

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29										
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
P May FY2021 Status Schedule																																	
P.01 PPU Project Management																																	
P112100	PPU Project Start	01-Oct-15 A		01-Oct-15		100%	0	\$0	Mark Champion																								
P112MCD01	CD1 Approve Alternative Selection and Cost Range (ESAAB) (04-Apr-18)		04-Apr-18 A		04-Apr-18	100%	0	\$0	Mark Champion			◆																					
P112MCD01FA	CD1 Funds Available (04-May-18)		04-May-18 A		04-May-18	100%	0	\$0	Mark Champion			◆																					
P112MCD012	CD3a Review (8-Aug-18)		08-Aug-18 A		08-Aug-18	100%	0	\$0	Mark Champion			◆																					
P112MCD013a	CD3A Approve Long Lead Procurement (ESAAB)		05-Oct-18 A		05-Oct-18	100%	0	\$0	Mark Champion			◆																					
P112MCD3B10	CD3B Review (4-Jun-19 - 6-Jun-19)		06-Jun-19 A		06-Jun-19	100%	0	\$0	Mark Champion				◆																				
P112MCD3B2FA	CD3B Approve Long Lead Procurement (ESAAB)		03-Sep-19 A		03-Sep-19	100%	0	\$0	Mark Champion				◆																				
P112MCD3FA10	CD2/3 Review (14-Jul-20 - 17-Jul-20)		17-Jul-20 A		17-Jul-20	100%	0	\$0	Mark Champion					◆																			
P112MCD3FA	CD2/3 Approve Performance Baseline and Start of Construction (ESAAB) (16-Oct-20)		06-Oct-20 A		06-Oct-20	100%	0	\$0	Mark Champion					◆																			
P112MSKPP5	KPP #5 Number of PPU Installed Cryomodules Complete		26-Mar-24		26-Mar-24	0%	0	\$0	Mark Champion										◆														
P112MSKPP2	Demonstrate KPP #2 Beam Energy Complete		08-Jul-24		08-Jul-24	0%	0	\$0	Mark Champion										◆														
P112MSKPP4	Demonstrate KPP #4 Stored Beam Intensity in Ring Complete		08-Jul-24		08-Jul-24	0%	0	\$0	Mark Champion										◆														
P112MSKPP1	Demonstrate KPP #1 Beam Power on Target Complete		17-Jul-24		17-Jul-24	0%	0	\$0	Mark Champion										◆														
P112MSKPP3	Demonstrate KPP #3 Target Operational Time without Failure Complete		20-Sep-24		20-Sep-24	0%	0	\$0	Mark Champion										◆														
P112MCD405	Verify Achievement of Key Performance Parameters/Project Completion Criteria	23-Sep-24	18-Oct-24	23-Sep-24	18-Oct-24	0%	20	\$0	Mark Champion										◆														
P112MCD440	FPD Prepare PPU Final Closeout Report (SVT)	04-Nov-24	12-Feb-25	04-Nov-24	12-Feb-25	0%	60	\$0	Mark Champion										◆														
P112MCD480	Start Conventional Facilities Site Prep (CF01012020 in STS schedule)	30-Dec-24*		30-Dec-24		0%	0	\$0	Mark Champion										◆														
P112MCD04_EF	CD-4 Early Finish		12-Feb-25		12-Feb-25	0%	0	\$0	Mark Champion										◆														
P112MCD430	CD-4 ESAAB Approval		12-Feb-25*		12-Feb-25	0%	0	\$0	Mark Champion										◆														
P112MCD04_SC	CD-4 Schedule Contingency	13-Feb-25	31-Jul-28	13-Feb-25	31-Jul-28	0%	848	\$0	Mark Champion										◆														
P112MCD460	FPD Finalize PARS II Information (SVT)	13-Feb-25	13-Feb-25	13-Feb-25	13-Feb-25	0%	1	\$0	Mark Champion										◆														
P112MCD470	Submit Financial Closeout Documentation		13-Feb-25		13-Feb-25	0%	0	\$0	Mark Champion										◆														
P112MCD450	FPD Submits PPU Lessons Learned Report		24-Feb-25		24-Feb-25	0%	0	\$0	Mark Champion										◆														
P112200	PPU Project Complete		31-Jul-28		31-Jul-28	0%	0	\$0	Mark Champion														◆										
P112MCD04_LF	CD4 Approve Project Completion (Level 0 Milestone)		31-Jul-28		31-Jul-28	0%	0	\$0	Mark Champion														◆										
P.01.01 Project Management																																	
P1116Start	FY16 Start	01-Oct-15 A		01-Oct-15		100%	0	\$0	Mark Champion																								
P1117Start	FY17 Start	03-Oct-16 A		03-Oct-16		100%	0	\$0	Mark Champion	◆																							
P1118Start	FY18 Start	02-Oct-17 A		02-Oct-17		100%	0	\$0	Mark Champion		◆																						
P1118WS	CY2017 Winter Outage Start (Outage 1)	22-Dec-17 A		22-Dec-17		100%	0	\$0	Mark Champion			◆																					
P1118WF	CY2017 Winter Outage Finish (Outage 1)		14-May-18 A		14-May-18	100%	0	\$0	Mark Champion			◆																					

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P1118SS	CY2018 Summer Outage Start (Outage 2)	06-Aug-18 A		06-Aug-18		100%	0	\$0	Mark Champion			◆											
P1118SF	CY2018 Summer Outage Finish (Outage 2)		20-Aug-18 A		20-Aug-18	100%	0	\$0	Mark Champion			◆											
P1119Start	FY19 Start	01-Oct-18 A		01-Oct-18		100%	0	\$0	Mark Champion			◆											
P1119WS	CY2018 Winter Outage Start (FY19A) - 11/21/18	15-Nov-18 A		15-Nov-18		100%	0	\$0	Mark Champion			◆											
P1119WF	CY2019 Winter Outage Finish (FY19A) - 1/9/19		08-Jan-19 A		08-Jan-19	100%	0	\$0	Mark Champion			◆											
P1119SPS	CY2019 Spring Outage Start (FY19B) - 4/8/19	27-Mar-19 A		27-Mar-19		100%	0	\$0	Mark Champion			◆											
P1119SPF	CY2019 Spring Outage Finish (FY19B) - 4/25/19		21-Jun-19 A		21-Jun-19	100%	0	\$0	Mark Champion			◆											
P1120Start	FY20 Start	01-Oct-19 A		01-Oct-19		100%	0	\$0	Mark Champion			◆											
P1120WS	CY2019 Winter Outage Start (FY20A) - 10/2/19	02-Oct-19 A		02-Oct-19		100%	0	\$0	Mark Champion			◆											
P1120WF	CY2019 Winter Outage Finish (FY20A) - 11/5/19		01-Nov-19 A		01-Nov-19	100%	0	\$0	Mark Champion			◆											
P1120SPS	Outage Start (FY20B) - 2/21/20	21-Feb-20 A		21-Feb-20		100%	0	\$0	Mark Champion			◆											
P1120SPF	Outage Finish (FY20B) - 3/27/20		27-Mar-20 A		27-Mar-20	100%	0	\$0	Mark Champion			◆											
P1120SS	Outage Start (FY20C) - 7/17/20	17-Jul-20 A		17-Jul-20		100%	0	\$0	Mark Champion			◆											
P1120SF	Outage Finish (FY20C) - 8/10/20		10-Aug-20 A		10-Aug-20	100%	0	\$0	Mark Champion			◆											
P1121WS	Outage Start (FY21A) - 11/28/20	28-Nov-20 A		28-Nov-20		100%	0	\$0	Mark Champion			◆											
P1121WF	Outage Finish (FY21A) - 2/1/21		01-Feb-21 A		01-Feb-21	100%	0	\$0	Mark Champion			◆											
P1121SPS	Outage Start (FY21B) - 6/1/21	01-Jun-21*		01-Jun-21		0%	0	\$0	Mark Champion				◆										
P1121SPF	Outage Finish (FY21B) - 7/2/21		02-Jul-21*		02-Jul-21	0%	0	\$0	Mark Champion				◆										
P1121SS	Outage Start (FY22A)	22-Oct-21*		22-Oct-21		0%	0	\$0	Mark Champion				◆										
P1121SF	Outage Finish (FY22A)		21-Dec-21*		21-Dec-21	0%	0	\$0	Mark Champion				◆										
P1122WS	Outage Start (FY22B)	21-Mar-22*		21-Mar-22		0%	0	\$0	Mark Champion				◆										
P1122WF	Outage Finish (FY22B)		16-May-22*		16-May-22	0%	0	\$0	Mark Champion				◆										
P1122SS	Outage Start (FY22C)	08-Aug-22*		08-Aug-22		0%	0	\$0	Mark Champion				◆										
P1122SF	Outage Finish (FY22C)		17-Oct-22*		17-Oct-22	0%	0	\$0	Mark Champion				◆										
P1123SS_RDY	Equipment Ready for Installation Extended Outage (Outage FY23B)	14-Dec-22	30-Jan-23	14-Dec-22	30-Jan-23	0%	26	\$0	Mark Champion									■					
P1123WS	Extended Outage Start (FY23A)	01-Feb-23*		01-Feb-23		0%	0	\$0	Mark Champion									◆					
P1123WF	Extended Outage Finish (FY23A)		02-Oct-23*		02-Oct-23	0%	0	\$0	Mark Champion										◆				
P1124WS	Outage Start (FY24A)	11-Mar-24*		11-Mar-24		0%	0	\$0	Mark Champion											◆			
P1124WF	Outage Finish (FY24A)		20-May-24*		20-May-24	0%	0	\$0	Mark Champion											◆			
P1124End	Project Support Complete		27-Aug-24		27-Aug-24	0%	0	\$0	Mark Champion												◆		
P01.01.01	Management	03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$3,232,833															
P111M1	PPU Project Director FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Champion														
P111M161	PPU Project Manager FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Champion														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016 - FY2028																											
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P111M126	Management consultant FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Champion																												
P111M201	Computers et al for project staff- FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Champion																												
P111M300	PPU Project Director FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												
P111M290	PPU Project Manager FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												
P111M295	Project director/project manager/L2 WBS mngr travel FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												
P111M305	Project director presentations at conferences/professional society meetings FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												
P111M285	Management consultant FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												
P111P310	Computers et al for project staff- FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												
P111M71	Project director presentations at conferences/professional society meetings FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion																												
P111M166	PPU Project Manager FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion																												
P111M131	Management consultant FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion																												
P111M6	PPU Project Director FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion																												
P111P206	Computers et al for project staff- FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion																												
P111M41	Project director/project manager/L2 WBS mngr travel FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion																												
P111M81	Project Management - FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Mark Champion																												
P111M136	Management Consultant - FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Mark Champion																												
P111M81B	Project Management - FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Mark Champion																												
P111M136B	Management Consultant - FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Mark Champion																												
P111M81C	Project Management - FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Mark Champion																												
P111M136C	Management Consultant - FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Mark Champion																												
P111M91	Project Management - FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Mark Champion																												
P111M141	Management Consultant - FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Mark Champion																												
P111M90	Management Consultant - FY20 - BA	01-Oct-19 A	01-Oct-19 A	01-Oct-19	01-Oct-19	100%	0	\$0	Mark Champion																												
P111M325	I&C Management - FY20 (LOE)	25-Nov-19 A	31-Mar-20 A	25-Nov-19	31-Mar-20	100%	0	\$0	Mark Champion																												
P111M91B	Project Management - FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Mark Champion																												
P111M141B	Management Consultant - FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Mark Champion																												
P111M325B	I&C Management - FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Mark Champion																												
P111M101	Project Management - FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Mark Champion																												
P111M335	I&C Management - FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Mark Champion																												
P111M146	Management Consultant - FY21 (LOE)	02-Oct-20 A	30-Oct-20 A	02-Oct-20	30-Oct-20	100%	0	\$0	Mark Champion																												
P111M142	Design - Condition RATS II for Storage Space	02-Nov-20 A	30-Nov-20 A	01-Dec-20	14-Dec-20	100%	0	\$18,869	Mark Champion																												
P111M144	Procure Materials for Conditioned Storage Space	02-Nov-20 A	02-Nov-20 A	15-Dec-20	15-Dec-20	100%	0	\$56,038	Mark Champion																												
P111M101B	Project Management - FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$407,751	Mark Champion																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Breakdown																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P111M335B	I&C Management - FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$65,074	Mark Champion																												
P111M146B	Management Consultant - FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$57,003	Mark Champion																												
P111M160	Move Equipment from Temporary Storage Space - FY21 (LOE)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$107,917	Mark Champion																												
P111M405	Condition RATS II for Storage Space	25-Jan-21 A	30-Jun-21	16-Dec-20	29-Jan-21	95%	22	\$25,288	Mark Champion																												
P111M143	Complete Condition RATS II for Storage Space	01-Mar-21 A	30-Jun-21	01-Feb-21	26-Feb-21	95%	22	\$300,084	Mark Champion																												
P111M145	Management Consultant - FY21- BA	01-Jun-21*	01-Jun-21	22-Feb-21	22-Feb-21	0%	1	\$0	Mark Champion																												
P111M315	Management Consultant - FY22- BA	02-Jun-21	02-Jun-21	23-Feb-21	23-Feb-21	0%	1	\$0	Mark Champion																												
P111M147	Management Consultant - FY21 Part 2 (LOE)	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$39,350	Mark Champion																												
P111M103	Project Management - FY21 (LOE) - Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$20,475	Mark Champion																												
P111M111	Project Management - FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$481,023	Mark Champion																												
P111M151	Management Consultant FY22 (LOE)	01-Oct-21	29-Sep-22	01-Oct-21	29-Sep-22	0%	246	\$101,932	Mark Champion																												
P111M345	I&C Management - FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$90,813	Mark Champion																												
P111M165	Move Equipment from Temporary Storage Space - FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$69,153	Mark Champion																												
P111M155	Management Consultant - FY23- BA	30-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22	0%	1	\$0	Mark Champion																												
P111M156	Management Consultant FY23 (LOE)	03-Oct-22	28-Sep-23	03-Oct-22	28-Sep-23	0%	244	\$105,044	Mark Champion																												
P111M121	Project Management - FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$500,093	Mark Champion																												
P111M355	I&C Management - FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$56,656	Mark Champion																												
P111M170	Move Equipment from Temporary Storage Space - FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$23,709	Mark Champion																												
P111M240	Management Consultant - FY24- BA	29-Sep-23	29-Sep-23	29-Sep-23	29-Sep-23	0%	1	\$0	Mark Champion																												
P111M275	Project Management - FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$423,565	Mark Champion																												
P111M245	Management Consultant FY24 (LOE)	02-Oct-23	27-Sep-24	02-Oct-23	27-Sep-24	0%	246	\$86,582	Mark Champion																												
P111M365	I&C Management - FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$19,639	Mark Champion																												
P111M175	Move Equipment from Temporary Storage Space - FY24 (LOE)	02-Oct-23	01-Oct-24	02-Oct-23	01-Oct-24	0%	247	\$9,039	Mark Champion																												
P111M393	Management Consultant - FY25- BA	30-Sep-24	30-Sep-24	30-Sep-24	30-Sep-24	0%	1	\$0	Mark Champion																												
P111M375	Project Management - FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$137,339	Mark Champion																												
P111M385	I&C Management - FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$6,733	Mark Champion																												
P111M395	Management Consultant FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$14,239	Mark Champion																												
P111M180	Move Equipment from Temporary Storage Space - FY25 (LOE)	01-Oct-24	06-Jan-25	01-Oct-24	06-Jan-25	0%	57	\$9,425	Mark Champion																												
P01.01.02 Project Reviews		03-Oct-16 A	13-Nov-24	03-Oct-16	13-Nov-24		833	\$144,802																													
P112M36	FY17 OPA Review	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Champion																												
P112M1	FY17 Directors Review	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Champion																												
P112M80	FY18 Directors Reviews (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												
P112M75	FY18 OPA Reviews (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Champion																												



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P112M6	FY18 Directors Reviews (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion															
P112M41	FY18 OPA Reviews (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Champion															
P112M11	FY19 Reviews (LOE)	04-Jun-19 A	30-Aug-19 A	04-Jun-19	30-Aug-19	100%	0	\$0	Mark Champion															
P112M16	FY20 Reviews (LOE)	14-Jul-20 A	24-Jul-20 A	14-Jul-20	24-Jul-20	100%	0	\$0	Mark Champion															
P112M21	FY21 Reviews (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Mark Champion															
P112M21B	FY21 Reviews (LOE) - Continued	06-Jul-21*	30-Sep-21	06-Jul-21	30-Sep-21	0%	62	\$34,790	Mark Champion															
P112M26	FY22 Reviews (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$35,787	Mark Champion															
P112M31	FY23 Reviews (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$36,701	Mark Champion															
P112M71	FY24 Reviews (LOE)	02-Oct-23	27-Aug-24	02-Oct-23	27-Aug-24	0%	224	\$6,910	Mark Champion															
P112M90	Prepare PPU Draft Closeout Report	21-Oct-24	01-Nov-24	21-Oct-24	01-Nov-24	0%	10	\$10,031	Mark Champion															
P112M95	Prepare for Independent Project Review for PPU CD-4	21-Oct-24	08-Nov-24	21-Oct-24	08-Nov-24	0%	15	\$17,034	Mark Champion															
P112MCD420	Conduct Independent Project Review for PPU CD-4	11-Nov-24	13-Nov-24	11-Nov-24	13-Nov-24	0%	3	\$3,548	Mark Champion															
<b>P01.02 Project Support</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$10,757,675																
<b>P01.02.01 Project Controls</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$6,340,454																
P121M41	Installation Planner/Coordinator FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Wayne Steffey															
P121M1	Project Controls FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Wayne Steffey															
P121M105	Project Controls FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey															
P121M100	Installation Planner/Coordinator FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey															
P121M110	Staff presentations, participation at conferences, professional society mtgs, project reviews FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey															
P121M46	Installation Planner/Coordinator FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey															
P121M60	Staff presentations, participation at conferences, professional society mtgs, project reviews FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey															
P121M6	Project Controls FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey															
P121M51	Installation Planner/Coordinator FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey															
P121M11	Project Controls FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey															
P121M93	Risk Workshop FY19 (LOE)	10-Jan-19 A	10-Jan-19 A	10-Jan-19	10-Jan-19	100%	0	\$0	Wayne Steffey															
P121M95	Complete Risk Workshop		10-Jan-19 A		10-Jan-19	100%	0	\$0	Wayne Steffey															
P121M11B	Project Controls FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Wayne Steffey															
P121M11C	Project Controls FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Wayne Steffey															
P121M16	Project Controls FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Wayne Steffey															
P121M16B	Project Controls FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Wayne Steffey															
P121M120	Project Controls FY20 Software (LOE)	02-Sep-20 A	30-Sep-20 A	02-Sep-20	30-Sep-20	100%	0	\$0	Wayne Steffey															
P121M21	Project Controls FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey															
P121M21B	Project Controls FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$1,323,064	Wayne Steffey															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P121M23	Project Controls FY21 (LOE) - Travel and Software	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$24,856	Wayne Steffey															
P121M26	Project Controls FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$1,499,136	Wayne Steffey															
P121M31	Project Controls FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$1,548,887	Wayne Steffey															
P121M36	Project Controls FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$1,597,758	Wayne Steffey															
P121M40	Project Controls FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$346,754	Wayne Steffey															
<b>P01.02.03 Procurement</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$97,672																
P123M1	Procurement Support FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Wayne Steffey															
P123M35	Procurement Support FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey															
P123M6	Procurement Support FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey															
P123M11	Procurement Support FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey															
P123M11B	Procurement Support FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Wayne Steffey															
P123M11C	Procurement Support FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Wayne Steffey															
P123M16	Procurement Support FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Wayne Steffey															
P123M16B	Procurement Support FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Wayne Steffey															
P123M21	Procurement Support FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey															
P123M21B	Procurement Support FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$36,536	Wayne Steffey															
P123M26	Procurement Support FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$27,600	Wayne Steffey															
P123M31	Procurement Support FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$14,393	Wayne Steffey															
P123M40	Procurement Support FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$15,012	Wayne Steffey															
P123M50	Procurement Support FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$4,130	Wayne Steffey															
<b>P01.02.04 HR / Recruitment</b>		03-Oct-16 A	30-Aug-19 A	03-Oct-16	30-Aug-19		0	\$0																
P124M1	HR Support FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Wayne Steffey															
P124M40	HR Support FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey															
P124M6	HR Support FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey															
P124M35	HR Support FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey															
P124M35B	HR Support FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Wayne Steffey															
<b>P01.02.05 Communications</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$261,657																
P125M1	Communication/PR FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Wayne Steffey															
P125M40	Communication/PR FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey															
P125M6	Communication/PR FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey															
P125M11	Communication/PR FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey															
P125M11B	Communication/PR FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Wayne Steffey															
P125M11C	Communication/PR FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Wayne Steffey															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P125M16	Communication/PR FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Wayne Steffey																						
P125M16B	Communication/PR FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Wayne Steffey																						
P125M21	Communication/PR FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey																						
P125M21B	Communication/PR FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$56,410	Wayne Steffey																						
P125M26	Communication/PR FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$62,615	Wayne Steffey																						
P125M31	Communication/PR FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$64,805	Wayne Steffey																						
P125M36	Communication/PR FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$67,110	Wayne Steffey																						
P125M50	Communication/PR FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$10,717	Wayne Steffey																						
<b>P01.02.06 Systems Engineering</b>		<b>03-Oct-16 A</b>	<b>11-Feb-25</b>	<b>03-Oct-16</b>	<b>11-Feb-25</b>		<b>908</b>	<b>\$886,847</b>																							
P126M1	Interface Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Wayne Steffey																						
P126M45	Interface Management FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey																						
P126M6	Interface Management FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey																						
P126M11	Interface Management FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey																						
P126M11B	Interface Management FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Wayne Steffey																						
P126M11C	Interface Management FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Wayne Steffey																						
P126M16	Interface Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Wayne Steffey																						
P126M16B	Interface Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Wayne Steffey																						
P126M21	Interface Management FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey																						
P126M21B	Interface Management FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$179,525	Wayne Steffey																						
P126M26	Interface Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$202,348	Wayne Steffey																						
P126M31	Interface Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$210,474	Wayne Steffey																						
P126M36	Interface Management FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$218,919	Wayne Steffey																						
P126M55	Interface Management FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$75,582	Wayne Steffey																						
<b>P01.02.07 Technical Director</b>		<b>03-Oct-16 A</b>	<b>11-Feb-25</b>	<b>03-Oct-16</b>	<b>11-Feb-25</b>		<b>908</b>	<b>\$347,841</b>																							
P127M1	Technical Advisor FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Wayne Steffey																						
P127M45	Technical Advisor FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey																						
P127M6	Technical Advisor FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey																						
P127M11	Technical Advisor FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey																						
P127M11B	Technical Advisor FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Wayne Steffey																						
P127M11C	Technical Advisor FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Wayne Steffey																						
P127M16	Technical Advisor FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Wayne Steffey																						
P127M16B	Technical Advisor FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Wayne Steffey																						
P127M21	Technical Advisor FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey																						

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Schedule																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P127M21B	Technical Advisor FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$72,062	Wayne Steffey																												
P127M26	Technical Advisor FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$81,103	Wayne Steffey																												
P127M31	Technical Advisor FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$84,361	Wayne Steffey																												
P127M36	Technical Advisor FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$87,746	Wayne Steffey																												
P127M55	Technical Advisor FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$22,570	Wayne Steffey																												
<b>P01.02.08 Installation Coordination</b>		02-Oct-17 A	11-Feb-25	02-Oct-17	11-Feb-25		908	\$2,823,205																													
P128M40	Installation Manager FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Wayne Steffey																												
P128M5	Installation Manager FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Wayne Steffey																												
P128M10	Installation Manager FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Wayne Steffey																												
P128M10B	Installation Manager FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Wayne Steffey																												
P128M10C	Installation Manager FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Wayne Steffey																												
P128M70	Reconfigure On-site Storage Space (LOE)	16-Sep-19 A	03-Feb-20 A	16-Sep-19	03-Feb-20	100%	0	\$0	Wayne Steffey																												
P128M15	Installation Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Wayne Steffey																												
P128M17	Building Information Modeling FY20 (LOE)	27-Jan-20 A	31-Mar-20 A	27-Jan-20	31-Mar-20	100%	0	\$0	Wayne Steffey																												
P128M80	Installation Contractor Bond FY20 (LOE)	25-Feb-20 A	25-Feb-20 A	25-Feb-20	25-Feb-20	100%	0	\$0	Wayne Steffey																												
P128M15B	Installation Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Wayne Steffey																												
P128M17B	Building Information Modeling FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Wayne Steffey																												
P128M85	Installation Contractor FY20 (LOE)	20-Jul-20 A	30-Sep-20 A	20-Jul-20	30-Sep-20	100%	0	\$0	Wayne Steffey																												
P128M20	Installation Management FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey																												
P128M50	Transportation to and from Storage and SNS FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey																												
P128M90	Installation Contractor FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Wayne Steffey																												
P128M90B	Installation Contractor FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$474,989	Wayne Steffey																												
P128M20B	Installation Management FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$641,469	Wayne Steffey																												
P128M25	Installation Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$589,128	Wayne Steffey																												
P128M100	Installation Contractor FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$472,909	Wayne Steffey																												
P128M30	Installation Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$340,420	Wayne Steffey																												
P128M110	Installation Contractor FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$138,585	Wayne Steffey																												
P128M35	Installation Management FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$140,685	Wayne Steffey																												
P128M120	Installation Contractor FY24 (LOE)	02-Oct-23	26-Mar-24	02-Oct-23	26-Mar-24	0%	118	\$6,890	Wayne Steffey																												
P128M37	Installation Management FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$18,130	Wayne Steffey																												
<b>P01.03 ESH&amp;Q</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$2,035,280																													
<b>P01.03.01 ESH</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$1,337,816																													
P131M36	Preparation of NEPA documentation and PHAR- FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Sam McKenzie																												



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Breakdown																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P131M1	ESH FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Sam McKenzie	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
P131M105	ESH FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Sam McKenzie																												
P131M100	Finalize HAR- FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Sam McKenzie																												
P131M115	USI Safety Evaluations for CD-2 FY18	04-Apr-18 A	28-Sep-18 A	04-Apr-18	28-Sep-18	100%	0	\$0	Sam McKenzie																												
P131M6	ESH FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Sam McKenzie																												
P131M46	Finalize HAR- FY18 (May to Aug 2019) - Part 1	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Sam McKenzie																												
P131M86	Complete USI due to increased hydrogen inventory of cryogenic moderator system - Part 1	02-Jul-18 A	28-Sep-18 A	02-Jul-18	28-Sep-18	100%	0	\$0	Sam McKenzie																												
P131M91	Complete USI due to the effect of the increased beam energy on target radionuclide inventory	02-Jul-18 A	28-Sep-18 A	02-Jul-18	28-Sep-18	100%	0	\$0	Sam McKenzie																												
P131M96	Complete USI due to the effect of increased energy on the heat deposition distribution on the target vessel - Part 1	02-Jul-18 A	28-Sep-18 A	02-Jul-18	28-Sep-18	100%	0	\$0	Sam McKenzie																												
P131M81	Complete USI due to addition of significant flow of helium into the mercury loop - Part 1	02-Jul-18 A	28-Sep-18 A	02-Jul-18	28-Sep-18	100%	0	\$0	Sam McKenzie																												
P131M86B	Complete USI due to increased hydrogen inventory of cryogenic moderator system - Continued	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Sam McKenzie																												
P131M96B	Complete USI due to the effect of increased energy on the heat deposition distribution on the target vessel - Cont Pt 2	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Sam McKenzie																												
P131M81B	Complete USI due to addition of significant flow of helium into the mercury loop - Continued Pt 2	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Sam McKenzie																												
P131M11	ESH FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Sam McKenzie																												
P131M120	USI Safety Evaluations for CD-2/3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Sam McKenzie																												
P131M96C	Complete USI due to the effect of increased energy on the heat deposition distribution on the target vessel - Cont pt 3	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Sam McKenzie																												
P131M81C	Complete USI due to addition of significant flow of helium into the mercury loop - Continued Pt 3	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Sam McKenzie																												
P131M120B	USI Safety Evaluations for CD-2 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Sam McKenzie																												
P131M11B	ESH FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Sam McKenzie																												
P131M12	ESH&Q Management Support (LOE) - FY19	02-Jul-19 A	30-Aug-19 A	02-Jul-19	30-Aug-19	100%	0	\$0	Sam McKenzie																												
P131M11C	ESH FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Sam McKenzie																												
P131M12B	ESH&Q Management Support (LOE) - FY19 Continued	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Sam McKenzie																												
P131M96D	Complete USI due to the effect of increased energy on the heat deposition distribution on the target vessel - Cont Pt 4	03-Sep-19 A	14-Feb-20 A	03-Sep-19	14-Feb-20	100%	0	\$0	Sam McKenzie																												
P131M81D	Complete USI due to addition of significant flow of helium into the mercury loop - Continued Pt 4	03-Sep-19 A	14-Feb-20 A	03-Sep-19	14-Feb-20	100%	0	\$0	Sam McKenzie																												
P131M120C	USI Safety Evaluations for CD-2 (LOE) - Continued Part 3	03-Sep-19 A	20-Dec-19 A	03-Sep-19	20-Dec-19	100%	0	\$0	Sam McKenzie																												
P131M16	ESH FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Sam McKenzie																												
P131M20	ESH&Q Management Support (LOE) - FY20	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Sam McKenzie																												
P131M46B	Finalize HAR for CD 2/3	17-Feb-20 A	31-Mar-20 A	17-Feb-20	31-Mar-20	100%	0	\$0	Sam McKenzie																												
P131M16B	ESH FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Sam McKenzie																												
P131M20B	ESH&Q Management Support (LOE) - FY20 - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Sam McKenzie																												
P131M46C	Finalize HAR for CD 2/3 - Continued	01-Apr-20 A	15-May-20 A	01-Apr-20	15-May-20	100%	0	\$0	Sam McKenzie																												
P131M125	Update USI Safety Evaluations (LOE)	18-May-20 A	30-Oct-20 A	18-May-20	30-Oct-20	100%	0	\$0	Sam McKenzie																												
P131M21	ESH FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Sam McKenzie																												



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P131M25	ESH&Q Management Support (LOE) - FY21	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Sam McKenzie														
P131M125B	Update USI Safety Evaluations (LOE) - Continued	02-Nov-20 A	30-Jun-21	02-Nov-20	27-Jan-21	86.08%	22	\$30,736	Sam McKenzie														
P131M21B	ESH FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$107,845	Sam McKenzie														
P131M25B	ESH&Q Management Support (LOE) - FY21 - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$138,089	Sam McKenzie														
P131M27	ESH&Q Management Support (LOE) - FY21 - Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$10,500	Sam McKenzie														
P131M26	ESH FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$121,496	Sam McKenzie														
P131M56	Prepare Update of SNS ASE & FSAD for Proton Facility (PF) and Neutron Facility (NF) (LOE) - FY22	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$134,624	Sam McKenzie														
P131M30	ESH&Q Management Support (LOE) - FY22	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$111,974	Sam McKenzie														
P131M60	Write BPLS USI Evaluation	18-Aug-22	08-Sep-22	09-Sep-22	29-Sep-22	0%	15	\$17,151	Sam McKenzie														
P131M48	Finalize HAR for Pre-Ops	18-Aug-22	15-Sep-22	09-Sep-22	06-Oct-22	0%	20	\$14,122	Sam McKenzie														
P131M31	ESH FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$126,264	Sam McKenzie														
P131M58	Prepare Update of SNS ASE & FSAD for PF and NF (LOE) - FY23	03-Oct-22	12-Oct-22	03-Oct-22	12-Oct-22	0%	8	\$26,606	Sam McKenzie														
P131M32	ESH&Q Management Support (LOE) - FY23	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$216,933	Sam McKenzie														
P131M66	Finalize FSAD SNS ASE & for PF and NF- FY23 (LOE)	13-Oct-22	10-Nov-22	13-Oct-22	10-Nov-22	0%	21	\$25,197	Sam McKenzie														
P131M70	Proton Facility (PF) and Neutron Facility (NF) - Facility Safety Assessment Document (FSAD) Updates Complete		10-Nov-22		10-Nov-22	0%	0	\$0	Sam McKenzie														
P131M35	ESH FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$131,215	Sam McKenzie														
P131M37	ESH&Q Management Support (LOE) - FY24	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$87,567	Sam McKenzie														
P131M39	ESH FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$22,478	Sam McKenzie														
P131M40	ESH&Q Management Support (LOE) - FY25	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$15,016	Sam McKenzie														
<b>P01.03.02 QA</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$697,464															
P132M1	QA FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Sam McKenzie														
P132M35	QA FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Sam McKenzie														
P132M6	QA FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Sam McKenzie														
P132M11	QA FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Sam McKenzie														
P132M11B	QA FY19 (LOE) - Continued Part 2	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Sam McKenzie														
P132M11C	QA FY19 (LOE) - Continued Part 3	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Sam McKenzie														
P132M16	QA FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Sam McKenzie														
P132M16B	QA FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Sam McKenzie														
P132M18	QA FY20 - Travel (LOE)	01-Sep-20 A	30-Sep-20 A	01-Sep-20	30-Sep-20	100%	0	\$0	Sam McKenzie														
P132M21	QA FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Sam McKenzie														
P132M21B	QA FY21 (LOE) - Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$191,993	Sam McKenzie														
P132M23	QA FY21 (LOE) - Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$18,375	Sam McKenzie														
P132M26	QA FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$220,187	Sam McKenzie														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P132M31	QA FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$145,855	Sam McKenzie																												
P132M40	QA FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$101,316	Sam McKenzie																												
P132M50	QA FY25 (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$19,738	Sam McKenzie																												
<b>P02 SCL Systems</b>		03-Oct-16 A	10-May-24	03-Oct-16	10-May-24		728	\$18,047,223																													
<b>P02.01 Management and System Integration</b>		03-Oct-16 A	10-May-24	03-Oct-16	10-May-24		728	\$399,597																													
<b>P02.01.01 Management and System Integration - SCL Systems</b>		03-Oct-16 A	10-May-24	03-Oct-16	10-May-24		728	\$399,597																													
P211M1	WBS P.2 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Matt Howell																												
P211M150	FY17 CM Estimates (Remaining balance on commitment for FNAL/JLAB estimate)	01-Mar-17 A	31-Mar-17 A	01-Mar-17	31-Mar-17	100%	0	\$0	Matt Howell																												
P211M140	WBS P.2 Management FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Matt Howell																												
P211M135	Travel to partner laboratory in FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Matt Howell																												
P211M270	Develop MPO with partner laboratory	05-Apr-18 A	26-Jun-18 A	05-Apr-18	26-Jun-18	100%	0	\$0	Matt Howell																												
P211M6	WBS P.2 Management FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Matt Howell																												
P211M275	Evaluate candidates for staff augmentation	07-May-18 A	24-Aug-18 A	07-May-18	24-Aug-18	100%	0	\$0	Matt Howell																												
P211M145	Transition Reference Design to Partner Lab FY18	23-May-18 A	28-Sep-18 A	23-May-18	28-Sep-18	100%	0	\$0	Matt Howell																												
P211M265	Prepare for CD-3A review	01-Jun-18 A	25-Jul-18 A	01-Jun-18	25-Jul-18	100%	0	\$0	Matt Howell																												
P211MS002	Begin pre-qualification effort for qualification cavities	01-Jun-18 A		01-Jun-18		100%	0	\$0	Matt Howell																												
P211MS003	Approve MPO with partner laboratory		20-Jun-18 A		20-Jun-18	100%	0	\$0	Matt Howell																												
P211MS001	Complete tasks for CD-3A review		25-Jul-18 A		25-Jul-18	100%	0	\$0	Matt Howell																												
P211MS004	Hire 1 engineer and 1 temporary designer to augment staff		24-Aug-18 A		24-Aug-18	100%	0	\$0	Matt Howell																												
P211M11	WBS P.2 Management FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																												
P211MS010	SCL Systems Final Design Review Complete		26-Mar-19 A		26-Mar-19	100%	0	\$0	Matt Howell																												
P211M280	SCL Systems Final Design Review	26-Mar-19 A	26-Mar-19 A	26-Mar-19	26-Mar-19	100%	0	\$0	Matt Howell																												
P211MS006	Award Contracts for all LLP Procurements		29-Mar-19 A		29-Mar-19	100%	0	\$0	Matt Howell																												
P211MS005	Final Design Complete		29-Mar-19 A		29-Mar-19	100%	0	\$0	Matt Howell																												
P211M11b	WBS P.2 Management FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																												
P211M11c	WBS P.2 Management FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Matt Howell																												
P211M16a	WBS P.2 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Matt Howell																												
P211M16b	WBS P.2 Management FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Matt Howell																												
P211M21a	WBS P.2 Management FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Matt Howell																												
P211M21b	WBS P.2 Management FY21 (LOE) continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$287,844	Matt Howell																												
P211M26	WBS P.2 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$62,048	Matt Howell																												
P02DOC1	P.02 SCL Documentation for IRR/ERR Phase 1 Complete		26-Jul-22		11-Jul-22	0%	0	\$0	Matt Howell																												
P211M31	WBS P.2 Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$37,770	Matt Howell																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P02IT1	P.02 SCL Integrated Systems Testing Phase 1 Complete		05-Oct-22		05-Oct-22	0%	0	\$0	Matt Howell															
P02DOC2	P.02 SCL Documentation for ARR Phase 2 Complete		03-Jan-23		15-Dec-22	0%	0	\$0	Matt Howell															
P02IT2	P.02 SCL Integrated Systems Testing Phase 2 Complete		19-Apr-23		03-May-23	0%	0	\$0	Matt Howell															
P02DOC3	P.02 SCL Documentation for IRR/ERR Phase 3 Complete		01-May-23		19-Apr-23	0%	0	\$0	Matt Howell															
P211M36	WBS P.2 Management FY24 - Closeout (LOE)	02-Oct-23	10-May-24	02-Oct-23	10-May-24	0%	150	\$11,934	Matt Howell															
P02IT3	P.02 SCL Integrated Systems Testing Phase 3 Complete		10-May-24		10-May-24	0%	0	\$0	Matt Howell															
P.02.02 Cavities		03-Oct-16 A	28-Jan-22	03-Oct-16	28-Jan-22		162	\$1,730,721																
P.02.02.01 Management and System Integration		03-Oct-16 A	27-Jan-22	03-Oct-16	27-Jan-22		161	\$107,716																
P.02.02.01.01 Management and System Integration - Cavities		03-Oct-16 A	27-Jan-22	03-Oct-16	27-Jan-22		161	\$107,716																
P221M1	WBS P.2.2 Management FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	John Mammoser															
P221M25	WBS P.2.2 Management FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	John Mammoser															
P221M6	WBS P.2.2 Management FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	John Mammoser															
P221M11	WBS P.2.2 Management FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	John Mammoser															
P221MS007	Contract for superconducting cavities awarded		21-Dec-18 A		21-Dec-18	100%	0	\$0	John Mammoser															
P221MS006	Contracts for all coupler components awarded		01-Feb-19 A		01-Feb-19	100%	0	\$0	John Mammoser															
P221M11b	WBS P.2.2 Management FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	John Mammoser															
P221M11c	WBS P.2.2 Management FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	John Mammoser															
P221M16a	WBS P.2.2 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	John Mammoser															
P221M16b	WBS P.2.2 Management FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	John Mammoser															
P221M21a	WBS P.2.2 Management FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	John Mammoser															
P221M65	DR Milestone - First Five Production Cavities Received		05-Oct-20 A		05-Oct-20	100%	0	\$0	John Mammoser															
P221M21b	WBS P.2.2 Management FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$81,141	John Mammoser															
P221M70	Last Five Production Cavities Received		26-Feb-21 A		12-Feb-21	100%	0	\$0	John Mammoser															
P221M75	WBS P.2.2 Management FY22 (LOE)	01-Oct-21	27-Jan-22	01-Oct-21	27-Jan-22	0%	75	\$26,575	John Mammoser															
P.02.02.02 Cavity Procurement		04-Jun-18 A	26-Feb-21 A	04-Jun-18	12-Feb-21		0	\$0																
P222MS001	First five cavities received		05-Oct-20 A		05-Oct-20	100%	0	\$0	John Mammoser															
P222MS006	Last five cavities received		26-Feb-21 A		12-Feb-21	100%	0	\$0	John Mammoser															
P.02.02.02.02 Design - Cavity Procurement		04-Jun-18 A	30-Jan-19 A	04-Jun-18	30-Jan-19		0	\$0																
P222D120	Preparation for Cavity procurement and vendor oversight (Jul - Sep)	02-Jul-18 A	28-Sep-18 A	02-Jul-18	28-Sep-18	100%	0	\$0	John Mammoser															
P222D125	Super conducting cavities, inner conductors and outer conductors FDR	02-Jul-18 A	10-Jul-18 A	02-Jul-18	10-Jul-18	100%	0	\$0	John Mammoser															
P222MS50	Cavity Final Design Complete		10-Jul-18 A		10-Jul-18	100%	0	\$0	John Mammoser															
P222D205	Engineering oversight of cavity vendor (Aug - Sep) (LOE)	08-Aug-18 A	01-Oct-18 A	08-Aug-18	01-Oct-18	100%	0	\$0	John Mammoser															
P222D140	Preparation for Cavity procurement and vendor oversight (Oct - Remain)	01-Oct-18 A	29-Oct-18 A	01-Oct-18	29-Oct-18	100%	0	\$0	John Mammoser															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P02.02.02.02.01 Superconducting Cavities (Qualified Cavity Development)		04-Jun-18 A	30-Jan-19 A	04-Jun-18	30-Jan-19		0	\$0																
P222P335	Prepare SOW and Tech Spec Qualified Cavity Development	04-Jun-18 A	05-Jun-18 A	04-Jun-18	05-Jun-18	100%	0	\$0	John Mammosser															
P222MS105	Technical Package to Procurement for Qualified Cavity Development		06-Jun-18 A		06-Jun-18	100%	0	\$0	John Mammosser															
P222P345	Procurement Review and Bid for Qualified Cavity Development	07-Jun-18 A	12-Jun-18 A	07-Jun-18	12-Jun-18	100%	0	\$0	John Mammosser															
P222MS110	Issue RFP for Qualified Cavity Development		12-Jun-18 A		12-Jun-18	100%	0	\$0	John Mammosser															
P222P350	Solicitation Period for Qualified Cavity Development	13-Jun-18 A	20-Jun-18 A	13-Jun-18	20-Jun-18	100%	0	\$0	John Mammosser															
P222MS115	Solicitation Complete for Qualified Cavity Development		21-Jun-18 A		21-Jun-18	100%	0	\$0	John Mammosser															
P222D13	Review and Award Contract for Qualified Cavity Development	22-Jun-18 A	27-Jun-18 A	22-Jun-18	27-Jun-18	100%	0	\$0	John Mammosser															
P222MS120	Award Contract for Qualified Cavity Development		27-Jun-18 A		27-Jun-18	100%	0	\$0	John Mammosser															
P222D135	Qualified Cavity Development (Receive) (Aug through Sep)	13-Aug-18 A	28-Sep-18 A	13-Aug-18	28-Sep-18	100%	0	\$0	John Mammosser															
P222D145	Qualified Cavity Development (Receive) Oct through Remain)	01-Oct-18 A	30-Jan-19 A	01-Oct-18	30-Jan-19	100%	0	\$0	John Mammosser															
P02.02.04 Cavity Reprocessing		01-Jun-21	06-Dec-21	02-Nov-20	17-Nov-21		131	\$108,247																
P02.02.04.03 Procure/Fab		01-Jun-21	06-Dec-21	02-Nov-20	17-Nov-21		131	\$108,247																
P222P565	Review and award contract for Reprocessing of Production Cavities	01-Jun-21	21-Jun-21	02-Nov-20	20-Nov-20	0%	15	\$462	John Mammosser															
P222MS013	Award Contract for Reprocessing of Production Cavities		21-Jun-21		20-Nov-20	0%	0	\$0	John Mammosser															
P222P445	Reprocessing of production cavities (Fabrication)	22-Jun-21	03-Dec-21	23-Nov-20	16-Nov-21	0%	115	\$0	John Mammosser															
P222P580	Oversight during reprocessing of production cavities	04-Nov-21	03-Dec-21	20-Oct-21	16-Nov-21	0%	20	\$55,245	John Mammosser															
P222P570	Reprocessing of production cavities (Receive)	06-Dec-21	06-Dec-21	17-Nov-21	17-Nov-21	0%	1	\$52,540	John Mammosser															
P02.02.05 Coupler Acquisition		10-Jul-18 A	20-Jul-21	10-Jul-18	09-Jul-21		35	\$219,584																
P02.02.05.02 Design - Coupler Acquisition		10-Jul-18 A	04-Dec-19 A	10-Jul-18	04-Dec-19		0	\$0																
P225MS100	Inner Coupler Final Design Complete		10-Jul-18 A		10-Jul-18	100%	0	\$0	John Mammosser															
P225MS105	Outer Coupler Final Design Complete		10-Jul-18 A		10-Jul-18	100%	0	\$0	John Mammosser															
P225D005	Coupler shipping analysis	16-Oct-18 A	20-Nov-18 A	16-Oct-18	20-Nov-18	100%	0	\$0	John Mammosser															
P225D010	Coupler shipping test in support of design	02-Jan-19 A	31-Mar-19 A	02-Jan-19	31-Mar-19	100%	0	\$0	John Mammosser															
P225D015	Coupler Shipping Hardware Design	02-Jan-19 A	29-Mar-19 A	02-Jan-19	29-Mar-19	100%	0	\$0	John Mammosser															
P225D010b	Coupler shipping test in support of design Continued	15-Apr-19 A	30-Aug-19 A	15-Apr-19	30-Aug-19	100%	0	\$0	John Mammosser															
P225D010c	Coupler shipping test in support of design (Sept 19 only)	02-Dec-19 A	04-Dec-19 A	02-Dec-19	04-Dec-19	100%	0	\$0	John Mammosser															
P225MS003	Coupler shipping test complete		04-Dec-19 A		04-Dec-19	100%	0	\$0	John Mammosser															
P02.02.05.05 Testing - Coupler Acquisition		02-Sep-19 A	20-Jul-21	02-Sep-19	09-Jul-21		35	\$219,584																
P02.02.05.05.01 Couplers 1-4		02-Sep-19 A	04-Dec-19 A	02-Sep-19	04-Dec-19		0	\$0																
P225I136	Bake Couplers 1-2	02-Sep-19 A	06-Sep-19 A	02-Sep-19	06-Sep-19	100%	0	\$0	John Mammosser															
P225I146	Condition Couplers 1-2	09-Sep-19 A	17-Sep-19 A	09-Sep-19	17-Sep-19	100%	0	\$0	John Mammosser															
P225I151	Bake Couplers 3-4	21-Oct-19 A	28-Oct-19 A	21-Oct-19	28-Oct-19	100%	0	\$0	John Mammosser															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P225156	Condition Couplers 3-4	02-Dec-19 A	03-Dec-19 A	02-Dec-19	03-Dec-19	100%	0	\$0	John Mammosser															
P225161	Ship Couplers 1-4 to JLAB	03-Dec-19 A	04-Dec-19 A	03-Dec-19	04-Dec-19	100%	0	\$0	John Mammosser															
<b>P02.02.05.05.02 Couplers 5-10</b>		<b>06-Jan-20 A</b>	<b>21-May-20 A</b>	<b>06-Jan-20</b>	<b>21-May-20</b>		<b>0</b>	<b>\$0</b>																
P225166	Bake Couplers 5-6	06-Jan-20 A	10-Jan-20 A	06-Jan-20	10-Jan-20	100%	0	\$0	John Mammosser															
P225171	Condition Couplers 5-6	13-Jan-20 A	17-Jan-20 A	13-Jan-20	17-Jan-20	100%	0	\$0	John Mammosser															
P225176	Bake Couplers 7-8	13-Mar-20 A	19-Mar-20 A	13-Mar-20	19-Mar-20	100%	0	\$0	John Mammosser															
P225191	Bake Couplers 9-10	18-Mar-20 A	25-Mar-20 A	18-Mar-20	25-Mar-20	100%	0	\$0	John Mammosser															
P225181	Condition Couplers 7-8	20-Mar-20 A	24-Mar-20 A	20-Mar-20	24-Mar-20	100%	0	\$0	John Mammosser															
P225196a	Condition Couplers 9-10	26-Mar-20 A	31-Mar-20 A	26-Mar-20	31-Mar-20	100%	0	\$0	John Mammosser															
P225196b	Condition Couplers 9-10 continued	18-May-20 A	21-May-20 A	18-May-20	21-May-20	100%	0	\$0	John Mammosser															
<b>P02.02.05.05.03 Couplers 11-14</b>		<b>01-Jun-20 A</b>	<b>19-Jun-20 A</b>	<b>01-Jun-20</b>	<b>19-Jun-20</b>		<b>0</b>	<b>\$0</b>																
P2251201	Bake Couplers 11-12	01-Jun-20 A	05-Jun-20 A	01-Jun-20	05-Jun-20	100%	0	\$0	John Mammosser															
P2251216	Bake Couplers 13-14	05-Jun-20 A	12-Jun-20 A	05-Jun-20	12-Jun-20	100%	0	\$0	John Mammosser															
P2251206	Condition Couplers 11-12	08-Jun-20 A	12-Jun-20 A	08-Jun-20	12-Jun-20	100%	0	\$0	John Mammosser															
P2251221	Condition Couplers 13-14	15-Jun-20 A	19-Jun-20 A	15-Jun-20	19-Jun-20	100%	0	\$0	John Mammosser															
<b>P02.02.05.05.04 Couplers 15-18</b>		<b>22-Jun-20 A</b>	<b>05-Feb-21 A</b>	<b>22-Jun-20</b>	<b>06-Nov-20</b>		<b>0</b>	<b>\$9,837</b>																
P2251226	Bake Couplers 15-16	22-Jun-20 A	26-Jun-20 A	22-Jun-20	26-Jun-20	100%	0	\$0	John Mammosser															
P2251231	Condition Couplers 15-16	01-Sep-20 A	15-Sep-20 A	01-Sep-20	15-Sep-20	100%	0	\$0	John Mammosser															
P2251241	Bake Couplers 17-18	01-Sep-20 A	15-Sep-20 A	01-Sep-20	15-Sep-20	100%	0	\$0	John Mammosser															
P2251246	Condition Couplers 17-18	16-Sep-20 A	29-Sep-20 A	16-Sep-20	29-Sep-20	100%	0	\$0	John Mammosser															
P2251236	Ship Couplers 15-18 to JLAB	01-Feb-21 A	05-Feb-21 A	02-Nov-20	06-Nov-20	100%	0	\$9,837	John Mammosser															
<b>P02.02.05.05.05 Couplers 19-22</b>		<b>03-May-21 A</b>	<b>21-Jun-21</b>	<b>23-Feb-21</b>	<b>29-Mar-21</b>		<b>15</b>	<b>\$70,120</b>																
P2251251	Bake Couplers 19-20	03-May-21 A	14-May-21 A	23-Feb-21	08-Mar-21	100%	0	\$3,590	John Mammosser															
P2251266	Bake Couplers 21-22	03-May-21 A	14-May-21 A	23-Feb-21	08-Mar-21	100%	0	\$3,283	John Mammosser															
P2251256	Condition Couplers 19-20	17-May-21 A	28-May-21 A	09-Mar-21	22-Mar-21	100%	0	\$26,705	John Mammosser															
P2251271	Condition Couplers 21-22	01-Jun-21	14-Jun-21	09-Mar-21	22-Mar-21	0%	10	\$26,705	John Mammosser															
P2251261	Ship Couplers 19-22 to JLAB	15-Jun-21	21-Jun-21	23-Mar-21	29-Mar-21	0%	5	\$9,837	John Mammosser															
<b>P02.02.05.05.06 Couplers 23-26</b>		<b>01-Jun-21</b>	<b>06-Jul-21</b>	<b>13-Apr-21</b>	<b>17-May-21</b>		<b>25</b>	<b>\$69,813</b>																
P2251291	Bake Couplers 25-26	01-Jun-21*	14-Jun-21	13-Apr-21	26-Apr-21	0%	10	\$3,283	John Mammosser															
P2251276	Bake Couplers 23-24	01-Jun-21*	14-Jun-21	13-Apr-21	26-Apr-21	0%	10	\$3,283	John Mammosser															
P2251296	Condition Couplers 25-26	15-Jun-21	28-Jun-21	27-Apr-21	10-May-21	0%	10	\$26,705	John Mammosser															
P2251281	Condition Couplers 23-24	15-Jun-21	28-Jun-21	27-Apr-21	10-May-21	0%	10	\$26,705	John Mammosser															
P2251286	Ship Couplers 23-26 to JLAB	29-Jun-21	06-Jul-21	11-May-21	17-May-21	0%	5	\$9,837	John Mammosser															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P02.02.05.05.07 Couplers 27-30		15-Jun-21	20-Jul-21	04-Jun-21	09-Jul-21		25	\$69,813															
P225I316	Bake Couplers 29-30	15-Jun-21*	28-Jun-21	04-Jun-21	17-Jun-21	0%	10	\$3,283	John Mammosser														
P225I301	Bake Couplers 27-28	15-Jun-21*	28-Jun-21	04-Jun-21	17-Jun-21	0%	10	\$3,283	John Mammosser														
P225I321	Condition Couplers 29-30	29-Jun-21	13-Jul-21	18-Jun-21	01-Jul-21	0%	10	\$26,705	John Mammosser														
P225I306	Condition Couplers 27-28	29-Jun-21	13-Jul-21	18-Jun-21	01-Jul-21	0%	10	\$26,705	John Mammosser														
P225I336	Ship Couplers 27-30 to JLAB	14-Jul-21	20-Jul-21	02-Jul-21	09-Jul-21	0%	5	\$9,837	John Mammosser														
P02.02.07 HTA Testing		05-Apr-18 A	21-Dec-21	05-Apr-18	24-May-21		120	\$306,208															
P02.02.07.02 Design -HTA Testing		05-Apr-18 A	02-Nov-18 A	05-Apr-18	02-Nov-18		0	\$0															
P227D5	Design improvements to HTA (Apr - Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	John Mammosser														
P227D10	Design improvements to HTA (Oct - Remain)	01-Oct-18 A	02-Nov-18 A	01-Oct-18	02-Nov-18	100%	0	\$0	John Mammosser														
P02.02.07.05 Testing - HTA Testing		01-Jul-21	21-Dec-21	18-Nov-20	24-May-21		120	\$306,208															
P227I36	Horizontal testing of first dressed HB cavity	01-Jul-21*	26-Aug-21	18-Nov-20	29-Jan-21	0%	40	\$100,278	John Mammosser														
P227I41	Horizontal testing of second dressed HB cavity	27-Aug-21	22-Oct-21	01-Feb-21	26-Mar-21	0%	40	\$101,813	John Mammosser														
P227I46	Horizontal testing of third dressed HB cavity	25-Oct-21	21-Dec-21	29-Mar-21	24-May-21	0%	40	\$104,117	John Mammosser														
P02.02.08 Coupler Waveguide Transition		07-Oct-20 A	28-Jan-22	07-Oct-20	28-Jan-22		162	\$988,967															
P02.02.08.03 Procure/Fab - Coupler Waveguide Transition		07-Oct-20 A	28-Jan-22	07-Oct-20	28-Jan-22		162	\$988,967															
P228P36a	Specifying components	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	John Mammosser														
P228P36b	Specifying components continued	01-Dec-20 A	03-Dec-20 A	02-Nov-20	03-Dec-20	100%	0	\$14,778	John Mammosser														
P228P81	Procure Flexible waveguide piece	04-Dec-20 A	14-Dec-20 A	04-Dec-20	14-Jan-21	100%	0	\$579	John Mammosser														
P228P101	Procure Gas barrier	04-Dec-20 A	17-Dec-20 A	04-Dec-20	14-Jan-21	100%	0	\$579	John Mammosser														
P228P86	Fabricate Flexible waveguide piece	15-Dec-20 A	23-Feb-21 A	15-Jan-21	26-Mar-21	100%	0	\$0	John Mammosser														
P228P106	Fabricate Gas barrier	15-Dec-20 A	23-Feb-21 A	15-Jan-21	26-Mar-21	100%	0	\$0	John Mammosser														
P228P131	Procure thermal couples	01-Feb-21 A	19-Feb-21 A	04-Dec-20	07-Jan-21	100%	0	\$462	John Mammosser														
P228P136	Fabricate thermal couples	22-Feb-21 A	01-Apr-21 A	08-Jan-21	19-Mar-21	100%	0	\$0	John Mammosser														
P228MS181	Fabrication of Gas barrier complete		23-Feb-21 A		26-Mar-21	100%	0	\$0	John Mammosser														
P228P166	Receive Flexible waveguide piece	24-Feb-21 A	24-Feb-21 A	29-Mar-21	29-Mar-21	100%	0	\$98,790	John Mammosser														
P228P181	Receive Gas barrier	24-Feb-21 A	24-Feb-21 A	29-Mar-21	29-Mar-21	100%	0	\$34,837	John Mammosser														
P228P91	Procure Waveguide Weldment	01-Mar-21 A	21-May-21 A	04-Dec-20	07-Jan-21	100%	0	\$462	John Mammosser														
P228P121	Procure Mounting hardware	01-Mar-21 A	28-May-21 A	04-Dec-20	14-Jan-21	100%	0	\$462	John Mammosser														
P228P41	Procure Door-knob Transition	01-Mar-21 A	21-May-21 A	04-Dec-20	07-Jan-21	100%	0	\$462	John Mammosser														
P228P151	Receive thermal couples	01-Apr-21 A	01-Apr-21 A	22-Mar-21	22-Mar-21	100%	0	\$1,849	John Mammosser														
P228P46	Fabricate Door-knob Transition	24-May-21 A	13-Jul-21	08-Jan-21	19-Mar-21	0%	30	\$0	John Mammosser														
P228P96	Fabricate Waveguide Weldment	24-May-21 A	27-Oct-21	08-Jan-21	07-Jul-21	0%	105	\$0	John Mammosser														

Table with columns: Activity ID, Activity Name, Start, Finish, BL Start, BL Finish, % Complete, Rem Dur, Budgeted Total Cost, CAM, and fiscal years FY2016-FY2028. It lists various activities such as 'Fabricate Mounting hardware', 'Inner Extension, Outer Extension, Waveguide Cover', and 'Cryomodule Integration' with their respective schedules and costs.



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29							
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P235D005b	Thermal Shield & MLI Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																					
P235D005c	Thermal Shield & MLI Design (Sept 19 only)	03-Sep-19 A	12-Dec-19 A	03-Sep-19	12-Dec-19	100%	0	\$0	Matt Howell																					
P02.03.01.01.06 Spaceframe Design																														
P236D005	Spaceframe Design	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																					
P236D005b	Spaceframe Design Continued	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Matt Howell																					
P02.03.01.01.07 Vacuum Vessel Design																														
P237D015	Vacuum Vessel Design	24-Aug-18 A	31-Mar-19 A	24-Aug-18	31-Mar-19	100%	0	\$0	Matt Howell																					
P237D015b	Vacuum Vessel Design Continued	01-Apr-19 A	16-Aug-19 A	01-Apr-19	16-Aug-19	100%	0	\$0	Matt Howell																					
P02.03.01.01.08 Supply End Can Design																														
P238D005	Supply End Can Design	22-Oct-18 A	31-Mar-19 A	22-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																					
P238D005b	Supply End Can Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																					
P238D005c	Supply End Can Design (Sept 19 only)	03-Sep-19 A	20-Sep-19 A	03-Sep-19	20-Sep-19	100%	0	\$0	Matt Howell																					
P02.03.01.01.09 Return End Can Design																														
P239D015	Return End Can Design	08-Oct-18 A	31-Mar-19 A	08-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																					
P239D015b	Return End Can Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																					
P239D015c	Return End Can Design (Sept 19 only)	01-Oct-19 A	31-Oct-19 A	01-Oct-19	31-Oct-19	100%	0	\$0	Matt Howell																					
P02.03.01.01.10 Instrumentation Design																														
P2310D015	Instrumentation Design	24-Aug-18 A	31-Mar-19 A	24-Aug-18	31-Mar-19	100%	0	\$0	Matt Howell																					
P2310D015b	Instrumentation Design Continued	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Matt Howell																					
P02.03.01.01.11 Tooling Design																														
P2311D005a	Tooling required for Cryomodule Builds Procurement	01-May-19 A	30-Aug-19 A	01-May-19	30-Aug-19	100%	0	\$0	Matt Howell																					
P2311D015a	Design of the End Can Support Tooling	01-May-19 A	30-Aug-19 A	01-May-19	30-Aug-19	100%	0	\$0	Matt Howell																					
P2311D005b	Tooling required for Cryomodule Builds Procurement (Sept 19 - Rem)	03-Sep-19 A	26-Mar-20 A	03-Sep-19	26-Mar-20	100%	0	\$0	Matt Howell																					
P2311D015b	Design of the End Can Support Tooling (Sept 19 - Rem)	03-Sep-19 A	27-Jan-20 A	03-Sep-19	27-Jan-20	100%	0	\$0	Matt Howell																					
P2311D020a	Modify Designs of Misc. Clean Room Tooling	01-Nov-19 A	31-Mar-20 A	01-Nov-19	31-Mar-20	100%	0	\$0	Matt Howell																					
P2311D020b	Modify Designs of Misc. Clean Room Tooling continued	01-Apr-20 A	29-May-20 A	01-Apr-20	29-May-20	100%	0	\$0	Matt Howell																					
P02.03.01.01.13 Magnetic Shielding Design																														
P2313D005	Magnetic Shielding Design	18-Oct-18 A	31-Mar-19 A	18-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																					
P2313D005b	Magnetic Shielding Design Continued	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Matt Howell																					
P02.03.01.01.15 Cleanroom String Assembly Design																														
P2315D020	Cleanroom String Assembly Design	24-Aug-18 A	31-Mar-19 A	24-Aug-18	31-Mar-19	100%	0	\$0	Matt Howell																					
P2315D020b	Cleanroom String Assembly Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																					
P2315D020c	Cleanroom String Assembly Design (Sept 19 only)	01-Oct-19 A	10-Oct-19 A	01-Oct-19	10-Oct-19	100%	0	\$0	Matt Howell																					

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016 - FY2028																																							
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
<b>P02.03.01.01.16 Cold Mass Assembly Design</b>																																																	
P2316D005	Cold Mass Assembly Design	15-Oct-18 A	31-Mar-19 A	15-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																																								
P2316D005b	Cold Mass Assembly Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																																								
P2316D005c	Cold Mass Assembly Design (Sept 19 only)	01-Oct-19 A	16-Oct-19 A	01-Oct-19	16-Oct-19	100%	0	\$0	Matt Howell																																								
<b>P02.03.01.01.17 Spaceframe Thermal Shield Assembly Design</b>																																																	
P2317D005	Spaceframe Thermal Shield Assembly Design	24-Oct-18 A	31-Mar-19 A	24-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																																								
P2317D005b	Spaceframe Thermal Shield Assembly Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																																								
P2317D005c	Spaceframe Thermal Shield Assembly Design (Sept 19 only)	03-Sep-19 A	18-Dec-19 A	03-Sep-19	18-Dec-19	100%	0	\$0	Matt Howell																																								
<b>P02.03.01.01.18 Final Cryomodule Assembly Design</b>																																																	
P2318D005	Final Cryomodule Assembly Design	23-Oct-18 A	31-Mar-19 A	23-Oct-18	31-Mar-19	100%	0	\$0	Matt Howell																																								
P2318D005b	Final Cryomodule Assembly Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Howell																																								
P2318D005c	Final Cryomodule Assembly Design (Sept 19 only)	03-Sep-19 A	13-Feb-20 A	03-Sep-19	13-Feb-20	100%	0	\$0	Matt Howell																																								
<b>P02.03.01.01.19 Shipping Design</b>																																																	
P2319D055	Shipping Design and Analysis Part 1	01-Apr-19 A	01-Jun-19 A	01-Apr-19	01-Jun-19	100%	0	\$0	Matt Howell																																								
P2319D055a	Shipping Design and Analysis Part 1a	03-Jun-19 A	01-Aug-19 A	03-Jun-19	01-Aug-19	100%	0	\$0	Matt Howell																																								
P2319D055b	Shipping Design and Analysis Part 2	02-Aug-19 A	30-Aug-19 A	02-Aug-19	30-Aug-19	100%	0	\$0	Matt Howell																																								
P2319D055c	Shipping Design and Analysis Part 2 (Sept & Oct 19 only)	03-Sep-19 A	02-Dec-19 A	03-Sep-19	02-Dec-19	100%	0	\$0	Matt Howell																																								
P2319D055b5	Shipping Tests Design	02-Dec-19 A	01-Feb-20 A	02-Dec-19	01-Feb-20	100%	0	\$0	Matt Howell																																								
P2319D060a	Shipping Tests Design Part 2	03-Feb-20 A	31-Mar-20 A	03-Feb-20	31-Mar-20	100%	0	\$0	Matt Howell																																								
P2319D060b	Shipping Tests Design Part 2 Continued	01-Apr-20 A	29-May-20 A	01-Apr-20	29-May-20	100%	0	\$0	Matt Howell																																								
<b>P02.03.01.04 Assemble &amp; Test</b>																																																	
P231M015a	JLab Proj Mgmt, Proj Controls, Procurement Support, Integration & Q&A - FY20	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Matt Howell																																								
P231M015b	JLab Proj Mgmt, Proj Controls, Procurement Support, Integration & Q&A - FY20 LOE	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Matt Howell																																								
P231M020a	JLab Proj Mgmt, Proj Controls, Procurement Support, Integration & Q&A - FY21 LOE	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Matt Howell																																								
P231M020b	JLab Proj Mgmt, Proj Controls, Procurement Support, Integration & Q&A - FY21 LOE Continued	02-Nov-20 A	30-Nov-20 A	02-Nov-20	30-Nov-20	100%	0	\$73,120	Matt Howell																																								
P231M020c	JLab Proj Mgmt, Proj Controls, Procurement Support, Integration & Q&A - FY21 LOE Continued	01-Dec-20 A	30-Sep-21	01-Dec-20	30-Sep-21	57.64%	86	\$783,654	Matt Howell																																								
P231M025	JLab Proj Mgmt, Proj Controls, Procurement Support, Integration & Q&A - FY22 LOE	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$808,056	Matt Howell																																								
P231M030	JLab Proj Mgmt, Proj Controls, Procurement Support, Integration & Q&A - FY23 LOE	03-Oct-22	21-Feb-23	03-Oct-22	21-Feb-23	0%	92	\$91,091	Matt Howell																																								
<b>P02.03.01.04.03 Cavity Preparation &amp; Testing</b>																																																	
P2314T130a	Weld & Cavity Qualification of Test Cavities	15-Oct-19 A	31-Mar-20 A	15-Oct-19	31-Mar-20	100%	0	\$0	Matt Howell																																								
P2314T130b	Weld & Cavity Qualification of Test Cavities continued	01-Apr-20 A	22-Sep-20 A	01-Apr-20	22-Sep-20	100%	0	\$0	Matt Howell																																								
P2314T345	Vendor Effort Fabrication of Amplifier for Cavity Testing	03-Jun-20 A	10-Nov-20 A	03-Jun-20	10-Nov-20	100%	0	\$0	Matt Howell																																								
P2314T025	Perform Cavity Qualification on CM-01 Cavity #1 Bare	07-Sep-20 A	02-Oct-20 A	07-Sep-20	02-Oct-20	100%	0	\$0	Matt Howell																																								



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2314T160	Mechanical Inspection of CM-01 Cavity #3	21-Sep-20 A	23-Sep-20 A	21-Sep-20	23-Sep-20	100%	0	\$0	Matt Howell														
P2314T155	Mechanical Inspection of CM-01 Cavity #2	02-Oct-20 A	06-Oct-20 A	02-Oct-20	06-Oct-20	100%	0	\$0	Matt Howell														
P2314T170	Perform Cavity Qualification on CM-01 Cavity #2 Bare	02-Oct-20 A	26-Oct-20 A	02-Oct-20	26-Oct-20	100%	0	\$0	Matt Howell														
P2314T020	Mechanical Inspection of CM-01 Cavity #1	07-Oct-20 A	09-Oct-20 A	07-Oct-20	09-Oct-20	100%	0	\$0	Matt Howell														
P2314T175a	Perform Cavity Qualification on CM-01 Cavity #3 Bare	12-Oct-20 A	30-Oct-20 A	12-Oct-20	30-Oct-20	100%	0	\$0	Matt Howell														
P2314T165a	Mechanical Inspection of CM-01 Cavity #4	26-Oct-20 A	30-Oct-20 A	26-Oct-20	30-Oct-20	100%	0	\$0	Matt Howell														
P2314T180a	Perform Cavity Qualification on CM-01 Cavity #4 Bare	26-Oct-20 A	30-Oct-20 A	26-Oct-20	30-Oct-20	100%	0	\$0	Matt Howell														
P2314T175b	Perform Cavity Qualification on CM-01 Cavity #3 Bare Continued	02-Nov-20 A	06-Nov-20 A	02-Nov-20	13-Nov-20	100%	0	\$19,718	Matt Howell														
P2314T165b	Mechanical Inspection of CM-01 Cavity #4 Continued	02-Nov-20 A	06-Nov-20 A	02-Nov-20	13-Nov-20	100%	0	\$855	Matt Howell														
P2314T180b	Perform Cavity Qualification on CM-01 Cavity #4 Bare	02-Nov-20 A	19-Nov-20 A	02-Nov-20	01-Dec-20	100%	0	\$19,718	Matt Howell														
P2314T350	Accept Vendor Effort Fabrication of Amplifier for Cavity Testing	16-Nov-20 A	16-Nov-20 A	11-Nov-20	11-Nov-20	100%	0	\$29,210	Matt Howell														
P2314T185	Weld Helium Vessel onto CM-01 Cavity #2	20-Nov-20 A	18-Dec-20 A	04-Nov-20	20-Nov-20	100%	0	\$2,394	Matt Howell														
P2314T030	Mechanical Inspection of CM-02 Cavities	20-Nov-20 A	18-Dec-20 A	16-Nov-20	01-Dec-20	100%	0	\$3,523	Matt Howell														
P2314T140	Weld Helium Vessel onto CM-01 Cavity #1	20-Nov-20 A	11-Dec-20 A	02-Nov-20	03-Nov-20	100%	0	\$2,394	Matt Howell														
P2314T190	Weld Helium Vessel onto CM-01 Cavity #3	20-Nov-20 A	23-Dec-20 A	23-Nov-20	01-Dec-20	100%	0	\$2,394	Matt Howell														
P2314T045	Mechanical Inspection of CM-03 Cavities	30-Nov-20 A	12-Feb-21 A	14-Dec-20	08-Jan-21	100%	0	\$3,523	Matt Howell														
P2314T200	Perform Cavity Qualification on CM-01 Cavity #1 Dressed	17-Dec-20 A	18-Dec-20 A	04-Nov-20	17-Nov-20	100%	0	\$39,436	Matt Howell														
P2314T060	Mechanical Inspection of CM-04 Cavities	18-Dec-20 A	11-Mar-21 A	06-Jan-21	20-Jan-21	100%	0	\$3,523	Matt Howell														
P2314T195	Weld Helium Vessel onto CM-01 Cavity #4	23-Dec-20 A	27-Jan-21 A	02-Dec-20	08-Dec-20	100%	0	\$2,473	Matt Howell														
P2314T040	Perform Cavity Qualification on CM-02 Cavities	04-Jan-21 A	08-Jan-21 A	08-Mar-21	27-Apr-21	100%	0	\$162,463	Matt Howell														
P2314T205	Perform Cavity Qualification on CM-01 Cavity #2 Dressed	04-Jan-21 A	12-Jan-21 A	23-Nov-20	08-Dec-20	100%	0	\$39,671	Matt Howell														
P2314T055	Perform Cavity Qualification on CM-03 Cavities	11-Jan-21 A	05-Apr-21 A	28-Apr-21	21-Jun-21	100%	0	\$152,313	Matt Howell														
P2314T210	Perform Cavity Qualification on CM-01 Cavity #3 Dressed	19-Jan-21 A	22-Jan-21 A	09-Dec-20	18-Dec-20	100%	0	\$40,628	Matt Howell														
P2314T220	Weld Helium Vessel onto CM-02 Cavity #1	27-Jan-21 A	29-Jan-21 A	01-Mar-21	05-Mar-21	100%	0	\$2,509	Matt Howell														
P2314T225	Weld Helium Vessel onto CM-02 Cavity #2	08-Feb-21 A	02-Mar-21 A	08-Mar-21	12-Mar-21	100%	0	\$2,509	Matt Howell														
P2314T215	Perform Cavity Qualification on CM-01 Cavity #4 Dressed	22-Feb-21 A	10-Mar-21 A	04-Jan-21	15-Jan-21	100%	0	\$40,631	Matt Howell														
P2314T230	Weld Helium Vessel onto CM-02 Cavity #3	22-Feb-21 A	01-Mar-21 A	15-Mar-21	19-Mar-21	100%	0	\$2,509	Matt Howell														
P2314T075	Mechanical Inspection of CM-05 Cavities	01-Mar-21 A	14-May-21 A	06-Jan-21	20-Jan-21	100%	0	\$3,523	Matt Howell														
P2314T250	Weld Helium Vessel onto CM-03 Cavity #2	10-Mar-21 A	14-Apr-21 A	06-Apr-21	12-Apr-21	100%	0	\$2,459	Matt Howell														
P2314T240	Weld Helium Vessel onto CM-02 Cavity #4	17-Mar-21 A	23-Mar-21 A	22-Mar-21	26-Mar-21	100%	0	\$2,453	Matt Howell														
P2314T255	Weld Helium Vessel onto CM-03 Cavity #3	23-Mar-21 A	10-May-21 A	13-Apr-21	15-Apr-21	100%	0	\$2,459	Matt Howell														
P2314T260	Weld Helium Vessel onto CM-03 Cavity #4	23-Mar-21 A	17-May-21 A	16-Apr-21	21-Apr-21	100%	0	\$2,459	Matt Howell														
P2314T245	Weld Helium Vessel onto CM-03 Cavity #1	24-Mar-21 A	07-Apr-21 A	29-Mar-21	05-Apr-21	100%	0	\$2,394	Matt Howell														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2314T070	Perform Cavity Qualification on CM-04 Cavities	09-Apr-21 A	20-May-21 A	22-Jun-21	10-Aug-21	100%	0	\$152,313	Matt Howell															
P2314T265	Weld Helium Vessel onto CM-04 Cavity #1	26-Apr-21 A	07-Jun-21	22-Apr-21	28-Apr-21	66%	5	\$2,459	Matt Howell															
P2314T270	Weld Helium Vessel onto CM-04 Cavity #2	20-May-21 A	07-Jun-21	29-Apr-21	05-May-21	33%	5	\$2,394	Matt Howell															
P2314T275	Weld Helium Vessel onto CM-04 Cavity #3	27-May-21 A	07-Jun-21	06-May-21	12-May-21	33%	5	\$2,471	Matt Howell															
P2314T095	Mechanical Inspection of CM-06 Cavities	01-Jun-21	14-Jun-21	25-Jan-21	05-Feb-21	0%	10	\$3,625	Matt Howell															
P2314T110	Mechanical Inspection of CM-07 Cavities	01-Jun-21*	14-Jun-21	15-Feb-21	26-Feb-21	0%	10	\$3,527	Matt Howell															
P2314T280	Weld Helium Vessel onto CM-04 Cavity #4	08-Jun-21	14-Jun-21	13-May-21	19-May-21	0%	5	\$2,471	Matt Howell															
P2314T285	Weld Helium Vessel onto CM-05 Cavity #1	15-Jun-21	22-Jun-21	20-May-21	27-May-21	0%	6	\$2,471	Matt Howell															
P2314T085	Perform Cavity Qualification on CM-05 Cavities	23-Jun-21	20-Aug-21	11-Aug-21	30-Sep-21	0%	42	\$153,015	Matt Howell															
P2314T290	Weld Helium Vessel onto CM-05 Cavity #2	23-Jun-21	30-Jun-21	28-May-21	07-Jun-21	0%	6	\$2,394	Matt Howell															
P2314T295	Weld Helium Vessel onto CM-05 Cavity #3	01-Jul-21	09-Jul-21	08-Jun-21	15-Jun-21	0%	6	\$2,511	Matt Howell															
P2314T300	Weld Helium Vessel onto CM-05 Cavity #4	12-Jul-21	19-Jul-21	16-Jun-21	23-Jun-21	0%	6	\$2,511	Matt Howell															
P2314T305	Weld Helium Vessel onto CM-06 Cavity #1	20-Jul-21	27-Jul-21	24-Jun-21	01-Jul-21	0%	6	\$2,394	Matt Howell															
P2314T310	Weld Helium Vessel onto CM-06 Cavity #2	28-Jul-21	04-Aug-21	02-Jul-21	12-Jul-21	0%	6	\$2,466	Matt Howell															
P2314T315	Weld Helium Vessel onto CM-06 Cavity #3	05-Aug-21	12-Aug-21	13-Jul-21	20-Jul-21	0%	6	\$2,466	Matt Howell															
P2314T320	Weld Helium Vessel onto CM-06 Cavity #4	13-Aug-21	20-Aug-21	21-Jul-21	28-Jul-21	0%	6	\$2,466	Matt Howell															
P2314T105	Perform Cavity Qualification on CM-06 Cavities	23-Aug-21	20-Oct-21	01-Oct-21	19-Nov-21	0%	42	\$157,190	Matt Howell															
P2314T325	Weld Helium Vessel onto CM-07 Cavity #1	23-Aug-21	30-Aug-21	29-Jul-21	05-Aug-21	0%	6	\$2,394	Matt Howell															
P2314T330	Weld Helium Vessel onto CM-07 Cavity #2	31-Aug-21	08-Sep-21	06-Aug-21	13-Aug-21	0%	6	\$2,467	Matt Howell															
P2314T335	Weld Helium Vessel onto CM-07 Cavity #3	09-Sep-21	16-Sep-21	16-Aug-21	23-Aug-21	0%	6	\$2,467	Matt Howell															
P2314T340	Weld Helium Vessel onto CM-07 Cavity #4	17-Sep-21	24-Sep-21	24-Aug-21	31-Aug-21	0%	6	\$2,467	Matt Howell															
P2314T120	Perform Cavity Qualification on CM-07 Cavities	21-Oct-21	20-Dec-21	22-Nov-21	24-Jan-22	0%	41	\$167,557	Matt Howell															
P2314MS07	All Cryomodule Cavities Qualified		20-Jan-22		24-Jan-22	0%	0	\$0	Matt Howell															
<b>P02.03.01.04.15 Cleanroom String Assembly</b>		<b>10-Aug-20 A</b>	<b>14-Mar-22</b>	<b>10-Aug-20</b>	<b>14-Mar-22</b>		<b>193</b>	<b>\$664,849</b>																
P2315A050a	Perform String Mockup Assembly	10-Aug-20 A	30-Oct-20 A	10-Aug-20	30-Oct-20	100%	0	\$0	Matt Howell															
P2315A055	Cleanroom String Assembly Sustaining Engineering	02-Nov-20 A	01-Jun-21	02-Nov-20	17-Nov-20	73%	0	\$24,494	Matt Howell															
P2315A050b	Perform String Mockup Assembly Continued	02-Nov-20 A	30-Nov-20 A	02-Nov-20	30-Nov-20	100%	0	\$3,048	Matt Howell															
P2315A050c	Perform String Mockup Assembly Continued	04-Jan-21 A	26-Feb-21 A	01-Dec-20	18-Dec-20	100%	0	\$2,480	Matt Howell															
P2315A015	CM-01 Cavity String Assembly	15-Feb-21 A	29-Mar-21 A	19-Jan-21	27-Apr-21	100%	0	\$84,543	Matt Howell															
P2315A020	CM-02 Cavity String Assembly	19-Apr-21 A	18-Jun-21	28-Apr-21	21-Jun-21	33%	14	\$83,532	Matt Howell															
P2315A055b	Cleanroom String Assembly Sustaining Engineering Continued	01-Jun-21	02-Jun-21	18-Nov-20	19-Nov-20	0%	2	\$4,215	Matt Howell															
P2315A055c	Cleanroom String Assembly Sustaining Engineering Continued	03-Jun-21	14-Mar-22	20-Nov-20	14-Dec-21	0%	191	\$54,989	Matt Howell															
P2315A025	CM-03 Cavity String Assembly	21-Jun-21	09-Aug-21	22-Jun-21	10-Aug-21	0%	35	\$83,305	Matt Howell															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2315A030	CM-04 Cavity String Assembly	10-Aug-21	29-Sep-21	11-Aug-21	30-Sep-21	0%	36	\$83,536	Matt Howell															
P2315A035	CM-05 Cavity String Assembly	30-Sep-21	18-Nov-21	01-Oct-21	19-Nov-21	0%	36	\$85,304	Matt Howell															
P2315A040	CM-06 Cavity String Assembly	19-Nov-21	21-Jan-22	22-Nov-21	24-Jan-22	0%	36	\$85,267	Matt Howell															
P2315A045	CM-07 Cavity String Assembly	25-Jan-22	14-Mar-22	25-Jan-22	14-Mar-22	0%	35	\$70,139	Matt Howell															
<b>P02.03.01.04.16 Cold Mass Assembly</b>		<b>01-May-20 A</b>	<b>17-Jun-22</b>	<b>01-May-20</b>	<b>17-Jun-22</b>		<b>260</b>	<b>\$1,321,283</b>																
P2316A050a	Tuner Accelerated Life Test Plan Activities	01-May-20 A	30-Oct-20 A	01-May-20	30-Oct-20	100%	0	\$0	Matt Howell															
P2316A050b	Tuner Accelerated Life Test Plan Activities Continued	02-Nov-20 A	30-Nov-20 A	02-Nov-20	30-Nov-20	100%	0	\$70,267	Matt Howell															
P2316A050c	Tuner Accelerated Life Test Plan Activities Continued	01-Dec-20 A	15-Jul-21	01-Dec-20	27-Jan-21	26%	32	\$114,711	Matt Howell															
P2316A50	Cold Mass Assembly Sustaining Engineering	30-Mar-21 A	16-Jun-22	28-Apr-21	16-Jun-22	7.14%	259	\$78,846	Matt Howell															
P2316A015	CM-01 Cold Mass Assembly	05-Apr-21 A	30-Jun-21	28-Apr-21	30-Jun-21	40%	22	\$148,219	Matt Howell															
P2316A020	CM-02 Cold Mass Assembly	01-Jul-21	26-Aug-21	01-Jul-21	26-Aug-21	0%	40	\$148,242	Matt Howell															
P2316A025	CM-03 Cold Mass Assembly	27-Aug-21	22-Oct-21	27-Aug-21	22-Oct-21	0%	40	\$150,222	Matt Howell															
P2316A030	CM-04 Cold Mass Assembly	25-Oct-21	21-Dec-21	25-Oct-21	21-Dec-21	0%	40	\$153,246	Matt Howell															
P2316A035	CM-05 Cold Mass Assembly	22-Dec-21	24-Feb-22	22-Dec-21	24-Feb-22	0%	39	\$152,982	Matt Howell															
P2316A040	CM-06 Cold Mass Assembly	25-Feb-22	21-Apr-22	25-Feb-22	21-Apr-22	0%	39	\$150,233	Matt Howell															
P2316A045	CM-07 Cold Mass Assembly	22-Apr-22	17-Jun-22	22-Apr-22	17-Jun-22	0%	40	\$154,314	Matt Howell															
<b>P02.03.01.04.17 Spaceframe Thermal Shield Assembly</b>		<b>01-Sep-20 A</b>	<b>18-Aug-22</b>	<b>01-Sep-20</b>	<b>18-Aug-22</b>		<b>281</b>	<b>\$840,678</b>																
P2317A055	Vendor to Inspect the Thermal Shield Assemblies	01-Sep-20 A	01-Feb-21 A	01-Sep-20	20-Nov-20	100%	0	\$0	Matt Howell															
P2317A065	Vendor to Install MLI into two Thermal Shield Spaceframe Assemblies	01-Feb-21 A	16-Feb-21 A	02-Nov-20	19-Jan-21	100%	0	\$0	Matt Howell															
P2317A060	ACCEPT: Vendor to Inspect the Thermal Shield Assemblies	05-Feb-21 A	05-Feb-21 A	23-Nov-20	23-Nov-20	100%	0	\$37,256	Matt Howell															
P2317A070	ACCEPT: Vendor to Install MLI into two Thermal Shield Spaceframe Assemblies	16-Feb-21 A	16-Feb-21 A	20-Jan-21	20-Jan-21	100%	0	\$19,821	Matt Howell															
P2317A075	Adjustment for July ACCEPT: Vendor Labor to Assemble the Thermal Shield Assy onto Spaceframe Assy	29-Mar-21 A	29-Mar-21 A	02-Nov-20	02-Nov-20	100%	0	\$45,765	Matt Howell															
P2317A015	CM-01 Spaceframe Thermal Shield Assembly	01-Jul-21	02-Sep-21	01-Jul-21	02-Sep-21	0%	45	\$98,222	Matt Howell															
P2317A050	Spaceframe Thermal Shield Sustaining Engineering	01-Jul-21	18-Aug-22	01-Jul-21	18-Aug-22	0%	281	\$59,332	Matt Howell															
P2317A020	CM-02 Spaceframe Thermal Shield Assembly	03-Sep-21	29-Oct-21	03-Sep-21	29-Oct-21	0%	40	\$99,738	Matt Howell															
P2317A025	CM-03 Spaceframe Thermal Shield Assembly	01-Nov-21	21-Dec-21	01-Nov-21	21-Dec-21	0%	35	\$101,092	Matt Howell															
P2317A030	CM-04 Spaceframe Thermal Shield Assembly	22-Dec-21	25-Feb-22	22-Dec-21	25-Feb-22	0%	40	\$100,764	Matt Howell															
P2317A035	CM-05 Spaceframe Thermal Shield Assembly	28-Feb-22	22-Apr-22	28-Feb-22	22-Apr-22	0%	39	\$98,618	Matt Howell															
P2317A040	CM-06 Spaceframe Thermal Shield Assembly	25-Apr-22	20-Jun-22	25-Apr-22	20-Jun-22	0%	40	\$97,904	Matt Howell															
P2317A045	CM-07 Spaceframe Thermal Shield Assembly	24-Jun-22	18-Aug-22	24-Jun-22	18-Aug-22	0%	39	\$82,166	Matt Howell															
<b>P02.03.01.04.18 Final Cryomodule Assembly</b>		<b>03-Sep-21</b>	<b>12-Jan-23</b>	<b>03-Sep-21</b>	<b>22-Dec-22</b>		<b>331</b>	<b>\$1,537,767</b>																
P2318A015	CM-01 Final Assembly	03-Sep-21	05-Nov-21	03-Sep-21	05-Nov-21	0%	45	\$154,524	Matt Howell															
P2318A085	CM Assembly and Testing Sustaining Engineering	03-Sep-21	21-Dec-22	03-Sep-21	21-Dec-22	0%	322	\$106,629	Matt Howell															









Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P235P215	Accept Vendor Effort Fabrication of Beamline Thermal Stations	04-May-22	04-May-22	04-May-22	04-May-22	0%	1	\$3,022	Matt Howell															
P235P205	Accept Additional MLI Procurement	14-Oct-22	14-Oct-22	14-Oct-22	14-Oct-22	0%	1	\$18,329	Matt Howell															
<b>P02.03.01.05.03.06 Additional Spaceframe Procurement</b>		<b>01-Jun-21</b>	<b>05-Apr-22</b>	<b>01-Jun-21</b>	<b>05-Apr-22</b>		<b>209</b>	<b>\$136,248</b>																
P236P065	Vendor Fabrication of Additional Spaceframe	01-Jun-21	04-Apr-22	01-Jun-21	04-Apr-22	0%	208	\$0	Matt Howell															
P236P070	Accept Vendor Fabrication of Additional Spaceframe	05-Apr-22	05-Apr-22	05-Apr-22	05-Apr-22	0%	1	\$136,248	Matt Howell															
<b>P02.03.01.05.03.07 Additional Vacuum Vessel Procurement</b>		<b>01-Jun-21</b>	<b>02-Jun-22</b>	<b>01-Jun-21</b>	<b>02-Jun-22</b>		<b>249</b>	<b>\$235,493</b>																
P237P110	Vendor Fabrication of Additional CM Ion Pump Support Assy	01-Jun-21	05-Jan-22	01-Jun-21	05-Jan-22	0%	146	\$0	Matt Howell															
P237P120	Vendor Fabrication of Additional Vacuum Vessels	01-Oct-21	01-Jun-22	01-Oct-21	01-Jun-22	0%	162	\$0	Matt Howell															
P237P115	Accept Vendor Fabrication of Additional CM Ion Pump Support Assy	06-Jan-22	06-Jan-22	06-Jan-22	06-Jan-22	0%	1	\$22,876	Matt Howell															
P237P125	Accept Vendor Fabrication of Additional Vacuum Vessels	02-Jun-22	02-Jun-22	02-Jun-22	02-Jun-22	0%	1	\$212,617	Matt Howell															
<b>P02.03.01.05.03.08 Additional Supply End Can Procurement</b>		<b>01-Jun-21</b>	<b>06-Jun-22</b>	<b>01-Jun-21</b>	<b>06-Jun-22</b>		<b>251</b>	<b>\$112,672</b>																
P238P175	Vendor Fabrication of Supply End Can JT Bellows	01-Jun-21	26-Aug-21	01-Jun-21	26-Aug-21	0%	62	\$0	Matt Howell															
P238P180	Accept Vendor Fabrication of Supply End Can JT Bellows	27-Aug-21	27-Aug-21	27-Aug-21	27-Aug-21	0%	1	\$8,215	Matt Howell															
P238P185	Vendor Effort Additional Supply End Cans	01-Oct-21	03-Jun-22	01-Oct-21	03-Jun-22	0%	164	\$0	Matt Howell															
P238P190	Accept Additional Supply End Cans	06-Jun-22	06-Jun-22	06-Jun-22	06-Jun-22	0%	1	\$104,457	Matt Howell															
<b>P02.03.01.05.03.09 Additional Return End Can Procurement</b>		<b>01-Jun-21</b>	<b>22-Jul-22</b>	<b>01-Jun-21</b>	<b>22-Jul-22</b>		<b>284</b>	<b>\$228,759</b>																
P239P215	Vendor Fabrication of Return End Can JT Bellows	01-Jun-21	26-Aug-21	01-Jun-21	26-Aug-21	0%	62	\$0	Matt Howell															
P239P220	Accept Vendor Fabrication of Return End Can JT Bellows	27-Aug-21	27-Aug-21	27-Aug-21	27-Aug-21	0%	1	\$16,465	Matt Howell															
P239P225	Vendor Fabrication of Additional Return End Cans	01-Oct-21	03-Jun-22	01-Oct-21	03-Jun-22	0%	164	\$0	Matt Howell															
P239P235	Vendor Inspection of Heat Exchanger	01-Oct-21	06-Jun-22	01-Oct-21	06-Jun-22	0%	165	\$0	Matt Howell															
P239P245	Vendor Fabrication of Replacement Return End Can Heat Exchangers	01-Oct-21	21-Jul-22	01-Oct-21	21-Jul-22	0%	197	\$0	Matt Howell															
P239P230	Accept Vendor Fabrication of Additional Return End Cans	06-Jun-22	06-Jun-22	06-Jun-22	06-Jun-22	0%	1	\$135,467	Matt Howell															
P239P240	Accept Vendor Inspection of Heat Exchanger	07-Jun-22	07-Jun-22	07-Jun-22	07-Jun-22	0%	1	\$5,740	Matt Howell															
P239P250	Accept Vendor Fabrication of Replacement Return End Can Heat Exchangers	22-Jul-22	22-Jul-22	22-Jul-22	22-Jul-22	0%	1	\$71,087	Matt Howell															
<b>P02.03.01.05.03.10 Additional Instrumentation Procurement</b>		<b>01-Oct-21</b>	<b>12-May-22</b>	<b>01-Oct-21</b>	<b>12-May-22</b>		<b>149</b>	<b>\$129,114</b>																
P2310P100	Vendor Fabrication of CM Interface Panel	01-Oct-21	13-Jan-22	01-Oct-21	13-Jan-22	0%	66	\$0	Matt Howell															
P2310P110	Vendor Fabrication of Cemox Diode Procurement	01-Oct-21	07-Feb-22	01-Oct-21	07-Feb-22	0%	82	\$0	Matt Howell															
P2310P120	Vendor Fabrication of Pressure Gages Assembly	01-Oct-21	18-Feb-22	01-Oct-21	18-Feb-22	0%	91	\$0	Matt Howell															
P2310P130	Vendor Fabrication of Feed Thru Flange Weldment	01-Oct-21	27-Apr-22	01-Oct-21	27-Apr-22	0%	138	\$0	Matt Howell															
P2310P140	Vendor Fabrication of Thermocouple Probe Procurement	01-Oct-21	13-Jan-22	01-Oct-21	13-Jan-22	0%	66	\$0	Matt Howell															
P2310P150	Vendor Fabrication of Helium Feedthrough Procurement	01-Oct-21	07-Feb-22	01-Oct-21	07-Feb-22	0%	82	\$0	Matt Howell															
P2310P160	Vendor Fabrication of Heater Procurement	01-Oct-21	07-Mar-22	01-Oct-21	07-Mar-22	0%	102	\$0	Matt Howell															
P2310P170	Vendor Fabrication of Field Probe Cable	01-Oct-21	11-May-22	01-Oct-21	11-May-22	0%	148	\$0	Matt Howell															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																																									
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035	FY2036	FY2037	FY2038	FY2039	FY2040	FY2041	FY2042															
P2310P180	Vendor Fabrication of Vacuum Gauge Assembly	01-Oct-21	14-Jan-22	01-Oct-21	14-Jan-22	0%	67	\$0	Matt Howell																																										
P2310P190	Vendor Fabrication of Vacuum Feedthroughs	01-Oct-21	16-Feb-22	01-Oct-21	16-Feb-22	0%	89	\$0	Matt Howell																																										
P2310P200	Vendor Fabrication of Liquid Level Probe	01-Oct-21	07-Mar-22	01-Oct-21	07-Mar-22	0%	102	\$0	Matt Howell																																										
P2310P105	Accept Vendor Fabrication of CM Interface Panel	14-Jan-22	14-Jan-22	14-Jan-22	14-Jan-22	0%	1	\$5,691	Matt Howell																																										
P2310P145	Accept Vendor Fabrication of Thermocouple Probe Procurement	14-Jan-22	14-Jan-22	14-Jan-22	14-Jan-22	0%	1	\$1,725	Matt Howell																																										
P2310P185	Accept Vendor Fabrication of Vacuum Gauge Assembly	18-Jan-22	18-Jan-22	18-Jan-22	18-Jan-22	0%	1	\$40,160	Matt Howell																																										
P2310P115	Accept Vendor Fabrication of Cemox Diode Procurement	08-Feb-22	08-Feb-22	08-Feb-22	08-Feb-22	0%	1	\$53,467	Matt Howell																																										
P2310P155	Accept Vendor Fabrication of Helium Feedthrough Procurement	08-Feb-22	08-Feb-22	08-Feb-22	08-Feb-22	0%	1	\$1,771	Matt Howell																																										
P2310P195	Accept Vendor Fabrication of Vacuum Feedthroughs	17-Feb-22	17-Feb-22	17-Feb-22	17-Feb-22	0%	1	\$2,382	Matt Howell																																										
P2310P125	Accept Vendor Fabrication of Pressure Gages Assembly	21-Feb-22	21-Feb-22	21-Feb-22	21-Feb-22	0%	1	\$2,920	Matt Howell																																										
P2310P165	Accept Vendor Fabrication of Heater Procurement	08-Mar-22	08-Mar-22	08-Mar-22	08-Mar-22	0%	1	\$2,284	Matt Howell																																										
P2310P205	Accept Vendor Fabrication of Liquid Level Probe	08-Mar-22	08-Mar-22	08-Mar-22	08-Mar-22	0%	1	\$967	Matt Howell																																										
P2310P135	Accept Vendor Fabrication of Feed Thru Flange Weldment	28-Apr-22	28-Apr-22	28-Apr-22	28-Apr-22	0%	1	\$10,511	Matt Howell																																										
P2310P175	Accept Vendor Fabrication of Field Probe Cable	12-May-22	12-May-22	12-May-22	12-May-22	0%	1	\$7,236	Matt Howell																																										
P02.03.01.05.03.13 Additional Magnetic Shielding Procurement		02-Aug-21	14-Jan-22	02-Aug-21	14-Jan-22		110	\$79,380																																											
P2313P035	Vendor Fabrication of Additional Magnetic Shielding	02-Aug-21	13-Jan-22	02-Aug-21	13-Jan-22	0%	109	\$0	Matt Howell																																										
P2313P040	Accept Vendor Fabrication of Additional Magnetic Shielding	14-Jan-22	14-Jan-22	14-Jan-22	14-Jan-22	0%	1	\$79,380	Matt Howell																																										
P02.03.01.05.03.15 Additional Cleanroom String Assembly Procurement		01-Jun-21	20-May-22	01-Jun-21	20-May-22		241	\$299,107																																											
P2315P205	Vendor Fabrication of Additional Gate Valves VAT 482XX	01-Jun-21	07-Oct-21	01-Jun-21	07-Oct-21	0%	91	\$0	Matt Howell																																										
P2315P215	Vendor Fabrication of Additional Beamline Bellows	02-Aug-21	22-Nov-21	02-Aug-21	22-Nov-21	0%	80	\$0	Matt Howell																																										
P2315P225	Vendor Fabrication of Additional Return Warm-Cold Beampipe Assembly	02-Aug-21	15-Dec-21	02-Aug-21	15-Dec-21	0%	95	\$0	Matt Howell																																										
P2315P235	Vendor Fabrication of Additional Supply Warm-Cold Beampipe Assembly	02-Aug-21	15-Dec-21	02-Aug-21	15-Dec-21	0%	95	\$0	Matt Howell																																										
P2315P245	Vendor Fabrication of Additional VAT Right Angle Valve (Supply End)	01-Oct-21	19-Jan-22	01-Oct-21	19-Jan-22	0%	69	\$0	Matt Howell																																										
P2315P255	Additional Cleanroom String Assembly Hardware	01-Oct-21	09-Feb-22	01-Oct-21	09-Feb-22	0%	84	\$0	Matt Howell																																										
P2315P265	Vendor Fabrication of CR Tee and Blank Weldments	01-Oct-21	09-May-22	01-Oct-21	09-May-22	0%	146	\$0	Matt Howell																																										
P2315P275	Vendor Fabrication of Titan 11 L/s Ion Pump	01-Oct-21	19-May-22	01-Oct-21	19-May-22	0%	154	\$0	Matt Howell																																										
P2315P210	Accept Vendor Fabrication of Additional Gate Valves VAT 482XX	08-Oct-21	08-Oct-21	08-Oct-21	08-Oct-21	0%	1	\$168,512	Matt Howell																																										
P2315P220	Accept Vendor Fabrication of Additional Beamline Bellows	23-Nov-21	23-Nov-21	23-Nov-21	23-Nov-21	0%	1	\$28,047	Matt Howell																																										
P2315P230	Accept Vendor Fabrication of Additional Return Warm-Cold Beampipe Assembly	16-Dec-21	16-Dec-21	16-Dec-21	16-Dec-21	0%	1	\$10,125	Matt Howell																																										
P2315P240	Accept Vendor Fabrication of Additional Supply Warm-Cold Beampipe Assembly	16-Dec-21	16-Dec-21	16-Dec-21	16-Dec-21	0%	1	\$36,442	Matt Howell																																										
P2315P250	Accept Vendor Fabrication of Additional VAT Right Angle Valve (Supply End)	20-Jan-22	20-Jan-22	20-Jan-22	20-Jan-22	0%	1	\$18,134	Matt Howell																																										
P2315P260	Accept Additional Cleanroom String Assembly Hardware	10-Feb-22	10-Feb-22	10-Feb-22	10-Feb-22	0%	1	\$10,803	Matt Howell																																										
P2315P270	Accept Vendor Fabrication of CR Tee and Blank Weldments	10-May-22	10-May-22	10-May-22	10-May-22	0%	1	\$6,488	Matt Howell																																										

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2315P280	Accept Vendor Fabrication of Titan 11 L/s Ion Pump	20-May-22	20-May-22	20-May-22	20-May-22	0%	1	\$20,557	Matt Howell														
P02.03.01.05.03.16 Additional Cold Mass Assembly Procurement		02-Aug-21	23-Mar-22	02-Aug-21	23-Mar-22		157	\$135,682															
P2316P075	Vendor Fabrication of Cold Mass Corrugated Hose Assemblies	02-Aug-21	04-Oct-21	02-Aug-21	04-Oct-21	0%	45	\$0	Matt Howell														
P2316P085	Vendor Fabrication of Additional CON Bellows	02-Aug-21	13-Oct-21	02-Aug-21	13-Oct-21	0%	52	\$0	Matt Howell														
P2316P095	Vendor Fabrication of Additional Cold Mass Assembly Machined Parts	02-Aug-21	13-Oct-21	02-Aug-21	13-Oct-21	0%	52	\$0	Matt Howell														
P2316P105	Additional Vendor Fabrication of Large FPC/Tophat Bellows	02-Aug-21	10-Feb-22	02-Aug-21	10-Feb-22	0%	128	\$0	Matt Howell														
P2316P115	Vendor Fabrication of Additional Helium Outlet Bellows	01-Oct-21	16-Mar-22	01-Oct-21	16-Mar-22	0%	109	\$0	Matt Howell														
P2316P125	Vendor Fabrication of Additional Cold Mass Assembly Hardware	01-Oct-21	22-Mar-22	01-Oct-21	22-Mar-22	0%	113	\$0	Matt Howell														
P2316P080	Accept Vendor Fabrication of Cold Mass Corrugated Hose Assemblies	05-Oct-21	05-Oct-21	05-Oct-21	05-Oct-21	0%	1	\$14,735	Matt Howell														
P2316P090	Accept Vendor Fabrication of Additional CON Bellows	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	0%	1	\$12,573	Matt Howell														
P2316P100	Accept Vendor Fabrication of Additional Cold Mass Assembly Machined Parts	14-Oct-21	14-Oct-21	14-Oct-21	14-Oct-21	0%	1	\$44,664	Matt Howell														
P2316P110	Accept Additional Vendor Fabrication of Large FPC/Tophat Bellows	11-Feb-22	11-Feb-22	11-Feb-22	11-Feb-22	0%	1	\$50,196	Matt Howell														
P2316P120	Accept Vendor Fabrication of Additional Helium Outlet Bellows	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	0%	1	\$6,510	Matt Howell														
P2316P130	Accept Vendor Fabrication of Additional Cold Mass Assembly Hardware	23-Mar-22	23-Mar-22	23-Mar-22	23-Mar-22	0%	1	\$7,006	Matt Howell														
P02.03.01.05.03.18 Additional Final Cryomodule Assembly Procurement		02-Aug-21	07-Apr-22	02-Aug-21	07-Apr-22		168	\$139,996															
P2318P285	Vendor Fabrication of Additional 40L/s Ion Pump	02-Aug-21	19-Oct-21	02-Aug-21	19-Oct-21	0%	56	\$0	Matt Howell														
P2318P295	Vendor Fabrication of MDC Gate Valve Hardware	01-Oct-21	09-Nov-21	01-Oct-21	09-Nov-21	0%	28	\$0	Matt Howell														
P2318P305	Vendor Fabrication of Final Cryomodule Assy Piping Kits	01-Oct-21	10-Nov-21	01-Oct-21	10-Nov-21	0%	29	\$0	Matt Howell														
P2318P315	JT Valves and Actuators Raw Materials	01-Oct-21	11-Nov-21	01-Oct-21	11-Nov-21	0%	30	\$0	Matt Howell														
P2318P325	Vendor Fabrication of CM Lockdown Studs	01-Oct-21	19-Nov-21	01-Oct-21	19-Nov-21	0%	36	\$0	Matt Howell														
P2318P335	Vendor Fabrication of Additional 6" Pressure Relief Plates	01-Oct-21	10-Dec-21	01-Oct-21	10-Dec-21	0%	49	\$0	Matt Howell														
P2318P345	Vendor Fabrication of Additional VAT Right Angle Valve	01-Oct-21	14-Dec-21	01-Oct-21	14-Dec-21	0%	51	\$0	Matt Howell														
P2318P355	Vendor Fabrication of Coupler Return Piping	01-Oct-21	15-Dec-21	01-Oct-21	15-Dec-21	0%	52	\$0	Matt Howell														
P2318P365	Vendor Fabrication of Supply Warm Beamtube Assembly	01-Oct-21	15-Dec-21	01-Oct-21	15-Dec-21	0%	52	\$0	Matt Howell														
P2318P375	Vendor Fabrication of Additional Return Warm Beamtube Assembly	01-Oct-21	15-Dec-21	01-Oct-21	15-Dec-21	0%	52	\$0	Matt Howell														
P2318P385	Vendor Fabrication of Additional CM Rupture Disk Spool Assemblies	01-Oct-21	12-Jan-22	01-Oct-21	12-Jan-22	0%	65	\$0	Matt Howell														
P2318P395	Vendor Fabrication of Additional Surge Tank	01-Oct-21	27-Jan-22	01-Oct-21	27-Jan-22	0%	75	\$0	Matt Howell														
P2318P405	Vendor Fabrication of Additional Rupture Disks	01-Oct-21	02-Feb-22	01-Oct-21	02-Feb-22	0%	79	\$0	Matt Howell														
P2318P415	Vendor Fabrication of Additional Gate valve MDC 303006-133	01-Oct-21	29-Mar-22	01-Oct-21	29-Mar-22	0%	118	\$0	Matt Howell														
P2318P425	Vendor Fabrication of Additional Tophats	01-Oct-21	29-Mar-22	01-Oct-21	29-Mar-22	0%	118	\$0	Matt Howell														
P2318P435	Vendor Fabrication of Additional 2" Pressure Relief Plates	01-Oct-21	06-Apr-22	01-Oct-21	06-Apr-22	0%	124	\$0	Matt Howell														
P2318P290	Accept Vendor Fabrication of Additional 40L/s Ion Pump	20-Oct-21	20-Oct-21	20-Oct-21	20-Oct-21	0%	1	\$19,445	Matt Howell														
P2318P300	Accept Vendor Fabrication of MDC Gate Valve Hardware	10-Nov-21	10-Nov-21	10-Nov-21	10-Nov-21	0%	1	\$409	Matt Howell														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY Budgets																												
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29															
P2318P310	Accept Vendor Fabrication of Final Cryomodule Assy Piping Kits	11-Nov-21	11-Nov-21	11-Nov-21	11-Nov-21	0%	1	\$21,030	Matt Howell																													
P2318P320	Accept JT Valves and Actuators Raw Materials	12-Nov-21	12-Nov-21	12-Nov-21	12-Nov-21	0%	1	\$30,645	Matt Howell																													
P2318P330	Accept Vendor Fabrication of CM Lockdown Studs	22-Nov-21	22-Nov-21	22-Nov-21	22-Nov-21	0%	1	\$2,026	Matt Howell																													
P2318P340	Accept Vendor Fabrication of Additional 6" Pressure Relief Plates	13-Dec-21	13-Dec-21	13-Dec-21	13-Dec-21	0%	1	\$4,021	Matt Howell																													
P2318P350	Accept Vendor Fabrication of Additional VAT Right Angle Valve	15-Dec-21	15-Dec-21	15-Dec-21	15-Dec-21	0%	1	\$1,412	Matt Howell																													
P2318P360	Accept Vendor Fabrication of Coupler Return Piping	16-Dec-21	16-Dec-21	16-Dec-21	16-Dec-21	0%	1	\$4,320	Matt Howell																													
P2318P370	Accept Vendor Fabrication of Supply Warm Beamtube Assembly	16-Dec-21	16-Dec-21	16-Dec-21	16-Dec-21	0%	1	\$10,181	Matt Howell																													
P2318P380	Accept Vendor Fabrication of Additional Return Warm Beamtube Assembly	16-Dec-21	16-Dec-21	16-Dec-21	16-Dec-21	0%	1	\$2,535	Matt Howell																													
P2318P390	Accept Vendor Fabrication of Additional CM Rupture Disk Spool Assemblies	13-Jan-22	13-Jan-22	13-Jan-22	13-Jan-22	0%	1	\$4,254	Matt Howell																													
P2318P400	Accept Vendor Fabrication of Additional Surge Tank	28-Jan-22	28-Jan-22	28-Jan-22	28-Jan-22	0%	1	\$12,051	Matt Howell																													
P2318P410	Accept Vendor Fabrication of Additional Rupture Disks	03-Feb-22	03-Feb-22	03-Feb-22	03-Feb-22	0%	1	\$7,774	Matt Howell																													
P2318P420	Accept Vendor Fabrication of Additional Gate valve MDC 303006-133	30-Mar-22	30-Mar-22	30-Mar-22	30-Mar-22	0%	1	\$5,905	Matt Howell																													
P2318P430	Accept Vendor Fabrication of Additional Top hats	30-Mar-22	30-Mar-22	30-Mar-22	30-Mar-22	0%	1	\$9,456	Matt Howell																													
P2318P440	Accept Vendor Fabrication of Additional 2" Pressure Relief Plates	07-Apr-22	07-Apr-22	07-Apr-22	07-Apr-22	0%	1	\$4,532	Matt Howell																													
<b>P02.03.01.05.04 8th Cryomodule Assemble &amp; Test</b>		04-Oct-21	17-Apr-23	04-Oct-21	04-Apr-23		376	\$740,316																														
<b>P02.03.01.05.04.14 Additional Cavity Preparation &amp; Testing</b>		04-Oct-21	20-Jan-22	04-Oct-21	20-Jan-22		69	\$184,131																														
P2314T355	Mechanical Inspection of CM-08 Cavities	04-Oct-21	15-Oct-21	04-Oct-21	15-Oct-21	0%	10	\$4,073	Matt Howell																													
P2314T360	Perform Cavity Qualification on CM-08 Cavities	18-Oct-21	08-Dec-21	18-Oct-21	08-Dec-21	0%	36	\$169,901	Matt Howell																													
P2314T365	Weld Helium Vessel onto CM-08 Cavity #1	09-Dec-21	16-Dec-21	09-Dec-21	16-Dec-21	0%	6	\$2,539	Matt Howell																													
P2314T370	Weld Helium Vessel onto CM-08 Cavity #2	17-Dec-21	04-Jan-22	17-Dec-21	04-Jan-22	0%	6	\$2,539	Matt Howell																													
P2314T375	Weld Helium Vessel onto CM-08 Cavity #3	05-Jan-22	11-Jan-22	05-Jan-22	11-Jan-22	0%	5	\$2,539	Matt Howell																													
P2314T380	Weld Helium Vessel onto CM-08 Cavity #4	12-Jan-22	20-Jan-22	12-Jan-22	20-Jan-22	0%	6	\$2,539	Matt Howell																													
<b>P02.03.01.05.04.15 Additional Cleanroom String Assembly</b>		23-May-22	19-Jul-22	23-May-22	19-Jul-22		40	\$68,953																														
P2315A060	CM-08 Cavity String Assembly	23-May-22	19-Jul-22	23-May-22	19-Jul-22	0%	40	\$68,953	Matt Howell																													
<b>P02.03.01.05.04.16 Additional Cold Mass Assembly</b>		20-Jul-22	14-Sep-22	20-Jul-22	14-Sep-22		40	\$154,293																														
P2316A055	CM-08 Cold Mass Assembly	20-Jul-22	14-Sep-22	20-Jul-22	14-Sep-22	0%	40	\$154,293	Matt Howell																													
<b>P02.03.01.05.04.17 Additional Spaceframe Thermal Shield Assembly</b>		06-Apr-22	13-Dec-22	25-Apr-22	13-Dec-22		174	\$101,017																														
P2317A090	Vendor Effort for Labor to Assemble the Additional Thermal Shield Assy onto Add't Spaceframe Assy	06-Apr-22	08-Apr-22	25-Apr-22	27-Apr-22	0%	3	\$0	Matt Howell																													
P2317A095	Accept: Vendor Effort for Labor to Assemble the Additional Thermal Shield Assy onto Add't Spaceframe Assy	11-Apr-22	11-Apr-22	28-Apr-22	28-Apr-22	0%	1	\$6,229	Matt Howell																													
P2317A120	Vendor Effort for Inspecting the Additional Thermal Shield Assemblies	11-Apr-22	14-Jun-22	28-Apr-22	30-Jun-22	0%	45	\$0	Matt Howell																													
P2317A110	Vendor Effort for Inspecting the Additional Thermal Shield Assemblies	12-Apr-22	13-Jun-22	29-Apr-22	29-Jun-22	0%	43	\$0	Matt Howell																													
P2317A115	Accept: Vendor Effort for Inspecting the Additional Thermal Shield Assemblies	14-Jun-22	14-Jun-22	30-Jun-22	30-Jun-22	0%	1	\$5,071	Matt Howell																													
P2317A125	Accept: Vendor Effort for Inspecting the Additional Thermal Shield Assemblies	15-Jun-22	15-Jun-22	01-Jul-22	01-Jul-22	0%	1	\$4,496	Matt Howell																													



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
										F	F	F	F	F	F	F	F	F	F	F	F	F
P2317A130	CM-08 Spaceframe Thermal Shield Assembly	17-Oct-22	13-Dec-22	17-Oct-22	13-Dec-22	0%	40	\$85,221	Matt Howell													
P02.03.01.05.04.18 Additional Final Cryomodule Assembly		07-Nov-22	10-Mar-23	26-Oct-22	28-Feb-23		80	\$191,767														
P2318A090	CM-08 Final Assembly	07-Nov-22	12-Jan-23	26-Oct-22	22-Dec-22	0%	40	\$139,204	Matt Howell													
P2318A095	CM-08 Acceptance Testing	13-Jan-23	10-Mar-23	03-Jan-23	28-Feb-23	0%	40	\$52,563	Matt Howell													
P02.03.01.05.04.19 Additional Shipping		13-Mar-23	17-Apr-23	01-Mar-23	04-Apr-23		25	\$40,154														
P02.03.01.05.04.19.02 Prepare CM for Shipment		13-Mar-23	31-Mar-23	01-Mar-23	21-Mar-23		15	\$15,647														
P2319A16f	Prepare and Pack CM-08 for Shipping	13-Mar-23	31-Mar-23	01-Mar-23	21-Mar-23	0%	15	\$15,647	Matt Howell													
P02.03.01.05.04.19.03 Ship CM		03-Apr-23	17-Apr-23	22-Mar-23	04-Apr-23		10	\$24,507														
P2319A16f	Ship CM-08 to ORNL	03-Apr-23	17-Apr-23	22-Mar-23	04-Apr-23	0%	10	\$24,507	Matt Howell													
P02.04 Cryogenics		03-Oct-16 A	10-Apr-24	03-Oct-16	10-Apr-24		706	\$801,603														
P02.04.01 Management and System Integration		03-Oct-16 A	09-Apr-24	03-Oct-16	09-Apr-24		705	\$109,105														
P02.04.01.01 Management and System Integration - Cryogenics		03-Oct-16 A	09-Apr-24	03-Oct-16	09-Apr-24		705	\$109,105														
P241M1	WBS P.2.4 Management FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Brian DeGraff	█	█											
P241M35	WBS P.2.4 Management FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Brian DeGraff		█	█										
P241M6	WBS P.2.4 Management FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Brian DeGraff			█	█									
P241M11	WBS P.2.4 Management FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Brian DeGraff				█	█								
P241M11b	WBS P.2.4 Management FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Brian DeGraff					█	█							
P241M11c	WBS P.2.4 Management FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Brian DeGraff						█							
P241M16a	WBS P.2.4 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Brian DeGraff					█	█							
P241M16b	WBS P.2.4 Management FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Brian DeGraff						█	█						
P241M21a	WBS P.2.4 Management FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Brian DeGraff							█						
P241M21b	WBS P.2.4 Management FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$27,999	Brian DeGraff							█	█					
P241M26	WBS P.2.4 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$31,710	Brian DeGraff								█	█				
P241M31	WBS P.2.4 Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$32,943	Brian DeGraff									█	█			
P241M45	WBS P.2.4 Management FY24 (LOE)	02-Oct-23	09-Apr-24	02-Oct-23	09-Apr-24	0%	127	\$16,453	Brian DeGraff										█	█		
P02.04.02 Cryogenic Components		19-Oct-20 A	22-Mar-24	19-Oct-20	22-Mar-24		629	\$654,473														
P02.04.02.03 Procure/Fab - Cryogenic Components		19-Oct-20 A	13-Apr-22	19-Oct-20	13-Apr-22		150	\$416,503														
P242P36	Procure Grating	19-Oct-20 A	21-Oct-20 A	19-Oct-20	21-Oct-20	100%	0	\$0	Brian DeGraff													
P242P66	Fabricate Grating	22-Oct-20 A	20-Nov-20 A	22-Oct-20	20-Nov-20	100%	0	\$0	Brian DeGraff													
P242P41	Receive Grating	23-Nov-20 A	23-Nov-20 A	23-Nov-20	23-Nov-20	100%	0	\$8,341	Brian DeGraff													
P242P56	Procure Valve Actuators	09-Feb-22*	01-Mar-22	09-Feb-22	01-Mar-22	0%	15	\$481	Brian DeGraff													
P242P71	Fabricate Valve Actuators	02-Mar-22	12-Apr-22	02-Mar-22	12-Apr-22	0%	30	\$0	Brian DeGraff													
P242P61	Receive Valve Actuators	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	0%	1	\$73,319	Brian DeGraff													





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P251M11b	WBS P.2.5 Management FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Chris Stone																												
P251M11c	WBS P.2.5 Management FY19 (LOE) Continued (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Chris Stone																												
P251M16a	WBS P.2.5 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Chris Stone																												
P251M16b	WBS P.2.5 Management FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Chris Stone																												
P251M21a	WBS P.2.5 Management FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Chris Stone																												
P251M21b	WBS P.2.5 Management FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$57,335	Chris Stone																												
P251MS02	Initiate P.2.5 Procurements	03-May-21 A		02-Aug-21		100%	0	\$0	Chris Stone																												
P251M26	WBS P.2.5 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$59,087	Chris Stone																												
P251M40	WBS P.2.5 Management FY23 (LOE)	03-Oct-22	11-Apr-23	03-Oct-22	11-Apr-23	0%	126	\$24,528	Chris Stone																												
P251MS01	Utility Systems Installation Complete		24-Apr-23		12-Apr-23	0%	0	\$0	Chris Stone																												
<b>P02.05.02 Beamline Vacuum</b>		<b>01-May-18 A</b>	<b>02-Sep-22</b>	<b>01-May-18</b>	<b>02-Sep-22</b>		<b>314</b>	<b>\$179,873</b>																													
<b>P02.05.02.02 Design - Beamline Vacuum</b>		<b>01-May-18 A</b>	<b>30-Jan-19 A</b>	<b>01-May-18</b>	<b>30-Jan-19</b>		<b>0</b>	<b>\$0</b>																													
P252D101	Vacuum Design Effort (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Stone																												
P252D110	Vacuum Design Effort (Oct through Remain)	01-Oct-18 A	02-Jan-19 A	01-Oct-18	02-Jan-19	100%	0	\$0	Chris Stone																												
P252D106	Mechanical Design Effort	03-Dec-18 A	30-Jan-19 A	03-Dec-18	30-Jan-19	100%	0	\$0	Chris Stone																												
<b>P02.05.02.03 Procure/Fab - Beamline Vacuum</b>		<b>03-May-21 A</b>	<b>28-Jul-21</b>	<b>02-Aug-21</b>	<b>28-Sep-21</b>		<b>41</b>	<b>\$151,316</b>																													
P252P66	Procure Controller, Gauge, MKS 937B, Base	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone																												
P252P71	Procure Controller, Gauge, MKS 937B, Plug-in Controller Board for Cold Cathode Sensor	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone																												
P252P36	Procure Ion Pump, TITAN 300L	01-Jun-21	21-Jun-21	02-Aug-21	20-Aug-21	0%	15	\$462	Chris Stone																												
P252P61	Procure Gauge, 431 Cold Cathode Sensor, 2-3/4 inches CF	01-Jun-21	21-Jun-21	02-Aug-21	20-Aug-21	0%	15	\$462	Chris Stone																												
P252P76	Procure Misc Hardware	01-Jun-21	21-Jun-21	02-Aug-21	20-Aug-21	0%	15	\$462	Chris Stone																												
P252P146	Fabricate Controller, Gauge, MKS 937B, Base	16-Jun-21	07-Jul-21	23-Aug-21	13-Sep-21	0%	15	\$0	Chris Stone																												
P252P151	Fabricate Controller, Gauge, MKS 937B, Plug-in Controller Board for Cold Cathode Sensor	16-Jun-21	07-Jul-21	23-Aug-21	13-Sep-21	0%	15	\$0	Chris Stone																												
P252P116	Fabricate Ion Pump, TITAN 300L	22-Jun-21	27-Jul-21	23-Aug-21	27-Sep-21	0%	25	\$0	Chris Stone																												
P252P141	Fabricate Gauge, 431 Cold Cathode Sensor, 2-3/4 inches CF	22-Jun-21	13-Jul-21	23-Aug-21	13-Sep-21	0%	15	\$0	Chris Stone																												
P252P156	Fabricate Misc Hardware	22-Jun-21	06-Jul-21	23-Aug-21	03-Sep-21	0%	10	\$0	Chris Stone																												
P252P181	Receive Misc Hardware	07-Jul-21	07-Jul-21	07-Sep-21	07-Sep-21	0%	1	\$26,260	Chris Stone																												
P252P171	Receive Controller, Gauge, MKS 937B, Base	08-Jul-21	08-Jul-21	14-Sep-21	14-Sep-21	0%	1	\$5,751	Chris Stone																												
P252P176	Receive Controller, Gauge, MKS 937B, Plug-in Controller Board for Cold Cathode Sensor	08-Jul-21	08-Jul-21	14-Sep-21	14-Sep-21	0%	1	\$6,807	Chris Stone																												
P252P166	Receive Gauge, 431 Cold Cathode Sensor, 2-3/4 inches CF	14-Jul-21	14-Jul-21	14-Sep-21	14-Sep-21	0%	1	\$8,721	Chris Stone																												
P252P121	Receive Ion Pump, TITAN 300L	28-Jul-21	28-Jul-21	28-Sep-21	28-Sep-21	0%	1	\$101,469	Chris Stone																												
<b>P02.05.02.04 Installation - Beamline Vacuum</b>		<b>08-Aug-22</b>	<b>02-Sep-22</b>	<b>08-Aug-22</b>	<b>02-Sep-22</b>		<b>20</b>	<b>\$28,558</b>																													
P252I86	Installation of Beamline Vacuum (Labor , Internal)	08-Aug-22	02-Sep-22	08-Aug-22	02-Sep-22	0%	20	\$28,558	Chris Stone																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2524IMS001	P.02.05.02.04_Installation Complete		02-Sep-22		02-Sep-22	0%	0	\$0	Chris Stone															
P2524IMS006	P.02.05.02.04_Operational procedures updated for Beamline Vacuum		02-Sep-22		02-Sep-22	0%	0	\$0	Chris Stone															
<b>P02.05.03 Insulating Vacuum System</b>		01-May-18 A	02-Sep-22	01-May-18	02-Sep-22		314	\$563,222																
<b>P02.05.03.02 Design - Insulating Vacuum System</b>		01-May-18 A	11-Jan-19 A	01-May-18	11-Jan-19		0	\$0																
P253D156	Vacuum Design Effort (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Stone															
P253D161	Mechanical Design Effort (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Stone															
P253D165	Vacuum Design Effort (Oct through Remain)	01-Oct-18 A	11-Jan-19 A	01-Oct-18	11-Jan-19	100%	0	\$0	Chris Stone															
P253D170	Mechanical Design Effort (Oct through Remain)	01-Oct-18 A	11-Jan-19 A	01-Oct-18	11-Jan-19	100%	0	\$0	Chris Stone															
<b>P02.05.03.03 Procure/Fab - Insulating Vacuum System</b>		03-May-21 A	17-Sep-21	02-Aug-21	23-Nov-21		77	\$448,992																
P253P111	Procure Controller, Gauge, MKS 937B, Plug-in Controller Board for 2 Convection Pirani Sensors and Base	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$92	Chris Stone															
P253P36	Procure Pump, Screwline SP250 Cart (no blower)	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P41	Procure Turbo Pump, HiPace 700, DN100 CF-F, TCP350, 48V DC	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P51	Procure Pump, Turbo, Accessory, Air cooling kit for HiPace 400/700 with TC 400	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$92	Chris Stone															
P253P56	Procure Pump, Turbo, Accessory, DN100 CF-F Splinter Screen	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$92	Chris Stone															
P253P66	Procure Cable, Pump, TCP350-HiPace 400-700 (M12), 50m	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P71	Procure Valve, Gate, GV-4000V-P-01-03-05 (Turbo Isolation Valves)	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P76	Procure Valve, Gate, GV-4000V-P-01-03-05 (Klystron Manifold Valves)	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P81	Procure Valve, Gate, GV-1500V-P-01-03-05 (Foreline Isolation Valves)	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P86	Procure Valve, Series 22 Manual 1in In-Line Aluminum Valve with KF25 Ports	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P91	Procure Gauge, 431 Cold Cathode Sensor, 2-3/4 inches CF	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P96	Procure Gauge, 317 Shielded Convection-Enhanced Pirani Sensor, KF25	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$92	Chris Stone															
P253P101	Procure Controller, Gauge, MKS 937B, 2CC, 2TC	03-May-21 A	15-Jun-21	02-Aug-21	20-Aug-21	25%	11	\$462	Chris Stone															
P253P116	Procure Manifold section for chases and klystrons and 10' Manifold sections	01-Jun-21	21-Jun-21	02-Aug-21	20-Aug-21	0%	15	\$462	Chris Stone															
P253P126	Procure Misc Hardware	01-Jun-21	21-Jun-21	02-Aug-21	20-Aug-21	0%	15	\$462	Chris Stone															
P253P46	Fabricate Turbo Pump, HiPace 700, DN100 CF-F, TCP350, 48V DC	16-Jun-21	16-Sep-21	23-Aug-21	22-Nov-21	0%	65	\$0	Chris Stone															
P253P156	Fabricate Controller, Gauge, MKS 937B, Plug-in Controller Board for 2 Convection Pirani Sensors and base	16-Jun-21	28-Jul-21	23-Aug-21	04-Oct-21	0%	30	\$0	Chris Stone															
P253P186	Fabricate Pump, Screwline SP250 Cart (no blower)	16-Jun-21	18-Aug-21	23-Aug-21	25-Oct-21	0%	45	\$0	Chris Stone															
P253P191	Fabricate Pump, Turbo, Accessory, Air cooling kit for HiPace 400/700 with TC 400	16-Jun-21	16-Sep-21	23-Aug-21	22-Nov-21	0%	65	\$0	Chris Stone															
P253P196	Fabricate Pump, Turbo, Accessory, DN100 CF-F Splinter Screen	16-Jun-21	16-Sep-21	23-Aug-21	22-Nov-21	0%	65	\$0	Chris Stone															
P253P141	Fabricate Cable, Pump, TCP350-HiPace 400-700 (M12), 50m	16-Jun-21	16-Sep-21	23-Aug-21	22-Nov-21	0%	65	\$0	Chris Stone															
P253P216	Fabricate Valve, Series 22 Manual 1in In-Line Aluminum Valve with KF25 Ports	16-Jun-21	07-Jul-21	23-Aug-21	13-Sep-21	0%	15	\$0	Chris Stone															
P253P211	Fabricate Valve, Gate, GV-4000V-P-01-03-05 (Turbo Isolation Valves)	16-Jun-21	04-Aug-21	23-Aug-21	11-Oct-21	0%	35	\$0	Chris Stone															
P253P206	Fabricate Valve, Gate, GV-4000V-P-01-03-05 (Klystron Manifold Valves)	16-Jun-21	04-Aug-21	23-Aug-21	11-Oct-21	0%	35	\$0	Chris Stone															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Budget Data (FY2016-FY2028)																																									
										FY2016				FY2017				FY2018				FY2019				FY2020				FY2021				FY2022				FY2023				FY2024				FY2025				FY2026	
P253P201	Fabricate Valve, Gate, GV-1500V-P-01-03-05 (Foreline Isolation Valves)	16-Jun-21	04-Aug-21	23-Aug-21	11-Oct-21	0%	35	\$0	Chris Stone	[Gantt bar for P253P201]																																									
P253P171	Fabricate Gauge, 431 Cold Cathode Sensor, 2-3/4 inches CF	16-Jun-21	04-Aug-21	23-Aug-21	11-Oct-21	0%	35	\$0	Chris Stone	[Gantt bar for P253P171]																																									
P253P166	Fabricate Gauge, 317 Shielded Convection-Enhanced Pirani Sensor, KF25	16-Jun-21	04-Aug-21	23-Aug-21	11-Oct-21	0%	35	\$0	Chris Stone	[Gantt bar for P253P166]																																									
P253P146	Fabricate Controller, Gauge, MKS 937B, 2CC, 2TC	16-Jun-21	04-Aug-21	23-Aug-21	11-Oct-21	0%	35	\$0	Chris Stone	[Gantt bar for P253P146]																																									
P253P136	Fabricate Manifold section for chases and klystrons and 10' Manifold sections	22-Jun-21	03-Aug-21	23-Aug-21	04-Oct-21	0%	30	\$0	Chris Stone	[Gantt bar for P253P136]																																									
P253P181	Fabricate Misc Hardware	22-Jun-21	10-Aug-21	23-Aug-21	11-Oct-21	0%	35	\$0	Chris Stone	[Gantt bar for P253P181]																																									
P253P221	Receive Valve, Series 22 Manual 1in In-Line Aluminum Valve with KF25 Ports	08-Jul-21	08-Jul-21	14-Sep-21	14-Sep-21	0%	1	\$1,765	Chris Stone	[Gantt bar for P253P221]																																									
P253P266	Receive Controller, Gauge, MKS 937B, Plug-in Controller Board for 2 Convection Pirani Sensors and base	29-Jul-21	29-Jul-21	05-Oct-21	05-Oct-21	0%	1	\$3,020	Chris Stone	[Gantt bar for P253P266]																																									
P253P276	Receive Manifold section for chases and klystrons and 10' Manifold sections	04-Aug-21	04-Aug-21	05-Oct-21	05-Oct-21	0%	1	\$91,865	Chris Stone	[Gantt bar for P253P276]																																									
P253P226	Receive Valve, Gate, GV-4000V-P-01-03-05 (Turbo Isolation Valves)	05-Aug-21	05-Aug-21	12-Oct-21	12-Oct-21	0%	1	\$25,531	Chris Stone	[Gantt bar for P253P226]																																									
P253P231	Receive Valve, Gate, GV-4000V-P-01-03-05 (Klystron Manifold Valves)	05-Aug-21	05-Aug-21	12-Oct-21	12-Oct-21	0%	1	\$13,970	Chris Stone	[Gantt bar for P253P231]																																									
P253P236	Receive Valve, Gate, GV-1500V-P-01-03-05 (Foreline Isolation Valves)	05-Aug-21	05-Aug-21	12-Oct-21	12-Oct-21	0%	1	\$3,522	Chris Stone	[Gantt bar for P253P236]																																									
P253P256	Receive Gauge, 431 Cold Cathode Sensor, 2-3/4 inches CF	05-Aug-21	05-Aug-21	12-Oct-21	12-Oct-21	0%	1	\$13,566	Chris Stone	[Gantt bar for P253P256]																																									
P253P261	Receive Gauge, 317 Shielded Convection-Enhanced Pirani Sensor, KF25	05-Aug-21	05-Aug-21	12-Oct-21	12-Oct-21	0%	1	\$5,939	Chris Stone	[Gantt bar for P253P261]																																									
P253P271	Receive Controller, Gauge, MKS 937B, 2CC, 2TC	05-Aug-21	05-Aug-21	12-Oct-21	12-Oct-21	0%	1	\$25,991	Chris Stone	[Gantt bar for P253P271]																																									
P253P246	Receive Misc Hardware	11-Aug-21	11-Aug-21	12-Oct-21	12-Oct-21	0%	1	\$26,260	Chris Stone	[Gantt bar for P253P246]																																									
P253P241	Receive Pump, Screwline SP250 Cart (no blower)	19-Aug-21	19-Aug-21	26-Oct-21	26-Oct-21	0%	1	\$103,479	Chris Stone	[Gantt bar for P253P241]																																									
P253P281	Receive Turbo Pump, HiPace 700, DN100 CF-F, TCP350, 48V DC	17-Sep-21	17-Sep-21	23-Nov-21	23-Nov-21	0%	1	\$110,843	Chris Stone	[Gantt bar for P253P281]																																									
P253P286	Receive Pump, Turbo, Accessory, Air cooling kit for HiPace 400/700 with TC 400	17-Sep-21	17-Sep-21	23-Nov-21	23-Nov-21	0%	1	\$2,388	Chris Stone	[Gantt bar for P253P286]																																									
P253P291	Receive Pump, Turbo, Accessory, DN100 CF-F Splinter Screen	17-Sep-21	17-Sep-21	23-Nov-21	23-Nov-21	0%	1	\$1,439	Chris Stone	[Gantt bar for P253P291]																																									
P253P296	Receive Cable, Pump, TCP350-HiPace 400-700 (M12), 50m	17-Sep-21	17-Sep-21	23-Nov-21	23-Nov-21	0%	1	\$13,967	Chris Stone	[Gantt bar for P253P296]																																									
<b>P02.05.03.04 Installation - Insulating Vacuum System</b>		08-Aug-22	02-Sep-22	08-Aug-22	02-Sep-22		20	\$114,230		[Summary bar for P02.05.03.04]																																									
P2531141	Installation of insulating vacuum (Labor, Internal)	08-Aug-22	02-Sep-22	08-Aug-22	02-Sep-22	0%	20	\$114,230	Chris Stone	[Gantt bar for P2531141]																																									
P2534IMS001	P.02.05.03.04_Installation Complete		02-Sep-22		02-Sep-22	0%	0	\$0	Chris Stone	[Gantt bar for P2534IMS001]																																									
P2534IMS006	P.02.05.03.04_Operational procedures updated for Insulating Vacuum System		02-Sep-22		02-Sep-22	0%	0	\$0	Chris Stone	[Gantt bar for P2534IMS006]																																									
<b>P02.05.04 Water Systems</b>		01-Jun-21	24-Apr-23	02-Aug-21	12-Apr-23		468	\$50,351		[Summary bar for P02.05.04]																																									
<b>P02.05.04.03 Procure/Fab - Water Systems</b>		01-Jun-21	07-Jul-21	02-Aug-21	07-Sep-21		26	\$16,327		[Summary bar for P02.05.04.03]																																									
P254P61	Procure materials for CM FP coupler cooling	01-Jun-21	21-Jun-21	02-Aug-21	20-Aug-21	0%	15	\$92	Chris Stone	[Gantt bar for P254P61]																																									
P254P66	Fabricate materials for CM FP coupler cooling	22-Jun-21	06-Jul-21	23-Aug-21	03-Sep-21	0%	10	\$0	Chris Stone	[Gantt bar for P254P66]																																									
P254P71	Receive materials for CM FP coupler cooling	07-Jul-21	07-Jul-21	07-Sep-21	07-Sep-21	0%	1	\$16,235	Chris Stone	[Gantt bar for P254P71]																																									
<b>P02.05.04.04 Installation - Water Systems</b>		08-Aug-22	24-Apr-23	08-Aug-22	12-Apr-23		174	\$34,023		[Summary bar for P02.05.04.04]																																									
P254I86	Install and test water hardware (CM 32 & 31)	08-Aug-22	26-Aug-22	08-Aug-22	26-Aug-22	0%	15	\$11,152	Chris Stone	[Gantt bar for P254I86]																																									
P254I91	Install and test water hardware (CM 30, 29 & 28)	01-Feb-23	21-Feb-23	01-Feb-23	21-Feb-23	0%	15	\$11,436	Chris Stone	[Gantt bar for P254I91]																																									









Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Budget Allocation																							
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028											
P2631176	CM 27 & 25 RF effort for CM installation	11-Mar-24	15-Mar-24	11-Mar-24	15-Mar-24	0%	5	\$5,125	Jeffrey Saunders																								
P263IMS01	Start installation of CM 25 & 27	11-Mar-24		11-Mar-24		0%	0	\$0	Jeffrey Saunders																								
P02.06.04 Cryomodule Testing In Tunnel		27-Sep-22	10-May-24	27-Sep-22	10-May-24		407	\$208,743																									
P02.06.04.05 Testing		27-Sep-22	10-May-24	27-Sep-22	10-May-24		407	\$208,743																									
P264P100	Test CM 32 & 31 - System Test	27-Sep-22	05-Oct-22	27-Sep-22	05-Oct-22	0%	7	\$57,933	Jeffrey Saunders																								
P264P105	Test CM 30, 29 & 28 - System Test	05-Apr-23	19-Apr-23	20-Apr-23	03-May-23	0%	10	\$89,274	Jeffrey Saunders																								
P264P110	Test CM 27 & 25 - System Test	02-May-24	10-May-24	02-May-24	10-May-24	0%	7	\$61,536	Jeffrey Saunders																								
P02.06.05 Plasma Process MB Cryomodule in Tunnel		03-Nov-20 A	29-Apr-21 A	03-Nov-20	13-May-22		0	\$201,797																									
P02.06.05.04 Installation - Plasma Process MB Cryomodule in Tunnel		03-Nov-20 A	29-Apr-21 A	03-Nov-20	13-May-22		0	\$201,797																									
P264I36	Plasma processing MB CM Part 1	03-Nov-20 A	13-Nov-20 A	03-Nov-20	02-Feb-21	100%	0	\$98,993	Jeffrey Saunders																								
P264I40	Plasma processing MB CM Part 2	05-Apr-21 A	29-Apr-21 A	18-Feb-22	13-May-22	100%	0	\$102,805	Jeffrey Saunders																								
P02.07 SCL Controls		03-Oct-16 A	06-May-24	03-Oct-16	06-May-24		724	\$1,271,921																									
P02.07.01 Management and System Integration - SCL Controls		03-Oct-16 A	25-Mar-24	03-Oct-16	25-Mar-24		695	\$206,785																									
P02.07.01.01 Management and System Integration - SCL Controls		03-Oct-16 A	25-Mar-24	03-Oct-16	25-Mar-24		695	\$206,785																									
P271M1	Management FY17 for P.2.7 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White																								
P271M40	Management FY18 for P.2.7 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White																								
P271M6	Management FY18 for P.2.7 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White																								
P271M11	Management FY19 for P.2.7 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Karen White																								
P271M11b	Management FY19 for P.2.7 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White																								
P271M11c	Management FY19 for P.2.7 (LOE) Continued (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White																								
P271M16a	Management FY20 for P.2.7 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White																								
P271M16b	Management FY20 for P.2.7 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White																								
P271M21a	Management FY21 for P.2.7 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White																								
P271MS302	Aaron Provides Specs/Drawings for the Six Cryo/Tuner Racks To Barnett (MS)		02-Nov-20 A		02-Nov-20	100%	0	\$0	Karen White																								
P271MS306	Aaron Provides Specs/Drawings for the Two Marshalling Cabinets To Barnett (MS)		02-Nov-20 A		02-Nov-20	100%	0	\$0	Karen White																								
P271M21b	Management FY21 for P.2.7 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$60,194	Karen White																								
P271M26	Management FY22 for P.2.7 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$69,583	Karen White																								
P271M31	Management FY23 for P.2.7 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$72,340	Karen White																								
P271M36	Management FY24 for P.2.7 (LOE)	02-Oct-23	25-Mar-24	02-Oct-23	25-Mar-24	0%	117	\$4,668	Karen White																								
P02.07.02 Linac Beamline Vacuum Controls		25-Jun-18 A	19-Apr-24	25-Jun-18	19-Apr-24		713	\$133,971																									
P02.07.02.02 Design - Linac Beamline Vacuum Controls		25-Jun-18 A	24-Jun-21	25-Jun-18	30-Nov-20		18	\$9,174																									
P272D36	SCL Design & draft drawings for System 7 (May through Sep)	25-Jun-18 A	28-Sep-18 A	25-Jun-18	28-Sep-18	100%	0	\$0	Karen White																								
P272D41	SCL Design & draft drawings for System 8 (May through Sep)	25-Jun-18 A	28-Sep-18 A	25-Jun-18	28-Sep-18	100%	0	\$0	Karen White																								

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Budgets																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29														
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P272D55	SCL Design & draft drawings for System 7 (Oct through Remain)	01-Oct-18 A	23-Jan-19 A	01-Oct-18	23-Jan-19	100%	0	\$0	Karen White																												
P272D60	SCL Design & draft drawings for System 8 (Oct through Remain)	01-Oct-18 A	23-Jan-19 A	01-Oct-18	23-Jan-19	100%	0	\$0	Karen White																												
P272D65	SCL Design & draft drawings for new ion pump control interface	01-Jun-21	24-Jun-21	03-Nov-20	30-Nov-20	0%	18	\$9,174	Karen White																												
<b>P02.07.02.04 Installation - Linac Beamline Vacuum Controls</b>		<b>04-Jan-21 A</b>	<b>19-Apr-24</b>	<b>02-Nov-20</b>	<b>19-Apr-24</b>		<b>713</b>	<b>\$124,797</b>																													
P272I56	SCL Develop Test Plans	04-Jan-21 A	15-Jan-21 A	02-Nov-20	13-Nov-20	100%	0	\$7,159	Karen White																												
P272I112	Shop Testing of complete vacuum rack assembly	29-Mar-21 A	01-Jun-21	16-Nov-20	15-Dec-20	60%	1	\$19,518	Karen White																												
P272I131	SCL Control Software Development- System 9 (Phase 1)	01-Apr-21 A	15-Apr-21 A	11-Mar-21	24-Mar-21	100%	0	\$4,880	Karen White																												
P272I121	SCL Control Software Development- System 7 (Phase 3)	01-Jun-21	14-Jun-21	25-Mar-21	08-Apr-21	0%	10	\$4,880	Karen White																												
P272I126	SCL Control Software Development- System 8 (Phase 2)	15-Jun-21	28-Jun-21	09-Apr-21	22-Apr-21	0%	10	\$4,880	Karen White																												
P272I136	EPICS Software Development	29-Jun-21	20-Jul-21	23-Apr-21	13-May-21	0%	15	\$11,223	Karen White																												
P272I181	Field testing of the installed rack with beamline vacuum components	07-Dec-21	20-Dec-21	07-Dec-21	20-Dec-21	0%	10	\$10,129	Karen White																												
P272I191	SCL Install PLC and Interface Chassis System 8 (Phase 2) in existing Row 35	10-Dec-21	16-Dec-21	27-Oct-21	02-Nov-21	0%	5	\$1,241	Karen White																												
P272I141	SCL Install vacuum controllers for System 7 (Phase 3) in existing row 30	23-Mar-22	24-Mar-22	09-Feb-22	10-Feb-22	0%	2	\$1,241	Karen White																												
P272I276	SCL Checkout BL Vacuum System 9 (Phase 1)	11-Apr-22	25-Apr-22	11-Apr-22	25-Apr-22	0%	10	\$7,597	Karen White																												
P272I316	Final BL vac ctrls check CM31 (Phase 1)	13-Sep-22	16-Sep-22	13-Sep-22	16-Sep-22	0%	4	\$4,052	Karen White																												
P272I321	Final BL vac ctrls check CM32 (Phase 1)	13-Sep-22	16-Sep-22	13-Sep-22	16-Sep-22	0%	4	\$4,052	Karen White																												
P272I61	SCL Title III Design support (support procurement- construction supervision- etc.)	13-Sep-22	26-Sep-22	13-Sep-22	26-Sep-22	0%	10	\$5,064	Karen White																												
P272I186	Field testing of the installed rack with cryomodule vacuum components	13-Sep-22	16-Sep-22	13-Sep-22	16-Sep-22	0%	4	\$2,026	Karen White																												
P272I271	SCL Checkout BL Vacuum System 8 (Phase 2)	20-Sep-22	03-Oct-22	20-Sep-22	03-Oct-22	0%	10	\$7,625	Karen White																												
P272I301	Final BL vac ctrls check CM28 (Phase 2)	15-Mar-23	20-Mar-23	15-Mar-23	20-Mar-23	0%	4	\$4,205	Karen White																												
P272I306	Final BL vac ctrls check CM29 (Phase 2)	15-Mar-23	20-Mar-23	15-Mar-23	20-Mar-23	0%	4	\$4,205	Karen White																												
P272I311	Final BL vac ctrls check CM30 (Phase 2)	15-Mar-23	20-Mar-23	15-Mar-23	20-Mar-23	0%	4	\$4,205	Karen White																												
P272I266	SCL Checkout BL Vacuum System 7 (Phase 3)	20-Apr-23	03-May-23	20-Apr-23	03-May-23	0%	10	\$7,885	Karen White																												
P272I286	Final BL vac ctrls check CM25 (Phase 3)	16-Apr-24	19-Apr-24	16-Apr-24	19-Apr-24	0%	4	\$4,365	Karen White																												
P272I296	Final BL vac ctrls check CM27 (Phase 3)	16-Apr-24	19-Apr-24	16-Apr-24	19-Apr-24	0%	4	\$4,365	Karen White																												
<b>P02.07.03 Linac Insulating Vacuum System Controls</b>		<b>01-Aug-18 A</b>	<b>06-May-24</b>	<b>01-Aug-18</b>	<b>06-May-24</b>		<b>724</b>	<b>\$181,673</b>																													
<b>P02.07.03.02 Design - Linac Insulating Vacuum System Controls</b>		<b>01-Aug-18 A</b>	<b>20-Nov-18 A</b>	<b>01-Aug-18</b>	<b>20-Nov-18</b>		<b>0</b>	<b>\$0</b>																													
P273D36	INS Design & draft drawings for System 7 (May through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Karen White																												
P273D61	Specify Lin Insul Vac Ctrls Cables for installation with other cable pulls	01-Aug-18 A	07-Aug-18 A	01-Aug-18	07-Aug-18	100%	0	\$0	Karen White																												
P273D46	INS Vac Design & draft drawings for System 8 (May through Sep)	15-Aug-18 A	28-Sep-18 A	15-Aug-18	28-Sep-18	100%	0	\$0	Karen White																												
P273D65	INS Design & draft drawings for System 7 (Oct through Remain)	01-Oct-18 A	20-Nov-18 A	01-Oct-18	20-Nov-18	100%	0	\$0	Karen White																												
P273D70	INS Vac Design & draft drawings for System 8 (Oct through Remain)	01-Oct-18 A	20-Nov-18 A	01-Oct-18	20-Nov-18	100%	0	\$0	Karen White																												
<b>P02.07.03.04 Installation - Linac Insulating Vacuum System Controls</b>		<b>26-Oct-20 A</b>	<b>06-May-24</b>	<b>26-Oct-20</b>	<b>06-May-24</b>		<b>724</b>	<b>\$181,673</b>																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P273106a	INS Control Software Development- System 7 PLC	26-Oct-20 A	30-Oct-20 A	26-Oct-20	30-Oct-20	100%	0	\$0	Karen White														
P273156a	INS Develop Test Plans	27-Oct-20 A	30-Oct-20 A	27-Oct-20	30-Oct-20	100%	0	\$0	Karen White														
P273106b	INS Control Software Development- System 7 PLC Continued	02-Nov-20 A	08-Dec-20 A	02-Nov-20	09-Nov-20	100%	0	\$4,067	Karen White														
P273156b	INS Develop Test Plans Continued	02-Nov-20 A	04-Dec-20 A	02-Nov-20	05-Nov-20	100%	0	\$2,711	Karen White														
P2731116	INS Control Software Development- System 8 PLC	01-Feb-21 A	26-Mar-21 A	10-Nov-20	21-Jan-21	100%	0	\$4,623	Karen White														
P2731111	INS Control Software Development- System 7 EPICS	29-Mar-21 A	23-Jun-21	10-Nov-20	21-Jan-21	80%	17	\$5,612	Karen White														
P2731131	In-House Testing of Completed System 7 Vacuum Rack	29-Mar-21 A	01-Jun-21	02-Nov-20	15-Dec-20	70%	1	\$35,892	Karen White														
P2731121	INS Control Software Development- System 8 EPICS	01-Apr-21 A	25-Jun-21	22-Jan-21	18-Mar-21	80%	19	\$5,612	Karen White														
P2731156	In-House Testing of Completed System 8 Vacuum Rack	21-Apr-21 A	01-Jun-21	16-Dec-20	10-Feb-21	70%	1	\$35,892	Karen White														
P2731186	INS Checkout Vacuum System 7 after connecting to 2 Large Roughing Pumps (Phase 1)	08-Aug-22	19-Aug-22	08-Aug-22	19-Aug-22	0%	10	\$15,936	Karen White														
P2731191	INS Checkout Vacuum System 8 after connecting to CM32 and 31 (Phase 1)	13-Sep-22	26-Sep-22	13-Sep-22	26-Sep-22	0%	10	\$15,936	Karen White														
P2731187	INS Checkout Vacuum System 7 after connecting to CM 28 (Phase 2)	15-Mar-23	28-Mar-23	15-Mar-23	28-Mar-23	0%	10	\$16,546	Karen White														
P2731211	INS Checkout Vacuum System 8 after connecting to CM30 and 29 (Phase 2)	15-Mar-23	28-Mar-23	15-Mar-23	28-Mar-23	0%	10	\$16,546	Karen White														
P2731188	INS Checkout Vacuum System 7 after connecting to CM27 and 25 (Phase 3)	16-Apr-24	29-Apr-24	16-Apr-24	29-Apr-24	0%	10	\$17,177	Karen White														
P2734IMS001	P.02.07.03.04_Installation Complete		29-Apr-24		29-Apr-24	0%	0	\$0	Karen White														
P273D41	INS Title III Design support (redline drawings from installation)	30-Apr-24	06-May-24	30-Apr-24	06-May-24	0%	5	\$5,125	Karen White														
P2734IMS006	P.02.07.03.04_Operational procedures updated for Linac Insulating Vacuum System Controls		06-May-24		06-May-24	0%	0	\$0	Karen White														
<b>P02.07.04 Cryomodule Controls</b>		<b>15-May-18 A</b>	<b>26-Mar-24</b>	<b>15-May-18</b>	<b>26-Mar-24</b>		<b>621</b>	<b>\$749,491</b>															
<b>P02.07.04.02 Design - Cryomodule Controls</b>		<b>15-May-18 A</b>	<b>31-Mar-19 A</b>	<b>15-May-18</b>	<b>31-Mar-19</b>		<b>0</b>	<b>\$0</b>															
P274D90	Evaluate and incorporate new design elements (May through Sep)	15-May-18 A	28-Sep-18 A	15-May-18	28-Sep-18	100%	0	\$0	Karen White														
P274D95	Create phase 1 original drawings and documentation (May through Sep)	15-May-18 A	28-Sep-18 A	15-May-18	28-Sep-18	100%	0	\$0	Karen White														
P274D130	Evaluate and incorporate new design elements test articles (Oct through Remain)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White														
P274D135	Create phase 1 original drawings and documentation (Oct through Remain)	01-Oct-18 A	21-Dec-18 A	01-Oct-18	21-Dec-18	100%	0	\$0	Karen White														
P274D100	Replicate remaining drawings and documentation	05-Dec-18 A	31-Mar-19 A	05-Dec-18	31-Mar-19	100%	0	\$0	Karen White														
P274MS001	Cryomodule Cntrl Design Complete		29-Mar-19 A		29-Mar-19	100%	0	\$0	Karen White														
<b>P02.07.04.04 Installation - Cryomodule Controls</b>		<b>16-Sep-21</b>	<b>26-Mar-24</b>	<b>30-Apr-21</b>	<b>26-Mar-24</b>		<b>621</b>	<b>\$749,491</b>															
P2744IMS001	P.02.07.04.04_Installation Complete		21-Feb-23		04-Apr-23	0%	0	\$0	Karen White														
P2744IMS006	P.02.07.04.04_Operational procedures updated for Cryomodule Controls		21-Feb-23		04-Apr-23	0%	0	\$0	Karen White														
<b>P02.07.04.04.01 CMs 32 and 31 Controls</b>		<b>16-Sep-21</b>	<b>23-Aug-22</b>	<b>30-Apr-21</b>	<b>23-Aug-22</b>		<b>231</b>	<b>\$222,843</b>															
P274I106	Marshalling Panel Testing and Checkout at Vendors (Phase 1)	16-Sep-21	27-Sep-21	30-Apr-21	11-May-21	0%	8	\$6,725	Karen White														
P274MS286	P3.7: Marshalling Panel Klystron Gallery Installation (Phase 1) Begins	29-Sep-21		06-Jul-21		0%	0	\$0	Karen White														
P274I116	Cryo/Tuner Racks Testing and Checkout at Vendors (Phase 1)	21-Oct-21	01-Nov-21	30-Apr-21	11-May-21	0%	8	\$5,000	Karen White														
P274MS236	P3.7: Cable pull for CM 32/31 from Klystron Gallery to Linac Completed		02-Nov-21		02-Nov-21	0%	0	\$0	Karen White														



May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 10:08																			
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29							
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P274I131	Klystron Gallery Equipment Installation CM 32/31 (Cntrl Support)	03-Nov-21	12-Nov-21	06-Jul-21	15-Jul-21	0%	8	\$2,499	Karen White																					
P274MS266	P3.7: 3 Cryo/Tuner Racks Klystron Gallery Installation (Phase 1) Begins	03-Nov-21		06-Jul-21		0%	0	\$0	Karen White																					
P274I121	EPICS software development coding CM32	15-Nov-21	07-Feb-22	16-Jul-21	27-Sep-21	0%	51	\$30,046	Karen White																					
P274I126	PLC software development coding CM32	15-Nov-21	07-Feb-22	16-Jul-21	27-Sep-21	0%	51	\$26,702	Karen White																					
P274I141b	Klystron Gallery cable termination CM 32/31 (Cntrl Support)	22-Dec-21	24-Jan-22	22-Dec-21	24-Jan-22	0%	16	\$9,372	Karen White																					
P274MS206	P3.7: Klystron Gallery cable termination CM 32/31 Begins	22-Dec-21		22-Dec-21		0%	0	\$0	Karen White																					
P274I186	PLC software development coding CM31	08-Feb-22	20-Apr-22	28-Sep-21	09-Dec-21	0%	51	\$26,702	Karen White																					
P274I161	EPICS software development coding CM31	08-Feb-22	20-Apr-22	28-Sep-21	09-Dec-21	0%	51	\$30,046	Karen White																					
P274I191b	Linac cable Tunnel terminations (to BLI) CM 31 (Cntrl Support)	21-Mar-22	30-Mar-22	21-Mar-22	30-Mar-22	0%	8	\$14,058	Karen White																					
P274I196b	Linac cable Tunnel terminations (to BLI) CM 32 (Cntrl Support)	21-Mar-22	30-Mar-22	21-Mar-22	30-Mar-22	0%	8	\$14,999	Karen White																					
P274MS007	P3.7: Linac cable Tunnel terminations CM 32/31 Begins	21-Mar-22		21-Mar-22		0%	0	\$0	Karen White																					
P274I36	Cryomodule Cntrl Installation Checkout (CM 32/31)	08-Aug-22	22-Aug-22	08-Aug-22	22-Aug-22	0%	11	\$53,855	Karen White																					
P274I76	Cryomodule Cntrl Final Checkout (CM 31)	23-Aug-22	23-Aug-22	23-Aug-22	23-Aug-22	0%	1	\$1,335	Karen White																					
P274I81	Cryomodule Cntrl Final Checkout (CM 32)	23-Aug-22	23-Aug-22	23-Aug-22	23-Aug-22	0%	1	\$1,502	Karen White																					
P02.07.04.04.02 CMs 30, 29, 28 Controls		01-Dec-21	21-Feb-23	14-Oct-21	04-Apr-23		298	\$297,560																						
P274I118	Cryo/Tuner Racks Testing and Checkout at Vendors (Phase 2)	01-Dec-21	10-Dec-21	14-Oct-21	25-Oct-21	0%	8	\$4,686	Karen White																					
P274I108	Marshalling Panel Testing and Checkout at Vendors (Phase 2)	01-Dec-21	10-Dec-21	14-Oct-21	25-Oct-21	0%	8	\$6,869	Karen White																					
P274I135	Klystron Gallery Equipment Installation CM 30/29/28 (Cntrl Support)	14-Dec-21	03-Jan-22	27-Oct-21	05-Nov-21	0%	8	\$2,499	Karen White																					
P274MS276	P3.7: 3 Cryo/Tuner Racks Klystron Gallery Installation (Phase 2) Begins	14-Dec-21		27-Oct-21		0%	0	\$0	Karen White																					
P274MS296	P3.7: Marshalling Panel Klystron Gallery Installation (Phase 2) Begins	14-Dec-21		27-Oct-21		0%	0	\$0	Karen White																					
P274I166	EPICS software development coding CM30	04-Jan-22	16-Mar-22	08-Nov-21	31-Jan-22	0%	51	\$24,392	Karen White																					
P274I171	EPICS software development coding CM29	04-Jan-22	16-Mar-22	08-Nov-21	31-Jan-22	0%	51	\$24,392	Karen White																					
P274I191	PLC software development coding CM30	04-Jan-22	16-Mar-22	08-Nov-21	31-Jan-22	0%	51	\$26,702	Karen White																					
P274I196	PLC software development coding CM29	04-Jan-22	16-Mar-22	08-Nov-21	31-Jan-22	0%	51	\$26,702	Karen White																					
P274I201	PLC software development coding CM28	04-Jan-22	16-Mar-22	08-Nov-21	31-Jan-22	0%	51	\$26,702	Karen White																					
P274I176	EPICS software development coding CM28	17-Mar-22	27-May-22	01-Feb-22	12-Apr-22	0%	51	\$24,392	Karen White																					
P274MS246	P3.7: Cable pull for CM 30/29/28 from Klystron Gallery to Linac Completed		17-Aug-22		17-Aug-22	0%	0	\$0	Karen White																					
P274I186b	Linac cable Tunnel terminations (to BLI) CM 30 (Cntrl Support)	18-Aug-22	29-Aug-22	18-Aug-22	29-Aug-22	0%	8	\$14,058	Karen White																					
P274MS014	P3.7: Linac cable Tunnel terminations CM 30/29/28 Begins	18-Aug-22		18-Aug-22		0%	0	\$0	Karen White																					
P274I181b	Linac cable Tunnel terminations (to BLI) CM 29 (Cntrl Support)	30-Aug-22	09-Sep-22	30-Aug-22	09-Sep-22	0%	8	\$11,903	Karen White																					
P274I176b	Linac cable Tunnel terminations (to BLI) CM 28 (Cntrl Support)	12-Sep-22	21-Sep-22	12-Sep-22	21-Sep-22	0%	8	\$14,058	Karen White																					
P274I146b	Klystron Gallery cable termination CM 30/29/28 (Cntrl Support)	17-Oct-22	17-Nov-22	17-Oct-22	17-Nov-22	0%	24	\$6,412	Karen White																					
P274MS216	P3.7: Klystron Gallery cable termination CM 30/29/28 Begins	17-Oct-22		17-Oct-22		0%	0	\$0	Karen White																					



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Allocation (FY2016 - FY2028)																												
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P274I41	Cryomodule Cntrl Installation Checkout (CM 30/29/28)	01-Feb-23	20-Feb-23	15-Mar-23	03-Apr-23	0%	14	\$79,630	Karen White																													
P274I61	Cryomodule Cntrl Final Checkout (CM 28)	21-Feb-23	21-Feb-23	04-Apr-23	04-Apr-23	0%	1	\$1,388	Karen White																													
P274I66	Cryomodule Cntrl Final Checkout (CM 29)	21-Feb-23	21-Feb-23	04-Apr-23	04-Apr-23	0%	1	\$1,388	Karen White																													
P274I71	Cryomodule Cntrl Final Checkout (CM 30)	21-Feb-23	21-Feb-23	04-Apr-23	04-Apr-23	0%	1	\$1,388	Karen White																													
<b>P02.07.04.04.03 CMs 27 and 25 Controls</b>		17-Mar-22	26-Mar-24	01-Feb-22	26-Mar-24		501	\$229,089																														
P274I206	PLC software development coding CM27	17-Mar-22	27-May-22	01-Feb-22	12-Apr-22	0%	51	\$26,702	Karen White																													
P274I151	Klystron Gallery Equipment Installation CM 27/25 (Cntrl Support)	23-Mar-22	01-Apr-22	09-Feb-22	18-Feb-22	0%	8	\$2,499	Karen White																													
P274I181	EPICS software development coding CM27	31-May-22	10-Aug-22	13-Apr-22	24-Jun-22	0%	51	\$24,392	Karen White																													
P274I211	PLC software development coding CM25	31-May-22	10-Aug-22	13-Apr-22	24-Jun-22	0%	51	\$43,391	Karen White																													
P274I156	EPICS software development coding CM25	11-Aug-22	21-Oct-22	27-Jun-22	07-Sep-22	0%	51	\$40,090	Karen White																													
P274MS256	P3.7: Cable pull for CM 27/25 from Klystron Gallery to Linac Completed		10-Feb-23		10-Feb-23	0%	0	\$0	Karen White																													
P274I171b	Linac cable Tunnel terminations (to BLI) CM 27 (Cntrl Support)	23-Feb-23	06-Mar-23	23-Feb-23	06-Mar-23	0%	8	\$14,427	Karen White																													
P274MS021	P3.7: Linac cable Tunnel terminations CM 27/25 Begins	23-Feb-23		23-Feb-23		0%	0	\$0	Karen White																													
P274I166b	Linac cable Tunnel terminations (to BLI) CM 25 (Cntrl Support)	07-Mar-23	16-Mar-23	07-Mar-23	16-Mar-23	0%	8	\$12,178	Karen White																													
P274I161b	Klystron Gallery cable termination CM 27/25 (Cntrl Support)	20-Apr-23	11-May-23	20-Apr-23	11-May-23	0%	16	\$6,412	Karen White																													
P274MS226	P3.7: Klystron Gallery cable termination CM 27/25 Begins	20-Apr-23		20-Apr-23		0%	0	\$0	Karen White																													
P274I46	Cryomodule Cntrl Installation Checkout (CM 27/25)	11-Mar-24	25-Mar-24	11-Mar-24	25-Mar-24	0%	11	\$56,113	Karen White																													
P274I51	Cryomodule Cntrl Final Checkout (CM 25)	26-Mar-24	26-Mar-24	26-Mar-24	26-Mar-24	0%	1	\$1,442	Karen White																													
P274I56	Cryomodule Cntrl Final Checkout (CM 27)	26-Mar-24	26-Mar-24	26-Mar-24	26-Mar-24	0%	1	\$1,442	Karen White																													
<b>P03 RF Systems</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$29,193,617																														
<b>P03.01 Management and System Integration - RF Systems</b>		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$243,024																														
P03FDR3b	P.3 CD3b Final Design Complete (Excluding LLRF, RFQ-Mod1 and KL04)		23-Aug-19 A		23-Aug-19	100%	0	\$0	John Moss																													
P03FDR2	P.3 CD3 Final Design Complete (Excluding LLRF and RFQ-Mod1)		24-Sep-19 A		24-Sep-19	100%	0	\$0	John Moss																													
P03PDC	P.3 Preliminary Designs Complete		06-Dec-19 A		06-Dec-19	100%	0	\$0	John Moss																													
P03FDR3	P.3 Final Design Complete (LLRF and RFQ-Mod1) (MS)		22-Sep-20 A		22-Sep-20	100%	0	\$0	John Moss																													
P03T3C	P.3 Linac Protection System Title III Complete (MS)		02-Nov-21		03-Sep-21	0%	0	\$0	John Moss																													
P311_RDY1	RF Ready for CM 32 and 31 Testing (MS)		19-Sep-22		19-Sep-22	0%	0	\$0	John Moss																													
P311MS10	P.03 RF Integrated Systems Testing Phase 1 Complete (MS)		03-Oct-22		03-Oct-22	0%	0	\$0	John Moss																													
P311MS008	P.03 RF Documentation for IRR/ERR Phase 1 Complete (MS)		10-Oct-22		10-Oct-22	0%	0	\$0	John Moss																													
P311_RDY2	RF Ready for CM 30, 29, & 28 Testing (MS)		22-Mar-23		22-Mar-23	0%	0	\$0	John Moss																													
P311MS20	P.03 RF Integrated Systems Testing Phase 2 Complete (MS)		12-Apr-23		26-Apr-23	0%	0	\$0	John Moss																													
P311MS009	P.03 RF Documentation for ARR Phase 2 Complete (MS)		16-Aug-23		16-Aug-23	0%	0	\$0	John Moss																													
P311_RDY3	RF Ready for CM 25 and 27 Testing (MS)		23-Apr-24		23-Apr-24	0%	0	\$0	John Moss																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P311MS30	P.03 RF Integrated Systems Testing Phase 3 Complete (MS)		08-May-24		08-May-24	0%	0	\$0	John Moss															
P311MS010	P.03 RF Documentation for IRR/ERR Phase 3 Complete (MS)		14-May-24		14-May-24	0%	0	\$0	John Moss															
P03.01.01 Management and System Integration - RF Systems - (NEP31100)		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$243,024																
P311M1	Manage P.3 WBS FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	John Moss															
P311M4	Manage P.3 WBS FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	John Moss															
P311M6	Manage P.3 WBS FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	John Moss															
P311M11	Manage P.3 WBS FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	John Moss															
P311M11B	Manage P.3 WBS FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	John Moss															
P311M11C	Manage P.3 WBS FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	John Moss															
P311M16	Manage P.3 WBS FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	John Moss															
P311M16a	Manage P.3 WBS FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	John Moss															
P311M21	Manage P.3 WBS FY21 (LOE) Part 1 (Oct20 only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	John Moss															
P311M21a	Manage P.3 WBS FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$45,075	John Moss															
P311M21b	Manage P.3 WBS FY21 (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$66,802	John Moss															
P311M26	Manage P.3 WBS FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$79,836	John Moss															
P311M31	Manage P.3 WBS FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$20,753	John Moss															
P311M36	Manage P.3 WBS FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$21,581	John Moss															
P311M46	Manage P.3 WBS FY25 (LOE) (Closeout)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$8,977	John Moss															
P03.02 SCL HPRF		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$8,985,661																
P03.02.01 Management and System Integration - SCL HPRF		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		411	\$37,519																
P03.02.01.01 Management and System Integration - SCL HPRF - (NEP32110)		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		411	\$37,519																
P321M1	WBS Management P.3.2 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	John Moss															
P321M4	WBS Management P.3.2 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	John Moss															
P321M6	WBS Management P.3.2 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	John Moss															
P321M11	WBS Management P.3.2 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	John Moss															
P321M41	HPRF System Final Design Review (FDR)	27-Feb-19 A	28-Feb-19 A	27-Feb-19	28-Feb-19	100%	0	\$0	John Moss															
P321M001	P.3.2 and P.3.3 Organize and Verify Documentation for Phase 1 ARR	13-Sep-22	10-Oct-22	13-Sep-22	10-Oct-22	0%	20	\$12,118	John Moss															
P321M002	P.3.2 and P.3.3 Organize and Verify Documentation for Phase 2 ARR	16-Mar-23	13-Apr-23	16-Mar-23	13-Apr-23	0%	20	\$12,452	John Moss															
P321M003	P.3.2 and P.3.3 Organize and Verify Documentation for Phase 3 ARR	17-Apr-24	14-May-24	17-Apr-24	14-May-24	0%	20	\$12,949	John Moss															
P03.02.02 Transmitters (SCL)		21-Aug-18 A	06-Nov-23	21-Aug-18	06-Nov-23		604	\$2,336,314																
P03.02.02.02 Design - Transmitters (SCL) - (NEP3220)		21-Aug-18 A	26-Jan-22	21-Aug-18	08-Nov-21		160	\$2,059,942																
P322D16	Generate Interface Documents For Transmitters	21-Aug-18 A	31-Aug-18 A	21-Aug-18	31-Aug-18	100%	0	\$0	John Moss															
P322D11	Review and Modify Existing Transmitter Spec. - Part 1	04-Sep-18 A	28-Sep-18 A	04-Sep-18	28-Sep-18	100%	0	\$0	John Moss															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P322D11B	Review and Modify Existing Transmitter Spec. - Continued 50%	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	John Moss															
P322MS001	Complete transmitter bid package		31-Oct-18 A		31-Oct-18	100%	0	\$0	John Moss															
P322D41	Prep for and Conduct Transmitter Procurement Readiness Review (PRR)	01-Nov-18 A	05-Nov-18 A	01-Nov-18	05-Nov-18	100%	0	\$0	John Moss															
P322D21	Generate Requisition for Transmitter Design/Engineering	06-Nov-18 A	06-Nov-18 A	06-Nov-18	06-Nov-18	100%	0	\$0	John Moss															
P322D26	Procurement of Transmitter Design/Engineering	07-Nov-18 A	29-Mar-19 A	07-Nov-18	29-Mar-19	100%	0	\$0	John Moss															
P322D26b	Procurement of Transmitter Design/Engineering - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	John Moss															
P322D31	Award Contract for Transmitter - Design/Engineering	03-Sep-19 A	31-Oct-19 A	03-Sep-19	31-Oct-19	100%	0	\$0	John Moss															
P322MS002	Contract for transmitters awarded		31-Oct-19 A		31-Oct-19	100%	0	\$0	John Moss															
P322D34	Transmitter Vendor Documentation and Mobilization	01-Nov-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$0	John Moss															
P322D122	XMTR Payment Milestone # 3) PDR and CDR of TRCC Approved	03-Feb-20 A	03-Feb-20 A	03-Feb-20	03-Feb-20	100%	0	\$0	John Moss															
P322D167	Transmitter Fabrication Oversight FY20 (LOE) (Oct19 - Mar20)	13-Feb-20 A	31-Mar-20 A	13-Feb-20	31-Mar-20	100%	0	\$0	John Moss															
P322D177	SCL XMTR Eng. and 1st Article Fab Summary (4,580K of 5,735K = 80%) (MSs Complete = 1, 2, 3, 4, 5, 7a, and 8a)	13-Feb-20 A	08-Nov-21	13-Feb-20	18-Jun-21	80%	113	\$0	John Moss															
P322D112	XMTR Payment Milestone # 1) Conceptual Design Approved	20-Mar-20 A	20-Mar-20 A	20-Mar-20	20-Mar-20	100%	0	\$0	John Moss															
P322D167a	Transmitter Fabrication Oversight FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	John Moss															
P322D127	XMTR Payment Milestone # 4) FDR of TRCC Approved	30-Apr-20 A	30-Apr-20 A	30-Apr-20	30-Apr-20	100%	0	\$0	John Moss															
P322D117	XMTR Payment Milestone # 2) Preliminary Design Approved	30-Jun-20 A	30-Jun-20 A	30-Jun-20	30-Jun-20	100%	0	\$0	John Moss															
P322D132	XMTR Payment Milestone # 5) Final Design Approved	29-Sep-20 A	29-Sep-20 A	29-Sep-20	29-Sep-20	100%	0	\$0	John Moss															
P322D187	Transmitter Fabrication Oversight FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	John Moss															
P322D142	XMTR Payment Milestone # 7a) 25% of Materials Received	05-Oct-20 A	05-Oct-20 A	05-Oct-20	05-Oct-20	100%	0	\$0	John Moss															
P322D187a	Transmitter Fabrication Oversight FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$5,448	John Moss															
P322D147	XMTR Payment Milestone # 8a) 50% of Materials Received	29-Jan-21 A	29-Jan-21 A	05-Feb-21	05-Feb-21	100%	0	\$839,760	John Moss															
P322D45	Factory Acceptance Testing XMTR-31 and Klystron Tanks (First Article) (1 month before receipt)	12-Oct-21	18-Oct-21	16-Aug-21	20-Aug-21	0%	5	\$10,160	John Moss															
P322D137	XMTR Payment Milestone # 6) TRR and Update of O&M Manual Completed	03-Nov-21	03-Nov-21	27-Aug-21	27-Aug-21	0%	1	\$260,000	John Moss															
P322D152	XMTR Payment Milestone # 9) 1st Transmitter Delivered	17-Nov-21	17-Nov-21	13-Sep-21	13-Sep-21	0%	1	\$312,000	John Moss															
P322D46	Receive and store XMTR-31 (First Article) racks, TRCC, and Klystron Tanks	18-Nov-21	18-Nov-21	14-Sep-21	14-Sep-21	0%	1	\$4,220	John Moss															
P322D157	XMTR Payment Milestone # 10) 1st Transmitter Acceptance Test Complete	26-Jan-22	26-Jan-22	08-Nov-21	08-Nov-21	0%	1	\$628,354	John Moss															
<b>P03.02.02.04 Installation - Transmitters (SCL) - (NEP32240)</b>		<b>06-Apr-21 A</b>	<b>06-Nov-23</b>	<b>01-Apr-21</b>	<b>06-Nov-23</b>		<b>550</b>	<b>\$276,372</b>																
P322i6	Oversight during installation of Transmitters Part 1 (LOE)	19-Jan-22	13-Jan-23	17-Nov-21	14-Nov-22	0%	245	\$18,156	John Moss															
P322i16	Oversight during installation of Transmitters Part 2 (LOE)	17-Jan-23	21-Feb-23	15-Nov-22	22-Dec-22	0%	26	\$6,226	John Moss															
P322MS70	Installation and successful functional testing of Superconducting Linac High Power Radio Frequency systems complete (MS)		06-Nov-23		06-Nov-23	0%	0	\$0	John Moss															
<b>P03.02.02.04.01 Phase 1 Installation</b>		<b>06-Apr-21 A</b>	<b>08-Aug-22</b>	<b>01-Apr-21</b>	<b>08-Aug-22</b>		<b>137</b>	<b>\$84,250</b>																
P322MS02	Phase 1 Start (MS)	06-Apr-21 A		01-Apr-21		100%	0	\$0	John Moss															
P322i526	Connect XMTR-30 and 31 to MPS	25-Jan-22	26-Jan-22	23-Nov-21	24-Nov-21	0%	2	\$952	John Moss															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P322I201	Set HV Tanks for klystrons 30A through 32D (Phase 1)	02-Feb-22	04-Feb-22	09-Dec-21	13-Dec-21	0%	3	\$11,638	John Moss															
P322I501	Install low Z ground plane for SCL-MOD-30 and associated RF Equip	07-Feb-22	18-Feb-22	14-Dec-21	05-Jan-22	0%	10	\$28,081	John Moss															
P322I281	Verify and Test Connections btw XMTR-30 and 31 racks, HV tanks, TRCC, WG, SCL-MOD-30, circs, couplers, PPS, MPS, Timing	22-Feb-22	23-Feb-22	03-Jan-22	04-Jan-22	0%	2	\$3,808	John Moss															
P322I446	HPRF Transmitter Testing XMTR-30 and 31	14-Mar-22	18-Mar-22	28-Jan-22	03-Feb-22	0%	5	\$1,547	John Moss															
P322iMS001	Ready for HV XMTR-30 & 31 (MS)		26-May-22		26-May-22	0%	0	\$0	John Moss															
P322i60	First High Power Test XMTR-30 & 31	05-Jul-22	08-Aug-22	05-Jul-22	08-Aug-22	0%	25	\$38,224	John Moss															
<b>P03.02.02.04.02 Phase 2 Installation</b>		<b>17-Aug-21</b>	<b>18-Nov-22</b>	<b>06-Jul-21</b>	<b>18-Nov-22</b>		<b>314</b>	<b>\$85,692</b>																
P322MS03	Phase 2 Start (MS)	17-Aug-21		06-Jul-21		0%	0	\$0	John Moss															
P322I516	Connect XMTR-27 and 28 to MPS	06-Apr-22	07-Apr-22	14-Mar-22	15-Mar-22	0%	2	\$952	John Moss															
P322I261	Verify and Test Connections btw XMTR-27 and 28 racks, HV tanks, TRCC, WG, SCL-MOD-28, circs, couplers, PPS, MPS, Timing	10-May-22	11-May-22	31-Mar-22	01-Apr-22	0%	2	\$3,808	John Moss															
P322I191	Set HV Tanks for klystrons 27A through 29D (Phase 2)	30-Jun-22	05-Jul-22	30-Jun-22	05-Jul-22	0%	3	\$11,638	John Moss															
P322I491	Install low Z ground plane for SCL-MOD-28 and associated RF Equip	06-Jul-22	19-Jul-22	06-Jul-22	19-Jul-22	0%	10	\$28,081	John Moss															
P322I356	HPRF Transmitter Testing XMTR-27 and 28	10-Aug-22	16-Aug-22	10-Aug-22	16-Aug-22	0%	5	\$1,547	John Moss															
P322iMS003	Ready for HV XMTR-27 & 28 (MS)		31-Aug-22		31-Aug-22	0%	0	\$0	John Moss															
P322i50	First High Power Test XMTR-27 & 28	17-Oct-22	18-Nov-22	17-Oct-22	18-Nov-22	0%	25	\$39,666	John Moss															
<b>P03.02.02.04.03 Phase 3 Installation</b>		<b>17-Nov-21</b>	<b>06-Nov-23</b>	<b>06-Oct-21</b>	<b>06-Nov-23</b>		<b>485</b>	<b>\$82,049</b>																
P322MS04	Phase 3 Start (MS)	17-Nov-21		06-Oct-21		0%	0	\$0	John Moss															
P322I81	Connect XMTR-25 to MPS	21-Apr-22	22-Apr-22	09-Mar-22	10-Mar-22	0%	2	\$476	John Moss															
P322I71	Set HV Tanks for klystrons 25A through 25D (Phase 3)	02-Sep-22	07-Sep-22	02-Sep-22	07-Sep-22	0%	3	\$6,775	John Moss															
P322I141	Install low Z ground plane for SCL-MOD-25 and associated RF Equip	08-Sep-22	21-Sep-22	08-Sep-22	21-Sep-22	0%	10	\$28,081	John Moss															
P322I91	Verify and Test Connections btw XMTR-25 racks, HV tanks, TRCC, WG, SCL-MOD-25, circs, couplers, PPS, MPS, Timing	04-Oct-22	05-Oct-22	04-Oct-22	05-Oct-22	0%	2	\$3,951	John Moss															
P322I101	HPRF Transmitter Testing XMTR-25	13-Oct-22	19-Oct-22	13-Oct-22	19-Oct-22	0%	5	\$1,605	John Moss															
P322iMS005	Ready for HV XMTR-25 (MS)		15-Nov-22		15-Nov-22	0%	0	\$0	John Moss															
P322i40	First High Power Test XMTR-25	03-Oct-23	06-Nov-23	03-Oct-23	06-Nov-23	0%	25	\$41,160	John Moss															
<b>P03.02.03 Klystrons (SCL)</b>		<b>26-Nov-18 A</b>	<b>16-Apr-24</b>	<b>26-Nov-18</b>	<b>16-Apr-24</b>		<b>648</b>	<b>\$6,074,499</b>																
<b>P03.02.03.02 Design - Klystrons (SCL) - (NEP32320)</b>		<b>26-Nov-18 A</b>	<b>29-Jan-19 A</b>	<b>26-Nov-18</b>	<b>29-Jan-19</b>		<b>0</b>	<b>\$0</b>																
P323D11	Generate interface documentation for Klystrons	26-Nov-18 A	25-Jan-19 A	26-Nov-18	25-Jan-19	100%	0	\$0	John Moss															
P323D21	Specification Review for Klystrons and Magnets for FDR	28-Jan-19 A	29-Jan-19 A	28-Jan-19	29-Jan-19	100%	0	\$0	John Moss															
<b>P03.02.03.03 Procure/Fab - Klystrons (SCL) - (NEP32331)</b>		<b>16-Apr-21 A</b>	<b>16-Nov-22</b>	<b>16-Dec-20</b>	<b>16-Nov-22</b>		<b>251</b>	<b>\$5,977,013</b>																
P323P1261	Test Klystron 1 in the RFTF	16-Apr-21 A	10-May-21 A	14-Jan-21	21-Jan-21	100%	0	\$8,426	John Moss															
P323P020	Process Procurement and Award Fabrication of Remaining Klystrons and Solenoids (13 thru 28)	17-May-21 A	25-May-21 A	16-Dec-20	27-Jan-21	100%	0	\$1,477	John Moss															
P323P541	Award of Remaining Klystrons and Solenoids (13 thru 18) Complete (MS)		25-May-21 A		27-Jan-21	100%	0	\$0	John Moss															
P323P831	Fabrication of klystrons 13 & 14	11-Nov-21	14-Dec-21	11-Nov-21	14-Dec-21	0%	22	\$0	John Moss															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Funding Calendar																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P323P841	16 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 13 & 14)	15-Dec-21	15-Dec-21	15-Dec-21	15-Dec-21	0%	1	\$307,872	John Moss																												
P323P851	Shipment Period Klystrons 13 & 14	16-Dec-21	07-Jan-22	16-Dec-21	07-Jan-22	0%	10	\$0	John Moss																												
P323P1291	Fabrication of klystrons 15 & 16	16-Dec-21	26-Jan-22	16-Dec-21	26-Jan-22	0%	22	\$0	John Moss																												
P323P861	Receive and Store Klystrons 13 & 14 (Send Klystron 14 to the RFTF For Testing)	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	0%	1	\$1,645	John Moss																												
P323P1271	Test Klystron 14 in the RFTF	11-Jan-22	18-Jan-22	11-Jan-22	18-Jan-22	0%	5	\$7,158	John Moss																												
P323P455	Receive and Store Klystron HV Tanks for XMTR-30 (Material \$ with XMTRs)	11-Jan-22	11-Jan-22	10-Nov-21	10-Nov-21	0%	1	\$3,717	John Moss																												
P323P871	17 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 15 & 16)	27-Jan-22	27-Jan-22	27-Jan-22	27-Jan-22	0%	1	\$307,872	John Moss																												
P323P1311	Fabrication of klystrons 17 & 18	27-Jan-22	25-Feb-22	27-Jan-22	25-Feb-22	0%	22	\$0	John Moss																												
P323P881	Shipment Period Klystrons 15 & 16	28-Jan-22	10-Feb-22	28-Jan-22	10-Feb-22	0%	10	\$0	John Moss																												
P323P901	24 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 13 & 14)	09-Feb-22	09-Feb-22	09-Feb-22	09-Feb-22	0%	1	\$306,149	John Moss																												
P323P891	Receive and Store Klystrons 15 & 16	11-Feb-22	11-Feb-22	11-Feb-22	11-Feb-22	0%	1	\$1,645	John Moss																												
P323P41	Procure Remaining Insulating Oil for klystrons 25A through 29D (Phase 3)	14-Feb-22	25-Feb-22	14-Feb-22	25-Feb-22	0%	10	\$481	John Moss																												
P323P461	Receive and Store Klystron HV Tanks for XMTR-28 (Material \$ with XMTRs)	17-Feb-22	17-Feb-22	10-Jan-22	10-Jan-22	0%	1	\$3,717	John Moss																												
P323P52	Fabricate Remaining Insulating Oil for klystrons 25A through 29D (Phase 3)	28-Feb-22	25-Mar-22	28-Feb-22	25-Mar-22	0%	20	\$0	John Moss																												
P323P911	18 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 17 & 18)	28-Feb-22	28-Feb-22	28-Feb-22	28-Feb-22	0%	1	\$307,872	John Moss																												
P323P1321	Fabrication of klystrons 19 & 20	28-Feb-22	29-Mar-22	28-Feb-22	29-Mar-22	0%	22	\$0	John Moss																												
P323P921	Shipment Period Klystrons 17 & 18	01-Mar-22	14-Mar-22	01-Mar-22	14-Mar-22	0%	10	\$0	John Moss																												
P323P941	25 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 15 & 16)	14-Mar-22	14-Mar-22	14-Mar-22	14-Mar-22	0%	1	\$306,149	John Moss																												
P323P931	Receive and Store Klystrons 17 & 18 (XMTR-28)	15-Mar-22	15-Mar-22	15-Mar-22	15-Mar-22	0%	1	\$1,645	John Moss																												
P323P466	Receive and Store Klystron HV Tanks for XMTR-27 (Material \$ with XMTRs)	24-Mar-22	24-Mar-22	01-Mar-22	01-Mar-22	0%	1	\$3,717	John Moss																												
P323P211	Receive Remaining Insulating Oil for klystrons 25A through 29D (Phase 3)	28-Mar-22	28-Mar-22	28-Mar-22	28-Mar-22	0%	1	\$65,340	John Moss																												
P323P951	19 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 19 & 20)	30-Mar-22	30-Mar-22	30-Mar-22	30-Mar-22	0%	1	\$307,872	John Moss																												
P323P1331	Fabrication of klystrons 21 & 22	30-Mar-22	29-Apr-22	30-Mar-22	29-Apr-22	0%	22	\$0	John Moss																												
P323P961	Shipment Period Klystrons 19 & 20	31-Mar-22	13-Apr-22	31-Mar-22	13-Apr-22	0%	10	\$0	John Moss																												
P323P981	26 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 17 & 18)	13-Apr-22	13-Apr-22	13-Apr-22	13-Apr-22	0%	1	\$306,149	John Moss																												
P323P971	Receive and Store Klystrons 19 & 20	14-Apr-22	14-Apr-22	14-Apr-22	14-Apr-22	0%	1	\$1,645	John Moss																												
P323P471	Receive and Store Klystron HV Tanks for XMTR-25 (Material \$ with XMTRs)	21-Apr-22	21-Apr-22	12-Apr-22	12-Apr-22	0%	1	\$3,717	John Moss																												
P323P991	20 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 21 & 22)	02-May-22	02-May-22	02-May-22	02-May-22	0%	1	\$307,872	John Moss																												
P323P1341	Fabrication of klystrons 23 & 24	02-May-22	01-Jun-22	02-May-22	01-Jun-22	0%	22	\$0	John Moss																												
P323P1001	Shipment Period Klystrons 21 & 22	03-May-22	16-May-22	03-May-22	16-May-22	0%	10	\$0	John Moss																												
P323P1021	27 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 19 & 20)	16-May-22	16-May-22	16-May-22	16-May-22	0%	1	\$306,149	John Moss																												
P323P1011	Receive and Store Klystrons 21 & 22	17-May-22	17-May-22	17-May-22	17-May-22	0%	1	\$1,645	John Moss																												
P323P1031	21 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 23 & 24)	02-Jun-22	02-Jun-22	02-Jun-22	02-Jun-22	0%	1	\$307,872	John Moss																												



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Funding																													
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29																
P323P1351	Fabrication of klystrons 25 & 26	02-Jun-22	01-Jul-22	02-Jun-22	01-Jul-22	0%	22	\$0	John Moss																														
P323P1041	Shipment Period Klystrons 23 & 24	03-Jun-22	16-Jun-22	03-Jun-22	16-Jun-22	0%	10	\$0	John Moss																														
P323P1061	28 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 21 & 22)	16-Jun-22	16-Jun-22	16-Jun-22	16-Jun-22	0%	1	\$306,149	John Moss																														
P323P1051	Receive and Store Klystrons 23 & 24 (XMTR-27)	17-Jun-22	17-Jun-22	17-Jun-22	17-Jun-22	0%	1	\$1,645	John Moss																														
P323P1371	Procurement Readiness Review (PRR) for Three Spare SCL Klystrons and Magnets	20-Jun-22	24-Jun-22	20-Jun-22	24-Jun-22	0%	5	\$385	John Moss																														
P323P700	Procurement (Sole Source) of 3 Spare Klystrons	27-Jun-22	22-Aug-22	27-Jun-22	22-Aug-22	0%	40	\$7,368	John Moss																														
P323P1081	22 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 25 & 26)	05-Jul-22	05-Jul-22	05-Jul-22	05-Jul-22	0%	1	\$307,872	John Moss																														
P323P1361	Fabrication of klystrons 27 & 28	05-Jul-22	03-Aug-22	05-Jul-22	03-Aug-22	0%	22	\$0	John Moss																														
P323P1091	Shipment Period Klystrons 25 & 26	06-Jul-22	19-Jul-22	06-Jul-22	19-Jul-22	0%	10	\$0	John Moss																														
P323P1071	29 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 23 & 24)	19-Jul-22	19-Jul-22	19-Jul-22	19-Jul-22	0%	1	\$306,149	John Moss																														
P323P1101	Receive and Store Klystrons 25 & 26	20-Jul-22	20-Jul-22	20-Jul-22	20-Jul-22	0%	1	\$1,645	John Moss																														
P323P1121	23 Successful completion of acceptance testing at Seller's facility prior to shipment (klystrons 27 & 28)	04-Aug-22	04-Aug-22	04-Aug-22	04-Aug-22	0%	1	\$307,872	John Moss																														
P323P1131	Shipment Period Klystrons 27 & 28	05-Aug-22	18-Aug-22	05-Aug-22	18-Aug-22	0%	10	\$0	John Moss																														
P323P1111	30 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 25 & 26)	18-Aug-22	18-Aug-22	18-Aug-22	18-Aug-22	0%	1	\$306,149	John Moss																														
P323P1141	Receive and Store Klystrons 27 & 28 (XMTR-25)	19-Aug-22	19-Aug-22	19-Aug-22	19-Aug-22	0%	1	\$1,645	John Moss																														
P323P1281	Test Klystron 28 in the RFTF	22-Aug-22	26-Aug-22	22-Aug-22	26-Aug-22	0%	5	\$7,158	John Moss																														
P323P780	Award contract for 3 Spare Klystrons (MS)		22-Aug-22		22-Aug-22	0%	0	\$0	John Moss																														
P323P4	Fabricate 3 Spare Klystrons	23-Aug-22	15-Nov-22	23-Aug-22	15-Nov-22	0%	60	\$0	John Moss																														
P323P1151	31 Successful completion of acceptance testing at ORNL (or within 4 weeks of delivery) (Klystrons 27 & 28)	20-Sep-22	20-Sep-22	20-Sep-22	20-Sep-22	0%	1	\$306,158	John Moss																														
P323P116	Receive and Store 3 Spare Klystrons	16-Nov-22	16-Nov-22	16-Nov-22	16-Nov-22	0%	1	\$939,007	John Moss																														
<b>P03.02.03.04 Installation - Klystrons (SCL) - (NEP32340)</b>		27-Aug-21	16-Apr-24	01-Jul-21	16-Apr-24		648	\$97,486																															
P32311	Oversight during klystron installation (LOE)	02-Feb-22	19-May-22	09-Dec-21	05-Apr-22	0%	76	\$9,519	John Moss																														
<b>P03.02.03.04.01 Phase 1 Installation</b>		27-Aug-21	12-Sep-22	01-Jul-21	12-Sep-22		257	\$32,642																															
P323i266	Install waveguide shorts (Until final connection made to cryomodule) for klystrons 30C through 32D (Phase 1)	27-Aug-21	31-Aug-21	01-Jul-21	06-Jul-21	0%	3	\$2,369	John Moss																														
P323i161	Move HV Tanks for 30A through 32D to Assembly Area	12-Jan-22	12-Jan-22	11-Nov-21	11-Nov-21	0%	1	\$3,717	John Moss																														
P323i361	Clean and inspect HV tanks for Klystrons 30A through 32D prior to assembly (Phase 1)	13-Jan-22	19-Jan-22	12-Nov-21	17-Nov-21	0%	4	\$3,808	John Moss																														
P323i75	Test HV tank function for Klystrons 30A through 32D (Spot check FAT results) (Phase 1)	20-Jan-22	21-Jan-22	18-Nov-21	19-Nov-21	0%	2	\$952	John Moss																														
P323i351	Mount plates and sockets for 30A through 32D on HV tanks (Phase 1)	24-Jan-22	24-Jan-22	22-Nov-21	22-Nov-21	0%	1	\$952	John Moss																														
P323i286	Deliver klystrons 30A through 32D for tank assembly (Phase 1)	24-Jan-22	24-Jan-22	30-Nov-21	30-Nov-21	0%	1	\$7,724	John Moss																														
P323i366	Assemble klystrons and magnets on tanks for Klystrons 30A through 32D (Phase 1)	25-Jan-22	28-Jan-22	01-Dec-21	06-Dec-21	0%	4	\$3,808	John Moss																														
P323i376	Remove HV connection between 30B and 30C	31-Jan-22	31-Jan-22	07-Dec-21	07-Dec-21	0%	1	\$476	John Moss																														
P323i256	Fill Tanks for Klystrons 30A through 32D with oil (Phase 1)	01-Feb-22	01-Feb-22	08-Dec-21	08-Dec-21	0%	1	\$1,239	John Moss																														
P323i261	Make final WG connections to klystron output for 30C through 32D. Place shorting plates on output of klystrons 30A and B	07-Feb-22	09-Feb-22	14-Dec-21	16-Dec-21	0%	3	\$3,692	John Moss																														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P3231476	Remove Waveguide Short for Klystrons 31A through 32D and Connect to CM31 and 32 (Phase 1)	12-Sep-22	12-Sep-22	12-Sep-22	12-Sep-22	0%	1	\$3,906	John Moss															
<b>P03.02.03.04.02 Phase 2 Installation</b>		<b>15-Nov-21</b>	<b>15-Mar-23</b>	<b>04-Oct-21</b>	<b>15-Mar-23</b>		<b>324</b>	<b>\$32,221</b>																
P3231226	Install waveguide shorts (Until final connection made to cryomodule) for klystrons 28B through 30B (Phase 2)	15-Nov-21	17-Nov-21	04-Oct-21	06-Oct-21	0%	3	\$2,197	John Moss															
P3231141	Move HV Tanks for 27A through 29D to Assembly Area (Phase 2)	25-Mar-22	25-Mar-22	02-Mar-22	02-Mar-22	0%	1	\$3,717	John Moss															
P3231321	Clean and inspect HV tanks for Klystrons 27A through 29D prior to assembly (Phase 2)	28-Mar-22	31-Mar-22	03-Mar-22	08-Mar-22	0%	4	\$3,808	John Moss															
P3231115	Test HV tank function for Klystrons 27A through 29D (Spot check FAT results) (Phase 2)	01-Apr-22	04-Apr-22	09-Mar-22	10-Mar-22	0%	2	\$952	John Moss															
P3231311	Mount plates and sockets for 27A through 29D on HV tanks (Phase 2)	05-Apr-22	05-Apr-22	11-Mar-22	11-Mar-22	0%	1	\$952	John Moss															
P3231276	Deliver klystrons 27A through 29D for tank assembly (Phase 2)	20-Jun-22	21-Jun-22	20-Jun-22	21-Jun-22	0%	2	\$7,724	John Moss															
P3231326	Assemble klystrons and magnets on tanks for Klystrons 27A through 29D (Phase 2)	22-Jun-22	27-Jun-22	22-Jun-22	27-Jun-22	0%	4	\$3,808	John Moss															
P3231520	Remove HV connection between 28A and 28B (Phase 2)	28-Jun-22	28-Jun-22	28-Jun-22	28-Jun-22	0%	1	\$476	John Moss															
P3231216	Fill Tanks for Klystrons 27A through 29D with oil (Phase 2)	29-Jun-22	29-Jun-22	29-Jun-22	29-Jun-22	0%	1	\$1,239	John Moss															
P3231221	Make final WG connections to kly output for 28B thru 30B. Place shorting plates on output of klys 27A - 28A (Phase 2)	06-Jul-22	08-Jul-22	06-Jul-22	08-Jul-22	0%	3	\$3,323	John Moss															
P3231486	Remove Waveguide Short for Klystrons 29A through 30D and Connect to CM28, 29 and 30 (Phase 2)	15-Mar-23	15-Mar-23	15-Mar-23	15-Mar-23	0%	1	\$4,026	John Moss															
<b>P03.02.03.04.03 Phase 3 Installation</b>		<b>28-Feb-22</b>	<b>16-Apr-24</b>	<b>14-Jan-22</b>	<b>16-Apr-24</b>		<b>528</b>	<b>\$23,104</b>																
P3231111	Install waveguide shorts (Until final connection made to cryomodule) for klystrons 25A through 28A (Phase 3)	28-Feb-22	02-Mar-22	14-Jan-22	19-Jan-22	0%	3	\$2,197	John Moss															
P323186	Move HV Tanks for 25A through 25D to Assembly Area (Phase 3)	22-Apr-22	22-Apr-22	13-Apr-22	13-Apr-22	0%	1	\$3,717	John Moss															
P323171	Clean and inspect HV tanks for Klystrons 25A through 25D prior to assembly (Phase 3)	25-Apr-22	26-Apr-22	14-Apr-22	18-Apr-22	0%	2	\$1,904	John Moss															
P323185	Test HV tank function for Klystrons 25A through 25D (Spot check FAT results) (Phase 3)	27-Apr-22	28-Apr-22	19-Apr-22	20-Apr-22	0%	2	\$952	John Moss															
P323161	Mount plates and sockets for 25A through 25D on HV tanks (Phase 3)	29-Apr-22	29-Apr-22	21-Apr-22	21-Apr-22	0%	1	\$476	John Moss															
P323156	Deliver Klystrons 25A through 25D for tank assembly (Phase 3)	29-Aug-22	29-Aug-22	29-Aug-22	29-Aug-22	0%	1	\$3,744	John Moss															
P323176	Assemble klystrons and magnets on tanks for Klystrons 25A through 25D (Phase 3)	30-Aug-22	31-Aug-22	30-Aug-22	31-Aug-22	0%	2	\$1,904	John Moss															
P3231101	Fill Tanks for Klystrons 25A through 25D with oil (Phase 3)	01-Sep-22	01-Sep-22	01-Sep-22	01-Sep-22	0%	1	\$738	John Moss															
P3231106	Make final WG connections to klystron output for 25A through 28A (Phase 3)	08-Sep-22	12-Sep-22	08-Sep-22	12-Sep-22	0%	3	\$3,323	John Moss															
P3231496	Remove Waveguide Short for Klystrons 25A through 28D and Connect to CM25 and 27 (Phase 3)	16-Apr-24	16-Apr-24	16-Apr-24	16-Apr-24	0%	1	\$4,149	John Moss															
<b>P03.02.05 Circulators (SCL)</b>		<b>02-Jan-19 A</b>	<b>24-Mar-22</b>	<b>02-Jan-19</b>	<b>07-Apr-22</b>		<b>201</b>	<b>\$537,329</b>																
<b>P03.02.05.02 Design (NEP32520)</b>		<b>02-Jan-19 A</b>	<b>27-Feb-19 A</b>	<b>02-Jan-19</b>	<b>27-Feb-19</b>		<b>0</b>	<b>\$0</b>																
P325D1	Update Specification and write statement of work for Circulators	02-Jan-19 A	25-Jan-19 A	02-Jan-19	25-Jan-19	100%	0	\$0	John Moss															
P325D11	Specification Review for SCL Circulators for FDR	28-Jan-19 A	27-Feb-19 A	28-Jan-19	27-Feb-19	100%	0	\$0	John Moss															
<b>P03.02.05.03 Procure/Fab Circulators (NEP32531)</b>		<b>17-May-21 A</b>	<b>24-Mar-22</b>	<b>01-Jun-21</b>	<b>07-Apr-22</b>		<b>201</b>	<b>\$537,329</b>																
P325P100	Procure 8 AFT Circulators	17-May-21 A	14-Jun-21	01-Jun-21	28-Jun-21	80%	10	\$739	John Moss															
P325P206	Fabrication of 8 AFT Circulators	15-Jun-21	09-Mar-22	29-Jun-21	23-Mar-22	0%	180	\$0	John Moss															
P325P236	Oversight of Fabrication of Circulators (LOE)	15-Jun-21	09-Mar-22	29-Jun-21	23-Mar-22	0%	180	\$28,277	John Moss															
P325P216	Receive 8 AFT Circulators	10-Mar-22	10-Mar-22	24-Mar-22	24-Mar-22	0%	1	\$495,571	John Moss															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P325P226	Acceptance Testing AFT Circulators	11-Mar-22	24-Mar-22	25-Mar-22	07-Apr-22	0%	10	\$12,743	John Moss														
P03.02.06 Water Loads (SCL)		02-Jan-19 A	27-Feb-19 A	02-Jan-19	27-Feb-19		0	\$0															
P03.02.06.02 Design (NEP32620)		02-Jan-19 A	27-Feb-19 A	02-Jan-19	27-Feb-19		0	\$0															
P326D1	Update Specification and Write Statement of work for Water Loads	02-Jan-19 A	25-Jan-19 A	02-Jan-19	25-Jan-19	100%	0	\$0	John Moss														
P326D11	Specification Review for SCL Water Loads for FDR	28-Jan-19 A	27-Feb-19 A	28-Jan-19	27-Feb-19	100%	0	\$0	John Moss														
P03.03 NCL HPRF		03-Oct-16 A	19-Jul-23	03-Oct-16	19-Jul-23		527	\$3,928,191															
P03.03.01 Management and System Integration - NCL HPRF		03-Oct-16 A	19-Jul-23	03-Oct-16	19-Jul-23		0	\$0															
P03.03.01.01 Management and System Integration - NCL HPRF - (NEP33110)		03-Oct-16 A	19-Jul-23	03-Oct-16	19-Jul-23		0	\$0															
P331M1	WBS Management P.3.3 FY17 (filled by L2 for 50% of FY17)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	John Moss														
P331M4	WBS Management P.3.3 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	John Moss														
P331M6	WBS Management P.3.3 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	John Moss														
P331M11	WBS Management P.3.3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	John Moss														
P331MS01	NCL HPRF Installation Complete (MS)		19-Jul-23		19-Jul-23	0%	0	\$0	John Moss														
P03.03.02 Transmitters (NCL)		31-Aug-21	07-Mar-23	06-Jul-21	07-Mar-23		371	\$210,024															
P03.03.02.02 Design - Transmitters (NCL) - (NEP33220)		31-Aug-21	23-Nov-21	06-Jul-21	28-Sep-21		60	\$14,517															
P332D1	Determine requirements for klystron filament power supply.	31-Aug-21	28-Sep-21	06-Jul-21	02-Aug-21	0%	20	\$2,348	John Moss														
P332D6	Write specifications for klystron filament power supply.	29-Sep-21	26-Oct-21	03-Aug-21	30-Aug-21	0%	20	\$4,860	John Moss														
P332D41	Determine requirements for klystron magnet power supplies.	29-Sep-21	26-Oct-21	03-Aug-21	30-Aug-21	0%	20	\$2,430	John Moss														
P332D46	Write specifications for klystron magnet power supplies.	27-Oct-21	23-Nov-21	31-Aug-21	28-Sep-21	0%	20	\$4,878	John Moss														
P03.03.02.03 Procure/Fab - Transmitters (NCL) - (NEP33230)		27-Oct-21	15-Dec-22	31-Aug-21	20-Sep-22		281	\$182,493															
P332P11	Procure Three klystron filament power supplies.	27-Oct-21	16-Nov-21	31-Aug-21	21-Sep-21	0%	15	\$1,701	John Moss														
P332P09	Fabrication Three klystron filament power supplies	17-Nov-21	22-Mar-22	22-Sep-21	25-Jan-22	0%	80	\$0	John Moss														
P332P51	Procure Six (2 per klystron) magnet power supplies.	24-Nov-21	16-Dec-21	29-Sep-21	19-Oct-21	0%	15	\$1,701	John Moss														
P332P53	Fabrication of Six (2 per klystron) magnet power supplies	17-Dec-21	20-Apr-22	20-Oct-21	22-Feb-22	0%	80	\$0	John Moss														
P332MS73	Fabrication of Three klystron filament power supplies Complete (MS)		22-Mar-22		25-Jan-22	0%	0	\$0	John Moss														
P332P16	Receive, test, and store Three klystron filament power supplies.	23-Mar-22	12-Apr-22	26-Jan-22	15-Feb-22	0%	15	\$57,336	John Moss														
P332MS63	Fabrication of Six (2 per klystron) magnet power supplies Complete (MS)		20-Apr-22		22-Feb-22	0%	0	\$0	John Moss														
P332P56	Receive, test, and store Six (2 per klystron) magnet power supplies.	21-Apr-22	11-May-22	23-Feb-22	15-Mar-22	0%	15	\$100,173	John Moss														
P332P21	Test three klystron filament power supplies as part of klystron site acceptance test.	02-Dec-22	08-Dec-22	07-Sep-22	13-Sep-22	0%	5	\$6,136	John Moss														
P332P61	Test six (2 per klystron) magnet power supplies as part of klystron site acceptance test.	02-Dec-22	15-Dec-22	07-Sep-22	20-Sep-22	0%	10	\$15,446	John Moss														
P03.03.02.04 Installation - Transmitters (NCL)		22-Feb-23	07-Mar-23	22-Feb-23	07-Mar-23		10	\$13,014															
P332I71	Install six (2 per Klystron) magnet power supplies into transmitters DTL-3, 4, and 5	22-Feb-23	28-Feb-23	22-Feb-23	28-Feb-23	0%	5	\$8,676	John Moss														
P332I91	Install three (1 per Klystron) klystron filament power supplies into transmitters for DTL-3, 4, and 5	01-Mar-23	07-Mar-23	01-Mar-23	07-Mar-23	0%	5	\$4,338	John Moss														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P.03.03.03 Klystrons (NCL)		01-Jun-18 A	21-Feb-23	01-Jun-18	21-Feb-23		425	\$3,718,167																
P.03.03.03.02 Design - Klystrons (NCL) - (NEP33320)		01-Jun-18 A	30-Aug-21	01-Jun-18	02-Jul-21		64	\$683,970																
P333D1	Write specifications and statement of work for 3MW klystrons.	01-Jun-18 A	31-Aug-18 A	01-Jun-18	31-Aug-18	100%	0	\$0	John Moss															
P333MS001	Complete 3 MW klystron bid package		31-Aug-18 A		31-Aug-18	100%	0	\$0	John Moss															
P333D09	Solicit Bids, Evaluate, and Award Design and Fabrication of 3MW Klystron Test Article - Part 1	07-Sep-18 A	28-Sep-18 A	07-Sep-18	28-Sep-18	100%	0	\$0	John Moss															
P333D9	Solicit Bids, Evaluate, and Award Design and Fabrication of 3MW Klystron Test Article - Continued from 50%	01-Oct-18 A	28-Jan-19 A	01-Oct-18	28-Jan-19	100%	0	\$0	John Moss															
P333MS005	Award Contract for 3MW Klystron - Design and Fabrication of Test Article		28-Jan-19 A		28-Jan-19	100%	0	\$0	John Moss															
P333D10	Design, Fabricate and Receive 3MW Klystron Test Article	29-Jan-19 A	29-Mar-19 A	29-Jan-19	29-Mar-19	100%	0	\$0	John Moss															
P333D10B	3MW Klystron Test Article - Preliminary Design	01-Apr-19 A	23-Jul-19 A	01-Apr-19	23-Jul-19	100%	0	\$0	John Moss															
P333D200	Preliminary Design Review (PDR) - Milestone Payment	24-Jul-19 A	24-Jul-19 A	24-Jul-19	24-Jul-19	100%	0	\$0	John Moss															
P333D205	3MW Klystron Test Article - Final Design & Start Drawing Package	25-Jul-19 A	30-Aug-19 A	25-Jul-19	30-Aug-19	100%	0	\$0	John Moss															
P333D205B	3MW Klystron Test Article - Final Design & Start Drawing Package Continued)	03-Sep-19 A	09-Oct-19 A	03-Sep-19	09-Oct-19	100%	0	\$0	John Moss															
P333D210	Final Design Review (FDR) - Milestone Payment #3	09-Oct-19 A	09-Oct-19 A	09-Oct-19	09-Oct-19	100%	0	\$0	John Moss															
P333D215	3MW Klystron Test Article - Finish Drawing Package & Order Long Lead Procurements	10-Oct-19 A	31-Mar-20 A	10-Oct-19	31-Mar-20	100%	0	\$0	John Moss															
P333D280	3MW Klystron Test Article Fabrication Oversight (LOE) Part 1 (Apr20 - Oct20)	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	John Moss															
P333D215a	3MW Klystron Test Article - Finish Drawing Package & Order Long Lead Procurements (Apr20>)	01-Apr-20 A	28-May-20 A	01-Apr-20	28-May-20	100%	0	\$0	John Moss															
P333D220	Upon order of long lead material - Milestone Payment #4	29-May-20 A	29-May-20 A	29-May-20	29-May-20	100%	0	\$0	John Moss															
P333D225	3MW Klystron Test Article - Parts & Assemblies Procurements	01-Jun-20 A	23-Oct-20 A	01-Jun-20	23-Oct-20	100%	0	\$0	John Moss															
P333D230	Complete order of parts & assemblies - Milestone Payment #1	26-Oct-20 A	26-Oct-20 A	26-Oct-20	26-Oct-20	100%	0	\$0	John Moss															
P333D235	3MW Klystron Test Article - Receipt Processing & Production	02-Nov-20 A	30-Jul-21	02-Nov-20	28-May-21	73%	43	\$0	John Moss															
P333D280a	3MW Klystron Test Article Fabrication Oversight (LOE) Part 2 (Nov20 - Mar20)	02-Nov-20 A	31-Mar-21 A	02-Nov-20	31-Mar-21	100%	0	\$12,144	John Moss															
P333D96	Attend Factory Acceptance Test of Test Article	26-Jul-21	30-Jul-21	25-May-21	01-Jun-21	0%	5	\$29,993	John Moss															
P333D245	FAT - Milestone Payment #5	02-Aug-21	02-Aug-21	01-Jun-21	01-Jun-21	0%	1	\$156,936	John Moss															
P333D250	3MW Klystron Test Article - Inspection & Shipping	03-Aug-21	18-Aug-21	02-Jun-21	22-Jun-21	0%	12	\$0	John Moss															
P333MS002	Receive 3MW Klystron Test Article (MS)		18-Aug-21		22-Jun-21	0%	0	\$0	John Moss															
P333D86	Conduct Site Acceptance Test for 3MW Klystrons test article in RFTF	19-Aug-21	30-Aug-21	23-Jun-21	02-Jul-21	0%	8	\$14,086	John Moss															
P333D270	SAT - Milestone Payment #6	30-Aug-21	30-Aug-21	02-Jul-21	02-Jul-21	0%	1	\$470,810	John Moss															
P.03.03.03.03 Procure/Fab - Klystrons (NCL) - (NEP33330)		19-Aug-21	12-Jan-23	25-May-21	21-Nov-22		342	\$2,998,307																
P333P6	Process Procurement and Award Option for 3 3MW klystrons	19-Aug-21	16-Sep-21	25-May-21	22-Jun-21	0%	20	\$2,216	John Moss															
P333MS006	Contract for Remaining 3MW Klystrons awarded (MS)		16-Sep-21		22-Jun-21	0%	0	\$0	John Moss															
P333P106	Vendor Mobilization and Documentation Period	17-Sep-21	14-Oct-21	23-Jun-21	21-Jul-21	0%	20	\$0	John Moss															
P333P11	Procurement of Material Lead-up	15-Oct-21	13-Dec-21	22-Jul-21	16-Sep-21	0%	40	\$0	John Moss															
P333P12	Oversight of Fabrication of Three 3MW Klystrons FY21 (LOE)	15-Oct-21	11-Oct-22	22-Jul-21	18-Jul-22	0%	244	\$38,338	John Moss															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P333P76	Payment Milestone 1 Upon Procurement of Material	14-Dec-21	14-Dec-21	17-Sep-21	17-Sep-21	0%	1	\$720,467	John Moss															
P333P116	Critical Design Review Lead-up	15-Dec-21	21-Jan-22	20-Sep-21	15-Oct-21	0%	20	\$0	John Moss															
P333P126	Payment Milestone 2 Completion of Critical Design Review	24-Jan-22	24-Jan-22	18-Oct-21	18-Oct-21	0%	1	\$432,280	John Moss															
P333P136	Final Design Review Lead-up	25-Jan-22	21-Feb-22	19-Oct-21	15-Nov-21	0%	20	\$0	John Moss															
P333P146	Payment Milestone 3 Completion of Final Design Review	22-Feb-22	22-Feb-22	16-Nov-21	16-Nov-21	0%	1	\$288,186	John Moss															
P333P196	Order Long Lead Materials Lead-up	23-Feb-22	22-Mar-22	17-Nov-21	16-Dec-21	0%	20	\$0	John Moss															
P333P156	Payment Milestone 4 Upon Order of Long Lead Materials	23-Mar-22	29-Mar-22	17-Dec-21	03-Jan-22	0%	5	\$288,186	John Moss															
P333P56	Fabrication of Three 3MW Klystrons	30-Mar-22	14-Nov-22	04-Jan-22	19-Aug-22	0%	160	\$0	John Moss															
P333P226	Oversight of Fabrication of Three 3MW Klystrons FY22 (LOE)	12-Oct-22	12-Jan-23	19-Jul-22	21-Nov-22	0%	58	\$13,350	John Moss															
P333P16	Attend Factory Acceptance Test of three 3 MW klystrons.	01-Nov-22	14-Nov-22	08-Aug-22	19-Aug-22	0%	10	\$20,186	John Moss															
P333P166	Payment Milestone 5 Completion of FAT	15-Nov-22	15-Nov-22	22-Aug-22	22-Aug-22	0%	1	\$293,573	John Moss															
P333P186	Shipment Period	16-Nov-22	01-Dec-22	23-Aug-22	06-Sep-22	0%	10	\$0	John Moss															
P333P21	Receive Three 3MW klystrons (MS)		01-Dec-22		06-Sep-22	0%	0	\$0	John Moss															
P333P26	Conduct site acceptance test for three 3MW klystrons in the RFTF	02-Dec-22	09-Jan-23	07-Sep-22	01-Nov-22	0%	20	\$15,086	John Moss															
P333P206	Payment Milestone 6 Completion of SAT	10-Jan-23	10-Jan-23	02-Nov-22	02-Nov-22	0%	1	\$880,720	John Moss															
P333P216	Store Three 3MW klystrons in the Gallery	10-Jan-23	12-Jan-23	02-Nov-22	04-Nov-22	0%	3	\$5,718	John Moss															
<b>P03.03.03.04 Installation - Klystrons (NCL)</b>		31-Jan-23	21-Feb-23	31-Jan-23	21-Feb-23		16	\$35,890																
P333i61	Stage three 3MW klystrons for installation	31-Jan-23	31-Jan-23	31-Jan-23	31-Jan-23	0%	1	\$1,906	John Moss															
P333i41	Install one 3MW klystron into klystron gallery for DTL3	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	5	\$16,992	John Moss															
P333i71	Install two 3MW klystron into klystron gallery for DTL4 and DTL5	08-Feb-23	21-Feb-23	08-Feb-23	21-Feb-23	0%	10	\$16,992	John Moss															
<b>P03.03.04 Circulators (NCL)</b>		29-Nov-18 A	09-Jan-20 A	29-Nov-18	09-Jan-20		0	\$0																
<b>P03.03.04.02 Design - Circulators (NCL) - (NEP33420)</b>		29-Nov-18 A	09-Jan-20 A	29-Nov-18	09-Jan-20		0	\$0																
P334D1	Write specifications and statement of work for 3MW circulators.	29-Nov-18 A	25-Jan-19 A	29-Nov-18	25-Jan-19	100%	0	\$0	John Moss															
P334D11	Spec Review for 3MW Circulators for FDR	28-Jan-19 A	27-Feb-19 A	28-Jan-19	27-Feb-19	100%	0	\$0	John Moss															
P334MS005	Complete 3MW Circulators Bid Package		27-Feb-19 A		27-Feb-19	100%	0	\$0	John Moss															
P334D001	Investigate Need for new 3MW Circulators	01-Nov-19 A	09-Jan-20 A	01-Nov-19	09-Jan-20	100%	0	\$0	John Moss															
<b>P03.03.05 Glycol/Water Loads (NCL)</b>		29-Nov-18 A	27-Feb-19 A	29-Nov-18	27-Feb-19		0	\$0																
<b>P03.03.05.02 Design - Glycol/Water Loads (NCL) - (NEP33520)</b>		29-Nov-18 A	27-Feb-19 A	29-Nov-18	27-Feb-19		0	\$0																
P335D1	Write specifications and statement of work for 3MW loads.	29-Nov-18 A	25-Jan-19 A	29-Nov-18	25-Jan-19	100%	0	\$0	John Moss															
P335D11	Spec Review and PRR for 3MW Loads	28-Jan-19 A	27-Feb-19 A	28-Jan-19	27-Feb-19	100%	0	\$0	John Moss															
P335MS21	Complete 3MW Loads Bid Package		27-Feb-19 A		27-Feb-19	100%	0	\$0	John Moss															
<b>P03.04 LRLF</b>		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$3,045,998																
<b>P03.04.01 Management and System Integration - LRLF</b>		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$226,633																







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Activity Matrix																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
P342D380	Extended FY21 LBNL LLRF Design Support (Nov 20 - Sep 21) (LOE)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$255,000	Mark Crofford																												
P03.04.02.02.03 Develop System Model		01-Nov-18 A	06-Jan-20 A	01-Nov-18	06-Jan-20		0	\$0																													
P342D098	Modify Existing LBNL Model to Contain SNS Parameters (with LBNL Support)	01-Nov-18 A	02-Jan-19 A	01-Nov-18	02-Jan-19	100%	0	\$0	Mark Crofford																												
P342D080	Model Cavity Klystron and Controller (See P.3.8.2.2 for S/W) (with LBNL Support)	03-Jan-19 A	06-Mar-19 A	03-Jan-19	06-Mar-19	100%	0	\$0	Mark Crofford																												
P342D090	Investigate Microphonics (with LBNL Support)	07-Mar-19 A	29-Mar-19 A	07-Mar-19	29-Mar-19	100%	0	\$0	Mark Crofford																												
P342D090b	Investigate Microphonics (with LBNL Support) - Continued	01-Apr-19 A	09-Apr-19 A	01-Apr-19	09-Apr-19	100%	0	\$0	Mark Crofford																												
P342D095	Model Software Based Adaptive Feed Forward (AFF) (with LBNL Support)	10-Apr-19 A	30-Aug-19 A	10-Apr-19	30-Aug-19	100%	0	\$0	Mark Crofford																												
P342D095b	Model Software Based Adaptive Feed Forward (AFF) (with LBNL Support) - Continued	03-Sep-19 A	06-Jan-20 A	03-Sep-19	06-Jan-20	100%	0	\$0	Mark Crofford																												
P03.04.02.02.04 Design test article of FCM-II RTM		03-Dec-18 A	27-Nov-19 A	03-Dec-18	27-Nov-19		0	\$0																													
P342D21	create block design of FCM-II RTM	03-Dec-18 A	21-Dec-18 A	03-Dec-18	21-Dec-18	100%	0	\$0	Mark Crofford																												
P342D31	Determine Clocking Frequency for the FCM-II (with LBNL Support)	03-Dec-18 A	11-Feb-19 A	03-Dec-18	11-Feb-19	100%	0	\$0	Mark Crofford																												
P342D26	schematic capture of FCM-II RTM	12-Feb-19 A	21-Mar-19 A	12-Feb-19	21-Mar-19	100%	0	\$0	Mark Crofford																												
P342D125	Conduct schematic review of FCM-II RTM	13-Mar-19 A	21-Mar-19 A	13-Mar-19	21-Mar-19	100%	0	\$0	Mark Crofford																												
P342MS020	FCM-II RTM Schematic Review Complete		21-Mar-19 A		21-Mar-19	100%	0	\$0	Mark Crofford																												
P342D130	layout design of FCM-II RTM	01-Apr-19 A	16-Apr-19 A	01-Apr-19	16-Apr-19	100%	0	\$0	Mark Crofford																												
P342D95	Procure & receive test article of FCM-II RTM	17-Apr-19 A	25-Jun-19 A	17-Apr-19	25-Jun-19	100%	0	\$0	Mark Crofford																												
P342D135	write test firmware for FCM-II RTM (See P.3.8.2.2 for S/W) (with LBNL Support)	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Mark Crofford																												
P342D140	test, iterate, rework of the FCM-II RTM (See P.3.8.2.2 for S/W)	03-Sep-19 A	27-Nov-19 A	03-Sep-19	27-Nov-19	100%	0	\$0	Mark Crofford																												
P03.04.02.02.05 Firmware Development HPM-II		11-Apr-19 A	11-Sep-20 A	11-Apr-19	11-Sep-20		0	\$0																													
P342D175	HPM-II functionality - Review Legacy Code and Create Mapping (See P.3.8.2.2 for S/W)	11-Apr-19 A	23-May-19 A	11-Apr-19	23-May-19	100%	0	\$0	Mark Crofford																												
P342D180	HPM-II functionality - Define firmware block diagram & interfaces (See P.3.8.2.2 for S/W)	01-Nov-19 A	27-Nov-19 A	01-Nov-19	27-Nov-19	100%	0	\$0	Mark Crofford																												
P342D185	HPM-II functionality - Design overall functions (See P.3.8.2.2 for S/W)	02-Dec-19 A	20-Feb-20 A	02-Dec-19	20-Feb-20	100%	0	\$0	Mark Crofford																												
P342D340	HPM-II functionality - Iterate Protection Functions (See P.3.8.2.2 for S/W)	20-Feb-20 A	31-Mar-20 A	20-Feb-20	31-Mar-20	100%	0	\$0	Mark Crofford																												
P342D340a	HPM-II functionality - Iterate Protection Functions (See P.3.8.2.2 for S/W) (Apr20>)	01-Apr-20 A	30-Jun-20 A	01-Apr-20	30-Jun-20	100%	0	\$0	Mark Crofford																												
P342D190	HPM-II functionality - Validate HPM module (See P.3.8.2.2 for S/W)	07-Aug-20 A	11-Sep-20 A	07-Aug-20	11-Sep-20	100%	0	\$0	Mark Crofford																												
P03.04.02.02.06 Design test article Frequency Conversion Chassis (FCC)		03-Jun-19 A	12-Aug-20 A	03-Jun-19	12-Aug-20		0	\$0																													
P342D61	create block design of Frequency Conversion Chassis	03-Jun-19 A	14-Jun-19 A	03-Jun-19	14-Jun-19	100%	0	\$0	Mark Crofford																												
P342D200	schematic capture of Frequency Conversion Chassis	17-Jun-19 A	30-Aug-19 A	17-Jun-19	30-Aug-19	100%	0	\$0	Mark Crofford																												
P342D200b	schematic capture of Frequency Conversion Chassis - Continued	03-Sep-19 A	16-Oct-19 A	03-Sep-19	16-Oct-19	100%	0	\$0	Mark Crofford																												
P342D205	Conduct schematic review of Frequency Conversion Chassis	17-Oct-19 A	17-Oct-19 A	17-Oct-19	17-Oct-19	100%	0	\$0	Mark Crofford																												
P342MS210	Frequency Conversion Chassis schematic review complete (MS)		17-Oct-19 A		17-Oct-19	100%	0	\$0	Mark Crofford																												
P342D215	layout design of Frequency Conversion Chassis boards	18-Oct-19 A	10-Feb-20 A	18-Oct-19	10-Feb-20	100%	0	\$0	Mark Crofford																												
P342D71	Procure & receive test article of the Frequency Conversion Chassis (combined resources from old procure activities)	10-Feb-20 A	23-Mar-20 A	10-Feb-20	23-Mar-20	100%	0	\$0	Mark Crofford																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Performance																													
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P342D220	test sub-assemblies of Frequency Conversion Chassis	10-Mar-20 A	31-Mar-20 A	10-Mar-20	31-Mar-20	100%	0	\$0	Mark Crofford																														
P342D220a	test sub-assemblies of Frequency Conversion Chassis (Apr20>)	01-Apr-20 A	27-Apr-20 A	01-Apr-20	27-Apr-20	100%	0	\$0	Mark Crofford																														
P342D350	Iterate Sub-assemblies of Frequency Conversion Chassis	28-Apr-20 A	22-Jun-20 A	28-Apr-20	22-Jun-20	100%	0	\$0	Mark Crofford																														
P342D225	integrate sub-assemblies of Frequency Conversion Chassis	05-May-20 A	19-Jun-20 A	05-May-20	19-Jun-20	100%	0	\$0	Mark Crofford																														
P342D230	design enclosure of Frequency Conversion Chassis	15-May-20 A	23-Jun-20 A	15-May-20	23-Jun-20	100%	0	\$0	Mark Crofford																														
P342D235	procure enclosure & complete BOM for Frequency Conversion Chassis	24-Jun-20 A	22-Jul-20 A	24-Jun-20	22-Jul-20	100%	0	\$0	Mark Crofford																														
P342D240	Final assembly & test of Frequency Conversion Chassis	23-Jul-20 A	12-Aug-20 A	23-Jul-20	12-Aug-20	100%	0	\$0	Mark Crofford																														
<b>P03.04.02.02.07 Firmware Development for LLRF - basic functionality</b>		<b>01-Apr-19 A</b>	<b>07-Apr-21 A</b>	<b>01-Apr-19</b>	<b>07-Apr-21</b>		<b>0</b>	<b>\$157,223</b>																															
P342D76	Review legacy FPGA code and create mapping (with LBNL Support)	01-Apr-19 A	28-May-19 A	01-Apr-19	28-May-19	100%	0	\$0	Mark Crofford																														
P342D250	Define Firmware Block Diagram and define interfaces (Hardware/Software) (See P.3.8.2.2 for S/W) (with LBNL Support)	29-May-19 A	25-Jul-19 A	29-May-19	25-Jul-19	100%	0	\$0	Mark Crofford																														
P342D255	Develop register interface and timing logic (See P.3.8.2.2 for S/W) (with LBNL Support)	26-Jul-19 A	30-Aug-19 A	26-Jul-19	30-Aug-19	100%	0	\$0	Mark Crofford																														
P342D255c	Develop register interface and timing logic (See P.3.8.2.2 for S/W) (with LBNL Support) - Continued	03-Sep-19 A	04-Oct-19 A	03-Sep-19	04-Oct-19	100%	0	\$0	Mark Crofford																														
P342D260	Develop Robust ADC Driver (See P.3.8.2.2 for S/W) (with LBNL Support)	07-Oct-19 A	15-Nov-19 A	07-Oct-19	15-Nov-19	100%	0	\$0	Mark Crofford																														
P342D265	Integrate Firmware Modules (See P.3.8.2.2 for S/W) (with LBNL Support)	18-Nov-19 A	14-Feb-20 A	18-Nov-19	14-Feb-20	100%	0	\$0	Mark Crofford																														
P342D285	Timing constraints and Closure OLD (See P.3.8.2.2 for S/W) (with LBNL Support)	25-Nov-19 A	06-Dec-19 A	25-Nov-19	06-Dec-19	100%	0	\$0	Mark Crofford																														
P342D267	Demonstrate Open/Closed Loop Operation on Test Stand (See P.3.8.2.2 for S/W) (with LBNL Support)	06-Dec-19 A	10-Feb-20 A	06-Dec-19	10-Feb-20	100%	0	\$0	Mark Crofford																														
P342D295	Merge HPM-II/FCM-II protection functions (See P.3.8.2.2 for S/W)	31-Jan-20 A	31-Mar-20 A	31-Jan-20	31-Mar-20	100%	0	\$0	Mark Crofford																														
P342D275	Perform Integrated test on 23D (See P.3.8.2.2 for S/W)	16-Mar-20 A	31-Mar-20 A	16-Mar-20	31-Mar-20	100%	0	\$0	Mark Crofford																														
P342D295a	Merge HPM-II/FCM-II protection functions (See P.3.8.2.2 for S/W) (Apr20>)	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Mark Crofford																														
P342D275a	Perform Integrated test on 23D (See P.3.8.2.2 for S/W) (Apr20>) Part 1	01-Apr-20 A	01-Jun-20 A	01-Apr-20	01-Jun-20	100%	0	\$0	Mark Crofford																														
P342D275b	Perform Integrated test on 23D (See P.3.8.2.2 for S/W) Adjustment Activity RF-2020-02	01-Jun-20 A	01-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	\$0	Mark Crofford																														
P342D275c	Perform Integrated test on 23D (See P.3.8.2.2 for S/W) (Jun20>) Part 2	01-Jun-20 A	31-Aug-20 A	01-Jun-20	31-Aug-20	100%	0	\$0	Mark Crofford																														
P342D305	Iterate Firmware / Bug Fixes (Cycle 1) (See P.3.8.2.2 for S/W) (LOE)	19-Aug-20 A	30-Oct-20 A	19-Aug-20	30-Oct-20	100%	0	\$0	Mark Crofford																														
P342D310	Iterate Firmware / Bug Fixes (Cycle 2) (See P.3.8.2.2 for S/W) (LOE)	02-Nov-20 A	01-Feb-21 A	02-Nov-20	01-Feb-21	100%	0	\$77,337	Mark Crofford																														
P342D315	Iterate Firmware / Bug Fixes (Cycle 3) (See P.3.8.2.2 for S/W) (LOE)	02-Feb-21 A	07-Apr-21 A	02-Feb-21	07-Apr-21	100%	0	\$79,886	Mark Crofford																														
<b>P03.04.02.02.08 Firmware Development for LLRF - advanced functionality</b>		<b>08-Apr-21 A</b>	<b>02-Nov-21 A</b>	<b>08-Apr-21</b>	<b>02-Nov-21</b>		<b>109</b>	<b>\$145,391</b>																															
P342D360	Integrate Advanced Features into LLRF System (See P.3.8.2.2 for S/W) (LOE)	08-Apr-21 A	02-Nov-21 A	08-Apr-21	02-Nov-21	25.34%	109	\$145,391	Mark Crofford																														
<b>P03.04.02.03 Procure/Fab - LLRF System - (NEP34230)</b>		<b>21-Sep-20 A</b>	<b>28-Oct-21 A</b>	<b>21-Sep-20</b>	<b>28-Oct-21</b>		<b>106</b>	<b>\$1,235,505</b>																															
P342P91	Finalize Bill of Materials for LLRF boards - Part 1 (Thru Oct20)	21-Sep-20 A	30-Oct-20 A	21-Sep-20	30-Oct-20	100%	0	\$0	Mark Crofford																														
P342P91a	Finalize Bill of Materials for LLRF boards - Part 2 (Nov20>)	02-Nov-20 A	15-Dec-20 A	02-Nov-20	15-Dec-20	100%	0	\$9,181	Mark Crofford																														
P342P80	Mark Crofford provides Rack Requirements information to Barnett (MS)		02-Nov-20 A		02-Nov-20	100%	0	\$0	Greg Norman																														
P342P126	Process vendor questions on all LLRF boards	08-Mar-21 A	19-Mar-21 A	28-Jan-21	10-Feb-21	100%	0	\$1,806	Mark Crofford																														
P342P151	Deliver boards, etc to gallery for installation - after checkout is complete (Phase 1)	01-Sep-21	01-Sep-21	01-Sep-21	01-Sep-21	0%	1	\$573	Mark Crofford																														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P342P146	Store boards, chassis, etc. - warehouse subassemblies before and after testing	10-Sep-21	13-Sep-21	10-Aug-21	11-Aug-21	0%	2	\$2,294	Mark Crofford															
P342P246	Deliver boards, etc to gallery for installation - after checkout is complete (Phase 2)	30-Sep-21	30-Sep-21	30-Sep-21	30-Sep-21	0%	1	\$573	Mark Crofford															
P342P251	Deliver boards, etc to gallery for installation - after checkout is complete (Phase 3)	28-Oct-21	28-Oct-21	28-Oct-21	28-Oct-21	0%	1	\$595	Mark Crofford															
<b>P03.04.02.03.01 LLRF Platform</b>		<b>01-Oct-20 A</b>	<b>01-Sep-21</b>	<b>01-Oct-20</b>	<b>09-Aug-21</b>		<b>66</b>	<b>\$517,341</b>																
P342P031	Prepare Sole Source justification for approved LLRF platform choice	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Mark Crofford															
P342P051	Procurement Readiness Review (PRR) for approved LLRF platform choice	02-Nov-20 A	04-Nov-20 A	02-Nov-20	04-Nov-20	100%	0	\$1,161	Mark Crofford															
P342MS061	Technical Package to Procurement for approved LLRF platform choice (MS)		04-Nov-20 A		04-Nov-20	100%	0	\$0	Mark Crofford															
P342P071	Procurement Review and Bid fo approved LLRF platform choice	05-Nov-20 A	20-Nov-20 A	05-Nov-20	25-Nov-20	100%	0	\$2,317	Mark Crofford															
P342MS081	Procurement approval for sole source for approved LLRF platform choice (MS)		20-Nov-20 A		25-Nov-20	100%	0	\$0	Mark Crofford															
P342P31	Review and Award Contract for approved LLRF platform choice	23-Nov-20 A	30-Nov-20 A	30-Nov-20	08-Jan-21	100%	0	\$18,512	Mark Crofford															
P342MS36	Award Contract for approved LLRF platform choice (MS)		01-Dec-20 A		08-Jan-21	100%	0	\$0	Mark Crofford															
P342P40	Fabrication of LLRF Platform	02-Dec-20 A	15-Mar-21 A	11-Jan-21	02-Aug-21	100%	0	\$0	Mark Crofford															
P342P41	Receive and Inspect LLRF Platform	16-Mar-21 A	01-Sep-21	03-Aug-21	09-Aug-21	29%	66	\$495,352	Mark Crofford															
P342MS50	Fabrication of LLRF Platform Complete (MS)		01-Sep-21		02-Aug-21	0%	0	\$0	Mark Crofford															
<b>P03.04.02.03.02 Frequency Conversion Chassis</b>		<b>26-Oct-20 A</b>	<b>12-Apr-21 A</b>	<b>26-Oct-20</b>	<b>02-Jul-21</b>		<b>0</b>	<b>\$253,956</b>																
P342P106	Prepare SOW and Tech Spec for Frequency Conversion Chassis - Part 1 (thru Oct20)	26-Oct-20 A	30-Oct-20 A	26-Oct-20	30-Oct-20	100%	0	\$0	Mark Crofford															
P342P108	Procurement Readiness Review (PRR) for Frequency Conversion Chassis	02-Nov-20 A	06-Nov-20 A	02-Nov-20	06-Nov-20	100%	0	\$929	Mark Crofford															
P342P106a	Prepare SOW and Tech Spec for Frequency Conversion Chassis - Part 2 (Nov20>) includes sole source justification	02-Nov-20 A	30-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$1,598	Mark Crofford															
P342P365	Fabrication of Band Pass Filters for FrCC chassis	02-Nov-20 A	16-Feb-21 A	02-Nov-20	04-Jan-21	100%	0	\$0	Mark Crofford															
P342MS156	Technical Package to Procurement for Frequency Conversion Chassis (MS)		01-Dec-20 A		20-Nov-20	100%	0	\$0	Mark Crofford															
P342P166	Procurement Review and Bid for Frequency Conversion Chassis	01-Dec-20 A	02-Dec-20 A	23-Nov-20	15-Dec-20	100%	0	\$927	Mark Crofford															
P342MS176	Issue RFP for Frequency Conversion Chassis (MS)		02-Dec-20 A		15-Dec-20	100%	0	\$0	Mark Crofford															
P342P186	Solicitation Period for Frequency Conversion Chassis	03-Dec-20 A	04-Dec-20 A	16-Dec-20	10-Feb-21	100%	0	\$7,497	Mark Crofford															
P342P226	Solicitation Complete for Frequency Conversion Chassis (MS)		04-Dec-20 A		10-Feb-21	100%	0	\$0	Mark Crofford															
P342P121	Review and Award Contract for Frequency Conversion Chassis	07-Dec-20 A	07-Dec-20 A	11-Feb-21	03-Mar-21	100%	0	\$5,277	Mark Crofford															
P342MS236	Award Contract for Frequency Conversion Chassis (MS)		07-Dec-20 A		03-Mar-21	100%	0	\$0	Mark Crofford															
P342P139	Fabrication of Frequency Conversion Chassis	08-Dec-20 A	17-Feb-21 A	04-Mar-21	25-Jun-21	100%	0	\$0	Mark Crofford															
P342P141	Receive and Inspect Frequency Conversion Chassis	17-Feb-21 A	12-Apr-21 A	28-Jun-21	02-Jul-21	100%	0	\$220,256	Mark Crofford															
P342P375	Receive Band Pass Filters for FrCC chassis	17-Feb-21 A	17-Feb-21 A	05-Jan-21	05-Jan-21	100%	0	\$17,472	Mark Crofford															
P342MS149	Fabrication of Frequency Conversion Chassis Complete (MS)		12-Apr-21 A		25-Jun-21	100%	0	\$0	Mark Crofford															
<b>P03.04.02.03.03 FCM-II RTM card</b>		<b>01-Dec-20 A</b>	<b>09-Sep-21</b>	<b>16-Dec-20</b>	<b>09-Aug-21</b>		<b>71</b>	<b>\$116,220</b>																
P342P96	Generate requisitions for FCM-II RTM card	01-Dec-20 A	18-Dec-20 A	16-Dec-20	05-Jan-21	100%	0	\$3,196	Mark Crofford															
P342P111	Procure FCM-II RTM card	04-Jan-21 A	06-Jan-21 A	06-Jan-21	20-Jan-21	100%	0	\$1,974	Mark Crofford															





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P342IMS001	Decision Point: Determine If Existing LLRF Equipment or New LLRF Equipment Should Be Used (MS)	02-Nov-21		01-Oct-21		0%	0	\$0	Mark Crofford														
<b>P03.04.02.04.01 Phase 1 Installation</b>		<b>26-Oct-21</b>	<b>19-Sep-22</b>	<b>24-Sep-21</b>	<b>19-Sep-22</b>		<b>221</b>	<b>\$65,474</b>															
P3421171	Setup LLRF Racks interiors and install shelves/rails (Phase 1)	26-Oct-21	01-Nov-21	24-Sep-21	30-Sep-21	0%	5	\$8,567	Mark Crofford														
P3421176	Install LLRF Equipment in the racks (Phase 1)	02-Nov-21	08-Nov-21	01-Oct-21	07-Oct-21	0%	5	\$5,712	Mark Crofford														
P3421181	Install inner-rack cables and dress rack (Phase 1)	09-Nov-21	15-Nov-21	08-Oct-21	14-Oct-21	0%	5	\$5,712	Mark Crofford														
P3421186	Phase match cables, measure system losses (Phase 1)	16-Nov-21	15-Dec-21	15-Oct-21	11-Nov-21	0%	20	\$11,928	Mark Crofford														
P3421200	Perform system integration for the LLRF system (Phase 1)	18-Jan-22	14-Feb-22	10-Jan-22	07-Feb-22	0%	20	\$29,190	Mark Crofford														
P3421205	Perform system integration for the RF system (Phase 1)	19-Sep-22	19-Sep-22	19-Sep-22	19-Sep-22	0%	1	\$4,365	Mark Crofford														
<b>P03.04.02.04.02 Phase 2 Installation</b>		<b>10-Dec-21</b>	<b>22-Mar-23</b>	<b>27-Oct-21</b>	<b>22-Mar-23</b>		<b>312</b>	<b>\$83,071</b>															
P3421286	Setup LLRF Racks interiors and install shelves/rails (Phase 2)	10-Dec-21	16-Dec-21	27-Oct-21	02-Nov-21	0%	5	\$8,567	Mark Crofford														
P3421266	Install LLRF Equipment in the racks (Phase 2)	19-Jan-22	25-Jan-22	24-Nov-21	02-Dec-21	0%	5	\$8,567	Mark Crofford														
P3421256	Install inner-rack cables and dress rack (Phase 2)	26-Jan-22	01-Feb-22	03-Dec-21	09-Dec-21	0%	5	\$8,567	Mark Crofford														
P3421276	Phase match cables, measure system losses (Phase 2)	02-Feb-22	01-Mar-22	10-Dec-21	18-Jan-22	0%	20	\$17,179	Mark Crofford														
P3421220	Perform system integration for the LLRF system (Phase 2)	18-Apr-22	13-May-22	18-Apr-22	13-May-22	0%	20	\$36,645	Mark Crofford														
P3421210	Perform system integration for the RF system (Phase 2)	22-Mar-23	22-Mar-23	22-Mar-23	22-Mar-23	0%	1	\$3,545	Mark Crofford														
<b>P03.04.02.04.03 Phase 3 Installation</b>		<b>23-Mar-22</b>	<b>23-Apr-24</b>	<b>09-Feb-22</b>	<b>23-Apr-24</b>		<b>516</b>	<b>\$52,891</b>															
P3421291	Setup LLRF Racks interiors and install shelves/rails (Phase 3)	23-Mar-22	29-Mar-22	09-Feb-22	15-Feb-22	0%	5	\$5,712	Mark Crofford														
P3421271	Install LLRF Equipment in the racks (Phase 3)	20-Apr-22	26-Apr-22	08-Mar-22	14-Mar-22	0%	5	\$3,808	Mark Crofford														
P3421261	Install inner-rack cables and dress rack (Phase 3)	27-Apr-22	03-May-22	15-Mar-22	21-Mar-22	0%	5	\$3,808	Mark Crofford														
P3421281	Phase match cables, measure system losses (Phase 3)	04-May-22	01-Jun-22	22-Mar-22	19-Apr-22	0%	20	\$11,452	Mark Crofford														
P3421225	Perform system integration for the LLRF system (Phase 3)	02-Sep-22	30-Sep-22	02-Sep-22	30-Sep-22	0%	20	\$24,430	Mark Crofford														
P3421215	Perform system integration for the RF system (Phase 3)	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	0%	1	\$3,682	Mark Crofford														
<b>P03.04.03 Arc Detectors</b>		<b>01-Jun-18 A</b>	<b>18-Apr-24</b>	<b>01-Jun-18</b>	<b>18-Apr-24</b>		<b>712</b>	<b>\$445,182</b>															
<b>P03.04.03.02 Design - Arc Detectors - (NEP34320)</b>		<b>01-Jun-18 A</b>	<b>14-Oct-20 A</b>	<b>01-Jun-18</b>	<b>14-Oct-20</b>		<b>0</b>	<b>\$0</b>															
P343D1	Review and modify existing specification for Arc detector	01-Jun-18 A	14-Jun-18 A	01-Jun-18	14-Jun-18	100%	0	\$0	Mark Crofford														
P343D6	Create specification document for Arc detector	22-Jun-18 A	14-Sep-18 A	22-Jun-18	14-Sep-18	100%	0	\$0	Mark Crofford														
P343D11	Generate interface documents for Arc detector	01-Aug-18 A	21-Sep-18 A	01-Aug-18	21-Sep-18	100%	0	\$0	Mark Crofford														
P343D146	Procure Test Article Arc Detector	02-Mar-20 A	31-Mar-20 A	02-Mar-20	31-Mar-20	100%	0	\$0	Mark Crofford														
P343D146a	Procure Test Article Arc Detector (Apr20->)	01-Apr-20 A	17-Apr-20 A	01-Apr-20	17-Apr-20	100%	0	\$0	Mark Crofford														
P343D156	Fabricate Test Article Arc Detector	20-Apr-20 A	02-Jun-20 A	20-Apr-20	02-Jun-20	100%	0	\$0	Mark Crofford														
P343D166	Receive Test Article Arc Detector	02-Jun-20 A	30-Sep-20 A	02-Jun-20	30-Sep-20	100%	0	\$0	Mark Crofford														
P343D176	Test the Test Article Arc Detector and validation with the HPM-II	01-Oct-20 A	14-Oct-20 A	01-Oct-20	14-Oct-20	100%	0	\$0	Mark Crofford														
<b>P03.04.03.03 Procure/Fab - Arc Detectors - (NEP34330)</b>		<b>15-Oct-20 A</b>	<b>19-Apr-22</b>	<b>15-Oct-20</b>	<b>07-Mar-22</b>		<b>218</b>	<b>\$420,780</b>															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>P03.04.03.03.01 Arc Detectors</b>		15-Oct-20 A	19-Apr-22	15-Oct-20	07-Mar-22		120	\$380,550															
P343P16	Prepare SOW and Tech Spec for Arc detector	15-Oct-20 A	30-Oct-20 A	15-Oct-20	30-Oct-20	100%	0	\$0	Mark Crofford														
P343P46	Procurement Readiness Review (PRR) for arc detectors	02-Nov-20 A	06-Nov-20 A	02-Nov-20	06-Nov-20	100%	0	\$232	Mark Crofford														
P343MS56	Technical Package to Procurement for arc detectors (MS)		11-Dec-20 A		06-Nov-20	100%	0	\$0	Mark Crofford														
P343P66	Procurement Review and Bid for arc detectors	14-Dec-20 A	04-Jan-21 A	09-Nov-20	01-Dec-20	100%	0	\$386	Mark Crofford														
P343MS76	Issue RFP for arc detectors (MS)		04-Jan-21 A		01-Dec-20	100%	0	\$0	Mark Crofford														
P343P86	Solicitation Period for arc detectors	04-Jan-21 A	01-Feb-21 A	02-Dec-20	20-Jan-21	100%	0	\$2,781	Mark Crofford														
P343P21	Review and Award Contract for arc detectors	05-Jan-21 A	03-Feb-21 A	21-Jan-21	10-Feb-21	100%	0	\$2,526	Mark Crofford														
P343MS106	Solicitation Complete for arc detectors (MS)		01-Feb-21 A		20-Jan-21	100%	0	\$0	Mark Crofford														
P343P116	Award Contract for arc detectors (MS)		03-Feb-21 A		10-Feb-21	100%	0	\$0	Mark Crofford														
P343P24	Fabrication of arc detectors	04-Feb-21 A	14-May-21 A	11-Feb-21	02-Aug-21	100%	0	\$0	Mark Crofford														
P343P31	Receive, Inspect and Store arc detectors	14-May-21 A	28-May-21 A	03-Aug-21	23-Aug-21	100%	0	\$373,197	Mark Crofford														
P343P36	Deliver arc detectors for installation (Phase 1)	19-Oct-21	01-Nov-21	17-Sep-21	30-Sep-21	0%	10	\$476	Mark Crofford														
P343P45	Deliver arc detectors for installation (Phase 2)	04-Jan-22	18-Jan-22	10-Nov-21	23-Nov-21	0%	10	\$476	Mark Crofford														
P343P50	Deliver arc detectors for installation (Phase 3)	05-Apr-22	19-Apr-22	22-Feb-22	07-Mar-22	0%	10	\$476	Mark Crofford														
<b>P03.04.03.03.02 Arc test boxes</b>		01-Feb-21 A	18-Jun-21	11-Feb-21	18-Jun-21		14	\$40,230															
P343P126	Procure arc test boxes (All)	01-Feb-21 A	05-Mar-21 A	11-Feb-21	24-Feb-21	100%	0	\$4,131	Mark Crofford														
P343P41	Fabrication of arc test boxes (All)	08-Mar-21 A	16-Apr-21 A	25-Feb-21	20-May-21	100%	0	\$0	Mark Crofford														
P343P136	Receive and Inspect arc test boxes (All)	19-Apr-21 A	18-Jun-21	21-May-21	18-Jun-21	85%	14	\$36,099	Mark Crofford														
<b>P03.04.03.04 Installation - Arc Detectors</b>		02-Nov-21	18-Apr-24	01-Oct-21	18-Apr-24		604	\$24,402															
<b>P03.04.03.04.01 Phase 1 Installation</b>		02-Nov-21	14-Sep-22	01-Oct-21	14-Sep-22		213	\$8,575															
P343I46	Install (1 thru 4 of 14) arc detector chassis in LLRF racks (Phase 1)	02-Nov-21	09-Nov-21	01-Oct-21	08-Oct-21	0%	6	\$2,856	Mark Crofford														
P343I51	Install arc test system (Phase 1)	02-Sep-22	12-Sep-22	02-Sep-22	12-Sep-22	0%	6	\$2,856	Mark Crofford														
P343I56	Make Final Connections and Test arc detector systems (Phase 1)	13-Sep-22	14-Sep-22	13-Sep-22	14-Sep-22	0%	2	\$2,863	Mark Crofford														
<b>P03.04.03.04.02 Phase 2 Installation</b>		19-Jan-22	17-Mar-23	24-Nov-21	17-Mar-23		289	\$8,790															
P343I60	Install (5 thru 10 of 14) arc detector chassis in LLRF racks (Phase 2)	19-Jan-22	26-Jan-22	24-Nov-21	03-Dec-21	0%	6	\$2,856	Mark Crofford														
P343I70	Install arc test system (Phase 2)	07-Mar-23	14-Mar-23	07-Mar-23	14-Mar-23	0%	6	\$3,951	Mark Crofford														
P343I80	Make Final Connections and Test arc detector systems (Phase 2)	16-Mar-23	17-Mar-23	16-Mar-23	17-Mar-23	0%	2	\$1,983	Mark Crofford														
<b>P03.04.03.04.03 Phase 3 Installation</b>		20-Apr-22	18-Apr-24	08-Mar-22	18-Apr-24		494	\$7,037															
P343I65	Install (11 thru 14 of 14) arc detector chassis in LLRF racks (Phase 3)	20-Apr-22	27-Apr-22	08-Mar-22	15-Mar-22	0%	6	\$1,904	Mark Crofford														
P343I75	Install arc test system (Phase 3)	08-Apr-24	15-Apr-24	08-Apr-24	15-Apr-24	0%	6	\$3,075	Mark Crofford														
P343I85	Make Final Connections and Test arc detector systems (Phase 3)	17-Apr-24	18-Apr-24	17-Apr-24	18-Apr-24	0%	2	\$2,058	Mark Crofford														
<b>P03.04.04 Reference Line</b>		01-Jun-18 A	01-Sep-22	01-Jun-18	01-Sep-22		313	\$284,145															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P03.04.04.02 Design - Reference Line - (NEP34420)		01-Jun-18 A	10-Nov-20 A	01-Jun-18	10-Nov-20		0	\$6,407															
P344D36	Review and modify existing specification for reference line materials - Part 1	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	\$0	Mark Crofford														
P344D36B	Review and modify existing specification for reference line materials	01-Sep-20 A	20-Oct-20 A	01-Sep-20	20-Oct-20	100%	0	\$0	Mark Crofford														
P344D41	Publish specification document for reference line materials	21-Oct-20 A	27-Oct-20 A	21-Oct-20	27-Oct-20	100%	0	\$0	Mark Crofford														
P344D46	Generate interface document for reference line materials	02-Nov-20 A	10-Nov-20 A	02-Nov-20	10-Nov-20	100%	0	\$6,407	Mark Crofford														
P03.04.04.03 Procure/Fab - Reference Line - (NEP34430)		11-Nov-20 A	19-Aug-21	11-Nov-20	19-Aug-21		57	\$256,869															
P344P51	Prepare SOW and Tech Spec for reference line materials	11-Nov-20 A	17-Nov-20 A	11-Nov-20	17-Nov-20	100%	0	\$5,888	Mark Crofford														
P344P54	Procurement Readiness Review (PRR) for for reference line materials	18-Nov-20 A	24-Nov-20 A	18-Nov-20	24-Nov-20	100%	0	\$8,093	Mark Crofford														
P342P265	Procure Helix Type N Radiation Hardened Connectors	18-Nov-20 A	11-Jan-21 A	18-Nov-20	17-Dec-20	100%	0	\$6,479	Mark Crofford														
P344P91	Procurement Review and Bid for reference line materials	08-Dec-20 A	15-Jan-21 A	25-Nov-20	07-Jan-21	100%	0	\$1,159	Mark Crofford														
P344MS81	Technical Package to Procurement for reference line materials (MS)		08-Dec-20 A		24-Nov-20	100%	0	\$0	Mark Crofford														
P342P275	Fabrication of Helix Type N Radiation Hardened Connectors	12-Jan-21 A	05-Apr-21 A	18-Dec-20	26-Apr-21	100%	0	\$0	Mark Crofford														
P344MS101	Issue RFP for reference line materials (MS)		15-Jan-21 A		07-Jan-21	100%	0	\$0	Mark Crofford														
P344P111	Solicitation Period for reference line materials	19-Jan-21 A	08-Mar-21 A	08-Jan-21	26-Feb-21	100%	0	\$2,361	Mark Crofford														
P344P121	Solicitation Complete for reference line materials (MS)		08-Mar-21 A		26-Feb-21	100%	0	\$0	Mark Crofford														
P344P56	Review and Award Contract for reference line materials	09-Mar-21 A	06-Apr-21 A	01-Mar-21	26-Mar-21	100%	0	\$4,446	Mark Crofford														
P342P285	Receive Helix Type N Radiation Hardened Connectors	06-Apr-21 A	06-Apr-21 A	27-Apr-21	27-Apr-21	100%	0	\$172,059	Mark Crofford														
P344MS141	Award Contract for for reference line materials (MS)		06-Apr-21 A		26-Mar-21	100%	0	\$0	Mark Crofford														
P344P76	Fabrication of reference line materials	07-Apr-21 A	28-May-21 A	29-Mar-21	22-Jun-21	100%	0	\$0	Mark Crofford														
P344P66	Fabricate LO amplifier chassis (reference line materials)	03-May-21 A	22-Jul-21	24-Jun-21	22-Jul-21	50%	37	\$14,679	Mark Crofford														
P344P61	Receive reference line materials	28-May-21 A	28-May-21 A	23-Jun-21	23-Jun-21	100%	0	\$27,028	Mark Crofford														
P344P71	Fabricate temperature control chassis (reference line materials)	23-Jul-21	19-Aug-21	23-Jul-21	19-Aug-21	0%	20	\$14,679	Mark Crofford														
P03.04.04.04 Installation - Reference Line		02-Nov-21	01-Sep-22	29-Oct-21	01-Sep-22		205	\$20,868															
P03.04.04.04.01 Phase 1 Installation		02-Nov-21	21-Dec-21	29-Oct-21	17-Nov-21		34	\$9,177															
P344I76	Install LO Amplifier & rack splitters (Phase 1) (Resolve need for Row 49 Rack)	02-Nov-21	05-Nov-21	29-Oct-21	03-Nov-21	0%	4	\$1,904	Mark Crofford														
P344I81	Install reference temperature control chassis (Phase 1)	08-Nov-21	11-Nov-21	04-Nov-21	09-Nov-21	0%	4	\$1,904	Mark Crofford														
P344I86	Install Couplers in LO line (Phase 1)	12-Nov-21	15-Nov-21	10-Nov-21	11-Nov-21	0%	2	\$952	Mark Crofford														
P344I91	Install Reference Line connections (Phase 1)	16-Dec-21	17-Dec-21	12-Nov-21	15-Nov-21	0%	2	\$1,904	Mark Crofford														
P344I100	Verify RF Levels (Phase 1)	20-Dec-21	21-Dec-21	16-Nov-21	17-Nov-21	0%	2	\$2,514	Mark Crofford														
P03.04.04.04.02 Phase 2 Installation		28-Mar-22	14-Apr-22	28-Mar-22	14-Apr-22		14	\$6,321															
P344I77	Install LO Amplifier & rack splitters (Phase 2)	28-Mar-22	31-Mar-22	28-Mar-22	31-Mar-22	0%	4	\$952	Mark Crofford														
P344I82	Install reference temperature control chassis (Phase 2)	01-Apr-22	06-Apr-22	01-Apr-22	06-Apr-22	0%	4	\$952	Mark Crofford														
P344I87	Install Couplers in LO line (Phase 2)	07-Apr-22	08-Apr-22	07-Apr-22	08-Apr-22	0%	2	\$1,904	Mark Crofford														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P344I92	Install Reference Line connections (Phase 2)	11-Apr-22	12-Apr-22	11-Apr-22	12-Apr-22	0%	2	\$952	Mark Crofford															
P344I105	Verify RF Levels (Phase 2)	13-Apr-22	14-Apr-22	13-Apr-22	14-Apr-22	0%	2	\$1,562	Mark Crofford															
P03.04.04.04.03 Phase 3 Installation		15-Aug-22	01-Sep-22	15-Aug-22	01-Sep-22		14	\$5,369																
P344I78	Install LO Amplifier & rack splitters (Phase 3)	15-Aug-22	18-Aug-22	15-Aug-22	18-Aug-22	0%	4	\$952	Mark Crofford															
P344I83	Install reference temperature control chassis (Phase 3)	19-Aug-22	24-Aug-22	19-Aug-22	24-Aug-22	0%	4	\$952	Mark Crofford															
P344I89	Install Couplers in LO line (Phase 3)	25-Aug-22	26-Aug-22	25-Aug-22	26-Aug-22	0%	2	\$952	Mark Crofford															
P344I93	Install Reference Line connections (Phase 3)	29-Aug-22	30-Aug-22	29-Aug-22	30-Aug-22	0%	2	\$952	Mark Crofford															
P344I110	Verify RF Levels (Phase 3)	31-Aug-22	01-Sep-22	31-Aug-22	01-Sep-22	0%	2	\$1,562	Mark Crofford															
P03.05 Existing Linac Modulators		03-Oct-16 A	19-Jul-23	03-Oct-16	19-Jul-23		527	\$2,021,043																
P03.05.01 Management and System Integration - Existing Linac Modulators		03-Oct-16 A	18-Jul-23	03-Oct-16	18-Jul-23		526	\$143,036																
P03.05.01.01 Management and System Integration - Existing Linac Modulators - (NEP35110)		03-Oct-16 A	18-Jul-23	03-Oct-16	18-Jul-23		526	\$143,036																
P351M61	WBS Management P.3.5.2 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Chris Pappas	■	■													
P351M72	WBS Management P.3.5.3 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Chris Pappas	■	■													
P351M1	WBS Management P.3.5 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Chris Pappas	■	■													
P351M4	WBS Management P.3.5 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Chris Pappas		■	■												
P351M63	WBS Management P.3.5.2 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Chris Pappas		■	■												
P351M73	WBS Management P.3.5.3 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Chris Pappas		■	■												
P351M79	WBS Management P.3.5.4 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Chris Pappas		■	■												
P351M62	WBS Management P.3.5.2 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas			■	■											
P351M74	WBS Management P.3.5.3 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas			■	■											
P351M90	WBS Management P.3.5.5 FY18 (May Through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas			■	■											
P351M80	WBS Management P.3.5.4 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas			■	■											
P351M6	WBS Management P.3.5 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas			■	■											
P351M11	WBS Management P.3.5 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas				■	■										
P351M65	WBS Management P.3.5.2 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas				■	■										
P351M76	WBS Management P.3.5.3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas				■	■										
P351M82	WBS Management P.3.5.4 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas				■	■										
P351M92	WBS Management P.3.5.5 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas				■	■										
P351M600	WBS Management P.3.5.6 FY19 (LOE) (Apr19-Aug19)	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Chris Pappas						■	■								
P351M11B	WBS Management P.3.5 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Chris Pappas						■	■								
P351M76B	WBS Management P.3.5.3 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Chris Pappas						■	■								
P351M76C	WBS Management P.3.5.3 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Chris Pappas							■								
P351M11C	WBS Management P.3.5 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Chris Pappas							■								

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P351M600C	WBS Management P.3.5.6 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Chris Pappas															
P351M16	WBS Management P.3.5 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Chris Pappas															
P351M605	WBS Management P.3.5.6 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Chris Pappas															
P351M16a	WBS Management P.3.5 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Chris Pappas															
P351M605a	WBS Management P.3.5.6 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Chris Pappas															
P351M21	WBS Management P.3.5 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Chris Pappas															
P351M610	WBS Management P.3.5.6 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Chris Pappas															
P351M21a	WBS Management P.3.5 FY21 (LOE) Part 2 (Nov20 - Dec20)	02-Nov-20 A	31-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$4,312	Chris Pappas															
P351M610a	WBS Management P.3.5.6 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$26,637	Chris Pappas															
P351M21b	WBS Management P.3.5 FY21 (LOE) Part 2 (Jan21 - Sep21)	04-Jan-21 A	30-Sep-21	04-Jan-21	30-Sep-21	54.5%	86	\$21,514	Chris Pappas															
P351M26	WBS Management P.3.5 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$29,939	Chris Pappas															
P351M615	WBS Management P.3.5.6 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$19,959	Chris Pappas															
P351M128	WBS Management P.3.5 FY23 (LOE)	03-Oct-22	18-Jul-23	03-Oct-22	18-Jul-23	0%	193	\$24,904	Chris Pappas															
P351M625	WBS Management P.3.5.6 FY23 (LOE)	03-Oct-22	18-Jul-23	03-Oct-22	18-Jul-23	0%	193	\$15,772	Chris Pappas															
P.03.05.04 Modulator System Test Article Development and Testing		01-Jun-18 A	31-May-19 A	01-Jun-18	31-May-19		0	\$0																
P.03.05.04.02 Design - Modulator System Test Article Development and Testing - (NEP35420)		01-Jun-18 A	31-May-19 A	01-Jun-18	31-May-19		0	\$0																
P354D30	Solicit bids and award contract for transformer components (X3) for test article	01-Jun-18 A	01-Aug-18 A	01-Jun-18	01-Aug-18	100%	0	\$0	Chris Pappas															
P354D40	Procure and receive boost transformers (X3) for test article - Part 1	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P354D45	Solicit bids and award contract for test load or equivalent	01-Jun-18 A	14-Jun-18 A	01-Jun-18	14-Jun-18	100%	0	\$0	Chris Pappas															
P354D50	Receive, assemble and initial test load or equivalent - Part 1	15-Jun-18 A	28-Sep-18 A	15-Jun-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P354D21	Component redesign and generate specification for transformer components (X3) for test article	02-Jul-18 A	16-Jul-18 A	02-Jul-18	16-Jul-18	100%	0	\$0	Chris Pappas															
P354D26	Develop Test Plan for transformer and capacitor testing	17-Jul-18 A	18-Jul-18 A	17-Jul-18	18-Jul-18	100%	0	\$0	Chris Pappas															
P354D140	Procure and receive oil for test load	18-Jul-18 A	10-Aug-18 A	18-Jul-18	10-Aug-18	100%	0	\$0	Chris Pappas															
P354D120	Reconfigure RF Annex infrastructure for test load - Part 1	23-Jul-18 A	28-Sep-18 A	23-Jul-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P354D110	Procure and Receive Misc materials and supplies to support testing - Part 1	02-Aug-18 A	28-Sep-18 A	02-Aug-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P354D34	Fabricate capacitors (X3) for test article	02-Aug-18 A	28-Aug-18 A	02-Aug-18	28-Aug-18	100%	0	\$0	Chris Pappas															
P354D35	Receive capacitors (X3) for test article	29-Aug-18 A	29-Aug-18 A	29-Aug-18	29-Aug-18	100%	0	\$0	Chris Pappas															
P354MS001	RFTF Available for Testing (MS)	24-Sep-18 A		24-Sep-18		100%	0	\$0	Chris Pappas															
P354D70	Bench testing of test article capacitors	01-Oct-18 A	01-Oct-18 A	01-Oct-18	01-Oct-18	100%	0	\$0	Chris Pappas															
P354D110B	Procure and Receive Misc materials and supplies to support testing - Continued from 90%	01-Oct-18 A	17-Oct-18 A	01-Oct-18	17-Oct-18	100%	0	\$0	Chris Pappas															
P354D120B	Reconfigure RF Annex infrastructure for test load - Continued from 35%	01-Oct-18 A	16-Nov-18 A	01-Oct-18	16-Nov-18	100%	0	\$0	Chris Pappas															
P354D40B	Procure and receive boost transformers (X3) for test article - Continued from 60%	01-Oct-18 A	14-Nov-18 A	01-Oct-18	14-Nov-18	100%	0	\$0	Chris Pappas															
P354D50B	Receive, assemble and initial test load or equivalent - Continued from 50%	01-Oct-18 A	09-Nov-18 A	01-Oct-18	09-Nov-18	100%	0	\$0	Chris Pappas															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P354D60	Assemble 1st test article transformer and install in single phase test stand	18-Oct-18 A	24-Oct-18 A	18-Oct-18	24-Oct-18	100%	0	\$0	Chris Pappas															
P354D142	RFQ klystron only test of RFQ-Mod1	01-Nov-18 A	06-Nov-18 A	01-Nov-18	06-Nov-18	100%	0	\$0	Chris Pappas															
P354D55	Modify hardware for test load to mimic dual 3.0 MW klystrons	12-Nov-18 A	27-Nov-18 A	12-Nov-18	27-Nov-18	100%	0	\$0	Chris Pappas															
P354D75	Assemble remaining transformers, install with capacitors in HVCM tank. Relocate tank to RFTF HVCM location	15-Nov-18 A	21-Nov-18 A	15-Nov-18	21-Nov-18	100%	0	\$0	Chris Pappas															
P354D130	Modify cooling skid and connect for test load	19-Nov-18 A	21-Nov-18 A	19-Nov-18	21-Nov-18	100%	0	\$0	Chris Pappas															
P354D95	Test dual 3.0 MW klystron HVCM system, quantify performance, perform long-term reliability test	27-Nov-18 A	21-Dec-18 A	27-Nov-18	21-Dec-18	100%	0	\$0	Chris Pappas															
P354D80	Assembly of test load or equivalent	28-Nov-18 A	28-Nov-18 A	28-Nov-18	28-Nov-18	100%	0	\$0	Chris Pappas															
P354D85	Connect load, leak test, bench test, other interface issues	29-Nov-18 A	30-Nov-18 A	29-Nov-18	30-Nov-18	100%	0	\$0	Chris Pappas															
P354D145	Extended reliability run of existing RFQ-Mod1	03-Dec-18 A	14-Dec-18 A	03-Dec-18	14-Dec-18	100%	0	\$0	Chris Pappas															
P354D155	Evaluate results of RFQ-Mod1 reliability run	17-Dec-18 A	21-Dec-18 A	17-Dec-18	21-Dec-18	100%	0	\$0	Chris Pappas															
P354D95a	Fabricate and Measure Alternate Boost Transformer Primaries	02-Jan-19 A	18-Jan-19 A	02-Jan-19	18-Jan-19	100%	0	\$0	Chris Pappas															
P354D95aa	Fabricate and Measure Alternate Boost Transformer Secondaries	22-Jan-19 A	20-Feb-19 A	22-Jan-19	20-Feb-19	100%	0	\$0	Chris Pappas															
P354D95b	Test Secondaries in SPTS & Modify Remaining Secondaries	01-Mar-19 A	28-Mar-19 A	01-Mar-19	28-Mar-19	100%	0	\$0	Chris Pappas															
P354D95f	Uninstall Second Upgrade Test Hardware from RFTF Tank (Decided to leave in the tank)	01-Apr-19 A	03-Apr-19 A	01-Apr-19	03-Apr-19	100%	0	\$0	Chris Pappas															
P354D95c	Assemble and Test Second Upgrade Boost Transformer	01-Apr-19 A	02-Apr-19 A	01-Apr-19	02-Apr-19	100%	0	\$0	Chris Pappas															
P354D95d	Install Second Upgrade Test Hardware from RFTF Tank	03-Apr-19 A	04-Apr-19 A	03-Apr-19	04-Apr-19	100%	0	\$0	Chris Pappas															
P354D95e	Test Second Upgrade Hardware in RFTF Tank	05-Apr-19 A	31-May-19 A	05-Apr-19	31-May-19	100%	0	\$0	Chris Pappas															
P03.05.05 Warm Linac Test HVCM		12-Jun-18 A	01-Jun-20 A	12-Jun-18	01-Jun-20		0	\$0																
P03.05.05.02 Design - Warm Linac Test HVCM - (NEP35520)		12-Jun-18 A	01-Jun-20 A	12-Jun-18	01-Jun-20		0	\$0																
P355D100	Modify SCR specification to remove internal controls	12-Jun-18 A	13-Jul-18 A	12-Jun-18	13-Jul-18	100%	0	\$0	Chris Pappas															
P355MS01	Start Dedicated RFAX HVCM Effort (MS)	12-Jun-18 A		12-Jun-18		100%	0	\$0	Chris Pappas															
P355D182	DCN infrastructure for Electrical systems - Part 1	13-Jul-18 A	28-Sep-18 A	13-Jul-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P355D192	DCN infrastructure for cooling systems - Part 1	13-Jul-18 A	28-Sep-18 A	13-Jul-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P355D175	Procure and Receive SCR Cabinet - Part 1	16-Jul-18 A	28-Sep-18 A	16-Jul-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P355D170	Procure and Receive Transformer/ Harmonic traps - Part 1	25-Jul-18 A	28-Sep-18 A	25-Jul-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P355D220	Modify infrastructure - Part 1	25-Jul-18 A	28-Sep-18 A	25-Jul-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P355D172	Vendor design review for SCR and transformer	27-Aug-18 A	27-Aug-18 A	27-Aug-18	27-Aug-18	100%	0	\$0	Chris Pappas															
P355D155	HVCM Tank - Procure, Receive and Assemble rectifier assemblies - Part 1	31-Aug-18 A	28-Sep-18 A	31-Aug-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P355D140	HVCM Tank - Procure and Receive Oil	04-Sep-18 A	28-Sep-18 A	04-Sep-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P355D220B	Modify infrastructure	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas															
P355D155B	HVCM Tank - Procure, Receive and Assemble rectifier assemblies	01-Oct-18 A	31-Jan-19 A	01-Oct-18	31-Jan-19	100%	0	\$0	Chris Pappas															
P355D170B	Procure and Receive Transformer/ Harmonic traps	01-Oct-18 A	27-Dec-18 A	01-Oct-18	27-Dec-18	100%	0	\$0	Chris Pappas															
P355D175B	Procure and Receive SCR Cabinet	01-Oct-18 A	27-Dec-18 A	01-Oct-18	27-Dec-18	100%	0	\$0	Chris Pappas															





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P03.05.06.02 Design - Upgrade RFQ/DTL Modulators - (NEP35620)		01-Apr-19 A	10-Dec-21	01-Apr-19	10-Dec-21		135	\$451,186															
P03.05.06.02.01 Conceptual Design		01-Apr-19 A	06-Dec-19 A	01-Apr-19	06-Dec-19		0	\$0															
P03.05.06.02.01.01 Analysis		01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19		0	\$0															
P356D010	CKT Analysis - Optimization	01-Apr-19 A	29-May-19 A	01-Apr-19	29-May-19	100%	0	\$0	Chris Pappas														
P356D020	CKT Analysis - Charging Supply	11-Apr-19 A	28-Jun-19 A	11-Apr-19	28-Jun-19	100%	0	\$0	Chris Pappas														
P03.05.06.02.01.02 Component Design		18-Apr-19 A	06-Dec-19 A	18-Apr-19	06-Dec-19		0	\$0															
P356D030	Pulse Transformer Preliminary Design	18-Apr-19 A	20-May-19 A	18-Apr-19	20-May-19	100%	0	\$0	Chris Pappas														
P356D040	Resonant Peaking Capacitor Design	21-May-19 A	14-Jun-19 A	21-May-19	14-Jun-19	100%	0	\$0	Chris Pappas														
P356D050	Semiconductor Selection	17-Jun-19 A	24-Jun-19 A	17-Jun-19	24-Jun-19	100%	0	\$0	Chris Pappas														
P356D060	Output Choke Design	25-Jun-19 A	27-Jun-19 A	25-Jun-19	27-Jun-19	100%	0	\$0	Chris Pappas														
P356D080	Mechanical Conceptual Design	27-Jun-19 A	28-Jun-19 A	27-Jun-19	28-Jun-19	100%	0	\$0	Chris Pappas														
P356D070	Output Capacitor Design	09-Jul-19 A	19-Jul-19 A	09-Jul-19	19-Jul-19	100%	0	\$0	Chris Pappas														
P03.05.06.02.01.02.01 Preliminary Design Review		17-Jun-19 A	06-Dec-19 A	17-Jun-19	06-Dec-19		0	\$0															
P356D090	Preparation & PDR for RFQ-Mod1 Upgrade	17-Jun-19 A	08-Jul-19 A	17-Jun-19	08-Jul-19	100%	0	\$0	Chris Pappas														
P356D100	PDR Response for RFQ-Mod1 Upgrade	09-Jul-19 A	30-Aug-19 A	09-Jul-19	30-Aug-19	100%	0	\$0	Chris Pappas														
P356D100I	PDR Response for RFQ-Mod1 Upgrade - Continued	03-Sep-19 A	06-Dec-19 A	03-Sep-19	06-Dec-19	100%	0	\$0	Chris Pappas														
P03.05.06.02.02 High Voltage Tank		21-Jun-19 A	14-Sep-21	21-Jun-19	23-Jun-21		74	\$68,162															
P03.05.06.02.02.01 Electronic Design		21-Jun-19 A	20-May-20 A	21-Jun-19	20-May-20		0	\$0															
P356D110	Pulse Transformer Design	21-Jun-19 A	21-Aug-19 A	21-Jun-19	21-Aug-19	100%	0	\$0	Chris Pappas														
P356D120	Resonant Capacitor Design	21-Jun-19 A	15-Aug-19 A	21-Jun-19	15-Aug-19	100%	0	\$0	Chris Pappas														
P356D130	Diode Stack Design	21-Jun-19 A	21-Aug-19 A	21-Jun-19	21-Aug-19	100%	0	\$0	Chris Pappas														
P356D1005	Procure and Receive POP transformer	03-Feb-20 A	31-Mar-20 A	03-Feb-20	31-Mar-20	100%	0	\$0	Chris Pappas														
P356D110b	Proof of Principle transformer design	14-Feb-20 A	17-Feb-20 A	14-Feb-20	17-Feb-20	100%	0	\$0	Chris Pappas														
P356D130b	Diode PCB design	14-Feb-20 A	13-Mar-20 A	14-Feb-20	13-Mar-20	100%	0	\$0	Chris Pappas														
P356D1021	Rectifier PCB design	28-Feb-20 A	12-Mar-20 A	28-Feb-20	12-Mar-20	100%	0	\$0	Chris Pappas														
P356D1008	Procure and Receive first article diode PCB	16-Mar-20 A	31-Mar-20 A	16-Mar-20	31-Mar-20	100%	0	\$0	Chris Pappas														
P356D1022	Procure and Receive first article rectifier PCB	19-Mar-20 A	31-Mar-20 A	19-Mar-20	31-Mar-20	100%	0	\$0	Chris Pappas														
P356D1006	Bench and SPTS test POP transformer	01-Apr-20 A	10-Apr-20 A	01-Apr-20	10-Apr-20	100%	0	\$0	Chris Pappas														
P356D1005a	Fabricate and Receive POP transformer - Continued	01-Apr-20 A	10-Apr-20 A	01-Apr-20	10-Apr-20	100%	0	\$0	Chris Pappas														
P356D1008a	Procure and Receive first article diode PCB - Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Chris Pappas														
P356D1022a	Procure and Receive first article rectifier PCB - Continued	01-Apr-20 A	08-May-20 A	01-Apr-20	08-May-20	100%	0	\$0	Chris Pappas														
P356D1073	Generate 2nd POP transformer drawings	20-Apr-20 A	21-Apr-20 A	20-Apr-20	21-Apr-20	100%	0	\$0	Chris Pappas														
P356D1083	Procure 2nd POP transformer	22-Apr-20 A	23-Apr-20 A	22-Apr-20	23-Apr-20	100%	0	\$0	Chris Pappas														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P356D1093	Fabricate 2nd POP transformer	24-Apr-20 A	15-May-20 A	24-Apr-20	15-May-20	100%	0	\$0	Chris Pappas																						
P356D1009	Bench test PCB	27-Apr-20 A	11-May-20 A	27-Apr-20	11-May-20	100%	0	\$0	Chris Pappas																						
P356D1103	Receive 2nd POP transformer	15-May-20 A	15-May-20 A	15-May-20	15-May-20	100%	0	\$0	Chris Pappas																						
P356D1113	Bench Test 2nd POP transformer	15-May-20 A	20-May-20 A	15-May-20	20-May-20	100%	0	\$0	Chris Pappas																						
P03.05.06.02.02.02 Mechanical Design		22-Aug-19 A	14-Sep-21	22-Aug-19	23-Jun-21		74	\$68,162																							
P356D140	HV Tank Mechanical Assembly Design	22-Aug-19 A	30-Aug-19 A	22-Aug-19	30-Aug-19	100%	0	\$0	Chris Pappas																						
P356D150	HV Tank Oil System Design	22-Aug-19 A	30-Aug-19 A	22-Aug-19	30-Aug-19	100%	0	\$0	Chris Pappas																						
P356D160	HV Tank Cabling Plan	22-Aug-19 A	30-Aug-19 A	22-Aug-19	30-Aug-19	100%	0	\$0	Chris Pappas																						
P356D140b	HV Tank Mechanical Assembly Design - Continued	03-Sep-19 A	30-Oct-19 A	03-Sep-19	30-Oct-19	100%	0	\$0	Chris Pappas																						
P356D150b	HV Tank Oil System Design - Continued	03-Sep-19 A	21-Oct-19 A	03-Sep-19	21-Oct-19	100%	0	\$0	Chris Pappas																						
P356D160b	HV Tank Cabling Plan - Continued	03-Sep-19 A	31-Oct-19 A	03-Sep-19	31-Oct-19	100%	0	\$0	Chris Pappas																						
P356D140c	HV Tank Mechanical Assy design	14-Feb-20 A	31-Mar-20 A	14-Feb-20	31-Mar-20	100%	0	\$0	Chris Pappas																						
P356D150c	HV Tank Oil System design	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Chris Pappas																						
P356D160c	HV Tank cabling plan	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Chris Pappas																						
P356D140d	HV Tank Mechanical Assy design - Continued (Apr20>)	01-Apr-20 A	31-Jul-20 A	01-Apr-20	31-Jul-20	100%	0	\$0	Chris Pappas																						
P356D160d	HV Tank cabling plan - Continued (Apr20>)	01-May-20 A	14-Aug-20 A	01-May-20	14-Aug-20	100%	0	\$0	Chris Pappas																						
P356D150d	HV Tank Oil System design - Continued (Apr20>)	16-Jul-20 A	05-Aug-20 A	16-Jul-20	05-Aug-20	100%	0	\$0	Chris Pappas																						
P356D140db	IGBT switch plate drawing update D215	22-Sep-20 A	12-Oct-20 A	22-Sep-20	12-Oct-20	100%	0	\$0	Chris Pappas																						
P356D140da	Primary bus assembly drawings D365	22-Sep-20 A	06-Oct-20 A	22-Sep-20	06-Oct-20	100%	0	\$0	Chris Pappas																						
P356D140dc	Transformer drawing renumber D346	23-Sep-20 A	23-Sep-20 A	23-Sep-20	23-Sep-20	100%	0	\$0	Chris Pappas																						
P356D140dd	Resonant capacitor drawing renumber D331	16-Oct-20 A	20-Oct-20 A	16-Oct-20	20-Oct-20	100%	0	\$0	Chris Pappas																						
P356D150da	Finalize model for oil distribution system	20-Oct-20 A	22-Oct-20 A	20-Oct-20	22-Oct-20	100%	0	\$0	Chris Pappas																						
P356D555	Redesign based on prototype results	05-Apr-21 A	27-Jul-21	03-Feb-21	16-Mar-21	40%	40	\$45,482	Chris Pappas																						
P356D150db	HV tank oil distribution design optimization	30-Aug-21	14-Sep-21	09-Jun-21	23-Jun-21	0%	11	\$22,680	Chris Pappas																						
P03.05.06.02.03 High Voltage Enclosure		15-Aug-19 A	15-Oct-20 A	15-Aug-19	15-Oct-20		0	\$0																							
P03.05.06.02.03.01 Electronic Design		15-Aug-19 A	30-Aug-19 A	15-Aug-19	30-Aug-19		0	\$0																							
P356D190	HV Enclosure - Capacitor Bank Design	15-Aug-19 A	30-Aug-19 A	15-Aug-19	30-Aug-19	100%	0	\$0	Chris Pappas																						
P03.05.06.02.03.02 Mechanical Design		27-Mar-20 A	15-Oct-20 A	27-Mar-20	15-Oct-20		0	\$0																							
P356D210	Capacitor bank mechanical design	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Chris Pappas																						
P356D210a	Capacitor bank mechanical design (Apr20>)	21-May-20 A	30-Jul-20 A	21-May-20	30-Jul-20	100%	0	\$0	Chris Pappas																						
P356D220	Check drawings	31-Jul-20 A	15-Oct-20 A	31-Jul-20	15-Oct-20	100%	0	\$0	Chris Pappas																						
P03.05.06.02.04 Charging Supply		01-Aug-19 A	15-Oct-19 A	01-Aug-19	15-Oct-19		0	\$0																							
P356D230	Update Power Supply Design	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Chris Pappas																						



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016 - FY2028																														
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
P03.05.06.02.06.02 Rectifier PCBs																																								
P356D408	Procure 2nd set of rectifier PCBs for test article	01-Jun-20 A	11-Jun-20 A	01-Jun-20	11-Jun-20	100%	0	\$0	Chris Pappas																															
P356D409	Fabricate 2nd set of rectifier PCBs for test article	12-Jun-20 A	22-Sep-20 A	12-Jun-20	22-Sep-20	100%	0	\$0	Chris Pappas																															
P356D1031	Procure mounting hardware for rectifier PCBs	01-Jul-20 A	06-Aug-20 A	01-Jul-20	06-Aug-20	100%	0	\$0	Chris Pappas																															
P356D1053	Fabricate mounting hardware for rectifier PCBs	13-Aug-20 A	22-Sep-20 A	13-Aug-20	22-Sep-20	100%	0	\$0	Chris Pappas																															
P356D411	Receive 2nd set of rectifier PCBs for test article	23-Sep-20 A	23-Sep-20 A	23-Sep-20	23-Sep-20	100%	0	\$0	Chris Pappas																															
P356D1063	Receive mounting hardware for rectifier PCBs	23-Sep-20 A	23-Sep-20 A	23-Sep-20	23-Sep-20	100%	0	\$0	Chris Pappas																															
P356D650	Assemble 2nd Set Rectifier for Test Article	24-Sep-20 A	20-Oct-20 A	24-Sep-20	20-Oct-20	100%	0	\$0	Chris Pappas																															
P03.05.06.02.06.03 Resonant Capacitors and Assembly Parts																																								
P356D610	Procure 2nd set of resonant capacitors for test article	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Chris Pappas																															
P356D615	Fabrication of 2nd set of resonant capacitors for test article	06-Apr-20 A	15-Jul-20 A	06-Apr-20	15-Jul-20	100%	0	\$0	Chris Pappas																															
P356D620	Procure assembly hardware for resonant capacitors for test article	15-Jun-20 A	06-Aug-20 A	15-Jun-20	06-Aug-20	100%	0	\$0	Chris Pappas																															
P356D680	Receive 2nd set of resonant capacitors & hardware for test article	15-Jul-20 A	15-Jul-20 A	15-Jul-20	15-Jul-20	100%	0	\$0	Chris Pappas																															
P356D690	Fabrication of 2nd set of Resonant capacitors complete (MS)		15-Jul-20 A		15-Jul-20	100%	0	\$0	Chris Pappas																															
P356D600	Fabrication of assembly hardware for resonant capacitors for test article	13-Aug-20 A	23-Sep-20 A	13-Aug-20	23-Sep-20	100%	0	\$0	Chris Pappas																															
P356D691	Fabrication Assembly Hardware for resonant capacitors for test article (MS)		23-Sep-20 A		23-Sep-20	100%	0	\$0	Chris Pappas																															
P356D681	Receive Assembly Hardware for resonant capacitors for test article	24-Sep-20 A	24-Sep-20 A	24-Sep-20	24-Sep-20	100%	0	\$0	Chris Pappas																															
P356D639	Delivery of remaining 2nd set of resonant capacitors & hardware for test article	02-Nov-20 A	04-Nov-20 A	02-Nov-20	04-Nov-20	100%	0	\$0	Chris Pappas																															
P356D640	Assembly of resonant capacitors for test article	05-Nov-20 A	18-Dec-20 A	05-Nov-20	16-Nov-20	100%	0	\$4,920	Chris Pappas																															
P03.05.06.02.06.04 Safety Enclosure Items and Parts																																								
P356D810	Procure new tank basket	01-Jun-20 A	18-Jun-20 A	01-Jun-20	18-Jun-20	100%	0	\$0	Chris Pappas																															
P356D812	Fabricate new tank basket	19-Jun-20 A	14-Jul-20 A	19-Jun-20	14-Jul-20	100%	0	\$0	Chris Pappas																															
P356D814	Receive new tank basket	15-Jul-20 A	15-Jul-20 A	15-Jul-20	15-Jul-20	100%	0	\$0	Chris Pappas																															
P356D800	Procure extended capacitor plates	01-Oct-20 A	14-Oct-20 A	01-Oct-20	14-Oct-20	100%	0	\$0	Chris Pappas																															
P356D802	Fabricate extended capacitor plates	02-Nov-20 A	23-Nov-20 A	02-Nov-20	25-Nov-20	100%	0	\$0	Chris Pappas																															
P356D804	Receive extended capacitor plates	24-Nov-20 A	24-Nov-20 A	30-Nov-20	30-Nov-20	100%	0	\$7,223	Chris Pappas																															
P03.05.06.02.07 TestArticle Testing																																								
P356D500	Test article assembly	25-Nov-20 A	05-Mar-21 A	01-Dec-20	04-Jan-21	100%	0	\$42,911	Chris Pappas																															
P356D1043	Test article initial testing dummy load	08-Mar-21 A	11-May-21 A	05-Jan-21	02-Feb-21	100%	0	\$16,853	Chris Pappas																															
P356D1045	Relocate tank and lam bus to RFTF	12-May-21 A	14-May-21 A	22-Feb-21	12-Mar-21	100%	0	\$44,572	Chris Pappas																															
P356D510	Test article testing into RFTF klystron(s)	17-May-21 A	27-Aug-21	15-Mar-21	08-Jun-21	15%	63	\$82,070	Chris Pappas																															
P03.05.06.02.08 Final Design Review																																								
P356D520	Prep for FDR Upgraded Modulator Systems (RFQ and DTL)	17-Aug-20 A	21-Sep-20 A	17-Aug-20	21-Sep-20	100%	0	\$0	Chris Pappas																															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29				
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P356D97	FDR Upgraded Modulator Systems (RFQ and DTL)	22-Sep-20 A	22-Sep-20 A	22-Sep-20	22-Sep-20	100%	0	\$0	Chris Pappas																		
P356D540	FDR Response	02-Nov-20 A	12-Jan-21 A	02-Nov-20	13-Nov-20	100%	0	\$2,956	Chris Pappas																		
P356MS005	Response to Final Design Review of the Upgraded Modulator Systems Completed (MS)		12-Jan-21 A		13-Nov-20	100%	0	\$0	Chris Pappas																		
<b>P03.05.06.02.09 Additional Designs Identified During TestArticle Testing</b>		01-Jul-21	10-Dec-21	01-Jul-21	10-Dec-21		113	\$177,251																			
<b>P03.05.06.02.09.01 New Windings</b>		01-Jul-21	06-Dec-21	01-Jul-21	06-Dec-21		109	\$104,873																			
P356D1123	Electrical Design - New Windings	01-Jul-21*	10-Aug-21	01-Jul-21	10-Aug-21	0%	28	\$13,053	Chris Pappas																		
P356D1133	Mechanical Design - New Windings	11-Aug-21	31-Aug-21	11-Aug-21	31-Aug-21	0%	15	\$16,024	Chris Pappas																		
P356D1143	Procure - New Windings	01-Sep-21	08-Sep-21	01-Sep-21	08-Sep-21	0%	5	\$860	Chris Pappas																		
P356D1153	Fabricate - New Windings	09-Sep-21	03-Nov-21	09-Sep-21	03-Nov-21	0%	40	\$0	Chris Pappas																		
P356D1163	Receive - New Windings	04-Nov-21	04-Nov-21	04-Nov-21	04-Nov-21	0%	1	\$54,570	Chris Pappas																		
P356D1173	Install - New Windings	05-Nov-21	18-Nov-21	05-Nov-21	18-Nov-21	0%	10	\$11,461	Chris Pappas																		
P356D1183	Test - New Windings	19-Nov-21	06-Dec-21	19-Nov-21	06-Dec-21	0%	10	\$8,905	Chris Pappas																		
<b>P03.05.06.02.09.02 Series Choke</b>		01-Jul-21	10-Dec-21	01-Jul-21	10-Dec-21		113	\$72,378																			
P356D1193	Electrical Design - Series Choke	01-Jul-21*	26-Jul-21	01-Jul-21	26-Jul-21	0%	17	\$7,870	Chris Pappas																		
P356D1197	Mounting HDWR & Buses Design	27-Jul-21	16-Aug-21	27-Jul-21	16-Aug-21	0%	15	\$16,024	Chris Pappas																		
P356D1203	Mechanical Design - Series Choke	17-Aug-21	07-Sep-21	17-Aug-21	07-Sep-21	0%	15	\$16,024	Chris Pappas																		
P356D1213	Procure - Series Choke	08-Sep-21	14-Sep-21	08-Sep-21	14-Sep-21	0%	5	\$860	Chris Pappas																		
P356D1223	Fabricate - Series Choke	15-Sep-21	09-Nov-21	15-Sep-21	09-Nov-21	0%	40	\$0	Chris Pappas																		
P356D1233	Receive - Series Choke	10-Nov-21	10-Nov-21	10-Nov-21	10-Nov-21	0%	1	\$11,235	Chris Pappas																		
P356D1243	Install - Series Choke	11-Nov-21	24-Nov-21	11-Nov-21	24-Nov-21	0%	10	\$11,461	Chris Pappas																		
P356D1253	Test - Series Choke	29-Nov-21	10-Dec-21	29-Nov-21	10-Dec-21	0%	10	\$8,905	Chris Pappas																		
<b>P03.05.06.03 Procure/Fab - Upgrade RFQ/DTL Modulators - (NEP35630)</b>		01-Dec-20 A	06-May-22	16-Nov-20	06-May-22		223	\$927,635																			
<b>P03.05.06.03.01 Serial Chokes</b>		13-Dec-21	28-Mar-22	13-Dec-21	28-Mar-22		68	\$34,200																			
P356P1158	Procure Series Chokes	13-Dec-21	14-Dec-21	13-Dec-21	14-Dec-21	0%	2	\$495	Chris Pappas																		
P356P1168	Fabricate Series Chokes	15-Dec-21	25-Mar-22	15-Dec-21	25-Mar-22	0%	65	\$0	Chris Pappas																		
P356P1198	Receive Series Chokes	28-Mar-22	28-Mar-22	28-Mar-22	28-Mar-22	0%	1	\$33,705	Chris Pappas																		
<b>P03.05.06.03.07 HV Receptalces Procurement</b>		13-Dec-21	24-Mar-22	09-Jun-21	24-Mar-22		66	\$100,378																			
P356P1135	Procure boost transformer windings	13-Dec-21	14-Dec-21	09-Jun-21	10-Jun-21	0%	2	\$1,169	Chris Pappas																		
P356P1134	Fabricate boost transformer windings	15-Dec-21	23-Mar-22	11-Jun-21	23-Mar-22	0%	63	\$0	Chris Pappas																		
P356P1137	Fabrication of boost transformer windings complete (MS)		23-Mar-22		23-Mar-22	0%	0	\$0	Chris Pappas																		
P356P1138	Receive boost transformer windings	24-Mar-22	24-Mar-22	24-Mar-22	24-Mar-22	0%	1	\$99,208	Chris Pappas																		
<b>P03.05.06.03.08 Resonant capacitors and Free-Wheeling Diodes Procurement</b>		18-Jun-21	06-May-22	18-Jun-21	06-May-22		218	\$141,854																			
P356P740	Procure resonant capacitors	18-Jun-21	09-Jul-21	18-Jun-21	09-Jul-21	0%	15	\$462	Chris Pappas																		



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Budget																													
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029																
P356P310	Fabrication of filter capacitors complete (MS)		18-Oct-21		18-Oct-21	0%	0	\$0	Chris Pappas																														
P356P320	Receive filter capacitors	19-Oct-21	19-Oct-21	19-Oct-21	19-Oct-21	0%	1	\$11,201	Chris Pappas																														
P356P790	Fabricate modified end plate parts	04-Nov-21	09-Feb-22	04-Nov-21	09-Feb-22	0%	60	\$0	Chris Pappas																														
P356P800	Modification of end plates complete (MS)		09-Feb-22		09-Feb-22	0%	0	\$0	Chris Pappas																														
P356P810	Receive Modified end plates	10-Feb-22	10-Feb-22	10-Feb-22	10-Feb-22	0%	1	\$21,990	Chris Pappas																														
<b>P03.05.06.03.14 Laminated Buses</b>		<b>04-Nov-21</b>	<b>17-Mar-22</b>	<b>04-Nov-21</b>	<b>17-Mar-22</b>		<b>86</b>	<b>\$166,110</b>																															
P356P860	Procure modification switch plate parts	04-Nov-21	24-Nov-21	04-Nov-21	24-Nov-21	0%	15	\$963	Chris Pappas																														
P356P530	Procure laminated busses	11-Nov-21	03-Dec-21	11-Nov-21	03-Dec-21	0%	15	\$481	Chris Pappas																														
P356P1128	Procure alignment fixture and support for lam bus	18-Nov-21	10-Dec-21	18-Nov-21	10-Dec-21	0%	15	\$2,814	Chris Pappas																														
P356P870	Fabricate modified switch plate parts	29-Nov-21	02-Mar-22	29-Nov-21	02-Mar-22	0%	60	\$0	Chris Pappas																														
P356P540	Fabricate laminated busses	06-Dec-21	09-Mar-22	06-Dec-21	09-Mar-22	0%	60	\$0	Chris Pappas																														
P356P1130	Fabrication of alignment fixture and support for lam bus	13-Dec-21	16-Mar-22	13-Dec-21	16-Mar-22	0%	60	\$0	Chris Pappas																														
P356P880	Fabrication of modified switch plate parts complete (MS)		02-Mar-22		02-Mar-22	0%	0	\$0	Chris Pappas																														
P356P890	Receive modified switch plate parts	03-Mar-22	03-Mar-22	03-Mar-22	03-Mar-22	0%	1	\$76,767	Chris Pappas																														
P356P560	Receive laminated busses	10-Mar-22	10-Mar-22	10-Mar-22	10-Mar-22	0%	1	\$36,954	Chris Pappas																														
P356P550	Fabrication of laminated busses complete (MS)	10-Mar-22	10-Mar-22	10-Mar-22	10-Mar-22	0%	0	\$0	Chris Pappas																														
P356P1129	Receive alignment fixture and support for lam bus	17-Mar-22	17-Mar-22	17-Mar-22	17-Mar-22	0%	1	\$48,131	Chris Pappas																														
<b>P03.05.06.03.15 Power Supply Procurement RFQ Only</b>		<b>13-Dec-21</b>	<b>17-Feb-22</b>	<b>13-Dec-21</b>	<b>17-Feb-22</b>		<b>41</b>	<b>\$47,085</b>																															
P356P1101	Procure cables and fuses RFQ only	13-Dec-21	04-Jan-22	13-Dec-21	04-Jan-22	0%	10	\$1,761	Chris Pappas																														
P356P1102	Fabricate cables and fuses	05-Jan-22	16-Feb-22	05-Jan-22	16-Feb-22	0%	30	\$0	Chris Pappas																														
P356P1103	Fabrication of cables and fuses complete (MS)	17-Feb-22	17-Feb-22	17-Feb-22	17-Feb-22	0%	0	\$0	Chris Pappas																														
P356P1104	Receive cables and fuses	17-Feb-22	17-Feb-22	17-Feb-22	17-Feb-22	0%	1	\$45,324	Chris Pappas																														
<b>P03.05.06.03.16 HV Tank Assembly</b>		<b>05-Jan-22</b>	<b>29-Apr-22</b>	<b>05-Jan-22</b>	<b>29-Apr-22</b>		<b>81</b>	<b>\$29,938</b>																															
P356P1106	Procure primary bus feeds	05-Jan-22	26-Jan-22	05-Jan-22	26-Jan-22	0%	15	\$2,814	Chris Pappas																														
P356P1107	Fabricate primary bus feeds	27-Jan-22	06-Apr-22	27-Jan-22	06-Apr-22	0%	50	\$0	Chris Pappas																														
P356P1110	Procure oil distribution manifold assembly	27-Jan-22	16-Feb-22	27-Jan-22	16-Feb-22	0%	15	\$2,814	Chris Pappas																														
P356P1111	Fabricate oil distribution manifold assembly	17-Feb-22	28-Apr-22	17-Feb-22	28-Apr-22	0%	50	\$0	Chris Pappas																														
P356P1114	Procure misc. in-tank hardware incl. additional grate	17-Feb-22	02-Mar-22	17-Feb-22	02-Mar-22	0%	10	\$3,612	Chris Pappas																														
P356P1115	Fabricate misc. in-tank hardware incl. additional grate	03-Mar-22	28-Apr-22	03-Mar-22	28-Apr-22	0%	40	\$0	Chris Pappas																														
P356P1108	Fabrication of primary bus feeds complete (MS)		06-Apr-22		06-Apr-22	0%	0	\$0	Chris Pappas																														
P356P1109	Receive primary bus feeds	07-Apr-22	07-Apr-22	07-Apr-22	07-Apr-22	0%	1	\$14,589	Chris Pappas																														
P356P1112	Fabrication of oil distribution manifold assembly complete (MS)	29-Apr-22	29-Apr-22	29-Apr-22	29-Apr-22	0%	0	\$0	Chris Pappas																														
P356P1113	Receive oil distribution manifold assembly	29-Apr-22	29-Apr-22	29-Apr-22	29-Apr-22	0%	1	\$3,672	Chris Pappas																														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P356P1116	Fabrication of misc. in-tank hardware incl. additional gate complete (MS)	29-Apr-22	29-Apr-22	29-Apr-22	29-Apr-22	0%	0	\$0	Chris Pappas															
P356P1117	Receive misc. in-tank hardware incl. additional gate	29-Apr-22	29-Apr-22	29-Apr-22	29-Apr-22	0%	1	\$2,436	Chris Pappas															
<b>P03.05.06.04 Installation - Upgrade RFQ/DTL Modulators</b>		<b>18-Mar-22</b>	<b>19-Jul-23</b>	<b>18-Mar-22</b>	<b>19-Jul-23</b>		<b>331</b>	<b>\$499,186</b>																
<b>P03.05.06.04.00 Subassembly assembly activities</b>		<b>18-Mar-22</b>	<b>14-Jun-23</b>	<b>18-Mar-22</b>	<b>14-Jun-23</b>		<b>308</b>	<b>\$64,907</b>																
P356i1121	Assemble rectifier assemblies (9X)	18-Mar-22	12-Apr-22	18-Mar-22	12-Apr-22	0%	18	\$13,300	Chris Pappas															
P356i1120	Assembly resonant capacitor assemblies (9X)	09-May-22	02-Jun-22	09-May-22	02-Jun-22	0%	18	\$27,517	Chris Pappas															
P356i940	Modify switch plates with lam bus stubs, caps, IGBTs for RFQ-Mod1	08-Mar-23	10-Mar-23	08-Mar-23	10-Mar-23	0%	3	\$8,030	Chris Pappas															
P356i950	Modify switch plates with lam bus stubs, caps, IGBTs for DTL-Mod3	25-Apr-23	27-Apr-23	25-Apr-23	27-Apr-23	0%	3	\$8,030	Chris Pappas															
P356i960	Modify switch plates with lam bus stubs, caps, IGBTs for DTL-Mod5	12-Jun-23	14-Jun-23	12-Jun-23	14-Jun-23	0%	3	\$8,030	Chris Pappas															
<b>P03.05.06.04.01 Linac Installation</b>		<b>01-Feb-23</b>	<b>21-Jun-23</b>	<b>01-Feb-23</b>	<b>21-Jun-23</b>		<b>99</b>	<b>\$242,329</b>																
P356i010	Installation of in-tank RFQ-Mod1 upgrades incl. rebuild XFMRs	01-Feb-23	21-Feb-23	01-Feb-23	21-Feb-23	0%	15	\$32,349	Chris Pappas															
P356i070	Upgrade RFQ-Mod1 Power Supply	22-Feb-23	07-Mar-23	22-Feb-23	07-Mar-23	0%	10	\$11,569	Chris Pappas															
P356i1142	Install RFQ-Mod1 laminated bus, storage caps, and support/alignment equipment	22-Feb-23	07-Mar-23	22-Feb-23	07-Mar-23	0%	10	\$27,442	Chris Pappas															
P356i1145	Install switch plates and finalize installation RFQ-Mod1	13-Mar-23	17-Mar-23	13-Mar-23	17-Mar-23	0%	5	\$11,364	Chris Pappas															
P356i70	Installation of in-tank DTL-Mod3 upgrades incl. rebuild XFMRs	20-Mar-23	10-Apr-23	20-Mar-23	10-Apr-23	0%	15	\$40,997	Chris Pappas															
P356i1143	Install DTL-Mod3 laminated bus, storage caps, and support/alignment equipment	11-Apr-23	24-Apr-23	11-Apr-23	24-Apr-23	0%	10	\$27,442	Chris Pappas															
P356i1146	Install switch plates and finalize installation DTL-Mod3	28-Apr-23	04-May-23	28-Apr-23	04-May-23	0%	5	\$11,364	Chris Pappas															
P356i80	Installation of in-tank DTL-Mod5 upgrades incl. rebuild XFMRs	05-May-23	25-May-23	05-May-23	25-May-23	0%	15	\$40,997	Chris Pappas															
P356i1144	Install DTL-Mod5 laminated bus, storage caps, and support/alignment equipment	26-May-23	09-Jun-23	26-May-23	09-Jun-23	0%	10	\$27,442	Chris Pappas															
P356i1147	Install switch plates and finalize installation DTL-Mod5	15-Jun-23	21-Jun-23	15-Jun-23	21-Jun-23	0%	5	\$11,364	Chris Pappas															
<b>P03.05.06.04.02 Integration Inspection Initial Testing</b>		<b>20-Mar-23</b>	<b>19-Jul-23</b>	<b>20-Mar-23</b>	<b>19-Jul-23</b>		<b>84</b>	<b>\$68,668</b>																
P356i730	Initial testing of RFQ-Mod1 control system	20-Mar-23	21-Mar-23	20-Mar-23	21-Mar-23	0%	2	\$5,982	Chris Pappas															
P356i040	Inspection of RFQ-Mod1 Upgrades	20-Mar-23	24-Mar-23	20-Mar-23	24-Mar-23	0%	5	\$8,484	Chris Pappas															
P356i030	Initial system tests of RFQ-Mod1 upgrades	27-Mar-23	29-Mar-23	27-Mar-23	29-Mar-23	0%	3	\$5,820	Chris Pappas															
P356i1162	RFQ-Mod1 ready for operation (MS)		13-Apr-23		13-Apr-23	0%	0	\$0	Chris Pappas															
P356i1174	RFQ-Mod1 Upgrade System Documentation Complete (MS)		13-Apr-23		13-Apr-23	0%	0	\$0	Chris Pappas															
P356i90	Inspection of DTL-Mod3 upgrades	05-May-23	11-May-23	05-May-23	11-May-23	0%	5	\$8,484	Chris Pappas															
P356i1153	Initial testing of DTL-Mod3 control system	05-May-23	11-May-23	05-May-23	11-May-23	0%	5	\$9,887	Chris Pappas															
P356i110	Initial system tests of DTL-Mod3 upgrades	12-May-23	16-May-23	12-May-23	16-May-23	0%	3	\$5,820	Chris Pappas															
P356i1163	DTL-Mod3 ready for operation (MS)		31-May-23		31-May-23	0%	0	\$0	Chris Pappas															
P356i1184	DTL-Mod3 Upgrade System Documentation Complete (MS)		31-May-23		31-May-23	0%	0	\$0	Chris Pappas															
P356i100	Inspection of DTL-Mod5 upgrades	22-Jun-23	28-Jun-23	22-Jun-23	28-Jun-23	0%	5	\$8,484	Chris Pappas															
P356i1154	Initial testing of DTL-Mod5 control system	22-Jun-23	28-Jun-23	22-Jun-23	28-Jun-23	0%	5	\$9,887	Chris Pappas															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029		
P356i120	Initial system tests of DTL-Mod5 upgrades	29-Jun-23	05-Jul-23	29-Jun-23	05-Jul-23	0%	3	\$5,820	Chris Pappas																
P356i1164	DTL-Mod5 ready for operation (MS)		19-Jul-23		19-Jul-23	0%	0	\$0	Chris Pappas																
P356i1194	DTL-Mod5 Upgrade System Documentation Complete (MS)		19-Jul-23		19-Jul-23	0%	0	\$0	Chris Pappas																
<b>P03.05.06.04.03 Testing</b>		30-Mar-23	19-Jul-23	30-Mar-23	19-Jul-23		76	\$123,282																	
<b>P03.05.06.04.03.01 System Testing</b>		30-Mar-23	19-Jul-23	30-Mar-23	19-Jul-23		76	\$123,282																	
P356i050	Full power testing of RFQ-Mod1 upgrades	30-Mar-23	13-Apr-23	30-Mar-23	13-Apr-23	0%	10	\$26,087	Chris Pappas																
P356i130	Full power testing of DTL-Mod3	17-May-23	31-May-23	17-May-23	31-May-23	0%	10	\$48,598	Chris Pappas																
P356i140	Full power testing of DTL-Mod5	06-Jul-23	19-Jul-23	06-Jul-23	19-Jul-23	0%	10	\$48,598	Chris Pappas																
<b>P03.06 New Linac Modulators</b>		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$3,859,023																	
P36MS001	Contract for 3 new modulators awarded (MS)		07-Apr-20 A		07-Apr-20	100%	0	\$0	David E. Anderson																
P36MS006	Installation and successful functional testing of first SCL HVCM system complete		01-Jul-22		01-Jul-22	0%	0	\$0	David E. Anderson																
<b>P03.06.01 Management and System Integration - New Linac Modulators</b>		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$156,260																	
<b>P03.06.01.01 Management and System Integration - New Linac Modulators - (NEP36110)</b>		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$156,260																	
P361M1	WBS Management P.3.6 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	David E. Anderson																
P361M69	CAM management P.3.6.5 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	David E. Anderson																
P361M4	WBS Management P.3.6 FY18 (Oct through May)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson																
P361M34	P.3.6.2 Integration Effort FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson																
P361M41	P.3.6.3 Integration Effort FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson																
P361M55	P.3.6.4 Integration Effort FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson																
P361M70	CAM management P.3.6.5 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson																
P361M82	P.3.6.6 Integration Effort FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson																
P361M6	WBS Management P.3.6 FY18 (May through Sep) (Anderson)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson																
P361M35	P.3.6.2 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson																
P361M42	P.3.6.3 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson																
P361M56	P.3.6.4 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson																
P361M71	CAM management P.3.6.5 FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson																
P361M83	P.3.6.6 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson																
P361M102	P.3.6.7 Integration Effort FY18 (Aug - Sep) (Solley)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	David E. Anderson																
P361M11	WBS Management P.3.6 FY19 Anderson) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson																
P361M37	P.3.6.2 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson																
P361M44	P.3.6.3 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson																
P361M58	P.3.6.4 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson																
P361M73	CAM management P.3.6.5 FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson																

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P361M85	P.3.6.6 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P361M11B	WBS Management P.3.6 FY19 Anderson) (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	David E. Anderson															
P361M11C	WBS Management P.3.6 FY19 Anderson) (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	David E. Anderson															
P361M16	WBS Management P.3.6 FY20 (Anderson) (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	David E. Anderson															
P361M16a	WBS Management P.3.6 FY20 (Anderson) (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	David E. Anderson															
P361M21	WBS Management P.3.6 FY21 (Anderson) (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	David E. Anderson															
P361M21a	WBS Management P.3.6 FY21 (Anderson) (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$22,498	David E. Anderson															
P361M21b	WBS Management P.3.6 FY21 (Anderson) (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$31,062	David E. Anderson															
P361M26	WBS Management P.3.6 FY22 (Anderson) (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$55,703	David E. Anderson															
P361M003	P.3.5 and P.3.6 Organize and Verify Documentation for Phase 1 ARR	13-Sep-22	10-Oct-22	13-Sep-22	10-Oct-22	0%	20	\$13,530	David E. Anderson															
P361M31	WBS Management P.3.6 FY23 (Anderson) (LOE)	03-Oct-22	20-Dec-22	03-Oct-22	20-Dec-22	0%	55	\$5,099	David E. Anderson															
P361M002	P.3.5 and P.3.6 Organize and Verify Documentation for Phase 2 ARR	20-Jul-23	16-Aug-23	20-Jul-23	16-Aug-23	0%	20	\$13,906	David E. Anderson															
P361M001	P.3.5 and P.3.6 Organize and Verify Documentation for Phase 3 ARR	17-Apr-24	14-May-24	17-Apr-24	14-May-24	0%	20	\$14,464	David E. Anderson															
<b>P03.06.02 Transformer</b>		<b>23-May-19 A</b>	<b>15-Dec-21</b>	<b>23-May-19</b>	<b>15-Dec-21</b>		<b>138</b>	<b>\$1,280,195</b>																
<b>P03.06.02.02 Design - Transformer - (NEP36220)</b>		<b>23-May-19 A</b>	<b>30-May-19 A</b>	<b>23-May-19</b>	<b>30-May-19</b>		<b>0</b>	<b>\$0</b>																
P362D26	Review and modify current specification for transformer	23-May-19 A	30-May-19 A	23-May-19	30-May-19	100%	0	\$0	David E. Anderson															
<b>P03.06.02.03 Procure/Fab - Transformer and SCR (NEP36231)</b>		<b>02-Nov-20 A</b>	<b>15-Dec-21</b>	<b>02-Nov-20</b>	<b>15-Dec-21</b>		<b>138</b>	<b>\$1,266,477</b>																
P362P68	Prep for and hold Procurement Readiness Review for Two 2 1350kVA Transformers and two SCR Systems	02-Nov-20 A	04-Nov-20 A	02-Nov-20	13-Nov-20	100%	0	\$4,972	David E. Anderson															
P362P71	Process Sole Source Procurement of Two 1350kVA Transformers	16-Nov-20 A	18-Dec-20 A	16-Nov-20	12-Jan-21	100%	0	\$6,647	David E. Anderson															
P362P90	Award of Remaining Transformers and SCRs Complete (MS)		18-Dec-20 A		18-Dec-20	100%	0	\$0	David E. Anderson															
P362P80	Drawing Submittal and Approval Transformers and SCRs to MS 1	04-Jan-21 A	29-Jan-21 A	04-Jan-21	25-Feb-21	100%	0	\$0	David E. Anderson															
P362P63	MS 1 Satisfactory completion and TPO approval of Drawings	29-Jan-21 A	29-Jan-21 A	25-Feb-21	25-Feb-21	100%	0	\$308,756	David E. Anderson															
P362P70	Fabricate Transformers and SCRs to MS 2	01-Feb-21 A	09-Jul-21	26-Feb-21	03-Aug-21	75%	28	\$0	David E. Anderson															
P362P100	MS 2 Satisfactory completion of Factory Acceptance Test and ship 1st article to AOPT.	09-Jul-21	09-Jul-21	03-Aug-21	03-Aug-21	0%	1	\$359,317	David E. Anderson															
P362P104	Shipment and Delivery Transformers and SCRs to Receive	12-Jul-21	23-Jul-21	04-Aug-21	17-Aug-21	0%	10	\$0	David E. Anderson															
P362P530	Shipment Period, 1st Unit to AOPT (NIB)	12-Jul-21	23-Jul-21			0%	10	\$0	David E. Anderson															
P362P120	Receive Two Remaining Transformers and SCRs (MS)		23-Jul-21		17-Aug-21	0%	0	\$0	David E. Anderson															
P362P114	Fabricate Transformers and SCRs to MS 3	26-Jul-21	27-Aug-21	18-Aug-21	15-Sep-21	0%	25	\$0	David E. Anderson															
P362P110	MS 3 Acceptance of all componenta and documentation	30-Aug-21	30-Aug-21	16-Sep-21	16-Sep-21	0%	1	\$359,319	David E. Anderson															
<b>P03.06.02.03.01 Additional SCR</b>		<b>17-May-21 A</b>	<b>15-Dec-21</b>	<b>01-Jun-21</b>	<b>15-Dec-21</b>		<b>138</b>	<b>\$227,466</b>																
<b>P03.06.02.03.01.01 SCR Unit</b>		<b>17-May-21 A</b>	<b>15-Dec-21</b>	<b>01-Jun-21</b>	<b>15-Dec-21</b>		<b>138</b>	<b>\$222,255</b>																
P362P300	Procure SCR Unit	17-May-21 A	27-May-21 A	01-Jun-21	14-Jun-21	100%	0	\$1,226	David E. Anderson															
P362P310	Fabricate SCR Unit	28-May-21 A	03-Dec-21	15-Jun-21	03-Dec-21	0%	130	\$0	David E. Anderson															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P362P320	Factory acceptance test witness (travel)	06-Dec-21	07-Dec-21	06-Dec-21	07-Dec-21	0%	2	\$6,265	David E. Anderson															
P362P330	Ship SCR Unit to Oak Ridge	08-Dec-21	10-Dec-21	08-Dec-21	10-Dec-21	0%	3	\$3,210	David E. Anderson															
P362P340	Receive SCR Unit	13-Dec-21	13-Dec-21	13-Dec-21	13-Dec-21	0%	1	\$207,989	David E. Anderson															
P362P350	In-house inspection and test	14-Dec-21	15-Dec-21	14-Dec-21	15-Dec-21	0%	2	\$3,565	David E. Anderson															
<b>P03.06.02.03.01.02 GFE</b>		01-Jun-21	25-Aug-21	15-Jun-21	25-Aug-21		61	\$5,212																
P362P400	Procure hard fire gate cards	01-Jun-21*	16-Jun-21	15-Jun-21	16-Jun-21	0%	12	\$1,134	David E. Anderson															
P362P430	Procure Fast over current PCB	17-Jun-21	17-Jun-21	17-Jun-21	17-Jun-21	0%	1	\$229	David E. Anderson															
P362P410	Fabricate hard fire gate cards	17-Jun-21	29-Jul-21	17-Jun-21	29-Jul-21	0%	30	\$0	David E. Anderson															
P362P460	Procure Fiber optic transmitter card	18-Jun-21	21-Jun-21	18-Jun-21	21-Jun-21	0%	2	\$621	David E. Anderson															
P362P440	Fabricate fast over current PCB	18-Jun-21	09-Jul-21	18-Jun-21	09-Jul-21	0%	15	\$0	David E. Anderson															
P362P490	Procure water manifold	22-Jun-21	06-Jul-21	22-Jun-21	06-Jul-21	0%	10	\$949	David E. Anderson															
P362P470	Fabricate fiber optic transmitter card	22-Jun-21	03-Aug-21	22-Jun-21	03-Aug-21	0%	30	\$0	David E. Anderson															
P362P500	Fabricate water manifold	07-Jul-21	17-Aug-21	07-Jul-21	17-Aug-21	0%	30	\$0	David E. Anderson															
P362P450	Receive fast over current PCB	12-Jul-21	12-Jul-21	12-Jul-21	12-Jul-21	0%	1	\$104	David E. Anderson															
P362P420	Receive hard fire gate cards	30-Jul-21	30-Jul-21	30-Jul-21	30-Jul-21	0%	1	\$624	David E. Anderson															
P362P480	Receive fiber optic transmitter card	04-Aug-21	04-Aug-21	04-Aug-21	04-Aug-21	0%	1	\$312	David E. Anderson															
P362P510	Receive water manifold	18-Aug-21	18-Aug-21	18-Aug-21	18-Aug-21	0%	1	\$780	David E. Anderson															
P362P520	Ship GFE to Dynapower to complete manufacturing	19-Aug-21	25-Aug-21	19-Aug-21	25-Aug-21	0%	5	\$459	David E. Anderson															
<b>P03.06.02.04 Installation - Transformer</b>		26-Jul-21	01-Dec-21	18-Aug-21	03-Dec-21		90	\$13,719																
<b>P03.06.02.04.01 Phase 1 Installation</b>		26-Jul-21	30-Jul-21	18-Aug-21	24-Aug-21		5	\$4,529																
P362I66	Relocate and site transformer SCL-MOD-30	26-Jul-21	28-Jul-21	18-Aug-21	20-Aug-21	0%	3	\$4,529	David E. Anderson															
P362MS76	Transformer Ready for Integrated Testing SCL-MOD-30 (MS)		30-Jul-21		24-Aug-21	0%	0	\$0	David E. Anderson															
<b>P03.06.02.04.02 Phase 2 Installation</b>		26-Jul-21	30-Jul-21	18-Aug-21	24-Aug-21		5	\$4,529																
P362I67	Relocate and site transformer SCL-MOD-28	26-Jul-21	28-Jul-21	18-Aug-21	20-Aug-21	0%	3	\$4,529	David E. Anderson															
P362MS77	Transformer Ready for Integrated Testing SCL-MOD-28 (MS)		30-Jul-21		24-Aug-21	0%	0	\$0	David E. Anderson															
<b>P03.06.02.04.03 Phase 3 Installation</b>		23-Nov-21	01-Dec-21	29-Nov-21	03-Dec-21		5	\$4,661																
P362I68	Relocate and site transformer SCL-MOD-25	23-Nov-21	29-Nov-21	29-Nov-21	01-Dec-21	0%	3	\$4,661	David E. Anderson															
P362MS78	Transformer Ready for Integrated Testing SCL-MOD-25 (MS)		01-Dec-21		03-Dec-21	0%	0	\$0	David E. Anderson															
<b>P03.06.03 SCR System</b>		01-Apr-19 A	06-Oct-22	01-Apr-19	06-Oct-22		278	\$80,023																
<b>P03.06.03.02 Design - SCR System - (NEP36320)</b>		01-Apr-19 A	13-Feb-20 A	01-Apr-19	13-Feb-20		0	\$0																
P363D91	Generate utilities interface document for standard SCR system.	01-Apr-19 A	12-Apr-19 A	01-Apr-19	12-Apr-19	100%	0	\$0	David E. Anderson															
P363D364	Fab ORNL Supplied SCR PCBs	03-Feb-20 A	13-Feb-20 A	03-Feb-20	13-Feb-20	100%	0	\$0	David E. Anderson															
<b>P03.06.03.03 Procure/Fab- SCR System ( (NEP36331)</b>		16-Nov-20 A	18-Dec-20 A	16-Nov-20	12-Jan-21		0	\$15,762																

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P363P56	Process Sole Source Procurement of Two Standard SCR Systems	16-Nov-20 A	18-Dec-20 A	16-Nov-20	12-Jan-21	100%	0	\$15,762	David E. Anderson															
P03.06.03.04 Installation - SCR System		24-Aug-21	06-Oct-22	25-Aug-21	06-Oct-22		278	\$64,261																
P03.06.03.04.01 Phase 1 Installation		24-Aug-21	24-Feb-22	25-Aug-21	10-Jan-22		122	\$22,685																
P363I261	Install switch gear operator & E-stop and wire for SCL-MOD-30	24-Aug-21	26-Aug-21	25-Aug-21	27-Aug-21	0%	3	\$9,999	David E. Anderson															
P363I271	Check plumbing for water leaks for SCL-MOD-30 SCR	14-Feb-22	14-Feb-22	15-Dec-21	15-Dec-21	0%	1	\$232	David E. Anderson															
P363MS281	SCR Ready for Integrated Testing SCL-MOD-30 (MS)		18-Feb-22		05-Jan-22	0%	0	\$0	David E. Anderson															
P363I276	Energize SCR units to verify control functions for SCL-MOD-30	22-Feb-22	24-Feb-22	06-Jan-22	10-Jan-22	0%	3	\$12,453	David E. Anderson															
P03.06.03.04.02 Phase 2 Installation		03-Jan-22	22-Jul-22	03-Jan-22	22-Jul-22		141	\$20,597																
P363I201	Install switch gear operator & E-stop and wire for SCL-MOD-28	03-Jan-22	05-Jan-22	03-Jan-22	05-Jan-22	0%	3	\$10,280	David E. Anderson															
P363I211	Check plumbing for water leaks for SCL-MOD-28 SCR	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	0%	1	\$232	David E. Anderson															
P363MS282	SCR Ready for Integrated Testing SCL-MOD-28 (MS)		19-Jul-22		19-Jul-22	0%	0	\$0	David E. Anderson															
P363I216	Energize SCR units to verify control functions for SCL-MOD-28	20-Jul-22	22-Jul-22	20-Jul-22	22-Jul-22	0%	3	\$10,084	David E. Anderson															
P03.06.03.04.03 Phase 3 Installation		09-Mar-22	06-Oct-22	26-Jan-22	06-Oct-22		148	\$20,979																
P363I141	Install switch gear operator & E-stop and wire for SCL-MOD-25	09-Mar-22	11-Mar-22	26-Jan-22	28-Jan-22	0%	3	\$10,280	David E. Anderson															
P363I151	Check plumbing for water leaks for SCL-MOD-25 SCR	16-Mar-22	16-Mar-22	02-Feb-22	02-Feb-22	0%	1	\$232	David E. Anderson															
P363MS283	SCR Ready for Integrated Testing SCL-MOD-25 (MS)		21-Sep-22		21-Sep-22	0%	0	\$0	David E. Anderson															
P363I156	Energize SCR units to verify control functions for SCL-MOD-25	04-Oct-22	06-Oct-22	04-Oct-22	06-Oct-22	0%	3	\$10,467	David E. Anderson															
P03.06.04 Modulator System		01-Oct-18 A	04-Oct-22	01-Oct-18	04-Oct-22		335	\$1,499,280																
P03.06.04.02 Design - Modulator System - (NEP36420)		01-Oct-18 A	10-Mar-21 A	01-Oct-18	08-Feb-21		0	\$43,090																
P364D24	Update AT-HVCM prototype drawings to production quality drawings	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P364D24B	Update AT-HVCM prototype drawings to production quality drawings - Continued	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	David E. Anderson															
P364D26	Update drawings of unique AT-HVCM components to reflect recent as-builts.	01-May-19 A	30-Aug-19 A	01-May-19	30-Aug-19	100%	0	\$0	David E. Anderson															
OPS012	AT-HVCM Test Article Testing Complete (MS)		20-May-19 A		20-May-19	100%	0	\$0	David E. Anderson															
P364D26b	Update drawings of unique AT-HVCM components to reflect recent as-builts. - Continued	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	David E. Anderson															
P364D406	Update AT-HVCM System Model for Oil Cooling Systems	01-Nov-19 A	27-Nov-19 A	01-Nov-19	27-Nov-19	100%	0	\$0	David E. Anderson															
P364D408	Update AT-HVCM model with Renner pump design	23-Mar-20 A	31-Mar-20 A	23-Mar-20	31-Mar-20	100%	0	\$0	David E. Anderson															
P364D418	Review cable database and update drawings to reflect changes	01-Apr-20 A	29-Apr-20 A	01-Apr-20	29-Apr-20	100%	0	\$0	David E. Anderson															
P364D408a	Update AT-HVCM model with Renner pump design (Apr20>)	01-Apr-20 A	17-Apr-20 A	01-Apr-20	17-Apr-20	100%	0	\$0	David E. Anderson															
P364D428	Investigate transformer band heating issue and solution	04-Nov-20 A	15-Dec-20 A	04-Nov-20	07-Dec-20	100%	0	\$10,359	David E. Anderson															
P364D438	Modify transformer drawings	04-Jan-21 A	20-Jan-21 A	08-Dec-20	14-Dec-20	100%	0	\$2,595	David E. Anderson															
P364D448	Modify transformer drawings Due 3 months prior to Main Tank Assembly (MS)		20-Jan-21 A		14-Dec-20	100%	0	\$0	David E. Anderson															
P364D111	Incorporate upgraded cooling system design into AT-HVCM Creo model. Create updated assembly drawings	27-Jan-21 A	10-Mar-21 A	11-Jan-21	08-Feb-21	100%	0	\$30,137	David E. Anderson															
P03.06.04.03 Procure/Fab - Modulator System ((NEP36431))		02-Nov-20 A	11-Feb-22	02-Nov-20	13-Jan-22		172	\$1,128,419																



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>P03.06.04.03.01 AT-HVCM Spare</b>		01-Dec-20 A	11-Feb-22	13-Jan-21	13-Jan-22		172	\$803,992															
P364P56	Process Procurement and Award (Exercise Option) Fabrication of the Spare AT-HVCM build to print modulator	01-Dec-20 A	04-Dec-20 A	13-Jan-21	10-Feb-21	100%	0	\$3,013	David E. Anderson														
P364P366	Award (Exercise Option) of Spare AT-HVCM build to print modulator Complete (MS)		04-Dec-20 A		10-Feb-21	100%	0	\$0	David E. Anderson														
P364P742	MS1 - Delivery of detailed fabrication schedule	01-Mar-21 A	01-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	\$73,868	David E. Anderson														
P364P57	AT-HVCM Spare Parts Fabrication Period 1	02-Mar-21 A	06-Aug-21	02-Mar-21	06-Aug-21	10%	48	\$0	David E. Anderson														
P364P748	MS4 - IGBT board assemblies including full peak power testing on single phase test stand and documentation	09-Aug-21	09-Aug-21	09-Aug-21	09-Aug-21	0%	1	\$88,642	David E. Anderson														
P364P59	AT-HVCM Spare Parts Fabrication Period 2	10-Aug-21	20-Aug-21	10-Aug-21	20-Aug-21	0%	9	\$0	David E. Anderson														
P364P744	MS2 - Receipt of 50% of purchased and/or fabricated	23-Aug-21	23-Aug-21	23-Aug-21	23-Aug-21	0%	1	\$221,606	David E. Anderson														
P364P746	MS3 - Successful completion of energy storage cap racks assembly, water panel, oil tank asseblies	23-Aug-21	23-Aug-21	23-Aug-21	23-Aug-21	0%	1	\$59,096	David E. Anderson														
P364P61	AT-HVCM Spare Parts Fabrication Period 3	24-Aug-21	03-Nov-21	24-Aug-21	03-Nov-21	0%	51	\$0	David E. Anderson														
P364P750	MS5 - Successful completion of tank basket assembly including FAT	04-Nov-21	04-Nov-21	04-Nov-21	04-Nov-21	0%	1	\$147,737	David E. Anderson														
P364P291	Fabrication of spare AT-HVCM Optional Parts Complete (MS)		04-Nov-21		04-Nov-21	0%	0	\$0	David E. Anderson														
P364P63	AT-HVCM Spare Parts Fabrication Period 4	05-Nov-21	03-Dec-21	05-Nov-21	03-Dec-21	0%	19	\$0	David E. Anderson														
P364P790	MS6 - Receipt and acceptance of spare assemblies at ORNL	06-Dec-21	13-Dec-21	06-Dec-21	13-Dec-21	0%	6	\$147,737	David E. Anderson														
<b>P03.06.04.03.01.01 Spare AT-HVCM rectifier assemblies</b>		12-Aug-21	19-Nov-21	15-Jul-21	22-Oct-21		71	\$34,726															
P364P1110	Procure Spare PCBs for Rectifier Assemblies (3 sets)	12-Aug-21	09-Sep-21	15-Jul-21	11-Aug-21	0%	20	\$462	David E. Anderson														
P364P1120	Fabricate Spare PCBs for Rectifier Assemblies (3 sets)	10-Sep-21	18-Nov-21	12-Aug-21	21-Oct-21	0%	50	\$0	David E. Anderson														
P364P1130	Receive Spare PCBs for Rectifier Assemblies (3 sets)	19-Nov-21	19-Nov-21	22-Oct-21	22-Oct-21	0%	1	\$34,265	David E. Anderson														
<b>P03.06.04.03.01.02 Spare AT-HVCM resonant capacitor assemblies</b>		10-Sep-21	11-Feb-22	12-Aug-21	13-Jan-22		101	\$27,566															
P364P1140	Procure Spare Freewheeling Diode PCBs for Resonant Capacitor Assemblies (3 sets)	10-Sep-21	07-Oct-21	12-Aug-21	09-Sep-21	0%	20	\$467	David E. Anderson														
P364P1170	Procure Spare Resonant capacitors	10-Sep-21	07-Oct-21	12-Aug-21	09-Sep-21	0%	20	\$467	David E. Anderson														
P364P1150	Fabricate Spare Freewheeling Diode PCBs for Resonant Capacitor Assemblies (3 sets)	08-Oct-21	20-Dec-21	10-Sep-21	18-Nov-21	0%	50	\$0	David E. Anderson														
P364P1180	Fabricate Spare Resonant capacitors	08-Oct-21	10-Feb-22	10-Sep-21	12-Jan-22	0%	80	\$0	David E. Anderson														
P364P1160	Receive Spare Freewheeling Diode PCBs for Resonant Capacitor Assemblies (3 sets)	21-Dec-21	21-Dec-21	19-Nov-21	19-Nov-21	0%	1	\$7,977	David E. Anderson														
P364P1190	Receive Spare Resonant capacitors	11-Feb-22	11-Feb-22	13-Jan-22	13-Jan-22	0%	1	\$18,656	David E. Anderson														
<b>P03.06.04.03.03 Modulator Oil</b>		04-Aug-21	04-Aug-21	04-Aug-21	04-Aug-21		1	\$80,084															
P364P131	Receive oil for modulator SCL-MOD-28 and 25	04-Aug-21	04-Aug-21	04-Aug-21	04-Aug-21	0%	1	\$53,046	David E. Anderson														
P364P810	Receive oil for modulator spare	04-Aug-21	04-Aug-21	04-Aug-21	04-Aug-21	0%	1	\$27,038	David E. Anderson														
<b>P03.06.04.03.04 CO2 System</b>		01-Apr-21 A	07-Sep-21	01-Apr-21	27-Jul-21		69	\$45,740															
P364P31	Procure CO2 systems	01-Apr-21 A	10-Jun-21	01-Apr-21	29-Apr-21	95%	8	\$4,746	David E. Anderson														
P364P35	Fabricate CO2 systems	11-Jun-21	03-Sep-21	30-Apr-21	26-Jul-21	0%	60	\$0	David E. Anderson														
P364P690	Receive CO2 systems	07-Sep-21	07-Sep-21	27-Jul-21	27-Jul-21	0%	1	\$40,994	David E. Anderson														
<b>P03.06.04.03.05 Oil Cooling System</b>		02-Nov-20 A	22-Nov-21	02-Nov-20	24-Nov-21		123	\$128,131															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P364P1234	Receive control PCB	21-Jul-21	22-Jul-21	21-Jul-21	22-Jul-21	0%	2	\$3,401	David E. Anderson																						
P364P1224	Receive fabricated hardware	28-Jul-21	29-Jul-21	28-Jul-21	29-Jul-21	0%	2	\$14,586	David E. Anderson																						
P364P1270	Assemble Control Panels (3X)	03-Aug-21	10-Aug-21	03-Aug-21	10-Aug-21	0%	6	\$5,443	David E. Anderson																						
P364P1280	Assemble remaining (3X)	11-Aug-21	13-Aug-21	11-Aug-21	13-Aug-21	0%	3	\$2,721	David E. Anderson																						
<b>P03.06.04.04 Installation - Modulator System</b>		<b>16-Sep-21</b>	<b>04-Oct-22</b>	<b>18-Aug-21</b>	<b>04-Oct-22</b>		<b>260</b>	<b>\$327,771</b>																							
<b>P03.06.04.04.01 Phase 1 Installation</b>		<b>16-Sep-21</b>	<b>22-Feb-22</b>	<b>18-Aug-21</b>	<b>05-Jan-22</b>		<b>104</b>	<b>\$125,795</b>																							
P364I201	Install AT-HVCM Safety enclosure, interface wiring and ground plane for SCL-MOD-30	16-Sep-21	23-Sep-21	18-Aug-21	25-Aug-21	0%	6	\$30,326	David E. Anderson																						
P364I211	Install CO2 System SCL-MOD-30	24-Sep-21	27-Sep-21	26-Aug-21	27-Aug-21	0%	2	\$5,462	David E. Anderson																						
P364I222	Install Laminate Bus Alignment System and Supports SCL-MOD-30 (included in Mod build to print order)	24-Sep-21	30-Sep-21	26-Aug-21	01-Sep-21	0%	5	\$20,743	David E. Anderson																						
P364I231	Install capacitor racks (anchor, ground, term cables, etc) for SCL-MOD-30	01-Oct-21	04-Oct-21	02-Sep-21	03-Sep-21	0%	2	\$5,383	David E. Anderson																						
P364I241	Install laminate buswork for SCL-MOD-30	05-Oct-21	07-Oct-21	07-Sep-21	09-Sep-21	0%	3	\$8,075	David E. Anderson																						
P364I242	Install cooling system on tank baskets SCL-Mod30	08-Oct-21	14-Oct-21	10-Sep-21	16-Sep-21	0%	5	\$9,294	David E. Anderson																						
P364I243	Wire cooling system, route in-tank cables SCL-Mod30	15-Oct-21	21-Oct-21	17-Sep-21	23-Sep-21	0%	5	\$12,149	David E. Anderson																						
P364P1330	Test cooling system and electronics SCL-Mod30	22-Oct-21	25-Oct-21	24-Sep-21	27-Sep-21	0%	2	\$2,822	David E. Anderson																						
P364I216	Install AT-HVCM tank, water panel, interlocks, switchplates, and plumbing for SCL-MOD-30	26-Oct-21	08-Nov-21	28-Sep-21	11-Oct-21	0%	10	\$26,119	David E. Anderson																						
P364I226	Check plumbing for water leaks for SCL-MOD-30 HVCM	14-Feb-22	14-Feb-22	15-Dec-21	15-Dec-21	0%	1	\$232	David E. Anderson																						
P364I221	Connect all remaining power/controller/fiber cable for SCL-MOD-30	15-Feb-22	21-Feb-22	16-Dec-21	22-Dec-21	0%	5	\$5,190	David E. Anderson																						
P364MS221	Modulator Ready for Integrated Testing SCL-MOD-30 (MS)		22-Feb-22		05-Jan-22	0%	0	\$0	David E. Anderson																						
<b>P03.06.04.04.02 Phase 2 Installation</b>		<b>23-Feb-22</b>	<b>19-Jul-22</b>	<b>06-Jan-22</b>	<b>19-Jul-22</b>		<b>102</b>	<b>\$102,283</b>																							
P364I141	Install AT-HVCM Safety enclosure, interface wiring and ground plane for SCL-MOD-28	23-Feb-22	02-Mar-22	06-Jan-22	13-Jan-22	0%	6	\$27,672	David E. Anderson																						
P364I214	Install CO2 System SCL-MOD-28	03-Mar-22	04-Mar-22	14-Jan-22	18-Jan-22	0%	2	\$4,568	David E. Anderson																						
P364I224	Install Laminate Bus Alignment System and Supports SCL-MOD-28 (included in Mod build to print order)	03-Mar-22	08-Mar-22	14-Jan-22	20-Jan-22	0%	4	\$14,610	David E. Anderson																						
P364I171	Install capacitor racks (anchor, ground, term cables, etc) for SCL-MOD-28	09-Mar-22	10-Mar-22	21-Jan-22	24-Jan-22	0%	2	\$4,669	David E. Anderson																						
P364I181	Install laminate buswork for SCL-MOD-28	11-Mar-22	15-Mar-22	25-Jan-22	27-Jan-22	0%	3	\$7,004	David E. Anderson																						
P364I182	Install cooling system on tank baskets SCL-Mod28	16-Mar-22	22-Mar-22	28-Jan-22	03-Feb-22	0%	5	\$9,294	David E. Anderson																						
P364I183	Wire cooling system, route in-tank cables SCL-Mod28	23-Mar-22	29-Mar-22	04-Feb-22	10-Feb-22	0%	5	\$12,149	David E. Anderson																						
P364P1333	Test cooling system and electronics SCL-Mod28	30-Mar-22	31-Mar-22	11-Feb-22	14-Feb-22	0%	2	\$2,822	David E. Anderson																						
P364I151	Install AT-HVCM tank, water panel, interlocks, switchplates, and plumbing for SCL-MOD-28	01-Apr-22	14-Apr-22	15-Feb-22	28-Feb-22	0%	10	\$15,500	David E. Anderson																						
P364I166	Check plumbing for water leaks for SCL-MOD-28 HVCM	02-May-22	02-May-22	15-Mar-22	15-Mar-22	0%	1	\$232	David E. Anderson																						
P364I161	Connect all remaining power/controller/fiber cable for SCL-MOD-28	03-May-22	09-May-22	16-Mar-22	22-Mar-22	0%	5	\$3,763	David E. Anderson																						
P364MS223	Modulator Ready for Integrated Testing SCL-MOD-28 (MS)		19-Jul-22		19-Jul-22	0%	0	\$0	David E. Anderson																						
<b>P03.06.04.04.03 Phase 3 Installation</b>		<b>20-Jul-22</b>	<b>04-Oct-22</b>	<b>20-Jul-22</b>	<b>04-Oct-22</b>		<b>54</b>	<b>\$99,694</b>																							
P364I76	Install AT-HVCM Safety enclosure, interface wiring and ground plane for SCL-MOD-25	20-Jul-22	27-Jul-22	20-Jul-22	27-Jul-22	0%	6	\$27,672	David E. Anderson																						

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P364I217	Install CO2 System SCL-MOD-25	28-Jul-22	29-Jul-22	28-Jul-22	29-Jul-22	0%	2	\$4,568	David E. Anderson														
P364I227	Install Laminate Bus Alignment System and Supports SCL-MOD-25 (included in Mod build to print order)	28-Jul-22	02-Aug-22	28-Jul-22	02-Aug-22	0%	4	\$11,997	David E. Anderson														
P364I111	Install capacitor racks (anchor, ground, term cables, etc) for SCL-MOD-25	03-Aug-22	04-Aug-22	03-Aug-22	04-Aug-22	0%	2	\$4,669	David E. Anderson														
P364I121	Install laminate buswork for SCL-MOD-25	05-Aug-22	09-Aug-22	05-Aug-22	09-Aug-22	0%	3	\$7,004	David E. Anderson														
P364I122	Install cooling system on tank baskets SCL-Mod25	10-Aug-22	16-Aug-22	10-Aug-22	16-Aug-22	0%	5	\$9,294	David E. Anderson														
P364I123	Wire cooling system, route in-tank cables SCL-Mod25	17-Aug-22	23-Aug-22	17-Aug-22	23-Aug-22	0%	5	\$12,149	David E. Anderson														
P364P1336	Test cooling system and electronics SCL-Mod25	24-Aug-22	25-Aug-22	24-Aug-22	25-Aug-22	0%	2	\$2,822	David E. Anderson														
P364I86	Install AT-HVCM tank, water panel, interlocks, switchplates, and plumbing for SCL-MOD-25	26-Aug-22	09-Sep-22	26-Aug-22	09-Sep-22	0%	10	\$15,500	David E. Anderson														
P364I106	Check plumbing for water leaks for SCL-MOD-25 HVCM	26-Sep-22	26-Sep-22	26-Sep-22	26-Sep-22	0%	1	\$232	David E. Anderson														
P364I96	Connect all remaining power/controller/fiber cable for SCL-MOD-25	27-Sep-22	03-Oct-22	27-Sep-22	03-Oct-22	0%	5	\$3,786	David E. Anderson														
P364MS225	Modulator Ready for Integrated Testing SCL-MOD-25 (MS)		04-Oct-22		04-Oct-22	0%	0	\$0	David E. Anderson														
<b>P03.06.05 Modulator Control System</b>		03-Jun-19 A	11-Oct-22	03-Jun-19	11-Oct-22		340	\$636,494															
<b>P03.06.05.02 Design - Modulator Control System - (NEP36520)</b>		03-Jun-19 A	18-Dec-20 A	03-Jun-19	08-Jan-21		0	\$11,595															
P365D36	Review current BOM and drawings, correct as necessary	03-Jun-19 A	30-Aug-19 A	03-Jun-19	30-Aug-19	100%	0	\$0	David E. Anderson														
P365D56	Learn KiCAD	19-Jul-19 A	30-Aug-19 A	19-Jul-19	30-Aug-19	100%	0	\$0	David E. Anderson														
P365D36b	Review current BOM and drawings, correct as necessary - Continued	03-Sep-19 A	31-Mar-20 A	03-Sep-19	31-Mar-20	100%	0	\$0	David E. Anderson														
P365D56b	Learn KiCAD - Continued	03-Sep-19 A	20-Sep-19 A	03-Sep-19	20-Sep-19	100%	0	\$0	David E. Anderson														
P365D76	Design and Prototype New Aux I/O Module	17-Sep-19 A	31-Mar-20 A	17-Sep-19	31-Mar-20	100%	0	\$0	David E. Anderson														
P365I146	Provide HVCM Control Rack Specs (like RFAX-Mod1) to Barnett	01-Oct-19 A	02-Oct-19 A	01-Oct-19	02-Oct-19	100%	0	\$0	David E. Anderson														
P365D66	Design and Prototype new digital module	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	David E. Anderson														
P365D36c	Review current BOM and drawings, correct as necessary (Apr20>)	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	David E. Anderson														
P365D66a	Design and Prototype new digital module (Apr20>)	01-Apr-20 A	20-Apr-20 A	01-Apr-20	20-Apr-20	100%	0	\$0	David E. Anderson														
P365D76a	Design and Prototype New Aux I/O Module (Apr20>)	21-Apr-20 A	11-Jun-20 A	21-Apr-20	11-Jun-20	100%	0	\$0	David E. Anderson														
P365D86	Modify Program	12-Jun-20 A	30-Oct-20 A	12-Jun-20	30-Oct-20	100%	0	\$0	David E. Anderson														
P365D46	DCN for 3 modulator installations	30-Nov-20 A	18-Dec-20 A	30-Nov-20	08-Jan-21	100%	0	\$11,595	David E. Anderson														
<b>P03.06.05.03 Procure/Fab - Modulator Control System - (NEP36530)</b>		11-Nov-20 A	29-Jun-21	11-Nov-20	17-May-21		21	\$464,934															
P365P410	Prep for Procurement Readiness Review (PRR) for Modulator Controls	11-Nov-20 A	24-Nov-20 A	11-Nov-20	24-Nov-20	100%	0	\$7,761	David E. Anderson														
P365P420	Procurement Readiness Review for Modulator Controls	25-Nov-20 A	25-Nov-20 A	25-Nov-20	25-Nov-20	100%	0	\$995	David E. Anderson														
<b>P03.06.05.03.01 PPIC and Power Distribution chassis</b>		05-Jan-21 A	21-Jun-21	11-Feb-21	17-May-21		15	\$41,611															
P365P320	Procure PPIC and Power Distribution chassis	05-Jan-21 A	18-Feb-21 A	11-Feb-21	18-Feb-21	100%	0	\$9,027	David E. Anderson														
P365P330	Fabricate PPIC and Power Distribution chassis	01-Mar-21 A	18-Jun-21	19-Feb-21	14-May-21	80%	14	\$0	David E. Anderson														
P365P340	Fabrication of PPIC and Power Distribution chassis Complete (MS)		18-Jun-21		14-May-21	0%	0	\$0	David E. Anderson														
P365P332	Receive PPIC and Power Distribution chassis	21-Jun-21	21-Jun-21	17-May-21	17-May-21	0%	1	\$32,584	David E. Anderson														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>P03.06.05.03.02 Fabricate PS and Aux I/O chassis</b>		19-Jan-21 A	17-May-21 A	19-Jan-21	23-Apr-21		0	\$25,490															
P365P357	Procure PS and Aux I/O chassis	19-Jan-21 A	27-Jan-21 A	19-Jan-21	27-Jan-21	100%	0	\$8,365	David E. Anderson														
P365P360	Fabricate PS and Aux I/O chassis	27-Jan-21 A	14-May-21 A	27-Jan-21	22-Apr-21	100%	0	\$0	David E. Anderson														
P365P363	Fabrication of PS and Aux I/O chassis Complete (MS)		14-May-21 A		22-Apr-21	100%	0	\$0	David E. Anderson														
P365P362	Receive PS and Aux I/O chassis	17-May-21 A	17-May-21 A	22-Apr-21	23-Apr-21	100%	0	\$17,125	David E. Anderson														
<b>P03.06.05.03.03 Fabricate Digital and Analog Modules</b>		19-Jan-21 A	10-Jun-21	27-Jan-21	09-Apr-21		8	\$29,053															
P365P371	Procure Digital Module Hardware and PCB	19-Jan-21 A	03-Feb-21 A	27-Jan-21	03-Feb-21	100%	0	\$5,628	David E. Anderson														
P365P375	Procure Analog Module Hardware and PCB	01-Feb-21 A	05-Feb-21 A	03-Feb-21	10-Feb-21	100%	0	\$5,780	David E. Anderson														
P365P372	Fabricate Digital Module Hardware and PCB	04-Feb-21 A	25-Feb-21 A	03-Feb-21	31-Mar-21	100%	0	\$0	David E. Anderson														
P365P376	Fabricate Analog Module Hardware and PCB	05-Feb-21 A	17-Feb-21 A	10-Feb-21	08-Apr-21	100%	0	\$0	David E. Anderson														
P365P377	Receive Analog Module Hardware and PCB	18-Feb-21 A	10-Jun-21	08-Apr-21	09-Apr-21	50%	8	\$8,822	David E. Anderson														
P365P373	Receive Digital Module Hardware and PCB	26-Feb-21 A	26-Feb-21 A	31-Mar-21	01-Apr-21	100%	0	\$8,822	David E. Anderson														
<b>P03.06.05.03.04 PXI Hardware</b>		11-Jan-21 A	29-Jan-21 A	11-Jan-21	03-Mar-21		0	\$262,447															
P365P300	Procure PXI hardware	11-Jan-21 A	15-Jan-21 A	11-Jan-21	15-Jan-21	100%	0	\$1,974	David E. Anderson														
P365P302	Fabricate PXI hardware	15-Jan-21 A	28-Jan-21 A	19-Jan-21	02-Mar-21	100%	0	\$0	David E. Anderson														
P365P303	Fabricate PXI hardware Complete (MS)		28-Jan-21 A		02-Mar-21	100%	0	\$0	David E. Anderson														
P365P304	Receive PXI hardware	29-Jan-21 A	29-Jan-21 A	03-Mar-21	03-Mar-21	100%	0	\$260,473	David E. Anderson														
<b>P03.06.05.03.05 Other</b>		04-Jan-21 A	29-Jun-21	10-Feb-21	22-Mar-21		21	\$97,579															
P365P370	Procure and Receive rack-mount components	04-Jan-21 A	20-Jan-21 A	19-Feb-21	08-Mar-21	100%	0	\$63,061	David E. Anderson														
P365P310	Procure and Receive mice, SSD and memory kits	27-Jan-21 A	25-Feb-21 A	10-Feb-21	25-Feb-21	100%	0	\$3,995	David E. Anderson														
P365P380	Procure and Receive cables	01-Feb-21 A	10-Jun-21	23-Feb-21	12-Mar-21	75%	8	\$9,642	David E. Anderson														
P365P400	Procure and Receive Controller PS	15-Feb-21 A	21-May-21 A	04-Mar-21	22-Mar-21	100%	0	\$15,412	David E. Anderson														
P365P390	Procure and Receive misc. interface boxes and cabling	11-Jun-21	29-Jun-21	01-Mar-21	17-Mar-21	0%	13	\$5,469	David E. Anderson														
<b>P03.06.05.04 Installation - Modulator Control System (NEP36540)</b>		18-Feb-21 A	11-Oct-22	08-Mar-21	11-Oct-22		340	\$159,965															
P365305	Install PXI Modules in PXI Chassis	18-Feb-21 A	22-Feb-21 A	08-Mar-21	10-Mar-21	100%	0	\$7,057	David E. Anderson														
P365465	Assemble Aux I/O Chassis	01-Apr-21 A	15-Apr-21 A	08-Jun-21	21-Jun-21	100%	0	\$14,113	David E. Anderson														
P365335	Install Memory Kits & Cloned SSD's	15-Apr-21 A	23-Apr-21 A	11-Mar-21	17-Mar-21	100%	0	\$11,761	David E. Anderson														
P365485	Test Aux I/O Chassis on Bench	19-Apr-21 A	20-Apr-21 A	24-Jun-21	25-Jun-21	100%	0	\$1,445	David E. Anderson														
P365585	Fabricate & Assemble Mov V Dividers	26-Apr-21 A	29-Apr-21 A	24-Mar-21	29-Mar-21	100%	0	\$9,409	David E. Anderson														
P365315	Flash PXI Chassis and Set SN. Set CPU Name	03-May-21 A	03-Jun-21	30-Mar-21	30-Mar-21	50%	3	\$1,445	David E. Anderson														
P365345	Set PXI Module Names & Test ALI PXI Modules	04-May-21 A	03-Jun-21	31-Mar-21	31-Mar-21	50%	3	\$1,445	David E. Anderson														
P365385	Assemble Analog Connector PCBs	11-Jun-21	18-Jun-21	30-Apr-21	07-May-21	0%	6	\$14,113	David E. Anderson														
P365395	Assemble Analog Modules	18-Jun-21	02-Jul-21	10-May-21	21-May-21	0%	10	\$14,113	David E. Anderson														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P365455	Assemble Power Supply Chassis	02-Jul-21	19-Jul-21	24-May-21	07-Jun-21	0%	10	\$14,113	David E. Anderson														
P365475	Set Voltages & Test Power Supplies on Bench	19-Jul-21	21-Jul-21	22-Jun-21	23-Jun-21	0%	2	\$1,445	David E. Anderson														
P365375	Assemble Digital Modules and SCR Interface Chassis	21-Jul-21	18-Aug-21	01-Apr-21	30-Apr-21	0%	20	\$14,113	David E. Anderson														
P365405	Test Digital Modules with Controller	18-Aug-21	20-Aug-21	24-May-21	25-May-21	0%	2	\$1,445	David E. Anderson														
P365575	Fabricate & Assemble CB V Dividers	18-Aug-21	24-Aug-21	18-Mar-21	23-Mar-21	0%	4	\$9,409	David E. Anderson														
P365415	Test Analog Modules with Controller	20-Aug-21	24-Aug-21	26-May-21	27-May-21	0%	2	\$1,445	David E. Anderson														
P03.06.05.04.01 Phase 1 Installation		08-Sep-21	21-Apr-22	27-Jul-21	21-Apr-22		151	\$14,090															
P365325	Install SCL-MOD-30 Controller Equipment in Rack and Interface	08-Sep-21	15-Sep-21	27-Jul-21	03-Aug-21	0%	6	\$11,085	David E. Anderson														
P365355	Follow Test Procedure for SCL-MOD-30	19-Apr-22	21-Apr-22	19-Apr-22	21-Apr-22	0%	3	\$3,005	David E. Anderson														
P03.06.05.04.02 Phase 2 Installation		10-Dec-21	27-Jul-22	27-Oct-21	27-Jul-22		153	\$14,441															
P365595	Install SCL-MOD-28 Controller Equipment in Rack and Interface	10-Dec-21	17-Dec-21	27-Oct-21	03-Nov-21	0%	6	\$11,437	David E. Anderson														
P365605	Follow Test Procedure for SCL-MOD-28	25-Jul-22	27-Jul-22	25-Jul-22	27-Jul-22	0%	3	\$3,005	David E. Anderson														
P03.06.05.04.03 Phase 3 Installation		23-Mar-22	11-Oct-22	09-Feb-22	11-Oct-22		141	\$14,560															
P365615	Install SCL-MOD-25 Controller Equipment in Rack and Interface	23-Mar-22	30-Mar-22	09-Feb-22	16-Feb-22	0%	6	\$11,437	David E. Anderson														
P365625	Follow Test Procedure for SCL-MOD-25	07-Oct-22	11-Oct-22	07-Oct-22	11-Oct-22	0%	3	\$3,124	David E. Anderson														
P03.06.06 Integrated System		24-Jul-18 A	21-Dec-22	24-Jul-18	21-Dec-22		216	\$206,770															
P03.06.06.02 Design - Integrated System - (NEP36620)		24-Jul-18 A	16-Sep-19 A	24-Jul-18	16-Sep-19		0	\$0															
P366D31	Review Cable diagrams/pull lists and correct/modify - Part 1	24-Jul-18 A	28-Sep-18 A	24-Jul-18	28-Sep-18	100%	0	\$0	David E. Anderson														
P366D31B	Review Cable diagrams/pull lists and correct/modify - Continued from 90%	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	David E. Anderson														
P366D26	Review interface diagrams and correct/modify to represent AT-HVCM topology	01-Feb-19 A	29-Mar-19 A	01-Feb-19	29-Mar-19	100%	0	\$0	David E. Anderson														
P366D41	Review System Block Diagrams and Schematics and correct/modify	01-Apr-19 A	18-Apr-19 A	01-Apr-19	18-Apr-19	100%	0	\$0	David E. Anderson														
P366D46	Prep for AT-HVCM System Final Design Review (FDR)	22-Apr-19 A	20-May-19 A	22-Apr-19	20-May-19	100%	0	\$0	David E. Anderson														
P366D76	AT-HVCM System Final Design Review (FDR) (21-May-19)	21-May-19 A	22-May-19 A	21-May-19	22-May-19	100%	0	\$0	David E. Anderson														
P366MS86	Complete AT-HVCM - Final Design Review Meeting (MS)		22-May-19 A		22-May-19	100%	0	\$0	David E. Anderson														
P366D56	AT-HVCM FDR action item response time	23-May-19 A	23-Aug-19 A	23-May-19	23-Aug-19	100%	0	\$0	David E. Anderson														
P366D61	Review test procedures and update to reflect AT-HVCM configuration	17-Jun-19 A	30-Aug-19 A	17-Jun-19	30-Aug-19	100%	0	\$0	David E. Anderson														
P366D66	Specify test equipment requirements	16-Aug-19 A	22-Aug-19 A	16-Aug-19	22-Aug-19	100%	0	\$0	David E. Anderson														
P366D61b	Review test procedures and update to reflect AT-HVCM configuration - Continued	03-Sep-19 A	16-Sep-19 A	03-Sep-19	16-Sep-19	100%	0	\$0	David E. Anderson														
P03.06.06.03 Procure/Fab - Integrated System - (NEP36630)		24-May-21 A	25-May-21 A	23-Mar-21	05-May-21		0	\$0															
P366P71	Order and receive test equipment	24-May-21 A	24-May-21 A	23-Mar-21	04-May-21	100%	0	\$13,621	David E. Anderson														
P366P71a	Order and receive test equipment - Adjustment Activity	25-May-21 A	25-May-21 A	05-May-21	05-May-21	100%	0	(\$13,621)	David E. Anderson														
P03.06.06.04 Installation - Integrated System		15-Feb-22	21-Dec-22	16-Dec-21	21-Dec-22		216	\$206,770															
P03.06.06.04.01 Phase 1 Installation		15-Feb-22	01-Jul-22	16-Dec-21	01-Jul-22		97	\$75,029															

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1										13-Aug-21 10:09											
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P366186	Fill systems with oil, double check for leaks, gate drive test for SCL-MOD-30	15-Feb-22	16-Feb-22	16-Dec-21	17-Dec-21	0%	2	\$15,750	David E. Anderson														
P366187	Test SCL-Mod30 cooling system and electronics	17-Feb-22	18-Feb-22	20-Dec-21	21-Dec-21	0%	2	\$2,833	David E. Anderson														
P366206	Check CO2 system operation locally for SCL-MOD-30	21-Feb-22	22-Feb-22	22-Dec-21	03-Jan-22	0%	2	\$833	David E. Anderson														
P366196	Install external resistive divider for calibration for SCL-MOD-30	23-Feb-22	23-Feb-22	06-Jan-22	06-Jan-22	0%	1	\$935	David E. Anderson														
P366201	Perform signal generator timing fault, simulated for SCL-MOD-30	22-Apr-22	28-Apr-22	22-Apr-22	28-Apr-22	0%	5	\$11,544	David E. Anderson														
P366216	Perform klystron arc protection verification for SCL-MOD-30	27-May-22	01-Jun-22	27-May-22	01-Jun-22	0%	3	\$6,593	David E. Anderson														
P366211	Perform low duty cycle operation, adj. FPGA, pulse flatten, optimize pulse sequence, calibrate readbacks for SCL-MOD-30	02-Jun-22	15-Jun-22	02-Jun-22	15-Jun-22	0%	10	\$17,899	David E. Anderson														
P366192	Final SCR system checkout under power SCL-MOD-30	16-Jun-22	17-Jun-22	16-Jun-22	17-Jun-22	0%	2	\$4,074	David E. Anderson														
P366226	Operate SCL-MOD-30 modulator at full duty cycle	20-Jun-22	01-Jul-22	20-Jun-22	01-Jul-22	0%	10	\$14,568	David E. Anderson														
P366IMS003	Turn SCL-MOD-30 over for operations (MS)		01-Jul-22		01-Jul-22	0%	0	\$0	David E. Anderson														
<b>P03.06.06.04.02 Phase 2 Installation</b>		03-May-22	05-Oct-22	16-Mar-22	05-Oct-22		109	\$65,006															
P366131	Fill systems with oil, double check for leaks, gate drive test for SCL-MOD-28	03-May-22	04-May-22	16-Mar-22	17-Mar-22	0%	2	\$14,322	David E. Anderson														
P366132	Test SCL-Mod28 cooling system and electronics	05-May-22	06-May-22	18-Mar-22	21-Mar-22	0%	2	\$2,833	David E. Anderson														
P366151	Check CO2 system operation locally for SCL-MOD-28	09-May-22	10-May-22	22-Mar-22	23-Mar-22	0%	2	\$476	David E. Anderson														
P366141	Install external resistive divider for calibration for SCL-MOD-28	20-Jul-22	20-Jul-22	20-Jul-22	20-Jul-22	0%	1	\$935	David E. Anderson														
P366146	Perform signal generator timing fault, simulated for SCL-MOD-28	28-Jul-22	03-Aug-22	28-Jul-22	03-Aug-22	0%	5	\$10,116	David E. Anderson														
P366161	Perform klystron arc protection verification for SCL-MOD-28	01-Sep-22	02-Sep-22	01-Sep-22	02-Sep-22	0%	2	\$5,879	David E. Anderson														
P366156	Perform low duty cycle operation, adj. FPGA, pulse flatten, optimize pulse sequence, calibrate readbacks for SCL-MOD-28	06-Sep-22	19-Sep-22	06-Sep-22	19-Sep-22	0%	10	\$15,995	David E. Anderson														
P366191	Final SCR system checkout under power SCL-MOD-28	20-Sep-22	21-Sep-22	20-Sep-22	21-Sep-22	0%	2	\$3,323	David E. Anderson														
P366171	Operate SCL-MOD-28 modulator at full duty cycle	22-Sep-22	05-Oct-22	22-Sep-22	05-Oct-22	0%	10	\$11,127	David E. Anderson														
P366IMS002	Turn SCL-MOD-28 over for operations (MS)		05-Oct-22		05-Oct-22	0%	0	\$0	David E. Anderson														
<b>P03.06.06.04.03 Phase 3 Installation</b>		27-Sep-22	21-Dec-22	27-Sep-22	21-Dec-22		60	\$66,735															
P366176	Fill systems with oil, double check for leaks, gate drive test for SCL-MOD-25	27-Sep-22	28-Sep-22	27-Sep-22	28-Sep-22	0%	2	\$14,322	David E. Anderson														
P366177	Test SCL-Mod25 cooling system and electronics	29-Sep-22	30-Sep-22	29-Sep-22	30-Sep-22	0%	2	\$2,833	David E. Anderson														
P366196	Check CO2 system operation locally for SCL-MOD-25	03-Oct-22	04-Oct-22	03-Oct-22	04-Oct-22	0%	2	\$494	David E. Anderson														
P366186	Install external resistive divider for calibration for SCL-MOD-25	05-Oct-22	05-Oct-22	05-Oct-22	05-Oct-22	0%	1	\$962	David E. Anderson														
P366191	Perform signal generator timing fault, simulated for SCL-MOD-25	12-Oct-22	18-Oct-22	12-Oct-22	18-Oct-22	0%	5	\$10,515	David E. Anderson														
P366106	Perform klystron arc protection verification for SCL-MOD-25	16-Nov-22	17-Nov-22	16-Nov-22	17-Nov-22	0%	2	\$6,112	David E. Anderson														
P366101	Perform low duty cycle operation, adj. FPGA, pulse flatten, optimize pulse sequence, calibrate readbacks for SCL-MOD-25	18-Nov-22	05-Dec-22	18-Nov-22	05-Dec-22	0%	10	\$16,627	David E. Anderson														
P366126	Final SCR system checkout under power SCL-MOD-25	06-Dec-22	07-Dec-22	06-Dec-22	07-Dec-22	0%	2	\$3,442	David E. Anderson														
P366116	Operate SCL-MOD-25 modulator at full duty cycle	08-Dec-22	21-Dec-22	08-Dec-22	21-Dec-22	0%	10	\$11,428	David E. Anderson														
P366IMS001	Turn SCL-MOD-25 over for operations (MS)		21-Dec-22		21-Dec-22	0%	0	\$0	David E. Anderson														
<b>P03.06.07 Modulator TestArticle &amp; Testing</b>		17-Apr-18 A	30-Aug-19 A	17-Apr-18	30-Aug-19		0	\$0															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P.03.06.07.02 Design - Modulator Test Article & Testing - (NEP36720)		17-Apr-18 A	30-Aug-19 A	17-Apr-18	30-Aug-19		0	\$0															
P367D150	Receive new bus assembly hardware. (MS)		17-Apr-18 A		17-Apr-18	100%	0	\$0	David E. Anderson														
P367D160	Complete freewheeling diode assemblies (MS)		20-Apr-18 A		20-Apr-18	100%	0	\$0	David E. Anderson														
P367D155	Receive new rectifier assembly hardware.	01-May-18 A	14-May-18 A	01-May-18	14-May-18	100%	0	\$0	David E. Anderson														
P367D175	Create BOM for oil cooling system.	01-May-18 A	25-Jun-18 A	01-May-18	25-Jun-18	100%	0	\$0	David E. Anderson														
P367D195	Create detailed test plan.	01-May-18 A	29-Jun-18 A	01-May-18	29-Jun-18	100%	0	\$0	David E. Anderson														
P367D200	Complete Design of the laminate bus alignment system	01-May-18 A	21-Sep-18 A	01-May-18	21-Sep-18	100%	0	\$0	David E. Anderson														
P367D205	Designer Available to work on AT-HVCM	02-May-18 A	02-May-18 A	02-May-18	02-May-18	100%	0	\$0	David E. Anderson														
P367D210	Design effort for flexible stub Eriflex option 1	02-May-18 A	27-Jul-18 A	02-May-18	27-Jul-18	100%	0	\$0	David E. Anderson														
P367D215	Design effort for flexible stub Cu sheet option 2	09-May-18 A	27-Jul-18 A	09-May-18	27-Jul-18	100%	0	\$0	David E. Anderson														
P367D165	Build and test sub-assemblies.	15-May-18 A	19-Jun-18 A	15-May-18	19-Jun-18	100%	0	\$0	David E. Anderson														
P367D185	Receive remaining parts for oil cooling system. (MS)		31-May-18 A		31-May-18	100%	0	\$0	David E. Anderson														
P367D170	Pull tank from HEBT.	15-Jun-18 A	19-Jun-18 A	15-Jun-18	19-Jun-18	100%	0	\$0	David E. Anderson														
P367MS335	Complete build and test of new AT-HVCM sub assemblies (MS)		19-Jun-18 A		19-Jun-18	100%	0	\$0	David E. Anderson														
P367D190	Reconfigure 3rd generation AT-HVCM tank.	20-Jun-18 A	09-Jul-18 A	20-Jun-18	09-Jul-18	100%	0	\$0	David E. Anderson														
P367D280	Return updated tank to HEBT.	10-Jul-18 A	12-Jul-18 A	10-Jul-18	12-Jul-18	100%	0	\$0	David E. Anderson														
P367D285	Test modulator to 60kV.	13-Jul-18 A	17-Jul-18 A	13-Jul-18	17-Jul-18	100%	0	\$0	David E. Anderson														
P367MS002	Solley Returns from his 7/2 to - 7/17 vacation	17-Jul-18 A	17-Jul-18 A	17-Jul-18	17-Jul-18	100%	0	\$0	David E. Anderson														
P367D290	Spark gap testing at 80kV to verify fault energy.	18-Jul-18 A	19-Jul-18 A	18-Jul-18	19-Jul-18	100%	0	\$0	David E. Anderson														
P367D295	Test modulator per phase 1 test plan.	20-Jul-18 A	28-Sep-18 A	20-Jul-18	28-Sep-18	100%	0	\$0	David E. Anderson														
P367D220	Quote & Fabricate stub option 1	30-Jul-18 A	13-Sep-18 A	30-Jul-18	13-Sep-18	100%	0	\$0	David E. Anderson														
P367D225	Quote & Fabricate stub option 2	30-Jul-18 A	13-Sep-18 A	30-Jul-18	13-Sep-18	100%	0	\$0	David E. Anderson														
P367D265	Order and Receive capacitor bank plates. - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	David E. Anderson														
P367D245	Check Design Capacitor Bank Plates.	10-Aug-18 A	28-Aug-18 A	10-Aug-18	28-Aug-18	100%	0	\$0	David E. Anderson														
P367D250	Mini review laminate bus alignment system/capacitor bus plates/ flexible bus stub.	14-Aug-18 A	14-Sep-18 A	14-Aug-18	14-Sep-18	100%	0	\$0	David E. Anderson														
P367MS295	Complete Phase 1 Testing of New Modulator (MS)		28-Sep-18 A		28-Sep-18	100%	0	\$0	David E. Anderson														
P367D255	Incorporate mini review design changes	01-Oct-18 A	09-Oct-18 A	01-Oct-18	09-Oct-18	100%	0	\$0	David E. Anderson														
P367D265B	Order and Receive capacitor bank plates. - Continued from 5%	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	David E. Anderson														
P367D235	Evaluate options 1 and 2 (hi pot, flex, ripple, temp)	10-Oct-18 A	06-Nov-18 A	10-Oct-18	06-Nov-18	100%	0	\$0	David E. Anderson														
P367D260	Order and Receive laminate bus alignment system.	10-Oct-18 A	13-Nov-18 A	10-Oct-18	13-Nov-18	100%	0	\$0	David E. Anderson														
P367D305	Run modulator at full power for > 30 days. Collect data specified in phase 2 test plan.	30-Nov-18 A	21-Jan-19 A	30-Nov-18	21-Jan-19	100%	0	\$0	David E. Anderson														
P367D237	Procure and Receive Material For Option 3	02-Jan-19 A	25-Feb-19 A	02-Jan-19	25-Feb-19	100%	0	\$0	David E. Anderson														
P367MS305	Complete Phase 2 Testing of New Modulator (MS)		21-Jan-19 A		21-Jan-19	100%	0	\$0	David E. Anderson														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29																						
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F													
P367D300	Install laminated bus alignment system/bus stub/cap bank plates.	28-Jan-19 A	07-Mar-19 A	28-Jan-19	07-Mar-19	100%	0	\$0	David E. Anderson																																				
P367D310	Analyze ATHVCM results and compare with HVCM. 50%	08-Feb-19 A	29-Mar-19 A	08-Feb-19	29-Mar-19	100%	0	\$0	David E. Anderson																																				
P367D315	Design, order additional test article components, and test to address any issues	15-Feb-19 A	29-Mar-19 A	15-Feb-19	29-Mar-19	100%	0	\$0	David E. Anderson																																				
P367D230	Integrate options 1, 2 and 3 on test stand	01-Mar-19 A	04-Mar-19 A	01-Mar-19	04-Mar-19	100%	0	\$0	David E. Anderson																																				
P367MS240	Select option 1, 2 or 3 or down select to rigid stub (MS)		04-Mar-19 A		04-Mar-19	100%	0	\$0	David E. Anderson																																				
P367D310B	Analyze ATHVCM results and compare with HVCM. - Continued	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	David E. Anderson																																				
P367D315B	Design, order additional test article components, and test to address any issues - Continued	01-Apr-19 A	31-May-19 A	01-Apr-19	31-May-19	100%	0	\$0	David E. Anderson																																				
P367D330	Run second test	22-Apr-19 A	30-Aug-19 A	22-Apr-19	30-Aug-19	100%	0	\$0	David E. Anderson																																				
P367D199	Create alignment system assembly drawings	01-May-19 A	07-Jun-19 A	01-May-19	07-Jun-19	100%	0	\$0	David E. Anderson																																				
P367D320	Conduct selection review, comparing old and new topologies.	14-May-19 A	20-May-19 A	14-May-19	20-May-19	100%	0	\$0	David E. Anderson																																				
P367MS325	Select New or Old Topology Option (MS)		20-May-19 A		20-May-19	100%	0	\$0	David E. Anderson																																				
<b>P03.07 Utilities</b>		03-Oct-16 A	17-May-24	03-Oct-16	17-May-24		733	\$6,079,482																																					
<b>P03.07.01 Management and System Integration - Utilities</b>		03-Oct-16 A	16-May-24	03-Oct-16	16-May-24		732	\$1,104,496																																					
<b>P03.07.01.01 Management and System Integration - Utilities - (NEP37110)</b>		03-Oct-16 A	16-May-24	03-Oct-16	16-May-24		732	\$1,104,496																																					
P371M1	WBS Management P.3.7 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Greg Noman																																				
P371M335	P.3.7.7 CAM management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Greg Noman																																				
P371M340	P.3.7.7 CAM management FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Greg Noman																																				
P371M4	WBS Management P.3.7 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Greg Noman																																				
P371M6	WBS Management P.3.7 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Greg Noman																																				
P371M345	P.3.7.7 CAM management FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Greg Noman																																				
P371M11	WBS Management P.3.7 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Greg Noman																																				
P371M350	P.3.7.7 CAM management FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Greg Noman																																				
P371M350B	P.3.7.7 CAM management FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Noman																																				
P371M11B	WBS Management P.3.7 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Noman																																				
P371M11C	WBS Management P.3.7 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Greg Noman																																				
P371M350C	P.3.7.7 CAM management FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Greg Noman																																				
P371M16	WBS Management P.3.7 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Noman																																				
P371M355	P.3.7.7 CAM management FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Noman																																				
P371M355a	P.3.7.7 CAM management FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Noman																																				
P371M16a	WBS Management P.3.7 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Noman																																				
P371M16b	WBS Management P.3.7 FY20 (LOE) (May20 - Sep20) (Smith)	01-May-20 A	30-Sep-20 A	01-May-20	30-Sep-20	100%	0	\$0	Greg Noman																																				
P371M21	WBS Management P.3.7 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Greg Noman																																				
P371M360	P.3.7.7 CAM management FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Greg Noman																																				

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																												
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P371M21a	WBS Management P.3.7 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$96,595	Greg Noman																													
P371M360a	P.3.7.7 CAM management FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$148,147	Greg Noman																													
P371M363	P.3.7.7 Electrical Installation Coordinator (LOE) (Feb21-Sep21) FY21)	01-Feb-21 A	30-Sep-21	01-Feb-21	30-Sep-21	49.41%	86	\$217,308	Greg Noman																													
P371M26	WBS Management P.3.7 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$108,772	Greg Noman																													
P371M367	P.3.7.7 Electrical Installation Coordinator (LOE) (Oct21-May22) (FY22)	01-Oct-21	31-May-22	01-Oct-21	31-May-22	0%	161	\$219,604	Greg Noman																													
P371M365	P.3.7.7 Electrical Installation Support (LOE) (Jun22-Sep22) (FY22)	01-Jun-22	30-Sep-22	01-Jun-22	30-Sep-22	0%	86	\$32,043	Greg Noman																													
P371M003	P.3.7 Organize and Verify Documentation for Phase 1 ARR	13-Sep-22	10-Oct-22	13-Sep-22	10-Oct-22	0%	20	\$8,843	Greg Noman																													
P371M370	P.3.7.7 Electrical Installation Support (LOE) (FY23)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$104,064	Greg Noman																													
P371M31	WBS Management P.3.7 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$57,915	Greg Noman																													
P371M002	P.3.7 Organize and Verify Documentation for Phase 2 ARR	16-Mar-23	13-Apr-23	16-Mar-23	13-Apr-23	0%	20	\$9,080	Greg Noman																													
P371M35	WBS Management P.3.7 FY24 (LOE)	02-Oct-23	16-May-24	02-Oct-23	16-May-24	0%	154	\$43,669	Greg Noman																													
P371M380	P.3.7.7 Electrical Installation Support (LOE) (FY24)	02-Oct-23	16-May-24	02-Oct-23	16-May-24	0%	154	\$49,025	Greg Noman																													
P371M001	P.3.7 Organize and Verify Documentation for Phase 3 ARR	17-Apr-24	14-May-24	17-Apr-24	14-May-24	0%	20	\$9,430	Greg Noman																													
P.03.07.02 Water Utilities - New Cold Linac SCL RF Cooling System (KL-06)		02-Oct-17 A	12-Oct-22	02-Oct-17	12-Oct-22		341	\$912,222																														
P372MS001	Complete preliminary design for cooling and electrical systems (MS)		12-Apr-18 A		12-Apr-18	100%	0	\$0	Greg Noman																													
P372MS006	Complete final design of cooling and electrical systems (Predecessor is AE Design of the Klystron Gallery Upgrades) (MS)		29-Mar-19 A		29-Mar-19	100%	0	\$0	Greg Noman																													
P.03.07.02.02 Design - Water Utilities - New Cold Linac SCL RF Cooling System (KL-06) - (NEP37220)		02-Oct-17 A	31-Mar-22	02-Oct-17	31-Mar-22		206	\$135,249																														
P372D21	Criteria Generation for Utilities System Design by AE	02-Oct-17 A	05-Dec-17 A	02-Oct-17	05-Dec-17	100%	0	\$0	Greg Noman																													
P372D1	In-House Design (Prior to Title II Design)	01-Mar-18 A	12-Apr-18 A	01-Mar-18	12-Apr-18	100%	0	\$0	Greg Noman																													
P372D11	Estimating and Schedule Support	01-Mar-18 A	12-Apr-18 A	01-Mar-18	12-Apr-18	100%	0	\$0	Greg Noman																													
P372D16	Management Support of Title 1 Design Effort	01-Mar-18 A	12-Apr-18 A	01-Mar-18	12-Apr-18	100%	0	\$0	Greg Noman																													
P372D046	Engineering Support for AE Design of RF Cooling Systems (LOE) - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Greg Noman																													
P372D046B	Engineering Support for AE Design of RF Cooling Systems (LOE) - Continued 65%	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Greg Noman																													
P372D036	KL06 Preliminary Design Review (PDR) (with 60% AE Review)	07-Nov-18 A	07-Nov-18 A	07-Nov-18	07-Nov-18	100%	0	\$0	Greg Noman																													
P372MS066	KL06 Preliminary Design Review (PDR) (MS)		07-Nov-18 A		07-Nov-18	100%	0	\$0	Greg Noman																													
P372D046C	Engineering Support for AE Design of RF Cooling Systems (LOE) - Continued Part 3	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	Greg Noman																													
P372D041	KL06 Final Design Review (FDR)	10-May-19 A	10-May-19 A	10-May-19	10-May-19	100%	0	\$0	Greg Noman																													
P372MS076	KL06 Final Design Review (FDR) Complete (MS)		10-May-19 A		10-May-19	100%	0	\$0	Greg Noman																													
P372D001	Eng Support of RF Cooling Klystron Gallery Construction (LOE)	14-Jan-20 A	31-Mar-20 A	14-Jan-20	31-Mar-20	100%	0	\$0	Greg Noman																													
P372D001a	Eng Support of RF Cooling Klystron Gallery Construction (LOE) (Apr20- Oct20)	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Greg Noman																													
P372D001b	Eng Support of RF Cooling Klystron Gallery Construction FY21 (LOE) (Nov20 - Feb20)	02-Nov-20 A	04-Feb-21 A	02-Nov-20	04-Feb-21	100%	0	\$66,149	Greg Noman																													
P372D46	Eng Support of RF Cooling T&M Utilities Installation FY21 (LOE) (Feb21 - Sep21)	05-Feb-21 A	30-Sep-21	05-Feb-21	30-Sep-21	48.19%	86	\$38,877	Greg Noman																													
P372D56	Eng Support of RF Cooling T&M Utilities Installation FY22 (LOE) (Oct21 - Mar22)	01-Oct-21	31-Mar-22	01-Oct-21	31-Mar-22	0%	120	\$30,223	Greg Noman																													



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																							
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029										
P3721850	Modify Unistrut and mount UV Sterilizer	01-Jul-21	15-Jul-21	01-Jul-21	15-Jul-21	0%	10	\$1,186	Greg Noman																								
P3721860	Fabricate and install pipe spools	16-Jul-21	22-Jul-21	16-Jul-21	22-Jul-21	0%	5	\$5,500	Greg Noman																								
P3721870	Install conduit & wiring to PLC cabinet	16-Jul-21	29-Jul-21	16-Jul-21	29-Jul-21	0%	10	\$5,284	Greg Noman																								
P03.07.02.04.05 Install HTW header thermal expansion compensators		03-May-21 A	14-Jun-21	03-May-21	22-Jun-21		10	\$17,781																									
P3721880	Procure and Recieve GFE Materials: Thermal Expansion Compensators	03-May-21 A	28-May-21 A	03-May-21	08-Jun-21	100%	0	\$3,780	Greg Noman																								
P3721890	Modify piping and install compensators	01-Jun-21	14-Jun-21	09-Jun-21	22-Jun-21	0%	10	\$14,001	Greg Noman																								
P03.07.02.04.06 Flush KL-06 DI water system		23-Apr-21 A	13-Jul-21	23-Apr-21	15-Jun-21		30	\$58,393																									
P3721920	Procure and Recieve Materials for Flushing	23-Apr-21 A	24-May-21 A	23-Apr-21	03-May-21	100%	0	\$20,822	Greg Noman																								
P3721930	Flushing, Draining, and Drying Labor and Equipment Rental	25-May-21 A	14-Jun-21	04-May-21	17-May-21	5%	10	\$17,747	Greg Noman																								
P3721950	Paint 8" S&R header in KL06 and HSB	15-Jun-21	28-Jun-21	18-May-21	01-Jun-21	0%	10	\$4,454	Greg Noman																								
P3721960	Labor & Mat'l's for 10" DI Header Sway Brace and 8" cooling water piping Sway Brace	29-Jun-21	13-Jul-21	02-Jun-21	15-Jun-21	0%	10	\$15,370	Greg Noman																								
P03.07.03 Water Utilities - Modify Existing RFQ/DTL RF Cooling System (KL-04)		15-Oct-18 A	12-Apr-23	15-Oct-18	12-Apr-23		460	\$547,197																									
P03.07.03.02 Design - Water Utilities - Modify Existing RFQ/DTL RF Cooling System (KL-04) - (NEP37320)		15-Oct-18 A	11-Nov-21	15-Oct-18	16-Sep-21		60	\$14,020																									
P373D1	Engineering Preliminary design to size equipment upgrades for KL-04 cooling system	15-Oct-18 A	26-Dec-18 A	15-Oct-18	26-Dec-18	100%	0	\$0	Greg Noman																								
P373D11	KL04 Preliminary Design Review (PDR)	02-Jan-19 A	02-Jan-19 A	02-Jan-19	02-Jan-19	100%	0	\$0	Greg Noman																								
P373D31	Engineering Final design to size equipment upgrades for KL-04 cooling system	02-Jan-19 A	29-Mar-19 A	02-Jan-19	29-Mar-19	100%	0	\$0	Greg Noman																								
P373MS003	KL04 Preliminary Design Review (PDR) Complete (MS)		02-Jan-19 A		02-Jan-19	100%	0	\$0	Greg Noman																								
P373D31B	Engineering Final design to size equipment upgrades for KL-04 cooling system - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Noman																								
P373D31C	Engineering Final design to size equipment upgrades for KL-04 cooling system - Continued 2	03-Sep-19 A	23-Sep-19 A	03-Sep-19	23-Sep-19	100%	0	\$0	Greg Noman																								
P373D21	KL04 Final Design Review (FDR)	24-Sep-19 A	24-Sep-19 A	24-Sep-19	24-Sep-19	100%	0	\$0	Greg Noman																								
P373MS005	KL04 Final Design Review (FDR) Complete (MS)		24-Sep-19 A		24-Sep-19	100%	0	\$0	Greg Noman																								
P373D41	Prepare Designs for Procurement	03-Aug-20 A	31-Aug-20 A	03-Aug-20	31-Aug-20	100%	0	\$0	Greg Noman																								
P373D51	Create fab drawings for 3.0 MW klystron piping	19-Aug-21	11-Nov-21	23-Jun-21	16-Sep-21	0%	60	\$14,020	Greg Noman																								
P03.07.03.03 Procure/Fab - Water Utilities - Modify Existing RFQ/DTL RF Cooling System (KL-04) - (NEP373)		29-Mar-21 A	15-Sep-22	29-Mar-21	15-Sep-22		322	\$298,392																									
P373P21	Procure new pumps, motors, and bases for KL-04 (GFE)	29-Mar-21 A	19-Apr-21 A	29-Mar-21	19-Apr-21	100%	0	\$462	Greg Noman																								
P373P76	Procure and Receive new Breaker, MCC, and VFD for KL-04 (GFE)	29-Mar-21 A	25-Jun-21	29-Mar-21	17-May-21	15%	19	\$38,332	Greg Noman																								
P373P98	Procure and Receive new VFD Control Wiring & Hardware for KL-04 (GFE)	29-Mar-21 A	27-Aug-21	29-Mar-21	17-May-21	10%	63	\$2,006	Greg Noman																								
P373P31	Fabricate new pumps, motors, and bases for KL-04 (GFE)	20-Apr-21 A	14-Jul-21	20-Apr-21	14-Jul-21	40%	31	\$0	Greg Noman																								
P373P13	Award SRO for Installation of KL-04 Upgrade	30-Jun-21*	30-Jun-21			0%	0	\$0	Greg Noman																								
P373P16	Procure and Receive Mechanical Materials (Via SRO) for installation of upgrade equipment on KL-04	01-Jul-21	24-Sep-21	01-Jul-21	24-Sep-21	0%	60	\$42,594	Greg Noman																								
P373P46	Procure and Receive Electrical Materials (Conduit & Wiring) (Via SRO) for KL-04	01-Jul-21	24-Sep-21	01-Jul-21	24-Sep-21	0%	60	\$27,231	Greg Noman																								
P373P41	Receive new pumps, motors, and bases for KL-04 (GFE)	15-Jul-21	15-Jul-21	15-Jul-21	15-Jul-21	0%	1	\$120,678	Greg Noman																								
P373P33	Award SRO for Swapping Klystron Piping for DTL-3, DTL-4, and DTL-5	18-Apr-22*	18-Apr-22			0%	0	\$0	Greg Noman																								





Table with columns: Activity ID, Activity Name, Start, Finish, BL Start, BL Finish, % Complete, Rem Dur, Budgeted Total Cost, CAM, FY2016-FY2028. Rows include tasks like 'Elec. Integration Engr Support', 'Procure/Fab - Electrical', 'SCL HPRF and LLRF Electrical Procurement', 'Cryomodule Controls Cabling Procurement', and 'Cables'.

May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 10:09													
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P377P187	Receive Batch 3 RF Cables (Cryo Controls, Vacuum Controls, etc)	31-Mar-21 A	01-Jun-21	01-Jun-21	01-Jun-21	65%	1	\$162,639	Greg Noman															
P377P188	Receive Batch 4 RF Cables (Cryo Controls, Vacuum Controls, etc)	30-Jul-21	30-Jul-21	30-Jul-21	30-Jul-21	0%	1	\$34,320	Greg Noman															
P03.07.07.03.03.01 Linac Cryomodule Controls Cables		02-Nov-20 A	01-Mar-21 A	02-Nov-20	25-Aug-21		0	\$294																
P377P186	Procure Linac Cryomodule Controls Cables (Phase 1) (Does not incl. T-M)	02-Nov-20 A	26-Feb-21 A	02-Nov-20	30-Nov-20	100%	0	\$109	Greg Noman															
P377P187	Procure Linac Cryomodule Controls Cables (Phase 2) (Does not incl. T-M)	01-Feb-21 A	26-Feb-21 A	18-May-21	24-May-21	100%	0	\$92	Greg Noman															
P377P188	Procure Linac Cryomodule Controls Cables (Phase 3) (Does not incl. T-M)	01-Feb-21 A	26-Feb-21 A	19-Aug-21	25-Aug-21	100%	0	\$92	Greg Noman															
P377P186	Fabrication of Linac Cryomodule Controls Cables (Phase 1) (Does not incl. T-M, reduce duration?)	01-Mar-21 A	01-Mar-21 A	01-Dec-20	01-Mar-21	100%	0	\$0	Greg Noman															
P03.07.07.03.03.02 Branch Cables (Pigtails)		02-Nov-20 A	28-Jul-21	02-Nov-20	28-Jul-21		41	\$43,389																
P377P322	Procure Outside Fabrication of Branch cables and Connectors (BLI to CM) (All Phases)	02-Nov-20 A	06-Jan-21 A	02-Nov-20	30-Nov-20	100%	0	\$116	Greg Noman															
P377P324	Fabrication of Branch cables and Connectors (BLI to CM) (All Phases)	07-Jan-21 A	03-May-21 A	01-Dec-20	04-Jan-21	100%	0	\$0	Greg Noman															
P377P326	Receive Pre-Fabricated Branch cables and Connectors (BLI to CM) (All Phases)	03-May-21 A	03-May-21 A	05-Jan-21	05-Jan-21	100%	0	\$12,330	Greg Noman															
P377P326	Receive Pre-Fabricated Branch cables and Connectors (Adjustment Activity PCR RF-2021-16)	03-May-21 A	03-May-21 A	03-May-21	03-May-21	100%	0	(\$12,330)	Greg Noman															
P377P326	Fabrication of Pre-Fabricated Branch cables and Connectors	03-May-21 A	27-Jul-21	03-May-21	27-Jul-21	0%	40	\$0	Greg Noman															
P377P326	Receive Pre-Fabricated Branch cables and Connectors (New PCR RF-2021-16)	28-Jul-21	28-Jul-21	28-Jul-21	28-Jul-21	0%	1	\$43,273	Greg Noman															
P03.07.07.03.04 Insulating Vacuum Cabling Procurement		02-Nov-20 A	09-Sep-21	02-Nov-20	30-Jun-21		71	\$9,286																
P03.07.07.03.04.02 Cables		02-Nov-20 A	01-Mar-21 A	02-Nov-20	01-Mar-21		0	\$109																
P377P401	Procure INS Vacuum Cables for all CMs and Systems (inc. HEDP and 2 Large Roughing pumps) (Does not incl. T-M)	02-Nov-20 A	26-Feb-21 A	02-Nov-20	11-Dec-20	100%	0	\$109	Greg Noman															
P377P404	Fabricate INS Vac Cables for all CMs and Systems (inc. HEDP & Large Roughing pump) (Does not incl. T-M, reduce dur?)	01-Mar-21 A	01-Mar-21 A	14-Dec-20	01-Mar-21	100%	0	\$0	Greg Noman															
P03.07.07.03.04.03 Connectors		02-Nov-20 A	09-Sep-21	14-Dec-20	30-Jun-21		71	\$9,177																
P377P407	Procure INS Vacuum Connectors for all CMs and all Systems	02-Nov-20 A	29-Apr-21 A	14-Dec-20	08-Jan-21	100%	0	\$103	Greg Noman															
P377P407	Fabrication of INS Vacuum Connectors for all CMs and all Systems	30-Apr-21 A	08-Sep-21	11-Jan-21	29-Jun-21	0%	70	\$0	Greg Noman															
P377P408	Receive INS Vacuum Connectors for all CMs and all Systems	09-Sep-21	09-Sep-21	30-Jun-21	30-Jun-21	0%	1	\$9,074	Greg Noman															
P03.07.07.03.05 Beamline Vacuum Cabling Procurement		02-Nov-20 A	09-Sep-21	02-Nov-20	01-Jul-21		71	\$33,115																
P03.07.07.03.05.02 Cables		02-Nov-20 A	01-Mar-21 A	02-Nov-20	01-Mar-21		0	\$109																
P377P5091	Procure SCL Vacuum Cables for all CMs and Systems (inc. HEDP) (Does not incl. T-M)	02-Nov-20 A	26-Feb-21 A	02-Nov-20	11-Dec-20	100%	0	\$109	Greg Noman															
P377P5094	Fabrication of SCL Vacuum Cables for all CMs and Systems (inc. HEDP) (Does not incl. T-M, reduce duration?)	01-Mar-21 A	01-Mar-21 A	14-Dec-20	01-Mar-21	100%	0	\$0	Greg Noman															
P03.07.07.03.05.03 Connectors		02-Nov-20 A	09-Sep-21	14-Dec-20	01-Jul-21		71	\$33,005																
P377P5151	Procure SCL Vacuum Connectors for all CMs and Systems (inc. HEDP)	02-Nov-20 A	29-Apr-21 A	14-Dec-20	08-Jan-21	100%	0	\$103	Greg Noman															
P377P5154	Fabrication SCL Vacuum Connectors for all CMs and Systems (inc. HEDP)	30-Apr-21 A	08-Sep-21	11-Jan-21	30-Jun-21	0%	70	\$0	Greg Noman															
P377P516	Receive SCL Vacuum Connectors for all CMs and Systems (inc. HEDP)	09-Sep-21	09-Sep-21	01-Jul-21	01-Jul-21	0%	1	\$32,902	Greg Noman															
P03.07.07.03.08 Global Controls Cabling Procurement		02-Nov-20 A	06-Apr-21 A	07-Dec-20	12-May-21		0	\$30,019																
P03.07.07.03.08.01 Racks		02-Nov-20 A	06-Apr-21 A	07-Dec-20	12-May-21		0	\$30,019																
P377P1001	Procure 3 communication racks	02-Nov-20 A	30-Nov-20 A	07-Dec-20	18-Dec-20	100%	0	\$116	Greg Noman															





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016 - FY2028																											
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>P03.07.07.04.02.01 Phase 1 Installation</b>		28-May-21 A	28-Mar-22	01-Apr-21	11-Feb-22		203	\$276,925																													
P377i200	Install waveguide and loads for klystrons 30C through 32D (Phase 1)	28-May-21 A	26-Aug-21	01-Apr-21	30-Jun-21	0%	62	\$109,202	Greg Noman																												
P377i202	Install LLRF, WG coupler, and XMTR Cabling (Inc. int. and ext.) for klystrons 30C through 32D (Phase 1)	29-Jun-21	22-Sep-21	28-May-21	23-Aug-21	0%	60	\$120,153	Greg Noman																												
P377i465	Install Local Oscillator (LO) distribution cabling along the north wall for feeding LLRF LO Distribution amplifiers	29-Jun-21	13-Jul-21	28-May-21	11-Jun-21	0%	10	\$2,444	Greg Noman																												
P377i955	Install circulators for klystrons 30C through 32D (Phase 1)	13-Aug-21	26-Aug-21	12-Jul-21	23-Jul-21	0%	10	\$7,332	Greg Noman																												
P377i212	Install Conduit for HV Cables - SCL-MOD-30	08-Sep-21	13-Sep-21	27-Jul-21	30-Jul-21	0%	4	\$4,888	Greg Noman																												
P377i214	Terminate Connections for klystrons 30C through 32D (Phase 1)	23-Sep-21	06-Oct-21	24-Aug-21	07-Sep-21	0%	10	\$9,869	Greg Noman																												
P377i510	Cable pulls from the klystron gallery LLRF racks to the reference line boxes down in the tunnel (Phase 1)	22-Oct-21	28-Oct-21	22-Oct-21	28-Oct-21	0%	5	\$2,502	Greg Noman																												
P377i210	Set XMTR-30 and XMTR-31 Racks	12-Jan-22	18-Jan-22	11-Nov-21	16-Nov-21	0%	4	\$6,133	Greg Noman																												
P377i885	Terminate AC Power Cables to XMTR-30 and XMTR-31	19-Jan-22	20-Jan-22	17-Nov-21	18-Nov-21	0%	2	\$4,222	Greg Noman																												
P377i895	Turn on AC Power to XMTR-30 and XMTR-31	21-Jan-22	24-Jan-22	19-Nov-21	22-Nov-21	0%	2	\$4,222	Greg Noman																												
P377i234	Install HV Cables (XMTR-30 and 31) - SCL-MOD-30	21-Mar-22	22-Mar-22	04-Feb-22	07-Feb-22	0%	2	\$2,240	Greg Noman																												
P377i238	Terminate HV Cables - SCL-MOD-30	23-Mar-22	28-Mar-22	08-Feb-22	11-Feb-22	0%	4	\$3,717	Greg Noman																												
<b>P03.07.07.04.02.02 Phase 2 Installation</b>		17-Aug-21	23-Aug-22	06-Jul-21	23-Aug-22		252	\$253,499																													
P377i208	Install waveguide and loads for klystrons 28B through 30B (Phase 2)	17-Aug-21	12-Nov-21	06-Jul-21	01-Oct-21	0%	63	\$100,122	Greg Noman																												
P377i218	Install LLRF, WG coupler, and XMTR Cabling (Inc. int. and ext.) for klystrons 28B through 30B (Phase 2)	13-Oct-21	18-Jan-22	31-Aug-21	23-Nov-21	0%	60	\$107,568	Greg Noman																												
P377i945	Install circulators for klystrons 28B through 30B (Phase 2)	01-Nov-21	12-Nov-21	20-Sep-21	01-Oct-21	0%	10	\$6,756	Greg Noman																												
P377i222	Install Conduit for HV Cables - SCL-MOD-28	10-Dec-21	15-Dec-21	27-Oct-21	01-Nov-21	0%	4	\$5,005	Greg Noman																												
P377i228	Terminate Connections for klystrons 28B through 30B (Phase 2)	19-Jan-22	01-Feb-22	24-Nov-21	09-Dec-21	0%	10	\$10,010	Greg Noman																												
P377i511	Cable pulls from the klystron gallery LLRF racks to the reference line boxes down in the tunnel (Phase 2)	21-Mar-22	25-Mar-22	21-Mar-22	25-Mar-22	0%	5	\$2,502	Greg Noman																												
P377i220	Set XMTR-27 and XMTR-28 Racks	25-Mar-22	30-Mar-22	02-Mar-22	07-Mar-22	0%	4	\$6,133	Greg Noman																												
P377i905	Terminate AC Power Cables to XMTR-27 and XMTR-28	31-Mar-22	01-Apr-22	08-Mar-22	09-Mar-22	0%	2	\$4,222	Greg Noman																												
P377i915	Turn on AC Power to XMTR-27 and XMTR-28	04-Apr-22	05-Apr-22	10-Mar-22	11-Mar-22	0%	2	\$4,222	Greg Noman																												
P377i244	Install HV Cables (XMTR-27 and 28) - SCL-MOD-28	17-Aug-22	17-Aug-22	17-Aug-22	17-Aug-22	0%	1	\$3,241	Greg Noman																												
P377i248	Terminate HV Cables - SCL-MOD-28	18-Aug-22	23-Aug-22	18-Aug-22	23-Aug-22	0%	4	\$3,717	Greg Noman																												
<b>P03.07.07.04.02.03 Phase 3 Installation</b>		17-Nov-21	26-Oct-22	06-Oct-21	26-Oct-22		232	\$251,955																													
P377i224	Install waveguide and loads for klystrons 25A through 28A (Phase 3)	17-Nov-21	25-Feb-22	06-Oct-21	13-Jan-22	0%	63	\$101,430	Greg Noman																												
P377i232	Install LLRF, WG coupler, and XMTR Cabling (Inc. int. and ext.) for klystrons 25A through 28A (Phase 3)	26-Jan-22	20-Apr-22	03-Dec-21	08-Mar-22	0%	60	\$107,568	Greg Noman																												
P377i242	Install Conduit for HV Cables - SCL-MOD-25	23-Mar-22	28-Mar-22	09-Feb-22	14-Feb-22	0%	4	\$5,005	Greg Noman																												
P377i965	Install circulators for klystrons 25A through 28A (Phase 3)	25-Mar-22	07-Apr-22	08-Apr-22	22-Apr-22	0%	10	\$6,756	Greg Noman																												
P377i229	Terminate Connections for klystrons 25A through 28A (Phase 3)	21-Apr-22	04-May-22	09-Mar-22	22-Mar-22	0%	10	\$10,010	Greg Noman																												
P377i240	Set XMTR-25 Racks	22-Apr-22	27-Apr-22	13-Apr-22	19-Apr-22	0%	4	\$6,133	Greg Noman																												
P377i925	Terminate AC Power Cables to XMTR-25	28-Apr-22	29-Apr-22	20-Apr-22	21-Apr-22	0%	2	\$3,221	Greg Noman																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P377I935	Turn on AC Power to XMTR-25	02-May-22	02-May-22	22-Apr-22	22-Apr-22	0%	1	\$3,221	Greg Noman														
P377I512	Cable pulls from the klystron gallery LLRF racks to the reference line boxes down in the tunnel (Phase 3)	08-Aug-22	12-Aug-22	08-Aug-22	12-Aug-22	0%	5	\$2,502	Greg Noman														
P377I250	Install HV Cables (XMTR-25 and 27) - SCL-MOD-25	20-Oct-22	20-Oct-22	20-Oct-22	20-Oct-22	0%	1	\$2,297	Greg Noman														
P377I252	Terminate HV Cables - SCL-MOD-25	21-Oct-22	26-Oct-22	21-Oct-22	26-Oct-22	0%	4	\$3,812	Greg Noman														
<b>P03.07.07.04.03 Cryomodule Controls Cabling Installation</b>		03-May-21 A	11-May-23	06-Jan-21	11-May-23		397	\$305,392															
<b>P03.07.07.04.03.01 Phase 1 Installation</b>		03-May-21 A	11-Apr-22	06-Jan-21	11-Apr-22		129	\$93,443															
P377I316	Branch Cable terminations (Pigtail to BLI) CM 32/31 and Labeling of BLI Terminal Blocks	03-May-21 A	03-May-21 A	06-Jan-21	28-Jan-21	100%	0	\$19,430	Greg Noman														
P377I316a	Branch Cable terminations (Pigtail to BLI) CM 32/31 (Adjustment Activity PCR RF-2021-16)	04-May-21 A	04-May-21 A	03-May-21	03-May-21	100%	0	(\$19,430)	Greg Noman														
P377I304	Install Marshalling Cabinet (Phase 1)	29-Sep-21	08-Oct-21	06-Jul-21	15-Jul-21	0%	8	\$3,732	Greg Noman														
P377I191	Pull Cryo Controls Cables From Klystron Gallery to Tunnel (Phase 1)	22-Oct-21	02-Nov-21	22-Oct-21	02-Nov-21	0%	8	\$26,275	Greg Noman														
P377I302	Install 3 Cryo/Tuner Racks Row 50 (Phase 1)	03-Nov-21	12-Nov-21	06-Jul-21	15-Jul-21	0%	8	\$3,754	Greg Noman														
P377I306	Klystron Gallery cable termination CM 32/31	22-Dec-21	18-Jan-22	22-Dec-21	18-Jan-22	0%	16	\$19,894	Greg Noman														
P377I314	Linac cable Tunnel terminations (to BLI) CM 32	21-Mar-22	30-Mar-22	21-Mar-22	30-Mar-22	0%	8	\$9,947	Greg Noman														
P377I316b	Branch Cable terminations (Pigtail to BLI) CM 32/31 and Labeling of BLI Terminal Blocks	21-Mar-22	11-Apr-22	21-Mar-22	11-Apr-22	0%	16	\$19,894	Greg Noman														
P377I312	Linac cable Tunnel terminations (to BLI) CM 31	31-Mar-22	11-Apr-22	31-Mar-22	11-Apr-22	0%	8	\$9,947	Greg Noman														
<b>P03.07.07.04.03.02 Phase 2 Installation</b>		03-May-21 A	17-Nov-22	06-Jan-21	17-Nov-22		231	\$127,775															
P377I332	Branch Cable terminations (Pigtail to BLI) CM 30/29/28 and Labeling of BLI Terminal Blocks	03-May-21 A	03-May-21 A	06-Jan-21	28-Jan-21	100%	0	\$29,145	Greg Noman														
P377I332a	Branch Cable terminations (Pigtail to BLI) CM 30/29/28 (Adjustment Activity PCR RF-2021-16)	04-May-21 A	04-May-21 A	03-May-21	03-May-21	100%	0	(\$29,145)	Greg Noman														
P377I308	Install Marshalling Cabinet (Phase 2)	14-Dec-21	03-Jan-22	27-Oct-21	05-Nov-21	0%	8	\$3,754	Greg Noman														
P377I310	Install 3 Cryo/Tuner Racks Row ## (Phase 2)	14-Dec-21	03-Jan-22	27-Oct-21	05-Nov-21	0%	8	\$3,754	Greg Noman														
P377I401	Pull Cryo Controls Cables From Klystron Gallery to Tunnel (Phase 2)	08-Aug-22	17-Aug-22	08-Aug-22	17-Aug-22	0%	8	\$30,029	Greg Noman														
P377I332b	Branch Cable terminations (Pigtail to BLI) CM 30/29/28 and Labeling of BLI Terminal Blocks	08-Aug-22	29-Aug-22	08-Aug-22	29-Aug-22	0%	16	\$29,841	Greg Noman														
P377I330	Linac cable Tunnel terminations (to BLI) CM 30	18-Aug-22	29-Aug-22	18-Aug-22	29-Aug-22	0%	8	\$9,947	Greg Noman														
P377I328	Linac cable Tunnel terminations (to BLI) CM 29	30-Aug-22	09-Sep-22	30-Aug-22	09-Sep-22	0%	8	\$9,947	Greg Noman														
P377I326	Linac cable Tunnel terminations (to BLI) CM 28	12-Sep-22	21-Sep-22	12-Sep-22	21-Sep-22	0%	8	\$9,947	Greg Noman														
P377I322	Klystron Gallery cable termination CM 30/29/28	17-Oct-22	17-Nov-22	17-Oct-22	17-Nov-22	0%	24	\$30,557	Greg Noman														
<b>P03.07.07.04.03.03 Phase 3 Installation</b>		03-May-21 A	11-May-23	06-Jan-21	11-May-23		71	\$84,175															
P377I338	Branch Cable terminations (Pigtail to BLI) CM 27/25 and Labeling of BLI Terminal Blocks	03-May-21 A	03-May-21 A	06-Jan-21	28-Jan-21	100%	0	\$19,430	Greg Noman														
P377I338a	Branch Cable terminations (Pigtail to BLI) CM 27/25 (Adjustment Activity PCR RF-2021-16)	04-May-21 A	04-May-21 A	03-May-21	03-May-21	100%	0	(\$19,430)	Greg Noman														
P377I411	Pull Cryo Controls Cables From Klystron Gallery to Tunnel (Phase 3)	01-Feb-23	10-Feb-23	01-Feb-23	10-Feb-23	0%	8	\$23,062	Greg Noman														
P377I338b	Branch Cable terminations (Pigtail to BLI) CM 27/25 and Labeling of BLI Terminal Blocks	01-Feb-23	22-Feb-23	01-Feb-23	22-Feb-23	0%	16	\$20,371	Greg Noman														
P377I336	Linac cable Tunnel terminations (to BLI) CM 27	13-Feb-23	22-Feb-23	13-Feb-23	22-Feb-23	0%	8	\$10,186	Greg Noman														
P377I334	Linac cable Tunnel terminations (to BLI) CM 25	23-Feb-23	06-Mar-23	23-Feb-23	06-Mar-23	0%	8	\$10,186	Greg Noman														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P3771485	SCL Pull Cables for BL Vac System 8 (Phase 2) - CM 29	08-Aug-22	19-Aug-22	08-Aug-22	19-Aug-22	0%	10	\$4,280	Greg Noman														
P3771524	SCL Terminate Cables for BL Vac System 8 (Phase 2) - Klystron Gallery end	22-Aug-22	19-Sep-22	22-Aug-22	19-Sep-22	0%	20	\$11,457	Greg Noman														
P3771534	SCL Terminate (Connectorize) Cables for BL Vac System 8 (Phase 2) - Linac Tunnel end - CM29	22-Aug-22	26-Aug-22	22-Aug-22	26-Aug-22	0%	5	\$3,348	Greg Noman														
P3771490	SCL Pull Cables for BL Vac System 8 (Phase 2) - CM 28	22-Aug-22	02-Sep-22	22-Aug-22	02-Sep-22	0%	10	\$5,093	Greg Noman														
P3771536	SCL Terminate (Connectorize) Cables for BL Vac System 8 (Phase 2) - Linac Tunnel end - CM28	06-Sep-22	12-Sep-22	06-Sep-22	12-Sep-22	0%	5	\$3,348	Greg Noman														
<b>P03.07.07.04.05.03 Phase 3 Installation</b>		<b>01-Feb-23</b>	<b>19-Apr-23</b>	<b>01-Feb-23</b>	<b>19-Apr-23</b>		<b>55</b>	<b>\$32,960</b>															
P3771470	SCL Pull Cables for BL Vac System 7 (Phase 3) - CM 27	01-Feb-23	14-Feb-23	01-Feb-23	14-Feb-23	0%	10	\$5,225	Greg Noman														
P3771542	SCL Terminate (Connectorize) Cables for BL Vac System 7 (Phase 3) - Linac Tunnel end - CM 27	15-Feb-23	21-Feb-23	15-Feb-23	21-Feb-23	0%	5	\$3,436	Greg Noman														
P3771475	SCL Pull Cables for BL Vac System 7 (Phase 3) - CM 25	15-Feb-23	28-Feb-23	15-Feb-23	28-Feb-23	0%	10	\$5,225	Greg Noman														
P3771544	SCL Terminate (Connectorize) Cables for BL Vac System 7 (Phase 3) - Linac Tunnel end - CM 25	01-Mar-23	07-Mar-23	01-Mar-23	07-Mar-23	0%	5	\$3,436	Greg Noman														
P3771538	SCL Terminate Cables for BL Vac System 7 (Phase 3) - Klystron Gallery end	08-Mar-23	19-Apr-23	08-Mar-23	19-Apr-23	0%	30	\$15,638	Greg Noman														
<b>P03.07.07.04.06 HVCM Cabling Installation</b>		<b>23-Apr-21 A</b>	<b>13-Sep-22</b>	<b>02-Jul-21</b>	<b>13-Sep-22</b>		<b>320</b>	<b>\$473,688</b>															
<b>P03.07.07.04.06.01 Phase 1 Installation</b>		<b>23-Apr-21 A</b>	<b>09-Nov-21</b>	<b>02-Jul-21</b>	<b>12-Oct-21</b>		<b>94</b>	<b>\$156,471</b>															
P3771610	Install Loxarmor Cabling SCL-MOD-30	23-Apr-21 A	13-May-21 A	17-Aug-21	17-Aug-21	100%	0	\$5,377	Greg Noman														
P3771256	Install SCL-MOD-30 Cables	29-Jun-21	11-Aug-21	02-Jul-21	16-Aug-21	0%	31	\$75,214	Greg Noman														
P3771460	Tie in 13.8kV Power Cables to Transformer SCL-MOD-30	29-Jul-21	29-Jul-21	23-Aug-21	23-Aug-21	0%	1	\$1,222	Greg Noman														
P3771614	Energize Switchgear SCL-MOD-30	30-Jul-21	30-Jul-21	24-Aug-21	24-Aug-21	0%	1	\$611	Greg Noman														
P3771616	Install SCR cabinets for SCL-MOD-30	17-Aug-21	23-Aug-21	18-Aug-21	24-Aug-21	0%	5	\$733	Greg Noman														
P3771620	Install SCR control cables for SCL-MOD-30	27-Aug-21	02-Sep-21	30-Aug-21	03-Sep-21	0%	5	\$6,110	Greg Noman														
P3771640	Install 4/0 cables and conduit for SCL-MOD-30 (SCR to Safety Enclosure)	24-Sep-21	11-Oct-21	26-Aug-21	13-Sep-21	0%	12	\$15,530	Greg Noman														
P3771618	Terminate & Test Cabling SCL-MOD-30	12-Oct-21	09-Nov-21	14-Sep-21	12-Oct-21	0%	21	\$51,675	Greg Noman														
<b>P03.07.07.04.06.02 Phase 2 Installation</b>		<b>23-Apr-21 A</b>	<b>19-Apr-22</b>	<b>17-Aug-21</b>	<b>09-Mar-22</b>		<b>177</b>	<b>\$158,587</b>															
P3771624	Install Loxarmor Cabling SCL-MOD-28	23-Apr-21 A	21-May-21 A	17-Aug-21	17-Aug-21	100%	0	\$5,377	Greg Noman														
P3771660	Tie in 13.8kV Power Cables to Transformer SCL-MOD-28	29-Jul-21	29-Jul-21	23-Aug-21	23-Aug-21	0%	1	\$1,222	Greg Noman														
P3771628	Energize Switchgear SCL-MOD-28	30-Jul-21	30-Jul-21	24-Aug-21	24-Aug-21	0%	1	\$611	Greg Noman														
P3771630	Install SCR cabinets for SCL-MOD-28	16-Dec-21	22-Dec-21	16-Dec-21	22-Dec-21	0%	5	\$751	Greg Noman														
P3771246	Install SCL-MOD-28 Cables	22-Dec-21	08-Feb-22	22-Dec-21	08-Feb-22	0%	31	\$77,011	Greg Noman														
P3771634	Install SCR control cables for SCL-MOD-28	06-Jan-22	12-Jan-22	06-Jan-22	12-Jan-22	0%	5	\$6,256	Greg Noman														
P3771648	Install 4/0 cables and conduit for SCL-MOD-28 (SCR to Safety Enclosure)	03-Mar-22	18-Mar-22	14-Jan-22	01-Feb-22	0%	12	\$15,684	Greg Noman														
P3771632	Terminate & Test Cabling SCL-MOD-28	21-Mar-22	19-Apr-22	09-Feb-22	09-Mar-22	0%	21	\$51,675	Greg Noman														
<b>P03.07.07.04.06.03 Phase 3 Installation</b>		<b>23-Apr-21 A</b>	<b>13-Sep-22</b>	<b>24-Nov-21</b>	<b>13-Sep-22</b>		<b>320</b>	<b>\$158,630</b>															
P3771636	Install Loxarmor Cabling SCL-MOD-25	23-Apr-21 A	11-Jun-21	24-Nov-21	24-Nov-21	10%	9	\$5,377	Greg Noman														
P3771670	Tie in 13.8kV Power Cables to Transformer SCL-MOD-25	30-Nov-21	30-Nov-21	02-Dec-21	02-Dec-21	0%	1	\$1,251	Greg Noman														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P3771638	Energize Switchgear SCL-MOD-25	01-Dec-21	01-Dec-21	03-Dec-21	03-Dec-21	0%	1	\$626	Greg Norman															
P3771642	Install SCR cabinets for SCL-MOD-25	02-Mar-22	08-Mar-22	19-Jan-22	25-Jan-22	0%	5	\$751	Greg Norman															
P3771646	Install SCR control cables for SCL-MOD-25	14-Mar-22	18-Mar-22	31-Jan-22	04-Feb-22	0%	5	\$6,256	Greg Norman															
P3771121	Install SCL-MOD-25 Cables	16-May-22	28-Jun-22	16-May-22	28-Jun-22	0%	31	\$77,011	Greg Norman															
P3771650	Install 4/0 cables and conduit for SCL-MOD-25 (SCR to Safety Enclosure)	28-Jul-22	12-Aug-22	28-Jul-22	12-Aug-22	0%	12	\$15,684	Greg Norman															
P3771644	Terminate & Test Cabling SCL-MOD-25	15-Aug-22	13-Sep-22	15-Aug-22	13-Sep-22	0%	21	\$51,675	Greg Norman															
P03.07.07.04.07 PPS Cabling Installation		29-Jun-21	01-Feb-22	28-May-21	09-Dec-21		144	\$15,270																
P03.07.07.04.07.01 Phase 1 Installation		29-Jun-21	06-Jul-21	28-May-21	04-Jun-21		5	\$5,010																
P3771161	Install PPS Cables (Phase 1)	29-Jun-21	06-Jul-21	28-May-21	04-Jun-21	0%	5	\$5,010	Greg Norman															
P03.07.07.04.07.02 Phase 2 Installation		13-Oct-21	19-Oct-21	31-Aug-21	07-Sep-21		5	\$5,130																
P3771341	Install PPS Cables (Phase 2)	13-Oct-21	19-Oct-21	31-Aug-21	07-Sep-21	0%	5	\$5,130	Greg Norman															
P03.07.07.04.07.03 Phase 3 Installation		26-Jan-22	01-Feb-22	03-Dec-21	09-Dec-21		5	\$5,130																
P3771351	Install PPS Cables (Phase 3)	26-Jan-22	01-Feb-22	03-Dec-21	09-Dec-21	0%	5	\$5,130	Greg Norman															
P03.07.07.04.08 Global Controls Cabling Installation		29-Jun-21	28-Feb-22	28-May-21	14-Jan-22		163	\$76,292																
P03.07.07.04.08.01 Phase 1 Installation		29-Jun-21	02-Aug-21	28-May-21	01-Jul-21		24	\$27,495																
P3771146	Install ICS Global Controls Cables (Phase 1)	29-Jun-21	12-Jul-21	28-May-21	10-Jun-21	0%	9	\$7,882	Greg Norman															
P3771802	Communication cable installation labor Phase 1	29-Jun-21	13-Jul-21	28-May-21	11-Jun-21	0%	10	\$12,220	Greg Norman															
P3771804	ICS cable terminations for Phase 1 (fiber and copper)	13-Jul-21	02-Aug-21	11-Jun-21	01-Jul-21	0%	15	\$2,505	Greg Norman															
P3771806	Communication cable Termination Phase 1	14-Jul-21	27-Jul-21	14-Jun-21	25-Jun-21	0%	10	\$4,888	Greg Norman															
P03.07.07.04.08.02 Phase 2 Installation		13-Oct-21	16-Nov-21	31-Aug-21	05-Oct-21		25	\$28,152																
P3771808	Communication cable installation labor Phase 2	13-Oct-21	02-Nov-21	31-Aug-21	21-Sep-21	0%	15	\$12,512	Greg Norman															
P3771421	Install ICS Global Controls Cables (Phase 2)	13-Oct-21	25-Oct-21	31-Aug-21	13-Sep-21	0%	9	\$8,070	Greg Norman															
P3771812	ICS cable terminations for Phase 2 (fiber and copper)	26-Oct-21	15-Nov-21	14-Sep-21	04-Oct-21	0%	15	\$2,565	Greg Norman															
P3771814	Communication cable Termination Phase 2	03-Nov-21	16-Nov-21	22-Sep-21	05-Oct-21	0%	10	\$5,005	Greg Norman															
P03.07.07.04.08.03 Phase 3 Installation		26-Jan-22	28-Feb-22	03-Dec-21	14-Jan-22		24	\$20,645																
P3771818	Communication cable installation labor Phase 3	26-Jan-22	08-Feb-22	03-Dec-21	16-Dec-21	0%	10	\$5,005	Greg Norman															
P3771431	Install ICS Global Controls Cables (Phase 3)	26-Jan-22	07-Feb-22	03-Dec-21	15-Dec-21	0%	9	\$8,070	Greg Norman															
P3771822	ICS cable terminations for Phase 3 (fiber and copper)	08-Feb-22	28-Feb-22	16-Dec-21	14-Jan-22	0%	15	\$2,565	Greg Norman															
P3771824	Communication cable Termination Phase 3	09-Feb-22	22-Feb-22	17-Dec-21	10-Jan-22	0%	10	\$5,005	Greg Norman															
P03.08 RF Controls		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$572,841																
P03.08.01 Management and System Integration - RF Controls		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$94,614																
P03.08.01.01 Management and System Integration - RF Controls - (NEP38110)		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$94,614																
P381M1	WBS Management P.3.8 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P381M62	WBS Management P.3.8.2 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White															
P381M78	CAM management P.3.8.3 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White															
P381M64	WBS Management P.3.8.2 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White															
P381M80	CAM management P.3.8.3 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White															
P381M10	WBS Management P.3.8 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White															
P381M6	WBS Management P.3.8 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P381M66	WBS Management P.3.8.2 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P381M82	CAM management P.3.8.3 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P381M11	WBS Management P.3.8 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P381M84	CAM management P.3.8.3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P381M68	WBS Management P.3.8.2 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P381M84B	CAM management P.3.8.3 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P381M11B	WBS Management P.3.8 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P381M68B	WBS Management P.3.8.2 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P381M68C	WBS Management P.3.8.2 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P381M11C	WBS Management P.3.8 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P381M84C	CAM management P.3.8.3 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P381M16	WBS Management P.3.8 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P381M70	WBS Management P.3.8.2 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P381M86	CAM management P.3.8.3 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P381M86a	CAM management P.3.8.3 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P381M16a	WBS Management P.3.8 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P381M70a	WBS Management P.3.8.2 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P381M21	WBS Management P.3.8 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P381M72	WBS Management P.3.8.2 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P381M88	CAM management P.3.8.3 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P381M21a	WBS Management P.3.8 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$11,287	Karen White															
P381M72a	WBS Management P.3.8.2 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$8,495	Karen White															
P381M88a	CAM management P.3.8.3 FY21 (LOE) Part 2 (Mar21 - Jan22)	29-Mar-21 A	31-Jan-22	29-Mar-21	31-Jan-22	21.26%	163	\$17,047	Karen White															
P381M26	WBS Management P.3.8 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$12,661	Karen White															
P381M74	WBS Management P.3.8.2 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$6,331	Karen White															
P381M003	P.3.8 and P.3.9 Organize and Verify Documentation for Phase 1 ARR	13-Sep-22	10-Oct-22	13-Sep-22	10-Oct-22	0%	20	\$7,683	Karen White															
P381M31	WBS Management P.3.8 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$6,571	Karen White															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P381M76	WBS Management P.3.8.2 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$3,286	Karen White															
P381M002	P.3.8 and P.3.9 Organize and Verify Documentation for Phase 2 ARR	16-Mar-23	13-Apr-23	16-Mar-23	13-Apr-23	0%	20	\$7,885	Karen White															
P381M79	WBS Management P.3.8.2 FY24 (LOE)	02-Oct-23	07-May-24	02-Oct-23	07-May-24	0%	147	\$1,228	Karen White															
P381M35	WBS Management P.3.8 FY24 (LOE)	02-Oct-23	07-May-24	02-Oct-23	07-May-24	0%	147	\$3,956	Karen White															
P381M001	P.3.8 and P.3.9 Organize and Verify Documentation for Phase 3 ARR	17-Apr-24	14-May-24	17-Apr-24	14-May-24	0%	20	\$8,185	Karen White															
P03.08.02 Linac RF Controls		01-Oct-18 A	08-May-24	01-Oct-18	08-May-24		726	\$472,399																
P03.08.02.02 Design - Linac RF Controls - (NEP38220)		01-Oct-18 A	24-Jan-22	01-Oct-18	15-Nov-21		158	\$227,131																
P382D116	Update Row 35 equipment rack drawings	17-Jul-20 A	11-Sep-20 A	17-Jul-20	11-Sep-20	100%	0	\$0	Karen White															
P382D181	EPICS SW replication for the HVCM systems	02-Jul-21	28-Sep-21	24-May-21	17-Aug-21	0%	60	\$26,936	Karen White															
P382D186	EPICS SW replication for the HPRF systems	19-Oct-21	24-Jan-22	23-Aug-21	15-Nov-21	0%	60	\$29,138	Karen White															
P03.08.02.02.01 LLRF SW Support		01-Oct-18 A	01-Nov-21	01-Oct-18	01-Nov-21		108	\$171,058																
P03.08.02.02.01.01 General		01-Oct-18 A	17-Sep-20 A	01-Oct-18	17-Sep-20		0	\$0																
P382D605	SW Support for LLRF - Setup test area in LLRF Lab to support development	01-Oct-18 A	12-Oct-18 A	01-Oct-18	12-Oct-18	100%	0	\$0	Karen White															
P382D600	SW Support for LLRF - Additional Firmware Design for Platform Alternatives	16-Oct-18 A	14-Nov-18 A	16-Oct-18	14-Nov-18	100%	0	\$0	Karen White															
P382D610	SW Support for LLRF - Generate Software Requirements Document 1%	30-Jan-19 A	29-Mar-19 A	30-Jan-19	29-Mar-19	100%	0	\$0	Karen White															
P382D635	SW Support for LLRF - Prep for LLRF Preliminary Design Review (PDR)	01-May-19 A	13-May-19 A	01-May-19	13-May-19	100%	0	\$0	Karen White															
P382D640	SW Support for LLRF - P.3.4 LLRF Preliminary Design Review (PDR)	14-May-19 A	15-May-19 A	14-May-19	15-May-19	100%	0	\$0	Karen White															
P382D610B	SW Support for LLRF - Generate Software Requirements Document - Continued	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Karen White															
P382D680	SW Support for LLRF - Prep for LLRF Final Design Review (FDR)	01-Sep-20 A	15-Sep-20 A	01-Sep-20	15-Sep-20	100%	0	\$0	Karen White															
P382D685	SW Support for LLRF - P.3.4 LLRF Final Design review (FDR)	16-Sep-20 A	17-Sep-20 A	16-Sep-20	17-Sep-20	100%	0	\$0	Karen White															
P03.08.02.02.01.02 Design test article of HPM-II RTM		04-Dec-18 A	30-Aug-19 A	04-Dec-18	30-Aug-19		0	\$0																
P382D615	SW Support for LLRF - write test firmware for HPM-II RTM 85%	04-Dec-18 A	29-Mar-19 A	04-Dec-18	29-Mar-19	100%	0	\$0	Karen White															
P382D615B	SW Support for LLRF - write test firmware for HPM-II RTM - Continued	01-Apr-19 A	16-Aug-19 A	01-Apr-19	16-Aug-19	100%	0	\$0	Karen White															
P382D620	SW Support for LLRF - test, iterate, rework of the HPM-II RTM	19-Aug-19 A	30-Aug-19 A	19-Aug-19	30-Aug-19	100%	0	\$0	Karen White															
P03.08.02.02.01.03 Develop System Model		03-Jan-19 A	29-Mar-19 A	03-Jan-19	29-Mar-19		0	\$0																
P382D315	SW Support for LLRF - Model Cavity Klystron and Controller 15%	03-Jan-19 A	29-Mar-19 A	03-Jan-19	29-Mar-19	100%	0	\$0	Karen White															
P03.08.02.02.01.04 Design test article of FCM-II RTM		16-Dec-19 A	10-Jan-20 A	16-Dec-19	10-Jan-20		0	\$0																
P382D650	SW Support for LLRF - write test firmware for FCM-II RTM - interface software for FCM-II RTM	16-Dec-19 A	10-Jan-20 A	16-Dec-19	10-Jan-20	100%	0	\$0	Karen White															
P03.08.02.02.01.05 Firmware Development HPM-II		03-Feb-20 A	30-Jun-20 A	03-Feb-20	30-Jun-20		0	\$0																
P382D730	SW Support for LLRF - Firmware Development HPM-II (LOE)	03-Feb-20 A	31-Mar-20 A	03-Feb-20	31-Mar-20	100%	0	\$0	Karen White															
P382D730a	SW Support for LLRF - Firmware Development HPM-II (LOE) (Apr20>)	01-Apr-20 A	30-Jun-20 A	01-Apr-20	30-Jun-20	100%	0	\$0	Karen White															
P03.08.02.02.01.07 Software for Firmware Development for LLRF - basic functionality		02-Dec-19 A	07-Apr-21 A	02-Dec-19	07-Apr-21		0	\$114,726																
P382D665	SW Support for LLRF - Define Firmware Block Diagram and define interfaces (Hardware/Software)	02-Dec-19 A	24-Jan-20 A	02-Dec-19	24-Jan-20	100%	0	\$0	Karen White															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P382D750	SW Support for LLRF - Firmware Development - basic functionality (LOE)	11-Feb-20 A	31-Mar-20 A	11-Feb-20	31-Mar-20	100%	0	\$0	Karen White															
P382D750a	SW Support for LLRF - Firmware Development - basic functionality (LOE) (Apr20>)	01-Apr-20 A	13-May-20 A	01-Apr-20	13-May-20	100%	0	\$0	Karen White															
P382D705	SW Support for LLRF - Iterate Firmware / Bug Fixes (Cycle 1) (LOE) (Converted to LOE)	19-Aug-20 A	30-Oct-20 A	19-Aug-20	30-Oct-20	100%	0	\$0	Karen White															
P382D710	SW Support for LLRF - Iterate Firmware / Bug Fixes (Cycle 2) (LOE) (Converted to LOE)	02-Nov-20 A	01-Feb-21 A	02-Nov-20	01-Feb-21	100%	0	\$56,470	Karen White															
P382D740	SW Support for LLRF - Iterate Firmware / Bug Fixes (Cycle 3) (LOE) (Converted to LOE)	02-Feb-21 A	07-Apr-21 A	02-Feb-21	07-Apr-21	100%	0	\$58,256	Karen White															
P03.08.02.02.01.08 Software for Firmware Development for LLRF - advanced functionality		08-Apr-21 A	01-Nov-21	08-Apr-21	01-Nov-21		108	\$56,332																
P382D720	SW Support for LLRF - Integrate Advanced Features into LLRF System (LOE)	08-Apr-21 A	01-Nov-21	08-Apr-21	01-Nov-21	25.52%	108	\$56,332	Karen White															
P03.08.02.03 Procure/Fab - Linac RF Controls - (NEP38231)		04-Jan-21 A	10-Sep-21	15-Feb-21	15-Jul-21		72	\$59,434																
P03.08.02.03.02 Processors for the LLRF crates		04-Jan-21 A	10-Sep-21	15-Feb-21	15-Jul-21		72	\$59,434																
P382P141	Procure processors for the LLRF crates (and timing daughter cards)	04-Jan-21 A	14-May-21 A	15-Feb-21	05-Mar-21	100%	0	\$97	Karen White															
P382P121	Fabrication of processors for the LLRF crates (and timing daughter cards)	17-May-21 A	09-Sep-21	08-Mar-21	14-Jul-21	15%	71	\$0	Karen White															
P382P221	Receive processors for the LLRF crates (and timing daughter cards)	10-Sep-21	10-Sep-21	15-Jul-21	15-Jul-21	0%	1	\$59,337	Karen White															
P03.08.02.04 Installation - Linac RF Controls - (NEP38240)		09-Nov-21	08-May-24	02-Nov-21	08-May-24		613	\$185,833																
P03.08.02.04.1 Phase 1 Installation		09-Nov-21	03-Oct-22	02-Nov-21	03-Oct-22		221	\$66,877																
P382i166	LLRF Controls SW configuration for XMTR-31 and 30 (Phase 1)	09-Nov-21	14-Jan-22	02-Nov-21	07-Jan-22	0%	40	\$36,056	Karen White															
P382i760	HPRF SW deployment XMTR-31 and 30	25-Jan-22	21-Feb-22	23-Nov-21	22-Dec-21	0%	20	\$9,014	Karen White															
P382i206	HPRF SW deployment HVCM 30	29-Apr-22	26-May-22	29-Apr-22	26-May-22	0%	20	\$9,014	Karen White															
P382i356	HPRF and HVCM integration testing SCL-MOD-30	02-Jun-22	08-Jun-22	02-Jun-22	08-Jun-22	0%	5	\$2,253	Karen White															
P382i366	LLRF & HPRF Load Testing (Phase 1)	09-Aug-22	15-Aug-22	09-Aug-22	15-Aug-22	0%	5	\$7,512	Karen White															
P382i336	LLRF SW integration testing CM 31 & 32	27-Sep-22	03-Oct-22	27-Sep-22	03-Oct-22	0%	5	\$3,028	Karen White															
P03.08.02.04.2 Phase 2 Installation		26-Jan-22	12-Apr-23	03-Dec-21	26-Apr-23		301	\$68,836																
P382i161	LLRF Controls SW configuration for XMTR-28 and 27 (Phase 2)	26-Jan-22	22-Mar-22	03-Dec-21	08-Feb-22	0%	40	\$36,056	Karen White															
P382i770	HPRF SW deployment XMTR-28 and 27	06-Apr-22	04-May-22	14-Mar-22	08-Apr-22	0%	20	\$9,014	Karen White															
P382i201	HPRF SW deployment HVCM 28	04-Aug-22	31-Aug-22	04-Aug-22	31-Aug-22	0%	20	\$9,014	Karen White															
P382i351	HPRF and HVCM integration testing SCL-MOD-28	06-Sep-22	03-Oct-22	06-Sep-22	03-Oct-22	0%	20	\$2,258	Karen White															
P382i367	LLRF & HPRF Load Testing (Phase 2)	21-Nov-22	29-Nov-22	21-Nov-22	29-Nov-22	0%	5	\$7,809	Karen White															
P382i331	LLRF SW integration testing CM 30, 29 and 28	05-Apr-23	12-Apr-23	20-Apr-23	26-Apr-23	0%	5	\$4,685	Karen White															
P03.08.02.04.3 Phase 3 Installation		27-Apr-22	08-May-24	15-Mar-22	08-May-24		503	\$50,121																
P382i151	LLRF Controls SW configuration for XMTR-25 (Phase 3)	27-Apr-22	24-May-22	15-Mar-22	11-Apr-22	0%	20	\$18,028	Karen White															
P382i780	HPRF SW deployment XMTR-25	03-May-22	31-May-22	25-Apr-22	20-May-22	0%	20	\$9,014	Karen White															
P382i196	HPRF SW deployment HVCM 25	19-Oct-22	15-Nov-22	19-Oct-22	15-Nov-22	0%	20	\$9,371	Karen White															
P382i346	HPRF and HVCM integration testing SCL-MOD-25	18-Nov-22	19-Dec-22	18-Nov-22	19-Dec-22	0%	20	\$2,343	Karen White															
P382i368	LLRF & HPRF Load Testing (Phase 3)	07-Nov-23	13-Nov-23	07-Nov-23	13-Nov-23	0%	5	\$8,118	Karen White															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028															
P382I316	LLRF SW integration testing CM 27 and 25	02-May-24	08-May-24	02-May-24	08-May-24	0%	5	\$3,247	Karen White	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
<b>P03.08.03 Linac Water System Controls</b>		26-Nov-18 A	10-Dec-21	26-Nov-18	10-Dec-21		34	\$5,828																													
<b>P03.08.03.02 Design - Linac Water System Controls -(NEP38320)</b>		26-Nov-18 A	30-Nov-18 A	26-Nov-18	30-Nov-18		0	\$0																													
P383D71	KL04 Controls: Design	26-Nov-18 A	30-Nov-18 A	26-Nov-18	30-Nov-18	100%	0	\$0	Karen White																												
<b>P03.08.03.04 Installation - Linac Water System Controls</b>		22-Oct-21	10-Dec-21	22-Oct-21	10-Dec-21		34	\$5,828																													
P383I148	KL04 Controls: PLC and EPICS Integration	22-Oct-21	28-Oct-21	22-Oct-21	28-Oct-21	0%	5	\$4,371	Karen White																												
P383I158	KL04 Controls: Installation Support	06-Dec-21	10-Dec-21	06-Dec-21	10-Dec-21	0%	5	\$1,457	Karen White																												
<b>P03.09 RF/SCL Global Controls</b>		03-Oct-16 A	06-May-24	03-Oct-16	06-May-24		724	\$458,354																													
<b>P03.09.01 Management and System Integration - RF/SCL Global Controls</b>		03-Oct-16 A	07-Mar-24	03-Oct-16	07-Mar-24		683	\$128,050																													
<b>P03.09.01.01 Management and System Integration - RF/SCL Global Controls - (NEP39110)</b>		03-Oct-16 A	07-Mar-24	03-Oct-16	07-Mar-24		683	\$128,050																													
P391M1	WBS Management P.3.9 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White																												
P391M35	CAM L3/L4 Management P.3.9.2 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White																												
P391M51	CAM L3/L4 Management P.3.9.3 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White																												
P391M65	CAM L3/L4 Management P.3.9.4 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White																												
P391M4	WBS Management P.3.9 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White																												
P391M36	CAM L3/L4 Management P.3.9.2 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White																												
P391M52	CAM L3/L4 Management P.3.9.3 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White																												
P391M66	CAM L3/L4 Management P.3.9.4 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White																												
P391M6	WBS Management P.3.9 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White																												
P391M39	CAM L3/L4 Management P.3.9.2 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White																												
P391M53	CAM L3/L4 Management P.3.9.3 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White																												
P391M67	CAM L3/L4 Management P.3.9.4 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White																												
P391M11	WBS Management P.3.9 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White																												
P391M55	CAM L3/L4 Management P.3.9.3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White																												
P391M69	CAM L3/L4 Management P.3.9.4 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White																												
P391M55B	CAM L3/L4 Management P.3.9.3 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White																												
P391M69B	CAM L3/L4 Management P.3.9.4 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White																												
P391M11B	WBS Management P.3.9 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White																												
P391M11C	WBS Management P.3.9 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White																												
P391M55C	CAM L3/L4 Management P.3.9.3 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White																												
P391M69C	CAM L3/L4 Management P.3.9.4 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White																												
P391M16	WBS Management P.3.9 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White																												
P391M43	CAM L3/L4 Management P.3.9.2 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White																												

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1									13-Aug-21 10:09												
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P391M57	CAM L3/L4 Management P.3.9.3 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White														
P391M71	CAM L3/L4 Management P.3.9.4 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White														
P391M16a	WBS Management P.3.9 FY20a (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White														
P391M71a	CAM L3/L4 Management P.3.9.4 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White														
P391M57a	CAM L3/L4 Management P.3.9.3 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White														
P391M43a	CAM L3/L4 Management P.3.9.2 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White														
P391M21	WBS Management P.3.9 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White														
P391M45	CAM L3/L4 Management P.3.9.2 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White														
P391M59	CAM L3/L4 Management P.3.9.3 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White														
P391M73	CAM L3/L4 Management P.3.9.4 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White														
P391M21a	WBS Management P.3.9 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$17,213	Karen White														
P391M45a	CAM L3/L4 Management P.3.9.2 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$3,622	Karen White														
P391M73a	CAM L3/L4 Management P.3.9.4 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$3,622	Karen White														
P391M59a	CAM L3/L4 Management P.3.9.3 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$5,452	Karen White														
P391M21b	WBS Management P.3.9 FY21 (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$37,020	Karen White														
P391M26	WBS Management P.3.9 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$42,794	Karen White														
P391MS01	RF/SCL Global Controls Installation Complete (MS)		19-Aug-22		19-Aug-22	0%	0	\$0	Karen White														
P391M28	WBS Management P.3.9 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$13,142	Karen White														
P391M30	WBS Management P.3.9 FY24 (LOE)	02-Oct-23	07-Mar-24	02-Oct-23	07-Mar-24	0%	105	\$5,184	Karen White														
<b>P03.09.02 Linac/SCL Timing/MPS</b>		03-Sep-19 A	19-Apr-22	03-Sep-19	07-Mar-22		218	\$77,315															
<b>P03.09.02.02 Design - Linac/SCL Timing/MPS - (NEP39220)</b>		03-Sep-19 A	15-Nov-19 A	03-Sep-19	15-Nov-19		0	\$0															
P392D36	Revise timing link signal distribution schematic drawings	03-Sep-19 A	15-Nov-19 A	03-Sep-19	15-Nov-19	100%	0	\$0	Karen White														
P392D91	Revise MPS installation schematic drawings	19-Sep-19 A	15-Nov-19 A	19-Sep-19	15-Nov-19	100%	0	\$0	Karen White														
<b>P03.09.02.03 Procure/Fab - Linac/SCL Timing/MPS - (NEP39231)</b>		04-Jan-21 A	14-Jun-21	04-Jan-21	29-Mar-21		10	\$26,698															
P392P142	Procure and receive ICS Global Controls cables (Bluehose, Timing fibers, MPS Fibers, MPS Copper)	04-Jan-21 A	14-Jun-21	04-Jan-21	29-Mar-21	66%	10	\$9,533	Karen White														
P392P806	Procure and Receive ICS cable ends for Phase 1 (fiber and copper)	04-Jan-21 A	14-May-21 A	04-Jan-21	29-Mar-21	100%	0	\$2,027	Karen White														
P392P46	Test timing hardware (Timing Receiver Cards, HVCM fiber fan-out modules, timing link fan-outs)	12-Mar-21 A	14-May-21 A	01-Feb-21	26-Feb-21	100%	0	\$9,174	Karen White														
P392P101	Assemble transition board assemblies	15-Apr-21 A	21-May-21 A	01-Mar-21	26-Mar-21	100%	0	\$2,294	Karen White														
P392P106	Assemble terminal block assemblies	15-Apr-21 A	30-Apr-21 A	01-Mar-21	26-Mar-21	100%	0	\$2,523	Karen White														
P392P111	Test new MPS nodes	24-May-21 A	24-May-21 A	01-Mar-21	26-Mar-21	100%	0	\$1,147	Karen White														
<b>P03.09.02.04 Installation - Linac/SCL Timing/MPS - (NEP39240)</b>		03-Aug-21	19-Apr-22	02-Jul-21	07-Mar-22		174	\$50,617															
P392I126	Install HVCM EPICS software Phase 1	03-Aug-21	30-Aug-21	02-Jul-21	30-Jul-21	0%	20	\$6,424	Karen White														
P392I146	MPS and Timing node installation Phase 1	08-Sep-21	21-Sep-21	02-Aug-21	13-Aug-21	0%	10	\$8,191	Karen White														







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																							
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029										
P394D66	Field cable design for Zone 1	18-Nov-19 A	27-Nov-19 A	18-Nov-19	27-Nov-19	100%	0	\$0	Karen White																								
P394D71	Field cable design for Zone 2	18-Nov-19 A	27-Nov-19 A	18-Nov-19	27-Nov-19	100%	0	\$0	Karen White																								
P394D76	Field cable design for Zone 3	18-Nov-19 A	27-Nov-19 A	18-Nov-19	27-Nov-19	100%	0	\$0	Karen White																								
<b>P03.09.04.03 Procure/Fab - Linac/SCL Networking and Computing Infrastructure - (NEP39430)</b>		<b>18-Dec-20 A</b>	<b>02-Dec-21</b>	<b>04-Jan-21</b>	<b>19-Oct-21</b>		<b>129</b>	<b>\$77,935</b>																									
P394P804	Procure and Receive Communication (Network) cables (includes fiber and copper)	18-Dec-20 A	06-Apr-21 A	04-Jan-21	29-Mar-21	100%	0	\$6,292	Karen White																								
P394P96	Procure and Receive Network and rack hardware for SCL_CTL: Cab50S03 (Phase 1)	15-Mar-21 A	30-Apr-21 A	01-Apr-21	15-Apr-21	100%	0	\$15,856	Karen White																								
P394P116	Procure and Receive Network and rack hardware for SCL_CTL: CabCR06S02 (Phase 1)	15-Mar-21 A	30-Apr-21 A	01-Apr-21	15-Apr-21	100%	0	\$10,656	Karen White																								
P394P126	Procure and Receive Computer equipment (PC and monitor)	01-Jun-21*	27-Jul-21	16-Apr-21	11-Jun-21	0%	40	\$5,292	Karen White																								
P394P121	Procure and receive wall mounting hardware for terminals	01-Jun-21	14-Jun-21	16-Apr-21	29-Apr-21	0%	10	\$1,957	Karen White																								
P394P86	Assemble wall terminal, prepare operating system and load EPICS	15-Jun-21	28-Jun-21	30-Apr-21	13-May-21	0%	10	\$4,128	Karen White																								
P394P111	Procure and Receive Network and rack hardware for SCL_CTL: CabCR05S02 (Phase 2)	17-Aug-21	30-Aug-21	06-Jul-21	19-Jul-21	0%	10	\$8,598	Karen White																								
P394P91	Procure and Receive Network and rack hardware for SCL_CTL: Cab44S04 (Phase 3)	17-Nov-21	02-Dec-21	06-Oct-21	19-Oct-21	0%	10	\$15,252	Karen White																								
P394P106	Procure and Receive Network and rack hardware for SCL_CTL: Cab40S03 (Phase 3)	17-Nov-21	02-Dec-21	06-Oct-21	19-Oct-21	0%	10	\$9,902	Karen White																								
<b>P03.09.04.04 Installation - Linac/SCL Networking and Computing Infrastructure - (NEP39440)</b>		<b>08-Sep-21</b>	<b>20-Apr-22</b>	<b>27-Jul-21</b>	<b>08-Mar-22</b>		<b>150</b>	<b>\$45,838</b>																									
<b>P03.09.04.04.01 Phase 1 Installation</b>		<b>08-Sep-21</b>	<b>05-Oct-21</b>	<b>27-Jul-21</b>	<b>23-Aug-21</b>		<b>20</b>	<b>\$17,637</b>																									
P394I196	Install equipment and patch cables SCL_CTL: CabCR06S02 (Phase 1)	08-Sep-21	21-Sep-21	27-Jul-21	09-Aug-21	0%	10	\$1,376	Karen White																								
P394I191	Install equipment and patch cables SCL_CTL: Cab50S03 (Phase 1)	08-Sep-21	21-Sep-21	27-Jul-21	09-Aug-21	0%	10	\$2,752	Karen White																								
P394I206	Installation supervision for rack Phase 1	22-Sep-21	05-Oct-21	10-Aug-21	23-Aug-21	0%	10	\$4,639	Karen White																								
P394I211	ICS Networking Installation Phase 1	22-Sep-21	05-Oct-21	10-Aug-21	23-Aug-21	0%	10	\$4,639	Karen White																								
P394I131	Computing integration and testing support for Phase 1	22-Sep-21	05-Oct-21	10-Aug-21	23-Aug-21	0%	10	\$4,231	Karen White																								
<b>P03.09.04.04.02 Phase 2 Installation</b>		<b>10-Dec-21</b>	<b>18-Jan-22</b>	<b>27-Oct-21</b>	<b>23-Nov-21</b>		<b>20</b>	<b>\$15,290</b>																									
P394I236	Install equipment and patch cables SCL_CTL: CabCR05S02 (Phase 2)	10-Dec-21	03-Jan-22	27-Oct-21	09-Nov-21	0%	10	\$1,428	Karen White																								
P394I246	Installation supervision for rack Phase 2	04-Jan-22	18-Jan-22	10-Nov-21	23-Nov-21	0%	10	\$4,760	Karen White																								
P394I251	ICS Networking Installation Phase 2	04-Jan-22	10-Jan-22	10-Nov-21	16-Nov-21	0%	5	\$4,760	Karen White																								
P394I136	Computing integration and testing support for Phase 2	04-Jan-22	18-Jan-22	10-Nov-21	23-Nov-21	0%	10	\$4,343	Karen White																								
<b>P03.09.04.04.03 Phase 3 Installation</b>		<b>23-Mar-22</b>	<b>20-Apr-22</b>	<b>09-Feb-22</b>	<b>08-Mar-22</b>		<b>20</b>	<b>\$12,910</b>																									
P394I276	Install equipment and patch cables SCL_CTL: Cab40S03 and SCL_CTL: Cab44S04 (Phase 3)	23-Mar-22	05-Apr-22	09-Feb-22	22-Feb-22	0%	10	\$1,428	Karen White																								
P394I286	Installation supervision for rack Phase 3	06-Apr-22	20-Apr-22	23-Feb-22	08-Mar-22	0%	10	\$2,380	Karen White																								
P394I291	ICS Networking Installation Phase 3	06-Apr-22	20-Apr-22	23-Feb-22	08-Mar-22	0%	10	\$4,760	Karen White																								
P394I141	Computing integration and testing support for Phase 3	06-Apr-22	20-Apr-22	23-Feb-22	08-Mar-22	0%	10	\$4,343	Karen White																								
<b>P04 Ring Systems</b>		<b>03-Oct-16 A</b>	<b>11-Feb-25</b>	<b>03-Oct-16</b>	<b>11-Feb-25</b>		<b>908</b>	<b>\$13,370,489</b>																									
<b>P04.01 Management and System Integration - Ring Systems</b>		<b>03-Oct-16 A</b>	<b>11-Feb-25</b>	<b>03-Oct-16</b>	<b>11-Feb-25</b>		<b>908</b>	<b>\$677,762</b>																									
P04PDC	P.4 Preliminary Designs Complete for CD-2 (Excludes PDRs for New Primary and New Secondary Foil Mechanism, BPLS, PPS)		01-Apr-20 A		01-Apr-20	100%	0	\$0	Nick Evans																								



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P412MS001	Ring System Preliminary Design Review Meeting - Completed		12-Mar-19 A		12-Mar-19	100%	0	\$0	Nick Evans															
P412D150	Incorporate Comments from Ring System Preliminary Design Review Meeting	13-Mar-19 A	15-Mar-19 A	13-Mar-19	15-Mar-19	100%	0	\$0	Nick Evans															
P412D160	Archive Ring System Preliminary Design Review Meeting Data and Enter Recommendations into Tracking System		15-Mar-19 A		15-Mar-19	100%	0	\$0	Nick Evans															
P04.01.02.01.02 Ring System Final Design Review		06-Oct-20 A	06-Oct-20 A	06-Oct-20	06-Oct-20		0	\$0																
P412D363	Release to Begin Purchasing - Ring Systems (CD2/3 Approved)	06-Oct-20 A		06-Oct-20		100%	0	\$0	Nick Evans															
P04.02 Injection Region		03-Oct-16 A	13-Jul-23	03-Oct-16	13-Jul-23		523	\$5,345,061																
P42MS007	Injection region magnets on site		13-Dec-22		13-Dec-22	0%	0	\$0	Robert Saethre															
P0402IT02	P.04.02 Injection Region - Integrated System Testing for Phase 2 Complete		29-Jun-23		29-Jun-23	0%	0	\$0	Robert Saethre															
P0402DOC2	P.04.02 Injection Region - Documentation for ARR for Phase 2 Complete		13-Jul-23		13-Jul-23	0%	0	\$0	Robert Saethre															
P04.02.01 Management and System Integration		03-Oct-16 A	13-Jul-23	03-Oct-16	13-Jul-23		523	\$197,334																
P04.02.01.01 Management and System Integration - Injection Region - (NEP42110)		03-Oct-16 A	13-Jul-23	03-Oct-16	13-Jul-23		523	\$197,334																
P421M1	WBS P.4.2 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre															
P421M46M	WBS P.4.2 Management FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre															
P421M6	WBS P.4.2 Management FY18 (May through Sept)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre															
P421M55	WBS P.4.2 Management FY19 (LOE) - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Robert Saethre															
P421M15	WBS P.4.2 Management FY19 (LOE) - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre															
P421M15C	WBS P.4.2 Management FY19 (LOE) - Part C	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Robert Saethre															
P421M20	WBS P.4.2 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Robert Saethre															
P421M20B	WBS P.4.2 Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Robert Saethre															
P421M25	WBS P.4.2 Management FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Robert Saethre															
P421M65	WBS P.4.2 Management FY21 (LOE) - continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$42,955	Robert Saethre															
P421M30	WBS P.4.2 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$72,648	Robert Saethre															
P421M35	WBS P.4.2 Management FY23 (LOE)	03-Oct-22	28-Jun-23	03-Oct-22	28-Jun-23	0%	181	\$56,669	Robert Saethre															
P421MDOC2	P.04.02 Injection Region - Compile Documentation for IRR/ERR Phase 2 (LOE)	14-Jun-23	13-Jul-23	14-Jun-23	13-Jul-23	0%	20	\$25,062	Robert Saethre															
P04.02.01.01.01 Magnets - CAM Management		03-Oct-16 A	28-Sep-18 A	03-Oct-16	28-Sep-18		0	\$0																
P422M1	CAM management FY17 - Magnets P.04.02.02	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre															
P422M46M	CAM management FY18 (Oct through Apr) - Magnets P.04.02.02	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre															
P422M6	CAM management FY18 (May through Sept) - Magnets P.04.02.02	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre															
P04.02.01.01.02 Power Supplies - CAM Management		03-Oct-16 A	28-Sep-18 A	03-Oct-16	28-Sep-18		0	\$0																
P423M1	CAM management FY17 - Power Supplies P.04.02.03	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre															
P423M41M	CAM management FY18 (Oct through Apr) - Power Supplies P.04.02.03	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre															
P423M6	CAM management FY18 (May through Sept) - Power Supplies P.04.02.03	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre															
P04.02.01.01.03 Vacuum Systems - CAM Management		03-Oct-16 A	28-Sep-18 A	03-Oct-16	28-Sep-18		0	\$0																

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Performance																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P424M1	CAM management FY17 - Vacuum Systems P.04.02.04	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre																												
P424M41M	CAM management FY18 (Oct through Apr) - Vacuum Systems P.04.02.04	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre																												
P424M6	CAM management FY18 (May through Sept) - Vacuum Systems P.04.02.04	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre																												
<b>P04.02.01.01.04 Primary and Secondary Stripper Foil Mechanisms - CAM Management</b>		03-Oct-16 A	28-Sep-18 A	03-Oct-16	28-Sep-18		0	\$0																													
P425M1	CAM management FY17 - Primary and Secondary Stripper Foil Mechanism P.04.02.05	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre																												
P425M126M	CAM management FY18 (Oct through Apr) - Primary and Secondary Stripper Foil Mechanism P.04.02.05	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre																												
P425M6	CAM management FY18 (May through Sept) - Primary and Secondary Stripper Foil Mechanism P.04.02.05	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre																												
<b>P04.02.02 Injection Region Magnets</b>		10-Jan-17 A	29-Jun-23	10-Jan-17	29-Jun-23		515	\$3,466,847																													
P422MS003	Chicane and Injection Dump Septum Magnets Preliminary Design Review Meeting - Completed		11-Feb-19 A		11-Feb-19	100%	0	\$0	Robert Saethre																												
P422MS91	Injection Region Magnets - Final Design Review Meeting - Completed		18-Sep-20 A		18-Sep-20	100%	0	\$0	Robert Saethre																												
P422MS001	Injection region magnets delivered		13-Dec-22		13-Dec-22	0%	0	\$0	Robert Saethre																												
<b>P04.02.02.02 Design - Injection Region Magnets - (NEP42220)</b>		10-Jan-17 A	30-Mar-22	10-Jan-17	25-Feb-22		205	\$300,311																													
P422PMS90	Injection Region Design Start	01-Aug-18 A		01-Aug-18		100%	0	\$0	Robert Saethre																												
P422D330	Prepare Cost and Schedule for Injection Region Magnets - FNAL	11-Feb-19 A	29-Mar-19 A	11-Feb-19	29-Mar-19	100%	0	\$0	Robert Saethre																												
P422D340	Prepare Broad Cost Range for Injection Region Magnets - FNAL	11-Feb-19 A	29-Mar-19 A	11-Feb-19	29-Mar-19	100%	0	\$0	Robert Saethre																												
P422D145	Preliminary design review for Chicane and injection dump septum magnets	11-Feb-19 A	11-Feb-19 A	11-Feb-19	11-Feb-19	100%	0	\$0	Robert Saethre																												
P422D310	Modification to FNAL Contract for Final Magnet Design	03-Jun-19 A	31-Jul-19 A	03-Jun-19	31-Jul-19	100%	0	\$0	Robert Saethre																												
P422D130	Prepare PDR for Injection Dump Quadrupole Magnet and Power Supply	17-Feb-20 A	12-Mar-20 A	17-Feb-20	12-Mar-20	100%	0	\$0	Robert Saethre																												
P422D420	Design Review for Updated Chicane (Final) and Injection Dump Septum (Preliminary) Magnet Design	25-Feb-20 A	25-Feb-20 A	25-Feb-20	25-Feb-20	100%	0	\$0	Robert Saethre																												
P422D150	Preliminary Design Review for Injection Dump Quadrupole Magnet and Power Supply	13-Mar-20 A	13-Mar-20 A	13-Mar-20	13-Mar-20	100%	0	\$0	Robert Saethre																												
P422D423	Prepare FDR for Injection Dump Quadrupole Magnet and Power Supply	01-Jul-20 A	17-Jul-20 A	01-Jul-20	17-Jul-20	100%	0	\$0	Robert Saethre																												
P422D155	Final Design Review for Injection Dump Quadrupole Magnet and Power Supply	20-Jul-20 A	20-Jul-20 A	20-Jul-20	20-Jul-20	100%	0	\$0	Robert Saethre																												
P422D91	Final Design Review Injection Dump Septum Magnets (Zoom meeting)	18-Sep-20 A	18-Sep-20 A	18-Sep-20	18-Sep-20	100%	0	\$0	Robert Saethre																												
<b>P04.02.02.02.01 Accelerator Physics</b>		10-Jan-17 A	30-Oct-20 A	10-Jan-17	30-Oct-20		0	\$0																													
P422D190A	Physics specifications for the injection dump septum magnet	10-Jan-17 A	30-Apr-18 A	10-Jan-17	30-Apr-18	100%	0	\$0	Robert Saethre																												
P422D185A	Develop benchmarked optics model of the injection dump beam line	10-Jan-17 A	30-Apr-18 A	10-Jan-17	30-Apr-18	100%	0	\$0	Robert Saethre																												
P422D185B	Develop benchmarked optics model of the injection dump beam line - Continued Part 2	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre																												
P422D190B	Physics specifications for the injection dump septum magnet - Continued	01-May-18 A	23-Jul-18 A	01-May-18	23-Jul-18	100%	0	\$0	Robert Saethre																												
P422D195	Physics design of the injection dump beam line with an additional quadrupole magnet - Part 1	14-Sep-18 A	28-Sep-18 A	14-Sep-18	28-Sep-18	100%	0	\$0	Robert Saethre																												
P422D185C	Develop benchmarked optics model of the injection dump beam line - Continued Part 3	01-Oct-18 A	01-Oct-18 A	01-Oct-18	01-Oct-18	100%	0	\$0	Robert Saethre																												
P422D195B	Physics design of the injection dump beam line with an additional quadrupole magnet - Continued	01-Oct-18 A	17-Dec-18 A	01-Oct-18	17-Dec-18	100%	0	\$0	Robert Saethre																												
P422MS120	Injection Dump Quadrupole Magnet Required Decision - Completed		17-Dec-18 A		17-Dec-18	100%	0	\$0	Robert Saethre																												
P422D200	Physics specifications for the injection dump additional quadrupole magnet - Part A	19-Feb-19 A	31-Mar-19 A	19-Feb-19	31-Mar-19	100%	0	\$0	Robert Saethre																												



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P422D215	Optimize beam diagnostics locations and specify any new beam diagnostics -Part A	19-Feb-19 A	31-Mar-19 A	19-Feb-19	31-Mar-19	100%	0	\$0	Robert Saethre															
P422D61	Particle tracking of injected, ring, and waste beams through chicane and septum magnets -Part A	21-Feb-19 A	31-Mar-19 A	21-Feb-19	31-Mar-19	100%	0	\$0	Robert Saethre															
P422D81	Check that the 1.3 GeV design works at lower energies also	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	Robert Saethre															
P422D215B	Optimize beam diagnostics locations and specify any new beam diagnostics - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre															
P422D61B	Particle tracking of injected, ring, and waste beams through chicane and septum magnets - Part B	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Robert Saethre															
P422D200B	Physics specifications for the injection dump additional quadrupole magnet - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre															
P422D76	Convoy electron tracking - Foil Hits	15-Nov-19 A	28-Feb-20 A	15-Nov-19	28-Feb-20	100%	0	\$0	Robert Saethre															
P422D61B10	Particle tracking of injected, ring, and waste beams through chicane and septum magnets - Part C	15-Nov-19 A	28-Feb-20 A	15-Nov-19	28-Feb-20	100%	0	\$0	Robert Saethre															
P422D433	Injection Dump Tracking Revisions	01-Apr-20 A	14-May-20 A	01-Apr-20	14-May-20	100%	0	\$0	Robert Saethre															
P422D200C	Physics specifications for the injection dump additional quadrupole magnet - Part C	04-May-20 A	30-Jun-20 A	04-May-20	30-Jun-20	100%	0	\$0	Robert Saethre															
P422D215C	Optimize beam diagnostics locations and specify any new beam diagnostics - Part C	17-Jun-20 A	20-Jul-20 A	17-Jun-20	20-Jul-20	100%	0	\$0	Robert Saethre															
P422D77	Convoy electron tracking - Catcher/Chamber Design	17-Jun-20 A	28-Aug-20 A	17-Jun-20	28-Aug-20	100%	0	\$0	Robert Saethre															
P422D483	Convoy electron tracking - Catcher Optimization	31-Aug-20 A	30-Oct-20 A	31-Aug-20	30-Oct-20	100%	0	\$0	Robert Saethre															
<b>P04.02.02.02 Chicane 1 Magnet</b>		<b>27-Jan-22</b>	<b>30-Mar-22</b>	<b>04-Aug-21</b>	<b>25-Feb-22</b>		<b>45</b>	<b>\$36,541</b>																
P422D463	Update Installation Assembly for Chicane 4 Magnet to Include Secondary Foil Changer	27-Jan-22	02-Feb-22	21-Feb-22	25-Feb-22	0%	5	\$13,177	Robert Saethre															
P422D473	Prepare Installation Zone CAD Assemblies	03-Mar-22	30-Mar-22	04-Aug-21	31-Aug-21	0%	20	\$23,365	Robert Saethre															
<b>P04.02.02.02.03 Chicane 2/3 Magnet</b>		<b>01-Aug-18 A</b>	<b>26-Jan-22</b>	<b>01-Aug-18</b>	<b>18-Feb-22</b>		<b>160</b>	<b>\$126,684</b>																
P422D111	Design Chicane 2 magnet support stand to Preliminary Design level	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Robert Saethre															
P422D46	Design and model Chicane 2 dipole magnets to Preliminary Design level FNAL - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Robert Saethre															
P422D46B	Design and model Chicane 2 dipole magnets to Preliminary Design level FNAL - Continued	01-Oct-18 A	11-Feb-19 A	01-Oct-18	11-Feb-19	100%	0	\$0	Robert Saethre															
P422D111B	Design Chicane 2/Chicane 3 magnet support stand to Preliminary Design level - Continued	01-Oct-18 A	15-Feb-19 A	01-Oct-18	15-Feb-19	100%	0	\$0	Robert Saethre															
P422DMS01	Provide 3D Magnet Fields to SNS for Chicane 2 Magnet FNAL		11-Feb-19 A		11-Feb-19	100%	0	\$0	Robert Saethre															
P422DMS001	3D preliminary design for the ring chicane magnets complete		11-Feb-19 A		11-Feb-19	100%	0	\$0	Robert Saethre															
P422D106	SNS support of vendor mechanical design to validate design interfaces for Chicane 2/Chicane 3	03-Sep-19 A	31-Mar-20 A	03-Sep-19	31-Mar-20	100%	0	\$0	Robert Saethre															
P422D210	Design and model Chicane 2/Chicane 3 dipole magnets to Final Design level FNAL	03-Sep-19 A	25-Feb-20 A	03-Sep-19	25-Feb-20	100%	0	\$0	Robert Saethre															
P422D213	Finalize Chicane 2/Chicane 3 Dipole Magnets Tooling Drawings and Calcs FNAL	26-Feb-20 A	31-Mar-20 A	26-Feb-20	31-Mar-20	100%	0	\$0	Robert Saethre															
P422D115	Design Chicane 2/Chicane 3 Magnet Support Stand to Final Design (90%) level	02-Mar-20 A	31-Mar-20 A	02-Mar-20	31-Mar-20	100%	0	\$0	Robert Saethre															
P422D213B	Finalize Chicane 2/Chicane 3 Dipole Magnets Tooling Drawings and Calcs FNAL - Continued	01-Apr-20 A	14-Aug-20 A	01-Apr-20	14-Aug-20	100%	0	\$0	Robert Saethre															
P422D115B	Design Chicane 2/Chicane 3 Magnet Support Stand to Final Design (90%) level - Continued	20-Apr-20 A	14-May-20 A	20-Apr-20	14-May-20	100%	0	\$0	Robert Saethre															
P422D213B10	Prepare Chicane 2/Chicane 3 Dipole Magnets - Magnet Measurement Design	17-Aug-20 A	31-Oct-20 A	17-Aug-20	31-Oct-20	100%	0	\$0	Robert Saethre															
P422D213B10b	Prepare Chicane 2/Chicane 3 Dipole Magnets - Magnet Measurement Design - continued	02-Nov-20 A	30-Jul-21	02-Nov-20	29-Jan-21	95%	43	\$115,154	Robert Saethre															
P422D453	Update Installation Assembly for Chicane 2/3 to Include Primary Foil Chamber	20-Jan-22	26-Jan-22	14-Feb-22	18-Feb-22	0%	5	\$11,530	Robert Saethre															
<b>P04.02.02.02.04 Chicane 3 Magnet</b>		<b>01-Aug-18 A</b>	<b>11-Feb-19 A</b>	<b>01-Aug-18</b>	<b>11-Feb-19</b>		<b>0</b>	<b>\$0</b>																





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P422P-F	Chicane Steel - Vendor Activity	23-Jul-21	29-Oct-21	23-Jul-21	29-Oct-21	0%	70	\$0	Robert Saethre															
P422P-F	Chicane Steel - Receive	29-Oct-21	29-Oct-21	29-Oct-21	29-Oct-21	0%	1	\$117,000	Robert Saethre															
P422P-F	Chicane Steel - Inspection	01-Nov-21	29-Nov-21	01-Nov-21	29-Nov-21	0%	19	\$1,437	Robert Saethre															
P04.02.02.03.01.01.01.02	Chicane Fabrication Materials - Conductor	13-May-21 A	19-Nov-21	13-May-21	12-Nov-21		122	\$27,917																
P422P-F	Chicane Conductor - Process Requisition	13-May-21 A	17-Jun-21	13-May-21	10-Jun-21	50%	13	\$1,453	Robert Saethre															
P422P-F	Chicane Conductor - Vendor Response	18-Jun-21	01-Jul-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre															
P422P-F	Chicane Conductor - Place Order	02-Jul-21	29-Jul-21	25-Jun-21	22-Jul-21	0%	19	\$0	Robert Saethre															
P422P-F	Chicane Conductor - Vendor Activity	30-Jul-21	05-Nov-21	23-Jul-21	29-Oct-21	0%	70	\$0	Robert Saethre															
P422P-F	Chicane Conductor - Receive	05-Nov-21	05-Nov-21	29-Oct-21	29-Oct-21	0%	1	\$25,027	Robert Saethre															
P422P-F	Chicane Conductor - Inspection	08-Nov-21	19-Nov-21	01-Nov-21	12-Nov-21	0%	10	\$1,437	Robert Saethre															
P04.02.02.03.01.01.01.03	Chicane Fabrication Materials - Glass Tape	28-Jun-21	16-Nov-21	13-May-21	01-Oct-21		100	\$18,890																
P422P-F	Chicane Glass Tape - Process Requisition	28-Jun-21*	26-Jul-21	13-May-21	10-Jun-21	0%	20	\$1,453	Robert Saethre															
P422P-F	Chicane Glass Tape - Vendor Response	27-Jul-21	09-Aug-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre															
P422P-F	Chicane Glass Tape - Place Order	10-Aug-21	07-Sep-21	25-Jun-21	22-Jul-21	0%	20	\$0	Robert Saethre															
P422P-F	Chicane Glass Tape - Vendor Activity	08-Sep-21	02-Nov-21	23-Jul-21	17-Sep-21	0%	40	\$0	Robert Saethre															
P422P-F	Chicane Glass Tape - Receive	02-Nov-21	02-Nov-21	17-Sep-21	17-Sep-21	0%	1	\$16,000	Robert Saethre															
P422P-F	Chicane Glass Tape - Inspection	03-Nov-21	16-Nov-21	20-Sep-21	01-Oct-21	0%	10	\$1,437	Robert Saethre															
P04.02.02.03.01.01.01.04	Chicane Fabrication Materials - Winding Tooling	13-May-21 A	20-Sep-21	13-May-21	17-Sep-21		78	\$19,233																
P422P-F	Chicane Winding Tooling - Process Requisition	13-May-21 A	26-May-21 A	13-May-21	26-May-21	100%	0	\$1,453	Robert Saethre															
P422P-F	Chicane Winding Tooling - Vendor Response	27-May-21 A	10-Jun-21	27-May-21	10-Jun-21	25%	8	\$0	Robert Saethre															
P422P-F	Chicane Winding Tooling - Place Order	11-Jun-21	24-Jun-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre															
P422P-F	Chicane Winding Tooling - Vendor Activity	25-Jun-21	20-Aug-21	25-Jun-21	19-Aug-21	0%	40	\$0	Robert Saethre															
P422P-F	Chicane Winding Tooling - Receive	20-Aug-21	20-Aug-21	19-Aug-21	19-Aug-21	0%	1	\$15,000	Robert Saethre															
P422P-F	Chicane Winding Tooling - Inspection	23-Aug-21	20-Sep-21	20-Aug-21	17-Sep-21	0%	20	\$2,780	Robert Saethre															
P04.02.02.03.01.01.01.05	Chicane Fabrication Materials - Potting Tooling	13-May-21 A	29-Nov-21	13-May-21	29-Nov-21		126	\$32,201																
P422P-F	Chicane Potting Tooling - Process Requisition	13-May-21 A	26-May-21 A	13-May-21	26-May-21	100%	0	\$1,453	Robert Saethre															
P422P-F	Chicane Potting Tooling - Vendor Response	27-May-21 A	24-Jun-21	27-May-21	24-Jun-21	10%	18	\$0	Robert Saethre															
P422P-F	Chicane Potting Tooling - Place Order	25-Jun-21	05-Aug-21	25-Jun-21	05-Aug-21	0%	29	\$0	Robert Saethre															
P422P-F	Chicane Potting Tooling - Vendor Activity	06-Aug-21	29-Oct-21	06-Aug-21	29-Oct-21	0%	60	\$0	Robert Saethre															
P422P-F	Chicane Potting Tooling - Receive	29-Oct-21	29-Oct-21	29-Oct-21	29-Oct-21	0%	1	\$25,000	Robert Saethre															
P422P-F	Chicane Potting Tooling - Inspection	01-Nov-21	29-Nov-21	01-Nov-21	29-Nov-21	0%	19	\$5,748	Robert Saethre															
P04.02.02.03.01.01.01.06	Chicane Fabrication Materials - Core Machining	09-Jul-21	10-Mar-22	09-Jul-21	10-Mar-22		164	\$107,320																
P422P-F	Chicane Core Machining - Process Requisition	09-Jul-21*	05-Aug-21	09-Jul-21	05-Aug-21	0%	20	\$1,453	Robert Saethre															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P422P-F	Chicane Core Machining - Vendor Response	06-Aug-21	02-Sep-21	06-Aug-21	02-Sep-21	0%	20	\$0	Robert Saethre																	
P422P-F	Chicane Core Machining - Place Order	03-Sep-21	01-Oct-21	03-Sep-21	01-Oct-21	0%	20	\$0	Robert Saethre																	
P422P-F	Chicane Core Machining - Vendor Activity	30-Nov-21	10-Feb-22	30-Nov-21	10-Feb-22	0%	45	\$0	Robert Saethre																	
P422P-F	Chicane Core Machining - Receive	10-Feb-22	10-Feb-22	10-Feb-22	10-Feb-22	0%	1	\$80,000	Robert Saethre																	
P422P-F	Chicane Core Machining - Inspection	11-Feb-22	10-Mar-22	11-Feb-22	10-Mar-22	0%	20	\$25,867	Robert Saethre																	
<b>P04.02.02.03.01.01.01.07 Chicane Fabrication Materials - Other Components</b>		09-Jul-21	26-Sep-22	09-Jul-21	26-Sep-22		302	\$35,104																		
P422P-F	Chicane Other Components - Procure Manifolding, Hardward, Other M&S	09-Jul-21	10-Feb-22	09-Jul-21	10-Feb-22	0%	144	\$24,077	Robert Saethre																	
P422P-F	Chicane Other Components - Procure Epoxy and Other Consumables	26-Jan-22	26-Sep-22	26-Jan-22	26-Sep-22	0%	170	\$11,027	Robert Saethre																	
<b>P04.02.02.03.01.01.02 Chicane Fabrication</b>		22-Nov-21	26-Sep-22	15-Nov-21	26-Sep-22		207	\$373,650																		
P422P-FC2	Chicane Fab - Coil Winding (first three pancakes)	22-Nov-21	20-Dec-21	15-Nov-21	13-Dec-21	0%	19	\$37,515	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil Prep (first three pancakes)	07-Dec-21*	22-Dec-21	07-Dec-21	22-Dec-21	0%	12	\$10,838	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil Insulating (first coil)	17-Dec-21*	03-Jan-22	17-Dec-21	03-Jan-22	0%	5	\$8,337	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil Winding (six more pancakes)	21-Dec-21	03-Feb-22	14-Dec-21	27-Jan-22	0%	25	\$50,021	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil Vacuum Impreg (first coil)	04-Jan-22	25-Jan-22	04-Jan-22	25-Jan-22	0%	15	\$25,010	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil and Tooling Clean-Up (first coil)	26-Jan-22	01-Feb-22	26-Jan-22	01-Feb-22	0%	5	\$4,168	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil Prep (two more coils)	04-Feb-22	02-Mar-22	28-Jan-22	23-Feb-22	0%	19	\$16,674	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil Insulating (two more coils)	10-Mar-22*	30-Mar-22	10-Mar-22	30-Mar-22	0%	15	\$12,505	Robert Saethre																	
P422P-FC2	Chicane Fab - Dry Fit Assembly (first magnet)	11-Mar-22	31-Mar-22	11-Mar-22	31-Mar-22	0%	15	\$27,884	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil Vacuum Impreg (two more coils)	31-Mar-22	20-Apr-22	31-Mar-22	20-Apr-22	0%	14	\$12,505	Robert Saethre																	
P422P-FC2	Chicane Fab - Final Assembly (first magnet)	01-Apr-22	08-Apr-22	01-Apr-22	08-Apr-22	0%	6	\$47,942	Robert Saethre																	
P422P-FC2	Chicane Fab - Manifolding (first magnet)	11-Apr-22	29-Apr-22	11-Apr-22	29-Apr-22	0%	14	\$30,759	Robert Saethre																	
P422P-FC2	Chicane Fab - Coil and Tooling Clean-Up (two more coils)	21-Apr-22	11-May-22	21-Apr-22	11-May-22	0%	15	\$12,505	Robert Saethre																	
P422P-FC2	Chicane Fab - Dry Fit Assembly (two more magnets)	12-May-22	09-Jun-22	12-May-22	09-Jun-22	0%	20	\$33,347	Robert Saethre																	
P422P-FC2	Chicane Fab - Hold Point for First Chicane Measurements		05-Aug-22*		05-Aug-22	0%	0	\$0	Robert Saethre																	
P422P-FC2	Chicane Fab - Final Assembly (two more magnets)	08-Aug-22	19-Aug-22	08-Aug-22	19-Aug-22	0%	10	\$22,089	Robert Saethre																	
P422P-FC2	Chicane Fab - Manifolding (two more magnets)	22-Aug-22	26-Sep-22	22-Aug-22	26-Sep-22	0%	25	\$21,551	Robert Saethre																	
<b>P04.02.02.03.01.01.03 Chicane Magnetic Measurements</b>		02-May-22	23-Nov-22	02-May-22	23-Nov-22		145	\$190,478																		
P422P-FC2	Chicane Magnet Meas - Mount First Chicane Magnet	02-May-22	06-May-22	02-May-22	06-May-22	0%	5	\$38,314	Robert Saethre																	
P422P-FC2	Chicane Magnet Meas - Measure First Chicane Magnet	22-Jun-22*	03-Aug-22	24-Jun-22	05-Aug-22	0%	30	\$43,178	Robert Saethre																	
P422P-FC3	Chicane Magnet Meas - Measure Second Chicane Magnet	16-Sep-22*	06-Oct-22	16-Sep-22	06-Oct-22	0%	15	\$27,735	Robert Saethre																	
P422P-FC3	Chicane Magnet Meas - Measure First and Second Chicane Magnet Together	07-Oct-22	03-Nov-22	07-Oct-22	03-Nov-22	0%	20	\$53,516	Robert Saethre																	
P422P-FC3	Chicane Magnet Meas - Measure Third Chicane Magnet	04-Nov-22	23-Nov-22	04-Nov-22	23-Nov-22	0%	14	\$27,735	Robert Saethre																	
<b>P04.02.02.03.01.01.04 Chicane - Crate and Ship</b>		28-Nov-22	13-Dec-22	28-Nov-22	13-Dec-22		12	\$11,034																		

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016 - FY2028																											
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P422P-FC3	Chicane Crate and Ship - Documentation Review	28-Nov-22	02-Dec-22	28-Nov-22	02-Dec-22	0%	5	\$0	Robert Saethre																												
P422P-FC3	Chicane Crate and Ship - Magnets and Tooling	28-Nov-22	06-Dec-22	28-Nov-22	06-Dec-22	0%	7	\$6,034	Robert Saethre																												
P422P-FC3	Chicane Transport	07-Dec-22	13-Dec-22	07-Dec-22	13-Dec-22	0%	5	\$5,000	Robert Saethre																												
P04.02.02.03.01.03 Injection Dump Septum Magnet		13-May-21 A	29-Sep-22	13-May-21	29-Sep-22		332	\$997,749																													
P422P-FD001	Fermi - Dump Dipole Magnet Fabrication Oversight (LOE)	13-May-21 A	29-Sep-22	13-May-21	29-Sep-22	3.49%	332	\$253,337	Robert Saethre																												
P422P141	Receive Injection Dump Septum Magnet	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	0%	1	\$0	Robert Saethre																												
P04.02.02.03.01.03.01 Dump Dipole Fabrication - Procure Materials		13-May-21 A	31-Aug-22	13-May-21	31-Aug-22		312	\$388,068																													
P422P-FD1	Dump Dipole Traveler Refinement	03-Jan-22*	27-Jan-22	03-Jan-22	27-Jan-22	0%	18	\$21,556	Robert Saethre																												
P422P-FD1	Dump Dipole Tooling Set-Up	28-Jan-22	03-Feb-22	28-Jan-22	03-Feb-22	0%	5	\$4,168	Robert Saethre																												
P422P-FD2	Dump Dipole Production Readiness Review	04-Feb-22	04-Feb-22	04-Feb-22	04-Feb-22	0%	1	\$0	Robert Saethre																												
P04.02.02.03.01.03.01.01 Dump Dipole Fabrication Materials - Steel		13-May-21 A	20-Dec-21	13-May-21	20-Dec-21		141	\$63,181																													
P422P-F	Dump Dipole Steel - Process Requisition	13-May-21 A	10-Jun-21	13-May-21	10-Jun-21	55%	8	\$1,743	Robert Saethre																												
P422P-F	Dump Dipole Steel - Vendor Response	11-Jun-21	24-Jun-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre																												
P422P-F	Dump Dipole Steel - Place Order	25-Jun-21	22-Jul-21	25-Jun-21	22-Jul-21	0%	19	\$0	Robert Saethre																												
P422P-F	Dump Dipole Steel - Vendor Activity	23-Jul-21	19-Nov-21	23-Jul-21	19-Nov-21	0%	85	\$0	Robert Saethre																												
P422P-F	Dump Dipole Steel - Receive	19-Nov-21	19-Nov-21	19-Nov-21	19-Nov-21	0%	1	\$60,000	Robert Saethre																												
P422P-F	Dump Dipole Steel - Inspection	22-Nov-21	20-Dec-21	22-Nov-21	20-Dec-21	0%	19	\$1,437	Robert Saethre																												
P04.02.02.03.01.03.01.02 Dump Dipole Fabrication Materials - Conductor		13-May-21 A	19-Nov-21	13-May-21	12-Nov-21		122	\$13,181																													
P422P-F	Dump Dipole Conductor - Process Requisition	13-May-21 A	17-Jun-21	13-May-21	10-Jun-21	50%	13	\$1,743	Robert Saethre																												
P422P-F	Dump Dipole Conductor - Vendor Response	18-Jun-21	01-Jul-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre																												
P422P-F	Dump Dipole Conductor - Place Order	02-Jul-21	29-Jul-21	25-Jun-21	22-Jul-21	0%	19	\$0	Robert Saethre																												
P422P-F	Dump Dipole Conductor - Vendor Activity	30-Jul-21	05-Nov-21	23-Jul-21	29-Oct-21	0%	70	\$0	Robert Saethre																												
P422P-F	Dump Dipole Conductor - Receive	05-Nov-21	05-Nov-21	29-Oct-21	29-Oct-21	0%	1	\$10,000	Robert Saethre																												
P422P-F	Dump Dipole Conductor - Inspection	08-Nov-21	19-Nov-21	01-Nov-21	12-Nov-21	0%	10	\$1,437	Robert Saethre																												
P04.02.02.03.01.03.01.03 Dump Dipole Fabrication Materials - Glass Tape		28-Jun-21	15-Nov-21	13-May-21	01-Oct-21		99	\$20,187																													
P422P-F	Dump Dipole Glass Tape - Process Requisition	28-Jun-21	26-Jul-21	13-May-21	10-Jun-21	0%	20	\$1,749	Robert Saethre																												
P422P-F	Dump Dipole Glass Tape - Vendor Response	27-Jul-21	09-Aug-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre																												
P422P-F	Dump Dipole Glass Tape - Place Order	10-Aug-21	03-Sep-21	25-Jun-21	22-Jul-21	0%	19	\$0	Robert Saethre																												
P422P-F	Dump Dipole Glass Tape - Vendor Activity	07-Sep-21	01-Nov-21	23-Jul-21	17-Sep-21	0%	40	\$0	Robert Saethre																												
P422P-F	Dump Dipole Glass Tape - Receive	01-Nov-21	01-Nov-21	17-Sep-21	17-Sep-21	0%	1	\$17,000	Robert Saethre																												
P422P-F	Dump Dipole Glass Tape - Inspection	02-Nov-21	15-Nov-21	20-Sep-21	01-Oct-21	0%	10	\$1,437	Robert Saethre																												
P04.02.02.03.01.03.01.04 Dump Dipole Fabrication Materials - Winding Tooling		13-May-21 A	17-Sep-21	13-May-21	17-Sep-21		77	\$30,523																													
P422P-F	Dump Dipole Winding Tooling - Process Requisition	13-May-21 A	26-May-21 A	13-May-21	26-May-21	100%	0	\$1,743	Robert Saethre																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P422P-F	Dump Dipole Winding Tooling - Vendor Response	27-May-21 A	10-Jun-21	27-May-21	10-Jun-21	25%	8	\$0	Robert Saethre															
P422P-F	Dump Dipole Winding Tooling - Place Order	11-Jun-21	24-Jun-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre															
P422P-F	Dump Dipole Winding Tooling - Vendor Activity	25-Jun-21	19-Aug-21	25-Jun-21	19-Aug-21	0%	39	\$0	Robert Saethre															
P422P-F	Dump Dipole Winding Tooling - Receive	19-Aug-21	19-Aug-21	19-Aug-21	19-Aug-21	0%	1	\$26,000	Robert Saethre															
P422P-F	Dump Dipole Winding Tooling - Inspection	20-Aug-21	17-Sep-21	20-Aug-21	17-Sep-21	0%	20	\$2,780	Robert Saethre															
<b>P04.02.02.03.01.03.01.05 Dump Dipole Fabrication Materials - Potting Tooling</b>		<b>13-May-21 A</b>	<b>29-Nov-21</b>	<b>13-May-21</b>	<b>29-Nov-21</b>		<b>126</b>	<b>\$62,366</b>																
P422P-F	Dump Dipole Potting Tooling - Process Requisition	13-May-21 A	26-May-21 A	13-May-21	26-May-21	100%	0	\$1,743	Robert Saethre															
P422P-F	Dump Dipole Potting Tooling - Vendor Response	27-May-21 A	24-Jun-21	27-May-21	24-Jun-21	10%	18	\$0	Robert Saethre															
P422P-F	Dump Dipole Potting Tooling - Place Order	25-Jun-21	05-Aug-21	25-Jun-21	05-Aug-21	0%	29	\$0	Robert Saethre															
P422P-F	Dump Dipole Potting Tooling - Vendor Activity	06-Aug-21	29-Oct-21	06-Aug-21	29-Oct-21	0%	60	\$0	Robert Saethre															
P422P-F	Dump Dipole Potting Tooling - Receive	29-Oct-21	29-Oct-21	29-Oct-21	29-Oct-21	0%	1	\$52,000	Robert Saethre															
P422P-F	Dump Dipole Potting Tooling - Inspection	01-Nov-21	29-Nov-21	01-Nov-21	29-Nov-21	0%	19	\$8,622	Robert Saethre															
<b>P04.02.02.03.01.03.01.06 Dump Dipole Fabrication Materials - Core Machining</b>		<b>09-Jul-21</b>	<b>31-Mar-22</b>	<b>09-Jul-21</b>	<b>31-Mar-22</b>		<b>179</b>	<b>\$137,444</b>																
P422P-F	Dump Dipole Core Machining - Process Requisition	09-Jul-21*	05-Aug-21	09-Jul-21	05-Aug-21	0%	20	\$2,325	Robert Saethre															
P422P-F	Dump Dipole Core Machining - Vendor Response	06-Aug-21	02-Sep-21	06-Aug-21	02-Sep-21	0%	20	\$0	Robert Saethre															
P422P-F	Dump Dipole Core Machining - Place Order	03-Sep-21	01-Oct-21	03-Sep-21	01-Oct-21	0%	20	\$0	Robert Saethre															
P422P-F	Dump Dipole Core Machining - Vendor Activity	21-Dec-21	03-Mar-22	21-Dec-21	03-Mar-22	0%	45	\$0	Robert Saethre															
P422P-F	Dump Dipole Core Machining - Receive	03-Mar-22	03-Mar-22	03-Mar-22	03-Mar-22	0%	1	\$115,000	Robert Saethre															
P422P-F	Dump Dipole Core Machining - Inspection	04-Mar-22	31-Mar-22	04-Mar-22	31-Mar-22	0%	20	\$20,119	Robert Saethre															
<b>P04.02.02.03.01.03.01.07 Dump Dipole Fabrication Materials - Other Components</b>		<b>09-Jul-21</b>	<b>31-Aug-22</b>	<b>09-Jul-21</b>	<b>31-Aug-22</b>		<b>285</b>	<b>\$35,463</b>																
P422P-F	Dump Dipole Other Components - Procure Manifolding, Hardward, Other M&S	09-Jul-21	10-Feb-22	09-Jul-21	10-Feb-22	0%	144	\$30,513	Robert Saethre															
P422P-F	Dump Dipole Other Components - Procure Epoxy and Other Consumables	04-Apr-22*	31-Aug-22	04-Apr-22	31-Aug-22	0%	105	\$4,950	Robert Saethre															
<b>P04.02.02.03.01.03.02 Dump Dipole Fabrication</b>		<b>07-Feb-22</b>	<b>15-Sep-22</b>	<b>07-Feb-22</b>	<b>15-Sep-22</b>		<b>155</b>	<b>\$239,867</b>																
P422P-FD2	Dump Dipole Fab - Coil Winding (first four pancakes)	07-Feb-22	04-Mar-22	07-Feb-22	04-Mar-22	0%	20	\$34,784	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Coil Prep (first four pancakes)	07-Mar-22	25-Mar-22	07-Mar-22	25-Mar-22	0%	15	\$13,942	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Coil Insulating (first coil)	21-Mar-22*	01-Apr-22	21-Mar-22	01-Apr-22	0%	10	\$9,774	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Coil Vacuum Impreg (first coil)	04-Apr-22	22-Apr-22	04-Apr-22	22-Apr-22	0%	14	\$29,322	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Coil and Tooling Clean-Up (first coil)	25-Apr-22	29-Apr-22	25-Apr-22	29-Apr-22	0%	5	\$4,168	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Coil Insulating (second coil)	25-Apr-22	02-May-22	25-Apr-22	02-May-22	0%	6	\$6,439	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Coil Vacuum Impreg (second coil)	02-May-22	09-May-22	02-May-22	09-May-22	0%	6	\$6,439	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Coil and Tooling Clean-Up (second coil)	10-May-22	16-May-22	10-May-22	16-May-22	0%	5	\$4,168	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Dry Fit Assembly (first magnet)	17-May-22	07-Jun-22	17-May-22	07-Jun-22	0%	15	\$29,322	Robert Saethre															
P422P-FD2	Dump Dipole Fab - Final Assembly (first magnet)	08-Jun-22	21-Jun-22	08-Jun-22	21-Jun-22	0%	10	\$22,023	Robert Saethre															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
	P422P-FD2 Dump Dipole Fab - Manifolding (first magnet)	22-Jun-22	13-Jul-22	22-Jun-22	13-Jul-22	0%	15	\$16,816	Robert Saethre															
	P422P-FD2 Dump Dipole Fab - Coil Winding (four more pancakes)	07-Jul-22*	27-Jul-22	07-Jul-22	27-Jul-22	0%	15	\$26,447	Robert Saethre															
	P422P-FD2 Dump Dipole Fab - Mount Dump Dipole	14-Jul-22	20-Jul-22	14-Jul-22	20-Jul-22	0%	5	\$4,168	Robert Saethre															
	P422P-FD2 Dump Dipole Fab - Coil Insulating (two more coils)	28-Jul-22	10-Aug-22	28-Jul-22	10-Aug-22	0%	10	\$9,774	Robert Saethre															
	P422P-FD2 Dump Dipole Fab - Coil Vacuum Impreg (two more coils)	11-Aug-22	31-Aug-22	11-Aug-22	31-Aug-22	0%	15	\$13,943	Robert Saethre															
	P422P-FD2 Dump Dipole Fab - Coil and Tooling Clean-Up (two more coils)	01-Sep-22	15-Sep-22	01-Sep-22	15-Sep-22	0%	10	\$8,337	Robert Saethre															
	<b>P04.02.02.03.01.03.03 Dump Dipole Magnetic Measurements</b>	<b>18-Aug-22</b>	<b>15-Sep-22</b>	<b>18-Aug-22</b>	<b>15-Sep-22</b>		<b>20</b>	<b>\$103,059</b>																
	P422P-FC3 Dump Dipole Magnet Meas - Measure Dump Dipole Magnet	18-Aug-22	15-Sep-22	18-Aug-22	15-Sep-22	0%	20	\$103,059	Robert Saethre															
	<b>P04.02.02.03.01.03.04 Dump Dipole - Crate and Ship</b>	<b>16-Sep-22</b>	<b>29-Sep-22</b>	<b>16-Sep-22</b>	<b>29-Sep-22</b>		<b>10</b>	<b>\$13,418</b>																
	P422P-FC3 Dump Dipole Crate and Ship - Documentation Review	16-Sep-22	22-Sep-22	16-Sep-22	22-Sep-22	0%	5	\$0	Robert Saethre															
	P422P-FC3 Dump Dipole Crate and Ship - Magnets and Tooling	16-Sep-22	22-Sep-22	16-Sep-22	22-Sep-22	0%	5	\$8,418	Robert Saethre															
	P422P-FC3 Dump Dipole Transport	23-Sep-22	29-Sep-22	23-Sep-22	29-Sep-22	0%	5	\$5,000	Robert Saethre															
	<b>P04.02.02.03.03 PO - Injection Dump Quadrupole Magnet (with Corrector Magnet and Stand)</b>	<b>01-Feb-21 A</b>	<b>19-May-22</b>	<b>01-Feb-21</b>	<b>18-Mar-22</b>		<b>240</b>	<b>\$313,556</b>																
	P422P496 Prepare SOW for Fabrication of Injection Dump Quadrupole Magnet	01-Feb-21 A	21-Apr-21 A	01-Feb-21	26-Feb-21	100%	0	\$16,230	Robert Saethre															
	P422P499 Procurement Readiness Review (PRR) for Fabrication of Injection Dump Quadrupole Magnet	29-Apr-21 A	29-Apr-21 A	01-Mar-21	05-Mar-21	100%	0	\$996	Robert Saethre															
	P422P502 Technical Package to Procurement for Fabrication of Injection Dump Quadrupole Magnet		30-Apr-21 A		05-Mar-21	100%	0	\$0	Robert Saethre															
	P422P505 Procurement Review and Bid for Fabrication of Injection Dump Quadrupole Magnet	03-May-21 A	14-May-21 A	08-Mar-21	26-Mar-21	100%	0	\$923	Robert Saethre															
	P422P508 Issue RFP for Fabrication of Injection Dump Quadrupole Magnet		14-May-21 A		26-Mar-21	100%	0	\$0	Robert Saethre															
	P422P511 Solicitation Period for Fabrication of Injection Dump Quadrupole Magnet	17-May-21 A	28-Jun-21	29-Mar-21	03-May-21	20%	20	\$2,216	Robert Saethre															
	P422P514 Solicitation Complete for Fabrication of Injection Dump Quadrupole Magnet		28-Jun-21		03-May-21	0%	0	\$0	Robert Saethre															
	P422P517 Review and Award Contract for Fabrication of Injection Dump Quadrupole Magnet	29-Jun-21	20-Jul-21	04-May-21	24-May-21	0%	15	\$923	Robert Saethre															
	P422P133 Award Contract for Injection Dump Quadrupole Magnet	20-Jul-21	20-Jul-21	24-May-21	24-May-21	0%	1	\$0	Robert Saethre															
	P422P135 Fabricate Injection Dump Quadrupole Magnet	21-Jul-21	12-May-22	25-May-21	17-Mar-22	0%	200	\$0	Robert Saethre															
	P422P533 Conduct Vendor Surveillance Trip	13-Dec-21	16-Dec-21	15-Oct-21	20-Oct-21	0%	4	\$15,527	Robert Saethre															
	P422P543 Attend Vendor Factory Acceptance Test (FAT)	06-May-22	12-May-22	11-Mar-22	17-Mar-22	0%	5	\$5,400	Robert Saethre															
	P4234IMS6 Fabrication of Injection Dump Quadrupole Magnet Complete		12-May-22		17-Mar-22	0%	0	\$0	Robert Saethre															
	P422P140 Receive Injection Dump Quadrupole Magnet (with Corrector Magnet)	13-May-22	19-May-22	18-Mar-22	18-Mar-22	0%	5	\$271,341	Robert Saethre															
	<b>P04.02.02.03.02 PO - Magnet Support Stands</b>	<b>01-Oct-20 A</b>	<b>19-Oct-22</b>	<b>01-Oct-20</b>	<b>18-Aug-22</b>		<b>106</b>	<b>\$65,828</b>																
	P424P710 Release Drawings and Prepare Fab Package for Magnet Support Stands	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Robert Saethre															
	P424P720 Prepare SOW and Tech Spec for Magnet Support Stands	02-Nov-20 A	13-Nov-20 A	02-Nov-20	13-Nov-20	100%	0	\$3,761	Robert Saethre															
	P422P246 Procure Magnet Support Stands	20-May-22	10-Jun-22	21-Mar-22	08-Apr-22	0%	15	\$481	Robert Saethre															
	<b>P04.02.02.03.02.01 Chicane 2/3 Support Stand</b>	<b>13-Jun-22</b>	<b>19-Oct-22</b>	<b>11-Apr-22</b>	<b>18-Aug-22</b>		<b>91</b>	<b>\$42,510</b>																
	P422P248 Fabricate Chicane 2 / Chicane 3 Magnet Support Stand	13-Jun-22	18-Oct-22	11-Apr-22	17-Aug-22	0%	90	\$0	Robert Saethre															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P422P250	Fabrication of Chicane 2 / Chicane 3 Magnet Support Stand Complete		18-Oct-22		17-Aug-22	0%	0	\$0	Robert Saethre															
P422P253	Receive Chicane 2 / Chicane 3 Magnet Support Stand	19-Oct-22	19-Oct-22	18-Aug-22	18-Aug-22	0%	1	\$42,510	Robert Saethre															
P04.02.02.03.02.02 Injection Dump Septum Support Stand		13-Jun-22	19-Oct-22	11-Apr-22	18-Aug-22		91	\$19,075																
P422P258	Fabricate Injection Dump Septum Magnet Stand	13-Jun-22	18-Oct-22	11-Apr-22	17-Aug-22	0%	90	\$0	Robert Saethre															
P422P260	Fabrication of Injection Dump Septum Magnet Stand Complete		18-Oct-22		17-Aug-22	0%	0	\$0	Robert Saethre															
P422P265	Receive Injection Dump Septum Magnet Stand	19-Oct-22	19-Oct-22	18-Aug-22	18-Aug-22	0%	1	\$19,075	Robert Saethre															
P04.02.02.04 Installation - Injection Region Magnets_Vacuum System_Stripper Foil Mechanisms		18-Jan-23	29-Jun-23	18-Jan-23	29-Jun-23		115	\$374,854																
P422M36	Work Planning (lifting/drilling permits, sched, ALARA revs, JHAs to move Chicane 1, replace Chicane 2,3, & Inj Dump	18-Jan-23	14-Mar-23	18-Jan-23	14-Mar-23	0%	40	\$31,515	Robert Saethre															
P424I311	Wait for Radiation levels to drop below ALARA levels	01-Feb-23	14-Mar-23	01-Feb-23	14-Mar-23	0%	30	\$247	Robert Saethre															
P424I191	Outage supervision (Extended Outage)	15-Mar-23	24-May-23	15-Mar-23	24-May-23	0%	50	\$57,036	Robert Saethre															
P422I500	Open RTBT Truck Entrance	15-Mar-23	16-Mar-23	15-Mar-23	16-Mar-23	0%	2	\$9,605	Robert Saethre															
P424I135	Remove injection dump vacuum chambers from tunnel	17-Mar-23	23-Mar-23	17-Mar-23	23-Mar-23	0%	5	\$29,542	Robert Saethre															
P424I81	Remove magnets and stands from tunnel	17-Mar-23	23-Mar-23	17-Mar-23	23-Mar-23	0%	5	\$30,495	Robert Saethre															
P4244IMS010	P.04.02.04.04_Dispose of RMA material properly (all injection region tasks)		23-Mar-23		23-Mar-23	0%	0	\$0	Robert Saethre															
P422I331	Disconnect Magnet Leads	24-Mar-23	24-Mar-23	24-Mar-23	24-Mar-23	0%	1	\$970	Robert Saethre															
P424I316	Clean up site and prep for install	27-Mar-23	28-Mar-23	27-Mar-23	28-Mar-23	0%	2	\$7,763	Robert Saethre															
P424I321	Repair/Replace Rad damaged components, cables, connectors	29-Mar-23	04-Apr-23	29-Mar-23	04-Apr-23	0%	5	\$14,643	Robert Saethre															
P424I231	Move equipment into tunnel	05-Apr-23	10-Apr-23	05-Apr-23	10-Apr-23	0%	3	\$22,871	Robert Saethre															
P424I236	Move Chicane #1	11-Apr-23	12-Apr-23	11-Apr-23	12-Apr-23	0%	2	\$17,998	Robert Saethre															
P424I261	Replace Chicane 2 and 3 magnets, stand, etc.	13-Apr-23	18-Apr-23	13-Apr-23	18-Apr-23	0%	4	\$34,054	Robert Saethre															
P424I286	Replace Injection Dump Septum	19-Apr-23	20-Apr-23	19-Apr-23	20-Apr-23	0%	2	\$19,427	Robert Saethre															
P424I344	Replace Injection Dump Quadrupole Magnet (with Corrector Magnet)	21-Apr-23	24-Apr-23	21-Apr-23	24-Apr-23	0%	2	\$19,427	Robert Saethre															
P424I146	Survey and Alignment, Chambers, magnets, and stands; Pump down & test vacuum	25-Apr-23	01-May-23	25-Apr-23	01-May-23	0%	5	\$11,877	Robert Saethre															
P424I331	Controls Test - Primary	02-May-23	10-May-23	02-May-23	10-May-23	0%	7	\$8,474	Robert Saethre															
P422I336	Connect Magnet Leads	11-May-23	11-May-23	11-May-23	11-May-23	0%	1	\$970	Robert Saethre															
P424I341	Controls Test - Secondary	12-May-23	22-May-23	12-May-23	22-May-23	0%	7	\$8,474	Robert Saethre															
P425I51	Install primary foil mechanism	23-May-23	25-May-23	23-May-23	25-May-23	0%	3	\$9,550	Robert Saethre															
P425I86	Install secondary foil mechanism	26-May-23	30-May-23	26-May-23	30-May-23	0%	2	\$7,473	Robert Saethre															
P424I221	Injection Region Vacuum Integrated System Testing	31-May-23	13-Jun-23	31-May-23	13-Jun-23	0%	10	\$7,809	Robert Saethre															
P422I296	Injection Region Magnet Integrated System Testing	31-May-23	13-Jun-23	31-May-23	13-Jun-23	0%	10	\$8,055	Robert Saethre															
P425I513	Injection Region New Primary and Secondary Foil Mechanisms Integrated System Testing	31-May-23	13-Jun-23	31-May-23	13-Jun-23	0%	10	\$7,633	Robert Saethre															
P4224IMS001	P.04.02.02.04 Injection Region Magnets, Vacuum Systems, Foil Changers_Installation Complete		13-Jun-23		13-Jun-23	0%	0	\$0	Robert Saethre															
P422I510	Close RTBT Truck Entrance	28-Jun-23	29-Jun-23	28-Jun-23	29-Jun-23	0%	2	\$8,945	Robert Saethre															

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1								13-Aug-21 10:09																												
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028		FY2029		
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P04.02.03	Power Supplies	15-Aug-18 A	24-May-23	15-Aug-18	24-May-23		490	\$128,173																														
P423MS002	Complete Injection Kicker System - Preliminary Design Review Meeting		09-Jan-19 A		09-Jan-19	100%	0	\$0	Robert Saethre																													
P04.02.03.02	Design - Power Supplies - (NEP42320)	15-Aug-18 A	30-Apr-21 A	15-Aug-18	10-May-21		0	\$22,248																														
P423D170	Prepare PDR for Injection Region Power Supply	02-Jan-19 A	08-Jan-19 A	02-Jan-19	08-Jan-19	100%	0	\$0	Robert Saethre																													
P423D61	Update Installation Drawings for Injection Region Power Supply	22-Mar-21 A	19-Apr-21 A	22-Mar-21	19-Apr-21	100%	0	\$8,426	Robert Saethre																													
P04.02.03.02.01	Upgrade Existing PS to 1600A - I Kicker Test Article Refurbishment	15-Aug-18 A	13-Mar-20 A	15-Aug-18	13-Mar-20		0	\$0																														
P423D210	Inspect kicker test article in Rats II	15-Aug-18 A	16-Aug-18 A	15-Aug-18	16-Aug-18	100%	0	\$0	Robert Saethre																													
P423D16M	Requote engineering service Upgrade Test Article Injection Kicker PS - Part 1	16-Aug-18 A	28-Sep-18 A	16-Aug-18	28-Sep-18	100%	0	\$0	Robert Saethre																													
P423D220	Move kicker test article to 8930	17-Aug-18 A	23-Aug-18 A	17-Aug-18	23-Aug-18	100%	0	\$0	Robert Saethre																													
P423D230	Create circuit simulation model	17-Aug-18 A	21-Sep-18 A	17-Aug-18	21-Sep-18	100%	0	\$0	Robert Saethre																													
P423D240	Clean kicker test article and compare to schematic and BOM	24-Aug-18 A	21-Sep-18 A	24-Aug-18	21-Sep-18	100%	0	\$0	Robert Saethre																													
P423D280	Connect AC Power and Water Cooling	21-Sep-18 A	21-Sep-18 A	21-Sep-18	21-Sep-18	100%	0	\$0	Robert Saethre																													
P423D16MB	Requote engineering service Upgrade Test Article Injection Kicker PS - Continued	01-Oct-18 A	08-Oct-18 A	01-Oct-18	08-Oct-18	100%	0	\$0	Robert Saethre																													
P423D250	Procure Missing Components for kicker Test Article refurbishment	08-Oct-18 A	08-Oct-18 A	08-Oct-18	08-Oct-18	100%	0	\$0	Robert Saethre																													
P423D201	Prepare contract for engineering services to upgrade Test Article power supply	09-Oct-18 A	22-Oct-18 A	09-Oct-18	22-Oct-18	100%	0	\$0	Robert Saethre																													
P423D580	Procure Engineering Services to Upgrade Test Article Injection Kicker PS	23-Oct-18 A	29-Oct-18 A	23-Oct-18	29-Oct-18	100%	0	\$0	Robert Saethre																													
P423D231	Award Contract for engineering services to upgrade Test Article power supply	29-Oct-18 A	29-Oct-18 A	29-Oct-18	29-Oct-18	100%	0	\$0	Robert Saethre																													
P423D590	Perform Engineering Services to Upgrade Test Article Injection Kicker PS -Part A	29-Oct-18 A	31-Mar-19 A	29-Oct-18	31-Mar-19	100%	0	\$0	Robert Saethre																													
P423D290	Perform testing of refurbished kicker Test Article up to 1400A	29-Nov-18 A	19-Dec-18 A	29-Nov-18	19-Dec-18	100%	0	\$0	Robert Saethre																													
P423D320	Procure Components Required for Upgrade Iteration 1 for Upgrading Existing Injection Kicker Power Supplies	10-Dec-18 A	14-Dec-18 A	10-Dec-18	14-Dec-18	100%	0	\$0	Robert Saethre																													
P423D340	Install components required for upgrade iteration 1	17-Dec-18 A	17-Dec-18 A	17-Dec-18	17-Dec-18	100%	0	\$0	Robert Saethre																													
P423D330	Receive Components Required for Upgrade Iteration 1 for Upgrading Existing Injection Kicker Power Supplies	17-Dec-18 A	17-Dec-18 A	17-Dec-18	17-Dec-18	100%	0	\$0	Robert Saethre																													
P423D350	Perform testing of Test Article up to 1600A iteration 1	19-Dec-18 A	19-Dec-18 A	19-Dec-18	19-Dec-18	100%	0	\$0	Robert Saethre																													
P423D300	Define components required to upgrade for 1600A operation	20-Dec-18 A	18-Jan-19 A	20-Dec-18	18-Jan-19	100%	0	\$0	Robert Saethre																													
P423D315	Preliminary Design Review for Upgrading Existing Injection Kicker Power Supplies	09-Jan-19 A	09-Jan-19 A	09-Jan-19	09-Jan-19	100%	0	\$0	Robert Saethre																													
P423D317	Ready for Ring Systems PDR Meeting - Upgrading Existing Supplies for Kicker Test Article Refurbishment		09-Jan-19 A		09-Jan-19	100%	0	\$0	Robert Saethre																													
P423D360	Procure components required for upgrade iteration 2 - Part A	25-Feb-19 A	31-Mar-19 A	25-Feb-19	31-Mar-19	100%	0	\$0	Robert Saethre																													
P423D590B	Perform Engineering Services to Upgrade Test Article Injection Kicker PS - Part B	01-Apr-19 A	15-Apr-19 A	01-Apr-19	15-Apr-19	100%	0	\$0	Robert Saethre																													
P423D360B	Procure components required for upgrade iteration 2 - Part B	01-Apr-19 A	12-Apr-19 A	01-Apr-19	12-Apr-19	100%	0	\$0	Robert Saethre																													
P423D370	Receive components required for upgrade iteration 2	15-Apr-19 A	17-May-19 A	15-Apr-19	17-May-19	100%	0	\$0	Robert Saethre																													
P423D390	Install components required for upgrade iteration 2	20-May-19 A	24-May-19 A	20-May-19	24-May-19	100%	0	\$0	Robert Saethre																													
P423D400	Perform testing of Test Article up to 1600A iteration 2	28-May-19 A	31-May-19 A	28-May-19	31-May-19	100%	0	\$0	Robert Saethre																													
P423D410	Electrical and thermal performance verification complete		31-May-19 A		31-May-19	100%	0	\$0	Robert Saethre																													

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1										13-Aug-21 10:09																									
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29														
P423D380	Prepare Final Design Review for upgrade of Existing Injection Kicker Power Supplies	24-Feb-20 A	06-Mar-20 A	24-Feb-20	06-Mar-20	100%	0	\$0	Robert Saethre																												
P423D385	Final Design Review for Upgrading Existing Injection Kicker Power Supplies	13-Mar-20 A	13-Mar-20 A	13-Mar-20	13-Mar-20	100%	0	\$0	Robert Saethre																												
P423D387	Ready for Ring System FDR - Upgrading Existing Injection Kicker Power Supplies		13-Mar-20 A		13-Mar-20	100%	0	\$0	Robert Saethre																												
P04.02.03.02.02 Design Injection Dump Quadrupole Power Supply		01-Oct-18 A	30-Apr-21 A	01-Oct-18	10-May-21		0	\$13,821																													
P423D600	Create Design Package and Technical Specifications for Injection Dump Quadrupole Power Supply	01-Oct-18 A	17-Dec-18 A	01-Oct-18	17-Dec-18	100%	0	\$0	Robert Saethre																												
P423D610	Create Design Package for Injection Dump Quadrupole Power Supply - Part B	22-Feb-21 A	19-Apr-21 A	01-Mar-21	26-Mar-21	100%	0	\$9,214	Robert Saethre																												
P423D135	Create Installation Drawings for Injection Dump Quadrupole Power Supply	20-Apr-21 A	30-Apr-21 A	29-Mar-21	10-May-21	100%	0	\$4,607	Robert Saethre																												
P04.02.03.03 Procure/Fab - Power Supplies - (NEP42330)		01-Dec-20 A	27-Oct-21	29-Mar-21	02-Sep-21		105	\$52,793																													
P04.02.03.03.01 Procure/Fab Injection Dump Quadrupole PS		22-Mar-21 A	28-Jul-21	29-Mar-21	02-Sep-21		41	\$24,221																													
P423P140	Prepare Tech Spec/SOW - Injection Dump Quadrupole PS	22-Mar-21 A	31-Mar-21 A	29-Mar-21	19-Apr-21	100%	0	\$1,445	Robert Saethre																												
P423P270	Procure Injection Dump Quadrupole PS	01-Apr-21 A	11-May-21 A	20-Apr-21	10-May-21	100%	0	\$823	Robert Saethre																												
P423P145	Fabrication of Injection Dump Quadrupole PS	12-May-21 A	13-Jul-21	11-May-21	29-Jun-21	15%	30	\$0	Robert Saethre																												
P423P295	Provide Vendor Interface During Fabrication of Injection Dump Quadrupole PS	12-May-21 A	13-Jul-21	30-Jun-21	18-Aug-21	25%	30	\$2,529	Robert Saethre																												
P423P145M	Fabrication of Injection Dump Quadrupole PS Complete		13-Jul-21		29-Jun-21	0%	0	\$0	Robert Saethre																												
P423P150	Receive Injection Dump Quadrupole PS	14-Jul-21	14-Jul-21	19-Aug-21	19-Aug-21	0%	1	\$9,974	Robert Saethre																												
P423P250	Perform Incoming Inspection and Testing of Injection Dump Quadrupole PS	15-Jul-21	28-Jul-21	20-Aug-21	02-Sep-21	0%	10	\$9,450	Robert Saethre																												
P04.02.03.03.03 Procure/Fab Inj Dump Quadrupole Corrector PS		22-Mar-21 A	27-Oct-21	20-Apr-21	05-Aug-21		105	\$28,115																													
P423P273	Prepare Tech Spec/SOW - Injection Dump Quadrupole Corrector PS	22-Mar-21 A	31-Mar-21 A	20-Apr-21	10-May-21	100%	0	\$1,445	Robert Saethre																												
P423P276	Procure Injection Dump Quadrupole Corrector PS	01-Apr-21 A	04-Jun-21	11-May-21	01-Jun-21	50%	4	\$823	Robert Saethre																												
P423P279	Fabrication of Injection Dump Quadrupole Corrector PS	07-Jun-21	12-Oct-21	02-Jun-21	21-Jul-21	0%	90	\$0	Robert Saethre																												
P423P305	Provide Vendor Interface During Fabrication of Injection Dump Quadrupole PS Corrector	07-Jun-21	26-Jul-21	02-Jun-21	21-Jul-21	0%	35	\$2,529	Robert Saethre																												
P423P145M3	Fabrication of Injection Dump Quadrupole PS Corrector Complete		12-Oct-21		21-Jul-21	0%	0	\$0	Robert Saethre																												
P423P282	Receive Injection Dump Quadrupole Corrector PS	13-Oct-21	13-Oct-21	22-Jul-21	22-Jul-21	0%	1	\$13,501	Robert Saethre																												
P423P285	Perform Incoming Inspection and Testing of Injection Dump Quadrupole Corrector PS	14-Oct-21	27-Oct-21	23-Jul-21	05-Aug-21	0%	10	\$9,817	Robert Saethre																												
P04.02.03.03.02 Procure/Fab Modifications to 8 injection kicker PS		01-Dec-20 A	08-Jan-21 A	01-Jun-21	13-Jul-21		0	\$457																													
P423P260	Procure/Receive Upgrade Parts and Testing of 8 Power Supplies	01-Dec-20 A	08-Jan-21 A	01-Jun-21	13-Jul-21	100%	0	\$457	Robert Saethre																												
P04.02.03.04 Installation - Power Supplies - (NEP42340)		11-Jan-21 A	24-May-23	22-Oct-21	24-May-23		80	\$53,133																													
P423I46	Install Injection Kicker PS	11-Jan-21 A	29-Jan-21 A	22-Oct-21	18-Nov-21	100%	0	\$26,437	Robert Saethre																												
P423MS001	Injection Kicker Power Supplies Modifications Complete		29-Jan-21 A		18-Nov-21	100%	0	\$0	Robert Saethre																												
P423I135	Install Injection Dump Quadrupole PS	01-Feb-23	28-Feb-23	01-Feb-23	28-Feb-23	0%	20	\$18,640	Robert Saethre																												
P423I51	Injection Region Kicker Power Supply Integrated System Testing	27-Apr-23	24-May-23	27-Apr-23	24-May-23	0%	20	\$8,055	Robert Saethre																												
P4234IMS001	P.04.02.03.04_ Injection Region Power Supplies Installation Complete		24-May-23		24-May-23	0%	0	\$0	Robert Saethre																												
P04.02.04 Vacuum Systems		01-Aug-18 A	02-Dec-22	01-Aug-18	12-Sep-22		376	\$1,116,072																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P04.02.04.02 Design - Vacuum Systems - (NEP42420)		01-Aug-18 A	26-Jan-22	01-Aug-18	25-Oct-21		160	\$466,415															
P04.02.04.02.01 Preliminary Design - Injection Region Vacuum System		01-Aug-18 A	06-Mar-19 A	01-Aug-18	06-Mar-19		0	\$0															
P424D121	Prepare Preliminary Design for Chicane 1 Vacuum Chamber - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Tom Roseberry														
P424D126	Prepare Preliminary Design for Chicane 2 Vacuum Chamber - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Tom Roseberry														
P424D131	Prepare Preliminary Design for Chicane 3 Vacuum Chamber - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Tom Roseberry														
P424D136	Prepare Preliminary Design for Chicane 4 Vacuum Chamber - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Tom Roseberry														
P424D141	Prepare Preliminary Design for Injection Dump Septum Vacuum Chamber - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Tom Roseberry														
P424D121B	Prepare Preliminary Design for Chicane 1 Vacuum Chamber - Continued	01-Oct-18 A	15-Feb-19 A	01-Oct-18	15-Feb-19	100%	0	\$0	Tom Roseberry														
P424D131B	Prepare Preliminary Design for Chicane 3 Vacuum Chamber - Continued	01-Oct-18 A	15-Feb-19 A	01-Oct-18	15-Feb-19	100%	0	\$0	Tom Roseberry														
P424D136B	Prepare Preliminary Design for Chicane 4 Vacuum Chamber - Continued	01-Oct-18 A	15-Feb-19 A	01-Oct-18	15-Feb-19	100%	0	\$0	Tom Roseberry														
P424D141B	Prepare Preliminary Design for Injection Dump Septum Vacuum Chamber - Continued	01-Oct-18 A	15-Feb-19 A	01-Oct-18	15-Feb-19	100%	0	\$0	Tom Roseberry														
P424D126B	Prepare Preliminary Design for Chicane 2 Vacuum Chamber - Continued	01-Nov-18 A	15-Feb-19 A	01-Nov-18	15-Feb-19	100%	0	\$0	Tom Roseberry														
P04.02.04.02.01.01 Injection Region Vacuum System Preliminary Design Review		18-Feb-19 A	06-Mar-19 A	18-Feb-19	06-Mar-19		0	\$0															
P424D240	Prepare Injection Region Vacuum System Information for Ring System PDR	18-Feb-19 A	06-Mar-19 A	18-Feb-19	06-Mar-19	100%	0	\$0	Tom Roseberry														
P424D200	Ready for Ring Systems PDR - Injection Region Vacuum System		06-Mar-19 A		06-Mar-19	100%	0	\$0	Tom Roseberry														
P04.02.04.02.02 Final Design - Injection Region Vacuum System		22-Mar-19 A	26-Jan-22	22-Mar-19	25-Oct-21		160	\$466,415															
P424D320	Prepare Final Design for Chicane 1 Vacuum Chamber - Part A	22-Mar-19 A	31-Mar-19 A	22-Mar-19	31-Mar-19	100%	0	\$0	Tom Roseberry														
P424D350	Prepare Final Design for Chicane 4 Vacuum Chamber - Part A	22-Mar-19 A	31-Mar-19 A	22-Mar-19	31-Mar-19	100%	0	\$0	Tom Roseberry														
P424D320B	Prepare Final Design for Chicane 1 Vacuum Chamber - Part B (90%)	22-May-20 A	30-Oct-20 A	22-May-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P424D710	Prepare Final Design for Chicane 2/3 Bellows & Spools Between Chambers (90%)	15-Jun-20 A	30-Oct-20 A	15-Jun-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P424D330	Prepare Final Design for Chicane 2 Vacuum Chamber (90%)	22-Jun-20 A	30-Oct-20 A	22-Jun-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P424D750	Prepare Final Design for Chicane 1 Bellows & Spools Between Chambers (90%)	17-Aug-20 A	30-Oct-20 A	17-Aug-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P424D340	Prepare Final Design for Chicane 3 Vacuum Chamber (90%)	14-Sep-20 A	30-Oct-20 A	14-Sep-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P424D350B	Prepare Final Design for Chicane 4 Vacuum Chamber - Part B (90%)	21-Sep-20 A	14-Oct-20 A	21-Sep-20	14-Oct-20	100%	0	\$0	Tom Roseberry														
P424D720	Prepare Final Design for Inj Dump Septum Bellows & Spools Between Chambers (90%)	21-Sep-20 A	30-Oct-20 A	21-Sep-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P424D360	Prepare Final Design for Injection Dump Septum Vacuum Chamber (90%)	21-Sep-20 A	07-Oct-20 A	21-Sep-20	07-Oct-20	100%	0	\$0	Tom Roseberry														
P424D380	Prepare Final Design for Injection Dump Quadrupole Vacuum Chamber (90%)	24-Sep-20 A	30-Oct-20 A	24-Sep-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P424D383	Prepare Final Design for Inj Dump Quadrupole Bellows & Spools Between Chambers (90%)	02-Nov-20 A	18-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$19,219	Tom Roseberry														
P424D320-B	Prepare Final Design for Chicane 1 Vacuum Chamber - Part B (90%)	02-Nov-20 A	18-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$16,948	Tom Roseberry														
P424D710-B	Prepare Final Design for Chicane 2/3 Bellows & Spools Between Chambers (90%)	02-Nov-20 A	18-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$16,948	Tom Roseberry														
P424D330-B	Prepare Final Design for Chicane 2 Vacuum Chamber (90%)	02-Nov-20 A	18-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$16,948	Tom Roseberry														
P424D750-B	Prepare Final Design for Chicane 1 Bellows & Spools Between Chambers (90%)	02-Nov-20 A	18-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$16,948	Tom Roseberry														
P424D380-B	Prepare Final Design for Injection Dump Quadrupole Vacuum Chamber (90%)	02-Nov-20 A	18-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$18,134	Tom Roseberry														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P424D378	Prepare Design for Interconnecting Chambers (90%)	04-Jan-21 A	26-Feb-21 A	04-Jan-21	26-Feb-21	100%	0	\$15,518	Tom Roseberry														
P424D740	Prepare Final Design for Chicane 4 Bellows & Spools Between Chambers (90%)	04-Jan-21 A	26-Feb-21 A	04-Jan-21	26-Feb-21	100%	0	\$15,518	Tom Roseberry														
P424D340-B	Prepare Final Design for Chicane 3 Vacuum Chamber (90%)	04-Jan-21 A	26-Feb-21 A	04-Jan-21	26-Feb-21	100%	0	\$15,518	Tom Roseberry														
P424D350-B	Prepare Final Design for Chicane 4 Vacuum Chamber (90%)	04-Jan-21 A	26-Feb-21 A	04-Jan-21	26-Feb-21	100%	0	\$15,518	Tom Roseberry														
P424D720-B	Prepare Final Design for Inj Dump Septum Bellows & Spools Between Chambers (90%)	04-Jan-21 A	26-Feb-21 A	04-Jan-21	26-Feb-21	100%	0	\$15,518	Tom Roseberry														
P424D360-B	Prepare Final Design for Injection Dump Septum Vacuum Chamber (90%)	04-Jan-21 A	26-Feb-21 A	04-Jan-21	26-Feb-21	100%	0	\$15,518	Tom Roseberry														
P424D760	Prepare Design Calculation & Analysis - Vacuum Chambers 90%	01-Mar-21 A	30-Jul-21	19-May-21	25-May-21	60%	43	\$10,289	Tom Roseberry														
P424D-999	Prepare Design for Vacuum Chambers, Bellows, Spools (90% CAD Models)	01-Mar-21 A	20-Aug-21	01-Mar-21	18-May-21	60%	58	\$115,274	Tom Roseberry														
P424D-1009	Prepare Final Design (Adjustment)	01-Mar-21 A	01-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$14,298)	Tom Roseberry														
P424D763	Prepare 70% Drawing Package - Vacuum Chambers	26-May-21 A	21-Sep-21	26-May-21	30-Jun-21	3%	79	\$51,447	Tom Roseberry														
P424D813	Coordinate Vacuum Chambers Final Design Review	02-Aug-21	13-Aug-21	26-May-21	09-Jun-21	0%	10	\$1,285	Tom Roseberry														
P424D770	Prepare for Vacuum Chambers Final Design Review	22-Sep-21	05-Oct-21	01-Jul-21	15-Jul-21	0%	10	\$20,720	Tom Roseberry														
P424D803	Gather and Post Vacuum Chambers Final Design Review Documentation	06-Oct-21	07-Oct-21	16-Jul-21	19-Jul-21	0%	2	\$4,111	Tom Roseberry														
P424D773	Conduct Vacuum Chambers Final Design Review	13-Oct-21	13-Oct-21	23-Jul-21	23-Jul-21	0%	1	\$5,667	Tom Roseberry														
P424D2302	Vacuum Chambers Final Design Review Complete		13-Oct-21		23-Jul-21	0%	0	\$0	Tom Roseberry														
P424D783	Incorporate Comments from Vacuum Chambers Final Design Review	28-Oct-21	10-Nov-21	09-Aug-21	20-Aug-21	0%	10	\$21,048	Tom Roseberry														
P424D700	Vacuum Chamber 90% Design Complete		10-Nov-21		20-Aug-21	0%	0	\$0	Tom Roseberry														
P424P210	Release Drawings and Prepare Fab Package for Vacuum Chambers & Components 100%	11-Nov-21	03-Dec-21	23-Aug-21	13-Sep-21	0%	15	\$31,572	Tom Roseberry														
P424D300	Prepare Final Design for Ring Injection TIN Plating Adapters	12-Jan-22	26-Jan-22	12-Oct-21	25-Oct-21	0%	10	\$21,048	Tom Roseberry														
P04.02.04.03 Procure/Fab - Vacuum Systems - (NEP42430)		06-Dec-21	02-Dec-22	14-Sep-21	12-Sep-22		246	\$649,657															
P04.02.04.03.01 PO - Vacuum Chambers		06-Dec-21	19-Oct-22	14-Sep-21	29-Jul-22		216	\$411,413															
P424P273	Prepare SOW and Tech Spec for Vacuum Chambers	06-Dec-21	04-Jan-22	14-Sep-21	04-Oct-21	0%	15	\$19,459	Tom Roseberry														
P424P275	Procurement Readiness Review (PRR) for Vacuum Chambers	05-Jan-22	11-Jan-22	05-Oct-21	11-Oct-21	0%	5	\$1,244	Tom Roseberry														
P424P278	Technical Packages to Procurement for Vacuum Chambers		11-Jan-22		11-Oct-21	0%	0	\$0	Tom Roseberry														
P424P280	Procurement Review & Bid for Vacuum Chambers	12-Jan-22	02-Feb-22	12-Oct-21	01-Nov-21	0%	15	\$770	Tom Roseberry														
P424P283	Issue RFP for Vacuum Chambers		02-Feb-22		01-Nov-21	0%	0	\$0	Tom Roseberry														
P424P530	Solicitation Period for Vacuum Chambers	03-Feb-22	09-Mar-22	02-Nov-21	08-Dec-21	0%	25	\$5,649	Tom Roseberry														
P424P540	Solicitation Complete for Vacuum Chambers		09-Mar-22		08-Dec-21	0%	0	\$0	Tom Roseberry														
P424P550	Review and Award Contract for Vacuum Chambers	10-Mar-22	30-Mar-22	09-Dec-21	07-Jan-22	0%	15	\$2,823	Tom Roseberry														
P424P560	Award Contract for Vacuum Chambers	30-Mar-22	30-Mar-22	07-Jan-22	07-Jan-22	0%	1	\$0	Tom Roseberry														
P424P370	Fabrication of Chicane 1 vacuum chamber	31-Mar-22	18-Oct-22	10-Jan-22	28-Jul-22	0%	140	\$0	Tom Roseberry														
P424P380	Fabrication of Chicane 2 vacuum chamber	31-Mar-22	18-Oct-22	10-Jan-22	28-Jul-22	0%	140	\$0	Tom Roseberry														
P424P390	Fabrication of Chicane 3 vacuum chamber	31-Mar-22	18-Oct-22	10-Jan-22	28-Jul-22	0%	140	\$0	Tom Roseberry														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P424P300	Procure TIN Plating Adapter Consumables	20-Jun-22	18-Jul-22	29-Mar-22	26-Apr-22	0%	20	\$9,786	Tom Roseberry														
P424P430	Procure TIN Coating Adapter Consumables - Chicane 1-4	20-Jun-22	18-Jul-22	29-Mar-22	26-Apr-22	0%	20	\$30,545	Tom Roseberry														
P04.02.04.03.04 PO - Consumables for Vacuum Chambers (i.e., gaskets, bolts, fittings)		20-Oct-22	02-Dec-22	01-Aug-22	12-Sep-22		30	\$69,161															
P424P450	S&A, Leak Check, Bake, RGA Scan, Storage Chicane 1 Vacuum Chamber	20-Oct-22	26-Oct-22	01-Aug-22	05-Aug-22	0%	5	\$11,527	Tom Roseberry														
P424P640	S&A, Leak Check, Bake, RGA Scan, Storage Chicane 4 Vacuum Chamber	27-Oct-22	02-Nov-22	08-Aug-22	12-Aug-22	0%	5	\$11,527	Tom Roseberry														
P424P650	S&A, Leak Check, Bake, RGA Scan, Storage Injection Dump Quadrupole Vacuum Chamber	03-Nov-22	09-Nov-22	15-Aug-22	19-Aug-22	0%	5	\$11,527	Tom Roseberry														
P424P480	S&A, Leak Check, Bake, RGA Scan, Storage Chicane 2 Vacuum Chamber	10-Nov-22	16-Nov-22	22-Aug-22	26-Aug-22	0%	5	\$11,527	Tom Roseberry														
P424P500	S&A, Leak Check, Bake, RGA Scan, Storage Chicane 3 Vacuum Chamber	17-Nov-22	23-Nov-22	29-Aug-22	02-Sep-22	0%	5	\$11,527	Tom Roseberry														
P424P520	S&A, Leak Check, Bake, RGA Scan, Storage Injection Dump Septum Vacuum Chamber	28-Nov-22	02-Dec-22	06-Sep-22	12-Sep-22	0%	5	\$11,527	Tom Roseberry														
P424P660	All Vacuum Chambers Ready for Installation		02-Dec-22		12-Sep-22	0%	0	\$0	Tom Roseberry														
P04.02.05 Primary and Secondary Stripper Foil Mechanisms		23-Aug-21	12-Jan-23	24-May-21	25-Jan-23		340	\$436,636															
P04.02.05.02 Design - Primary and Secondary Stripper Foil Mechanisms - (NEP42520)		23-Aug-21	25-Apr-22	24-May-21	04-May-22		164	\$158,722															
P04.02.05.02.01 Preliminary Design - Primary and Secondary Stripper Foil Mechanisms		23-Aug-21	24-Nov-21	24-May-21	22-Oct-21		67	\$68,878															
P425D005	Gather Drawings for New Primary Foil Mechanism	23-Aug-21*	03-Sep-21	24-May-21	20-Jul-21	0%	10	\$3,324	Tom Roseberry														
P425D010	Prepare Preliminary Design for New Secondary Foil Mechanism	23-Aug-21	04-Oct-21	21-Jul-21	31-Aug-21	0%	30	\$53,306	Tom Roseberry														
P04.02.05.02.01.01 Preliminary Design Review - New Primary Foil Mechanism		28-Sep-21	24-Nov-21	25-Aug-21	22-Oct-21		42	\$12,248															
P425D100	Coordinate New Secondary Foil Mechanism Preliminary Design Review	28-Sep-21	04-Oct-21	25-Aug-21	31-Aug-21	0%	5	\$701	Tom Roseberry														
P425D110	Prepare for New Secondary Foil Mechanism Preliminary Design Review	05-Oct-21	18-Oct-21	01-Sep-21	15-Sep-21	0%	10	\$3,490	Tom Roseberry														
P425D120	Gather New Secondary Foil Mechanism Preliminary Design Review Documentation	19-Oct-21	20-Oct-21	16-Sep-21	17-Sep-21	0%	2	\$359	Tom Roseberry														
P425D130	New Secondary Foil Mechanism Preliminary Design Review Documentation Posted		20-Oct-21		17-Sep-21	0%	0	\$0	Tom Roseberry														
P425D140	New Secondary Foil Mechanism Preliminary Design Review Meeting	28-Oct-21	03-Nov-21	27-Sep-21	01-Oct-21	0%	5	\$3,897	Tom Roseberry														
P425D150	Incorporate Comments from New Secondary Foil Mechanism Preliminary Design Review Meeting	04-Nov-21	24-Nov-21	04-Oct-21	22-Oct-21	0%	15	\$3,801	Tom Roseberry														
P425D160	New Secondary Foil Mechanism Preliminary Design Review Meeting Data Archived		24-Nov-21		22-Oct-21	0%	0	\$0	Tom Roseberry														
P04.02.05.02.02 Final Design - Primary and Secondary Stripper Foil Mechanisms		29-Nov-21	25-Apr-22	25-Oct-21	04-May-22		97	\$89,844															
P425D020	Prepare Final Design for New Secondary Foil Mechanism	29-Nov-21	19-Jan-22	22-Dec-21	11-Feb-22	0%	30	\$41,399	Tom Roseberry														
P425D015	Prepare Final Design for New Primary Foil Mechanism - TO BE DELETED	29-Nov-21	02-Feb-22	25-Oct-21	21-Dec-21	0%	40	\$35,105	Tom Roseberry														
P04.02.05.02.02.01 Final Design Review - New Primary Foil Mechanism		20-Jan-22	25-Apr-22	31-Jan-22	04-May-22		67	\$13,340															
P425D510	Prepare for New Primary & Secondary Foil Mechanism Final Design Review	20-Jan-22	02-Feb-22	14-Feb-22	25-Feb-22	0%	10	\$3,490	Tom Roseberry														
P425D500	Coordinate New Primary & Secondary Foil Mechanism Final Design Review	03-Feb-22	16-Feb-22	31-Jan-22	11-Feb-22	0%	10	\$717	Tom Roseberry														
P425D520	Gather New Primary & Secondary Foil Mechanism Final Design Review Documentation	17-Feb-22	18-Feb-22	28-Feb-22	01-Mar-22	0%	2	\$359	Tom Roseberry														
P425D530	New Primary & Secondary Foil Mechanism Final Design Review Documentation Posted		18-Feb-22		01-Mar-22	0%	0	\$0	Tom Roseberry														
P425D540	New Primary & Secondary Foil Mechanism Final Design Review Meeting	21-Feb-22	25-Feb-22	02-Mar-22	08-Mar-22	0%	5	\$3,897	Tom Roseberry														
P425D550	Incorporate Comments from New Primary & Secondary Foil Mechanism Final Design Review Meeting	28-Feb-22	18-Mar-22	09-Mar-22	29-Mar-22	0%	15	\$4,160	Tom Roseberry														





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Periods																																						
										FY2016			FY2017			FY2018			FY2019			FY2020			FY2021			FY2022			FY2023			FY2024			FY2025			FY2026			FY2027			FY2028		
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F				
P431M1	L4 management-FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Tom Roseberry																																							
P431M36M	L4 management-FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Tom Roseberry																																							
P431M6	L4 management-FY18 (May through Sept)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Tom Roseberry																																							
P431M10	WBS P.4.3 Management FY19 (LOE) - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Tom Roseberry																																							
P431M10B	WBS P.4.3 Management FY19 (LOE) - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Tom Roseberry																																							
P431M10C	WBS P.4.3 Management FY19 (LOE) - Part C	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Tom Roseberry																																							
P431M20	WBS P.4.3 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Tom Roseberry																																							
P431M20B	WBS P.4.3 Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Tom Roseberry																																							
P431M30	WBS P.4.3 Management FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Tom Roseberry																																							
P431M30B	WBS P.4.3 Management FY21 (LOE) - continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$38,804	Tom Roseberry																																							
P431M40	WBS P.4.3 Management FY22 (LOE) (reduced hours)	01-Oct-21	31-Jan-22	01-Oct-21	31-Jan-22	0%	77	\$8,110	Tom Roseberry																																							
P431M41	WBS P.4.3 Management FY22 (LOE)	01-Feb-22	13-Jun-22	01-Feb-22	13-Jun-22	0%	93	\$18,248	Tom Roseberry																																							
P431MDOC1	P.04.03 Injection Dump - Compile Documentation for IRR/ERR Phase 1 (LOE)	14-Jun-22	12-Jul-22	14-Jun-22	12-Jul-22	0%	20	\$13,600	Tom Roseberry																																							
<b>P.04.03.02 Injection Dump Imaging System</b>		12-Jun-18 A	13-Jun-22	12-Jun-18	13-Jun-22		256	\$711,384																																								
P432MS001	Complete Evaluation of Alternative Design for Injection Dump View Screen		23-Aug-18 A		23-Aug-18	100%	0	\$0	Tom Roseberry																																							
P432MS005	Begin Preliminary Design (for Injection Dump View Screen)	24-Aug-18 A		24-Aug-18		100%	0	\$0	Tom Roseberry																																							
P432MS006	Injection Dump Imaging System Preliminary Design Review Meeting - Completed		05-Mar-19 A		05-Mar-19	100%	0	\$0	Tom Roseberry																																							
<b>P.04.03.02.02 Design - Injection Dump Imaging System - (NEP43220)</b>		12-Jun-18 A	14-Jul-21	12-Jun-18	29-Jun-21		31	\$194,371																																								
P432D37	Evaluate Alternative Design for Ring Injection Dump Imaging System	12-Jun-18 A	23-Aug-18 A	12-Jun-18	23-Aug-18	100%	0	\$0	Tom Roseberry																																							
<b>P.04.03.02.02.01 Preliminary Design - Injection Dump Imaging System</b>		01-Oct-18 A	20-Feb-19 A	01-Oct-18	20-Feb-19		0	\$0																																								
P432D45	Prepare Preliminary Optical Design and Analysis	01-Oct-18 A	20-Feb-19 A	01-Oct-18	20-Feb-19	100%	0	\$0	Tom Roseberry																																							
P432D79	Order of Magnitude Neutronics Input	03-Oct-18 A	29-Oct-18 A	03-Oct-18	29-Oct-18	100%	0	\$0	Tom Roseberry																																							
P432D31	Research Options for Coating and Determine Best Solution	24-Oct-18 A	21-Dec-18 A	24-Oct-18	21-Dec-18	100%	0	\$0	Tom Roseberry																																							
P432D80	Prepare Preliminary Shielding Design	29-Oct-18 A	15-Feb-19 A	29-Oct-18	15-Feb-19	100%	0	\$0	Tom Roseberry																																							
P432D70	Perform Preliminary Utilities Design & Analysis (cooling water, vacuum, etc.)	03-Dec-18 A	15-Jan-19 A	03-Dec-18	15-Jan-19	100%	0	\$0	Tom Roseberry																																							
P432D81	Prepare Preliminary Neutronics Analysis	03-Dec-18 A	25-Jan-19 A	03-Dec-18	25-Jan-19	100%	0	\$0	Tom Roseberry																																							
P432D47	Prepare Preliminary Data Acquisition and Controls Design	10-Dec-18 A	14-Dec-18 A	10-Dec-18	14-Dec-18	100%	0	\$0	Tom Roseberry																																							
<b>P.04.03.02.02.02 Final Design - Injection Dump Imaging System</b>		12-Aug-19 A	14-Jul-21	12-Aug-19	29-Jun-21		31	\$194,371																																								
P432D170	Prepare Final Design of Optical Flight Path	01-Apr-20 A	23-Jun-20 A	01-Apr-20	23-Jun-20	100%	0	\$0	Tom Roseberry																																							
P432D172	Prepare Design for Light Path	20-Apr-20 A	23-Jun-20 A	20-Apr-20	23-Jun-20	100%	0	\$0	Tom Roseberry																																							
P432D160	Prepare Final Data Acquisition and Controls Design	02-Jun-20 A	16-Jun-20 A	02-Jun-20	16-Jun-20	100%	0	\$0	Tom Roseberry																																							
P432D85	Prepare Final Shielding Design	25-Jun-20 A	01-Aug-20 A	25-Jun-20	01-Aug-20	100%	0	\$0	Tom Roseberry																																							
P432D285	Prepare Finalized Design following FDR - Optical Flight Path	30-Jun-20 A	01-Aug-20 A	30-Jun-20	01-Aug-20	100%	0	\$0	Tom Roseberry																																							

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029					
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P432D295	Prepare Finalized Design following FDR - Light Path	30-Jun-20 A	01-Aug-20 A	30-Jun-20	01-Aug-20	100%	0	\$0	Tom Roseberry																			
P432D295cpt	Prepare Finalized Design following FDR - Light Path (completion)	03-Aug-20 A	31-Aug-20 A	03-Aug-20	31-Aug-20	100%	0	\$0	Tom Roseberry																			
P432D855	Radiation Heating Analysis	03-Aug-20 A	29-Oct-20 A	03-Aug-20	29-Oct-20	100%	0	\$0	Tom Roseberry																			
P432D285cpt	Prepare Finalized Design following FDR - Optical Flight Path (completion)	03-Aug-20 A	30-Oct-20 A	03-Aug-20	30-Oct-20	100%	0	\$0	Tom Roseberry																			
P432D295cptB	Prepare Finalized Design following FDR - Light Path (completion) Part B	01-Oct-20 A	27-Oct-20 A	01-Oct-20	27-Oct-20	100%	0	\$0	Tom Roseberry																			
P432D857	Radiation Heating Analysis - Document and Review Results	02-Nov-20 A	30-Nov-20 A	02-Nov-20	30-Nov-20	100%	0	\$8,977	Tom Roseberry																			
P432D285-B	Optical Flight Path - Finalize Drawer Design	02-Nov-20 A	29-Jan-21 A	02-Nov-20	30-Nov-20	100%	0	\$4,081	Tom Roseberry																			
P432D295-B	Light Path - Final Drawings (partial)	02-Nov-20 A	18-Dec-20 A	02-Nov-20	30-Nov-20	100%	0	\$4,700	Tom Roseberry																			
P432D160b	Prepare Final Data Acquisition and Controls Design	01-Dec-20 A	14-Dec-20 A	01-Dec-20	14-Dec-20	100%	0	\$2,788	Tom Roseberry																			
P432D106	Finalize Installation Drawings (original)	01-Mar-21 A	05-Mar-21 A	27-Jan-21	23-Mar-21	100%	0	\$11,917	Tom Roseberry																			
P432D85b	Prepare Finalized Shielding Design(original)	01-Mar-21 A	05-Mar-21 A	01-Dec-20	26-Jan-21	100%	0	\$10,954	Tom Roseberry																			
P432D295-Bnew	Light Path - Final Drawings (incorporate new drawer design)	01-Mar-21 A	18-May-21 A	03-May-21	03-May-21	100%	0	\$46,979	Tom Roseberry																			
P432D285-Bnew	Optical Flight Path - Develop New Drawer Design	01-Mar-21 A	01-Mar-21 A	03-May-21	03-May-21	100%	0	\$61,116	Tom Roseberry																			
P432D106adj	Finalize Installation Drawings (adjustment)	01-Mar-21 A	05-Mar-21 A	03-May-21	03-May-21	100%	0	(\$11,917)	Tom Roseberry																			
P432D85badj	Prepare Finalized Shielding Design (adjustment)	01-Mar-21 A	05-Mar-21 A	03-May-21	03-May-21	100%	0	(\$10,954)	Tom Roseberry																			
P432D85bnew	Prepare Finalized Shielding Design	10-May-21 A	11-Jun-21	04-May-21	01-Jun-21	60%	9	\$11,012	Tom Roseberry																			
P432DFDC	Injection Dump Imaging System - Final Design Complete		18-May-21 A		26-Mar-21	100%	0	\$0	Tom Roseberry																			
P432D1106new	Finalize Installation Drawings	14-Jun-21	12-Jul-21	02-Jun-21	29-Jun-21	0%	20	\$10,735	Tom Roseberry																			
P04.03.02.02.01 Procure Test Article Bench Test Equipment Components		12-Aug-19 A	21-Oct-19 A	12-Aug-19	21-Oct-19		0	\$0																				
P432P276	Procure/Receive Electroluminescent Panels, Illuminator for First Article Bench Test Equip Ph I	12-Aug-19 A	29-Aug-19 A	12-Aug-19	29-Aug-19	100%	0	\$0	Tom Roseberry																			
P432P770	Start Procurement - First Article Bench Test Equip Components Ph I	12-Aug-19 A		12-Aug-19		100%	0	\$0	Tom Roseberry																			
P432P283	Procure/Receive Bandpass Filters (qty 4) for First Article Bench Test Equip Ph I	12-Aug-19 A	29-Aug-19 A	12-Aug-19	29-Aug-19	100%	0	\$0	Tom Roseberry																			
P432P279	Procure/Receive Resolution Test Targets for First Article Bench Test Equip Ph I	12-Aug-19 A	29-Aug-19 A	12-Aug-19	29-Aug-19	100%	0	\$0	Tom Roseberry																			
P432P261	Procure/Receive Cameras for First Article Bench Test Equip Ph I - Part A	26-Aug-19 A	31-Aug-19 A	26-Aug-19	31-Aug-19	100%	0	\$0	Tom Roseberry																			
P432P266	Procure/Receive PXI for First Article Bench Test Equip Ph I - Part A	26-Aug-19 A	31-Aug-19 A	26-Aug-19	31-Aug-19	100%	0	\$0	Tom Roseberry																			
P432P261B	Procure/Receive Cameras for First Article Bench Test Equip Ph I - Part B	01-Sep-19 A	13-Sep-19 A	01-Sep-19	13-Sep-19	100%	0	\$0	Tom Roseberry																			
P432P266B	Procure/Receive PXI for First Article Bench Test Equip Ph I - Part B	01-Sep-19 A	13-Sep-19 A	01-Sep-19	13-Sep-19	100%	0	\$0	Tom Roseberry																			
P432P900	Procure/Receive Duct/Fittings for First Article Bench Test Equip Ph I	09-Sep-19 A	27-Sep-19 A	09-Sep-19	27-Sep-19	100%	0	\$0	Tom Roseberry																			
P432P286	Procure/Receive Mirrors for First Article Bench Test Equip Ph I	09-Sep-19 A	08-Oct-19 A	09-Sep-19	08-Oct-19	100%	0	\$0	Tom Roseberry																			
P432P910	Procure/Receive Mirror Mounts for First Article Bench Test Equip Ph I	09-Sep-19 A	20-Sep-19 A	09-Sep-19	20-Sep-19	100%	0	\$0	Tom Roseberry																			
P432P930	Procure/Receive Simulated Window for First Article Bench Test Equip Ph I	09-Sep-19 A	21-Oct-19 A	09-Sep-19	21-Oct-19	100%	0	\$0	Tom Roseberry																			
P432P920	Procure/Receive Lens for First Article Bench Test Equip Ph I	01-Oct-19 A	14-Oct-19 A	01-Oct-19	14-Oct-19	100%	0	\$0	Tom Roseberry																			
P432P940	Procure/Receive Misc Hardware for First Article Bench Test Equip Ph I	01-Oct-19 A	14-Oct-19 A	01-Oct-19	14-Oct-19	100%	0	\$0	Tom Roseberry																			

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P432P950	Obtain Zemax Software License Renewal for First Article Bench Test Equip	14-Oct-19 A	16-Oct-19 A	14-Oct-19	16-Oct-19	100%	0	\$0	Tom Roseberry														
P432P760	Receipt Complete - First Article Bench Test Equip Components Ph I		21-Oct-19 A		21-Oct-19	100%	0	\$0	Tom Roseberry														
P04.03.02.02.02.02 Conduct First Article Bench Testing		15-Oct-19 A	30-Apr-21 A	15-Oct-19	26-Mar-21		0	\$21,061															
P432P870	Phase I - Refelectedivity Study (including set-up)	15-Oct-19 A	27-Dec-19 A	15-Oct-19	27-Dec-19	100%	0	\$0	Tom Roseberry														
P432P871	Phase I - Document Bench Testing	13-Jan-20 A	31-Mar-20 A	13-Jan-20	31-Mar-20	100%	0	\$0	Tom Roseberry														
P432P871B	Phase I - Document Bench Testing - Continued	01-Apr-20 A	01-May-20 A	01-Apr-20	01-May-20	100%	0	\$0	Tom Roseberry														
P432P80	Contrast Test in Tunnel	02-Nov-20 A	10-Feb-21 A	01-Feb-21	26-Mar-21	100%	0	\$3,948	Tom Roseberry														
P432P875	Finalize Bench Testing	02-Nov-20 A	22-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$13,049	Tom Roseberry														
P432P1103	Contrast Test in Tunnel (monitoring)	11-Feb-21 A	30-Apr-21 A			100%	0	\$4,064	Tom Roseberry														
P04.03.02.02.02.03 Design Fixtures and Luminescent Coating Application Test		01-Sep-20 A	14-Jul-21	01-Sep-20	13-May-21		25	\$22,922															
P432D325	Design Window Mask	01-Sep-20 A	30-Sep-20 A	01-Sep-20	30-Sep-20	100%	0	\$0	Tom Roseberry														
P432D315	Prepare Window Drawings & Specs	21-Sep-20 A	30-Oct-20 A	21-Sep-20	30-Oct-20	100%	0	\$0	Tom Roseberry														
P432D327	Procure Design Fixtures and Mask Luminescent Coating Application Test (Stonybrook)	02-Nov-20 A	13-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$1,534	Tom Roseberry														
P432D329	Procure Windows (PO will cover both Test Article and Installation Items)	02-Nov-20 A	07-Jan-21 A	02-Nov-20	18-Dec-20	100%	0	\$3,148	Tom Roseberry														
P432D997	Award PO - Design Fixtures and Mask Luminescent Coating Application Test	13-Nov-20 A	13-Nov-20 A	23-Nov-20	23-Nov-20	100%	0	\$0	Tom Roseberry														
P432D907	Set up Spray Booth and Program Robot - Stonybrook	16-Nov-20 A	01-Dec-20 A	17-Feb-21	23-Feb-21	100%	0	\$3,128	Tom Roseberry														
P432D1007	Award PO - Window Components for Test Article	08-Jan-21 A	11-Jan-21 A	04-Jan-21	04-Jan-21	100%	0	\$0	Tom Roseberry														
P432D867	Fabricate Outside Windows and Additional Components - Window Supplier	05-Feb-21 A	30-Apr-21 A	05-Jan-21	09-Apr-21	100%	0	\$0	Tom Roseberry														
P432D907adj	Set up Spray Booth and Program Robot - Stonybrook	01-Mar-21 A	01-Mar-21 A	03-Feb-21	03-Feb-21	100%	0	(\$3,120)	Tom Roseberry														
P432D897adj	Design and Fab of Hold Frame for SNS RID Window - Stonybrook	01-Mar-21 A	01-Mar-21 A	01-Feb-21	01-Feb-21	100%	0	(\$3,120)	Tom Roseberry														
P432D927adj	Perform Luminescent Coating Application Test at Stonybrook (PPU Support)	01-Mar-21 A	01-Mar-21 A	02-Feb-21	02-Feb-21	100%	0	(\$2,890)	Tom Roseberry														
P432D897	Design and Fab of Hold Frame for SNS RID Window - Stonybrook	01-Mar-21 A	01-Mar-21 A	24-Nov-20	06-Jan-21	100%	0	\$3,120	Tom Roseberry														
P432D927	Perform Luminescent Coating Application Test at Stonybrook (PPU Support)	01-Mar-21 A	01-Mar-21 A	24-Nov-20	21-Jan-21	100%	0	(\$2,890)	Tom Roseberry														
P432D877	Fabrication of Outside Windows and Additional Components Complete - Window Supplier		30-Apr-21 A		09-Apr-21	100%	0	\$0	Tom Roseberry														
P432D887	Receive Outside Windows and Additional Components (shipped to Stonybrook) - Window Supplier	09-Jun-21*	15-Jun-21	12-Apr-21	15-Apr-21	0%	5	\$11,804	Tom Roseberry														
P432D897new	Design and Fab of Hold Frame for SNS RID Window - Stonybrook	16-Jun-21	22-Jun-21	16-Apr-21	22-Apr-21	0%	5	\$2,080	Tom Roseberry														
P432D927new	Perform Luminescent Coating Application Test at Stonybrook (PPU Support)	16-Jun-21	14-Jul-21	16-Apr-21	13-May-21	0%	20	\$2,890	Tom Roseberry														
P432D907new	Set up Spray Booth and Program Robot - Stonybrook	23-Jun-21	29-Jun-21	23-Apr-21	29-Apr-21	0%	5	\$3,120	Tom Roseberry														
P432D917	Coating Deposition on Test SNS RID Window - Stonybrook	30-Jun-21	07-Jul-21	30-Apr-21	06-May-21	0%	5	\$4,118	Tom Roseberry														
P04.03.02.02.03 Design Reviews - Injection Dump Imaging System		05-Mar-19 A	23-Jun-20 A	05-Mar-19	23-Jun-20		0	\$0															
P432D225	Preliminary Design Review Meeting for Injection Dump Imaging System	05-Mar-19 A	05-Mar-19 A	05-Mar-19	05-Mar-19	100%	0	\$0	Tom Roseberry														
P432D135	Ready for Ring System Preliminary Design Review - Injection Dump Imaging System	06-Mar-19 A		06-Mar-19		100%	0	\$0	Tom Roseberry														
P432D265	Prepare for Final Design Review Meeting for Injection Dump Imaging System	15-Jun-20 A	16-Jun-20 A	15-Jun-20	16-Jun-20	100%	0	\$0	Tom Roseberry														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P432D275	Final Design Review Meeting for Injection Dump Imaging System - Docs Posted		16-Jun-20 A		16-Jun-20	100%	0	\$0	Tom Roseberry															
P432D245	Final Design Review Meeting for Injection Dump Imaging System	23-Jun-20 A	23-Jun-20 A	23-Jun-20	23-Jun-20	100%	0	\$0	Tom Roseberry															
P432D185	Ready for Ring System Final Design Review - Injection Dump Imaging System		23-Jun-20 A		23-Jun-20	100%	0	\$0	Tom Roseberry															
<b>P04.03.02.03 Procure/Fab - Injection Dump Imaging System - (NEP43230)</b>		<b>02-Nov-20 A</b>	<b>14-Oct-21</b>	<b>02-Nov-20</b>	<b>20-Aug-21</b>	<b>95</b>	<b>95</b>	<b>\$326,403</b>																
P432P856	Start Procurement - Injection Dump Imaging System	02-Nov-20 A		02-Nov-20		100%	0	\$0	Tom Roseberry															
P432P858	Start Procurement - Injection Dump Imaging System - Off-the-Shelf Components	11-Jan-21 A		11-Jan-21		100%	0	\$0	Tom Roseberry															
P432P860	Receipt of Materials Complete - Injection Dump Imaging System	14-Oct-21		26-Jul-21		0%	0	\$0	Tom Roseberry															
<b>P04.03.02.03.01 Procure/Fab Optical Components</b>		<b>11-Jan-21 A</b>	<b>13-Oct-21</b>	<b>11-Jan-21</b>	<b>20-Aug-21</b>	<b>95</b>	<b>95</b>	<b>\$169,610</b>																
P432P335	Procure/Receive Misc Mechanical Components	01-Feb-21 A	26-Feb-21 A	11-Jan-21	06-Apr-21	100%	0	\$5,662	Tom Roseberry															
P432P301	Procure/Receive Collimation Package	01-Mar-21 A	05-Mar-21 A	11-Jan-21	06-Apr-21	100%	0	\$1,034	Tom Roseberry															
P432P322	Procure/Receive Imaging Telescope Accessories	01-Mar-21 A	05-Mar-21 A	11-Jan-21	06-Apr-21	100%	0	\$4,622	Tom Roseberry															
P432P301adj	Procure/Receive Collimation Package	01-Mar-21 A	05-Mar-21 A	03-May-21	03-May-21	100%	0	(\$1,034)	Tom Roseberry															
P432P1022	Procure/Receive Misc Optical Components	01-Mar-21 A	31-Mar-21 A	11-Jan-21	06-Apr-21	100%	0	\$4,622	Tom Roseberry															
P432P1032	Procure/Receive Monolithic Mirror (Qty 2)	01-Mar-21 A	19-Aug-21	11-Jan-21	06-Apr-21	99%	57	\$10,152	Tom Roseberry															
P432P322adj	Procure/Receive Imaging Telescope Accessories	03-Mar-21 A	03-Mar-21 A	03-May-21	27-Jul-21	100%	0	(\$4,622)	Tom Roseberry															
P432P296	Procure/Receive Vacuum Viewport (qty 2)	15-Mar-21 A	31-Mar-21 A	11-Jan-21	06-Apr-21	100%	0	\$462	Tom Roseberry															
P432P296adj	Procure/Receive Vacuum Viewport (qty 2)	31-Mar-21 A	31-Mar-21 A	03-May-21	03-May-21	100%	0	\$3,147	Tom Roseberry															
P432P293	Procure/Receive Mirror Mounts (qty 1)	01-Apr-21 A	03-May-21 A	11-Jan-21	06-Apr-21	100%	0	\$2,419	Tom Roseberry															
P432P316	Procure/Receive Mirror (qty 1)	01-Apr-21 A	30-Apr-21 A	11-Jan-21	06-Apr-21	100%	0	\$1,377	Tom Roseberry															
P432P1042	Procure/Receive Alignment Laser	01-Apr-21 A	20-May-21 A	11-Jan-21	06-Apr-21	100%	0	\$2,074	Tom Roseberry															
P432P1052	Procure/Receive Power Supply for Illumination Light Source	01-Apr-21 A	30-Apr-21 A	11-Jan-21	06-Apr-21	100%	0	\$2,542	Tom Roseberry															
P432P1102	Procure/Receive Breadboard	01-Apr-21 A	25-Jun-21	03-May-21	21-May-21	5%	19	\$1,927	Tom Roseberry															
P432P316adj	Procure/Receive Mirror (qty 1)	30-Apr-21 A	30-Apr-21 A	03-May-21	03-May-21	100%	0	\$1,633	Tom Roseberry															
P432P293adj	Procure/Receive Mirror Mounts (qty 1)	03-May-21 A	03-May-21 A	03-May-21	03-May-21	100%	0	(\$605)	Tom Roseberry															
P432P1032adj	Procure/Receive Monolithic Mirror (Qty 2)	19-Aug-21	19-Aug-21	03-May-21	28-Jun-21	0%	1	\$20,176	Tom Roseberry															
<b>P04.03.02.03.01.01 Procure/Fab - Imaging Telescope</b>		<b>11-Jan-21 A</b>	<b>17-Sep-21</b>	<b>11-Jan-21</b>	<b>20-Aug-21</b>	<b>77</b>	<b>77</b>	<b>\$76,674</b>																
P432P320	Procure Imaging Telescope	11-Jan-21 A	24-Mar-21 A	11-Jan-21	01-Feb-21	100%	0	\$1,076	Tom Roseberry															
P432P1072	Fabricate Imaging Telescope	29-Mar-21 A	18-Aug-21	02-Feb-21	22-Jul-21	20%	56	\$0	Tom Roseberry															
P432P1082	Fabrication Complete - Imaging Telescope		18-Aug-21		22-Jul-21	0%	0	\$0	Tom Roseberry															
P432P1092	Receive Imaging Telescope	19-Aug-21	19-Aug-21	23-Jul-21	23-Jul-21	0%	1	\$63,856	Tom Roseberry															
P432P1112	Aceptance and Testing of Imaging Telescope	20-Aug-21	17-Sep-21	26-Jul-21	20-Aug-21	0%	20	\$11,742	Tom Roseberry															
<b>P04.03.02.03.01.02 Procure/Fab - Doghouse</b>		<b>01-Apr-21 A</b>	<b>31-Aug-21</b>	<b>03-May-21</b>	<b>18-Aug-21</b>	<b>65</b>	<b>65</b>	<b>\$21,904</b>																
P432P1122	Procure Doghouse	01-Apr-21 A	07-May-21 A	03-May-21	21-May-21	100%	0	\$1,104	Tom Roseberry															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P432P1132	Fabricate Doghouse	10-May-21 A	30-Aug-21	24-May-21	17-Aug-21	15%	64	\$0	Tom Roseberry															
P432P1142	Fabrication Complete - Doghouse		30-Aug-21		17-Aug-21	0%	0	\$0	Tom Roseberry															
P432P1152	Receive Doghouse	31-Aug-21	31-Aug-21	18-Aug-21	18-Aug-21	0%	1	\$20,800	Tom Roseberry															
<b>P04.03.02.03.01.03 Procure/Fab - Fabrication Vacuum Components</b>		<b>01-Apr-21 A</b>	<b>18-Jun-21</b>	<b>03-May-21</b>	<b>18-Aug-21</b>		<b>14</b>	<b>\$7,656</b>																
P432P1162	Procure Fabricated Vacuum Components	01-Apr-21 A	12-May-21 A	03-May-21	21-May-21	100%	0	\$1,104	Tom Roseberry															
P432P1172	Fabricate Fabricated Vacuum Components	13-May-21 A	17-Jun-21	24-May-21	17-Aug-21	30%	13	\$0	Tom Roseberry															
P432P1182	Fabrication Complete - Fabricated Vacuum Components		17-Jun-21		17-Aug-21	0%	0	\$0	Tom Roseberry															
P432P1192	Receive Fabricated Vacuum Components	18-Jun-21	18-Jun-21	18-Aug-21	18-Aug-21	0%	1	\$6,552	Tom Roseberry															
<b>P04.03.02.03.01.04 Procure/Fab - Fabricated Machined Components</b>		<b>07-Jun-21</b>	<b>13-Oct-21</b>	<b>03-May-21</b>	<b>18-Aug-21</b>		<b>91</b>	<b>\$7,792</b>																
P432P1202	Procure Fabricated Machined Components	07-Jun-21*	19-Jul-21	03-May-21	21-May-21	0%	30	\$1,104	Tom Roseberry															
P432P1212	Fabricate Fabricated Machined Components	20-Jul-21	12-Oct-21	24-May-21	17-Aug-21	0%	60	\$0	Tom Roseberry															
P432P1222	Fabrication Complete - Fabricated Machined Components		12-Oct-21		17-Aug-21	0%	0	\$0	Tom Roseberry															
P432P1232	Receive Fabricated Machined Components	13-Oct-21	13-Oct-21	18-Aug-21	18-Aug-21	0%	1	\$6,688	Tom Roseberry															
<b>P04.03.02.03.02 Procure/Fab Mechanical and Shielding Components</b>		<b>13-Nov-20 A</b>	<b>31-Aug-21</b>	<b>23-Nov-20</b>	<b>26-Jul-21</b>		<b>39</b>	<b>\$152,172</b>																
<b>P04.03.02.03.02.01 Procure/Fab Optics Path Tubing Assembly and Miscellaneous Components</b>		<b>01-Mar-21 A</b>	<b>09-Mar-21 A</b>	<b>11-Jan-21</b>	<b>26-Jul-21</b>		<b>0</b>	<b>\$27,581</b>																
P432P330	Procure Optics Path Tubing Assembly	01-Mar-21 A	05-Mar-21 A	11-Jan-21	01-Feb-21	100%	0	\$462	Tom Roseberry															
P432P330adj	Procure Optics Path Tubing Assembly	01-Mar-21 A	05-Mar-21 A	26-Jul-21	26-Jul-21	100%	0	(\$462)	Tom Roseberry															
P432P337	Fabricate Optics Path Tubing Assembly	08-Mar-21 A	08-Mar-21 A	02-Feb-21	22-Mar-21	100%	0	\$0	Tom Roseberry															
P432P338	Fabrication Complete - Optics Path Tubing Assembly		08-Mar-21 A		22-Mar-21	100%	0	\$0	Tom Roseberry															
P432P339	Receive Optics Path Tubing Assembly	09-Mar-21 A	09-Mar-21 A	23-Mar-21	23-Mar-21	100%	0	\$13,790	Tom Roseberry															
P432P339adj	Receive Optics Path Tubing Assembly	09-Mar-21 A	09-Mar-21 A	26-Jul-21	26-Jul-21	100%	0	\$13,790	Tom Roseberry															
<b>P04.03.02.03.02.02 Procure/Fab Injection Dump Windows</b>		<b>13-Nov-20 A</b>	<b>31-Aug-21</b>	<b>23-Nov-20</b>	<b>01-Jul-21</b>		<b>39</b>	<b>\$124,591</b>																
P432P977	Award PO Coating of Two Outside Windows - Stonybrook	13-Nov-20 A	13-Nov-20 A	23-Nov-20	23-Nov-20	100%	0	\$579	Tom Roseberry															
P432P987	Award PO Windows for Installation	08-Jan-21 A	11-Jan-21 A	04-Jan-21	04-Jan-21	100%	0	\$579	Tom Roseberry															
P432P790	Fabricate and Partial Assembly of Window Assembly and Window/Flange Weldment	05-Mar-21 A	31-Mar-21 A	05-Mar-21	15-Apr-21	100%	0	\$0	Tom Roseberry															
P432P937	Coating Deposition on Two Outside Windows - Stonybrook	08-Jul-21	14-Jul-21	07-May-21	13-May-21	0%	5	\$0	Tom Roseberry															
P432P947	Receive Two Coated Outside Windows from Stonybrook - shipped to Window Supplier	15-Jul-21	20-Jul-21	14-May-21	19-May-21	0%	4	\$8,362	Tom Roseberry															
P432P793	Complete Final Assembly of the Window Assembly and Window/Flange Weldment	21-Jul-21	24-Aug-21	20-May-21	24-Jun-21	0%	25	\$0	Tom Roseberry															
P432P979	Fabrication Complete - Injection Dump Window Assembly for Installation		24-Aug-21		24-Jun-21	0%	0	\$0	Tom Roseberry															
P432P954	Fabrication Complete - Window/Flange Weldment (Spare)		24-Aug-21		24-Jun-21	0%	0	\$0	Tom Roseberry															
P432P957	Receive Injection Dump Window Assembly (for Installation)	25-Aug-21	31-Aug-21	25-Jun-21	01-Jul-21	0%	5	\$73,294	Tom Roseberry															
P432P967	Receive Injection Dump Window/Flange Weldment (Spare)	25-Aug-21	31-Aug-21	25-Jun-21	01-Jul-21	0%	5	\$41,777	Tom Roseberry															
<b>P04.03.02.03.03 Procure/Fab Data Acquisition and Controls Components</b>		<b>04-May-21 A</b>	<b>11-Jun-21</b>	<b>11-Jan-21</b>	<b>07-May-21</b>		<b>9</b>	<b>\$4,622</b>																

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P432P400	Procure Data Acquisition and Controls Components	04-May-21 A	13-May-21 A	11-Jan-21	01-Feb-21	100%	0	\$462	Tom Roseberry														
P432P555	Fabricate Data Acquisition and Controls Components	14-May-21 A	10-Jun-21	02-Feb-21	29-Mar-21	30%	8	\$0	Tom Roseberry														
P432P558	Fabrication of Data Acquisition and Controls Components complete		10-Jun-21		29-Mar-21	0%	0	\$0	Tom Roseberry														
P432P740	Receive Data Acquisition and Controls Components	11-Jun-21	11-Jun-21	30-Mar-21	06-Apr-21	0%	1	\$17,680	Tom Roseberry														
P432P740adj	Procure/Receive Data Acquisition and Controls Components	11-Jun-21	11-Jun-21	03-May-21	07-May-21	0%	1	(\$13,520)	Tom Roseberry														
<b>P04.03.02.04 Installation - Injection Dump Imaging System - (NEP43240)</b>		<b>01-Mar-21 A</b>	<b>13-Jun-22</b>	<b>07-Apr-21</b>	<b>13-Jun-22</b>		<b>256</b>	<b>\$190,609</b>															
P4321187	Perform Initial Programming of Data Acquisition and Controls Components (original)	01-Mar-21 A	05-Mar-21 A	07-Apr-21	30-Apr-21	100%	0	\$2,710	Tom Roseberry														
P4321233	Perform Refinement and Testing of Optical Flight Path	01-Mar-21 A	05-Mar-21 A	07-Apr-21	30-Apr-21	100%	0	\$2,439	Tom Roseberry														
P4321261	Perform Initial Programming of Data Acquisition and Controls Components (adjustment)	01-Mar-21 A	05-Mar-21 A	04-May-21	28-Jul-21	100%	0	(\$2,710)	Tom Roseberry														
P4321233adj	Perform Refinement and Testing of Optical Flight Path	01-Mar-21 A	05-Mar-21 A	03-May-21	28-Jun-21	100%	0	(\$2,439)	Tom Roseberry														
P4321241	Perform Work Planning for IDIS Installation	24-May-21 A	06-Jul-21	03-May-21	14-Jun-21	25%	25	\$12,849	Tom Roseberry														
P4321271	Perform Initial Programming of Data Acquisition and Controls Components	14-Jun-21	07-Sep-21	10-May-21	03-Aug-21	0%	60	\$9,032	Tom Roseberry														
P4321242	Perform Work Planning for IDIS Installation (including JHE, RWP, work orders)	07-Jul-21	17-Aug-21	06-Jul-21	16-Aug-21	0%	30	\$24,361	Tom Roseberry														
P4321176	Conduct Work planning for flight tube work	13-Jul-21	19-Jul-21	08-Jun-21	14-Jun-21	0%	5	\$538	Tom Roseberry														
P4321231	Perform Refinement and Testing of Data Acquisition and Controls Components	08-Sep-21	02-Nov-21	03-May-21	28-Jun-21	0%	40	\$5,543	Tom Roseberry														
P4321233new	Perform Refinement and Testing of Optical Flight Path	20-Sep-21	15-Oct-21	23-Aug-21	20-Sep-21	0%	20	\$11,992	Tom Roseberry														
P4321251	Confirm Cool Down Period is Complete - FY22B Outage	21-Mar-22	23-Mar-22	21-Mar-22	23-Mar-22	0%	3	\$517	Tom Roseberry														
P4321221	Unstack Shielding to Support Injection Dump Components Installation	24-Mar-22	25-Mar-22	24-Mar-22	25-Mar-22	0%	2	\$8,072	Tom Roseberry														
P4321181	RCT Coverage for Demo and Installation	24-Mar-22	13-May-22	24-Mar-22	13-May-22	0%	36	\$32,365	Tom Roseberry														
P4321150	Modify Existing Flight Tube (cut, prep, weld)	28-Mar-22	01-Apr-22	28-Mar-22	01-Apr-22	0%	5	\$5,640	Tom Roseberry														
P4321160	Leak Check Flight Tube and Address Leaks	04-Apr-22	05-Apr-22	04-Apr-22	05-Apr-22	0%	2	\$2,130	Tom Roseberry														
P4321170	Install Optical Components	06-Apr-22	27-Apr-22	06-Apr-22	27-Apr-22	0%	15	\$22,253	Tom Roseberry														
P4321180	Install Mechanical Components (including doghouse)	06-Apr-22	27-Apr-22	06-Apr-22	27-Apr-22	0%	15	\$7,558	Tom Roseberry														
P4321185	Install Data Acquisition and Controls Components	06-Apr-22	27-Apr-22	06-Apr-22	27-Apr-22	0%	15	\$16,390	Tom Roseberry														
P4321171	Injection Dump Imaging System Integration & Testing (including final alignment & leak check)	28-Apr-22	11-May-22	28-Apr-22	11-May-22	0%	10	\$12,739	Tom Roseberry														
P4321222	Restack Shielding to Support Injection Dump Components Installation	12-May-22	13-May-22	12-May-22	13-May-22	0%	2	\$8,072	Tom Roseberry														
P4324IMS001	P.04.03.02.04 Injection Dump Imaging System_Installation Testing Complete		13-May-22		13-May-22	0%	0	\$0	Tom Roseberry														
P4321195	Prepare Operational Procedures for Injection Dump Imaging System (with EDM Screens)	16-May-22	13-Jun-22	16-May-22	13-Jun-22	0%	20	\$10,561	Tom Roseberry														
<b>P04.03.03 Injection Dump Engineering Review</b>		<b>18-Jun-18 A</b>	<b>30-Oct-20 A</b>	<b>18-Jun-18</b>	<b>30-Oct-20</b>		<b>0</b>	<b>\$0</b>															
<b>P04.03.03.02 Design - Injection Dump Engineering Review - (NEP43320)</b>		<b>18-Jun-18 A</b>	<b>30-Oct-20 A</b>	<b>18-Jun-18</b>	<b>30-Oct-20</b>		<b>0</b>	<b>\$0</b>															
P433D100	Perform Benchmark Analysis	18-Jun-18 A	28-Sep-18 A	18-Jun-18	28-Sep-18	100%	0	\$0	Tom Roseberry														
P433D110	Perform Benchmark Analysis - Continued	01-Oct-18 A	21-Nov-18 A	01-Oct-18	21-Nov-18	100%	0	\$0	Tom Roseberry														
P433D320	Review Benchmark Analysis and Compare to Recorded Temperatures - Part A	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	\$0	Tom Roseberry														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29														
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
P433D130	Document Benchmark Analysis - Part A	28-Dec-18 A	31-Mar-19 A	28-Dec-18	31-Mar-19	100%	0	\$0	Tom Roseberry																												
P433D320B	Review Benchmark Analysis and Compare to Recorded Temperatures - Part B	01-Apr-19 A	06-May-19 A	01-Apr-19	06-May-19	100%	0	\$0	Tom Roseberry																												
P433D140	Decision Point: Proceed with Scaling Analysis or Maintain Current Power Rating	30-Apr-19 A	06-May-19 A	30-Apr-19	06-May-19	100%	0	\$0	Tom Roseberry																												
P433D170	Perform Scaling Analyses	02-May-19 A	24-Jul-19 A	02-May-19	24-Jul-19	100%	0	\$0	Tom Roseberry																												
P433D180	Review Scaling Analysis	25-Jul-19 A	29-Jul-19 A	25-Jul-19	29-Jul-19	100%	0	\$0	Tom Roseberry																												
P433D130B	Document Benchmark and Scaling Analyses - Part B	30-Jul-19 A	31-Aug-19 A	30-Jul-19	31-Aug-19	100%	0	\$0	Tom Roseberry																												
P433D130C	Document Benchmark - Technical Report	02-Sep-19 A	31-Mar-20 A	02-Sep-19	31-Mar-20	100%	0	\$0	Tom Roseberry																												
P433D135	Identify and Incorporate Refinement/Corrections to Analytical Model	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Tom Roseberry																												
P433D135-1a	Python Data Translation Utility from MCNP to CFX	05-Dec-19 A	31-Mar-20 A	05-Dec-19	31-Mar-20	100%	0	\$0	Tom Roseberry																												
P433D135-1b	CFX RID Model Calibration for Varying Beam Energy	05-Dec-19 A	31-Mar-20 A	05-Dec-19	31-Mar-20	100%	0	\$0	Tom Roseberry																												
P433D135-1c	Use Calibrated Model for Projected Baseline Operation	05-Dec-19 A	31-Mar-20 A	05-Dec-19	31-Mar-20	100%	0	\$0	Tom Roseberry																												
P433D135-2a	Build Integrated Model	05-Dec-19 A	31-Mar-20 A	05-Dec-19	31-Mar-20	100%	0	\$0	Tom Roseberry																												
P433D135B	Identify and Incorporate Refinement/Corrections to Analytical Model - Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Tom Roseberry																												
P433D135-1a10	Python Data Translation Utility from MCNP to CFX - Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Tom Roseberry																												
P433D135-1b10	CFX RID Model Calibration for Varying Beam Energy - Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Tom Roseberry																												
P433D135-1c10	Use Calibrated Model for Projected Baseline Operation - Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Tom Roseberry																												
P433D135-2a10	Build Integrated Model - Continued	01-May-20 A	28-Jul-20 A	01-May-20	28-Jul-20	100%	0	\$0	Tom Roseberry																												
P433D130C1	Document Benchmark - Technical Report - Continued	01-May-20 A	30-Oct-20 A	01-May-20	30-Oct-20	100%	0	\$0	Tom Roseberry																												
P433D135-4a	Design Analysis Calculation	28-Sep-20 A	30-Oct-20 A	28-Sep-20	30-Oct-20	100%	0	\$0	Tom Roseberry																												
<b>P04.04 Extraction Region</b>		03-Oct-16 A	24-Jul-23	03-Oct-16	24-Jul-23		530	\$1,091,964																													
P0404IT02	P.04.04 Extraction Region - Integrated System Testing for Phase 2 Complete		22-Jun-23		22-Jun-23	0%	0	\$0	Robert Saethre																												
P0404DOC2	P.04.04 Extraction Region - Documentation for ARR for Phase 2 Complete		24-Jul-23		24-Jul-23	0%	0	\$0	Robert Saethre																												
<b>P04.04.01 Management and System Integration</b>		03-Oct-16 A	24-Jul-23	03-Oct-16	24-Jul-23		530	\$89,375																													
<b>P04.04.01.01 Management and System Integration - Extraction Region - (NEP44110)</b>		03-Oct-16 A	24-Jul-23	03-Oct-16	24-Jul-23		530	\$89,375																													
P441M100	WBS P.4.4 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre																												
P441M110	WBS P.4.4 Management FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre																												
P441M120	WBS P.4.4 Management FY18 (May through Sept)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre																												
P441M130	WBS P.4.4 Management FY19 (LOE) - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Robert Saethre																												
P441M130B	WBS P.4.4 Management FY19 (LOE) - Part B - Part A	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P441M130C	WBS P.4.4 Management FY19 (LOE) - Part C	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Robert Saethre																												
P441M140	WBS P.4.4 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Robert Saethre																												
P441M140B	WBS P.4.4 Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Robert Saethre																												
P441M150	WBS P.4.4 Management FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Robert Saethre																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
										F	F	F	F	F	F	F	F	F	F	F	F	F
P441M150b	WBS P.4.4 Management FY21 (LOE) - continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$20,372	Robert Saethre													
P441M160	WBS P.4.4 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$23,125	Robert Saethre													
P441M170	WBS P.4.4 Management FY23 (LOE)	03-Oct-22	21-Jun-23	03-Oct-22	21-Jun-23	0%	176	\$20,816	Robert Saethre													
P441MDOC2	P.04.04 Extraction Region - Compile Documentation for IRR/ERR Phase 2 (LOE)	23-Jun-23	24-Jul-23	23-Jun-23	24-Jul-23	0%	20	\$25,062	Robert Saethre													
P04.04.01.01.01 Magnets - CAM Management		03-Oct-16 A	28-Sep-18 A	03-Oct-16	28-Sep-18		0	\$0														
P442M1	CAM Management FY17 - Magnets P.04.04.02	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre													
P442M36M	CAM Management FY18 (Oct through Apr) - Magnets P.04.04.02	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre													
P442M6	CAM Management FY18 (May through Sept) - Magnets P.04.04.02	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre													
P04.04.01.01.02 Power Supplies - CAM Management		03-Oct-16 A	28-Sep-18 A	03-Oct-16	28-Sep-18		0	\$0														
P443M1	CAM Management FY17 - Power Supplies P.04.04.03	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre													
P443M41M	CAM Management FY18 (Oct through Apr) - Power Supplies P.04.04.03	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre													
P443M6	CAM Management FY18 (May through Sept) - Power Supplies P.04.04.03	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre													
P04.04.01.01.03 Vacuum System - CAM Management		03-Oct-16 A	28-Sep-18 A	03-Oct-16	28-Sep-18		0	\$0														
P444M31	CAM Management FY17 - Vacuum System P.04.04.04	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Robert Saethre													
P444M41M	CAM Management FY18 (Oct through Apr) - Vacuum System P.04.04.04	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Robert Saethre													
P444M1	CAM Management FY18 (May through Sept) - Vacuum System P.04.04.04	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Robert Saethre													
P04.04.02 Extraction Region Magnets		04-Sep-18 A	30-Mar-23	04-Sep-18	30-Mar-23		307	\$132,375														
P04.04.02.02 Design - Extraction Region Magnets - (NEP44220)		04-Sep-18 A	11-Jan-22	04-Sep-18	16-Feb-21		5	\$61,983														
P442D300	Prepare SOW to perform analysis of 1.3 GeV beam through the extraction septum - Part 1	04-Sep-18 A	28-Sep-18 A	04-Sep-18	28-Sep-18	100%	0	\$0	Robert Saethre													
P442D310	Prepare SOW to perform analysis of 1.3 GeV beam through the extraction septum - Continued	01-Oct-18 A	07-Nov-18 A	01-Oct-18	07-Nov-18	100%	0	\$0	Robert Saethre													
P442D320	Award Contract for Perform Analysis of 1.3 GeV beam through the extraction septum	07-Dec-18 A	07-Dec-18 A	07-Dec-18	07-Dec-18	100%	0	\$0	Robert Saethre													
P442D380	FNAL Perform Analysis of 1.3 GeV beam through the extraction septum - Part A	18-Dec-18 A	31-Mar-19 A	18-Dec-18	31-Mar-19	100%	0	\$0	Robert Saethre													
P442D360	FNAL Develop cost and schedule estimate of 1.3 GeV beam through the extraction septum -Part A	18-Dec-18 A	31-Mar-19 A	18-Dec-18	31-Mar-19	100%	0	\$0	Robert Saethre													
P442D360B	FNAL Develop cost and schedule estimate of 1.3 GeV beam through the extraction septum -Part B	01-Apr-19 A	19-Jun-19 A	01-Apr-19	19-Jun-19	100%	0	\$0	Robert Saethre													
P442D380B	FNAL Perform Analysis of 1.3 GeV beam through the extraction septum - Part B	03-Apr-19 A	28-Jun-19 A	03-Apr-19	28-Jun-19	100%	0	\$0	Robert Saethre													
P442D370	Receive cost and scheduling estimate of 1.3 GeV beam through the extraction septum from FNAL		19-Jun-19 A		19-Jun-19	100%	0	\$0	Robert Saethre													
P442D380B10	FNAL Perform Analysis of 1.3 GeV beam through the extraction septum - Part C	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Robert Saethre													
P442D380B20	FNAL Perform Analysis of 1.3 GeV beam through the extraction septum - Part C - Continued	01-Apr-20 A	31-Oct-20 A	01-Apr-20	31-Oct-20	100%	0	\$0	Robert Saethre													
P442D330	SNS Partide tracking through new ExtSptm and Ekickers	13-Jul-20 A	31-Oct-20 A	13-Jul-20	31-Oct-20	100%	0	\$0	Robert Saethre													
P442D400	SNS Review results of Analysis of 1.3 GeV beam through the extraction septum	02-Nov-20 A	13-Nov-20 A	02-Nov-20	13-Nov-20	100%	0	\$571	Robert Saethre													
P442D380B20b	FNAL Perform Analysis of 1.3 GeV beam through the extraction septum - continued	02-Nov-20 A	19-Jan-21 A	02-Nov-20	19-Jan-21	75%	0	\$28,931	Robert Saethre													
P442D330b	SNS Partide tracking through new ExtSptm and Ekickers - continued	02-Nov-20 A	30-Nov-20 A	02-Nov-20	30-Nov-20	100%	0	\$8,287	Robert Saethre													
P442D385	SNS Partide tracking through new ExtSptm and Ekickers - Verify As-Built Dimensions	04-Jan-21 A	12-Feb-21 A	01-Dec-20	19-Jan-21	100%	0	\$4,192	Robert Saethre													



May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 10:09													
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P442D420	FNAL Finalize Shim Drawings and Calcs	15-Feb-21 A	31-Mar-21 A	20-Jan-21	09-Feb-21	100%	0	\$10,499	Robert Saethre															
P442D387	SNS Particle tracking through new ExtSptm and Ekickers - Incorporate Changes from Verification	15-Feb-21 A	26-Feb-21 A	20-Jan-21	09-Feb-21	100%	0	\$2,571	Robert Saethre															
P442D390	Receive all deliverables for Analysis of 1.3 GeV beam through the extraction septum from FNAL		31-Mar-21 A		19-Jan-21	100%	0	\$0	Robert Saethre															
P424D690	Prepare Extraction Septum Lambertson Shims Design	05-Jan-22	07-Jan-22	10-Feb-21	12-Feb-21	0%	3	\$4,160	Robert Saethre															
P424D680	Prepare Extraction Septum Lambertson Shims Installation Assembly	10-Jan-22	11-Jan-22	15-Feb-21	16-Feb-21	0%	2	\$2,773	Robert Saethre															
P04.04.02.03 Procure/Fab - Extraction Region Magnets		29-Apr-22	18-Aug-22	16-May-22	02-Sep-22		78	\$14,106																
P04.04.02.03.01 Extraction Septum Lambertson Shims		29-Apr-22	18-Aug-22	16-May-22	02-Sep-22		78	\$14,106																
P442P120	Procure Extraction Septum Lambertson Shims	29-Apr-22	19-May-22	16-May-22	06-Jun-22	0%	15	\$481	Robert Saethre															
P442P123	Fabricate Extraction Septum Lambertson Shims	20-May-22	15-Aug-22	07-Jun-22	30-Aug-22	0%	60	\$0	Robert Saethre															
P442P126	Fabrication of Extraction Septum Lambertson Shims Complete		15-Aug-22		30-Aug-22	0%	0	\$0	Robert Saethre															
P442P129	Receive Extraction Septum Lambertson Shims	16-Aug-22	18-Aug-22	31-Aug-22	02-Sep-22	0%	3	\$13,624	Robert Saethre															
P04.04.02.04 Installation - Extraction Region Magnets		17-Mar-23	30-Mar-23	17-Mar-23	30-Mar-23		10	\$56,286																
P442I200	Install extraction lambertson septum shims	17-Mar-23	30-Mar-23	17-Mar-23	30-Mar-23	0%	10	\$56,286	Robert Saethre															
P04.04.03 Power Supplies		05-Apr-18 A	22-Jun-23	05-Apr-18	22-Jun-23		362	\$870,214																
P443MS005	Extraction Kicker System - Final Design Review Meeting - Completed		14-Jan-20 A		14-Jan-20	100%	0	\$0	Robert Saethre															
P04.04.03.02 Design - Power Supplies - (NEP44320)		05-Apr-18 A	28-May-21 A	05-Apr-18	01-Jun-21		0	\$55,859																
P443D100	Fabricate Extraction kicker power supply resonant charging proof-of-concept - Part 1	05-Apr-18 A	30-Apr-18 A	05-Apr-18	30-Apr-18	100%	0	\$0	Robert Saethre															
P443D100B	Fabricate Extraction kicker power supply resonant charging proof-of-concept - Part 2	01-May-18 A	29-May-18 A	01-May-18	29-May-18	100%	0	\$0	Robert Saethre															
P443D110	Complete Fabrication of Extraction kicker power supply resonant charging proof-of-concept		29-May-18 A		29-May-18	100%	0	\$0	Robert Saethre															
P443D120	Perform Testing on Extraction kicker power supply resonant charging proof-of-concept	30-May-18 A	03-Aug-18 A	30-May-18	03-Aug-18	100%	0	\$0	Robert Saethre															
P443D160	Prepare Preliminary Design - Resonant Charging Power Supply	03-Aug-18 A	11-Sep-18 A	03-Aug-18	11-Sep-18	100%	0	\$0	Robert Saethre															
P443D130	Complete Testing on Extraction kicker power supply resonant charging proof-of-concept		03-Aug-18 A		03-Aug-18	100%	0	\$0	Robert Saethre															
P443D170	Develop Extraction kicker power supply resonant charging Test Article - Part 1	06-Aug-18 A	28-Sep-18 A	06-Aug-18	28-Sep-18	100%	0	\$0	Robert Saethre															
P443D140	Preliminary Design Review Meeting - Resonant Charging Power Supply	11-Sep-18 A	11-Sep-18 A	11-Sep-18	11-Sep-18	100%	0	\$0	Robert Saethre															
P443D180	Develop Extraction kicker power supply resonant charging Test Article - Continued	01-Oct-18 A	27-Dec-18 A	01-Oct-18	27-Dec-18	100%	0	\$0	Robert Saethre															
P443D150	Ready for Ring Systems Preliminary Design Review Meeting - Extraction Region Magnets (Resonant Charging Power Supply)	27-Dec-18 A		27-Dec-18		100%	0	\$0	Robert Saethre															
P04.04.03.02.01 Extraction Kicker Power Supply Upgrade		18-Dec-18 A	28-May-21 A	18-Dec-18	01-Jun-21		0	\$55,859																
P04.04.03.02.01.01 Develop Final Design - Resonant Charging Power Supply (RCPS)		18-Dec-18 A	28-May-21 A	18-Dec-18	01-Jun-21		0	\$55,859																
P443D310	Design RCPS control board	18-Dec-18 A	11-Mar-19 A	18-Dec-18	11-Mar-19	100%	0	\$0	Robert Saethre															
P443D410	Determine if new capacitors are required in PFN - Part A	25-Jan-19 A	31-Mar-19 A	25-Jan-19	31-Mar-19	100%	0	\$0	Robert Saethre															
P443D380	Design RCPS interlocks	26-Feb-19 A	11-Mar-19 A	26-Feb-19	11-Mar-19	100%	0	\$0	Robert Saethre															
P443D390	Design RCPS cooling	26-Feb-19 A	25-Mar-19 A	26-Feb-19	25-Mar-19	100%	0	\$0	Robert Saethre															
P443D400	Design bias power supply	26-Feb-19 A	04-Mar-19 A	26-Feb-19	04-Mar-19	100%	0	\$0	Robert Saethre															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY Budgets																											
										FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016	FY2016
P443D450	Select HVPS vendor	26-Feb-19 A	18-Mar-19 A	26-Feb-19	18-Mar-19	100%	0	\$0	Robert Saethre																												
P443D320	Procure first article RCPS control board	12-Mar-19 A	29-Mar-19 A	12-Mar-19	29-Mar-19	100%	0	\$0	Robert Saethre																												
P443D460	Write specification for HVPS - Part A	25-Mar-19 A	31-Mar-19 A	25-Mar-19	31-Mar-19	100%	0	\$0	Robert Saethre																												
P443D550	Procure first article HVPS 1	01-Apr-19 A	01-Apr-19 A	01-Apr-19	01-Apr-19	100%	0	\$0	Robert Saethre																												
P443D560	Fabricate first article HVPS 1	01-Apr-19 A	15-Jul-19 A	01-Apr-19	15-Jul-19	100%	0	\$0	Robert Saethre																												
P443D323	Fabricate first article RCPS control board	01-Apr-19 A	26-Apr-19 A	01-Apr-19	26-Apr-19	100%	0	\$0	Robert Saethre																												
P443D410B	Determine if new capacitors are required in PFN - Part B	01-Apr-19 A	18-Apr-19 A	01-Apr-19	18-Apr-19	100%	0	\$0	Robert Saethre																												
P443D460B	Write specification for HVPS - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D300	Write RCPS Design Criteria Document - Part A	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D370	Design RCPS PLC interface - Part A	22-Apr-19 A	31-Aug-19 A	22-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D500	Update PFN tank drawings - Part A	22-Apr-19 A	31-Aug-19 A	22-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D375	Design RCPS EPICs interface - Part A	22-Apr-19 A	31-Aug-19 A	22-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D350	Design mechanical hardware - Part A	22-Apr-19 A	31-Aug-19 A	22-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D325	Fabrication of first article RCPS control board complete		26-Apr-19 A		26-Apr-19	100%	0	\$0	Robert Saethre																												
P443D328	Receive first article RCPS control board	29-Apr-19 A	29-Apr-19 A	29-Apr-19	29-Apr-19	100%	0	\$0	Robert Saethre																												
P443D360	Design RCPS control cabling - Part A	30-Apr-19 A	31-Aug-19 A	30-Apr-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D330	Test first article RCPS control board	30-Apr-19 A	18-Jul-19 A	30-Apr-19	18-Jul-19	100%	0	\$0	Robert Saethre																												
P443D552	Procure first article HVPS 2 (order cancelled by Buyer)	03-May-19 A	03-Jun-19 A	03-May-19	03-Jun-19	100%	0	\$0	Robert Saethre																												
P443D490	Design HVPS EPICs interface	13-May-19 A	30-Aug-19 A	13-May-19	30-Aug-19	100%	0	\$0	Robert Saethre																												
P443D470	Design HVPS Control interface - Part A	20-May-19 A	31-Aug-19 A	20-May-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D340	Release RCPS control board schematics - Part A	24-May-19 A	31-Aug-19 A	24-May-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D480	Design HVPS AC Power input - Part A	28-May-19 A	31-Aug-19 A	28-May-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D562	Fabricate first article HVPS 2 (order cancelled by Buyer)	03-Jun-19 A	23-Aug-19 A	03-Jun-19	23-Aug-19	100%	0	\$0	Robert Saethre																												
P443D570	Receive first article HVPS 1	16-Jul-19 A	18-Jul-19 A	16-Jul-19	18-Jul-19	100%	0	\$0	Robert Saethre																												
P443D580	Test first article HVPS 1 - Part A	18-Jul-19 A	31-Aug-19 A	18-Jul-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D530	Update rack drawings - Part A	26-Aug-19 A	31-Aug-19 A	26-Aug-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D540	Update system level schematics - Part A	26-Aug-19 A	31-Aug-19 A	26-Aug-19	31-Aug-19	100%	0	\$0	Robert Saethre																												
P443D460C	Write specification for HVPS - Part C	01-Sep-19 A	06-Dec-19 A	01-Sep-19	06-Dec-19	100%	0	\$0	Robert Saethre																												
P443D670	Receive loaner HVPS 2	03-Sep-19 A	06-Sep-19 A	03-Sep-19	06-Sep-19	100%	0	\$0	Robert Saethre																												
P443D610	Procure first article HVPS 2 (re-bid - original order cancelled by Buyer)	03-Sep-19 A	03-Sep-19 A	03-Sep-19	03-Sep-19	100%	0	\$0	Robert Saethre																												
P443D620	Fabricate first article HVPS 2 (re-bid - original order cancelled by Buyer)	04-Sep-19 A	10-Oct-19 A	04-Sep-19	10-Oct-19	100%	0	\$0	Robert Saethre																												
P443D582	Test loaner HVPS 2	09-Sep-19 A	04-Oct-19 A	09-Sep-19	04-Oct-19	100%	0	\$0	Robert Saethre																												
P443D350B	Design mechanical hardware - Part B	16-Sep-19 A	31-Mar-20 A	16-Sep-19	31-Mar-20	100%	0	\$0	Robert Saethre																												







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Allocation																									
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P443P745	Perform incoming inspection and testing of RCPS transformer and diode - 14x Operational	23-May-22	06-Jun-22	23-May-22	06-Jun-22	0%	10	\$11,667	Robert Saethre																										
P443P750	Perform incoming inspection and testing of RCPS transformer and diode - 4x Spares	23-May-22	06-Jun-22	23-May-22	06-Jun-22	0%	10	\$3,623	Robert Saethre																										
<b>P04.04.03.04 Installation - Power Supplies</b>		<b>01-Mar-23</b>	<b>22-Jun-23</b>	<b>01-Mar-23</b>	<b>22-Jun-23</b>		<b>80</b>	<b>\$199,146</b>																											
P443I200	Install RCPS	01-Mar-23	03-May-23	01-Mar-23	03-May-23	0%	45	\$44,889	Robert Saethre																										
P443I210	Install HVPS in PLC Racks	01-Mar-23	03-May-23	01-Mar-23	03-May-23	0%	45	\$44,889	Robert Saethre																										
P443I220	Install RCPS Cooling	01-Mar-23	03-May-23	01-Mar-23	03-May-23	0%	45	\$19,768	Robert Saethre																										
P443I230	Install PLC Code	04-May-23	10-May-23	04-May-23	10-May-23	0%	5	\$16,110	Robert Saethre																										
P443I240	Install EPICs Coding	11-May-23	11-May-23	11-May-23	11-May-23	0%	1	\$3,222	Robert Saethre																										
P443I260	Perform E-Kicker PRN testing 1-14	11-May-23	24-May-23	11-May-23	24-May-23	0%	10	\$31,107	Robert Saethre																										
P443I270	Perform E-Kicker PRN full system testing	25-May-23	08-Jun-23	25-May-23	08-Jun-23	0%	10	\$31,107	Robert Saethre																										
P443I280	Perform E-Kicker PRN full system testing complete		08-Jun-23		08-Jun-23	0%	0	\$0	Robert Saethre																										
P443I285	Extraction Region Integrated System Testing	09-Jun-23	22-Jun-23	09-Jun-23	22-Jun-23	0%	10	\$8,055	Robert Saethre																										
P4434IMS001	P.04.04.03.04_Extraction Kicker Power Supply Upgrade_Installation Complete		22-Jun-23		22-Jun-23	0%	0	\$0	Robert Saethre																										
<b>P04.05 Utilities</b>		<b>03-Oct-16 A</b>	<b>22-Jun-23</b>	<b>03-Oct-16</b>	<b>22-Jun-23</b>		<b>510</b>	<b>\$1,329,228</b>																											
P0405IT02	P.04.05 Utilities - Integrated System Testing for Phase 2 Complete		24-May-23		24-May-23	0%	0	\$0	Greg Noman																										
P0405DOC2	P.04.05 Utilities - Documentation for ARR for Phase 2 Complete		22-Jun-23		22-Jun-23	0%	0	\$0	Greg Noman																										
<b>P04.05.01 Management and System Integration</b>		<b>03-Oct-16 A</b>	<b>22-Jun-23</b>	<b>03-Oct-16</b>	<b>22-Jun-23</b>		<b>510</b>	<b>\$67,564</b>																											
<b>P04.05.01.01 Management and System Integration - Utilities - (NEP45110)</b>		<b>03-Oct-16 A</b>	<b>22-Jun-23</b>	<b>03-Oct-16</b>	<b>22-Jun-23</b>		<b>510</b>	<b>\$67,564</b>																											
P453M1	CAM management FY17 - Water P.04.05.03	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Greg Noman																										
P451M1	WBS P.4.5 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Greg Noman																										
P451M26M	WBS P.4.5 Management FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Greg Noman																										
P453M26M	CAM management FY18 (Oct through Apr) - Water P.04.05.03	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Greg Noman																										
P453M6	CAM management FY18 (May through Sept) - Water P.04.05.03	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Greg Noman																										
P451M6	WBS P.4.5 Management FY18 (May through Sept)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Greg Noman																										
P451M100	WBS P.4.5 Management FY19 (LOE) - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Greg Noman																										
P451M100B	WBS P.4.5 Management FY19 (LOE) - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Greg Noman																										
P451M100C	WBS P.4.5 Management FY19 (LOE) - Part C	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Greg Noman																										
P451M110	WBS P.4.5 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Noman																										
P451M110B	WBS P.4.5 Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Noman																										
P451M120	WBS P.4.5 Management FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Greg Noman																										
P451M120b	WBS P.4.5 Management FY21 (LOE) - continued	02-Nov-20 A	31-Mar-21 A	02-Nov-20	31-Mar-21	100%	0	\$9,503	Greg Noman																										
P451M120b1	WBS P.4.5 Management FY21 (LOE) - continued (after CAM change)	01-Apr-21 A	30-Sep-21	01-Apr-21	30-Sep-21	32.28%	86	\$18,238	Greg Noman																										
P451M130	WBS P.4.5 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$18,940	Greg Noman																										

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P451M140	WBS P.4.5 Management FY23 (LOE)	03-Oct-22	23-May-23	03-Oct-22	23-May-23	0%	156	\$11,804	Greg Noman														
P451MDOC2	P.04.05 Utilities - Compile Documentation for ARR Phase 2 (LOE)	25-May-23	22-Jun-23	25-May-23	22-Jun-23	0%	20	\$9,080	Greg Noman														
<b>P04.05.02 Main Ring Dipole XFMR Upgrade</b>		<b>20-Aug-18 A</b>	<b>11-Nov-21</b>	<b>20-Aug-18</b>	<b>11-Nov-21</b>		<b>116</b>	<b>\$43,136</b>															
<b>P04.05.02.02 Design - Main Ring Dipole XFMR Upgrade - (NEP45220)</b>		<b>20-Aug-18 A</b>	<b>03-Dec-18 A</b>	<b>20-Aug-18</b>	<b>03-Dec-18</b>		<b>0</b>	<b>\$0</b>															
P452D100	Design and prepare installation drawings for the transformer cooling fans & RN-03 - Part 1	20-Aug-18 A	28-Sep-18 A	20-Aug-18	28-Sep-18	100%	0	\$0	Greg Noman														
P452D100B	Design and prepare installation drawings for the transformer cooling fans & RN-03 - Continued	01-Oct-18 A	03-Dec-18 A	01-Oct-18	03-Dec-18	100%	0	\$0	Greg Noman														
<b>P04.05.02.03 Procure/Fab - Main Ring Dipole XFMR Upgrade - (NEP45230)</b>		<b>12-Apr-21 A</b>	<b>25-Aug-21</b>	<b>12-Apr-21</b>	<b>07-Jul-21</b>		<b>61</b>	<b>\$27,872</b>															
P452P100	Prepare specifications for PPU Electrical Components	12-Apr-21 A	23-Apr-21 A	12-Apr-21	23-Apr-21	100%	0	\$4,489	Greg Noman														
P452P140	Procure Fan Packages for Main Ring Dipole XFMR (Qty 2)	29-Apr-21 A	18-May-21 A	26-Apr-21	21-May-21	100%	0	\$462	Greg Noman														
P452P200	Fabricate Fan Packages for Main Ring Dipole XFMR (Qty 2)	19-May-21 A	21-Jul-21	24-May-21	06-Jul-21	25%	36	\$0	Greg Noman														
P452MS001	Receive Fan Packages for Main Ring Dipole XFMR (Qty 2)	22-Jul-21	22-Jul-21	07-Jul-21	07-Jul-21	0%	1	\$21,632	Greg Noman														
P452P130	Procure/Receive Conduit and Wire	22-Jul-21	25-Aug-21	26-Apr-21	28-May-21	0%	25	\$1,289	Greg Noman														
<b>P04.05.02.04 Installation - Main Ring Dipole XFMR Upgrade</b>		<b>22-Oct-21</b>	<b>11-Nov-21</b>	<b>22-Oct-21</b>	<b>11-Nov-21</b>		<b>15</b>	<b>\$15,263</b>															
P452I210	Install Substation XFMR Fans	22-Oct-21	04-Nov-21	22-Oct-21	04-Nov-21	0%	10	\$10,617	Greg Noman														
P452I220	Testing RN-03 (Electrical)	05-Nov-21	11-Nov-21	05-Nov-21	11-Nov-21	0%	5	\$4,647	Greg Noman														
P4524IMS001	P.04.05.02.04 Main Ring Dipole XFMR_Installation Complete		11-Nov-21		11-Nov-21	0%	0	\$0	Greg Noman														
<b>P04.05.03 RN-03 DIW Cooling Upgrade</b>		<b>01-Jun-18 A</b>	<b>24-May-23</b>	<b>01-Jun-18</b>	<b>24-May-23</b>		<b>283</b>	<b>\$945,740</b>															
P453MS004	Complete RN03 Preliminary Design Review Meeting		14-Feb-19 A		14-Feb-19	100%	0	\$0	Greg Noman														
<b>P04.05.03.02 Design - RN-03 DIW Cooling Upgrade (NEP45320)</b>		<b>01-Jun-18 A</b>	<b>13-Nov-19 A</b>	<b>01-Jun-18</b>	<b>13-Nov-19</b>		<b>0</b>	<b>\$0</b>															
P453D31	Design and Prepare Specs for Filter Skid and Pump Skid for RN03 & Polishing System	01-Jun-18 A	21-Sep-18 A	01-Jun-18	21-Sep-18	100%	0	\$0	Greg Noman														
P453D35	Prepare SOW for RN03 Upgrade A/E Design	04-Sep-18 A	17-Sep-18 A	04-Sep-18	17-Sep-18	100%	0	\$0	Greg Noman														
P453D25	Solicit Bids - Task Order for RN03 Upgrade AE Design - Part 1	24-Sep-18 A	28-Sep-18 A	24-Sep-18	28-Sep-18	100%	0	\$0	Greg Noman														
P453D25B	Solicit Bids - Task Order for RN03 Upgrade AE Design - Continued	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	Greg Noman														
P453D30	Award Task Order for RN03 Upgrade AE Design	31-Oct-18 A	31-Oct-18 A	31-Oct-18	31-Oct-18	100%	0	\$0	Greg Noman														
P453D100	Develop 50% AE Design for RN03 Upgrade	05-Nov-18 A	15-Jan-19 A	05-Nov-18	15-Jan-19	100%	0	\$0	Greg Noman														
P453D120	Resolve Comments for 50% Design Review for RN03 Upgrade	24-Jan-19 A	30-Jan-19 A	24-Jan-19	30-Jan-19	100%	0	\$0	Greg Noman														
P453D110	Preliminary Design Review Meeting with Mesa - 50% Design Review for RN03 Upgrade	25-Jan-19 A	25-Jan-19 A	25-Jan-19	25-Jan-19	100%	0	\$0	Greg Noman														
P453D130	Complete 50% Design for RN03 Upgrade		30-Jan-19 A		30-Jan-19	100%	0	\$0	Greg Noman														
P453D140	Prepare for Internal Review - RN03 Water Cooling Upgrade PDR	31-Jan-19 A	08-Feb-19 A	31-Jan-19	08-Feb-19	100%	0	\$0	Greg Noman														
P453D320	Develop 50% AE Design for RN03 Upgrade (additional scope)	01-Feb-19 A	06-Feb-19 A	01-Feb-19	06-Feb-19	100%	0	\$0	Greg Noman														
P453D170	Develop 90% AE Design for RN03 Upgrade	04-Feb-19 A	29-Mar-19 A	04-Feb-19	29-Mar-19	100%	0	\$0	Greg Noman														
P453D150	Internal Review - RN03 Water Cooling Upgrade PDR	14-Feb-19 A	14-Feb-19 A	14-Feb-19	14-Feb-19	100%	0	\$0	Greg Noman														
P453D160	Ready for Ring Systems Preliminary Design Review - Water	22-Feb-19 A		22-Feb-19		100%	0	\$0	Greg Noman														

May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 10:09													
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P453D360	Resolve Comments from 90% Design Review for RN03 Upgrade	01-May-19 A	21-May-19 A	01-May-19	21-May-19	100%	0	\$0	Greg Noman															
P453D200	Final Design for RN03 Upgrade Complete (Mesa Design)		30-May-19 A		30-May-19	100%	0	\$0	Greg Noman															
P453D180	Final Design Review Meeting - 90% Design Review for RN03 Upgrade	30-May-19 A	30-May-19 A	30-May-19	30-May-19	100%	0	\$0	Greg Noman															
P453D190	Develop AFT Fathom Hydraulic Model - Part A	03-Jun-19 A	31-Aug-19 A	03-Jun-19	31-Aug-19	100%	0	\$0	Greg Noman															
P453D370	Prepare Hazards Analysis - RN03 Upgrade - Part A	22-Jul-19 A	31-Aug-19 A	22-Jul-19	31-Aug-19	100%	0	\$0	Greg Noman															
P453D190B	Develop AFT Fathom Hydraulic Model - Part B	01-Sep-19 A	09-Sep-19 A	01-Sep-19	09-Sep-19	100%	0	\$0	Greg Noman															
P453D370B	Prepare Hazards Analysis - RN03 Upgrade - Part B	01-Sep-19 A	20-Sep-19 A	01-Sep-19	20-Sep-19	100%	0	\$0	Greg Noman															
<b>P04.05.03.02.01</b>	<b>Design - New Injection Dump Quadrupole Magnet &amp; Power Supply Cooling</b>	<b>03-Jun-19 A</b>	<b>13-Nov-19 A</b>	<b>03-Jun-19</b>	<b>13-Nov-19</b>	<b></b>	<b>0</b>	<b>\$0</b>																
P453D300	Design of Quadrupole Magnet and Power Supply Cooling to 50%	03-Jun-19 A	14-Jun-19 A	03-Jun-19	14-Jun-19	100%	0	\$0	Greg Noman															
P453D330	Design of Quadrupole Magnet and Power Supply Cooling to 100% - Part A	18-Jun-19 A	31-Aug-19 A	18-Jun-19	31-Aug-19	100%	0	\$0	Greg Noman															
P453D330B	Design of Quadrupole Magnet and Power Supply Cooling to 100% - Part B	01-Sep-19 A	27-Sep-19 A	01-Sep-19	27-Sep-19	100%	0	\$0	Greg Noman															
P453D350	Conduct Quadrupole Magnet and Power Supply Cooling 100% Design Review (internal)	11-Nov-19 A	11-Nov-19 A	11-Nov-19	11-Nov-19	100%	0	\$0	Greg Noman															
P453D310	Ready for Ring System FDR - Water		13-Nov-19 A		13-Nov-19	100%	0	\$0	Greg Noman															
<b>P04.05.03.03</b>	<b>Procure/Fab/Installation - RN-03 DIW Cooling Upgrade</b>	<b>04-Apr-22</b>	<b>19-Apr-23</b>	<b>04-Apr-22</b>	<b>19-Apr-23</b>	<b></b>	<b>258</b>	<b>\$888,312</b>																
P453P100	Prepare SOW and Tech Spec for Water Cooling Components (RN-03)	04-Apr-22*	02-May-22	04-Apr-22	02-May-22	0%	20	\$6,676	Greg Noman															
P453P330	Procurement Readiness Review for Water Cooling Components (RN-03)	03-May-22	09-May-22	03-May-22	09-May-22	0%	5	\$1,053	Greg Noman															
P453P110	Technical Package to Procurement for Water Cooling Components (RN-03)		09-May-22		09-May-22	0%	0	\$0	Greg Noman															
P453P120	Procurement Review and Bid for Water Cooling Components (RN-03)	10-May-22	07-Jun-22	10-May-22	07-Jun-22	0%	20	\$1,926	Greg Noman															
P453P130	Issue RFP for Water Cooling Components (RN-03)		07-Jun-22		07-Jun-22	0%	0	\$0	Greg Noman															
P453P140	Solicitation Period for Water Cooling Components (RN-03)	08-Jun-22	27-Jul-22	08-Jun-22	27-Jul-22	0%	35	\$4,647	Greg Noman															
P453P150	Solicitation Closing for Water Cooling Components (RN-03)		27-Jul-22		27-Jul-22	0%	0	\$0	Greg Noman															
P453P160	Review and Award Contract for Water Cooling Components (RN-03)	28-Jul-22	24-Aug-22	28-Jul-22	24-Aug-22	0%	20	\$1,926	Greg Noman															
P453P170	Award contract for Construction of Water Cooling Components (RN-03)	25-Aug-22	25-Aug-22	25-Aug-22	25-Aug-22	0%	1	\$0	Greg Noman															
P453P175	Receive & Review Contractor Documentation for Construction of Cooling Water Components (RN-03)	26-Aug-22	21-Oct-22	26-Aug-22	21-Oct-22	0%	40	\$1,565	Greg Noman															
P453P350	Issue Notice to Proceed for Construction of Cooling Water Components (RN-03)	24-Oct-22	28-Oct-22	24-Oct-22	28-Oct-22	0%	5	\$201	Greg Noman															
P453P180	Mobilize - Construction of Water Cooling Components (RN-03)	31-Oct-22	04-Nov-22	31-Oct-22	04-Nov-22	0%	5	\$0	Greg Noman															
P453P200	Support for Pre-Outage Construction of Water Cooling Components (RN-03)	31-Oct-22	20-Dec-22	31-Oct-22	20-Dec-22	0%	35	\$35,434	Greg Noman															
P453P185	Pre-Outage Construction - Install Water Cooling Components (RN-03)	07-Nov-22	20-Dec-22	07-Nov-22	20-Dec-22	0%	30	\$393,299	Greg Noman															
P453P190	Outage Construction - Install Water Cooling Components (RN-03)	01-Feb-23	21-Mar-23	01-Feb-23	21-Mar-23	0%	35	\$393,299	Greg Noman															
P453P340	Support for Outage Construction of Water Cooling Components (RN-03)	22-Feb-23	19-Apr-23	22-Feb-23	19-Apr-23	0%	40	\$40,496	Greg Noman															
P453MS001	Complete Construction of Cooling Water Components (RN-03)		19-Apr-23		19-Apr-23	0%	0	\$0	Greg Noman															
<b>P04.05.03.03.01</b>	<b>Procure/Fab/Installation - New Injection Dump Quadrupole Magnet &amp; Power Supply Cool</b>	<b>31-Oct-22</b>	<b>19-Apr-23</b>	<b>31-Oct-22</b>	<b>19-Apr-23</b>	<b></b>	<b>112</b>	<b>\$7,791</b>																
P453P300	Procure/Receive Components for New Injection Dump Quadrupole Magnet and Power Supply Cooling	31-Oct-22	06-Dec-22	31-Oct-22	06-Dec-22	0%	25	\$2,704	Greg Noman															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016 - FY2028																													
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P453P320	Install Components for New Injection Dump Quadrupole Magnet and Power Supply Cooling	15-Feb-23	28-Feb-23	15-Feb-23	28-Feb-23	0%	10	\$5,087	Greg Noman																														
P453T190	Complete As Built Drawings for Water Cooling Components (RN-03)		19-Apr-23		19-Apr-23	0%	0	\$0	Greg Noman																														
<b>P04.05.03.05 Testing - RN-03 DIW Cooling Upgrade</b>		07-Nov-22	24-May-23	07-Nov-22	24-May-23		132	\$57,428																															
P453T100	Prepare Test Procedures for Water Cooling Components (RN-03)	07-Nov-22	06-Dec-22	07-Nov-22	06-Dec-22	0%	20	\$9,080	Greg Noman																														
P453T110	Leak Test Water Cooling Components (RN-03)	22-Mar-23	28-Mar-23	22-Mar-23	28-Mar-23	0%	5	\$6,012	Greg Noman																														
P453T120	System Flushing - Water Cooling Components (RN-03)	29-Mar-23	12-Apr-23	29-Mar-23	12-Apr-23	0%	10	\$5,319	Greg Noman																														
P453T130	Demobilize - Construction of Water Cooling Components (RN-03)	13-Apr-23	19-Apr-23	13-Apr-23	19-Apr-23	0%	5	\$0	Greg Noman																														
P453T140	Functional Testing and Balancing - Water Cooling Components (RN-03)	13-Apr-23	26-Apr-23	13-Apr-23	26-Apr-23	0%	10	\$15,147	Greg Noman																														
P453T150	Prepare As Built Drawings for Water Cooling Components (RN-03)	27-Apr-23	10-May-23	27-Apr-23	10-May-23	0%	10	\$8,925	Greg Noman																														
P453T160	Complete As Built Drawings for Water Cooling Components (RN-03)		10-May-23		10-May-23	0%	0	\$0	Greg Noman																														
P453T170	Barcode Assets for Water Cooling Components (RN-03)	11-May-23	24-May-23	11-May-23	24-May-23	0%	10	\$6,932	Greg Noman																														
P4534IMS001	P.04.05.03.04 RN-03 DIW Cooling Upgrade_Installation Complete		24-May-23		24-May-23	0%	0	\$0	Greg Noman																														
<b>P04.05.03.05.01 Testing - New Injection Dump Quadrupole Magnet &amp; Power Supply Cooling</b>		01-Mar-23	07-Mar-23	01-Mar-23	07-Mar-23		5	\$6,012																															
P453T180	Leak Test New Injection Dump Quadrupole Magnet and Power Supply Cooling	01-Mar-23	07-Mar-23	01-Mar-23	07-Mar-23	0%	5	\$6,012	Greg Noman																														
<b>P04.05.04 PFN Room HVAC</b>		02-Jan-19 A	24-May-23	02-Jan-19	24-May-23		342	\$272,789																															
<b>P04.05.04.02 Design - PFN Room HVAC - (NEP45420)</b>		02-Jan-19 A	15-Oct-20 A	02-Jan-19	15-Oct-20		0	\$0																															
P454D200	Prepare Preliminary Design of PFN Room Cooling	02-Jan-19 A	18-Feb-19 A	02-Jan-19	18-Feb-19	100%	0	\$0	Greg Noman																														
P454D220	Preliminary Design Review - PFN Room Cooling	28-Jan-19 A	15-Feb-19 A	28-Jan-19	15-Feb-19	100%	0	\$0	Greg Noman																														
P454D210	Ready for Ring System PDR - PFN Room Cooling		18-Feb-19 A		18-Feb-19	100%	0	\$0	Greg Noman																														
P454D230	Prepare Final Design of PFN Room Cooling	01-Oct-19 A	01-Feb-20 A	01-Oct-19	01-Feb-20	100%	0	\$0	Greg Noman																														
P454D233	Prepare Final Design of PFN Room HVAC - Design Revisions	17-Apr-20 A	29-Sep-20 A	17-Apr-20	29-Sep-20	100%	0	\$0	Greg Noman																														
P454D240	Final Design Review - PFN Room HVAC (Site Services QA Final DCN Package)	30-Sep-20 A	15-Oct-20 A	30-Sep-20	15-Oct-20	100%	0	\$0	Greg Noman																														
<b>P04.05.04.03 Procure/Fab - PFN Room HVAC</b>		10-Jan-22	20-Apr-22	10-Jan-22	20-Apr-22		71	\$9,896																															
P454P200	Prepare SOW and Tech Spec for PFN Room Cooling Components	10-Jan-22*	24-Jan-22	10-Jan-22	24-Jan-22	0%	10	\$5,031	Greg Noman																														
P454P210	Procurement Readiness Review for PFN Room Cooling Components	25-Jan-22	31-Jan-22	25-Jan-22	31-Jan-22	0%	5	\$1,013	Greg Noman																														
P454P220	Technical Package to Procurement for PFN Room Cooling Components		31-Jan-22		31-Jan-22	0%	0	\$0	Greg Noman																														
P454P230	Procurement Review and Bid for PFN Room Cooling Components	01-Feb-22	21-Feb-22	01-Feb-22	21-Feb-22	0%	15	\$770	Greg Noman																														
P454P240	Issue RFP for PFN Room Cooling Components		21-Feb-22		21-Feb-22	0%	0	\$0	Greg Noman																														
P454P250	Solicitation Period for PFN Room Cooling Components	22-Feb-22	28-Mar-22	22-Feb-22	28-Mar-22	0%	25	\$2,311	Greg Noman																														
P454P260	Solicitation Closing for PFN Room Cooling Components		28-Mar-22		28-Mar-22	0%	0	\$0	Greg Noman																														
P454P270	Review and Award Contract for PFN Room Cooling Components	29-Mar-22	19-Apr-22	29-Mar-22	19-Apr-22	0%	15	\$770	Greg Noman																														
P454P280	Award contract for PFN Room Cooling Components	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	0%	1	\$0	Greg Noman																														
<b>P04.05.04.04 Installation - PFN Room HVAC</b>		01-Feb-23	24-May-23	01-Feb-23	24-May-23		80	\$262,893																															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P454I200	Tie in Chilled Water for Fan Coil PFN Room Cooling	01-Feb-23	28-Feb-23	01-Feb-23	28-Feb-23	0%	20	\$5,087	Greg Noman															
P454I210	Install Fan Coil PFN Room Cooling Components	01-Mar-23	24-May-23	01-Mar-23	24-May-23	0%	60	\$257,806	Greg Noman															
P4534IMS1	P.04.05.03.04 PFN Room HVAC_Installation Complete		24-May-23		24-May-23	0%	0	\$0	Greg Noman															
<b>P.04.06 Ring Control Systems</b>		<b>03-Oct-16 A</b>	<b>20-Sep-23</b>	<b>03-Oct-16</b>	<b>20-Sep-23</b>		<b>571</b>	<b>\$3,933,833</b>																
P0406I01	P.04.06 Ring Control Systems - Integrated System Testing for Phase 1 Complete		13-Oct-22		13-Oct-22	0%	0	\$0	Karen White															
P0406DOC1	P.04.06 Ring Control Systems - Documentation for IEE/ERR for Phase 1 Complete		13-Oct-22		13-Oct-22	0%	0	\$0	Karen White															
P0406I02	P.04.06 Ring Control Systems - Integrated System Testing for Phase 2 Complete		06-Sep-23		06-Sep-23	0%	0	\$0	Karen White															
P0406DOC2	P.04.06 Ring Control Systems - Documentation for ARR for Phase 2 Complete		20-Sep-23		20-Sep-23	0%	0	\$0	Karen White															
<b>P.04.06.01 Management and System Integration</b>		<b>03-Oct-16 A</b>	<b>20-Sep-23</b>	<b>03-Oct-16</b>	<b>20-Sep-23</b>		<b>571</b>	<b>\$201,373</b>																
<b>P.04.06.01.01 Management and System Integration - Ring Control Systems - (NEP46110)</b>		<b>03-Oct-16 A</b>	<b>20-Sep-23</b>	<b>03-Oct-16</b>	<b>20-Sep-23</b>		<b>571</b>	<b>\$201,373</b>																
P461M1	WBS P.4.6 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White															
P461M41M	WBS P.4.6 Management FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White															
P461M6	WBS P.4.6 Management FY18 (May through Sept)	04-Sep-18 A	28-Sep-18 A	04-Sep-18	28-Sep-18	100%	0	\$0	Karen White															
P461M100	WBS P.4.6 Management FY19 (LOE) - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Karen White															
P461M100B	WBS P.4.6 Management FY19 (LOE) - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Karen White															
P461M100C	WBS P.4.6 Management FY19 (LOE) - Part C	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P461M110	WBS P.4.6 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P461M110B	WBS P.4.6 Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P461M120	WBS P.4.6 Management FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Karen White															
P461M120b	WBS P.4.6 Management FY21 (LOE) - continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$70,396	Karen White															
P461M130	WBS P.4.6 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$41,099	Karen White															
P461MDOC1	P.04.06 Ring Control Systems - Compile Documentation for IRR/ERR Phase 1 (LOE)	16-Sep-22	13-Oct-22	16-Sep-22	13-Oct-22	0%	20	\$25,078	Karen White															
P461M140	WBS P.4.6 Management FY23 (LOE)	03-Oct-22	01-Sep-23	03-Oct-22	01-Sep-23	0%	226	\$39,182	Karen White															
P461MDOC2	P.04.06 Ring Control Systems - Compile Documentation for ARR Phase 2 (LOE)	07-Sep-23	20-Sep-23	07-Sep-23	20-Sep-23	0%	10	\$25,619	Karen White															
<b>P.04.06.02 Beam Power Limit System</b>		<b>07-Jan-19 A</b>	<b>13-Oct-22</b>	<b>07-Jan-19</b>	<b>13-Oct-22</b>		<b>342</b>	<b>\$3,262,423</b>																
<b>P.04.06.02.02 Design - Beam Power Limit System - (NEP46220)</b>		<b>07-Jan-19 A</b>	<b>18-Feb-22</b>	<b>07-Jan-19</b>	<b>14-Feb-22</b>		<b>177</b>	<b>\$2,248,563</b>																
P462D2132	BPLS Design Oversight - FY21 (LOE)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$98,531	Karen White															
<b>P.04.06.02.02.01 Beam Power Limit System Conceptual Design</b>		<b>07-Jan-19 A</b>	<b>10-Dec-19 A</b>	<b>07-Jan-19</b>	<b>10-Dec-19</b>		<b>0</b>	<b>\$0</b>																
<b>P.04.06.02.02.01.01 System Conceptual Design</b>		<b>07-Jan-19 A</b>	<b>10-Dec-19 A</b>	<b>07-Jan-19</b>	<b>10-Dec-19</b>		<b>0</b>	<b>\$0</b>																
P462D100	Prepare System Level Conceptual Design	07-Jan-19 A	29-Mar-19 A	07-Jan-19	29-Mar-19	100%	0	\$0	Karen White															
P462D102	Prepare Benchmarking	01-Feb-19 A	28-Feb-19 A	01-Feb-19	28-Feb-19	100%	0	\$0	Karen White															
P462D104	Prepare System Simulation & Modeling	01-Feb-19 A	29-Mar-19 A	01-Feb-19	29-Mar-19	100%	0	\$0	Karen White															
P462D106	Prepare System Customer/Supplier Interface	01-Feb-19 A	08-Mar-19 A	01-Feb-19	08-Mar-19	100%	0	\$0	Karen White															

May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 10:09												
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D114	Prepare Preliminary Hazards Analysis	11-Mar-19A	29-Mar-19A	11-Mar-19	29-Mar-19	100%	0	\$0	Karen White														
P462D110	Prepare System Requirements Definition - Part A	11-Mar-19A	31-Mar-19A	11-Mar-19	31-Mar-19	100%	0	\$0	Karen White														
P462D108	Prepare System Control System Engineering - Part A	25-Mar-19A	31-Mar-19A	25-Mar-19	31-Mar-19	100%	0	\$0	Karen White														
P462D110B	Prepare System Requirements Definition - Part B	01-Apr-19A	05-Apr-19A	01-Apr-19	05-Apr-19	100%	0	\$0	Karen White														
P462D108B	Prepare System Control System Engineering - Part B	01-Apr-19A	05-Apr-19A	01-Apr-19	05-Apr-19	100%	0	\$0	Karen White														
P462D118	Prepare System Design Solution and Scope - Part A	08-Apr-19A	31-Aug-19A	08-Apr-19	31-Aug-19	100%	0	\$0	Karen White														
P462D112	Prepare BPLS Mechanical Conceptual Design - Part A	09-Jul-19A	31-Aug-19A	09-Jul-19	31-Aug-19	100%	0	\$0	Karen White														
P462D116	Prepare System Interface Description Document - Part A	29-Jul-19A	31-Aug-19A	29-Jul-19	31-Aug-19	100%	0	\$0	Karen White														
P462D120	Prepare System Level TDR Update - Part A	12-Aug-19A	31-Aug-19A	12-Aug-19	31-Aug-19	100%	0	\$0	Karen White														
P462D122	Prepare Project Risk Tree - Part A	28-Aug-19A	31-Aug-19A	28-Aug-19	31-Aug-19	100%	0	\$0	Karen White														
P462D116B	Prepare System Interface Description Document - Part B	01-Sep-19A	15-Oct-19A	01-Sep-19	15-Oct-19	100%	0	\$0	Karen White														
P462D122B	Prepare Project Risk Tree - Part B	01-Sep-19A	10-Dec-19A	01-Sep-19	10-Dec-19	100%	0	\$0	Karen White														
P462D125	Conduct System Conceptual Design Internal Reviews	02-Sep-19A	01-Oct-19A	02-Sep-19	01-Oct-19	100%	0	\$0	Karen White														
P462D120B	Prepare System Level TDR Update - Part B	02-Sep-19A	30-Sep-19A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White														
P462D112B	Prepare BPLS Mechanical Conceptual Design - Part B	03-Sep-19A	30-Sep-19A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White														
P462D118B	Prepare System Design Solution and Scope - Part B	11-Sep-19A	30-Sep-19A	11-Sep-19	30-Sep-19	100%	0	\$0	Karen White														
P462D127	BPLS System Conceptual Design Complete		15-Oct-19A		15-Oct-19	100%	0	\$0	Karen White														
P04.06.02.02.01.02 Signal Processor Conceptual Design		08-Apr-19A	30-Sep-19A	08-Apr-19	30-Sep-19		0	\$0															
P462D150	Prepare Signal Processor Requirements Definition - Part A	08-Apr-19A	31-Aug-19A	08-Apr-19	31-Aug-19	100%	0	\$0	Karen White														
P462D152	Prepare Signal Processor Simulation & Modeling	08-Apr-19A	09-Aug-19A	08-Apr-19	09-Aug-19	100%	0	\$0	Karen White														
P462D154	Prepare Signal Processor Conceptual Design - Part A	08-Apr-19A	31-Aug-19A	08-Apr-19	31-Aug-19	100%	0	\$0	Karen White														
P462D157	Conduct Signal Processor Conceptual Design Internal Reviews	02-Sep-19A	30-Sep-19A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White														
P462D154B	Prepare Signal Processor Conceptual Design - Part B	02-Sep-19A	30-Sep-19A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White														
P462D150B	Prepare Signal Processor Requirements Definition - Part B	02-Sep-19A	30-Sep-19A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White														
P462D160	Signal Processor Conceptual Design Complete		30-Sep-19A		30-Sep-19	100%	0	\$0	Karen White														
P04.06.02.02.01.03 PPS Interface Conceptual Design		11-Mar-19A	15-Oct-19A	11-Mar-19	15-Oct-19		0	\$0															
P462D170	Prepare PPS Customer/Supplier Interface - Part A	11-Mar-19A	31-Mar-19A	11-Mar-19	31-Mar-19	100%	0	\$0	Karen White														
P462D170B	Prepare PPS Customer/Supplier Interface - Part B	17-Jun-19A	31-Aug-19A	17-Jun-19	31-Aug-19	100%	0	\$0	Karen White														
P462D174	Prepare PPS Requirements Definition - Part A	17-Jun-19A	31-Aug-19A	17-Jun-19	31-Aug-19	100%	0	\$0	Karen White														
P462D172	Prepare PPS Control System Engineering - Part A	15-Jul-19A	31-Aug-19A	15-Jul-19	31-Aug-19	100%	0	\$0	Karen White														
P462D176	Prepare PPS Conceptual Design - Part A	09-Aug-19A	31-Aug-19A	09-Aug-19	31-Aug-19	100%	0	\$0	Karen White														
P462D178	Prepare PPS Interface Description Document -Part A	28-Aug-19A	31-Aug-19A	28-Aug-19	31-Aug-19	100%	0	\$0	Karen White														
P462D170C	Prepare PPS Customer/Supplier Interface - Part C	01-Sep-19A	30-Sep-19A	01-Sep-19	30-Sep-19	100%	0	\$0	Karen White														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D174B	Prepare PPS Requirements Definition - Part B	01-Sep-19 A	30-Sep-19 A	01-Sep-19	30-Sep-19	100%	0	\$0	Karen White																	
P462D172B	Prepare PPS Control System Engineering - Part B	01-Sep-19 A	30-Sep-19 A	01-Sep-19	30-Sep-19	100%	0	\$0	Karen White																	
P462D176B	Prepare PPS Conceptual Design - Part B	01-Sep-19 A	30-Sep-19 A	01-Sep-19	30-Sep-19	100%	0	\$0	Karen White																	
P462D178B	Prepare PPS Interface Description Document - Part B	01-Sep-19 A	15-Oct-19 A	01-Sep-19	15-Oct-19	100%	0	\$0	Karen White																	
P462D185	Conduct PPS Conceptual Design Internal Reviews	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White																	
P462D180	Prepare PPS Design Solution and Scope	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White																	
P462D190	PPS Interface Conceptual Design Complete		15-Oct-19 A		15-Oct-19	100%	0	\$0	Karen White																	
<b>P04.06.02.02.01.04 Beam Power Limit System Conceptual Design Review</b>		02-Aug-19 A	04-Dec-19 A	02-Aug-19	04-Dec-19		0	\$0																		
P462D870	Identify CDR Reviewers - Part A	02-Aug-19 A	31-Aug-19 A	02-Aug-19	31-Aug-19	100%	0	\$0	Karen White																	
P462D200	Coordinate BPLS Conceptual Design Review - Part A	16-Aug-19 A	31-Aug-19 A	16-Aug-19	31-Aug-19	100%	0	\$0	Karen White																	
P462D870B	Identify CDR Reviewers - Part B	01-Sep-19 A	06-Sep-19 A	01-Sep-19	06-Sep-19	100%	0	\$0	Karen White																	
P462D200B	Coordinate BPLS Conceptual Design Review - Part B	01-Sep-19 A	30-Sep-19 A	01-Sep-19	30-Sep-19	100%	0	\$0	Karen White																	
P462D205	Gather and Post BPLS Conceptual Design Review Documentation	07-Oct-19 A	15-Oct-19 A	07-Oct-19	15-Oct-19	100%	0	\$0	Karen White																	
P462D215	Prepare for BPLS Conceptual Design Review	07-Oct-19 A	15-Oct-19 A	07-Oct-19	15-Oct-19	100%	0	\$0	Karen White																	
P462D210	Post BPLS Conceptual Design Review Documentation - Complete		15-Oct-19 A		15-Oct-19	100%	0	\$0	Karen White																	
P462D220	Conduct BPLS Conceptual Design Review Meeting	16-Oct-19 A	17-Oct-19 A	16-Oct-19	17-Oct-19	100%	0	\$0	Karen White																	
P462D225	Complete BPLS Conceptual Design Review Meeting		17-Oct-19 A		17-Oct-19	100%	0	\$0	Karen White																	
P462D880	Conduct CDR Closeout	18-Oct-19 A	04-Dec-19 A	18-Oct-19	04-Dec-19	100%	0	\$0	Karen White																	
<b>P04.06.02.02.02 Beam Power Limit System Preliminary Design</b>		09-Sep-19 A	04-May-21 A	09-Sep-19	24-Feb-21		0	\$284,547																		
<b>P04.06.02.02.02.01 System Preliminary Design</b>		09-Sep-19 A	09-Feb-21 A	09-Sep-19	20-Jan-21		0	\$220,228																		
P462D950	Attend DO-254 Training	09-Sep-19 A	11-Sep-19 A	09-Sep-19	11-Sep-19	100%	0	\$0	Karen White																	
P462D302	Prepare Current Monitor Preliminary Mechanical Design	18-Oct-19 A	14-Feb-20 A	18-Oct-19	14-Feb-20	100%	0	\$0	Karen White																	
P462D803	Write Beamline Hardware Specification	18-Oct-19 A	14-Feb-20 A	18-Oct-19	14-Feb-20	100%	0	\$0	Karen White																	
P462D1251	Prepare Preliminary 3-D Model and Calculations	18-Oct-19 A	20-Mar-20 A	18-Oct-19	20-Mar-20	100%	0	\$0	Karen White																	
P462D304	Prepare Current Monitor Stand Preliminary Mechanical Design	21-Oct-19 A	20-Mar-20 A	21-Oct-19	20-Mar-20	100%	0	\$0	Karen White																	
P462D308	Prepare Cabling Preliminary Design	01-Nov-19 A	31-Mar-20 A	01-Nov-19	31-Mar-20	100%	0	\$0	Karen White																	
P462D300	Prepare System Level Preliminary Design	01-Nov-19 A	31-Mar-20 A	01-Nov-19	31-Mar-20	100%	0	\$0	Karen White																	
P462D800	Write Preliminary FMICA & RAMI	01-Nov-19 A	31-Mar-20 A	01-Nov-19	31-Mar-20	100%	0	\$0	Karen White																	
P462D1441	Prepare Preliminary Test Code	02-Mar-20 A	31-Mar-20 A	02-Mar-20	31-Mar-20	100%	0	\$0	Karen White																	
P462D315	LabView Programming Support (LOE)	01-Apr-20 A	31-Oct-20 A	01-Apr-20	31-Oct-20	100%	0	\$0	Karen White																	
P462D1441B	Prepare Preliminary Test Code - Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Karen White																	
P462D300B	Prepare System Level Preliminary Design - Continued	01-Apr-20 A	20-May-20 A	01-Apr-20	20-May-20	100%	0	\$0	Karen White																	
P462D311	Prepare System Level Preliminary Documentation	10-Apr-20 A	30-May-20 A	10-Apr-20	30-May-20	100%	0	\$0	Karen White																	

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D310	Prepare Preliminary System Level Software Design - Part A	15-Apr-20 A	30-Jun-20 A	15-Apr-20	30-Jun-20	100%	0	\$0	Karen White																						
P462D308B	Prepare Cabling Preliminary Design - Part B	01-May-20 A	30-Jul-20 A	01-May-20	30-Jul-20	100%	0	\$0	Karen White																						
P462D890	Write Calibration Procedure	10-Aug-20 A	01-Sep-20 A	10-Aug-20	01-Sep-20	100%	0	\$0	Karen White																						
P462D800B	Write Preliminary FMEA	17-Aug-20 A	01-Sep-20 A	17-Aug-20	01-Sep-20	100%	0	\$0	Karen White																						
P462D1022-2	Develop and Maintain Design Compliance Matrix - Phase 2	17-Aug-20 A	31-Aug-20 A	17-Aug-20	31-Aug-20	100%	0	\$0	Karen White																						
P462D308C	Prepare Cabling Preliminary Design - Part C	24-Aug-20 A	01-Sep-20 A	24-Aug-20	01-Sep-20	100%	0	\$0	Karen White																						
P462D890B	Write Calibration Procedure - Part B	01-Sep-20 A	31-Oct-20 A	01-Sep-20	31-Oct-20	100%	0	\$0	Karen White																						
P462D308D	Prepare Cabling Preliminary Design - Part D	01-Sep-20 A	12-Oct-20 A	01-Sep-20	12-Oct-20	100%	0	\$0	Karen White																						
P462D800B-1	Write Preliminary FMEA (continued)	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Karen White																						
P462D1521	*Prepare Systems Requirement Document (SRD)	09-Sep-20 A	31-Oct-20 A	09-Sep-20	31-Oct-20	100%	0	\$0	Karen White																						
P462D1541	*Prepare Current Monitor Design	05-Oct-20 A	23-Oct-20 A	05-Oct-20	23-Oct-20	100%	0	\$0	Karen White																						
P462D1451	Prepare Preliminary System Level Software Design - Part B	02-Nov-20 A	13-Nov-20 A	02-Nov-20	13-Nov-20	100%	0	\$8,287	Karen White																						
P462D1531	*Prepare DPU Design	02-Nov-20 A	22-Jan-21 A	02-Nov-20	11-Dec-20	100%	0	\$15,671	Karen White																						
P462D800B-b	Write Preliminary FMEA (continued)	02-Nov-20 A	05-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$4,987	Karen White																						
P462D315b	LabView Programming Support (LOE) - continued	02-Nov-20 A	01-Jan-21 A	02-Nov-20	18-Dec-20	100%	0	\$8,438	Karen White																						
P462D890b1	Write Calibration Procedure - continued (PowerPoint)	02-Nov-20 A	08-Feb-21 A	02-Nov-20	11-Dec-20	100%	0	\$14,519	Karen White																						
P462D1521b	*Prepare Systems Requirement Document (SRD) - continued	02-Nov-20 A	12-Jan-21 A	02-Nov-20	30-Nov-20	100%	0	\$8,543	Karen White																						
P462D2099	Provide Mechanical Support to BPLS Preliminary Design (LOE)	02-Nov-20 A	21-Jan-21 A	02-Nov-20	20-Jan-21	100%	0	\$5,580	Karen White																						
P462D1561	*Prepare PSI Preliminary Design	12-Nov-20 A	29-Jan-21 A	12-Nov-20	11-Dec-20	100%	0	\$13,060	Karen White																						
P462D1022-3	Develop and Maintain Design Compliance Matrix Approach	12-Nov-20 A	09-Feb-21 A	12-Nov-20	08-Jan-21	100%	0	\$2,498	Karen White																						
P462D1551	*Prepare AFE Card Preliminary Design	16-Nov-20 A	29-Jan-21 A	02-Nov-20	11-Dec-20	100%	0	\$27,536	Karen White																						
P462D1591	Support Preliminary Design Document Prep	19-Nov-20 A	29-Jan-21 A	05-Nov-20	11-Dec-20	100%	0	\$10,359	Karen White																						
P462D1571	*Conduct Document Review	04-Jan-21 A	09-Feb-21 A	30-Nov-20	08-Jan-21	100%	0	\$31,683	Karen White																						
P462D1581	*Prepare SRD Revision	19-Jan-21 A	09-Feb-21 A	14-Dec-20	08-Jan-21	100%	0	\$14,165	Karen White																						
P462D1457	Prepare V&V Plan Overview	03-Feb-21 A	09-Feb-21 A	19-Nov-20	08-Jan-21	100%	0	\$54,903	Karen White																						
P462D325	System Level Preliminary Design Complete		09-Feb-21 A		08-Jan-21	100%	0	\$0	Karen White																						
<b>P04.06.02.02.02.03 PPS Interface Preliminary Design</b>		<b>18-May-20 A</b>	<b>09-Feb-21 A</b>	<b>18-May-20</b>	<b>05-Jan-21</b>	<b>0</b>	<b>0</b>	<b>\$16,268</b>																							
P462D356	Prepare PPS Interface Preliminary Design Documentation - Part B	18-May-20 A	31-Jul-20 A	18-May-20	31-Jul-20	100%	0	\$0	Karen White																						
P462D350	Prepare PPS Interface Preliminary Design/Documentation*	01-Jun-20 A	01-Sep-20 A	01-Jun-20	01-Sep-20	100%	0	\$0	Karen White																						
P462D365b	Prepare PPS Interface Preliminary Design Documentation - Part C*	03-Aug-20 A	31-Aug-20 A	03-Aug-20	31-Aug-20	100%	0	\$0	Karen White																						
P462D352	Prepare PPS Interface Software Design*	17-Aug-20 A	31-Aug-20 A	17-Aug-20	31-Aug-20	100%	0	\$0	Karen White																						
P462D350C	Prepare PPS Interface Preliminary Design/Documentation - Part C	01-Sep-20 A	31-Oct-20 A	01-Sep-20	31-Oct-20	100%	0	\$0	Karen White																						
P462D350C-b	Prepare PPS Interface Preliminary Design/Documentation - continued	23-Nov-20 A	18-Dec-20 A	02-Nov-20	20-Nov-20	100%	0	\$7,409	Karen White																						



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D352B	Prepare PPS Interface Software Design*	04-Jan-21 A	09-Feb-21 A	23-Nov-20	05-Jan-21	100%	0	\$8,859	Karen White																						
P462D360	PPS Interface Preliminary Design Complete		09-Feb-21 A		05-Jan-21	100%	0	\$0	Karen White																						
<b>P04.06.02.02.02.04 Beam Power Limit System Preliminary Design Review</b>		<b>08-Jan-21 A</b>	<b>04-May-21 A</b>	<b>30-Nov-20</b>	<b>24-Feb-21</b>		<b>0</b>	<b>\$48,051</b>																							
P462D370	Coordinate BPLS Preliminary Design Review	08-Jan-21 A	29-Jan-21 A	30-Nov-20	08-Jan-21	100%	0	\$1,394	Karen White																						
P462D2252	Prepare and Post BPLS PDR Dry Run Presentations	03-Feb-21 A	09-Feb-21 A			100%	0	\$4,081	Karen White																						
P462D373	Conduct BPLS Preliminary Design Review – DRY RUN –	10-Feb-21 A	12-Feb-21 A	19-Jan-21	19-Jan-21	100%	0	\$5,434	Karen White																						
P462D372	Prepare for BPLS Preliminary Design Review	15-Feb-21 A	19-Feb-21 A	04-Jan-21	15-Jan-21	100%	0	\$11,775	Karen White																						
P462D374	Gather and Post BPLS Preliminary Design Review Documentation	22-Feb-21 A	22-Feb-21 A	20-Jan-21	25-Jan-21	100%	0	\$4,081	Karen White																						
P462D376	Post BPLS Preliminary Design Review Documentation		22-Feb-21 A		25-Jan-21	100%	0	\$0	Karen White																						
P462D378	Conduct BPLS Preliminary Design Review Meeting	02-Mar-21 A	04-Mar-21 A	02-Feb-21	03-Feb-21	100%	0	\$9,509	Karen White																						
P462D384	Complete BPLS Preliminary Design Review Meeting		04-Mar-21 A		03-Feb-21	100%	0	\$0	Karen White																						
P462D380	Incorporate Comments from BPLS Preliminary Design Review Meeting	19-Mar-21 A	19-Apr-21 A	04-Feb-21	17-Feb-21	100%	0	\$10,330	Karen White																						
P462D382	Archive BPLS Preliminary Design Review Meeting Data and Enter Recommendations into Tracking System	03-May-21 A	04-May-21 A	18-Feb-21	24-Feb-21	100%	0	\$1,445	Karen White																						
P462D620	BPLS Preliminary Review Meeting Data Archived and Recommendations Entered into Tracking System		04-May-21 A		24-Feb-21	100%	0	\$0	Karen White																						
<b>P04.06.02.02.03 Beam Power Limit System Final Design</b>		<b>04-Jan-21 A</b>	<b>07-Dec-21</b>	<b>04-Jan-21</b>	<b>28-Oct-21</b>		<b>132</b>	<b>\$310,778</b>																							
<b>P04.06.02.02.03.01 System Final Design</b>		<b>04-Jan-21 A</b>	<b>27-Oct-21</b>	<b>04-Jan-21</b>	<b>07-Sep-21</b>		<b>105</b>	<b>\$260,605</b>																							
P462D315b10	Provide LabView Programming Support to Final Design (LOE)	04-Jan-21 A	22-Jul-21	04-Jan-21	22-Jul-21	73.57%	37	\$31,119	Karen White																						
P462D2096	Prepare Final System Level Software Design (LOE)	04-Jan-21 A	19-Jul-21	21-Jan-21	19-Jul-21	75.18%	34	\$26,655	Karen White																						
P462D1261	Provide Mechanical Support to BPLS Final Design (LOE)	21-Jan-21 A	19-Jul-21	21-Jan-21	19-Jul-21	72.8%	34	\$59,236	Karen White																						
P462D1028	Prepare Cabling Final Design	01-Jun-21	24-Aug-21	18-Feb-21	13-May-21	0%	60	\$4,606	Karen White																						
P462D1025	Modify Beamline Hardware Specification	01-Jun-21	27-Jul-21	18-Feb-21	15-Apr-21	0%	40	\$18,711	Karen White																						
P462D1037	Write Final FMEA	14-Jul-21	08-Sep-21	01-Apr-21	27-May-21	0%	40	\$25,706	Karen White																						
P462D1040	Modify Calibration Procedure	28-Jul-21	08-Sep-21	16-Apr-21	27-May-21	0%	30	\$32,505	Karen White																						
P462D1046	Prepare System Level Final Documentation	04-Aug-21	29-Sep-21	23-Apr-21	19-Jul-21	0%	40	\$9,172	Karen White																						
P462D1232	Prepare Current Monitor Lab Stand Final Design	18-Aug-21	08-Sep-21	07-May-21	27-May-21	0%	15	\$6,927	Karen White																						
P462D1031	Prepare System Level Final Design - Add Detail	25-Aug-21	29-Sep-21	14-May-21	19-Jul-21	0%	25	\$13,006	Karen White																						
P462D1043-1	Prepare Final PLC Software Design	01-Sep-21	29-Sep-21	21-May-21	19-Jul-21	0%	20	\$15,169	Karen White																						
P462D425	System Level Final Design Complete		29-Sep-21		09-Aug-21	0%	0	\$0	Karen White																						
P462D1615	*Update Design Compliance Matrix	30-Sep-21	27-Oct-21	10-Aug-21	07-Sep-21	0%	20	\$17,790	Karen White																						
<b>P04.06.02.02.03.03 PPS Interface Final Design</b>		<b>22-Jun-21</b>	<b>22-Jun-21</b>	<b>07-Jun-21</b>	<b>07-Jun-21</b>		<b>0</b>	<b>\$0</b>																							
P462D454	PPS Interface Final Design Complete		22-Jun-21		07-Jun-21	0%	0	\$0	Karen White																						
<b>P04.06.02.02.03.04 Beam Power Limit System Final Design Review</b>		<b>16-Sep-21</b>	<b>07-Dec-21</b>	<b>27-Jul-21</b>	<b>28-Oct-21</b>		<b>57</b>	<b>\$50,174</b>																							
P462D500	Coordinate BPLS Final Design Review	16-Sep-21	29-Sep-21	27-Jul-21	09-Aug-21	0%	10	\$1,445	Karen White																						

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D506	Prepare for BPLS Final Design Review	16-Sep-21	29-Sep-21	27-Jul-21	09-Aug-21	0%	10	\$12,396	Karen White														
P462D503	Gather and Post BPLS Final Design Review Documentation	30-Sep-21	06-Oct-21	10-Aug-21	16-Aug-21	0%	5	\$6,824	Karen White														
P462D509	BPLS Final Design Review Documentation Posted		06-Oct-21		16-Aug-21	0%	0	\$0	Karen White														
P462D512	Conduct BPLS Final Design Review Meeting	14-Oct-21	15-Oct-21	08-Sep-21	09-Sep-21	0%	2	\$16,248	Karen White														
P462D515	BPLS Final Desgin Review Meeting Complete		15-Oct-21		09-Sep-21	0%	0	\$0	Karen White														
P462D518	Incorporate Comments from BPLS Final Design Review Meeting	18-Oct-21	29-Oct-21	10-Sep-21	23-Sep-21	0%	10	\$11,383	Karen White														
P462D521	Archive BPLS Final Design Review Meeting Data and Enter Recommendations into Tracking System	01-Nov-21	03-Nov-21	24-Sep-21	28-Sep-21	0%	3	\$1,502	Karen White														
P462D524	BPLS Final Design Review Meeting Data and Recommendations Entered into Tracking System		03-Nov-21		28-Sep-21	0%	0	\$0	Karen White														
P462D535	Submit BPLS Final Design Review Documentation to Management for Approval	04-Nov-21	05-Nov-21	29-Sep-21	30-Sep-21	0%	2	\$376	Karen White														
P462D540	Management Approval Cycle for BPLS Final Design Review Documentation	08-Nov-21	07-Dec-21	01-Oct-21	28-Oct-21	0%	20	\$0	Karen White														
P462D545	BPLS System Final Design Review Approved		07-Dec-21		28-Oct-21	0%	0	\$0	Karen White														
<b>P04.06.02.02.04 Beam Power Limit System Design - TestArticle Hardware</b>		26-Aug-19 A	18-Feb-22	26-Aug-19	14-Feb-22		177	\$1,501,254															
P462D2242	Receive Misc Material (Remaining Commitments)	09-Nov-20 A	29-Jan-21 A	01-Dec-20	23-Feb-21	100%	0	\$24,377	Karen White														
<b>P04.06.02.02.04.01 TestArticle - PSI</b>		08-Nov-19 A	19-Nov-21	08-Nov-19	09-Aug-21		122	\$141,913															
P462D810	Prepare Tech Spec/SOW - Timing, Mailbox, Diagnostics Test Article	08-Nov-19 A	04-Dec-19 A	08-Nov-19	04-Dec-19	100%	0	\$0	Karen White														
P462D815	Procure Timing, Mailbox, Diagnostics Test Article	05-Dec-19 A	09-Dec-19 A	05-Dec-19	09-Dec-19	100%	0	\$0	Karen White														
P462D820	Fabricate PSI Test Article 1	10-Dec-19 A	31-Oct-20 A	10-Dec-19	31-Oct-20	100%	0	\$0	Karen White														
P462D830	Receive PSI Test Article 1	26-Oct-20 A	31-Oct-20 A	26-Oct-20	31-Oct-20	100%	0	\$0	Karen White														
P462D825	Fabrication Complete - PSI Test Article 1		31-Oct-20 A		31-Oct-20	100%	0	\$0	Karen White														
<b>P04.06.02.02.04.01.01 Final Design - PSI Test Article</b>		18-Jan-21 A	01-Jun-21	14-Dec-20	03-Mar-21		1	\$24,432															
P462D836	Design Schematic for Timing/MPS FMC	18-Jan-21 A	12-Feb-21 A	14-Dec-20	08-Jan-21	100%	0	\$2,414	Karen White														
P462D841	Perform PCB Layout for Timing/MPS FMC	15-Feb-21 A	16-Apr-21 A	11-Jan-21	25-Jan-21	100%	0	\$4,880	Karen White														
P462D162	Timing/MPS FMC Design Complete		16-Apr-21 A		25-Jan-21	100%	0	\$0	Karen White														
P462D851	Design PSI Firmware	19-Apr-21 A	21-May-21 A	04-Feb-21	17-Feb-21	100%	0	\$8,569	Karen White														
P462D861	PSI Design Complete		21-May-21 A		03-Mar-21	100%	0	\$0	Karen White														
P462D856	Design Crossbar Firmware - TO BE DELETED	01-Jun-21	01-Jun-21	18-Feb-21	03-Mar-21	0%	1	\$8,569	Karen White														
<b>P04.06.02.02.04.01.02 Implement - PSI Test Article</b>		19-Apr-21 A	17-Sep-21	26-Jan-21	04-Jun-21		77	\$75,551															
P462D207	Procure Rev 0 Timing/MPS FMC	19-Apr-21 A	14-May-21 A	26-Jan-21	15-Feb-21	100%	0	\$950	Karen White														
P462D163	Develop PSI FPGA Firmware - NEEDS TO BE EXPANDED	03-May-21 A	15-Jul-21	04-Mar-21	15-Apr-21	80%	32	\$25,706	Karen White														
P462D886	Fabricate Rev 0 Timing/MPS FMC	17-May-21 A	28-Jun-21	16-Feb-21	15-Mar-21	33%	20	\$0	Karen White														
P462D163	Develop Crossbar Firmware - TO BE DELETED	01-Jun-21	01-Jun-21	16-Apr-21	29-Apr-21	0%	1	\$8,569	Karen White														
P462D209	Fabrication of Rev 0 Timing/MPS FMC Complete		28-Jun-21		15-Mar-21	0%	0	\$0	Karen White														
P462D208	Receive Rev 0 Timing/MPS FMC	29-Jun-21	29-Jun-21	16-Mar-21	16-Mar-21	0%	1	\$6,240	Karen White														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D891	Test Rev 0 Timing/MPS FMC	30-Jun-21	14-Jul-21	17-Mar-21	30-Mar-21	0%	10	\$4,880	Karen White															
P462D208	Procure Rev 1 Timing/MPS FMC	15-Jul-21	04-Aug-21	31-Mar-21	21-Apr-21	0%	15	\$950	Karen White															
P462D164	Develop PSI/IOC Software	16-Jul-21	29-Jul-21	16-Apr-21	29-Apr-21	0%	10	\$17,138	Karen White															
P462D896	Fabricate Rev 1 Timing/MPS FMC	05-Aug-21	01-Sep-21	22-Apr-21	19-May-21	0%	20	\$0	Karen White															
P462D209	Fabrication of Rev 1 Timing/MPS FMC Complete		01-Sep-21		19-May-21	0%	0	\$0	Karen White															
P462D208	Receive Rev 1 Timing/MPS FMC	02-Sep-21	02-Sep-21	20-May-21	20-May-21	0%	1	\$6,240	Karen White															
P462D901	Test Rev 1 Timing/MPS FMC	03-Sep-21	17-Sep-21	21-May-21	04-Jun-21	0%	10	\$4,880	Karen White															
P04.06.02.02.04.01.03 Test - PSI Test Article		20-Sep-21	22-Oct-21	07-Jun-21	12-Jul-21		25	\$22,567																
P462D906	Assemble PSI Test Article	20-Sep-21	24-Sep-21	07-Jun-21	11-Jun-21	0%	5	\$4,880	Karen White															
P462D911	Perform PSI Unit Test	27-Sep-21	22-Oct-21	14-Jun-21	12-Jul-21	0%	20	\$17,687	Karen White															
P462D916	PSI Unit Test Complete (submit for SSIT)		22-Oct-21		12-Jul-21	0%	0	\$0	Karen White															
P04.06.02.02.04.01.04 Verification - PSI Test Article		15-Jul-21	19-Nov-21	31-Mar-21	09-Aug-21		91	\$19,363																
P462D164	Prepare PSI Subsystem Integration Test Specification (SSIT)	15-Jul-21	11-Aug-21	31-Mar-21	28-Apr-21	0%	20	\$9,502	Karen White															
P462D164	Execute PSI SSIT	25-Oct-21	19-Nov-21	13-Jul-21	09-Aug-21	0%	20	\$9,861	Karen White															
P462D164	PSI Verification Complete		19-Nov-21		09-Aug-21	0%	0	\$0	Karen White															
P04.06.02.02.04.02 TestArticle - AFE/Test Pulse		01-Jun-20 A	23-Sep-21	01-Jun-20	07-Sep-21		81	\$159,316																
P04.06.02.02.04.02.01 Off the Shelf Pulser		02-Nov-20 A	30-Apr-21 A	02-Nov-20	05-May-21		0	\$15,824																
P462D194	Write Test Procedure and Work Plans - PVM	02-Nov-20 A	04-Nov-20 A	02-Nov-20	04-Nov-20	100%	0	\$1,478	Karen White															
P462D195	Test PVM to FCT	05-Nov-20 A	11-Dec-20 A	05-Nov-20	11-Dec-20	100%	0	\$4,779	Karen White															
P462D196	Design Voltage Divider Assembly for PMV DEI	01-Mar-21 A	19-Mar-21 A	24-Mar-21	14-Apr-21	100%	0	\$7,359	Karen White															
P462D197	Procure/Receive Voltage Divider Assembly for PMV DEI	22-Mar-21 A	30-Apr-21 A	15-Apr-21	05-May-21	100%	0	\$2,208	Karen White															
P04.06.02.02.04.02.04 Integrate with Current Monitor		15-Jul-21	28-Jul-21	06-May-21	19-May-21		10	\$7,452																
P462D201	Integrate with the Current Monitor	15-Jul-21	28-Jul-21	06-May-21	19-May-21	0%	10	\$7,452	Karen White															
P04.06.02.02.04.02.05 Integrate Safety PLC		29-Jul-21	25-Aug-21	20-May-21	17-Jun-21		20	\$13,549																
P462D201	Integrate with the Safety PLC	29-Jul-21	11-Aug-21	20-May-21	03-Jun-21	0%	10	\$6,775	Karen White															
P462D214	Test Preliminary Integrated Assembly	12-Aug-21	25-Aug-21	04-Jun-21	17-Jun-21	0%	10	\$6,775	Karen White															
P04.06.02.02.04.02.06 Design Main Winding Buffer Circuits		05-Nov-20 A	14-Jul-21	05-Nov-20	23-Mar-21		31	\$75,856																
P462D201	Design Main Winding Buffer Circuits	05-Nov-20 A	29-Jan-21 A	05-Nov-20	18-Dec-20	100%	0	\$10,092	Karen White															
P462D202	Procure Main Winding Buffer Circuits	25-Jan-21 A	28-Jan-21 A	04-Jan-21	08-Jan-21	100%	0	\$2,958	Karen White															
P462D202	Fabricate Main Winding Buffer Circuits	29-Jan-21 A	05-Feb-21 A	11-Jan-21	22-Feb-21	100%	0	\$0	Karen White															
P462D202	Fabrication of Main Winding Buffer Circuits Complete		05-Feb-21 A		22-Feb-21	100%	0	\$0	Karen White															
P462D203	Receive Main Winding Buffer Circuits	08-Feb-21 A	08-Feb-21 A	23-Feb-21	23-Feb-21	100%	0	\$1,560	Karen White															
P462D203	Assemble Main Winding Buffer Circuits	09-Feb-21 A	12-Feb-21 A	24-Feb-21	02-Mar-21	100%	0	\$6,989	Karen White															





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D770	Fabrication Complete - Current Monitor Test Article		31-Jul-20 A		31-Jul-20	100%	0	\$0	Karen White																						
P462D775	Receive Current Monitor Test Article (Qty 2)	03-Aug-20 A	07-Aug-20 A	03-Aug-20	07-Aug-20	100%	0	\$0	Karen White																						
P462D777	Test Current Monitor Test Article	17-Aug-20 A	30-Oct-20 A	17-Aug-20	30-Oct-20	100%	0	\$0	Karen White																						
P04.06.02.02.04.05 Test Article - Network Analyzer, Micro-Ohm Meter		10-Dec-19 A	29-Mar-21 A	10-Dec-19	16-Nov-20		0	\$5,450																							
P462D900	Prepare Network Analyzer Tech Spec/SOW	10-Dec-19 A	16-Dec-19 A	10-Dec-19	16-Dec-19	100%	0	\$0	Karen White																						
P462D905	Procure Network Analyzer Test Article	16-Dec-19 A	17-Jan-20 A	16-Dec-19	17-Jan-20	100%	0	\$0	Karen White																						
P462D1321	Procure Volt Meter Test Article	02-Jan-20 A	03-Jan-20 A	02-Jan-20	03-Jan-20	100%	0	\$0	Karen White																						
P462D1331	Fabricate Volt Meter Test Article	06-Jan-20 A	19-Feb-20 A	06-Jan-20	19-Feb-20	100%	0	\$0	Karen White																						
P462D1461	Procure Pulse Generator Test Article	06-Jan-20 A	10-Jan-20 A	06-Jan-20	10-Jan-20	100%	0	\$0	Karen White																						
P462D1371	Fabricate Pulse Generator Test Article	13-Jan-20 A	31-Mar-20 A	13-Jan-20	31-Mar-20	100%	0	\$0	Karen White																						
P462D910	Fabricate Network Analyzer Test Article	20-Jan-20 A	31-Aug-20 A	20-Jan-20	31-Aug-20	100%	0	\$0	Karen White																						
P462D920	Receive Network Analyzer Test Article	10-Feb-20 A	31-Mar-20 A	10-Feb-20	31-Mar-20	100%	0	\$0	Karen White																						
P462D1341	Fabrication Complete - Volt Meter Test Article		19-Feb-20 A		19-Feb-20	100%	0	\$0	Karen White																						
P462D1351	Receive Volt Meter Test Article	20-Feb-20 A	21-Feb-20 A	20-Feb-20	21-Feb-20	100%	0	\$0	Karen White																						
P462D1411	Fabricate Micro-Ohm Meter Test Article	01-May-20 A	26-Mar-21 A	01-May-20	13-Nov-20	100%	0	\$0	Karen White																						
P462D915	Fabrication Complete - Network Analyzer Test Article		28-Aug-20 A		28-Aug-20	100%	0	\$0	Karen White																						
P462D920B	Receive Network Analyzer Test Article - Continued	01-Sep-20 A	01-Sep-20 A	01-Sep-20	01-Sep-20	100%	0	\$0	Karen White																						
P462D1431	Fabrication Complete - Micro-Ohm Meter Test Article		26-Mar-21 A		13-Nov-20	100%	0	\$0	Karen White																						
P462D1421	Receive Micro-Ohm Meter Test Article	29-Mar-21 A	29-Mar-21 A	16-Nov-20	16-Nov-20	100%	0	\$5,450	Karen White																						
P04.06.02.02.04.06 Test Article - Current Pulser		05-Dec-19 A	30-Sep-20 A	05-Dec-19	30-Sep-20		0	\$0																							
P462D1271	Procure/Receive High Power Load for Current Pulser Test Article	05-Dec-19 A	22-Jan-20 A	05-Dec-19	22-Jan-20	100%	0	\$0	Karen White																						
P462D925	Procure Current Pulser Test Article	10-Dec-19 A	17-Dec-19 A	10-Dec-19	17-Dec-19	100%	0	\$0	Karen White																						
P462D930	Fabricate Current Pulser Test Article	18-Dec-19 A	31-Jul-20 A	18-Dec-19	31-Jul-20	100%	0	\$0	Karen White																						
P462D935	Fabrication Complete - Current Pulser Test Article		31-Jul-20 A		31-Jul-20	100%	0	\$0	Karen White																						
P462D940	Receive Current Pulser Test Article	03-Aug-20 A	03-Aug-20 A	03-Aug-20	03-Aug-20	100%	0	\$0	Karen White																						
P462D1501	Repair and Modification of Current Pulser Test Article at Vendor	04-Aug-20 A	29-Sep-20 A	04-Aug-20	29-Sep-20	100%	0	\$0	Karen White																						
P462D1511	Receive Modified Current Pulser Test Article	30-Sep-20 A	30-Sep-20 A	30-Sep-20	30-Sep-20	100%	0	\$0	Karen White																						
P04.06.02.02.04.07 Test Article - Current Monitor Calibration Stand		05-Dec-19 A	20-Mar-20 A	05-Dec-19	20-Mar-20		0	\$0																							
P462D780	Prepare Current Monitor Test Article Calibration Stand Design (Drawing Prep)	05-Dec-19 A	13-Mar-20 A	05-Dec-19	13-Mar-20	100%	0	\$0	Karen White																						
P462D782	Prepare Current Monitor Test Article Calibration Stand Design (Mech Support)	16-Mar-20 A	20-Mar-20 A	16-Mar-20	20-Mar-20	100%	0	\$0	Karen White																						
P04.06.02.02.04.08 Test Article - DPU/Platform		08-Nov-19 A	27-Jan-22	08-Nov-19	08-Dec-21		161	\$779,922																							
P462D972	Prepare Tech Spec/SOW - DPU/Platform Test Article	08-Nov-19 A	04-Dec-19 A	08-Nov-19	04-Dec-19	100%	0	\$0	Karen White																						
P462D974	Procure DPU/Platform Test Article	05-Dec-19 A	09-Dec-19 A	05-Dec-19	09-Dec-19	100%	0	\$0	Karen White																						

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462D976	Fabricate DPU/Platform Test Article 1	10-Dec-19 A	28-Aug-20 A	10-Dec-19	28-Aug-20	100%	0	\$0	Karen White															
P462D980	Receive DPU/Platform Test Article	06-Jul-20 A	01-Sep-20 A	06-Jul-20	01-Sep-20	100%	0	\$0	Karen White															
P462D978	Fabrication Complete - DPU/Platform Test Article		28-Aug-20 A		28-Aug-20	100%	0	\$0	Karen White															
P462D2112	Architect Modules, Interfaces, Control and Data Flow (LOE)	15-Feb-21 A	04-Aug-21	14-Dec-20	16-Jun-21	61.67%	46	\$38,560	Karen White															
P04.06.02.02.04.08.01 Final Design - DPU/Platform TestArticle		04-Jan-21 A	20-Oct-21	17-Nov-20	26-Jul-21		100	\$485,198																
P04.06.02.02.04.08.01.01 Design DPU Firmware (Main) - Interface to Safety PLC		04-Jan-21 A	24-Aug-21	17-Nov-20	11-May-21		60	\$122,591																
P462D1	Design Discrete Output Interface	04-Jan-21 A	19-Mar-21 A	17-Nov-20	02-Dec-20	100%	0	\$11,647	Karen White															
P462D1	Design Discrete Input Interface	04-Jan-21 A	19-Mar-21 A	19-Jan-21	01-Feb-21	100%	0	\$11,647	Karen White															
P462D1	Design RS-485 TX Interface - activity must stay	05-Apr-21 A	07-May-21 A	14-Dec-20	15-Jan-21	100%	0	\$17,523	Karen White															
P462D1	Design RS-485 RX Interface - activity must stay	05-Apr-21 A	07-May-21 A	02-Feb-21	22-Feb-21	100%	0	\$17,523	Karen White															
P462D1	Design and Document Modbus Register Interface	01-Jun-21	28-Jun-21	23-Feb-21	15-Mar-21	0%	20	\$17,523	Karen White															
P462D1	Design Modbus TX Translation Layer	29-Jun-21	27-Jul-21	16-Mar-21	13-Apr-21	0%	20	\$23,364	Karen White															
P462D1	Design Modbus RX Translation Layer	28-Jul-21	24-Aug-21	14-Apr-21	11-May-21	0%	20	\$23,364	Karen White															
P04.06.02.02.04.08.01.02 Design DPU Firmware (Main) - Interface to PSI		01-Jun-21	01-Jun-21	14-Dec-20	25-Jun-21		1	\$52,232																
P462D1	Design Aurora TX Interface (Main) TO BE DELETED	01-Jun-21	01-Jun-21	14-Dec-20	08-Jan-21	0%	1	\$8,979	Karen White															
P462D1	Design Aurora RX Interface (Main) TO BE DELETED	01-Jun-21	01-Jun-21	11-Jan-21	25-Jan-21	0%	1	\$8,979	Karen White															
P462D1	Design TX Transaction Layer (TLP) TO BE DELETED	01-Jun-21	01-Jun-21	11-Jan-21	25-Jan-21	0%	1	\$8,569	Karen White															
P462D1	Design RX Transaction Layer (TLP) TO BE DELETED	01-Jun-21	01-Jun-21	26-Jan-21	08-Feb-21	0%	1	\$8,569	Karen White															
P462D1	Design TX Transaction Layer (UFC) TO BE DELETED	01-Jun-21	01-Jun-21	30-Apr-21	27-May-21	0%	1	\$8,569	Karen White															
P462D1	Design RX Transaction Layer (UFC) TO BE DELETED	01-Jun-21	01-Jun-21	28-May-21	25-Jun-21	0%	1	\$8,569	Karen White															
P04.06.02.02.04.08.01.03 Design DPU Firmware (Main) - Interface to AFE		03-May-21 A	15-Sep-21	26-Jan-21	02-Jun-21		15	\$35,480																
P462D1	Design 4-Channel ADC Interface	03-May-21 A	28-May-21 A	26-Jan-21	22-Feb-21	100%	0	\$17,957	Karen White															
P462D1	Design Test Pulse Interface	25-Aug-21	15-Sep-21	12-May-21	02-Jun-21	0%	15	\$17,523	Karen White															
P04.06.02.02.04.08.01.04 Design DPU Firmware (Main) - Signal Processor		01-Jun-21	20-Jul-21	23-Feb-21	11-May-21		35	\$49,382																
P462D1	Design Module to Compute Integrated Charge (Main)	01-Jun-21	28-Jun-21	23-Feb-21	22-Mar-21	0%	20	\$17,957	Karen White															
P462D1	Design Module to Compute Per Cycle Power (Main) TO BE DELETED	01-Jun-21	01-Jun-21	23-Mar-21	20-Apr-21	0%	1	\$17,957	Karen White															
P462D1	Design Module to Compute Average Power (Main)	29-Jun-21	20-Jul-21	21-Apr-21	11-May-21	0%	15	\$13,468	Karen White															
P04.06.02.02.04.08.01.05 Design DPU Firmware (Main) - Fault Detection Logic		21-Jul-21	20-Oct-21	12-May-21	26-Jul-21		65	\$44,104																
P462D1	Design Fallback Timing Interface TO BE DELETED???	21-Jul-21	17-Aug-21	28-Jun-21	26-Jul-21	0%	20	\$17,138	Karen White															
P462D1	Design Test Pulse Verification Logic (Main)	16-Sep-21	06-Oct-21	03-Jun-21	23-Jun-21	0%	15	\$17,642	Karen White															
P462D1	Design Module to Check Average Power Against Limits (Main)	07-Oct-21	20-Oct-21	12-May-21	25-May-21	0%	10	\$9,324	Karen White															
P04.06.02.02.04.08.01.06 Design DPU Firmware (Main) - Calibration Mode Mechanism		01-Jun-21	01-Jun-21	24-Jun-21	22-Jul-21		1	\$23,364																
P462D1	Design Non-Volatile RAM Interface (Main) TO BE DELETED	01-Jun-21	01-Jun-21	24-Jun-21	22-Jul-21	0%	1	\$23,364	Karen White															

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1								13-Aug-21 10:10																																	
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29																				
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F											
P04.06.02.02.04.08.01.07 Design DPU Firmware (Redundant) - Interface to PSI		01-Jun-21	01-Jun-21	26-May-21	23-Jun-21		1	\$17,957																																			
P462D1	Design Aurora TX Interface (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	26-May-21	09-Jun-21	0%	1	\$8,979	Karen White																																		
P462D1	Design Aurora RX Interface (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	10-Jun-21	23-Jun-21	0%	1	\$8,979	Karen White																																		
P04.06.02.02.04.08.01.08 Design DPU Firmware (Redundant) - Interface to AFE		01-Jun-21	01-Jun-21	12-May-21	22-Jul-21		1	\$33,887																																			
P462D1	Design 4-Channel ADC Interface (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	24-Jun-21	22-Jul-21	0%	1	\$17,957	Karen White																																		
P462D1	Design Test Pulse Interface (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	12-May-21	02-Jun-21	0%	1	\$15,930	Karen White																																		
P04.06.02.02.04.08.01.09 Design DPU Firmware (Redundant) - Signal Processor		01-Jun-21	01-Jun-21	23-Feb-21	11-May-21		1	\$58,410																																			
P462D1	Design Module to Compute Integrated Charge (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	23-Feb-21	22-Mar-21	0%	1	\$21,240	Karen White																																		
P462D1	Design Module to Compute Per Cycle Power (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	23-Mar-21	20-Apr-21	0%	1	\$21,240	Karen White																																		
P462D1	Design Module to Compute Average Power (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	21-Apr-21	11-May-21	0%	1	\$15,930	Karen White																																		
P04.06.02.02.04.08.01.10 Design DPU Firmware (Redundant) - Fault Detection Logic		01-Jun-21	01-Jun-21	12-May-21	23-Jun-21		1	\$26,550																																			
P462D1	Design Module to Check Average Power Against Limits (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	12-May-21	25-May-21	0%	1	\$10,620	Karen White																																		
P462D1	Design Test Pulse Verification Logic (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	03-Jun-21	23-Jun-21	0%	1	\$15,930	Karen White																																		
P04.06.02.02.04.08.01.11 Design DPU Firmware (Redundant) - Calibration Mode Mechanism		01-Jun-21	01-Jun-21	24-Jun-21	22-Jul-21		1	\$21,240																																			
P462D1	Design Non-Volatile RAM Interface (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	24-Jun-21	22-Jul-21	0%	1	\$21,240	Karen White																																		
P04.06.02.02.04.08.03 Implement - DPU/Platform TestArticle		01-Jun-21	03-Dec-21	23-Jul-21	24-Sep-21		130	\$86,822																																			
P462D1811	Develop DPU/IOC Software Interface (Main) TO BE DELETED	01-Jun-21	01-Jun-21	03-Sep-21	10-Sep-21	0%	1	\$8,569	Karen White																																		
P462D1814	Develop DPU Firmware (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	03-Sep-21	24-Sep-21	0%	1	\$20,419	Karen White																																		
P462D1808	Develop DPU Firmware (Main) - TO BE DELETED - ADD DETAIL	21-Oct-21	03-Dec-21	23-Jul-21	02-Sep-21	0%	30	\$57,834	Karen White																																		
P04.06.02.02.04.08.04 Test - DPU/Platform TestArticle		01-Jun-21	20-Dec-21	27-Sep-21	26-Oct-21		141	\$44,252																																			
P462D1821	Assemble DPU Prototype (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	12-Oct-21	12-Oct-21	0%	1	\$1,122	Karen White																																		
P462D1821	Perform DPU Unit Test (Redundant) TO BE DELETED	01-Jun-21	01-Jun-21	13-Oct-21	26-Oct-21	0%	1	\$20,661	Karen White																																		
P462D1831	DPU Unit Test Complete - Submit for SSIT (Redundant) TO BE DELETED		01-Jun-21		26-Oct-21	0%	0	\$0	Karen White																																		
P462D1811	Assemble DPU Prototype (Main)	06-Dec-21	06-Dec-21	27-Sep-21	27-Sep-21	0%	1	\$1,166	Karen White																																		
P462D1821	Perform DPU Unit Test (Main)	07-Dec-21	20-Dec-21	28-Sep-21	11-Oct-21	0%	10	\$21,303	Karen White																																		
P462D1821	DPU Unit Test Complete - Submit for SSIT (Main)		20-Dec-21		11-Oct-21	0%	0	\$0	Karen White																																		
P04.06.02.02.04.08.05 Verification - DPU/Platform		01-Jun-21	27-Jan-22	11-Jan-21	08-Dec-21		161	\$125,091																																			
P462D1631	Develop Matlab/Simulink Model for Beam Power Calculations	01-Jun-21	13-Jul-21	11-Jan-21	22-Feb-21	0%	30	\$31,860	Karen White																																		
P462D1631	Execute DPU SSIT (Redundant) TO BE DELETED	02-Jun-21	02-Jun-21	09-Nov-21	08-Dec-21	0%	1	\$30,486	Karen White																																		
P462D1831	DPU Verification Complete (Redundant) TO BE DELETED		02-Jun-21		08-Dec-21	0%	0	\$0	Karen White																																		
P462D1631	Prepare DPU Subsystem Integration Test Specification (SSIT)	05-Nov-21	06-Dec-21	23-Jul-21	19-Aug-21	0%	20	\$31,373	Karen White																																		
P462D1631	Execute DPU SSIT (Main)	21-Dec-21	27-Jan-22	12-Oct-21	08-Nov-21	0%	20	\$31,373	Karen White																																		
P462D1801	DPU Verification Complete (Main)		27-Jan-22		08-Nov-21	0%	0	\$0	Karen White																																		

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																																
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
P04.06.02.02.04.09 TestArticle - Oscilloscope																																										
P462D1281	Procure Oscilloscope Test Article	20-Dec-19 A	02-Jan-20 A	20-Dec-19	02-Jan-20	100%	0	\$0	Karen White																																	
P462D1291	Fabricate Oscilloscope Test Article	02-Jan-20 A	23-Jan-20 A	02-Jan-20	23-Jan-20	100%	0	\$0	Karen White																																	
P462D1301	Fabrication Complete - Oscilloscope Test Article		23-Jan-20 A		23-Jan-20	100%	0	\$0	Karen White																																	
P462D1311	Receive Oscilloscope Test Article	24-Jan-20 A	24-Jan-20 A	24-Jan-20	24-Jan-20	100%	0	\$0	Karen White																																	
P04.06.02.02.04.10 TestArticle - Safety PLC																																										
P462D1002	Prepare Safety PLC Tech Spec/SOW	11-Nov-19 A	09-Dec-19 A	11-Nov-19	09-Dec-19	100%	0	\$0	Karen White																																	
P462D1004	Procure Safety PLC Test Article	10-Dec-19 A	20-Dec-19 A	10-Dec-19	20-Dec-19	100%	0	\$0	Karen White																																	
P462D1006	Fabricate Safety PLC Test Article	23-Dec-19 A	21-Feb-20 A	23-Dec-19	21-Feb-20	100%	0	\$0	Karen White																																	
P462D1008	Fabrication Complete - Safety PLC Test Article		21-Feb-20 A		21-Feb-20	100%	0	\$0	Karen White																																	
P462D1010	Receive Safety PLC Test Article	24-Feb-20 A	25-Feb-20 A	24-Feb-20	25-Feb-20	100%	0	\$0	Karen White																																	
P04.06.02.02.04.11 TestArticle - Pulse Generator																																										
P04.06.02.02.04.11.01 Final Design - Pulse Generator																																										
P462D184	Write Requirements - Pulse Generator Test Article	01-Jun-21	07-Jun-21	11-Jan-21	15-Jan-21	0%	5	\$462	Karen White																																	
P04.06.02.02.04.11.02 Implement - Pulse Generator																																										
P462D136	Procure Pulse Generator Test Article	08-Jun-21	28-Jun-21	19-Jan-21	08-Feb-21	0%	15	\$462	Karen White																																	
P462D147	Fabricate Pulse Generator Test Article	29-Jun-21	22-Sep-21	09-Feb-21	04-May-21	0%	60	\$0	Karen White																																	
P462D186	Perform Factory Acceptance Test - Pulse Generator Test Article	16-Sep-21	22-Sep-21	28-Apr-21	04-May-21	0%	5	\$0	Karen White																																	
P462D138	Fabrication Complete - Pulse Generator Test Article		22-Sep-21		04-May-21	0%	0	\$0	Karen White																																	
P462D139	Receive Pulse Generator Test Article	23-Sep-21	23-Sep-21	05-May-21	05-May-21	0%	1	\$24,280	Karen White																																	
P04.06.02.02.04.11.03 Test - Pulse Generator																																										
P462D185	Perform Site Acceptance Test - Pulse Generator Test Article	24-Sep-21	30-Sep-21	06-May-21	12-May-21	0%	5	\$462	Karen White																																	
P04.06.02.02.04.12 Calibration Standard																																										
P462D2162	Receive Calibration Kit (balance of PO)	03-May-21 A	07-May-21 A	25-Feb-21	10-Mar-21	100%	0	\$11,397	Karen White																																	
P462D2232	Design Calibration Standard	12-Jul-21*	23-Jul-21	25-Feb-21	10-Mar-21	0%	10	\$10,302	Karen White																																	
P462D2172	Procure/Fabricate Calibration Standard	26-Jul-21	20-Sep-21	11-Mar-21	06-May-21	0%	40	\$6,760	Karen White																																	
P462D2182	Implement Calibration Standard with Software - Network Analyzer	21-Sep-21	18-Oct-21	07-May-21	04-Jun-21	0%	20	\$5,918	Karen White																																	
P462D2192	Implement Calibration Standard with Software - Pulser	21-Sep-21	18-Oct-21	07-May-21	04-Jun-21	0%	20	\$5,918	Karen White																																	
P462D2202	Implement Calibration Standard with Software - Micro-ohm-meter	21-Sep-21	18-Oct-21	07-May-21	04-Jun-21	0%	20	\$5,918	Karen White																																	
P462D2212	ADC Calibration / Volt Meter	19-Oct-21	15-Nov-21	07-Jun-21	02-Jul-21	0%	20	\$32,937	Karen White																																	
P462D2222	Compile Calibration Record	16-Nov-21	01-Dec-21	06-Jul-21	19-Jul-21	0%	10	\$6,009	Karen White																																	
P04.06.02.02.04.14 Software Licenses to Support TestArticle Development																																										
P462D1014	Procure Software Licenses to Support TestArticle Development - Part A	26-Aug-19 A	31-Aug-19 A	26-Aug-19	31-Aug-19	100%	0	\$0	Karen White																																	



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Periods																												
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035	FY2036	FY2037	FY2038	FY2039	FY2040	FY2041	FY2042		
P462D1014B	Procure Software Licenses to Support Test Article Development - Part B	01-Nov-19 A	31-Mar-20 A	01-Nov-19	31-Mar-20	100%	0	\$0	Karen White																													
P462D1020	Receive Software Licenses to Support Test Article Development (software download)	13-Jul-20 A	16-Jul-20 A	13-Jul-20	16-Jul-20	100%	0	\$0	Karen White																													
P462D1199	Process Software License Renewals	01-Jun-21	28-Jun-21	18-Feb-21	17-Mar-21	0%	20	\$462	Karen White																													
P462D1202	Receive Software License Renewals (software download)	29-Jun-21	01-Jul-21	18-Mar-21	22-Mar-21	0%	3	\$32,808	Karen White																													
<b>P04.06.02.02.04.15 Verify and Validate (V&amp;V)</b>		22-Jan-20 A	22-Sep-21	22-Jan-20	14-Feb-22		80	\$27,737																														
P462D855	Attend DO-254 Training	22-Jan-20 A	24-Jan-20 A	22-Jan-20	24-Jan-20	100%	0	\$0	Karen White																													
P462D1022-1	Develop and Maintain Design Compliance Matrix - Phase 1	20-Apr-20 A	15-Jul-20 A	20-Apr-20	15-Jul-20	100%	0	\$0	Karen White																													
<b>P04.06.02.02.04.15.04 V&amp;V Safety PLC Test Article</b>		01-Jun-21	27-Jul-21	01-Feb-21	26-Mar-21		40	\$9,246																														
P462D162*	*Prepare Safety PLC Subsystem Integration Test Specification (SSIT)	01-Jun-21	28-Jun-21	01-Feb-21	26-Feb-21	0%	20	\$4,623	Karen White																													
P462D162*	*Execute Safety PLC SSIT	29-Jun-21	27-Jul-21	01-Mar-21	26-Mar-21	0%	20	\$4,623	Karen White																													
<b>P04.06.02.02.04.15.05 V&amp;V Current Transformer Test Article</b>		28-Jul-21	22-Sep-21	29-Mar-21	24-May-21		40	\$9,246																														
P462D166*	*Prepare Current Transformer Subsystem Integration Test Specification (SSIT)	28-Jul-21	24-Aug-21	29-Mar-21	26-Apr-21	0%	20	\$4,623	Karen White																													
P462D166*	*Execute Current Transformer SSIT	25-Aug-21	22-Sep-21	27-Apr-21	24-May-21	0%	20	\$4,623	Karen White																													
<b>P04.06.02.02.04.15.06 V&amp;V System Integration</b>		01-Jun-21	28-Jun-21	09-Dec-21	14-Jan-22		20	\$4,623																														
P462D1611*	*Prepare System Integration Test Specification	01-Jun-21	28-Jun-21	09-Dec-21	14-Jan-22	0%	20	\$4,623	Karen White																													
<b>P04.06.02.02.04.15.07 V&amp;V Systems Test</b>		29-Jun-21	27-Jul-21	18-Jan-22	14-Feb-22		20	\$4,623																														
P462D160*	*Prepare Systems Test Specification	29-Jun-21	27-Jul-21	18-Jan-22	14-Feb-22	0%	20	\$4,623	Karen White																													
<b>P04.06.02.02.04.16 Integrate Test Articles</b>		21-Dec-21	18-Feb-22	24-Aug-21	21-Oct-21		36	\$144,928																														
P462D1205	Integrate Test Articles for FDR	21-Dec-21	21-Jan-22	24-Aug-21	15-Sep-21	0%	16	\$68,679	Karen White																													
P462D945	Integrate Test Articles - Post-FDR Modifications	24-Jan-22	18-Feb-22	24-Sep-21	21-Oct-21	0%	20	\$76,250	Karen White																													
<b>P04.06.02.02.05 PPS Interface Design First Article Hardware</b>		01-Mar-21 A	22-Jun-21	18-Feb-21	07-Jun-21		16	\$53,452																														
<b>P04.06.02.02.05.01 Test Article - PPS Interface Components</b>		01-Mar-21 A	22-Jun-21	18-Feb-21	07-Jun-21		16	\$53,452																														
P462D353	Procure Test Article PPS Interface Components	01-Mar-21 A	05-Mar-21 A	25-Feb-21	24-Mar-21	100%	0	\$2,604	Karen White																													
P462D351	Prepare Tech Spec Test Article PPS Interface Components	01-Mar-21 A	05-Mar-21 A	18-Feb-21	24-Feb-21	100%	0	\$5,236	Karen White																													
P462D354	Fabricate Test Article PPS Interface Components	08-Mar-21 A	21-May-21 A	25-Mar-21	20-May-21	100%	0	\$0	Karen White																													
P462D640	Fabrication of Test Article PPS Interface Components Complete		21-May-21 A		20-May-21	100%	0	\$0	Karen White																													
P462D650	Receive Test Article PPS Interface Components	24-May-21 A	24-May-21 A	21-May-21	21-May-21	100%	0	\$38,951	Karen White																													
P462D1229	Build Test Article PPS Interface	25-May-21 A	22-Jun-21	24-May-21	07-Jun-21	5%	16	\$6,661	Karen White																													
<b>P04.06.02.03 Procure/Fab - Beam Power Limit System - (NEP46230)</b>		03-May-21 A	04-Mar-22	01-Jun-21	25-Mar-22		187	\$652,574																														
<b>P04.06.02.03.01 Procure/Fab Current Monitor and Stand</b>		01-Jun-21	18-Feb-22	01-Jun-21	16-Feb-22		177	\$248,345																														
<b>P04.06.02.03.01.01 Procure/Fab Current Monitor</b>		01-Jun-21	18-Feb-22	01-Jun-21	16-Feb-22		177	\$225,176																														
P462P203	Prepare SOW & Tech Spec for BPLS Current Monitors	01-Jun-21	14-Jun-21	01-Jun-21	14-Jun-21	0%	10	\$4,041	Karen White																													
P462P205	Conduct Procurement Readiness Review (PRR) for BPLS Current Monitors	15-Jun-21	21-Jun-21	15-Jun-21	21-Jun-21	0%	5	\$974	Karen White																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P462P207	Technical Package to Procurement for BPLS Current Monitors		21-Jun-21		21-Jun-21	0%	0	\$0	Karen White															
P462P209	Procurement Review and Bid for BPLS Current Monitors	22-Jun-21	13-Jul-21	22-Jun-21	13-Jul-21	0%	15	\$1,646	Karen White															
P462P208	Issue RFP for BPLS Current Monitors		13-Jul-21		13-Jul-21	0%	0	\$0	Karen White															
P462P211	Solicitation Period for BPLS Current Monitors	14-Jul-21	17-Aug-21	14-Jul-21	17-Aug-21	0%	25	\$2,938	Karen White															
P462P713	Solicitation Complete for BPLS Current Monitors		17-Aug-21		17-Aug-21	0%	0	\$0	Karen White															
P462P217	Review and Negotiate Contract for BPLS Current Monitors	18-Aug-21	08-Sep-21	18-Aug-21	08-Sep-21	0%	15	\$1,646	Karen White															
P462P723	Award Contract - Release Contract for BPLS Current Monitors	09-Sep-21	10-Sep-21	09-Sep-21	10-Sep-21	0%	2	\$185	Karen White															
P462P220	Fabricate Current Monitors for BPLS	13-Sep-21	13-Jan-22	13-Sep-21	13-Jan-22	0%	80	\$0	Karen White															
P462P733	Interface with Supplier during Fabrication of Current Monitors for BPLS (LOE)	13-Sep-21	13-Jan-22	13-Sep-21	13-Jan-22	0%	80	\$5,969	Karen White															
P462P221	Factory Acceptance Test for BPLS Current Monitors	14-Jan-22	19-Jan-22	14-Jan-22	19-Jan-22	0%	3	\$13,612	Karen White															
P462P230	Fabrication Complete - CBPLS Current Monitors		19-Jan-22		19-Jan-22	0%	0	\$0	Karen White															
P462P240	Receive BPLS Current Monitors	20-Jan-22	26-Jan-22	20-Jan-22	26-Jan-22	0%	5	\$183,164	Karen White															
P462P242	Characterize BPLS Current Monitors	27-Jan-22	09-Feb-22	27-Jan-22	09-Feb-22	0%	10	\$7,512	Karen White															
P462P243	Ready for Next Assembly - BPLS Current Monitors		09-Feb-22		09-Feb-22	0%	0	\$0	Karen White															
P462P245	Integrate BPLS Current Monitor with Stand	14-Feb-22	18-Feb-22	10-Feb-22	16-Feb-22	0%	5	\$3,490	Karen White															
<b>P04.06.02.03.01.02 Procure/Fab BPLS Stand</b>		<b>25-Oct-21</b>	<b>11-Feb-22</b>	<b>17-Sep-21</b>	<b>05-Jan-22</b>		<b>70</b>	<b>\$23,169</b>																
P462P253	Prepare SOW and Tech Spec for BPLS Lab Stand	25-Oct-21	05-Nov-21	17-Sep-21	30-Sep-21	0%	10	\$2,762	Karen White															
P462P580	Procure BPLS Lab Stand	15-Nov-21	07-Dec-21	08-Oct-21	28-Oct-21	0%	15	\$1,095	Karen White															
P462P590	Fabricate BPLS Lab Stand	08-Dec-21	28-Jan-22	29-Oct-21	13-Dec-21	0%	30	\$0	Karen White															
P462P600	Fabrication Complete - BPLS Lab Stand		28-Jan-22		13-Dec-21	0%	0	\$0	Karen White															
P462P610	Receive BPLS Lab Stand	31-Jan-22	04-Feb-22	14-Dec-21	20-Dec-21	0%	5	\$17,408	Karen White															
P462P620	Assemble BPLS Lab Stand	07-Feb-22	11-Feb-22	21-Dec-21	05-Jan-22	0%	5	\$1,904	Karen White															
<b>P04.06.02.03.02 Procure/Fab PSI</b>		<b>03-May-21 A</b>	<b>21-Dec-21</b>	<b>01-Jun-21</b>	<b>07-Jan-22</b>		<b>142</b>	<b>\$41,443</b>																
P462D2102	Prepare Tech Spec/SOW - PSI	03-May-21 A	11-May-21 A	01-Jun-21	14-Jun-21	100%	0	\$9,164	Karen White															
P462P250	Procure PSI	12-May-21 A	19-May-21 A	15-Jun-21	06-Jul-21	100%	0	\$950	Karen White															
P462P260	Fabricate PSI	20-May-21 A	15-Sep-21	07-Jul-21	24-Nov-21	5%	75	\$0	Karen White															
P462P270	Fabrication Complete - PSI		15-Sep-21		24-Nov-21	0%	0	\$0	Karen White															
P462P280	Receive PSI	16-Sep-21	20-Sep-21	29-Nov-21	01-Dec-21	0%	3	\$17,352	Karen White															
P462P285	Assemble PSI	22-Nov-21	21-Dec-21	02-Dec-21	07-Jan-22	0%	20	\$13,977	Karen White															
<b>P04.06.02.03.03 Procure/Fab DPU/Platform</b>		<b>03-May-21 A</b>	<b>27-Jan-22</b>	<b>01-Jun-21</b>	<b>07-Jan-22</b>		<b>161</b>	<b>\$172,832</b>																
P462D1136	Prepare Tech Spec/SOW - DPU/Platform	03-May-21 A	11-May-21 A	01-Jun-21	14-Jun-21	100%	0	\$4,284	Karen White															
P462D1139	Procure DPU/Platform (Qty 2)	12-May-21 A	19-May-21 A	15-Jun-21	06-Jul-21	100%	0	\$462	Karen White															
P462D1142	Fabricate DPU/Platform (Qty 2)	20-May-21 A	15-Sep-21	07-Jul-21	24-Nov-21	0%	75	\$0	Karen White															







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Allocation																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P04.06.03.03 Procure/Fab - Personnel Protection System - (NEP46330)		01-Jun-21	21-Oct-22	07-Jul-21	21-Oct-22		348	\$128,807																													
P04.06.03.03.01 Procure/Fab - Personnel Protection System		10-Jan-22	21-Oct-22	10-Jan-22	21-Oct-22		200	\$43,824																													
P463P220	Procure Radiation Monitor (plus spare)	10-Jan-22*	07-Feb-22	10-Jan-22	07-Feb-22	0%	20	\$481	Karen White																												
P463P250	Fabricate Radiation Monitors	08-Feb-22	25-Aug-22	08-Feb-22	25-Aug-22	0%	140	\$0	Karen White																												
P463P210	Procure/Receive Cable, Conduit, Junction Boxes	30-Jun-22	25-Aug-22	30-Jun-22	25-Aug-22	0%	40	\$5,253	Karen White																												
P463P255	Fabrication of Radiation Monitors Complete		25-Aug-22		25-Aug-22	0%	0	\$0	Karen White																												
P463P200	Update PPS Software	26-Aug-22	21-Oct-22	26-Aug-22	21-Oct-22	0%	40	\$12,374	Karen White																												
P463P260	Receive Radiation Monitor	26-Aug-22	01-Sep-22	26-Aug-22	01-Sep-22	0%	5	\$11,917	Karen White																												
P463P270	Receive Radiation Monitor - Spare	26-Aug-22	01-Sep-22	26-Aug-22	01-Sep-22	0%	5	\$11,917	Karen White																												
P463P240	Calibrate Radiation Monitors	02-Sep-22	16-Sep-22	02-Sep-22	16-Sep-22	0%	10	\$1,881	Karen White																												
P04.06.03.03.02 Procure/Fab - PPS Portion of Ring RTBT Stub		01-Jun-21	11-Oct-22	07-Jul-21	11-Oct-22		340	\$84,983																													
P463P225	Procure RTBT PPS CAB PLC Equipment (Ring Scope)	01-Jun-21	28-Jun-21	07-Jul-21	03-Aug-21	0%	20	\$755	Karen White																												
P463P290	Procure RTBT PPS CAB Replacement (Ring Scope)	01-Jun-21	28-Jun-21	07-Jul-21	03-Aug-21	0%	20	\$755	Karen White																												
P463P430	Fabricate RTBT PPS CAB PLC Equipment (Ring Scope)	29-Jun-21	08-Sep-21	04-Aug-21	13-Oct-21	0%	50	\$0	Karen White																												
P463P480	Fabricate RTBT PPS CAB Replacement (Ring Scope)	29-Jun-21	08-Sep-21	04-Aug-21	13-Oct-21	0%	50	\$0	Karen White																												
P463P280	FAT/QA RTBT PPS CAB Replacement (Ring Scope)	01-Sep-21	08-Sep-21	07-Oct-21	13-Oct-21	0%	5	\$1,505	Karen White																												
P463P440	Fabrication of RTBT PPS CAB Replacement Complete (Ring Scope)		08-Sep-21		13-Oct-21	0%	0	\$0	Karen White																												
P463P460	Fabrication of RTBT PPS CAB PLC Equipment Complete (Ring Scope)		08-Sep-21		13-Oct-21	0%	0	\$0	Karen White																												
P463P450	Receive RTBT PPS CAB Replacement (Ring Scope)	09-Sep-21	09-Sep-21	14-Oct-21	14-Oct-21	0%	1	\$17,759	Karen White																												
P463P470	Receive RTBT PPS CAB PLC Equipment (Ring Scope)	09-Sep-21	09-Sep-21	14-Oct-21	14-Oct-21	0%	1	\$24,378	Karen White																												
P463P160	Procure Radiation Monitor Interface Cabinet (Ring Scope)	11-Jul-22*	29-Jul-22	11-Jul-22	29-Jul-22	0%	15	\$9,757	Karen White																												
P463P390	Fabricate Radiation Monitor Interface Cabinet (Ring Scope)	01-Aug-22	10-Oct-22	01-Aug-22	10-Oct-22	0%	50	\$9,802	Karen White																												
P463P400	FAT/QA Radiation Monitor Interface Cabinet (Ring Scope)	04-Oct-22	10-Oct-22	04-Oct-22	10-Oct-22	0%	5	\$10,136	Karen White																												
P463P410	Fabrication of Radiation Monitor Interface Cabinet Complete (Ring Scope)		10-Oct-22		10-Oct-22	0%	0	\$0	Karen White																												
P463P420	Receive Radiation Monitor Interface Cabinet (Ring Scope)	11-Oct-22	11-Oct-22	11-Oct-22	11-Oct-22	0%	1	\$10,136	Karen White																												
P04.06.03.04 Installation - Personnel Protection System		10-Sep-21	06-Sep-23	15-Oct-21	06-Sep-23		490	\$53,118																													
P04.06.03.04.01 Installation - Personnel Protection System		05-Apr-23	06-Sep-23	05-Apr-23	06-Sep-23		106	\$36,733																													
P463I220	Install PPS Software	05-Apr-23	12-Apr-23	05-Apr-23	12-Apr-23	0%	5	\$2,534	Karen White																												
P463I240	Test PPS Software	13-Apr-23	26-Apr-23	13-Apr-23	26-Apr-23	0%	10	\$6,335	Karen White																												
P463I200	Create Installation Work Package	20-Apr-23	26-Apr-23	20-Apr-23	26-Apr-23	0%	5	\$3,243	Karen White																												
P463I210	Install Cable, Conduit, Junction Boxes	02-Aug-23	15-Aug-23	02-Aug-23	15-Aug-23	0%	10	\$6,432	Karen White																												
P463I230	Install Radiation Monitor	16-Aug-23	22-Aug-23	16-Aug-23	22-Aug-23	0%	5	\$1,976	Karen White																												
P463I250	Certify PPS	23-Aug-23	06-Sep-23	23-Aug-23	06-Sep-23	0%	10	\$16,214	Karen White																												

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1								13-Aug-21 10:10														
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P4634IMS001	P.04.06.03.04 Personnel Protection System _ Installation Complete		06-Sep-23		06-Sep-23	0%	0	\$0	Karen White															
P04.06.03.04.02 Installation - PPS Portion of Ring RTBT Stub		10-Sep-21	17-Feb-23	15-Oct-21	17-Feb-23		352	\$16,385																
P463P261	Lab Test RTBT PPS CAB PLC Equipment (Ring Scope)	10-Sep-21	07-Oct-21	15-Oct-21	11-Nov-21	0%	20	\$2,371	Karen White															
P463P300	Prepare RTBT PPS CAB Software Modifications (Ring Scope) - PLC	10-Sep-21	07-Oct-21	15-Oct-21	11-Nov-21	0%	20	\$467	Karen White															
P463P310	Remove Existing RTBT PPS CAB (Ring Scope)	22-Oct-21	22-Oct-21	22-Oct-21	22-Oct-21	0%	1	\$481	Karen White															
P463P320	Install RTBT PPS CAB Replacement (Ring Scope)	25-Oct-21	25-Oct-21	25-Oct-21	25-Oct-21	0%	1	\$481	Karen White															
P463P330	Terminate Cables RTBT PPS CAB Replacement (Ring Scope)	26-Oct-21	01-Nov-21	26-Oct-21	01-Nov-21	0%	5	\$481	Karen White															
P463P340	Perform Field Checkout of RTBT PPS CAB Replacement (Ring Scope)	02-Nov-21	15-Nov-21	12-Nov-21	29-Nov-21	0%	10	\$481	Karen White															
P463P360	RTBT PPS Cab Ready for Certification (Ring Scope)		15-Nov-21		29-Nov-21	0%	0	\$0	Karen White															
P463P350	Update Linac PPS Certification Procedure to add PPS Scope of RTBT PPS	16-Nov-21	22-Nov-21	30-Nov-21	06-Dec-21	0%	5	\$481	Karen White															
P463P271	Lab Test Radiation Monitor Interface Cabinet (Ring Scope)	12-Oct-22	08-Nov-22	12-Oct-22	08-Nov-22	0%	20	\$2,534	Karen White															
P463P370	Modify Stub BSS (Ring Scope)	01-Feb-23*	01-Feb-23	01-Feb-23	01-Feb-23	0%	1	\$502	Karen White															
P463P380	Install Stub BSS (Ring Scope)	02-Feb-23	02-Feb-23	02-Feb-23	02-Feb-23	0%	1	\$502	Karen White															
P463I280	Install Radiation Monitor Interface Cabinet (Ring Scope)	03-Feb-23	03-Feb-23	03-Feb-23	03-Feb-23	0%	1	\$2,534	Karen White															
P463I290	Terminate Cables Radiation Monitor Interface Cabinet (Ring Scope)	06-Feb-23	10-Feb-23	06-Feb-23	10-Feb-23	0%	5	\$2,534	Karen White															
P463I300	Perform Field Checkout of Cables Radiation Monitor Interface Cabinet (Ring Scope)	13-Feb-23	17-Feb-23	13-Feb-23	17-Feb-23	0%	5	\$2,534	Karen White															
P04.06.04 Ring Injection Section Controls		12-Nov-18 A	26-Apr-23	12-Nov-18	26-Apr-23		427	\$145,758																
P04.06.04.02 Design - Ring Injection Section Controls - (NEP46420)		12-Nov-18 A	27-Aug-21	12-Nov-18	08-Jun-21		20	\$2,890																
P464D100	Prepare Preliminary Design Water Controls & Draft Drawings	12-Nov-18 A	20-Feb-19 A	12-Nov-18	20-Feb-19	100%	0	\$0	Karen White															
P464D230	Design PLC controls: PLC I/O module wiring diagrams - Part A	12-Jan-19 A	31-Mar-19 A	12-Jan-19	31-Mar-19	100%	0	\$0	Karen White															
P464D130	Water Design PLC controls: CF_RN:Enc8540B mech ass'y drawing	14-Jan-19 A	18-Jan-19 A	14-Jan-19	18-Jan-19	100%	0	\$0	Karen White															
P464D140	Water Design PLC controls: CF_RN:Enc8540B power wiring drawing	21-Jan-19 A	23-Jan-19 A	21-Jan-19	23-Jan-19	100%	0	\$0	Karen White															
P464D170	Prepare for Ring System Preliminary Design Review Meeting - Water Controls	01-Feb-19 A	07-Mar-19 A	01-Feb-19	07-Mar-19	100%	0	\$0	Karen White															
P464D175	Ready for Ring System Preliminary Design Review Meeting - Water Controls		18-Feb-19 A		18-Feb-19	100%	0	\$0	Karen White															
P464D180	Prepare Final Design Water Controls & Draft Drawings	01-Apr-19 A	29-Apr-19 A	01-Apr-19	29-Apr-19	100%	0	\$0	Karen White															
P464D230B	Design PLC controls: PLC I/O module wiring diagrams - Part B	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	Karen White															
P464D200	Prepare Design for injection dump quadrupole power supply control interface	02-Aug-21*	27-Aug-21	11-May-21	08-Jun-21	0%	20	\$2,890	Karen White															
P04.06.04.03 Procure/Fab - Ring Injection Section Controls		01-Feb-22	06-Jul-22	01-Feb-22	06-Jul-22		109	\$91,393																
P464P150	Procure Ring PLC System	01-Feb-22*	21-Feb-22	01-Feb-22	21-Feb-22	0%	15	\$857	Karen White															
P464P230	Fabricate Ring PLC System	22-Feb-22	28-Mar-22	22-Feb-22	28-Mar-22	0%	25	\$2,975	Karen White															
P464P260	Interface with Supplier During Fabrication of the Ring PLC System	22-Feb-22	28-Mar-22	22-Feb-22	28-Mar-22	0%	25	\$2,975	Karen White															
P464P235	Fabrication of Ring PLC System Complete		28-Mar-22		28-Mar-22	0%	0	\$0	Karen White															
P464P240	Receive Ring PLC System	29-Mar-22	29-Mar-22	29-Mar-22	29-Mar-22	0%	1	\$40,784	Karen White															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P472D30C	Run neutronics RTBT stub simulations - Part C	03-Sep-19 A	15-Oct-19 A	03-Sep-19	15-Oct-19	100%	0	\$0	Nick Evans															
P04.07.02.04 Installation - RTBT Stub Temporary Shielding		27-Jun-23	29-Aug-23	27-Jun-23	29-Aug-23		44	\$129,505																
P472111	Install temporary shielding wall (concrete blocks)	27-Jun-23	01-Aug-23	27-Jun-23	01-Aug-23	0%	25	\$104,443	Nick Evans															
P4724IMS001	P.04.07.02.04 RTBT Stub Temporary Shielding_Installation Complete		01-Aug-23		01-Aug-23	0%	0	\$0	Nick Evans															
P472MDOC2	P.04.07 RTBT Stub - Compile Documentation for ARR Phase 2 (LOE)	02-Aug-23	29-Aug-23	02-Aug-23	29-Aug-23	0%	20	\$25,062	Nick Evans															
P04.07.03 RTBT Stub Earth Berm Shielding		15-Feb-19 A	25-Oct-19 A	15-Feb-19	25-Oct-19		0	\$0																
P473MS001	Earth berm neutronics calculations complete		15-Oct-19 A		15-Oct-19	100%	0	\$0	Nick Evans															
P04.07.03.02 Design - RTBT Stub Earth Berm Shielding - (NEP47320)		15-Feb-19 A	25-Oct-19 A	15-Feb-19	25-Oct-19		0	\$0																
P473D100	Define dimensions and location of earth berm for RTBT stub - Part A	15-Feb-19 A	31-Mar-19 A	15-Feb-19	31-Mar-19	100%	0	\$0	Nick Evans															
P473D100B	Define dimensions and location of earth berm for RTBT stub - Part B	20-May-19 A	31-Aug-19 A	20-May-19	31-Aug-19	100%	0	\$0	Nick Evans															
P473D100C	Define dimensions and location of earth berm for RTBT stub - Part C	03-Sep-19 A	13-Sep-19 A	03-Sep-19	13-Sep-19	100%	0	\$0	Nick Evans															
P473D110	Evaluate and document the impact of 1.3 GeV, 2.8 MW beam in the RTBT (2.0 MW downstream of DH13)	23-Sep-19 A	25-Oct-19 A	23-Sep-19	25-Oct-19	100%	0	\$0	Nick Evans															
P04.08 Accelerator Physics		03-Oct-16 A	08-May-23	03-Oct-16	08-May-23		478	\$72,990																
P04.08.01 Accelerator Physics		03-Oct-16 A	08-May-23	03-Oct-16	08-May-23		478	\$72,990																
P04.08.01.02 Design - Accelerator Physics - (NEP48120)		03-Oct-16 A	08-May-23	03-Oct-16	08-May-23		478	\$72,990																
P481D1	GeneralAP Studies as Needed FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Nick Evans															
P481D41M	GeneralAP Studies as Needed FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Nick Evans															
P481D6	GeneralAP Studies as Needed FY18 (May through Sept)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Nick Evans															
P482D50	Preliminary Nominal Beam Profile Data on PBW, and Target (with and without PBW) to Neutronics	14-Jun-18 A	30-Jul-18 A	14-Jun-18	30-Jul-18	100%	0	\$0	Nick Evans															
P482D60	Preliminary Over-Focused Beam Profile Data on PBW to Neutronics	23-Jul-18 A	25-Jul-18 A	23-Jul-18	25-Jul-18	100%	0	\$0	Nick Evans															
P482D70	Preliminary Under-Focused Beam Profile Data on PBW to Neutronics	23-Jul-18 A	25-Jul-18 A	23-Jul-18	25-Jul-18	100%	0	\$0	Nick Evans															
P481D100	Preliminary Beam Profiles Document Reviewed and Issued	01-Oct-18 A	18-Dec-18 A	01-Oct-18	18-Dec-18	100%	0	\$0	Nick Evans															
P481D130	GeneralAP Studies as Needed FY19 (LOE) - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Nick Evans															
P481D110	Check Beam Optics Design for First Part of R2T2 Beam Line	17-Dec-18 A	31-Jan-19 A	17-Dec-18	31-Jan-19	100%	0	\$0	Nick Evans															
P481D130B	GeneralAP Studies as Needed FY19 (LOE) - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Nick Evans															
P481D130C	GeneralAP Studies as Needed FY19 (LOE) - Part C	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Nick Evans															
P481D150	GeneralAP Studies as Needed FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Nick Evans															
P481D120	Final Nominal, Under-Focused and Over-Focused Beam Profile Data on PBW, and Target (with and without PBW) to Neutronics	20-Nov-19 A	07-Jan-20 A	20-Nov-19	07-Jan-20	100%	0	\$0	Nick Evans															
P481D140	Final Beam Profiles Document Reviewed and Issued	08-Jan-20 A	31-Mar-20 A	08-Jan-20	31-Mar-20	100%	0	\$0	Nick Evans															
P481D150B	GeneralAP Studies as Needed FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Nick Evans															
P481D140B	Final Beam Profiles Document Reviewed and Issued - Continued	16-Jun-20 A	30-Jun-20 A	16-Jun-20	30-Jun-20	100%	0	\$0	Nick Evans															
P481D160	GeneralAP Studies as Needed FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Nick Evans															
P481D160b	GeneralAP Studies as Needed FY21 (LOE) - continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$20,854	Nick Evans															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P481D170	General AP Studies as Needed FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$29,295	Nick Evans															
P481D180	General AP Studies as Needed FY23 (LOE)	03-Oct-22	08-May-23	03-Oct-22	08-May-23	0%	145	\$22,841	Nick Evans															
<b>P05 First Target Station Systems</b>		03-Oct-16 A	30-Sep-24	03-Oct-16	30-Sep-24		825	\$23,439,264																
<b>P05.01 Management and System Integration - First Target Station Systems</b>		03-Oct-16 A	30-Sep-24	03-Oct-16	30-Sep-24		825	\$1,955,441																
OPS009	Improvements Due to Jet Flow Demonstrated (External MS)		01-Aug-17 A		01-Aug-17	100%	0	\$0	Bernie Riemer															
OPS005	First Measurement of Strain Reduction with Gas Injection (External MS)		01-Nov-17 A		01-Nov-17	100%	0	\$0	Bernie Riemer															
OPS002	Results from SNS Operation of GI3 Available (External MS)		22-Feb-18 A		22-Feb-18	100%	0	\$0	Bernie Riemer															
OPS004	Repeatable Strain Reduction of at Least 40% Measured on Two Targets (External MS)		21-May-18 A		21-May-18	100%	0	\$0	Bernie Riemer															
OPS008	Demonstrate Stable Operation with Gas Injection (External MS)		29-Jun-18 A		29-Jun-18	100%	0	\$0	Bernie Riemer															
OPS007	Start Operation at 1.4 MW (External MS)		03-Sep-18 A		03-Sep-18	100%	0	\$0	Bernie Riemer															
OPS006	Erosion Reduction Due to Gas Injection Demonstrated (External MS)		27-Sep-18 A		27-Sep-18	100%	0	\$0	Bernie Riemer															
OPS015	Update of CMS operational health and outlook for 2MW readiness - FY19 (External MS)		29-Aug-19 A		29-Aug-19	100%	0	\$0	Bernie Riemer															
P05PDC	P.5 Preliminary Designs Complete		06-Jan-20 A		06-Jan-20	100%	0	\$0	Bernie Riemer															
OPS013	IRP3 Thermal Analysis with PPU Beam (External MS)		03-Feb-20 A		03-Feb-20	100%	0	\$0	Bernie Riemer															
OPS020	Update of CMS operational health and outlook for 2MW readiness - FY20A (External MS)		03-Feb-20 A		03-Feb-20	100%	0	\$0	Bernie Riemer															
P05FDC10	P.5 Scope for Final Design at CD-3 Review Complete		24-Jun-20 A		24-Jun-20	100%	0	\$0	Bernie Riemer															
OPS025	Update of CMS operational health and outlook for 2MW readiness - FY20B (External MS)		31-Aug-20 A		31-Aug-20	100%	0	\$0	Bernie Riemer															
OPS030	Update of CMS operational health and outlook for 2MW readiness - FY21A (External MS)		26-Feb-21 A		26-Feb-21	100%	0	\$0	Bernie Riemer															
OPS035	Update of CMS operational health and outlook for 2MW readiness - FY21B (External MS)		31-Aug-21*		31-Aug-21	0%	0	\$0	Bernie Riemer															
P05FDC	P.5 Final Designs Complete		14-Sep-21		01-Oct-21	0%	0	\$0	Bernie Riemer															
OPS040	Update of CMS operational health and outlook for 2MW readiness - FY22A (External MS)		28-Feb-22*		28-Feb-22	0%	0	\$0	Bernie Riemer															
OPS045	Update of CMS operational health and outlook for 2MW readiness - FY22B (External MS)		31-Aug-22*		31-Aug-22	0%	0	\$0	Bernie Riemer															
P05IT01	P.05 FTS Integrated Systems Testing Phase 1 Complete		19-Sep-22		16-Aug-22	0%	0	\$0	Bernie Riemer															
P05DOC1	P.05 FTS Documentation for IRR/ERR Phase 1 Complete		26-Sep-22		23-Aug-22	0%	0	\$0	Bernie Riemer															
OPS050	Update of CMS operational health and outlook for 2MW readiness - FY23A (External MS)		28-Feb-23*		28-Feb-23	0%	0	\$0	Bernie Riemer															
P05010	Cryogenic Moderator system upgrades for 2MW complete		26-Apr-23		26-Apr-23	0%	0	\$0	Bernie Riemer															
P05PB1	P.05 Extended Outage Pre Beam ARR Systems Testing and Documetation Complete		29-Jun-23		29-Jun-23	0%	0	\$0	Bernie Riemer															
OPS055	Update of CMS operational health and outlook for 2MW readiness - FY23B (External MS)		31-Aug-23*		31-Aug-23	0%	0	\$0	Bernie Riemer															
P05IT02	P.05 FTS Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Bernie Riemer															
P05DOC2	P.05 FTS Documentation for ARR Phase 2A Complete		25-Sep-23		25-Sep-23	0%	0	\$0	Bernie Riemer															
P05IT03	P.05 FTS Integrated Systems Testing Phase 3 Complete		19-Mar-24		19-Mar-24	0%	0	\$0	Bernie Riemer															
P05DOC3	P.05 FTS Documentation for IRR/ERR Phase 3 Complete		26-Mar-24		26-Mar-24	0%	0	\$0	Bernie Riemer															
<b>P05.01.01 Management and System Integration - First Target Station Systems</b>		03-Oct-16 A	30-Sep-24	03-Oct-16	30-Sep-24		825	\$1,955,441																

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P511M1	P.5 Management FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Bernie Riemer																						
P511M211	Finalize Target Development Plan	13-Feb-17 A	24-Apr-17 A	13-Feb-17	24-Apr-17	100%	0	\$0	Bernie Riemer																						
P511M206	Review Target Development Plan	25-Apr-17 A	25-Apr-17 A	25-Apr-17	25-Apr-17	100%	0	\$0	Bernie Riemer																						
P511M225	P.5 Management FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Bernie Riemer																						
P511M6	P.5 Management FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Bernie Riemer																						
P511M11	P.5 Management FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Bernie Riemer																						
P511M230	NScD design review support - FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Bernie Riemer																						
P511M11b	P.5 Management FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Bernie Riemer																						
P511M230b	NScD design review support - FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Bernie Riemer																						
P511M11c	P.5 Management FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Bernie Riemer																						
P511M230c	NScD design review support - FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Bernie Riemer																						
P511M186	Preliminary Design Review for FTS Systems	10-Sep-19 A	12-Sep-19 A	10-Sep-19	12-Sep-19	100%	0	\$0	Bernie Riemer																						
P511M16a	P.5 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Bernie Riemer																						
P511M235a	NScD design review support - FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Bernie Riemer																						
P511M16b	P.5 Management FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Bernie Riemer																						
P511M235b	NScD design review support - FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Bernie Riemer																						
P511M21	P.5 Management FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Bernie Riemer																						
P511M240a	NScD design review support - FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Bernie Riemer																						
P511M21b	P.5 Management FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$377,177	Bernie Riemer																						
P511M240b	NScD design review support - FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$17,198	Bernie Riemer																						
P511M260	P.5 Management FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$39,900	Bernie Riemer																						
P511M245	NScD design review support - FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$4,883	Bernie Riemer																						
P511M26	P.5 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$464,514	Bernie Riemer																						
P511M250	NScD design review support - FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$5,076	Bernie Riemer																						
P511M31	P.5 Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$482,650	Bernie Riemer																						
P511M46	Pre-beam integrated gas injection systems testing	28-Aug-23	18-Sep-23	28-Aug-23	18-Sep-23	0%	15	\$85,806	Bernie Riemer																						
P517DOC2	P.05.07 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$7,414	Oscar Martinez																						
P515DOC2	P.05.05 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$7,414	Oscar Martinez																						
P511M255	NScD design review support - FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$5,277	Bernie Riemer																						
P511M36	WBS P.5 Management FY24- Closeout (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$458,133	Bernie Riemer																						
P05.02 Neutronics		03-Oct-16 A	29-Oct-20 A	03-Oct-16	29-Oct-20		0	\$0																							
P05.02.01 Management and System Integration		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																							
P05.02.01.01 Management and System Integration - Neutronics		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																							

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028			
P521M1	WBS Management P.5.2 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Franz Gallmeier																												
P521M100	WBS Management P.5.2 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Franz Gallmeier																												
P521M6	WBS Management P.5.2 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P521M66	Computer Cluster upgrade FY18	31-May-18 A	26-Sep-18 A	31-May-18	26-Sep-18	100%	0	\$0	Franz Gallmeier																												
P521MS001	Neutronics compute cluster upgrade installed and operational		26-Sep-18 A		26-Sep-18	100%	0	\$0	Franz Gallmeier																												
P521M11	WBS Management P.5.2 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Franz Gallmeier																												
P521M11b	WBS Management P.5.2 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Franz Gallmeier																												
P521M11c	WBS Management P.5.2 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Franz Gallmeier																												
P521M16a	WBS Management P.5.2 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Franz Gallmeier																												
P521M16b	WBS Management P.5.2 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Franz Gallmeier																												
<b>P05.02.02 Evaluations at 1.3 GeV (Neutronics)</b>		05-Apr-18 A	14-May-20 A	05-Apr-18	14-May-20		0	\$0																													
<b>P05.02.02.02 Design - Evaluations at 1.3 GeV (Neutronics)</b>		05-Apr-18 A	14-May-20 A	05-Apr-18	14-May-20		0	\$0																													
P522D6	Evaluate detailed energy deposition, and material damage calculations of ORP (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D11	Evaluate detailed energy deposition of CV and target cart port (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D16	Evaluate detailed energy deposition of PBW and proton flight channel to target - Al6061 (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D21	Perform energy deposition and activation analysis for four water loops (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D26	Evaluate energy deposition in the mercury bulk	05-Apr-18 A	31-May-18 A	05-Apr-18	31-May-18	100%	0	\$0	Franz Gallmeier																												
P522D1	Evaluate integral energy deposition of moderator loops (May through Sep)	31-May-18 A	28-Sep-18 A	31-May-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D65	Target Length Optimization (Jul through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D70	Evaluation for nominal beam profile (Jul through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D75	Evaluation for off nominal beam profile (Jul through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D61	Evaluate energy deposition in the target carriage, write report and prepare data sets for further evaluation (Sep)	04-Sep-18 A	28-Sep-18 A	04-Sep-18	28-Sep-18	100%	0	\$0	Franz Gallmeier																												
P522D105	Evaluate integral energy deposition of moderator loops (Oct through Remain)	01-Oct-18 A	15-Oct-18 A	01-Oct-18	15-Oct-18	100%	0	\$0	Franz Gallmeier																												
P522D80	Evaluate detailed energy deposition, and material damage calculations of ORP (Oct through Remain)	01-Oct-18 A	15-Oct-18 A	01-Oct-18	15-Oct-18	100%	0	\$0	Franz Gallmeier																												
P522D85	Evaluate detailed energy deposition of CV and target cart port (Oct through Remain)	01-Oct-18 A	17-Dec-18 A	01-Oct-18	17-Dec-18	100%	0	\$0	Franz Gallmeier																												
P522D90	Evaluate detailed energy deposition of PBW and proton flight channel to target - Al6061 (Oct through Remain)	01-Oct-18 A	30-Oct-18 A	01-Oct-18	30-Oct-18	100%	0	\$0	Franz Gallmeier																												
P522D95	Perform energy deposition and activation analysis for four water loops (Oct through Remain)	01-Oct-18 A	17-Dec-18 A	01-Oct-18	17-Dec-18	100%	0	\$0	Franz Gallmeier																												
P522D125	Evaluate energy deposition in the target carriage, write report and prepare data sets for further evaluation (Oct)	01-Oct-18 A	30-Oct-18 A	01-Oct-18	30-Oct-18	100%	0	\$0	Franz Gallmeier																												
P522D110	Target Length Optimization (Oct through Remain)	01-Oct-18 A	15-Oct-18 A	01-Oct-18	15-Oct-18	100%	0	\$0	Franz Gallmeier																												
P522D120	Evaluation for nominal beam profile (Oct through Remain)	01-Oct-18 A	15-Oct-18 A	01-Oct-18	15-Oct-18	100%	0	\$0	Franz Gallmeier																												
P522D115	Evaluation for off nominal beam profile (Oct through Remain)	01-Oct-18 A	15-Nov-18 A	01-Oct-18	15-Nov-18	100%	0	\$0	Franz Gallmeier																												
P522D31	Evaluate energy deposition in target mercury vessel MV Preliminary	05-Nov-18 A	31-Jan-19 A	05-Nov-18	31-Jan-19	100%	0	\$0	Franz Gallmeier																												
P522MS001	Energy deposition in target mercury vessel evaluation complete		31-Jan-19 A		31-Jan-19	100%	0	\$0	Franz Gallmeier																												

Table with columns for Activity ID, Activity Name, Start, Finish, BL Start, BL Finish, % Complete, Rem Dur, Budgeted Total Cost, CAM, and fiscal years FY2016 through FY2028. It includes hierarchical sub-tasks like P05.02.03 System Design Support and P05.03.01 Management and System Integration.



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029		
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P531M40	WBS Management P.5.3 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Craig Bradley																
P531M35	3620 Workstation	01-Mar-18 A	01-Mar-18 A	01-Mar-18	01-Mar-18	100%	0	\$0	Craig Bradley																
P531M6	WBS Management P.5.3 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Craig Bradley																
P531M11	WBS Management P.5.3 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley																
P531M11b	WBS Management P.5.3 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Craig Bradley																
P531M11c	WBS Management P.5.3 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Craig Bradley																
P531M16a	WBS Management P.5.3 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Craig Bradley																
P531M16b	WBS Management P.5.3 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Craig Bradley																
P531M21a	WBS Management P.5.3 FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Craig Bradley																
P531M21b	WBS Management P.5.3 FY21 (LOE) Continued	02-Nov-20 A	30-Apr-21 A	02-Nov-20	30-Apr-21	100%	0	\$15,495	Craig Bradley																
P531M21c	WBS Management P.5.3 FY21 (LOE) Continued	03-May-21 A	30-Sep-21	03-May-21	30-Sep-21	18.87%	86	\$7,628	Makayla Edwards																
P531M60	WBS Management P.5.3 FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$10,500	Craig Bradley																
P531M50	P.05.03 Final Design Review	22-Sep-21	24-Sep-21	15-Jul-21	19-Jul-21	0%	3	\$19,950	Craig Bradley																
P531M55	P.05.03 Respond to Design Revisions from FDR	27-Sep-21	08-Oct-21	20-Jul-21	02-Aug-21	0%	10	\$20,934	Craig Bradley																
P531M26	WBS Management P.5.3 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$18,706	Craig Bradley																
P531M31	WBS Management P.5.3 FY23 (LOE)	03-Oct-22	19-Sep-23	03-Oct-22	19-Sep-23	0%	237	\$17,669	Craig Bradley																
P53PB1	P.05.03 Extended Outage Pre Beam ARR Documetation Complete	22-Feb-23	28-Feb-23	22-Feb-23	28-Feb-23	0%	5	\$4,977	Craig Bradley																
P53IT2	P.05.03 Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Craig Bradley																
P53DOC2	P.05.03 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$4,977	Craig Bradley																
P05.03.02 Evaluations at 1.3 GeV (Mercury Process Systems)		31-Oct-18 A	24-Apr-19 A	31-Oct-18	24-Apr-19		0	\$0																	
P05.03.02.02 Design - Evaluations at 1.3 GeV (Mercury Process Systems)		31-Oct-18 A	24-Apr-19 A	31-Oct-18	24-Apr-19		0	\$0																	
P532D1	Evaluation of target carriage (thermal)	31-Oct-18 A	31-Mar-19 A	31-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley																
P532D21	Evaluation of target carriage (thermal) Continued	01-Apr-19 A	24-Apr-19 A	01-Apr-19	24-Apr-19	100%	0	\$0	Craig Bradley																
P532MS07	Measurements of target carriage temps at 1GeV		24-Apr-19 A		24-Apr-19	100%	0	\$0	Craig Bradley																
P05.03.03 Hg Pump Tank Overflow		05-Apr-18 A	21-Feb-23	05-Apr-18	21-Feb-23		425	\$606,669																	
P05.03.03.02 Design - Hg Pump Tank Overflow		05-Apr-18 A	21-Sep-21	05-Apr-18	10-May-21		79	\$122,849																	
P533D35	Plan preliminary remote handling for installation of overflow (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Craig Bradley																
P533D1	Preliminary design for overflow (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Craig Bradley																
P533D45	Preliminary seismic analysis and calculations during the preliminary design (Sep)	12-Sep-18 A	28-Sep-18 A	12-Sep-18	28-Sep-18	100%	0	\$0	Craig Bradley																
P533D70	Preliminary design for overflow (Oct through Remain)	01-Oct-18 A	28-Feb-19 A	01-Oct-18	28-Feb-19	100%	0	\$0	Craig Bradley																
P533D75	Plan preliminary remote handling for installation of overflow (Oct through Remain)	01-Oct-18 A	17-Jan-19 A	01-Oct-18	17-Jan-19	100%	0	\$0	Craig Bradley																
P533D80	Preliminary seismic analysis and calculations during the preliminary design (Oct through Remain)	01-Oct-18 A	17-Jan-19 A	01-Oct-18	17-Jan-19	100%	0	\$0	Craig Bradley																
P533MS001	Preliminary remote handling for installation of overflow plan complete		17-Jan-19 A		17-Jan-19	100%	0	\$0	Craig Bradley																

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P533D60	Internal Design Review for Hg Pump Tank Overflow	01-Feb-19 A	07-Feb-19 A	01-Feb-19	07-Feb-19	100%	0	\$0	Craig Bradley															
P533D6a	Detail design 3D modeling for Hg Pump Tank Overflow	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Craig Bradley															
P533D85a	Detail design drawings for Hg Pump Tank Overflow	09-Jan-20 A	31-Mar-20 A	09-Jan-20	31-Mar-20	100%	0	\$0	Craig Bradley															
P533D55a	Final seismic analysis and calculations during the final design	20-Mar-20 A	31-Mar-20 A	20-Mar-20	31-Mar-20	100%	0	\$0	Craig Bradley															
P533D85b	Detail design drawings for Hg Pump Tank Overflow continued	01-Apr-20 A	31-Jul-20 A	01-Apr-20	31-Jul-20	100%	0	\$0	Craig Bradley															
P533D6b	Detail design 3D modeling for Hg Pump Tank Overflow Continued	01-Apr-20 A	31-Jul-20 A	01-Apr-20	31-Jul-20	100%	0	\$0	Craig Bradley															
P533D55b	Final seismic analysis and calculations during the final design continued	01-Apr-20 A	30-Jun-20 A	01-Apr-20	30-Jun-20	100%	0	\$0	Craig Bradley															
P533D21	Plan final remote handling for installation of overflow	17-Aug-21	30-Aug-21	06-Apr-21	19-Apr-21	0%	10	\$8,262	Craig Bradley															
P533D30	Internal Final Design Review for Hg Pump Tank Overflow	31-Aug-21	07-Sep-21	20-Apr-21	26-Apr-21	0%	5	\$6,148	Craig Bradley															
P533D90	Design revisions after Internal Final Design Review	08-Sep-21	21-Sep-21	27-Apr-21	10-May-21	0%	10	\$24,594	Craig Bradley															
<b>P05.03.03.02.01 First Artide Overflow Tank Level Sensor</b>		12-Mar-20 A	11-Jun-21	12-Mar-20	19-Feb-21		9	\$83,844																
P533D50a	Procure overflow tank level sensor in support of design	12-Mar-20 A	31-Mar-20 A	12-Mar-20	31-Mar-20	100%	0	\$0	Craig Bradley															
P533D50b	Procure overflow tank level sensor in support of design continued	01-Apr-20 A	07-Apr-20 A	01-Apr-20	07-Apr-20	100%	0	\$0	Craig Bradley															
P533D95	Fabricate overflow tank level sensor	08-Apr-20 A	15-Dec-20 A	08-Apr-20	17-Nov-20	100%	0	\$0	Craig Bradley															
P533D100a	Design test assembly for overflow tank level sensor	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Craig Bradley															
P533D100b	Design test assembly for overflow tank level sensor Continued	02-Nov-20 A	23-Feb-21 A	02-Nov-20	17-Nov-20	100%	0	\$2,286	Craig Bradley															
P533MS50	Fabrication of overflow tank level sensor Complete		22-Dec-20 A		17-Nov-20	100%	0	\$0	Craig Bradley															
P533D110	Receive overflow tank level sensor	04-Jan-21 A	04-Jan-21 A	18-Nov-20	18-Nov-20	100%	0	\$52,395	Craig Bradley															
P533D105	Procure and fabricate test assembly for overflow tank level sensor	01-Mar-21 A	11-May-21 A	18-Nov-20	14-Jan-21	100%	0	\$10,400	Craig Bradley															
P533D115	Testing of overflow tank level sensor in TTF	19-Apr-21 A	23-Apr-21 A	15-Jan-21	05-Feb-21	100%	0	\$14,633	Craig Bradley															
P533D120	Test Report for overflow tank level sensor	26-Apr-21 A	11-Jun-21	08-Feb-21	19-Feb-21	80%	9	\$4,131	Craig Bradley															
<b>P05.03.03.03 Procure/Fab - Hg Pump Tank Overflow</b>		11-Oct-21	22-Jun-22	03-Aug-21	13-Apr-22		171	\$469,004																
P533P11	Procure overflow	11-Oct-21	29-Oct-21	03-Aug-21	23-Aug-21	0%	15	\$481	Craig Bradley															
P533P050	Procure overflow tank level sensor spare	11-Oct-21	29-Oct-21	03-Aug-21	23-Aug-21	0%	15	\$481	Craig Bradley															
P533P16	Fabricate overflow	01-Nov-21	02-May-22	24-Aug-21	22-Feb-22	0%	120	\$0	Craig Bradley															
P533P055	Fabricate overflow tank level sensor spare	01-Nov-21	21-Jun-22	24-Aug-21	12-Apr-22	0%	155	\$0	Craig Bradley															
P533MS45	Fabrication of overflow Complete		02-May-22		22-Feb-22	0%	0	\$0	Craig Bradley															
P533P45	Receive overflow	03-May-22	03-May-22	23-Feb-22	23-Feb-22	0%	1	\$394,583	Craig Bradley															
P533P40	Overflow remote handling mockup testing	04-May-22	08-Jun-22	24-Feb-22	30-Mar-22	0%	25	\$20,540	Craig Bradley															
P533MS55	Fabrication of overflow tank level sensor spare Complete		21-Jun-22		12-Apr-22	0%	0	\$0	Craig Bradley															
P533P060	Receive overflow tank level sensor spare	22-Jun-22	22-Jun-22	13-Apr-22	13-Apr-22	0%	1	\$52,919	Craig Bradley															
<b>P05.03.03.04 Installation - Hg Pump Tank Overflow</b>		25-Jan-23	21-Feb-23	25-Jan-23	21-Feb-23		20	\$14,816																
P533I65	Installation Review for overflow	25-Jan-23	31-Jan-23	25-Jan-23	31-Jan-23	0%	5	\$6,913	Craig Bradley															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Breakdown																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028		29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P533I26	Install Hg Pump Tank Overflow	01-Feb-23	21-Feb-23	01-Feb-23	21-Feb-23	0%	15	\$7,903	Craig Bradley																												
P05.03.04 Hg Return GLS		03-Dec-18 A	30-Aug-21	03-Dec-18	14-Jul-21		64	\$199,780																													
P05.03.04.02 Design - Hg Return GLS		03-Dec-18 A	30-Aug-21	03-Dec-18	14-Jul-21		64	\$199,780																													
P534D40	Plan preliminary remote handling for installation of GLS	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	\$0	Craig Bradley																												
P534D1	Preliminary design for GLS	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	\$0	Craig Bradley																												
P534D135a	Design remote installation mockup for GLS	31-Mar-19 A	01-Apr-20 A	31-Mar-19	01-Apr-20	100%	0	\$0	Craig Bradley																												
P534D40b	Plan preliminary remote handling for installation of GLS Continued	01-Apr-19 A	23-Apr-19 A	01-Apr-19	23-Apr-19	100%	0	\$0	Craig Bradley																												
P534D1b	Preliminary design for GLS Continued	01-Apr-19 A	23-Apr-19 A	01-Apr-19	23-Apr-19	100%	0	\$0	Craig Bradley																												
P534MS001	Complete Gaseous Liquid Separator (GLS) - Preliminary Design Meeting		23-Apr-19 A		23-Apr-19	100%	0	\$0	Craig Bradley																												
P534D50	Internal Design Review for GLS	24-May-19 A	31-May-19 A	24-May-19	31-May-19	100%	0	\$0	Craig Bradley																												
P534D6a	Detail Design 3d modeling for GLS	31-Jan-20 A	31-Mar-20 A	31-Jan-20	31-Mar-20	100%	0	\$0	Craig Bradley																												
P534D35	Review original piping stress analysis	17-Feb-20 A	24-Feb-20 A	17-Feb-20	24-Feb-20	100%	0	\$0	Craig Bradley																												
P534D70	Stress analysis planning meeting	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Craig Bradley																												
P534D75a	Stress analysis calculations	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Craig Bradley																												
P534D45	Review GLS design with Remote Handling group	01-Apr-20 A	14-Apr-20 A	01-Apr-20	14-Apr-20	100%	0	\$0	Craig Bradley																												
P534D135b	Design remote installation mockup for GLS continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Craig Bradley																												
P534D75b	Stress analysis calculations continued	01-Apr-20 A	31-Jul-20 A	01-Apr-20	31-Jul-20	100%	0	\$0	Craig Bradley																												
P534D6b	Detail Design 3d modeling for GLS continued	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Craig Bradley																												
P534D95a	Remote handling 3D modelling for GLS	14-Apr-20 A	30-Oct-20 A	14-Apr-20	30-Oct-20	100%	0	\$0	Craig Bradley																												
P534D170a	Procure hardware for remote installation mockup for GLS	08-May-20 A	30-Oct-20 A	08-May-20	30-Oct-20	100%	0	\$0	Craig Bradley																												
P534D80	Stress analysis report	10-Aug-20 A	28-Sep-20 A	10-Aug-20	28-Sep-20	100%	0	\$0	Craig Bradley																												
P534D6c	Detail Design 3d modeling for GLS continued	02-Nov-20 A	23-Apr-21 A	02-Nov-20	02-Dec-20	100%	0	\$10,637	Craig Bradley																												
P534D95b	Remote handling 3D modelling for GLS Continued	02-Nov-20 A	09-Apr-21 A	02-Nov-20	02-Dec-20	100%	0	\$3,088	Craig Bradley																												
P534D170b	Procure hardware for OFT Mockup	02-Nov-20 A	05-Apr-21 A	02-Nov-20	16-Nov-20	100%	0	\$525	Craig Bradley																												
P534D85	Stress analysis review meeting	01-Feb-21 A	05-Feb-21 A	11-Jan-21	15-Jan-21	100%	0	\$3,324	Craig Bradley																												
P534D90	Final stress analysis and report	01-Mar-21 A	23-Apr-21 A	19-Jan-21	15-Feb-21	100%	0	\$19,945	Craig Bradley																												
P534D60	Detail Design drawings for GLS	24-Mar-21 A	23-Apr-21 A	20-Apr-21	14-Jul-21	100%	0	\$60,845	Craig Bradley																												
P534D145	Fabricate remote installation mockup for OFT	05-Apr-21 A	30-Jul-21	17-Nov-20	18-Mar-21	50%	43	\$0	Craig Bradley																												
P534D100	Follow-up remote handling design review with Remote Handling group for GLS	09-Apr-21 A	15-Apr-21 A	03-Dec-20	09-Dec-20	100%	0	\$1,033	Craig Bradley																												
P534D105	Design revisions after follow-up review remote handling of GLS	15-Apr-21 A	21-Apr-21 A	10-Dec-20	16-Dec-20	100%	0	\$1,033	Craig Bradley																												
P534D180	Fabrication of remote installation mockup for OFT complete		30-Jul-21		18-Mar-21	0%	0	\$0	Craig Bradley																												
P534D185	Receive remote installation mockup for OFT	02-Aug-21	02-Aug-21	19-Mar-21	19-Mar-21	0%	1	\$83,750	Craig Bradley																												
P534D155	Mockup Testing for OFT	03-Aug-21	30-Aug-21	22-Mar-21	19-Apr-21	0%	20	\$11,270	Craig Bradley																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P05.03.04.02.01	First Artide Design Support for GLS Porous Filter	01-Nov-19 A	14-Apr-21 A	01-Nov-19	30-Nov-20		0	\$4,329															
P534D110	Procure GLS Porous Filters	01-Nov-19 A	10-Dec-19 A	01-Nov-19	10-Dec-19	100%	0	\$0	Craig Bradley														
P534D115	Fabricate GLS Porous Filters	10-Dec-19 A	23-Mar-20 A	10-Dec-19	23-Mar-20	100%	0	\$0	Craig Bradley														
P534MS008	Fabrication of GLS Porous Filters complete		23-Mar-20 A		23-Mar-20	100%	0	\$0	Craig Bradley														
P534D120	Receive GLS Porous Filters	24-Mar-20 A	24-Mar-20 A	24-Mar-20	24-Mar-20	100%	0	\$0	Craig Bradley														
P534D125a	Install and Test GLS Porous Filters	31-Mar-20 A	31-Mar-20 A	31-Mar-20	31-Mar-20	100%	0	\$0	Craig Bradley														
P534D125b	Install and Test GLS Porous Filters continued	17-Apr-20 A	30-Oct-20 A	17-Apr-20	30-Oct-20	100%	0	\$0	Craig Bradley														
P534D125c	Install and Test GLS Porous Filters continued	02-Nov-20 A	14-Apr-21 A	02-Nov-20	30-Nov-20	100%	0	\$4,329	Craig Bradley														
P05.03.04.02.02	First Artide Design Support for Hg Return GLS and Hg Pump Tank Overflow	02-Dec-19 A	16-Oct-20 A	02-Dec-19	16-Oct-20		0	\$0															
P534D130	Procure Grayloc Connectors	02-Dec-19 A	24-Jan-20 A	02-Dec-19	24-Jan-20	100%	0	\$0	Craig Bradley														
P534D140	Fabricate Grayloc Connectors	24-Jan-20 A	15-Oct-20 A	24-Jan-20	15-Oct-20	100%	0	\$0	Craig Bradley														
P534MS009	Fabrication of Grayloc Connectors complete		15-Oct-20 A		15-Oct-20	100%	0	\$0	Craig Bradley														
P534D160	Receive Grayloc Connectors	16-Oct-20 A	16-Oct-20 A	16-Oct-20	16-Oct-20	100%	0	\$0	Craig Bradley														
P05.03.05	In-Cell Target Gas Supply Hardware	30-Sep-17 A	21-Feb-23	30-Sep-17	21-Feb-23		425	\$107,219															
P05.03.05.02	Design - In-Cell Target Gas Supply Hardware	30-Sep-17 A	14-Jun-21	30-Sep-17	27-May-21		10	\$58,133															
P535MS01	GI3 Gas supply pathway allows for two gas supplies		30-Sep-17 A		30-Sep-17	100%	0	\$0	Craig Bradley														
P535D1	Preliminary design for in-cell gas supply (Aug through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Craig Bradley														
P535D35	Plan preliminary remote handling for installation of in-cell gas supply hardware	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley														
P535D55	Preliminary design for in-cell gas supply (Oct through remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley														
P535D35b	Plan preliminary remote handling for installation of in-cell gas supply hardware Continued	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Craig Bradley														
P535D55b	Preliminary design for in-cell gas supply Continued	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Craig Bradley														
P535D45	Internal Design Review for in-cell gas supply	19-Jun-19 A	28-Jun-19 A	19-Jun-19	28-Jun-19	100%	0	\$0	Craig Bradley														
P535D6	Detail design 3D modeling for in-cell gas supply hardware	16-Dec-20 A	16-Apr-21 A	02-Nov-20	10-Feb-21	100%	0	\$22,163	Craig Bradley														
P535D70	Remote handling 3D modelling of in-cell gas supply hardware	16-Dec-20 A	16-Apr-21 A	09-Nov-20	17-Feb-21	100%	0	\$1,979	Craig Bradley														
P535D40	Review design of in-cell gas supply hardware with Remote Handling group	04-Jan-21 A	26-Jan-21 A	02-Nov-20	06-Nov-20	100%	0	\$164	Craig Bradley														
P535D60	Detail design drawings for in-cell gas supply hardware	25-Mar-21 A	30-Apr-21 A	11-Feb-21	06-May-21	100%	0	\$22,159	Craig Bradley														
P535D75	Follow-up remote handling design of in-cell gas supply hardware review with Remote Handling group	29-Mar-21 A	16-Apr-21 A	18-Feb-21	24-Feb-21	100%	0	\$165	Craig Bradley														
P535D80	Design revisions of in-cell gas supply hardware after follow-up review	16-Apr-21 A	16-Apr-21 A	25-Feb-21	03-Mar-21	100%	0	\$165	Craig Bradley														
P535D30	Internal Final Design Review for in-cell gas supply	26-May-21 A	26-May-21 A	07-May-21	13-May-21	100%	0	\$8,197	Craig Bradley														
P535D65	Design revisions after internal Final Design Review for in-cell gas supply hardware	01-Jun-21	14-Jun-21	14-May-21	27-May-21	0%	10	\$3,140	Craig Bradley														
P05.03.05.03	Procure/Fab - In-Cell Target Gas Supply Hardware	11-Oct-21	01-Jun-22	03-Aug-21	23-Mar-22		156	\$34,698															
P535P11	Procure in-cell gas supply hardware	11-Oct-21*	29-Oct-21	03-Aug-21	23-Aug-21	0%	15	\$481	Craig Bradley														
P535P16	Fabricate gas supply hardware	01-Nov-21	02-May-22	24-Aug-21	22-Feb-22	0%	120	\$0	Craig Bradley														





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P542D1	Prepare preliminary design for Ortho/Para converters (Aug through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Matt Williamson															
P542D020	Size Ortho/Para Converters (Sep)	10-Sep-18 A	28-Sep-18 A	10-Sep-18	28-Sep-18	100%	0	\$0	Matt Williamson															
P542D65	Prepare preliminary design for Ortho/Para converters (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Williamson															
P542D75	Size Ortho/Para Converters (Oct through Remain)	01-Oct-18 A	19-Mar-19 A	01-Oct-18	19-Mar-19	100%	0	\$0	Matt Williamson															
P542D70	Update P&ID (Oct through Remain)	01-Oct-18 A	04-Jan-19 A	01-Oct-18	04-Jan-19	100%	0	\$0	Matt Williamson															
P542D65b	Prepare preliminary design for Ortho/Para converters Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson															
P542D60	Prepare Instrumentation and Controls Preliminary Design	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson															
P542D30	Perform preliminary safety hazard analysis	03-Sep-19 A	26-Sep-19 A	03-Sep-19	26-Sep-19	100%	0	\$0	Matt Williamson															
P542D65c	Prepare preliminary design for Ortho/Para converters (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson															
P542D60b	Prepare Instrumentation and Controls Preliminary Design (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson															
P542MS001	Preliminary design for Ortho/Para converters Complete		05-Dec-19 A		05-Dec-19	100%	0	\$0	Matt Williamson															
P542D40a	Finalize vacuum vessel design	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson															
P542D45a	Perform final safety hazard analysis	17-Feb-20 A	31-Mar-20 A	17-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson															
P542D85a	Finalize H2 loop piping design	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson															
P542D90a	Finalize design of diagnostic viewports and penetrations	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson															
P542D40b	Finalize vacuum vessel design continued	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	Matt Williamson															
P542D45b	Perform final safety hazard analysis continued	01-Apr-20 A	17-Aug-20 A	01-Apr-20	17-Aug-20	100%	0	\$0	Matt Williamson															
P542D85b	Finalize H2 loop piping design continued	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	Matt Williamson															
P542D90b	Finalize design of diagnostic viewports and penetrations continued	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	Matt Williamson															
P542D35	Final Design Review for Ortho/Para converters	18-Sep-20 A	18-Sep-20 A	18-Sep-20	18-Sep-20	100%	0	\$0	Matt Williamson															
<b>P05.04.02.03 Procure/Fab - Ortho-Para Hydrogen Converters</b>		07-Oct-20 A	11-Jul-22	07-Oct-20	08-Apr-22		275	\$277,104																
<b>P05.04.02.03.01 Ortho-Para Converter Vessel Assembly Procurement</b>		07-Oct-20 A	11-Jul-22	07-Oct-20	08-Apr-22		275	\$277,104																
P542P226a	Prepare SOW, final drawing package, and Tech Spec for Ortho/Para Converter vessel assembly	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson															
P542P255a	Prepare Assembly and Leak Testing Procedures	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson															
P542P226b	Prepare SOW, final drawing package, and Tech Spec for Ortho/Para Converter vessel assembly Continued	02-Nov-20 A	02-Mar-21 A	02-Nov-20	10-Dec-20	100%	0	\$11,691	Matt Williamson															
P542P255b	Prepare Assembly and Leak Testing Procedures Continued	02-Nov-20 A	02-Mar-21 A	02-Nov-20	10-Dec-20	100%	0	\$7,682	Matt Williamson															
P542P236	Procurement Review and Bid for Ortho/Para Converter vessel assembly	01-Mar-21 A	05-Mar-21 A	18-Dec-20	29-Jan-21	100%	0	\$1,477	Matt Williamson															
P542P231	Procurement Readiness Review (PRR) for Ortho/Para Converter vessel assembly	03-Mar-21 A	11-Mar-21 A	11-Dec-20	17-Dec-20	100%	0	\$369	Matt Williamson															
P542MS220	Issue RFP for Ortho/Para Converter vessel assembly		05-Mar-21 A		29-Jan-21	100%	0	\$0	Matt Williamson															
P542MS215	Technical Package to Procurement for Ortho/Para Converter vessel assembly		11-Mar-21 A		17-Dec-20	100%	0	\$0	Matt Williamson															
P542P241	Solicitation Period for Ortho/Para Converter vessel assembly	16-Apr-21 A	18-Jun-21	01-Feb-21	19-Mar-21	40%	14	\$2,216	Matt Williamson															
P542MS225	Solicitation Complete for Ortho/Para Converter vessel assembly		18-Jun-21		19-Mar-21	0%	0	\$0	Matt Williamson															
P542P16	Review and award contract for Ortho/Para Converter vessel assembly	21-Jun-21	19-Jul-21	22-Mar-21	19-Apr-21	0%	20	\$1,477	Matt Williamson															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																												
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029															
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
P542MS230	Award Contract for Ortho/Para Converter vessel assembly		19-Jul-21		19-Apr-21	0%	0	\$0	Matt Williamson																													
P542P21	Fabricate Ortho/Para converter vessel assembly	20-Jul-21	08-Jul-22	20-Apr-21	07-Apr-22	0%	240	\$0	Matt Williamson																													
P542MS235	Fabrication Complete for Ortho/Para Converter vessel assembly		08-Jul-22		07-Apr-22	0%	0	\$0	Matt Williamson																													
P542P251	Receive Ortho/Para converter vessel assembly	11-Jul-22	11-Jul-22	08-Apr-22	08-Apr-22	0%	1	\$252,191	Matt Williamson																													
<b>P05.04.02.04 Installation - Ortho-Para Hydrogen Converters</b>		01-Feb-23	26-Apr-23	01-Feb-23	26-Apr-23		60	\$154,474																														
P542I36	Room prep and Mechanical Installation of Ortho/Para Converters	01-Feb-23	21-Feb-23	01-Feb-23	21-Feb-23	0%	15	\$76,760	Matt Williamson																													
P542I41	Vacuum Integrity Testing of Hydrogen Loops	22-Feb-23	14-Mar-23	22-Feb-23	14-Mar-23	0%	15	\$38,048	Matt Williamson																													
P5424IMS001	P.05.04.02.04_Installation Complete		14-Mar-23		14-Mar-23	0%	0	\$0	Matt Williamson																													
P5424IMS006	P.05.04.02.04_Operational procedures updated for Ortho-Para Hydrogen Converters		14-Mar-23		14-Mar-23	0%	0	\$0	Matt Williamson																													
P542I31	Integrated Testing of ortho/para converters (without beam)	29-Mar-23	26-Apr-23	29-Mar-23	26-Apr-23	0%	20	\$39,666	Matt Williamson																													
<b>P05.04.03 Ortho-Para Hydrogen Converter Diagnostics</b>		07-May-18 A	28-Mar-23	07-May-18	28-Mar-23		450	\$185,837																														
<b>P05.04.03.02 Design - Ortho-Para Hydrogen Converter Diagnostics</b>		07-May-18 A	19-Jul-21	07-May-18	16-Apr-21		34	\$14,451																														
P543D25	Identify and prep workspace for first article development (May through Sep)	07-May-18 A	28-Sep-18 A	07-May-18	28-Sep-18	100%	0	\$0	Matt Williamson																													
P543D60	Identify and prep workspace for first article development (Oct through Remain)	01-Oct-18 A	21-Nov-18 A	01-Oct-18	21-Nov-18	100%	0	\$0	Matt Williamson																													
P543D15	Procure First Article Ortho-Para Hydrogen Diagnostic components	01-Oct-18 A	21-Nov-18 A	01-Oct-18	21-Nov-18	100%	0	\$0	Matt Williamson																													
P543D50	Preliminary Design Complete		21-Nov-18 A		21-Nov-18	100%	0	\$0	Matt Williamson																													
P543MS001	Space ready for use with JHA/ RSS		21-Nov-18 A		21-Nov-18	100%	0	\$0	Matt Williamson																													
P543MS002	Order First Article Ortho-Para Hydrogen Diagnostic components		21-Nov-18 A		21-Nov-18	100%	0	\$0	Matt Williamson																													
P543D40	Fabricate First Article Ortho-Para Hydrogen Diagnostic components	03-Dec-18 A	06-Feb-19 A	03-Dec-18	06-Feb-19	100%	0	\$0	Matt Williamson																													
P543D20	Receive First Article Ortho-Para Hydrogen Diagnostic components	07-Feb-19 A	07-Feb-19 A	07-Feb-19	07-Feb-19	100%	0	\$0	Matt Williamson																													
P543D30	Assemble first article ortho-para hydrogen diagnostic	08-Feb-19 A	15-Mar-19 A	08-Feb-19	15-Mar-19	100%	0	\$0	Matt Williamson																													
P543D35	Test first article ortho-para hydrogen diagnostic	18-Mar-19 A	31-Mar-19 A	18-Mar-19	31-Mar-19	100%	0	\$0	Matt Williamson																													
P543D35b	Test first article ortho-para hydrogen diagnostic Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson																													
P543D1a	Develop specifications for Ortho/Para converter diagnostics	27-Sep-19 A	31-Mar-20 A	27-Sep-19	31-Mar-20	100%	0	\$0	Matt Williamson																													
P543D35c	Test first article ortho-para hydrogen diagnostic	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson																													
P543D65a	Diagnostic window test article design and fabrication	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson																													
P543D35d	Test first article ortho-para hydrogen diagnostic continued	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Matt Williamson																													
P543D65b	Diagnostic window test article design and fabrication continued	01-Apr-20 A	15-May-20 A	01-Apr-20	15-May-20	100%	0	\$0	Matt Williamson																													
P543D1b	Develop specifications for Ortho/Para converter diagnostics continued	01-May-20 A	23-Jun-20 A	01-May-20	23-Jun-20	100%	0	\$0	Matt Williamson																													
P543D75	Diagnostic window life-cycle testing	18-May-20 A	17-Sep-20 A	18-May-20	17-Sep-20	100%	0	\$0	Matt Williamson																													
P543D55	Final Design Review for Ortho-Para Hydrogen Converter Diagnostics		17-Sep-20 A		17-Sep-20	100%	0	\$0	Matt Williamson																													
P543D65	Raman window configuration testing	03-May-21 A	19-Jul-21	02-Nov-20	01-Feb-21	50%	34	\$7,226	Matt Williamson																													
P543D80	Mk. 2 sapphire probe testing	12-May-21 A	17-Jun-21	02-Feb-21	16-Apr-21	30%	13	\$7,226	Matt Williamson																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P05.04.03.03 Procure/Fab - Ortho-Para Hydrogen Converter Diagnostics		07-Oct-20 A	09-Aug-22	07-Oct-20	08-Apr-22		296	\$166,409																
P543P246a	Prepare SOW and Tech Spec for Ortho/Para Converter diagnostics	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson															
P543P246b	Prepare SOW and Tech Spec for Ortho/Para Converter diagnostics Continued	02-Nov-20 A	02-Mar-21 A	02-Nov-20	10-Dec-20	100%	0	\$10,570	Matt Williamson															
P543P251	Procurement Readiness Review (PRR) for Ortho/Para Converter diagnostics	03-Mar-21 A	11-Mar-21 A	11-Dec-20	17-Dec-20	100%	0	\$369	Matt Williamson															
P543MS245	Technical Package to Procurement for Ortho/Para Converter diagnostics		11-Mar-21 A		17-Dec-20	100%	0	\$0	Matt Williamson															
P543P256	Procurement Review and Bid for Ortho/Para Converter diagnostics	03-May-21 A	07-May-21 A	18-Dec-20	29-Jan-21	100%	0	\$1,477	Matt Williamson															
P543P261	Solicitation Period for Ortho/Para diagnostics	01-Jun-21	20-Jul-21	01-Feb-21	19-Mar-21	0%	35	\$2,216	Matt Williamson															
P543MS250	Issue RFP for Ortho/Para Converter diagnostics		01-Jun-21		29-Jan-21	0%	0	\$0	Matt Williamson															
P543MS255	Solicitation Complete for Ortho/Para Converter diagnostics		20-Jul-21		19-Mar-21	0%	0	\$0	Matt Williamson															
P543P6	Review and award contract for Ortho/Para diagnostics	21-Jul-21	17-Aug-21	22-Mar-21	19-Apr-21	0%	20	\$1,477	Matt Williamson															
P543MS260	Award Contract for Ortho/Para Converter diagnostics		17-Aug-21		19-Apr-21	0%	0	\$0	Matt Williamson															
P543P11	Fabricate Ortho/Para diagnostics	18-Aug-21	08-Aug-22	20-Apr-21	07-Apr-22	0%	240	\$0	Matt Williamson															
P543MS270	Fabrication Complete for Ortho/Para Converter diagnostics		08-Aug-22		07-Apr-22	0%	0	\$0	Matt Williamson															
P543P266	Receive Ortho/Para diagnostics	09-Aug-22	09-Aug-22	08-Apr-22	08-Apr-22	0%	1	\$150,300	Matt Williamson															
P05.04.03.04 Installation - Ortho-Para Hydrogen Converter Diagnostics		15-Mar-23	28-Mar-23	15-Mar-23	28-Mar-23		10	\$4,977																
P543I16	Install Ortho/Para Converter diagnostics	15-Mar-23	28-Mar-23	15-Mar-23	28-Mar-23	0%	10	\$4,977	Matt Williamson															
P05.04.04 Hydrogen Refill System Expansion and Relocation		07-May-18 A	19-Sep-22	07-May-18	19-Sep-22		324	\$226,284																
P05.04.04.02 Design - Hydrogen Refill System Expansion and Relocation		07-May-18 A	20-Nov-20 A	07-May-18	20-Nov-20		0	\$952																
P544D15	Prepare Instrumentation and Controls Preliminary Design (May through Sep)	07-May-18 A	28-Sep-18 A	07-May-18	28-Sep-18	100%	0	\$0	Matt Williamson															
P544D5	Prepare Mechanical Preliminary Design (May through Sep)	07-May-18 A	28-Sep-18 A	07-May-18	28-Sep-18	100%	0	\$0	Matt Williamson															
P544D35	Prepare Mechanical Preliminary Design (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Williamson															
P544D40	Prepare Instrumentation and Controls Preliminary Design (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Williamson															
P544D35b	Prepare Mechanical Preliminary Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson															
P544D40b	Prepare Instrumentation and Controls Preliminary Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson															
P544D35c	Prepare Mechanical Preliminary Design (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson															
P544D40c	Prepare Instrumentation and Controls Preliminary Design (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson															
P544MS001	Mechanical Preliminary Design Complete		05-Dec-19 A		05-Dec-19	100%	0	\$0	Matt Williamson															
P544D10a	Finalize H2 inventory housing design	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson															
P544D45a	Finalize gas management panel design	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson															
P544D60a	Finalize I&C schematic design, PCD P&ID	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson															
P544D70	Finalize HMI design	01-Apr-20 A	10-Aug-20 A	01-Apr-20	10-Aug-20	100%	0	\$0	Matt Williamson															
P544D50	Finalize piping design	01-Apr-20 A	11-Aug-20 A	01-Apr-20	11-Aug-20	100%	0	\$0	Matt Williamson															
P544D10b	Finalize H2 inventory housing design continued	01-Apr-20 A	10-Aug-20 A	01-Apr-20	10-Aug-20	100%	0	\$0	Matt Williamson															



May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1									13-Aug-21 10:10													
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P544D45b	Finalize gas management panel design continued	01-Apr-20 A	10-Aug-20 A	01-Apr-20	10-Aug-20	100%	0	\$0	Matt Williamson															
P544D60b	Finalize I&C schematic design, PCD P&ID	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Matt Williamson															
P544D30	Final Design Review for Hydrogen Refill System Expansion and Relocation	17-Sep-20 A	17-Sep-20 A	17-Sep-20	17-Sep-20	100%	0	\$0	Matt Williamson															
P544D60c	Finalize I&C schematic design, PCD P&ID Continued	02-Nov-20 A	20-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$952	Matt Williamson															
<b>P05.04.04.03 Procure/Fab - Hydrogen Refill System Expansion and Relocation</b>		07-Oct-20 A	18-Oct-21	07-Oct-20	16-Mar-21		98	\$100,476																
P544P005a	Procure HRS gas management panel and inventory housing	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson															
P544P005b	Procure HRS gas management panel and inventory housing Continued	01-Dec-20 A	25-Jan-21 A	02-Nov-20	25-Nov-20	100%	0	\$550	Matt Williamson															
P544P020	Fabricate HRS gas management panel and inventory housing	03-May-21 A	15-Oct-21	30-Nov-20	15-Mar-21	5%	97	\$0	Matt Williamson															
P544MS005	Fabrication of HRS gas management panel and inventory housing complete		15-Oct-21		15-Mar-21	0%	0	\$0	Matt Williamson															
P544P20	Receive HRS gas management panel and inventory housing	18-Oct-21	18-Oct-21	16-Mar-21	16-Mar-21	0%	1	\$99,925	Matt Williamson															
<b>P05.04.04.04 Installation - Hydrogen Refill System Expansion and Relocation</b>		08-Aug-22	19-Sep-22	08-Aug-22	19-Sep-22		30	\$124,857																
P544I005	Mechanical Installation and Integrated Testing of Redesigned Hydrogen Refill Station	08-Aug-22	19-Sep-22	08-Aug-22	19-Sep-22	0%	30	\$124,857	Matt Williamson															
<b>P05.05 Vessel and Shielding Systems</b>		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																
<b>P05.05.01 Management and System Integration - Vessel and Shielding Systems</b>		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																
<b>P05.05.01.01 Management and System Integration - Vessel and Shielding Systems</b>		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																
P551M1	WBS Management P.5.5 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Oscar Martinez															
P551M10	WBS Management P.5.5 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Oscar Martinez															
P551M6	WBS Management P.5.5 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P551M20	WBS Management P.5.5 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Oscar Martinez															
P551M20b	WBS Management P.5.5 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Oscar Martinez															
P551M20c	WBS Management P.5.5 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Oscar Martinez															
P551M25a	WBS Management P.5.5 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez															
P551M25b	WBS Management P.5.5 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Oscar Martinez															
<b>P05.05.02 Evaluations at 1.3 GeV (Vessel and Shielding Systems)</b>		05-Apr-18 A	30-Sep-20 A	05-Apr-18	30-Sep-20		0	\$0																
<b>P05.05.02.02 Design - Evaluations at 1.3 GeV (Vessel and Shielding Systems)</b>		05-Apr-18 A	30-Sep-20 A	05-Apr-18	30-Sep-20		0	\$0																
P552D11	Review operational data	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D25	Evaluation of outer reflector plug - Fluid Analysis @ 2MW Energy Deposition	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D35	Evaluation of outer reflector plug - Steady State Thermal Analysis	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D40	Evaluation of outer reflector plug - Thermal Structural (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D65	Evaluation of core vessel target port - Steady State Thermal Analysis (Sep)	18-Sep-18 A	28-Sep-18 A	18-Sep-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552MS001	Setpoint Changes for ORP		01-Oct-18 A		01-Oct-18	100%	0	\$0	Oscar Martinez															
P552D95	Evaluation of outer reflector plug - Fluid Analysis DAC write up and review	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	Oscar Martinez															
P552D85	Evaluation of outer reflector plug - Thermal Structural (Oct through Remain)	01-Oct-18 A	01-Oct-18 A	01-Oct-18	01-Oct-18	100%	0	\$0	Oscar Martinez															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Breakdown																																
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028																				
											F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
P552D90	Evaluation of core vessel target port - Steady State Thermal Analysis (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Oscar Martinez																																	
P552D45	Evaluation of outer reflector plug - Radiation Damage	02-Oct-18 A	16-Oct-18 A	02-Oct-18	16-Oct-18	100%	0	\$0	Oscar Martinez																																	
P552D55	Evaluation of core vessel target port - Fluid Analysis @ 2MW Energy Deposition	09-Oct-18 A	05-Mar-19 A	09-Oct-18	05-Mar-19	100%	0	\$0	Oscar Martinez																																	
P552D70	Evaluation of core vessel target port - Thermal Structural	16-Oct-18 A	29-Mar-19 A	16-Oct-18	29-Mar-19	100%	0	\$0	Oscar Martinez																																	
P552D21	Prepare document justifying increase in lifetime radiation damage dose to outer reflector plug; approve and issue.	16-Oct-18 A	20-Mar-19 A	16-Oct-18	20-Mar-19	100%	0	\$0	Oscar Martinez																																	
P552D50	Evaluation of outer reflector plug - Thermal, Structural DAC write up and review	17-Oct-18 A	12-Nov-18 A	17-Oct-18	12-Nov-18	100%	0	\$0	Oscar Martinez																																	
P552MS004	Evaluation of outer reflector plug - Thermal, Structural DAC write up and review complete		12-Nov-18 A		12-Nov-18	100%	0	\$0	Oscar Martinez																																	
P552D60	Evaluation of core vessel target port - Fluid Analysis DAC write up and review	07-Jan-19 A	28-Mar-19 A	07-Jan-19	28-Mar-19	100%	0	\$0	Oscar Martinez																																	
P552D80	Evaluation of core vessel target port - Thermal, Structural DAC write up and review	09-Jan-19 A	31-Mar-19 A	09-Jan-19	31-Mar-19	100%	0	\$0	Oscar Martinez																																	
P552MS003	Document justifying increase in lifetime radiation damage dose to outer reflector plug approved and issued		20-Mar-19 A		20-Mar-19	100%	0	\$0	Oscar Martinez																																	
P552D70b	Evaluation of core vessel target port - Thermal Structural Continued	01-Apr-19 A	20-Apr-19 A	01-Apr-19	20-Apr-19	100%	0	\$0	Oscar Martinez																																	
P552D90b	Evaluation of core vessel target port - Steady State Thermal Analysis Continued	01-Apr-19 A	20-Apr-19 A	01-Apr-19	20-Apr-19	100%	0	\$0	Oscar Martinez																																	
P552D80b	Evaluation of core vessel target port - Thermal, Structural DAC write up and review Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Oscar Martinez																																	
P552D75	Evaluation of core vessel target port - Radiation Damage	17-Apr-19 A	18-Apr-19 A	17-Apr-19	18-Apr-19	100%	0	\$0	Oscar Martinez																																	
P552MS002	Setpoint Changes for Core Vessel		20-Apr-19 A		20-Apr-19	100%	0	\$0	Oscar Martinez																																	
P552D10	Respond to recommendations from 3b review	12-Aug-19 A	30-Aug-19 A	12-Aug-19	30-Aug-19	100%	0	\$0	Oscar Martinez																																	
P552D80c	Evaluation of core vessel target port - Thermal, Structural DAC write up and review (Sept 19 only)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez																																	
P552D10b	Respond to recommendations from 3b review Continued	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez																																	
P552D100a	Finalize analysis	30-Oct-19 A	31-Mar-20 A	30-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez																																	
P552D110a	Write DACs	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Oscar Martinez																																	
P552D125a	Procure ANSYS Mech Pro License	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Oscar Martinez																																	
P552D80d	Evaluation of core vessel target port - Thermal, Structural DAC write up and review (Sept 19 only) continued	01-Apr-20 A	21-May-20 A	01-Apr-20	21-May-20	100%	0	\$0	Oscar Martinez																																	
P552D10c	Respond to recommendations from 3b review Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Oscar Martinez																																	
P552D100b	Finalize analysis continued	01-Apr-20 A	21-May-20 A	01-Apr-20	21-May-20	100%	0	\$0	Oscar Martinez																																	
P552D110b	Write DACs continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Oscar Martinez																																	
P552D120	Update Reports	31-Jul-20 A	30-Sep-20 A	31-Jul-20	30-Sep-20	100%	0	\$0	Oscar Martinez																																	
P552D125b	Procure ANSYS Mech Pro License continued	01-Sep-20 A	17-Sep-20 A	01-Sep-20	17-Sep-20	100%	0	\$0	Oscar Martinez																																	
P552D130	Receive ANSYS Mech Pro License	18-Sep-20 A	18-Sep-20 A	18-Sep-20	18-Sep-20	100%	0	\$0	Oscar Martinez																																	
<b>P.05.06 Target Utility Systems</b>		03-Oct-16 A	25-Sep-23 A	03-Oct-16	25-Sep-23		574	\$3,093,788																																		
<b>P.05.06.01 Management and System Integration</b>		03-Oct-16 A	25-Sep-23 A	03-Oct-16	25-Sep-23		574	\$91,450																																		
<b>P.05.06.01.01 Management and System Integration - Target Utility Systems</b>		03-Oct-16 A	25-Sep-23 A	03-Oct-16	25-Sep-23		574	\$91,450																																		
P561M1	WBS Management P.5.6 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Erica Ahlschwede																																	
P561M30	WBS Management P.5.6 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Erica Ahlschwede																																	

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29					
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P561M6	WBS Management P.5.6 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Erica Ahlswede																			
P561M11	WBS Management P.5.6 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Erica Ahlswede																			
P561M11b	WBS Management P.5.6 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P561M11c	WBS Management P.5.6 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Erica Ahlswede																			
P561M16a	WBS Management P.5.6 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Erica Ahlswede																			
P561M16b	WBS Management P.5.6 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Erica Ahlswede																			
P561M21a	WBS Management P.5.6 FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Erica Ahlswede																			
P561M21b	WBS Management P.5.6 FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$16,554	Erica Ahlswede																			
P561M40	WBS Management P.5.6 FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$15,750	Erica Ahlswede																			
P561M35	WBS Management P.5.6 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$26,806	Erica Ahlswede																			
P561M45	WBS Management P.5.6 FY23 Closeout (LOE)	03-Oct-22	22-Sep-23	03-Oct-22	22-Sep-23	0%	240	\$27,363	Erica Ahlswede																			
P56IT2	P.05.06 Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Erica Ahlswede																			
P56DOC2	P.05.06 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$4,977	Erica Ahlswede																			
P.05.06.02 Evaluations at 1.3 GeV (Target Utility Systems)		17-Aug-18 A	31-Jul-20 A	17-Aug-18	31-Jul-20		0	\$0																				
P.05.06.02.02 Design- Evaluations at 1.3 GeV (Target Utility Systems)		17-Aug-18 A	31-Jul-20 A	17-Aug-18	31-Jul-20		0	\$0																				
P562D1	Evaluation of FTS Loop 1 - Preliminary Design (Aug through Sep)	17-Aug-18 A	28-Sep-18 A	17-Aug-18	28-Sep-18	100%	0	\$0	Erica Ahlswede																			
P562D85	Evaluation of FTS Loop 1 - Preliminary Design (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Erica Ahlswede																			
P562D11	Evaluation of FTS Loop 2 Preliminary Design	21-Dec-18 A	31-Mar-19 A	21-Dec-18	31-Mar-19	100%	0	\$0	Erica Ahlswede																			
P562D41	Evaluation of FTS Helium and Nitrogen Preliminary Design	02-Jan-19 A	31-Mar-19 A	02-Jan-19	31-Mar-19	100%	0	\$0	Erica Ahlswede																			
P562D11b	Evaluation of FTS Loop 2 Preliminary Design Continued	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D41b	Evaluation of FTS Helium and Nitrogen Preliminary Design Continued	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D85b	Evaluation of FTS Loop 1 - Preliminary Design Continued	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D21	Evaluation of FTS Loop 3 Preliminary Design	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D60	Evaluation of FTS Loop 2 - Final	30-Jul-19 A	30-Aug-19 A	30-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D31	Evaluation of FTS Loop 4 Preliminary Design	31-Jul-19 A	30-Aug-19 A	31-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D51	Evaluation of FTS Secondary Systems Preliminary Design	31-Jul-19 A	30-Aug-19 A	31-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D65	Evaluation of FTS Loop 3 - Final	31-Jul-19 A	30-Aug-19 A	31-Jul-19	30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562MS001	Evaluation of FTS Loop 2 Preliminary Design Complete		30-Aug-19 A		30-Aug-19	100%	0	\$0	Erica Ahlswede																			
P562D70	Evaluation of FTS Loop 4 - Final	03-Sep-19 A	28-Feb-20 A	03-Sep-19	28-Feb-20	100%	0	\$0	Erica Ahlswede																			
P562D51b	Evaluation of FTS Secondary Systems Preliminary Design Continued	03-Sep-19 A	30-Oct-19 A	03-Sep-19	30-Oct-19	100%	0	\$0	Erica Ahlswede																			
P562D60b	Evaluation of FTS Loop 2 - Final Continued	03-Sep-19 A	30-Oct-19 A	03-Sep-19	30-Oct-19	100%	0	\$0	Erica Ahlswede																			
P562D65b	Evaluation of FTS Loop 3 - Final Continued	03-Sep-19 A	30-Oct-19 A	03-Sep-19	30-Oct-19	100%	0	\$0	Erica Ahlswede																			
P562D80a	Evaluation of FTS Secondary Systems - Final	25-Mar-20 A	31-Mar-20 A	25-Mar-20	31-Mar-20	100%	0	\$0	Erica Ahlswede																			

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P562D80b	Evaluation of FTS Secondary Systems - Final continued	01-Apr-20 A	22-Jun-20 A	01-Apr-20	22-Jun-20	100%	0	\$0	Erica Ahlschwede															
P562D55	Evaluation of FTS Loop 1 - Final	03-Jun-20 A	31-Jul-20 A	03-Jun-20	31-Jul-20	100%	0	\$0	Erica Ahlschwede															
P05.06.03 Upgrades for 1.3 GeV Systems		06-Mar-20 A	30-Sep-20 A	06-Mar-20	30-Sep-20		0	\$0																
P05.06.03.02 Design - Upgrades for 1.3 GeV Systems		06-Mar-20 A	30-Sep-20 A	06-Mar-20	30-Sep-20		0	\$0																
P563D65a	FTS Design Basis Updates - Mech Final Design	06-Mar-20 A	31-Mar-20 A	06-Mar-20	31-Mar-20	100%	0	\$0	Erica Ahlschwede															
P563D65b	FTS Design Basis Updates - Mech Final Design continued	01-Apr-20 A	29-May-20 A	01-Apr-20	29-May-20	100%	0	\$0	Erica Ahlschwede															
P563MS001	FTS Design Basis Updates - Mech Final Design Complete		29-May-20 A		29-May-20	100%	0	\$0	Erica Ahlschwede															
P563D61	Design required upgrades for FTS Secondary Systems Final Design	23-Jun-20 A	21-Jul-20 A	23-Jun-20	21-Jul-20	100%	0	\$0	Erica Ahlschwede															
P563D11	Design required upgrades for FTS Loop 1 Final Design	10-Sep-20 A	30-Sep-20 A	10-Sep-20	30-Sep-20	100%	0	\$0	Erica Ahlschwede															
P05.06.04 Upgrades for Gas Injection		01-Oct-18 A	10-Jul-23	01-Oct-18	10-Jul-23		520	\$3,002,338																
P05.06.04.02 Design - Upgrades for Gas Injection		01-Oct-18 A	14-Sep-21	01-Oct-18	01-Oct-21		74	\$1,262,423																
P564D1	flowsheet development/design for a PPU gas supply and recirculation system - Preliminary Design	01-Oct-18 A	21-Dec-18 A	01-Oct-18	21-Dec-18	100%	0	\$0	Erica Ahlschwede															
P564D5a	Inter. Design Part 1 flowsheet development/design for a PPU gas supply and recirculation system	31-Jan-20 A	31-Mar-20 A	31-Jan-20	31-Mar-20	100%	0	\$0	Erica Ahlschwede															
P564D5b	Inter. Design Part 1 flowsheet development/design for a PPU gas supply and recirculation system continued	01-Apr-20 A	24-Apr-20 A	01-Apr-20	24-Apr-20	100%	0	\$0	Erica Ahlschwede															
P564D20	Inter. design of Mol Sieve beds and shielding continued (design modifications)	27-Apr-20 A	31-Jul-20 A	27-Apr-20	31-Jul-20	100%	0	\$0	Erica Ahlschwede															
P564D15	Inter. Design Part 2 - source term and piping evaluation	26-May-20 A	31-Aug-20 A	26-May-20	31-Aug-20	100%	0	\$0	Erica Ahlschwede															
P564D100	Inter. design of Mol Sieve beds and shielding continued (IDR Preparation)	03-Aug-20 A	12-Oct-20 A	03-Aug-20	12-Oct-20	100%	0	\$0	Erica Ahlschwede															
P564D95a	Inter. design of Mol Sieve beds and shielding continued (design modifications analysis)	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Erica Ahlschwede															
P564D95b	Inter. design of Mol Sieve beds and shielding continued (design modifications analysis) Continued	02-Nov-20 A	10-Nov-20 A	02-Nov-20	10-Nov-20	100%	0	\$36,757	Erica Ahlschwede															
P564D25	Inter. Design Review Mol Sieve skid and gas injection	11-Nov-20 A	11-Nov-20 A	11-Nov-20	11-Nov-20	100%	0	\$23,687	Erica Ahlschwede															
P564D60	Design for new 480/208 Distribution panel in 8700 Basement & High Bay Conduit/Cabling	11-Nov-20 A	25-Jan-21 A	11-Nov-20	10-Dec-20	100%	0	\$65,519	Erica Ahlschwede															
P564D30	Complete Equipment Specification for Mol Sieve Bed Skids	12-Nov-20 A	19-Feb-21 A	12-Nov-20	11-Dec-20	100%	0	\$49,789	Erica Ahlschwede															
P564D40	Final Mech Design Mol Sieve skid and shielding	12-Nov-20 A	25-Feb-21 A	12-Nov-20	25-Jan-21	100%	0	\$75,728	Erica Ahlschwede															
P564D65	Design Review for new 480/208 Basement panel & High Bay Cabling/Conduit	26-Jan-21 A	26-Jan-21 A	11-Dec-20	11-Dec-20	100%	0	\$14,145	Erica Ahlschwede															
P564D70	Update Estimate for T&M Sub Installation	15-Feb-21 A	15-Feb-21 A	14-Dec-20	14-Dec-20	100%	0	\$7,038	Erica Ahlschwede															
P564D110	Process Controls Design Part 1 - Mol Sieve	15-Feb-21 A	15-Mar-21 A	01-Dec-20	11-Jan-21	100%	0	\$26,166	Erica Ahlschwede															
P564D50	Design Part 3 - Doc Prep: PPU Gas Supply & Recirculation System	16-Feb-21 A	13-May-21 A	12-Nov-20	22-Feb-21	100%	0	\$87,866	Erica Ahlschwede															
P564D35	Electrical Design - Mol Sieve Upgrades	22-Feb-21 A	18-Mar-21 A	14-Dec-20	25-Jan-21	100%	0	\$21,562	Erica Ahlschwede															
P564D75	Prepare SRO for T&M Sub	24-Feb-21 A	03-Mar-21 A	15-Dec-20	11-Jan-21	100%	0	\$11,732	Erica Ahlschwede															
P564D45	Final Design Review Mol Sieve skid and shielding - OLD	01-Mar-21 A	01-Mar-21 A	26-Jan-21	26-Jan-21	100%	0	\$24,608	Erica Ahlschwede															
P564D150	Mechanical Design - Vessel Insert	01-Mar-21 A	12-Apr-21 A	01-Mar-21	12-Apr-21	100%	0	\$36,330	Erica Ahlschwede															
P564D140	Mol Sieve Flow Sheet Development	01-Mar-21 A	19-Apr-21 A	01-Mar-21	19-Apr-21	100%	0	\$107,017	Erica Ahlschwede															
P564D180	Update Source Terms	01-Mar-21 A	26-Apr-21 A	01-Mar-21	26-Apr-21	100%	0	\$47,299	Erica Ahlschwede															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P564D115	Process Controls Design Part 2 – Gas recirculation	02-Mar-21 A	29-Mar-21 A	12-Jan-21	09-Feb-21	100%	0	\$26,166	Erica Ahlswede																						
P564D210	Point adjustment for Final Design Review Mol Sieve skid and shielding via PCR TG-2021-08	02-Mar-21 A	03-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$24,397)	Erica Ahlswede																						
P564D120	Process Controls Design - Review Mol Sieve Instrumentation	02-Mar-21 A	26-Apr-21 A	01-Mar-21	26-Apr-21	100%	0	\$23,019	Erica Ahlswede																						
P564D200	Final Design Review - Basement Electrical Upgrade	18-Mar-21 A	18-Mar-21 A	19-Mar-21	19-Mar-21	100%	0	\$5,041	Erica Ahlswede																						
P564D155	Mechanical Design - preliminary seismic calcs	13-Apr-21 A	10-May-21 A	13-Apr-21	10-May-21	100%	0	\$38,761	Erica Ahlswede																						
P564D145	Finalize Mol Sieve Flow Sheet	20-Apr-21 A	15-Jun-21	20-Apr-21	15-Jun-21	60%	11	\$115,199	Erica Ahlswede																						
P564D185	Review Source Terms for Regen Gas	27-Apr-21 A	28-May-21 A	27-Apr-21	24-May-21	100%	0	\$21,733	Erica Ahlswede																						
P564D125	Process Controls Design - Finalize Mol Sieve Instrumentation	27-Apr-21 A	18-Jun-21	27-Apr-21	15-Jun-21	5%	14	\$18,703	Erica Ahlswede																						
P564D205	Final Design Review - Gas Supply (Gas Panel 10)	13-May-21 A	13-May-21 A	20-May-21	20-May-21	100%	0	\$9,325	Erica Ahlswede																						
P564D105	Final Design Part 3 - Finalize PPU Gas Supply & Recirculation System	14-May-21 A	17-Jun-21	23-Feb-21	11-Mar-21	80%	13	\$60,517	Erica Ahlswede																						
P564D165	Mechanical Design - layouts GAR	21-May-21 A	12-Jul-21	21-May-21	12-Jul-21	5%	29	\$42,501	Erica Ahlswede																						
P564D130	Process Controls Design - Review Gas Recirculation Instrumentation	21-May-21 A	19-Jul-21	16-Jun-21	11-Aug-21	5%	34	\$23,019	Erica Ahlswede																						
P564D160	Mechanical Design - DACs for seismic calcs	01-Jun-21	24-Jun-21	11-May-21	04-Jun-21	0%	18	\$19,647	Erica Ahlswede																						
P564D190	Write DAC for Source Term for Regen Gas	01-Jun-21	18-Jun-21	25-May-21	14-Jun-21	0%	14	\$24,397	Erica Ahlswede																						
P564D80	Prelim Elect. Design for Gas Recirc Loads in GAR, CAR and PCE	18-Jun-21	13-Aug-21	15-Mar-21	10-May-21	0%	40	\$65,292	Erica Ahlswede																						
P564D195	Equipment Specification For Mol Sieve	13-Jul-21	30-Aug-21	13-Jul-21	30-Aug-21	0%	35	\$54,176	Erica Ahlswede																						
P564D135	Process Controls Design - Finalize Gas Recirculation Instrumentation	20-Jul-21	03-Sep-21	12-Aug-21	30-Sep-21	0%	34	\$18,703	Erica Ahlswede																						
P564D85	Final Elect. Design for Gas Recirc Loads in GAR, CAR and PCE	16-Aug-21	13-Sep-21	11-May-21	08-Jun-21	0%	20	\$30,911	Erica Ahlswede																						
P564D215	Final Design Review Mol Sieve skid and shielding	31-Aug-21	31-Aug-21	31-Aug-21	31-Aug-21	0%	1	\$24,398	Erica Ahlswede																						
P564D55	Final Design Review Gas Supply & Recirculation System	14-Sep-21	14-Sep-21	01-Oct-21	01-Oct-21	0%	1	\$30,071	Erica Ahlswede																						
<b>P05.06.04.03 Procure/Fab - Upgrades for Gas Injection</b>		30-Dec-20 A	29-Apr-22	12-Nov-20	03-May-22		226	\$1,086,036																							
P564P31	Procure long lead mechanical components for PPU Gas Injection	30-Dec-20 A	15-Jan-21 A	12-Nov-20	11-Dec-20	100%	0	\$36,597	Erica Ahlswede																						
P564P55	Fabricate long lead mechanical components for PPU Gas Injection	19-Jan-21 A	18-Jun-21	14-Dec-20	18-May-21	80%	14	\$0	Erica Ahlswede																						
P564P190	Procure critical spare valve	01-Feb-21 A	02-Feb-21 A	01-Apr-21	05-Apr-21	100%	0	\$369	Erica Ahlswede																						
P564P195	Fabricate critical spare valve	03-Feb-21 A	09-Mar-21 A	06-Apr-21	28-Jul-21	100%	0	\$0	Erica Ahlswede																						
P564P115	T&M Sub Procurement of new panel, conduit and cabling - OLD	02-Mar-21 A	03-Mar-21 A	12-Jan-21	23-Feb-21	100%	0	\$74,641	Erica Ahlswede																						
P564P200	Receive critical spare valve	03-Mar-21 A	26-Mar-21 A	29-Jul-21	29-Jul-21	100%	0	\$1,488	Erica Ahlswede																						
P564P205	Point adjustment for T&M Sub Procurement via PCR TG-2021-08	03-Mar-21 A	03-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$74,641)	Erica Ahlswede																						
P564MS58	Fabrication of critical spare valve complete		09-Mar-21 A		28-Jul-21	100%	0	\$0	Erica Ahlswede																						
P564P210	T&M Sub Procurement of new panel, conduit and cabling	27-Apr-21 A	30-Jun-21	02-Mar-21	13-Apr-21	60%	22	\$74,641	Erica Ahlswede																						
P564MS007	Fabrication of long lead mechanical components for PPU Gas Injection Complete		18-Jun-21		18-May-21	0%	0	\$0	Erica Ahlswede																						
P564P65	Receive long lead mechanical components for PPU Gas Injection	21-Jun-21	21-Jun-21	19-May-21	19-May-21	0%	1	\$55,100	Erica Ahlswede																						
P564P50	Procure balance of electrical components for PPU Gas Injection	15-Sep-21	12-Oct-21	04-Oct-21	29-Oct-21	0%	20	\$13,664	Erica Ahlswede																						

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29				
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P564P80	Fabricate balance of electrical components for PPU Gas Injection	13-Oct-21	15-Mar-22	01-Nov-21	01-Apr-22	0%	100	\$0	Erica Ahlschwede																		
P564MS009	Fabrication of balance of electrical components for PPU Gas Injection Complete		15-Mar-22		01-Apr-22	0%	0	\$0	Erica Ahlschwede																		
P564P85	Receive balance of electrical components for PPU Gas Injection	16-Mar-22	16-Mar-22	04-Apr-22	04-Apr-22	0%	1	\$25,105	Erica Ahlschwede																		
<b>P05.06.04.03.01 Procure/Fab - Mol Sieve Skid</b>		<b>01-Jun-21</b>	<b>29-Apr-22</b>	<b>27-Jan-21</b>	<b>29-Apr-22</b>		<b>226</b>	<b>\$429,383</b>																			
P564P100	Prepare SOW and Tech Spec for Mol Sieve skids	01-Jun-21	21-Jun-21	27-Jan-21	16-Feb-21	0%	15	\$4,623	Erica Ahlschwede																		
P564P125	Procurement Readiness Review (PRR) for Mol Sieve skids	22-Jun-21	28-Jun-21	17-Feb-21	23-Feb-21	0%	5	\$4,807	Erica Ahlschwede																		
P564MS011	Technical Package to Procurement for Mol Sieve skids		28-Jun-21		23-Feb-21	0%	0	\$0	Erica Ahlschwede																		
P564P130	Procurement Review and Bid for Mol Sieve skids	29-Jun-21	20-Jul-21	24-Feb-21	16-Mar-21	0%	15	\$923	Erica Ahlschwede																		
P564MS012	Issue RFP for Mol Sieve skids		20-Jul-21		16-Mar-21	0%	0	\$0	Erica Ahlschwede																		
P564P135	Solicitation Period for Mol Sieve skids	01-Sep-21	06-Oct-21	01-Sep-21	06-Oct-21	0%	25	\$21,097	Erica Ahlschwede																		
P564MS013	Solicitation complete for Mol Sieve skids		06-Oct-21		06-Oct-21	0%	0	\$0	Erica Ahlschwede																		
P564P120	Review and award contract for Mol Sieve skids	07-Oct-21	27-Oct-21	07-Oct-21	27-Oct-21	0%	15	\$963	Erica Ahlschwede																		
P564MS13	Award contract for Mol Sieve skids		27-Oct-21		27-Oct-21	0%	0	\$0	Erica Ahlschwede																		
P564P105	Fabrication of Mol Sieve skids	28-Oct-21	28-Apr-22	28-Oct-21	28-Apr-22	0%	120	\$0	Erica Ahlschwede																		
P564P110	Receipt of mol sieve skid	29-Apr-22	29-Apr-22	29-Apr-22	29-Apr-22	0%	1	\$396,970	Erica Ahlschwede																		
<b>P05.06.04.03.02 Procure/Fab - Long Lead Electrical Components</b>		<b>15-Sep-21</b>	<b>16-Mar-22</b>	<b>04-Oct-21</b>	<b>04-Apr-22</b>		<b>121</b>	<b>\$246,121</b>																			
P564P140	Prepare SOW and Tech Spec for long lead electrical components for PPU Gas Injection	15-Sep-21	21-Sep-21	04-Oct-21	08-Oct-21	0%	5	\$578	Erica Ahlschwede																		
P564P145	Procurement Readiness Review (PRR) for long lead electrical components for PPU Gas Injection	22-Sep-21	28-Sep-21	11-Oct-21	15-Oct-21	0%	5	\$185	Erica Ahlschwede																		
P564MS18	Technical Package to Procurement for long lead electrical components for PPU Gas Injection		28-Sep-21		15-Oct-21	0%	0	\$0	Erica Ahlschwede																		
P564P150	Procurement Review and Bid for long lead electrical components for PPU Gas Injection	29-Sep-21	12-Oct-21	18-Oct-21	29-Oct-21	0%	10	\$955	Erica Ahlschwede																		
P564MS23	Issue RFP for long lead electrical components for PPU Gas Injection		12-Oct-21		29-Oct-21	0%	0	\$0	Erica Ahlschwede																		
P564P155	Solicitation Period for long lead electrical components for PPU Gas Injection	13-Oct-21	02-Nov-21	01-Nov-21	19-Nov-21	0%	15	\$15,805	Erica Ahlschwede																		
P564MS28	Solicitation complete for long lead electrical components for PPU Gas Injection		02-Nov-21		19-Nov-21	0%	0	\$0	Erica Ahlschwede																		
P564P160	Review and award contract for long lead electrical components for PPU Gas Injection	03-Nov-21	09-Nov-21	22-Nov-21	30-Nov-21	0%	5	\$963	Erica Ahlschwede																		
P564MS33	Award contract for long lead electrical components for PPU Gas Injection		09-Nov-21		30-Nov-21	0%	0	\$0	Erica Ahlschwede																		
P564P70	Fabricate long lead electrical components for PPU Gas Injection	10-Nov-21	15-Mar-22	01-Dec-21	01-Apr-22	0%	80	\$0	Erica Ahlschwede																		
P564MS008	Fabrication of long lead electrical components for PPU Gas Injection Complete		15-Mar-22		01-Apr-22	0%	0	\$0	Erica Ahlschwede																		
P564P75	Receive long lead electrical components for PPU Gas Injection	16-Mar-22	16-Mar-22	04-Apr-22	04-Apr-22	0%	1	\$227,636	Erica Ahlschwede																		
<b>P05.06.04.03.03 Procure/Fab - Balance of Mechanical Components</b>		<b>15-Sep-21</b>	<b>13-Apr-22</b>	<b>04-Oct-21</b>	<b>03-May-22</b>		<b>141</b>	<b>\$203,567</b>																			
P564P165	Prepare SOW and Tech Spec for balance of mechanical components for PPU Gas Injection	15-Sep-21	21-Sep-21	04-Oct-21	08-Oct-21	0%	5	\$4,623	Erica Ahlschwede																		
P564P170	Procurement Readiness Review (PRR) for balance of mechanical components for PPU Gas Injection	22-Sep-21	28-Sep-21	11-Oct-21	15-Oct-21	0%	5	\$4,807	Erica Ahlschwede																		
P564MS38	Technical Package to Procurement for balance of mechanical components for PPU Gas Injection		28-Sep-21		15-Oct-21	0%	0	\$0	Erica Ahlschwede																		
P564P175	Procurement Review and Bid for balance of mechanical components for PPU Gas Injection	29-Sep-21	12-Oct-21	18-Oct-21	29-Oct-21	0%	10	\$5,717	Erica Ahlschwede																		

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P564MS43	Issue RFP for balance of mechanical components for PPU Gas Injection		12-Oct-21		29-Oct-21	0%	0	\$0	Erica Ahlschwede															
P564P180	Solicitation Period for balance of mechanical components for PPU Gas Injection	13-Oct-21	02-Nov-21	01-Nov-21	19-Nov-21	0%	15	\$21,625	Erica Ahlschwede															
P564MS48	Solicitation complete for balance of mechanical components for PPU Gas Injection		02-Nov-21		19-Nov-21	0%	0	\$0	Erica Ahlschwede															
P564P185	Review and award contract for balance of mechanical components for PPU Gas Injection	03-Nov-21	09-Nov-21	22-Nov-21	30-Nov-21	0%	5	\$963	Erica Ahlschwede															
P564MS53	Award contract for balance of mechanical components for PPU Gas Injection		09-Nov-21		30-Nov-21	0%	0	\$0	Erica Ahlschwede															
P564P90	Fabricate balance of mechanical components for PPU Gas Injection	10-Nov-21	12-Apr-22	01-Dec-21	02-May-22	0%	100	\$0	Erica Ahlschwede															
P564MS010	Fabrication of balance of mechanical components for PPU Gas Injection Complete		12-Apr-22		02-May-22	0%	0	\$0	Erica Ahlschwede															
P564P95	Receive balance of mechanical components for PPU Gas Injection	13-Apr-22	13-Apr-22	03-May-22	03-May-22	0%	1	\$165,832	Erica Ahlschwede															
<b>P05.06.04.04 Installation - Upgrades for Gas Injection</b>		24-May-21 A	10-Jul-23	24-Feb-21	10-Jul-23		520	\$653,879																
P564I130	T&M Sub Installation of new panel, conduit and cabling	24-May-21 A	17-Aug-21	24-Feb-21	19-May-21	5%	55	\$82,995	Erica Ahlschwede															
P564I111	Electrical Installations (RM-E) in CAR/GAR/PCE & High bay Phase 1	21-Mar-22	14-Jun-22	05-Apr-22	29-Jun-22	0%	60	\$60,840	Erica Ahlschwede															
P564I61	Install new Gas Supply / Recycle System components Phase 1	02-May-22	26-Jul-22	04-May-22	28-Jul-22	0%	60	\$104,886	Erica Ahlschwede															
P564I76	Oversight during installation (LOE)	02-May-22	13-Oct-22	04-May-22	17-Oct-22	0%	116	\$69,395	Erica Ahlschwede															
P564I101	OST support for installation (LOE)	02-May-22	13-Oct-22	04-May-22	17-Oct-22	0%	116	\$7,160	Erica Ahlschwede															
P564I116	Electrical Installations (RM-E) in CAR/GAR/PCE & High bay Phase 2	15-Jun-22	08-Sep-22	30-Jun-22	23-Sep-22	0%	60	\$60,044	Erica Ahlschwede															
P564I125	Install new Gas Supply / Recycle System components Phase 2	27-Jul-22	19-Oct-22	29-Jul-22	21-Oct-22	0%	60	\$121,649	Erica Ahlschwede															
P564I106	Install mol sieve bed skid in GAR	08-Aug-22	19-Aug-22	08-Aug-22	19-Aug-22	0%	10	\$36,254	Erica Ahlschwede															
P5644IMS001	P.05.06.04.04_Installation Complete		19-Oct-22		21-Oct-22	0%	0	\$0	Erica Ahlschwede															
P5644IMS006	P.05.06.04.04_Operational procedures updated - Upgrades for Gas Injection		19-Oct-22		21-Oct-22	0%	0	\$0	Erica Ahlschwede															
P564I135	Internal Readiness Review for Test and Checkout of Gas Injection Upgrades	20-Oct-22	20-Oct-22	24-Oct-22	24-Oct-22	0%	1	\$21,681	Erica Ahlschwede															
P564I145	Stand Alone Test and Checkout of Gas Injection Upgrades	21-Oct-22	09-Nov-22	25-Oct-22	11-Nov-22	0%	14	\$73,779	Erica Ahlschwede															
P564I140	Test & Checkout for GI Upgrades - Empty Hg Loop	20-Jun-23	10-Jul-23	20-Jun-23	10-Jul-23	0%	14	\$15,195	Erica Ahlschwede															
<b>P05.07 Instrument Systems</b>		03-Oct-16 A	17-Aug-20 A	03-Oct-16	17-Aug-20		0	\$0																
<b>P05.07.01 Management and System Integration</b>		03-Oct-16 A	17-Aug-20 A	03-Oct-16	17-Aug-20		0	\$0																
<b>P05.07.01.01 Management and System Integration - Instrument Systems</b>		03-Oct-16 A	17-Aug-20 A	03-Oct-16	17-Aug-20		0	\$0																
P571M1	WBS Management P.5.7 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Oscar Martinez															
P571M20	WBS Management P.5.7 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Oscar Martinez															
P571M6	WBS Management P.5.7 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P571M11	WBS Management P.5.7 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Oscar Martinez															
P571M11b	WBS Management P.5.7 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Oscar Martinez															
P571M11c	WBS Management P.5.7 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Oscar Martinez															
P571M15a	WBS Management P.5.7 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez															
P571M15b	WBS Management P.5.7 FY20 (LOE) continued	01-Apr-20 A	17-Aug-20 A	01-Apr-20	17-Aug-20	100%	0	\$0	Oscar Martinez															





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Funding Allocation (FY2016-FY2028)																											
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P582D26	Design second carbon delay bed shielding	30-Oct-18 A	31-Oct-18 A	30-Oct-18	31-Oct-18	100%	0	\$0	Greg Stephens																												
P582D35	Final Design Review for Carbon Delay Bed and Shielding	01-Apr-19 A	02-Apr-19 A	01-Apr-19	02-Apr-19	100%	0	\$0	Greg Stephens																												
P05.08.02.03 Procure/Fab - Additional MOTS Delay Bed		02-Nov-20 A	12-May-21 A	02-Nov-20	25-Aug-21		0	\$258,577																													
P582P51	Procure and receive second carbon delay bed rupture disk and rupture disk holder	01-Dec-20 A	05-Mar-21 A	23-Nov-20	01-Dec-20	100%	0	\$3,684	Greg Stephens																												
P582P86	Procure and receive electrical hardware	01-Dec-20 A	26-Feb-21 A	02-Nov-20	10-Feb-21	100%	0	\$17,699	Greg Stephens																												
P582P91	Procure and receive crane for delay bed installation	01-Feb-21 A	18-Mar-21 A	02-Nov-20	10-Feb-21	100%	0	\$4,751	Greg Stephens																												
P05.08.02.03.02 Vessel and Cartridge		02-Nov-20 A	03-May-21 A	02-Nov-20	25-Aug-21		0	\$128,008																													
P582P41	Procure second carbon delay bed vessel and cartridge	02-Nov-20 A	20-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$579	Greg Stephens																												
P582P46	Fabricate second carbon delay bed vessel and cartridge	23-Nov-20 A	28-Apr-21 A	23-Nov-20	24-Aug-21	100%	0	\$0	Greg Stephens																												
P582MS10	Fabrication of second carbon delay bed vessel and cartridge Complete		03-May-21 A		24-Aug-21	100%	0	\$0	Greg Stephens																												
P582P96	Receive second carbon delay bed vessel and cartridge	03-May-21 A	03-May-21 A	24-Aug-21	25-Aug-21	100%	0	\$127,429	Greg Stephens																												
P05.08.02.03.01 Shielding		02-Nov-20 A	12-May-21 A	02-Nov-20	24-Aug-21		0	\$104,435																													
P582P61	Procure Shielding	02-Nov-20 A	20-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$579	Greg Stephens																												
P582P66	Fabricate Shielding	23-Nov-20 A	11-May-21 A	23-Nov-20	23-Aug-21	100%	0	\$0	Greg Stephens																												
P582MS05	Fabrication of Shielding Complete		11-May-21 A		23-Aug-21	100%	0	\$0	Greg Stephens																												
P582P101	Receive Shielding	12-May-21 A	12-May-21 A	24-Aug-21	24-Aug-21	100%	0	\$103,855	Greg Stephens																												
P05.08.02.04 Installation - Additional MOTS Delay Bed		01-Apr-21 A	21-Jun-21	01-Jun-21	23-Sep-21		15	\$62,490																													
P582I11	Documentation and Training - Drawings	01-Apr-21 A	21-May-21 A	01-Sep-21	23-Sep-21	100%	0	\$1,403	Greg Stephens																												
P582I16	Documentation and Training - Training Modules	11-May-21 A	31-May-21 A	01-Sep-21	23-Sep-21	100%	0	\$1,403	Greg Stephens																												
P582I96	Dry carbon of second carbon delay bed	11-May-21 A	17-May-21 A	01-Sep-21	09-Sep-21	100%	0	\$10,082	Greg Stephens																												
P582I6	Documentation and Training - Procedures	11-May-21 A	21-Jun-21	01-Sep-21	23-Sep-21	75%	15	\$10,577	Greg Stephens																												
P582I91	Install second carbon delay bed	01-Jun-21*	07-Jun-21	25-Aug-21	01-Sep-21	0%	5	\$14,993	Greg Stephens																												
P582I100	Install Crane for installation of delay bed	08-Jun-21	09-Jun-21	01-Jun-21	02-Jun-21	0%	2	\$14,961	Greg Stephens																												
P582I101	Install shielding	10-Jun-21	16-Jun-21	09-Sep-21	16-Sep-21	0%	5	\$9,071	Greg Stephens																												
P5824IMS001	P.05.08.02.04_Installation Complete		16-Jun-21		16-Sep-21	0%	0	\$0	Greg Stephens																												
P5824IMS006	P.05.08.02.04_Operational procedures updated for Additional MOTS Delay Bed		21-Jun-21		23-Sep-21	0%	0	\$0	Greg Stephens																												
P05.08.03 MOTS Upgrades for Gas Injection		01-Oct-18 A	22-Jun-23	01-Oct-18	22-Jun-23		510	\$843,998																													
P05.08.03.02 Design - MOTS Upgrades for Gas Injection		01-Oct-18 A	20-Jul-21	01-Oct-18	11-Aug-21		35	\$255,846																													
P583D1	MOTS evaluations part 1 (once-through helium flow 20 slpm)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Greg Stephens																												
P583D1b	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Stephens																												
P583D11	Preliminary Design of Mol Sieve Beds & Shielding	22-Apr-19 A	27-Aug-19 A	22-Apr-19	27-Aug-19	100%	0	\$0	Greg Stephens																												
P583D16	Preliminary Design Review of Mol Sieve Beds & Shielding	28-Aug-19 A	28-Aug-19 A	28-Aug-19	28-Aug-19	100%	0	\$0	Greg Stephens																												
P583D21	Inter. Design of Mol Sieve Beds & Shielding	03-Sep-19 A	15-Jan-20 A	03-Sep-19	15-Jan-20	100%	0	\$0	Greg Stephens																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																																
										FY2016			FY2017			FY2018			FY2019			FY2020			FY2021			FY2022			FY2023			FY2024			FY2025			FY2026		
P583D1c	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued (beam on testing)	03-Sep-19 A	03-Feb-20 A	03-Sep-19	03-Feb-20	100%	0	\$0	Greg Stephens																																	
P583D40a	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications)	15-Jan-20 A	31-Mar-20 A	15-Jan-20	31-Mar-20	0%	0	\$0	Greg Stephens																																	
P583D6a	MOTS evaluations part 2 (source term calculations)	04-Feb-20 A	31-Mar-20 A	04-Feb-20	31-Mar-20	100%	0	\$0	Greg Stephens																																	
P583D40b	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications) continued	01-Apr-20 A	20-Aug-20 A	01-Apr-20	20-Aug-20	0%	0	\$0	Greg Stephens																																	
P583D6b	MOTS evaluations part 2 (source term calculations) continued	01-Apr-20 A	31-Aug-20 A	01-Apr-20	31-Aug-20	100%	0	\$0	Greg Stephens																																	
P583D45	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued (tritium sample)	07-Apr-20 A	30-Apr-20 A	07-Apr-20	30-Apr-20	100%	0	\$0	Greg Stephens																																	
P583D85	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued (tritium analysis)	01-May-20 A	29-May-20 A	01-May-20	29-May-20	100%	0	\$0	Greg Stephens																																	
P583D50	MOTS evaluations part 2 (molecular sieve shielding calculations)	18-May-20 A	31-Aug-20 A	18-May-20	31-Aug-20	100%	0	\$0	Greg Stephens																																	
P583MS001	MOTS evaluations part 1 (once-through helium flow 20 slpm) complete		29-May-20 A		29-May-20	100%	0	\$0	Greg Stephens																																	
P583MS005	CuO Reactor Shielding Design Confirmed		15-Jun-20 A		15-Jun-20	100%	0	\$0	Greg Stephens																																	
P583D30	Inter. Design of Mol Sieve Beds & Shielding Continued (IDR preparation)	01-Sep-20 A	12-Oct-20 A	01-Sep-20	12-Oct-20	100%	0	\$0	Greg Stephens																																	
P583D35a	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications analysis)	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Greg Stephens																																	
P583D26	Inter. Design Review of Mol Sieve Beds & Shielding	02-Nov-20 A	02-Nov-20 A	02-Nov-20	02-Nov-20	100%	0	\$904	Greg Stephens																																	
P583D35b	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications analysis) Continued	02-Nov-20 A	09-Nov-20 A	02-Nov-20	09-Nov-20	100%	0	\$10,623	Greg Stephens																																	
P583D55	Complete Equipment Specification for Mol Sieve Bed Skids - OLD	03-Nov-20 A	01-Mar-21 A	03-Nov-20	02-Dec-20	100%	0	\$5,698	Greg Stephens																																	
P583D65	Final Mech Design Mol Sieve skid and shielding - OLD	03-Nov-20 A	01-Mar-21 A	03-Nov-20	02-Dec-20	100%	0	\$14,261	Greg Stephens																																	
P583D70	Final Mech Design MOTS upgrades - OLD	02-Dec-20 A	01-Mar-21 A	03-Dec-20	13-Jan-21	100%	0	\$22,637	Greg Stephens																																	
P583D60	Electrical Design - MOTS & Mol Sieve Upgrades - OLD	02-Mar-21 A	02-Mar-21 A	03-Dec-20	13-Jan-21	100%	0	\$4,758	Greg Stephens																																	
P583D90	Adjustment activity for P583D70 via TG-2021-08 - Final Mech Design MOTS upgrades	02-Mar-21 A	02-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$14,303)	Greg Stephens																																	
P583D105	Adjustment activity for P583D55 via TG-2021-08 - Complete Equipment Specification for Mol Sieve Bed Skids	02-Mar-21 A	02-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$2,900)	Greg Stephens																																	
P583D110	Adjustment activity for P583D65 via TG-2021-08 - Final Mech Design Mol Sieve skid and shielding	02-Mar-21 A	02-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$9,292)	Greg Stephens																																	
P583D75	Final Design Review Mol Sieve skid and shielding - OLD	03-Mar-21 A	03-Mar-21 A	14-Jan-21	14-Jan-21	100%	0	\$3,451	Greg Stephens																																	
P583D80	Final Design Review MOTS Upgrades - OLD	03-Mar-21 A	03-Mar-21 A	14-Jan-21	14-Jan-21	100%	0	\$3,451	Greg Stephens																																	
P583D115	Adjustment activity for P583D60 via TG-2021-08 - Electrical Design - MOTS & Mol Sieve Upgrades	03-Mar-21 A	03-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$4,871)	Greg Stephens																																	
P583D95	Adjustment activity for P583D75 via TG-2021-08 - Final Design Review Mol Sieve skid and shielding	04-Mar-21 A	04-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$3,451)	Greg Stephens																																	
P583D100	Adjustment activity for P583D80 via TG-2021-08 - Final Design Review MOTS Upgrades	04-Mar-21 A	04-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$3,451)	Greg Stephens																																	
P583D120	Mech Design MOTS Upgrades-Additional design for CuO relocation	01-Apr-21 A	22-Jun-21	02-Mar-21	20-May-21	30%	16	\$47,359	Greg Stephens																																	
P583D125	Electrical Design MOTS Upgrades-Additional design for CuO relocation	01-Apr-21 A	22-Jun-21	02-Mar-21	20-May-21	30%	16	\$15,599	Greg Stephens																																	
P583D130	Mech Design MOTS Upgrades-Additional design for Glovebox removal	01-Apr-21 A	22-Jun-21	02-Mar-21	20-May-21	50%	16	\$62,971	Greg Stephens																																	
P583D140	Mechanical Design - preliminary seismic calcs	13-Apr-21 A	28-May-21 A	02-Mar-21	10-May-21	100%	0	\$21,723	Greg Stephens																																	
P583D135	Mechanical Design-MOTS Room Valve Panel	20-Apr-21 A	02-Jun-21	20-Apr-21	20-May-21	20%	2	\$37,672	Greg Stephens																																	
P583D150	Mechanical Design - layouts MOTS Room	28-May-21 A	20-Jul-21	21-May-21	11-Aug-21	5%	35	\$23,362	Greg Stephens																																	
P583D145	Mechanical Design - DACs for seismic calcs	01-Jun-21	24-Jun-21	11-May-21	04-Jun-21	0%	18	\$19,647	Greg Stephens																																	

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P05.08.03.03 Procure/Fab - MOTS Upgrades for Gas Injection		01-Apr-21 A	14-Apr-22	15-Jan-21	29-Apr-22		216	\$450,786															
P583P11	Procure MOTS hardware	01-Apr-21 A	21-May-21 A	15-Jan-21	05-Feb-21	100%	0	\$462	Greg Stephens														
P583P16	Fabricate MOTS hardware	24-May-21 A	11-Oct-21	08-Feb-21	29-Jun-21	90%	95	\$0	Greg Stephens														
P583P140	Prepare SOW and Tech Spec for Mol Sieve skids	01-Jun-21	21-Jun-21	15-Jan-21	05-Feb-21	0%	15	\$5,612	Greg Stephens														
P583P145	Procurement Readiness Review (PRR) for Mol Sieve skids	22-Jun-21	28-Jun-21	08-Feb-21	12-Feb-21	0%	5	\$185	Greg Stephens														
P583MS010	Technical Package to Procurement for Mol Sieve skids		28-Jun-21		12-Feb-21	0%	0	\$0	Greg Stephens														
P583P150	Procurement Review and Bid for Mol Sieve skids	29-Jun-21	20-Jul-21	15-Feb-21	05-Mar-21	0%	15	\$923	Greg Stephens														
P583MS011	Issue RFP for Mol Sieve skids		20-Jul-21		05-Mar-21	0%	0	\$0	Greg Stephens														
P583P155	Solicitation Period for Mol Sieve skids	01-Sep-21	06-Oct-21	01-Sep-21	06-Oct-21	0%	25	\$2,231	Greg Stephens														
P583MS012	Solicitation complete for Mol Sieve skids		06-Oct-21		06-Oct-21	0%	0	\$0	Greg Stephens														
P583P160	Review and award contract for Mol Sieve skids	07-Oct-21	27-Oct-21	07-Oct-21	27-Oct-21	0%	15	\$963	Greg Stephens														
P583MS15	Fabrication of MOTS hardware Complete		11-Oct-21		29-Jun-21	0%	0	\$0	Greg Stephens														
P583P21	Receive MOTS hardware	12-Oct-21	12-Oct-21	30-Jun-21	30-Jun-21	0%	1	\$43,441	Greg Stephens														
P584MS013	Award contract for Mol Sieve skids		27-Oct-21		27-Oct-21	0%	0	\$0	Greg Stephens														
P583P165	Fabrication of Mol Sieve skids	28-Oct-21	13-Apr-22	28-Oct-21	28-Apr-22	0%	120	\$0	Greg Stephens														
P583P170	Receipt of mol sieve skid	14-Apr-22	14-Apr-22	29-Apr-22	29-Apr-22	0%	1	\$396,970	Greg Stephens														
P05.08.03.04 Installation - MOTS Upgrades for Gas Injection		01-Feb-23	22-Jun-23	01-Feb-23	22-Jun-23		100	\$137,366															
P583I25	Remove existing MOTS glovebox/hardware	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	7	\$19,059	Greg Stephens														
P583I40	Relocate CuO Reactors- Mechanical	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	7	\$9,530	Greg Stephens														
P583I45	Relocate CuO Reactors- Electrical	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	7	\$9,530	Greg Stephens														
P583I21	Install MOTS hardware	08-Feb-23	04-Mar-23	08-Feb-23	04-Mar-23	0%	25	\$20,447	Greg Stephens														
P583I30	Install mol sieve bed skid	08-Feb-23	04-Mar-23	08-Feb-23	04-Mar-23	0%	25	\$38,988	Greg Stephens														
P5834IMS001	P.05.08.03.04_Installation Complete		04-Mar-23		04-Mar-23	0%	0	\$0	Greg Stephens														
P5834IMS006	P.05.08.03.04_Operational procedures updated for MOTS Upgrades for Gas Injection		06-Mar-23		06-Mar-23	0%	0	\$0	Greg Stephens														
P583I35	P.05.08.03 Test and checkout	13-Jun-23	22-Jun-23	13-Jun-23	22-Jun-23	0%	10	\$39,814	Greg Stephens														
P05.08.04 MOTS Cold Trap and Shielding		01-Oct-18 A	12-Mar-24	01-Oct-18	12-Mar-24		686	\$332,041															
P05.08.04.02 Design - MOTS Cold Trap and Shielding		01-Oct-18 A	15-Jan-21 A	01-Oct-18	15-Jan-21		0	\$38,716															
P584D005	Cold Trap and shield housing - Preliminary Design	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Greg Stephens														
P584D20	Cold Trap and shield housing - Preliminary Design Continued	01-Apr-19 A	27-Aug-19 A	01-Apr-19	27-Aug-19	100%	0	\$0	Greg Stephens														
P584MS001	Cold Trap and shield housing - Preliminary Design Complete		27-Aug-19 A		27-Aug-19	100%	0	\$0	Greg Stephens														
P584D015	Cold Trap and shield housing - Preliminary Design Review	28-Aug-19 A	28-Aug-19 A	28-Aug-19	28-Aug-19	100%	0	\$0	Greg Stephens														
P584D010	Cold Trap and shield housing - Final Component Design (thermal analysis)	03-Sep-19 A	22-Nov-19 A	03-Sep-19	22-Nov-19	100%	0	\$0	Greg Stephens														
P584D045a	Cold Trap and shield housing - Final Component Design (design modifications)	25-Nov-19 A	31-Mar-20 A	25-Nov-19	31-Mar-20	100%	0	\$0	Greg Stephens														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29										
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P584D045b	Cold Trap and shield housing - Final Component Design (design modifications) continued	01-Apr-20 A	29-Sep-20 A	01-Apr-20	29-Sep-20	100%	0	\$0	Greg Stephens																								
P584D050a	Cold Trap and shield housing - Final Component Design (design modifications analysis)	31-Aug-20 A	30-Oct-20 A	31-Aug-20	30-Oct-20	100%	0	\$0	Greg Stephens																								
P584D025a	Cold Trap and shield housing - Final Mechanical Design	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Greg Stephens																								
P584D030a	Cold Trap and shield housing - Final Hoist Design	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Greg Stephens																								
P584D035a	Cold Trap and shield housing - Final Electrical Design	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Greg Stephens																								
P584D050b	Cold Trap and shield housing - Final Component Design (design modifications analysis) Continued	02-Nov-20 A	05-Nov-20 A	02-Nov-20	05-Nov-20	100%	0	\$536	Greg Stephens																								
P584D025b	Cold Trap and shield housing - Final Mechanical Design Continued	02-Nov-20 A	14-Jan-21 A	02-Nov-20	14-Jan-21	100%	0	\$24,890	Greg Stephens																								
P584D030b	Cold Trap and shield housing - Final Hoist Design Continued	02-Nov-20 A	24-Dec-20 A	02-Nov-20	14-Jan-21	100%	0	\$1,805	Greg Stephens																								
P584D035b	Cold Trap and shield housing - Final Electrical Design Continued	02-Nov-20 A	14-Jan-21 A	02-Nov-20	14-Jan-21	100%	0	\$4,874	Greg Stephens																								
P584D040	Final Hoist Design Review	04-Jan-21 A	04-Jan-21 A	15-Jan-21	15-Jan-21	100%	0	\$3,305	Greg Stephens																								
P584D020	Cold Trap and shield housing - Final Design Review	15-Jan-21 A	15-Jan-21 A	15-Jan-21	15-Jan-21	100%	0	\$3,305	Greg Stephens																								
<b>P05.08.04.03 Procure/Fab - MOTS Cold Trap and Shielding</b>		19-Jan-21 A	10-Sep-21	19-Jan-21	17-Jun-21		72	\$227,310																									
P584P005	Procure Designed Cold Trap and shield housing components & Hoist	19-Jan-21 A	03-May-21 A	19-Jan-21	08-Feb-21	100%	0	\$476	Greg Stephens																								
P584P010	Procure and receive electrical hardware	18-Feb-21 A	18-Aug-21	19-Jan-21	13-Apr-21	50%	56	\$30,980	Greg Stephens																								
P584P015	Fabricate Designed Cold Trap and shield housing components	04-May-21 A	08-Sep-21	09-Feb-21	16-Jun-21	10%	70	\$0	Greg Stephens																								
P584P020	Fabricate Second Cold Trap Subassembly	04-May-21 A	09-Sep-21	01-Apr-21	16-Jun-21	10%	71	\$0	Greg Stephens																								
P582MS15	Fabrication of Designed Cold Trap and shield housing components Complete		08-Sep-21		16-Jun-21	0%	0	\$0	Greg Stephens																								
P584P15	Receive Designed Cold Trap and shield housing components & Hoist	09-Sep-21	09-Sep-21	17-Jun-21	17-Jun-21	0%	1	\$111,980	Greg Stephens																								
P582MS20	Fabrication of Second Cold Trap Subassembly Complete		09-Sep-21		16-Jun-21	0%	0	\$0	Greg Stephens																								
P584P25	Receive Second Cold Trap Subassembly	10-Sep-21	10-Sep-21	17-Jun-21	17-Jun-21	0%	1	\$83,874	Greg Stephens																								
<b>P05.08.04.04 Install - MOTS Cold Trap and Shielding</b>		24-Feb-21 A	12-Mar-24	15-Jan-21	12-Mar-24		585	\$66,015																									
P584I025	Install Hoist	24-Feb-21 A	23-Mar-21 A	15-Jan-21	19-Jan-21	100%	0	\$11,759	Greg Stephens																								
P584I005	Install Helium-cooled cold trap	22-Oct-21	28-Oct-21	22-Oct-21	28-Oct-21	0%	5	\$11,617	Greg Stephens																								
P584I030	Install MOTS room electrical	29-Oct-21	18-Nov-21	29-Oct-21	18-Nov-21	0%	15	\$9,294	Greg Stephens																								
P5843IMS02	P.05.08.03.04_MOTS Cold Trap Installation Complete		18-Nov-21		18-Nov-21	0%	0	\$0	Greg Stephens																								
P584I020	Documentation and Training - Training Modules	19-Nov-21	13-Dec-21	19-Nov-21	13-Dec-21	0%	15	\$1,457	Greg Stephens																								
P584I010	Documentation and Training - Procedures	19-Nov-21	13-Dec-21	19-Nov-21	13-Dec-21	0%	15	\$7,497	Greg Stephens																								
P584I015	Documentation and Training - Drawings	19-Nov-21	13-Dec-21	19-Nov-21	13-Dec-21	0%	15	\$2,914	Greg Stephens																								
P584I30	P.05.08.04.04 Test and Checkout of MOTS Cold Trap	19-Nov-21	06-Dec-21	19-Nov-21	06-Dec-21	0%	10	\$15,384	Greg Stephens																								
P5843IMS01	P.05.08.03.04_Operational procedures updated for MOTS Cold Trap		13-Dec-21		13-Dec-21	0%	0	\$0	Greg Stephens																								
P584I035	Install Second Cold Trap Subassembly	01-Feb-23	01-Feb-23	11-Mar-24	11-Mar-24	0%	1	\$3,812	Greg Stephens																								
P584I040	P.05.08.04.04 Test and Checkout of Second Cold Trap Subassembly	12-Mar-24	12-Mar-24	12-Mar-24	12-Mar-24	0%	1	\$2,282	Greg Stephens																								
<b>P05.09 2 MW Target</b>		03-Oct-16 A	26-Mar-24	03-Oct-16	26-Mar-24		696	\$11,526,893																									



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P59MS001	Final design review of 2MW capable target module completed		24-Jul-20 A		24-Jul-20	100%	0	\$0	Drew Winder						♦									
<b>P05.09.01 Management and System Integration</b>		03-Oct-16 A	26-Mar-24	03-Oct-16	26-Mar-24		696	\$1,492,770																
<b>P05.09.01.01 Management and System Integration - 2 MW Target</b>		03-Oct-16 A	26-Mar-24	03-Oct-16	26-Mar-24		696	\$1,492,770																
P591M1	WBS Management P.5.9 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Drew Winder		■	■												
P591M35	WBS Management P.5.9 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Drew Winder			■	■											
P591M40	Evaluate candidates for mechanical design engineer position	05-Apr-18 A	31-May-18 A	05-Apr-18	31-May-18	100%	0	\$0	Drew Winder				■											
P591M6	WBS Management P.5.9 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Drew Winder				■	■										
P591MS001	Hire mechanical design engineer for target module		01-Jun-18 A		01-Jun-18	100%	0	\$0	Drew Winder					♦										
P591M11	WBS Management P.5.9 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Drew Winder				■	■										
P591M11b	WBS Management P.5.9 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Drew Winder						■	■								
P591M11c	WBS Management P.5.9 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Drew Winder							■								
P591M16a	WBS Management P.5.9 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Drew Winder							■	■							
P591M16b	WBS Management P.5.9 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Drew Winder								■	■						
P591M21a	WBS Management P.5.9 FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder									■	■					
P591M96a	Oversight during target module fabrication FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder										■	■				
P591M21b	WBS Management P.5.9 FY21 (LOE)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$31,315	Drew Winder											■	■			
P591M96b	Oversight during target module fabrication FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$394,046	Drew Winder												■	■		
P591M120	WBS Management P.5.9 FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$9,975	Drew Winder															
P591M125	Oversight during target module fabrication FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$100,800	Drew Winder															
P591M26	WBS Management P.5.9 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$45,791	Drew Winder															
P591M106	Oversight during target module fabrication FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$773,360	Drew Winder															
P59IT1	P.05.09 Integrated Systems Testing Phase 1 Complete		19-Sep-22		16-Aug-22	0%	0	\$0	Drew Winder															
P59DOC1	P.05.09 Documentation for IRR/ERR Phase 1 Complete	20-Sep-22	26-Sep-22	17-Aug-22	23-Aug-22	0%	5	\$12,308	Drew Winder															
P591M31	WBS Management P.5.9 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$47,470	Drew Winder															
P591M116	Oversight during target module fabrication FY23 (LOE)	03-Oct-22	07-Oct-22	03-Oct-22	07-Oct-22	0%	5	\$11,880	Drew Winder															
P59PB1	P.05.09 Extended Outage Pre Beam ARR Documetation Complete	15-Jun-23	21-Jun-23	15-Jun-23	21-Jun-23	0%	5	\$12,786	Drew Winder															
P59IT2	P.05.09 Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Drew Winder															
P59DOC2	P.05.09 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$12,786	Drew Winder															
P591M36	WBS Management P.5.9 FY24 (LOE)	02-Oct-23	18-Mar-24	02-Oct-23	18-Mar-24	0%	112	\$26,971	Drew Winder															
P59IT3	P.05.09 Integrated Systems Testing Phase 3 Complete		19-Mar-24		19-Mar-24	0%	0	\$0	Drew Winder															
P59DOC3	P.05.09 Documentation for IRR/ERR Phase 3 Complete	20-Mar-24	26-Mar-24	20-Mar-24	26-Mar-24	0%	5	\$13,283	Drew Winder															
<b>P05.09.02 Target Module</b>		16-May-18 A	19-Mar-24	16-May-18	19-Mar-24		691	\$6,156,208																
<b>P05.09.02.01 Mercury Vessel (MV)</b>		16-May-18 A	05-Aug-22	16-May-18	05-Aug-22		0	\$298,480																





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5922D26	BOS Final Design Part 1 Review	18-Feb-20 A	18-Feb-20 A	18-Feb-20	18-Feb-20	100%	0	\$0	Drew Winder														
P5922D100a	BOS Final Design 2 - DAC / DWG	19-Feb-20 A	31-Mar-20 A	19-Feb-20	31-Mar-20	100%	0	\$0	Drew Winder														
P5922D100b	BOS Final Design 2 - DAC / DWG continued	01-Apr-20 A	28-Apr-20 A	01-Apr-20	28-Apr-20	100%	0	\$0	Drew Winder														
P5922D105	BOS Final Design 2 - DAC / DWG Check, FDR Prep	29-Apr-20 A	22-Jun-20 A	29-Apr-20	22-Jun-20	100%	0	\$0	Drew Winder														
P5922D41	BOS Final Design Part 2 Review	22-Jun-20 A	24-Jun-20 A	22-Jun-20	24-Jun-20	100%	0	\$0	Drew Winder														
P5922D80	BOS Design Change Notice	02-Jul-20 A	07-Jul-20 A	02-Jul-20	07-Jul-20	100%	0	\$0	Drew Winder														
P5922D46	BOS Design Closeout	03-Aug-20 A	10-Aug-20 A	03-Aug-20	10-Aug-20	100%	0	\$0	Drew Winder														
<b>P05.09.02.03 Target Module Assembly</b>		06-Jul-20 A	19-Mar-24	06-Jul-20	19-Mar-24		691	\$5,857,728															
<b>P05.09.02.03.03 Procure/Fab - Target Module Assembly</b>		06-Jul-20 A	24-Feb-23	06-Jul-20	09-Jan-23		428	\$5,681,664															
P5923P31a	Procure ESR material	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder														
P5923P1	Procure leak detector	02-Nov-20 A	02-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$577	Drew Winder														
P5923P11	Procure inflatable seal	02-Nov-20 A	01-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$577	Drew Winder														
P5923P31b	Procure ESR material	04-Jan-21 A	26-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$519	Drew Winder														
P5923P6	Fabricate leak detector	02-Feb-21 A	19-Apr-21 A	23-Nov-20	24-Mar-21	100%	0	\$0	Drew Winder														
P5923P16	Fabricate inflatable seal	02-Feb-21 A	19-Apr-21 A	23-Nov-20	25-Jun-21	100%	0	\$0	Drew Winder														
P5923P36	Fabricate ESR material	25-Feb-21 A	15-Mar-21 A	23-Nov-20	10-Mar-21	100%	0	\$0	Drew Winder														
P5923MS10	Fabrication of ESR material Complete		15-Mar-21 A		10-Mar-21	100%	0	\$0	Drew Winder														
P5923P390	Receive ESR material	16-Mar-21 A	16-Mar-21 A	11-Mar-21	11-Mar-21	100%	0	\$29,052	Drew Winder														
P5923P395	Receive leak detector	19-Apr-21 A	19-Apr-21 A	25-Mar-21	25-Mar-21	100%	0	\$35,684	Drew Winder														
P5923P400	Receive inflatable seal	19-Apr-21 A	19-Apr-21 A	28-Jun-21	28-Jun-21	100%	0	\$65,230	Drew Winder														
P5923MS05	Fabrication of leak detector Complete		19-Apr-21 A		24-Mar-21	100%	0	\$0	Drew Winder														
P5923MS15	Fabrication of inflatable seal Complete		19-Apr-21 A		25-Jun-21	100%	0	\$0	Drew Winder														
P5923P41	Procure target module sensors	04-May-22	24-May-22	04-May-22	24-May-22	0%	15	\$481	Drew Winder														
P5923P46	Fabricate target module sensors	25-May-22	14-Jul-22	25-May-22	14-Jul-22	0%	35	\$0	Drew Winder														
P5923P21	Procure contract for coating target nose	11-Jul-22	29-Jul-22	11-Jul-22	29-Jul-22	0%	15	\$481	Drew Winder														
P5923P375	Receive target module sensors	15-Jul-22	15-Jul-22	15-Jul-22	15-Jul-22	0%	1	\$42,261	Drew Winder														
P5923P26	Coating of the target nose complete (T1)	01-Aug-22	05-Aug-22	01-Aug-22	05-Aug-22	0%	5	\$8,243	Drew Winder														
P5923P55	Coating of the target nose complete (T2)	21-Oct-22	27-Oct-22	21-Oct-22	27-Oct-22	0%	5	\$8,422	Drew Winder														
P5923P60	Coating of the target nose complete (T3)	17-Feb-23	23-Feb-23	22-Dec-22	06-Jan-23	0%	5	\$8,422	Drew Winder														
<b>P05.09.02.03.03.01 Target Module</b>		06-Jul-20 A	24-Feb-23	06-Jul-20	09-Jan-23		428	\$5,348,011															
P5923P360	Procurement Readiness Review (PRR) for 3 Target Modules	06-Jul-20 A	10-Jul-20 A	06-Jul-20	10-Jul-20	100%	0	\$0	Drew Winder														
P5923MS135	Technical Package to Procurement for 3 Target Modules		10-Jul-20 A		10-Jul-20	100%	0	\$0	Drew Winder														
P5923P365	Procurement Review and Bid for 3 Target Modules	13-Jul-20 A	24-Jul-20 A	13-Jul-20	24-Jul-20	100%	0	\$0	Drew Winder														







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P593D11	Finalize jumper design	17-Nov-20 A	05-Feb-21 A	17-Nov-20	23-Nov-20	100%	0	\$5,433	Drew Winder															
P593D55	Design Bubbler Leak Fixture	24-Nov-20 A	01-Feb-21 A	24-Nov-20	16-Dec-20	100%	0	\$3,617	Drew Winder															
P593D60	Design Orbital Weld Fixture	01-Jun-21	21-Jun-21	24-Nov-20	16-Dec-20	0%	15	\$3,670	Drew Winder															
<b>P05.09.03.03 Procure/Fab - Supporting Hardware</b>		<b>08-Feb-21 A</b>	<b>11-Nov-21</b>	<b>24-Nov-20</b>	<b>24-May-21</b>		<b>116</b>	<b>\$25,385</b>																
P593P40	Fabricate Bubbler Leak Fixture	08-Feb-21 A	19-Feb-21 A	17-Dec-20	13-Jan-21	100%	0	\$4,536	Drew Winder															
P593P16	Procure jumpers	01-Jun-21	21-Jun-21	24-Nov-20	16-Dec-20	0%	15	\$462	Drew Winder															
P593P21	Fabricate jumpers (3)	22-Jun-21	31-Aug-21	17-Dec-20	11-Mar-21	0%	50	\$0	Drew Winder															
P593P45	Fabricate Orbital Weld Fixture	22-Jun-21	06-Jul-21	17-Dec-20	13-Jan-21	0%	10	\$4,536	Drew Winder															
P5923MS20	Fabrication of jumpers Complete		31-Aug-21		11-Mar-21	0%	0	\$0	Drew Winder															
P593P26	Fabricate spare jumpers (3)	01-Sep-21	10-Nov-21	12-Mar-21	21-May-21	0%	50	\$0	Drew Winder															
P593P31	Receive jumpers (3)	01-Sep-21	01-Sep-21	12-Mar-21	12-Mar-21	0%	1	\$7,814	Drew Winder															
P5923MS25	Fabrication of spare jumpers Complete		10-Nov-21		21-May-21	0%	0	\$0	Drew Winder															
P593P36	Receive spare jumpers (3)	11-Nov-21	11-Nov-21	24-May-21	24-May-21	0%	1	\$8,039	Drew Winder															
<b>P05.09.04 PPU Test Target</b>		<b>05-Mar-19 A</b>	<b>19-Sep-22</b>	<b>05-Mar-19</b>	<b>16-Aug-22</b>		<b>324</b>	<b>\$3,835,071</b>																
<b>P05.09.04.02 Design - PPU Test Target</b>		<b>05-Mar-19 A</b>	<b>19-Sep-22</b>	<b>05-Mar-19</b>	<b>16-Aug-22</b>		<b>324</b>	<b>\$3,835,071</b>																
P5942D90	PPU Test Target Final Design	05-Mar-19 A	31-Mar-19 A	05-Mar-19	31-Mar-19	100%	0	\$0	Drew Winder															
P5942D115b	PPU Test Target Final Design Continued	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Drew Winder															
P5942D115c	PPU Test Target Final Design (Sept 19 only)	03-Sep-19 A	07-Oct-19 A	03-Sep-19	07-Oct-19	100%	0	\$0	Drew Winder															
<b>P05.09.04.02.01 Test Target 1</b>		<b>12-Aug-19 A</b>	<b>29-Mar-22</b>	<b>12-Aug-19</b>	<b>29-Mar-22</b>		<b>204</b>	<b>\$1,286,568</b>																
P5942D95	PPU Test Target 1 Final Review	25-Sep-19 A	28-Sep-19 A	25-Sep-19	28-Sep-19	100%	0	\$0	Drew Winder															
P5942D80	Procurement Readiness Review (PRR) for PPU Test Target 1 Assembly	07-Oct-19 A	07-Oct-19 A	07-Oct-19	07-Oct-19	100%	0	\$0	Drew Winder															
P5942D100	PPU Test Target 1 Module Design Change Notice	08-Oct-19 A	09-Oct-19 A	08-Oct-19	09-Oct-19	100%	0	\$0	Drew Winder															
P5942D105	PPU Test Target 1 Module Design Closeout	11-Nov-19 A	28-Feb-20 A	11-Nov-19	28-Feb-20	100%	0	\$0	Drew Winder															
P5942D325a	Manufacturing specification and SOW writing (LOE) (FY20)	10-Dec-19 A	31-Mar-20 A	10-Dec-19	31-Mar-20	100%	0	\$0	Drew Winder															
P5942D25	Procure inflatable seal for PPU Test Target 1 Module	06-Jan-20 A	16-Jan-20 A	06-Jan-20	16-Jan-20	100%	0	\$0	Drew Winder															
P5942D40	Fabricate inflatable seal for PPU Test Target 1 Assembly	16-Jan-20 A	04-Jun-20 A	16-Jan-20	04-Jun-20	100%	0	\$0	Drew Winder															
P5942D20	Procure leak detector for PPU Test Target 1 Module	03-Feb-20 A	21-Feb-20 A	03-Feb-20	21-Feb-20	100%	0	\$0	Drew Winder															
P5942D35	Fabricate leak detector for PPU Test Target 1 Assembly	24-Feb-20 A	02-Jun-20 A	24-Feb-20	02-Jun-20	100%	0	\$0	Drew Winder															
P5942D325b	Manufacturing specification and SOW writing (LOE) (FY20) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Drew Winder															
P5942D330	Fabrication of leak detector for PPU Test Target 1 Module Complete		02-Jun-20 A		02-Jun-20	100%	0	\$0	Drew Winder															
P5942D705	Receive leak detector for PPU Test Target 1 Assembly	02-Jun-20 A	02-Jun-20 A	02-Jun-20	02-Jun-20	100%	0	\$0	Drew Winder															
P5942D335	Fabrication of inflatable seal for PPU Test Target 1 Module Complete		04-Jun-20 A		04-Jun-20	100%	0	\$0	Drew Winder															
P5942D695	Receive inflatable seal for PPU Test Target 1 Assembly	05-Jun-20 A	05-Jun-20 A	05-Jun-20	05-Jun-20	100%	0	\$0	Drew Winder															







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5942D650	Fabrication of leak detector for PPU Test Target 2 Module Complete		19-Apr-21 A		24-Mar-21	100%	0	\$0	Drew Winder															
P5942D640	Fabrication of inflatable seal for PPU Test Target 2 Module Complete		19-Apr-21 A		19-Jan-21	100%	0	\$0	Drew Winder															
P5942D755	Weld Development EB Welds	21-May-21 A	15-Jul-21	27-May-21	25-Jun-21	40%	32	\$0	Drew Winder															
P5942D660	Procure contract for coating PPU Test Target 2 Module nose	01-Jun-21	21-Jun-21	01-Feb-21	19-Feb-21	0%	15	\$462	Drew Winder															
P5942D665	Coating of the PPU Test Target 2 Module nose complete	22-Jun-21	28-Jun-21	22-Feb-21	26-Feb-21	0%	5	\$8,014	Drew Winder															
P5942D750	Receive Development Article Fabrication	22-Jun-21	22-Jun-21	26-May-21	26-May-21	0%	1	\$31,200	Drew Winder															
P5942D760	Receive Weld Development EB Welds	16-Jul-21	16-Jul-21	28-Jun-21	28-Jun-21	0%	1	\$45,900	Drew Winder															
P5942D765	Weld Development Testing	19-Jul-21	16-Aug-21	29-Jun-21	28-Jul-21	0%	21	\$0	Drew Winder															
P5942D770	Receive Weld Development Testing	17-Aug-21	17-Aug-21	29-Jul-21	29-Jul-21	0%	1	\$25,500	Drew Winder															
P5942D625	Procure target module sensors for PPU Test Target 2 Module	23-May-22	13-Jun-22	22-Mar-22	11-Apr-22	0%	15	\$481	Drew Winder															
P5942D635	Fabricate target module sensors for PPU Test Target 2 Assembly	14-Jun-22	02-Aug-22	12-Apr-22	01-Jun-22	0%	35	\$0	Drew Winder															
P5942D645	Receive target module sensors for PPU Test Target 2 Module	03-Aug-22	03-Aug-22	02-Jun-22	02-Jun-22	0%	1	\$16,905	Drew Winder															
P5942D655	Install target module sensors on PPU Test Target 2	04-Aug-22	24-Aug-22	03-Jun-22	23-Jun-22	0%	15	\$21,172	Drew Winder															
P5942D675	Prepare PPU Test Target 2 for installation on carriage	25-Aug-22	08-Sep-22	24-Jun-22	08-Jul-22	0%	10	\$25,969	Drew Winder															
P5942D680	Install PPU Test Target 2 module on target carriage	09-Sep-22	19-Sep-22	08-Aug-22	16-Aug-22	0%	7	\$37,831	Drew Winder															
<b>P05.09.04.02.02 Target Assembly Test Target 2</b>		07-Jul-20 A	24-Aug-22	07-Jul-20	23-Jun-22		307	\$2,235,251																
P5942MS155	Technical Package to Procurement for PPU Test Target 2		07-Jul-20 A		07-Jul-20	100%	0	\$0	Drew Winder															
P5942D495	Procurement Review and Bid for PPU Test Target 2	08-Jul-20 A	09-Jul-20 A	08-Jul-20	09-Jul-20	100%	0	\$0	Drew Winder															
P5942MS160	Issue RFP for PPU Test Target 2		09-Jul-20 A		09-Jul-20	100%	0	\$0	Drew Winder															
P5942D500	Solicitation Period for PPU Test Target 2	24-Jul-20 A	21-Aug-20 A	24-Jul-20	21-Aug-20	100%	0	\$0	Drew Winder															
P5942MS165	Solicitation Complete for PPU Test Target 2		21-Aug-20 A		21-Aug-20	100%	0	\$0	Drew Winder															
P5942D490	Review and Award Contract for PPU Test Target 2	24-Aug-20 A	16-Sep-20 A	24-Aug-20	16-Sep-20	100%	0	\$0	Drew Winder															
P5942D505	Award contract for PPU Test Target 2		16-Sep-20 A		16-Sep-20	100%	0	\$0	Drew Winder															
P5942D550	Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material	17-Sep-20 A	15-Mar-21 A	17-Sep-20	11-Dec-20	100%	0	\$0	Drew Winder															
P5942MS200	MS payment: Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material	16-Mar-21 A	16-Mar-21 A	14-Dec-20	14-Dec-20	100%	0	\$424,211	Drew Winder															
P5942D720	Successful comp of A228-I Center Front Sleeve	17-Mar-21 A	16-Sep-21	15-Dec-20	16-Jul-21	0%	76	\$0	Drew Winder															
P5942MS205	MS payment: Successful comp of A228-I Center Front Sleeve	17-Sep-21	17-Sep-21	19-Jul-21	19-Jul-21	0%	1	\$424,211	Drew Winder															
P5942D725	Receipt (Seller) of all Purchased items for NRE & Successful comp of all pre-weld fab (except A915)	20-Sep-21	08-Dec-21	20-Jul-21	06-Oct-21	0%	56	\$0	Drew Winder															
P5942D730	Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (except A915)	20-Sep-21	08-Dec-21	20-Jul-21	06-Oct-21	0%	56	\$0	Drew Winder															
P5942MS210	MS payment: Receipt (Seller) of all Purchased items for NRE & Successful comp of all pre-weld fab (except A915)	09-Dec-21	09-Dec-21	07-Oct-21	07-Oct-21	0%	1	\$269,204	Drew Winder															
P5942MS215	MS payment: Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (except A915)	09-Dec-21	09-Dec-21	07-Oct-21	07-Oct-21	0%	1	\$424,211	Drew Winder															
P5942D735	Successful Compl of delivery & Company acceptance of all components & Final Documentation	10-Dec-21	23-Aug-22	08-Oct-21	22-Jun-22	0%	172	\$0	Drew Winder															
P5942MS220	MS payment: Successful Compl of delivery & Company acceptance of all components & Final Documentation	24-Aug-22	24-Aug-22	23-Jun-22	23-Jun-22	0%	1	\$693,415	Drew Winder															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P05.09.04.02.02.03 Swirl Bubbler Test Target 2		01-Sep-20 A	20-Jul-21	01-Sep-20	25-May-21		35	\$44,826																
P5942D570	Procure swirl bubbler for PPU Test Target 2	01-Sep-20 A	16-Sep-20 A	01-Sep-20	16-Sep-20	100%	0	\$0	Drew Winder															
P5942D575	Fabricate swirl bubbler for PPU Test Target 2	02-Nov-20 A	31-May-21 A	02-Nov-20	03-May-21	100%	0	\$0	Drew Winder															
P5942D580	Receive swirl bubbler test article for PPU Test Target 2	31-May-21 A	31-May-21 A	04-May-21	04-May-21	100%	0	\$38,480	Drew Winder															
P5924D585	Bubbler Dimensional Inspection - Test Target 2	31-May-21 A	10-Jun-21	05-May-21	11-May-21	70%	8	\$5,505	Drew Winder															
P5924D590	Plug Weld and Orbital Weld - Test Target 2	07-Jul-21	13-Jul-21	12-May-21	18-May-21	0%	5	\$454	Drew Winder															
P5924D595	Bubbler Weld Inspection - Test Target 2	14-Jul-21	20-Jul-21	19-May-21	25-May-21	0%	5	\$388	Drew Winder															
P05.10 Safety, Controls and Operations		03-Oct-16 A	25-Sep-23	03-Oct-16	25-Sep-23		574	\$2,495,769																
P05.10.01 Management and System Integration		03-Oct-16 A	25-Sep-23	03-Oct-16	25-Sep-23		574	\$101,164																
P05.10.01.01 Management and System Integration - Safety, Controls and Operations		03-Oct-16 A	25-Sep-23	03-Oct-16	25-Sep-23		574	\$101,164																
P5101M1	WBS Management P.5.10 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Charlotte Barbier															
P5101M35	WBS Management P.5.10 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Charlotte Barbier															
P5101M6	WBS Management P.5.10 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Charlotte Barbier															
P5101M11	WBS Management P.5.10 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier															
P5101M11b	WBS Management P.5.10 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
P5101M11c	WBS Management P.5.10 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Charlotte Barbier															
P5101M16a	WBS Management P.5.10 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Charlotte Barbier															
P5101M16b	WBS Management P.5.10 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Charlotte Barbier															
P5101M21a	WBS Management P.5.10 FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Charlotte Barbier															
P5101M21b	WBS Management P.5.10 FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$25,797	Charlotte Barbier															
P5101M26	WBS Management P.5.10 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$29,295	Charlotte Barbier															
P5101M31	WBS Management P.5.10 FY23 (LOE)	03-Oct-22	19-Sep-23	03-Oct-22	19-Sep-23	0%	237	\$30,454	Charlotte Barbier															
P510PB1	P.05.10 Extended Outage Pre Beam ARR Documetation Complete	20-Jun-23	26-Jun-23	20-Jun-23	26-Jun-23	0%	5	\$7,809	Charlotte Barbier															
P510IT2	P.05.10 Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Charlotte Barbier															
P510DOC2	P.05.10 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$7,809	Charlotte Barbier															
P05.10.02 System Integration for Safety Authorization		01-Jun-18 A	07-Aug-23	01-Jun-18	07-Aug-23		336	\$85,678																
P05.10.02.02 Design - System Integration for Safety Authorization		01-Jun-18 A	07-Aug-23	01-Jun-18	07-Aug-23		336	\$85,678																
P5102D95	Perform CFD simulations to support PDR up to CD2 review (Jun through Sep)	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	\$0	Charlotte Barbier															
P5102D105	Preparation of the Safety&Operation Assessment for the IDR1 (Jun through Sep)	05-Jul-18 A	28-Sep-18 A	05-Jul-18	28-Sep-18	100%	0	\$0	Charlotte Barbier															
P5102D140	Determine availability in current FTS for potential additional sensors related to PPU FTS upgrades (Jun through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Charlotte Barbier															
P5102D145	Perform CFD simulations to support PDR up to CD2 review (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier															
P5102D150	Preparation of the Safety&Operation Assessment for the IDR1 (Oct through Remain)	01-Oct-18 A	27-Feb-19 A	01-Oct-18	27-Feb-19	100%	0	\$0	Charlotte Barbier															
P5102D155	Determine availability in current FTS for potential additional sensors related to PPU FTS upgrades (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016 - FY2028																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5102D51	Internal Preliminary Design Review (IDR1) for Safety, Controls, & Ops	25-Feb-19 A	01-Mar-19 A	25-Feb-19	01-Mar-19	100%	0	\$0	Charlotte Barbier																												
P5102MS001	Internal Design Review Phase 1 (IDR1) Complete		01-Mar-19 A		01-Mar-19	100%	0	\$0	Charlotte Barbier																												
P5102D56	Respond to the IDR1 recommendations	01-Apr-19 A	05-Apr-19 A	01-Apr-19	05-Apr-19	100%	0	\$0	Charlotte Barbier																												
P5102D145b	Perform CFD simulations to support PDR up to CD2 review Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Charlotte Barbier																												
P5102D155b	Determine availability in current FTS for potential additional sensors related to PPU FTS upgrades Continued	01-Apr-19 A	09-May-19 A	01-Apr-19	09-May-19	100%	0	\$0	Charlotte Barbier																												
P5102D46	Brief DOE on IDR1 outcome	08-Apr-19 A	12-Apr-19 A	08-Apr-19	12-Apr-19	100%	0	\$0	Charlotte Barbier																												
P5102D1	Safety & Operation Assessment in preparation of the CD2 System Review	03-Jun-19 A	30-Aug-19 A	03-Jun-19	30-Aug-19	100%	0	\$0	Charlotte Barbier																												
P5102D100a1	Perform CFD simulations on gas accumulation in HX for Off-normal preparation	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Charlotte Barbier																												
P5102D160	Procure and receive Fluent+HPC pack license 1 year lease	01-Aug-19 A	21-Aug-19 A	01-Aug-19	21-Aug-19	100%	0	\$0	Charlotte Barbier																												
P5102D100a2	Perform CFD simulations on gas accumulation in HX for Off-normal preparation (Continued)	03-Sep-19 A	29-Oct-19 A	03-Sep-19	29-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5102D145c	Perform CFD simulations to support PDR up to CD2 review (Sept 19 only)	03-Sep-19 A	27-Sep-19 A	03-Sep-19	27-Sep-19	100%	0	\$0	Charlotte Barbier																												
P5102D1b	Safety & Operation Assessment in preparation of the CD2 System Review (Sept 19 only)	03-Sep-19 A	12-Sep-19 A	03-Sep-19	12-Sep-19	100%	0	\$0	Charlotte Barbier																												
P5102D110	Review and improvement of Safety & Operation Assessment in preparation preliminary design review	13-Sep-19 A	14-Oct-19 A	13-Sep-19	14-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5102D125	Preparation for the Off-Normal analysis - update of the Process Flow Diagram	15-Oct-19 A	22-Nov-19 A	15-Oct-19	22-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5102D100b	Perform CFD simulations on gas accumulation in the piping using a discrete phase model	30-Oct-19 A	06-Dec-19 A	30-Oct-19	06-Dec-19	100%	0	\$0	Charlotte Barbier																												
P5102D165	Preparation for the Off-Normal analysis - update of the interlocks and alarms	26-Nov-19 A	21-Jan-20 A	26-Nov-19	21-Jan-20	100%	0	\$0	Charlotte Barbier																												
P5102D185	Perform CFD simulations on gas accumulation in the piping using a Euler-Euler phase model	09-Dec-19 A	27-Jan-20 A	09-Dec-19	27-Jan-20	100%	0	\$0	Charlotte Barbier																												
P5102D190a	Perform CFD simulations on gas accumulation on a simplified HX using a Euler-Euler phase model	28-Jan-20 A	31-Mar-20 A	28-Jan-20	31-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5102D170	Preparation for the Off-Normal analysis - update of the safety analysis for the OFT	03-Feb-20 A	21-Feb-20 A	03-Feb-20	21-Feb-20	100%	0	\$0	Charlotte Barbier																												
P5102D175a	Preparation for the Off-Normal analysis - update of the PCD	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5102D195	Perform CFD simulations on gas accum: compile results & compare w SNS experience w gas injection over prior 3 yrs	26-Feb-20 A	27-Mar-20 A	26-Feb-20	27-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5102D190b	Perform CFD simulations on gas accumulation on a simplified HX using a Euler-Euler phase model continued	01-Apr-20 A	29-Apr-20 A	01-Apr-20	29-Apr-20	100%	0	\$0	Charlotte Barbier																												
P5102D175b	Preparation for the Off-Normal analysis - update of the PCD continued	01-Apr-20 A	29-Apr-20 A	01-Apr-20	29-Apr-20	100%	0	\$0	Charlotte Barbier																												
P5102D100c	Perform CFD simulations for the GLS	30-Apr-20 A	28-May-20 A	30-Apr-20	28-May-20	100%	0	\$0	Charlotte Barbier																												
P5102D180	Preparation for the Off-Normal analysis - preparation of the review	30-Apr-20 A	20-May-20 A	30-Apr-20	20-May-20	100%	0	\$0	Charlotte Barbier																												
P5102D120	Preparation of the Safety & Operation Assessment of the FTS Preliminary Design for CD2/3 review	01-Jun-20 A	30-Jun-20 A	01-Jun-20	30-Jun-20	100%	0	\$0	Charlotte Barbier																												
P5102D200	Based on CFD work, estimate gas accumulation in the hg process loop with the presence of the GLS	01-Jun-20 A	26-Jun-20 A	01-Jun-20	26-Jun-20	100%	0	\$0	Charlotte Barbier																												
P5102D205	Compile all the CFD results for the multiphase flow in the process loop into a technical report	29-Jun-20 A	30-Jul-20 A	29-Jun-20	30-Jul-20	100%	0	\$0	Charlotte Barbier																												
P5102D100d	Compile a report with all the results	31-Jul-20 A	10-Sep-20 A	31-Jul-20	10-Sep-20	100%	0	\$0	Charlotte Barbier																												
P5102D61	Off normal analysis	28-Oct-20 A	29-Oct-20 A	28-Oct-20	29-Oct-20	100%	0	\$0	Charlotte Barbier																												
P5102MS1	Off normal analysis Complete		30-Oct-20 A		30-Oct-20	100%	0	\$0	Charlotte Barbier																												
P5102D66	Respond to the off normal analysis	02-Nov-20 A	06-Nov-20 A	02-Nov-20	06-Nov-20	100%	0	\$8,582	Charlotte Barbier																												
P5102D41	Brief DOE on off normal analysis outcome	09-Nov-20 A	13-Nov-20 A	09-Nov-20	13-Nov-20	100%	0	\$6,971	Charlotte Barbier																												



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5102D71	Develop a commissioning plan and get it approved	30-Mar-22	23-Jun-22	30-Mar-22	23-Jun-22	0%	60	\$30,046	Charlotte Barbier														
P5102D76	Receive approval to proceed with installation of ortho/para converters and vessel	03-Jan-23	31-Jan-23	03-Jan-23	31-Jan-23	0%	20	\$11,509	Charlotte Barbier														
P5102D81	Receive approval to proceed with installation of ortho/para converters diagnostics	15-Feb-23	14-Mar-23	15-Feb-23	14-Mar-23	0%	20	\$11,509	Charlotte Barbier														
P5102D91	Prepare for approval to test target without beam	11-Jul-23	07-Aug-23	11-Jul-23	07-Aug-23	0%	20	\$17,060	Charlotte Barbier														
P05.10.03 Controls Integration		03-Feb-20 A	19-Jun-23	03-Feb-20	19-Jun-23		507	\$2,173,108															
P05.10.03.02 Design - Controls Integration		03-Feb-20 A	31-Aug-22	03-Feb-20	31-Aug-22		312	\$1,060,112															
P5103D86a	Update controls documentation related to MOTS upgrade (delay bed+cold trap)	03-Feb-20 A	31-Mar-20 A	03-Feb-20	31-Mar-20	100%	0	\$0	Charlotte Barbier														
P5103D116	Update controls documentation related to the 2MW target	02-Nov-20 A	02-Jun-21	02-Nov-20	10-Feb-21	68%	2	\$24,019	Charlotte Barbier														
P05.10.03.02.01 Gas Recirculation		01-Jun-20 A	20-May-22	01-Jun-20	09-Jun-22		241	\$438,302															
P5103D190	Phase 2 Schematic DesignPart 1 - Gas Recirculation	01-Jun-20 A	26-Aug-20 A	01-Jun-20	26-Aug-20	100%	0	\$0	Charlotte Barbier														
P5103D215a	Phase 2 Schematic DesignPart 2 - Gas Recirculation	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Charlotte Barbier														
P5103D215b	Phase 2 Schematic DesignPart 2 - Gas Recirculation Continued	02-Nov-20 A	26-Feb-21 A	02-Nov-20	30-Nov-20	100%	0	\$35,260	Charlotte Barbier														
P5103D240	Phase 2 PLC Config. & Programming Design - Gas Recirculation	04-Jan-21 A	28-Jun-21	01-Dec-20	11-Mar-21	15%	20	\$82,859	Charlotte Barbier														
P5103D255	Phase 3 Schematic Design - Gas Recirculation	29-Jun-21	24-Sep-21	12-Mar-21	09-Jun-21	0%	62	\$58,357	Charlotte Barbier														
P5103D216	Phase 2 Schematic Design - Mol Sieve GR	13-Jul-21*	23-Aug-21	13-Jul-21	23-Aug-21	0%	30	\$28,361	Charlotte Barbier														
P5103D241	Phase 2 PLC Config. & Programming Design - GR	15-Sep-21	29-Nov-21	04-Oct-21	16-Dec-21	0%	52	\$32,635	Charlotte Barbier														
P5103D242	Phase 2 PLC Config. & Programming Design - Mol Sieve	30-Nov-21	11-Feb-22	17-Dec-21	02-Mar-22	0%	46	\$32,850	Charlotte Barbier														
P5103D256	Phase 3 Schematic Design - GR+MS	30-Nov-21	24-Feb-22	17-Dec-21	15-Mar-22	0%	55	\$49,770	Charlotte Barbier														
P5103D260	Phase 3 Config. & Programming Design - Gas Recirculation	25-Feb-22	18-Apr-22	16-Mar-22	05-May-22	0%	36	\$29,712	Charlotte Barbier														
P5103D265	Phase 3 EPICS Design Development - Gas Recirculation	25-Feb-22*	20-May-22	16-Mar-22	09-Jun-22	0%	60	\$88,497	Charlotte Barbier														
P05.10.03.02.02 Hydrogen Refill System		16-Jul-20 A	03-Feb-22	16-Jul-20	08-Nov-21		166	\$87,838															
P5103D205a	Phase 2 Schematic Design - HRS	16-Jul-20 A	30-Oct-20 A	16-Jul-20	30-Oct-20	100%	0	\$0	Charlotte Barbier														
P5103D205b	Phase 2 Schematic Design - HRS Continued	02-Nov-20 A	01-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$1,555	Charlotte Barbier														
P5103D210	Phase 2 PLC Config. & Programming Design - HRS	23-Nov-20 A	14-Jun-21	23-Nov-20	29-Jan-21	54%	10	\$23,753	Charlotte Barbier														
P5103D225	Phase 3 Schematic Design - HRS	15-Mar-21 A	18-Jun-21	15-Apr-21	24-Jun-21	91%	14	\$17,017	Charlotte Barbier														
P5103D220	Phase 2 HMI Design - HRS	15-Jun-21	26-Aug-21	01-Feb-21	14-Apr-21	0%	52	\$27,795	Charlotte Barbier														
P5103D245	Phase 3 Config. & Programming Design - HRS	10-Sep-21*	15-Nov-21	25-Jun-21	31-Aug-21	0%	47	\$8,080	Charlotte Barbier														
P5103D250	Phase 3 HMI Design - HRS	16-Nov-21	03-Feb-22	01-Sep-21	08-Nov-21	0%	48	\$9,638	Charlotte Barbier														
P05.10.03.02.03 MOTS		01-Jun-21	31-Aug-22	02-Nov-20	31-Aug-22		312	\$387,312															
P5103D120	Phase 2 Schematic Design - MOTS	01-Jun-21	30-Jul-21	02-Nov-20	15-Jan-21	0%	43	\$80,086	Charlotte Barbier														
P5103D185	Phase 2 PLC Config. & Programming Design - MOTS	02-Aug-21	22-Sep-21	19-Jan-21	10-Mar-21	0%	37	\$60,660	Charlotte Barbier														
P5103D121	Phase 2 Schematic Design - MOTS - IO Design	24-Aug-21*	16-Nov-21	24-Aug-21	16-Nov-21	0%	60	\$37,483	Charlotte Barbier														
P5103D230	Phase 3 Schematic Design - MOTS	23-Sep-21	30-Sep-21	11-Mar-21	18-Mar-21	0%	6	\$15,537	Charlotte Barbier														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5103D235	Phase 3 Config. & Programming Design - MOTS	01-Oct-21	19-Oct-21	19-Mar-21	07-Apr-21	0%	13	\$22,052	Charlotte Barbier														
P5103D122	Phase 2 Schematic Design - MOTS - Instrumentation Configuration	17-Nov-21	22-Dec-21	17-Nov-21	22-Dec-21	0%	24	\$24,398	Charlotte Barbier														
P5103D231	Phase 3 Schematic Design - MOTS with MS	03-Jan-22	14-Feb-22	03-Jan-22	14-Feb-22	0%	30	\$29,389	Charlotte Barbier														
P5103D186	Phase 2 PLC Config. & Programming Design - MOTS - IO Programming Setup	03-Jan-22	28-Mar-22	03-Jan-22	28-Mar-22	0%	60	\$36,061	Charlotte Barbier														
P5103D187	Phase 2 PLC Config. & Programming Design - MOTS - IO Programming Setup	29-Mar-22	27-Apr-22	29-Mar-22	27-Apr-22	0%	21	\$20,704	Charlotte Barbier														
P5103D236	PhasePhase 3 Config. & Programming Design - MOTS	28-Apr-22	07-Jun-22	28-Apr-22	07-Jun-22	0%	28	\$15,039	Charlotte Barbier														
P5103D270	Phase 3 EPICS Design Development - MOTS	08-Jun-22	31-Aug-22	08-Jun-22	31-Aug-22	0%	60	\$45,903	Charlotte Barbier														
<b>P05.10.03.02.04 Mercury Process System</b>		<b>01-Jun-21</b>	<b>11-Jun-21</b>	<b>15-Jul-21</b>	<b>27-Jul-21</b>		<b>9</b>	<b>\$12,938</b>															
P5103D125	Phase 2 Schematic Design - MPS	01-Jun-21	03-Jun-21	15-Jul-21	19-Jul-21	0%	3	\$5,603	Charlotte Barbier														
P5103D140	Phase 2 PLC Config. & Programming Design - MPS	04-Jun-21	07-Jun-21	20-Jul-21	21-Jul-21	0%	2	\$2,456	Charlotte Barbier														
P5103D145	Phase 3 Schematic Design - MPS	08-Jun-21	08-Jun-21	22-Jul-21	22-Jul-21	0%	1	\$1,143	Charlotte Barbier														
P5103D150	Phase 3 Config. & Programming Design - MPS	09-Jun-21	09-Jun-21	23-Jul-21	23-Jul-21	0%	1	\$1,225	Charlotte Barbier														
P5103D275	Phase 3 EPICS Design Development - MPS	10-Jun-21	11-Jun-21	26-Jul-21	27-Jul-21	0%	2	\$2,512	Charlotte Barbier														
<b>P05.10.03.02.05 Gas Panel</b>		<b>08-Mar-21 A</b>	<b>04-Aug-21</b>	<b>11-Jan-21</b>	<b>16-Apr-21</b>		<b>46</b>	<b>\$50,319</b>															
P5103D155	Phase 2 PLC Config. & Programming Design - Gas Panel 10	08-Mar-21 A	22-Jun-21	11-Feb-21	04-Mar-21	5%	16	\$9,948	Charlotte Barbier														
P5103D130	Phase 2 Schematic Design - Gas Panel 10	16-Apr-21 A	11-Jun-21	11-Jan-21	10-Feb-21	89%	9	\$18,249	Charlotte Barbier														
P5103D165	Phase 3 Schematic Design - Gas Panel 10	23-Jun-21*	07-Jul-21	05-Mar-21	18-Mar-21	0%	10	\$7,880	Charlotte Barbier														
P5103D175	Phase 3 Config. & Programming Design - Gas Panel 10	08-Jul-21	15-Jul-21	19-Mar-21	26-Mar-21	0%	6	\$3,718	Charlotte Barbier														
P5103D280	Phase 3 EPICS Design Development - Gas Panel 10	16-Jul-21	04-Aug-21	29-Mar-21	16-Apr-21	0%	14	\$10,523	Charlotte Barbier														
<b>P05.10.03.02.06 Catalyst</b>		<b>01-Jun-21</b>	<b>01-Sep-21</b>	<b>19-Jan-21</b>	<b>21-Apr-21</b>		<b>66</b>	<b>\$59,384</b>															
P5103D135	Phase 2 Schematic Design - Catalyst	01-Jun-21	30-Jun-21	19-Jan-21	17-Feb-21	0%	22	\$21,941	Charlotte Barbier														
P5103D160	Phase 2 PLC Config. & Programming Design - Catalyst	01-Jul-21	23-Jul-21	18-Feb-21	11-Mar-21	0%	16	\$14,168	Charlotte Barbier														
P5103D170	Phase 3 Schematic Design - Catalyst	26-Jul-21	02-Aug-21	12-Mar-21	19-Mar-21	0%	6	\$5,602	Charlotte Barbier														
P5103D180	Phase 3 Config. & Programming Design - Catalyst	03-Aug-21	10-Aug-21	22-Mar-21	29-Mar-21	0%	6	\$5,475	Charlotte Barbier														
P5103D285	Phase 3 EPICS Design Development - Catalyst	11-Aug-21	01-Sep-21	30-Mar-21	21-Apr-21	0%	16	\$12,197	Charlotte Barbier														
<b>P05.10.03.03 Procure/Fab - Controls Integration</b>		<b>05-Aug-21</b>	<b>07-Jul-22</b>	<b>19-Apr-21</b>	<b>07-Jul-22</b>		<b>227</b>	<b>\$201,091</b>															
<b>P05.10.03.03.01 Gas Recirculation</b>		<b>25-Feb-22</b>	<b>23-May-22</b>	<b>16-Mar-22</b>	<b>10-Jun-22</b>		<b>61</b>	<b>\$87,279</b>															
P5103P106	Procure control hardware for gas recirculation with gas compressor	25-Feb-22	17-Mar-22	16-Mar-22	05-Apr-22	0%	15	\$96	Charlotte Barbier														
P5103P141	Fabricate control hardware for gas recirculation with gas compressor	18-Mar-22	20-May-22	06-Apr-22	09-Jun-22	0%	45	\$0	Charlotte Barbier														
P5103P176	Receive control hardware for gas recirculation with gas compressor	23-May-22	23-May-22	10-Jun-22	10-Jun-22	0%	1	\$87,183	Charlotte Barbier														
<b>P05.10.03.03.02 Hydrogen Refill System</b>		<b>04-Feb-22</b>	<b>31-May-22</b>	<b>09-Nov-21</b>	<b>15-Mar-22</b>		<b>81</b>	<b>\$47,622</b>															
P5103P010	Procure I&C cabinet construction and components for HRS	04-Feb-22	24-Feb-22	09-Nov-21	01-Dec-21	0%	15	\$481	Charlotte Barbier														
P5103P015	Fabricate I&C cabinet construction and components for HRS	25-Feb-22	27-May-22	02-Dec-21	14-Mar-22	0%	65	\$0	Charlotte Barbier														



May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 10:10												
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5103130	PLC Cabinet Construction - HRS	08-Aug-22	09-Sep-22	08-Aug-22	09-Sep-22	0%	24	\$34,005	Charlotte Barbier														
P5103135	PLC Simulation Test - HRS	12-Sep-22	19-Sep-22	12-Sep-22	19-Sep-22	0%	6	\$8,252	Charlotte Barbier														
P51031010	PLC Cabinet & Cable Placement for HRS	01-Feb-23	08-Feb-23	01-Feb-23	08-Feb-23	0%	6	\$7,913	Charlotte Barbier														
P51031015	Setup and Loop Check - HRS	09-Feb-23	13-Feb-23	09-Feb-23	13-Feb-23	0%	3	\$5,183	Charlotte Barbier														
P51031140	Programming Functionality - HRS	14-Feb-23	20-Feb-23	14-Feb-23	20-Feb-23	0%	5	\$6,458	Charlotte Barbier														
P51031020	EPICS Interface - HRS	21-Feb-23	02-Mar-23	21-Feb-23	02-Mar-23	0%	8	\$12,928	Charlotte Barbier														
P51031025	Final PLC Documentation & Closeout - HRS	03-Mar-23	08-Mar-23	03-Mar-23	08-Mar-23	0%	4	\$5,061	Charlotte Barbier														
P05.10.03.04.03 MOTS		05-May-22	12-Jun-23	12-Sep-22	12-Jun-23		273	\$262,688															
P51031301	PLC Cabinet Construction - MOTS	05-May-22	21-Jun-22	12-Sep-22	26-Oct-22	0%	33	\$66,822	Charlotte Barbier														
P51031315	PLC Simulation Test - MOTS	06-Mar-23	27-Mar-23	06-Mar-23	17-Mar-23	0%	16	\$37,703	Charlotte Barbier														
P51031215	PLC Cabinet & Cable Placement for MOTS	28-Mar-23	03-Apr-23	20-Mar-23	10-Apr-23	0%	5	\$26,098	Charlotte Barbier														
P51031265	Setup and Loop Check - MOTS	04-Apr-23	13-Apr-23	11-Apr-23	24-Apr-23	0%	7	\$20,356	Charlotte Barbier														
P51031290	Programming Functionality - MOTS	14-Apr-23	28-Apr-23	25-Apr-23	01-May-23	0%	11	\$31,085	Charlotte Barbier														
P51031305	EPICS Interface - MOTS	01-May-23	22-May-23	02-May-23	19-May-23	0%	16	\$60,430	Charlotte Barbier														
P51031310	Final PLC Documentation & Closeout - MOTS	23-May-23	12-Jun-23	22-May-23	12-Jun-23	0%	14	\$20,195	Charlotte Barbier														
P05.10.03.04.04 Mercury Process System		22-Feb-23	02-Mar-23	22-Feb-23	02-Mar-23		7	\$10,165															
P51031320	PLC Cabinet Construction - MPS	22-Feb-23	22-Feb-23	22-Feb-23	22-Feb-23	0%	1	\$2,090	Charlotte Barbier														
P51031200	PLC Simulation Test - MPS	23-Feb-23	23-Feb-23	23-Feb-23	23-Feb-23	0%	1	\$1,739	Charlotte Barbier														
P51031220	PLC Cabinet & Cable Placement for MPS	24-Feb-23	24-Feb-23	24-Feb-23	24-Feb-23	0%	1	\$1,279	Charlotte Barbier														
P51031235	Setup and Loop Check - MPS	27-Feb-23	27-Feb-23	27-Feb-23	27-Feb-23	0%	1	\$993	Charlotte Barbier														
P51031240	Programming Functionality - MPS	28-Feb-23	28-Feb-23	28-Feb-23	28-Feb-23	0%	1	\$1,492	Charlotte Barbier														
P51031245	EPICS Interface - MPS	01-Mar-23	01-Mar-23	01-Mar-23	01-Mar-23	0%	1	\$1,690	Charlotte Barbier														
P51031260	Final PLC Documentation & Closeout - MPS	02-Mar-23	02-Mar-23	02-Mar-23	02-Mar-23	0%	1	\$882	Charlotte Barbier														
P05.10.03.04.05 Gas Panel		20-Oct-22	22-Feb-23	24-Oct-22	22-Feb-23		80	\$35,970															
P51031195	PLC Cabinet Construction - Gas Panel 10	20-Oct-22	26-Oct-22	24-Oct-22	28-Oct-22	0%	5	\$7,163	Charlotte Barbier														
P51031205	PLC Simulation Test - Gas Panel 10	27-Oct-22	02-Nov-22	31-Oct-22	04-Nov-22	0%	5	\$7,074	Charlotte Barbier														
P51031225	PLC Cabinet & Cable Placement for Gas Panel 10	01-Feb-23	03-Feb-23	01-Feb-23	03-Feb-23	0%	3	\$4,203	Charlotte Barbier														
P51031250	Setup and Loop Check - Gas Panel 10	06-Feb-23	07-Feb-23	06-Feb-23	07-Feb-23	0%	2	\$2,604	Charlotte Barbier														
P51031270	Programming Functionality - Gas Panel 10	08-Feb-23	14-Feb-23	08-Feb-23	14-Feb-23	0%	5	\$5,837	Charlotte Barbier														
P51031280	EPICS Interface - Gas Panel 10	15-Feb-23	20-Feb-23	15-Feb-23	20-Feb-23	0%	4	\$6,681	Charlotte Barbier														
P51031295	Final PLC Documentation & Closeout - Gas Panel 10	21-Feb-23	22-Feb-23	21-Feb-23	22-Feb-23	0%	2	\$2,408	Charlotte Barbier														
P05.10.03.04.06 Catalyst		22-Feb-23	06-Apr-23	22-Feb-23	06-Apr-23		32	\$56,019															
P51031210	PLC Simulation Test - Catalyst	22-Feb-23	07-Mar-23	22-Feb-23	07-Mar-23	0%	10	\$19,763	Charlotte Barbier														



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Funding Calendar (FY2016-FY2029)																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P51031230	PLC Cabinet & Cable Placement for Catalyst	08-Mar-23	08-Mar-23	08-Mar-23	08-Mar-23	0%	1	\$1,650	Charlotte Barbier	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P51031255	Setup and Loop Check - Catalyst	15-Mar-23	16-Mar-23	15-Mar-23	16-Mar-23	0%	2	\$4,595	Charlotte Barbier																												
P51031275	Programming Functionality - Catalyst	17-Mar-23	29-Mar-23	17-Mar-23	29-Mar-23	0%	9	\$17,906	Charlotte Barbier																												
P51031285	EPICS Interface - Catalyst	30-Mar-23	04-Apr-23	30-Mar-23	04-Apr-23	0%	4	\$8,202	Charlotte Barbier																												
P51031300	Final PLC Documentation & Closeout - Catalyst	05-Apr-23	06-Apr-23	05-Apr-23	06-Apr-23	0%	2	\$3,903	Charlotte Barbier																												
<b>P05.10.04 Operating Procedures and Training</b>		03-May-21 A	10-Jul-23	16-Nov-20	10-Jul-23		140	\$135,818																													
<b>P05.10.04.02 Design - Operating Procedures and Training</b>		03-May-21 A	10-Jul-23	16-Nov-20	10-Jul-23		140	\$135,818																													
P5104D1	Update Neutron OverPower Protections (NOPs) - OLD	03-May-21 A	03-May-21 A	16-Nov-20	12-Jan-21	100%	0	\$25,968	Charlotte Barbier																												
P5104D6	Update Alarm Responses (ARPs) - OLD	03-May-21 A	03-May-21 A	16-Nov-20	12-Jan-21	100%	0	\$25,968	Charlotte Barbier																												
P5104D11	Develop Initial Operation Plans (IOPs) - OLD	03-May-21 A	03-May-21 A	16-Nov-20	12-Jan-21	100%	0	\$25,968	Charlotte Barbier																												
P5104D25	Adjustment activity for P5104D1 via PCR TG-2021-10	04-May-21 A	04-May-21 A	01-Apr-21	01-Apr-21	100%	0	(\$27,360)	Charlotte Barbier																												
P5104D30	Adjustment activity for P5104D6 via PCR TG-2021-10	04-May-21 A	04-May-21 A	01-Apr-21	01-Apr-21	100%	0	(\$27,360)	Charlotte Barbier																												
P5104D35	Adjustment activity for P5104D11 via PCR TG-2021-10	04-May-21 A	04-May-21 A	01-Apr-21	01-Apr-21	100%	0	(\$27,360)	Charlotte Barbier																												
P5104D40	Update Neutron OverPower Protections (NOPs)	09-Dec-22	31-Jan-23	09-Dec-22	31-Jan-23	0%	30	\$27,999	Charlotte Barbier																												
P5104D45	Update Alarm Responses (ARPs)	09-Dec-22	31-Jan-23	09-Dec-22	31-Jan-23	0%	30	\$27,999	Charlotte Barbier																												
P5104D50	Develop Initial Operation Plans (IOPs)	09-Dec-22	31-Jan-23	09-Dec-22	31-Jan-23	0%	30	\$27,999	Charlotte Barbier																												
P5104D16	Training documents preparation	13-Apr-23	24-May-23	13-Apr-23	24-May-23	0%	30	\$27,999	Charlotte Barbier																												
P5104D21	Training	25-May-23	10-Jul-23	25-May-23	10-Jul-23	0%	30	\$27,999	Charlotte Barbier																												
<b>P05.11 Gas Injection Development</b>		03-Sep-19 A	09-Jun-21	03-Sep-19	02-Mar-21		7	\$299,276																													
<b>P05.11.01 Management and System Integration</b>		03-Sep-19 A	01-Jun-21	03-Sep-19	02-Mar-21		1	\$9,089																													
P5111M005	L3 Management FY 19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Charlotte Barbier																												
P5111M010a	L3 Management FY 20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5111MS015	Final geometry and flow conditions for the GLS		03-Feb-20 A		03-Feb-20	100%	0	\$0	Charlotte Barbier																												
P5111M010b	L3 Management FY 20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Charlotte Barbier																												
P5111M10a	L3 Management FY 21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Charlotte Barbier																												
P5111M10b	L3 Management FY 21 (LOE) Continued	02-Nov-20 A	01-Jun-21	02-Nov-20	01-Mar-21	99.27%	1	\$9,089	Charlotte Barbier																												
P5111MS020	Final gas wall nozzle geometry and parameters		15-Mar-21 A		15-Dec-20	100%	0	\$0	Charlotte Barbier																												
P5111MS025	Gas Injection Development Complete		12-Apr-21 A		02-Mar-21	100%	0	\$0	Charlotte Barbier																												
<b>P05.11.02 Gas Injection</b>		03-Sep-19 A	09-Jun-21	03-Sep-19	02-Mar-21		7	\$290,186																													
<b>P05.11.02.02 Design - Gas Injection</b>		03-Sep-19 A	09-Jun-21	03-Sep-19	02-Mar-21		7	\$290,186																													
<b>P05.11.02.02.02 Gas Injection in Water</b>		03-Sep-19 A	15-Mar-21 A	03-Sep-19	18-Dec-20		0	\$2,442																													
P5111D005	Update the CAD drawings for the VT	03-Sep-19 A	15-Oct-19 A	03-Sep-19	15-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D010	Measure BSD in the VT	03-Sep-19 A	15-Oct-19 A	03-Sep-19	15-Oct-19	100%	0	\$0	Charlotte Barbier																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY Budgets																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5111D015	Update the CAD drawings for the Swirl Bubbler	16-Oct-19 A	26-Nov-19 A	16-Oct-19	26-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5111D020	Perform preliminary PIV measurements on the VT	16-Oct-19 A	26-Nov-19 A	16-Oct-19	26-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5111D025	Update the CAD drawings for the Swirl Bubbler	27-Nov-19 A	07-Jan-20 A	27-Nov-19	07-Jan-20	100%	0	\$0	Charlotte Barbier																												
P5111D030a	Perform gas layer experiments	27-Nov-19 A	31-Mar-20 A	27-Nov-19	31-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5111D030b	Perform gas layer experiments continued	01-Jun-20 A	25-Jun-20 A	01-Jun-20	25-Jun-20	100%	0	\$0	Charlotte Barbier																												
P5111D035a	Perform Experiments to support Target Design	26-Jun-20 A	30-Oct-20 A	26-Jun-20	30-Oct-20	100%	0	\$0	Charlotte Barbier																												
P5111D035b	Perform Experiments to support Target Design Continued	02-Nov-20 A	15-Mar-21 A	02-Nov-20	18-Dec-20	100%	0	\$2,442	Charlotte Barbier																												
<b>P05.11.02.02.03 Gas Injection in Mercury</b>		<b>03-Sep-19 A</b>	<b>09-Jun-21</b>	<b>03-Sep-19</b>	<b>10-Feb-21</b>		<b>7</b>	<b>\$262,553</b>																													
P5111D045	Report: write a report on the TTF experiments (compressor, flow sensor, gas injection, GLS) for CD2 (Sept 19 only)	03-Sep-19 A	03-Oct-19 A	03-Sep-19	03-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D050	Design a spacer for the bottom of the GLS	03-Sep-19 A	04-Oct-19 A	03-Sep-19	04-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D055	TTF: Procure and build a gas-liquid separator (Sept 19 only)	03-Sep-19 A	16-Oct-19 A	03-Sep-19	16-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D060	SS blocks for machining the 2MW prototypical target	03-Sep-19 A	01-Oct-19 A	03-Sep-19	01-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D065	Run experiments on the 3 first filters	03-Sep-19 A	15-Oct-19 A	03-Sep-19	15-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D070	Fabricate new piping section of the jet-flow supply for the 2MW prototypical target	02-Oct-19 A	23-Oct-19 A	02-Oct-19	23-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D075	Payment MS: Receipt of SS blocks for machining the 2MW prototypical target	02-Oct-19 A	02-Oct-19 A	02-Oct-19	02-Oct-19	100%	0	\$0	Charlotte Barbier																												
P5111D080	Provide several geometries for CFD analysis	07-Oct-19 A	15-Nov-19 A	07-Oct-19	15-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5111D085	Run experiments on POU-10	16-Oct-19 A	26-Nov-19 A	16-Oct-19	26-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5111D090	TTF: install a gas-liquid separator	17-Oct-19 A	14-Nov-19 A	17-Oct-19	14-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5111D110	Fabricate the acrylic windows of the 2MW prototypical target	24-Oct-19 A	13-Nov-19 A	24-Oct-19	13-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5111D115	TTF: test gas injection strategy on current TTF Target (Sept 19 only)	01-Nov-19 A	15-Nov-19 A	01-Nov-19	15-Nov-19	100%	0	\$0	Charlotte Barbier																												
P5111D120	Fabricate the front body of the 2MW prototypical target	14-Nov-19 A	17-Dec-19 A	14-Nov-19	17-Dec-19	100%	0	\$0	Charlotte Barbier																												
P5111D125	TTF: Test Gas-Liquid Separator (GLS) with original cone insert design	15-Nov-19 A	30-Jan-20 A	15-Nov-19	30-Jan-20	100%	0	\$0	Charlotte Barbier																												
P5111D130	Generate a fabrication package for the updated cone	18-Nov-19 A	23-Mar-20 A	18-Nov-19	23-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5111D135	Run experiments on POU-10 and custom filters with gas injection	27-Nov-19 A	13-Jan-20 A	27-Nov-19	13-Jan-20	100%	0	\$0	Charlotte Barbier																												
P5111D140	Fabricate the transition and manifold body of the 2MW prototypical target	18-Dec-19 A	11-Mar-20 A	18-Dec-19	11-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5111D150	TTF: Test Gas-Liquid Separator (GLS) Additional measurements at higher flow rate	03-Feb-20 A	24-Mar-20 A	03-Feb-20	24-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5111D155a	Assemble and pressure test leak the 2MW prototypical target	12-Mar-20 A	31-Mar-20 A	12-Mar-20	31-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5111D160a	Fabrication of a new cone insert	24-Mar-20 A	31-Mar-20 A	24-Mar-20	31-Mar-20	100%	0	\$0	Charlotte Barbier																												
P5111D160b	Fabrication of a new cone insert continued	01-Apr-20 A	30-Jun-20 A	01-Apr-20	30-Jun-20	100%	0	\$0	Charlotte Barbier																												
P5111D155b	Assemble and pressure test leak the 2MW prototypical target continued	01-May-20 A	29-May-20 A	01-May-20	29-May-20	100%	0	\$0	Charlotte Barbier																												
P5111D170	Receive the 2MW prototypical target	29-May-20 A	29-May-20 A	29-May-20	29-May-20	100%	0	\$0	Charlotte Barbier																												
P5111D175	TTF: Install a JFT with gas injection and gas wall layer	19-Jun-20 A	30-Sep-20 A	19-Jun-20	30-Sep-20	100%	0	\$0	Charlotte Barbier																												
P5111D200a	Perform BSD measurements on the top of the target	31-Aug-20 A	30-Oct-20 A	31-Aug-20	30-Oct-20	100%	0	\$0	Charlotte Barbier																												



May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 10:10													
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P611M21a	P.6 Management FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$63,549	Mark Connell															
P611M26	P.6 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$53,799	Mark Connell															
P611M31	P.6 Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$55,923	Mark Connell															
P611MS60	P.06 CF Integrated Systems Testing Phase 2 Complete (RTBT Stub) (MS)		01-Aug-23		01-Aug-23	0%	0	\$0	Mark Connell															
P611MS70	P.06 CF Documentation for ARR Phase 2 Complete (RTBT Stub) (MS)		02-Aug-23		02-Aug-23	0%	0	\$0	Mark Connell															
P611M56	P.6 Management FY24 (LOE)	02-Oct-23	10-Oct-23	02-Oct-23	10-Oct-23	0%	7	\$1,356	Mark Connell															
<b>P.06.02 Building Modifications</b>		03-Oct-16 A	26-Sep-24	03-Oct-16	12-Oct-23		823	\$8,171,479																
P62MS009	RF Group Provides Layout input for Klystron Gallery AE Design (MS)		04-Apr-18 A		04-Apr-18	100%	0	\$0	Mark Connell															
P62MS001	Klystron gallery CF construction complete (MS)	06-Apr-21 A		01-Apr-21		100%	0	\$0	Mark Connell															
P62MS006	Ring-to-Target Beam Transport (RTBT) stub construction complete (MS)		01-Aug-23		01-Aug-23	0%	0	\$0	Mark Connell															
<b>P.06.02.01 Klystron Gallery Building Modifications</b>		03-Oct-16 A	30-Jul-21	03-Oct-16	30-Jul-21		43	\$58,044																
<b>P.06.02.01.01 Management and System Integration - Klystron Gallery Building Modifications - (NEP62110)</b>		03-Oct-16 A	30-Jul-21	03-Oct-16	30-Jul-21		43	\$58,044																
P621M71	P.6.2.1 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Connell															
P621M73	P.6.2.1 Management FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Connell															
P621M76	P.6.2.1 Management FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Connell															
P621M81	P.6.2.1 Management FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Mark Connell															
P621M96	P.6.2.1 Management FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Mark Connell															
P621M96C	P.6.2.1 Management FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Mark Connell															
P621M86	P.6.2.1 Management FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Mark Connell															
P621M86a	P.6.2.1 Management FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Mark Connell															
P621M88	P.6.2.1 Management FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Mark Connell															
P621M88a	P.6.2.1 Management FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$19,847	Mark Connell															
P621M88b	P.6.2.1 Management FY21 (LOE) Part 3 (Mar21 - Jul21)	01-Mar-21 A	30-Jul-21	01-Mar-21	30-Jul-21	59.81%	43	\$38,198	Mark Connell															
<b>P.06.02.01.02 Design - Klystron Gallery Building Modifications - (NEP62120)</b>		05-Apr-18 A	17-May-19 A	05-Apr-18	17-May-19		0	\$0																
P621D91	Initial Procurement for Design of Klystron Gallery Upgrades	05-Apr-18 A	30-Apr-18 A	05-Apr-18	30-Apr-18	100%	0	\$0	Mark Connell															
P621D101	Finalize Procurement for Design of Klystron Gallery Upgrades	01-May-18 A	28-Jun-18 A	01-May-18	28-Jun-18	100%	0	\$0	Mark Connell															
P621D100	Management and System Integration Design of Klystron Gallery Upgrades - Part 1 (LOE)	26-Jun-18 A	28-Sep-18 A	26-Jun-18	28-Sep-18	100%	0	\$0	Mark Connell															
P621D31	Klystron Gallery Upgrades Design Support (LOE) - Part 1	26-Jun-18 A	28-Sep-18 A	26-Jun-18	28-Sep-18	100%	0	\$0	Mark Connell															
P621D16	AE Design of the Klystron Gallery Upgrades - Part 1	26-Jun-18 A	28-Sep-18 A	26-Jun-18	28-Sep-18	100%	0	\$0	Mark Connell															
P621MS91	Design of Klystron Gallery Upgrades Awarded	28-Jun-18 A	28-Jun-18 A	28-Jun-18	28-Jun-18	100%	0	\$0	Mark Connell															
P621MS16	Design of Klystron Gallery Upgrades 30% Review (MS)		28-Sep-18 A		28-Sep-18	100%	0	\$0	Mark Connell															
P621D100B	Management and System Integration Design of Klystron Gallery Upgrades - Continued from 45.89% done (LOE)	01-Oct-18 A	31-Jan-19 A	01-Oct-18	31-Jan-19	100%	0	\$0	Mark Connell															
P621D16B	AE Design of the Klystron Gallery Upgrades - Continued from 40% done	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Mark Connell															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P621D31B	Klystron Gallery Upgrades Design Support (LOE) - Continued from 45.89% done	01-Oct-18 A	31-Jan-19 A	01-Oct-18	31-Jan-19	100%	0	\$0	Mark Connell																												
P621MS26	Design of Klystron Gallery Upgrades 60% Review Completed (MS)		07-Nov-18 A		07-Nov-18	100%	0	\$0	Mark Connell																												
P621D36	Pre-FDR Review Cycle (Internal and External)	11-Feb-19 A	21-Mar-19 A	11-Feb-19	21-Mar-19	100%	0	\$0	Mark Connell																												
P621MS36	Design of Klystron Gallery Upgrades 90% Review Completed (MS)		08-Mar-19 A		08-Mar-19	100%	0	\$0	Mark Connell																												
P621D26	Klystron Gallery Upgrades Final Design Review (FDR)	14-Mar-19 A	14-Mar-19 A	14-Mar-19	14-Mar-19	100%	0	\$0	Mark Connell																												
P621MS41	Complete Klystron Gallery Upgrades - AE Design Provided to Project (MS)		29-Mar-19 A		29-Mar-19	100%	0	\$0	Mark Connell																												
P621D16C	AE Design of the KG Upgrade - Generation of CFC Package	01-Apr-19 A	17-May-19 A	01-Apr-19	17-May-19	100%	0	\$0	Mark Connell																												
<b>P.06.02.02 RTBT Modifications</b>		03-Oct-16 A	26-Sep-24	03-Oct-16	12-Oct-23		823	\$7,974,051																													
<b>P.06.02.02.01 Management and System Integration - RTBT Modifications - (NEP62210)</b>		03-Oct-16 A	26-Sep-24	03-Oct-16	10-Oct-23		823	\$119,107																													
P622M86	P.6.2.2 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Mark Connell																												
P622M97	P.6.2.2 Management FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Mark Connell																												
P622M91	P.6.2.2 Management FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Mark Connell																												
P622M96	P.6.2.2 Management FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Mark Connell																												
P622M126	P.6.2.2 Management FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Mark Connell																												
P622M126C	P.6.2.2 Management FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Mark Connell																												
P622M101	P.6.2.2 Management FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Mark Connell																												
P622M101a	P.6.2.2 Management FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Mark Connell																												
P622M106	P.6.2.2 Management FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Mark Connell																												
P622M106a	P.6.2.2 Management FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$8,029	Mark Connell																												
P622M111	P.6.2.2 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$53,799	Mark Connell																												
P622M116	P.6.2.2 Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$55,923	Mark Connell																												
P622MMS01	RTBT Outage Construction Complete (MS)		01-Aug-23		01-Aug-23	0%	0	\$0	Mark Connell																												
P622M136	P.6.2.2 Management FY24 (LOE)	02-Oct-23	26-Sep-24	02-Oct-23	10-Oct-23	0%	245	\$1,356	Mark Connell																												
<b>P.06.02.02.02 Design - RTBT Modifications - (NEP62220)</b>		01-Nov-18 A	02-Nov-20 A	01-Nov-18	02-Nov-20		0	\$71,778																													
P622D141	Prepare Bid Package for AE Design of RTBT Stub	01-Nov-18 A	29-Nov-18 A	01-Nov-18	29-Nov-18	100%	0	\$0	Mark Connell																												
P622D136	Procure Geotechnical Evaluation	29-Nov-18 A	04-Jan-19 A	29-Nov-18	04-Jan-19	100%	0	\$0	Mark Connell																												
P622D05	Procure and Award contract for Final design of RTBT stub	29-Nov-18 A	10-Jan-19 A	29-Nov-18	10-Jan-19	100%	0	\$0	Mark Connell																												
P622D126	Geotechnical Evaluation	07-Jan-19 A	15-Mar-19 A	07-Jan-19	15-Mar-19	100%	0	\$0	Mark Connell																												
P622D131	Engineering Support Geotechnical Evaluation (LOE)	07-Jan-19 A	26-Feb-19 A	07-Jan-19	26-Feb-19	100%	0	\$0	Mark Connell																												
P622D11	AE Design of the RTBT Stub	31-Jan-19 A	29-Mar-19 A	31-Jan-19	29-Mar-19	100%	0	\$0	Mark Connell																												
P622D20	Management and System Integration Design Phase (LOE)	31-Jan-19 A	29-Mar-19 A	31-Jan-19	29-Mar-19	100%	0	\$0	Mark Connell																												
P622D16	ORNL Design Support (LOE)	31-Jan-19 A	29-Mar-19 A	31-Jan-19	29-Mar-19	100%	0	\$0	Mark Connell																												
P622MS41	50% RTBT Stub Design Submittal (MS)	18-Mar-19 A		18-Mar-19		100%	0	\$0	Mark Connell																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																											
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028		29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P622D16b	ORNL Design Support (LOE) - Continued	01-Apr-19 A	01-Jul-19 A	01-Apr-19	01-Jul-19	100%	0	\$0	Mark Connell																												
P622D20b	Management and System Integration Design Phase (LOE) - Continued	01-Apr-19 A	01-Jul-19 A	01-Apr-19	01-Jul-19	100%	0	\$0	Mark Connell																												
P622MS001	Estimated Neutronics Need Date (MS)	01-Apr-19 A		01-Apr-19		100%	0	\$0	Mark Connell																												
P622D11B	AE Design of the RTBT Stub - Continued	01-Apr-19 A	26-Jul-19 A	01-Apr-19	26-Jul-19	100%	0	\$0	Mark Connell																												
P622D31	RTBT Stub Preliminary Design Review (PDR)	11-Apr-19 A	11-Apr-19 A	11-Apr-19	11-Apr-19	100%	0	\$0	Mark Connell																												
P622D171	Complete RTBT Stub Design - Preliminary Design Review Meeting (MS)		11-Apr-19 A		11-Apr-19	100%	0	\$0	Mark Connell																												
P622D181	50% Milestone Review	22-Apr-19 A	24-Apr-19 A	22-Apr-19	24-Apr-19	100%	0	\$0	Mark Connell																												
P622MS51	90% RTBT Stub Design Submittal (MS)	13-May-19 A		13-May-19		100%	0	\$0	Mark Connell																												
P622D191	90% Milestone Review	13-May-19 A	29-May-19 A	13-May-19	29-May-19	100%	0	\$0	Mark Connell																												
P622MS61	100% RTBT Stub Design Submittal (MS)		24-Jun-19 A		24-Jun-19	100%	0	\$0	Mark Connell																												
P622P74	Prep for RTBT Stub Final Design Review (FDR)	23-Jul-19 A	30-Aug-19 A	23-Jul-19	30-Aug-19	100%	0	\$0	Mark Connell																												
P622P74B	Prep for RTBT Stub Final Design Review (FDR) - Continued	03-Sep-19 A	12-Sep-19 A	03-Sep-19	12-Sep-19	100%	0	\$0	Mark Connell																												
P622D21	RTBT Stub Final Design Review (FDR)	13-Sep-19 A	13-Sep-19 A	13-Sep-19	13-Sep-19	100%	0	\$0	Mark Connell																												
P622D41	RTBT Stub AE Final Design Complete (MS)		13-Sep-19 A		13-Sep-19	100%	0	\$0	Mark Connell																												
P622D201	Remaining Invoicing from CANNON for RTBT Stub Design	02-Nov-20 A	02-Nov-20 A	02-Nov-20	02-Nov-20	100%	0	\$71,778	Mark Connell																												
P06.02.02.03 Procure/Fab - RTBT Modifications		01-Nov-21	12-Oct-23	01-Nov-21	12-Oct-23		480	\$7,783,165																													
P06.02.02.03.01 Procure/Fab - RTBT Modifications (Non-LOE)		01-Nov-21	29-Aug-23	01-Nov-21	29-Aug-23		449	\$6,688,509																													
P622P512	Pre-Procurement Review of AE Design of RTBT Stub	18-Feb-22*	17-Mar-22	18-Feb-22	17-Mar-22	0%	20	\$15,414	Mark Connell																												
P622P91	Prepare SOW and Tech Spec for RTBT Stub Construction	18-Mar-22	14-Apr-22	18-Mar-22	14-Apr-22	0%	20	\$16,181	Mark Connell																												
P622P101	Procurement Readiness Review (PRR) for RTBT Stub Construction	18-Apr-22	22-Apr-22	18-Apr-22	22-Apr-22	0%	5	\$385	Mark Connell																												
P622P111	Technical Package to Procurement for RTBT Stub Construction (MS)		22-Apr-22		22-Apr-22	0%	0	\$0	Mark Connell																												
P622P121	Procurement Review for RTBT Stub Construction	25-Apr-22	06-Jun-22	25-Apr-22	06-Jun-22	0%	30	\$1,540	Mark Connell																												
P622P131	Issue RFP for RTBT Stub Construction (MS)		06-Jun-22		06-Jun-22	0%	0	\$0	Mark Connell																												
P622P141	Solicitation Period for RTBT Stub Construction	07-Jun-22	16-Aug-22	07-Jun-22	16-Aug-22	0%	50	\$3,081	Mark Connell																												
P622P151	Solicitation Complete for RTBT Stub Construction (MS)		16-Aug-22		16-Aug-22	0%	0	\$0	Mark Connell																												
P622P161	Review and Award Contract for RTBT Stub Construction	17-Aug-22	28-Sep-22	17-Aug-22	28-Sep-22	0%	30	\$1,540	Mark Connell																												
P622P171	Award Contract for RTBT Stub Construction (MS)		28-Sep-22		28-Sep-22	0%	0	\$0	Mark Connell																												
P622P181	Contractor Mobilization and Submittals	29-Sep-22	03-Jan-23	29-Sep-22	03-Jan-23	0%	60	\$432,011	Mark Connell																												
P622P191	Pre-Outage RTBT Stub Construction	04-Jan-23	01-Feb-23	04-Jan-23	01-Feb-23	0%	20	\$216,140	Mark Connell																												
P622P26	Outage Construction of RTBT Stub	02-Feb-23	01-Aug-23	02-Feb-23	01-Aug-23	0%	181	\$5,601,693	Mark Connell																												
P622P71	RTBT Stub - integrated system testing	06-Jun-23	01-Aug-23	06-Jun-23	01-Aug-23	0%	40	\$17,197	Mark Connell																												
P622P201	Construction Contract Closeout	02-Aug-23	29-Aug-23	02-Aug-23	29-Aug-23	0%	20	\$324,210	Mark Connell																												
P06.02.02.03.01.01 Demolish Building 8940 (Non-LOE)		01-Nov-21	27-Jul-22	01-Nov-21	27-Jul-22		184	\$59,117																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029										
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P622P241	Develop Demolition Package	01-Nov-21*	31-May-22	01-Nov-21	31-May-22	0%	144	\$3,587	Mark Connell																								
P622P271	Move out and disconnect Electrical Service (Before Demo)	01-Jun-22	14-Jun-22	01-Jun-22	14-Jun-22	0%	10	\$23,234	Mark Connell																								
P622P351	Procure Demolition Contract	01-Jun-22	28-Jun-22	01-Jun-22	28-Jun-22	0%	20	\$481	Mark Connell																								
P622P321	Demolish Building 8940	29-Jun-22	27-Jul-22	29-Jun-22	27-Jul-22	0%	20	\$31,815	Mark Connell																								
P622P381	Building 8940 Demolition Complete (MS)		27-Jul-22		27-Jul-22	0%	0	\$0	Mark Connell																								
<b>P06.02.02.03.02 Procure/Fab - RTBT Modifications (LOE)</b>		<b>01-Nov-21</b>	<b>12-Oct-23</b>	<b>01-Nov-21</b>	<b>12-Oct-23</b>		<b>480</b>	<b>\$1,094,656</b>																									
P622P40	Construction Support during Mobilization and Submittal Period (LOE)	29-Sep-22	03-Jan-23	29-Sep-22	03-Jan-23	0%	60	\$18,714	Mark Connell																								
P622P59	Procurement Administration of the During Mobilization and Submittal Period (LOE)	29-Sep-22	03-Jan-23	29-Sep-22	03-Jan-23	0%	60	\$1,605	Mark Connell																								
P622P34	AE Support During Mobilization and Submittal Period (LOE)	29-Sep-22	03-Jan-23	29-Sep-22	03-Jan-23	0%	60	\$83,702	Mark Connell																								
P622P44	Construction Management During Mobilization and Submittal Period (LOE)	29-Sep-22	03-Jan-23	29-Sep-22	03-Jan-23	0%	60	\$58,838	Mark Connell																								
P622P64	Project Management during Mobilization and Submittal Period (LOE)	29-Sep-22	03-Jan-23	29-Sep-22	03-Jan-23	0%	60	\$33,398	Mark Connell																								
P622P41	Construction Support during Construction (field inspections and RFIs) (LOE)	04-Jan-23	27-Jul-23	04-Jan-23	27-Jul-23	0%	143	\$115,590	Mark Connell																								
P622P46	Construction Management During Construction (LOE)	04-Jan-23	27-Jul-23	04-Jan-23	27-Jul-23	0%	143	\$328,880	Mark Connell																								
P622P61	Procurement Administration during Construction (LOE)	04-Jan-23	27-Jul-23	04-Jan-23	27-Jul-23	0%	143	\$12,050	Mark Connell																								
P622P66	Project Management during Construction (LOE)	04-Jan-23	27-Jul-23	04-Jan-23	27-Jul-23	0%	143	\$163,930	Mark Connell																								
P622P36	AE Support During RTBT Stub Construction (LOE)	04-Jan-23	27-Jul-23	04-Jan-23	27-Jul-23	0%	143	\$67,003	Mark Connell																								
P622P31	Facilities Mgmt Division Support including support for outages and tie-ins of mechanical and electrical systems. (LOE)	04-Jan-23	27-Jul-23	04-Jan-23	27-Jul-23	0%	143	\$9,530	Mark Connell																								
P622P51	Field Support (Fire Department - Waste Management) (LOE)	24-Apr-23	19-Jun-23	24-Apr-23	19-Jun-23	0%	40	\$4,765	Mark Connell																								
P622P371	Gather & Organize Readiness Review Documentation (LOE)	15-May-23	02-Aug-23	15-May-23	02-Aug-23	0%	56	\$14,106	Mark Connell																								
P622P211	Project Management during Post Construction (LOE)	02-Aug-23	12-Oct-23	02-Aug-23	12-Oct-23	0%	51	\$20,420	Mark Connell																								
P622P221	AE Support During Post Construction (LOE)	02-Aug-23	12-Oct-23	02-Aug-23	12-Oct-23	0%	51	\$50,501	Mark Connell																								
P622P231	Engineering Support During Post Construction (LOE)	02-Aug-23	12-Oct-23	02-Aug-23	12-Oct-23	0%	51	\$12,461	Mark Connell																								
P622P331	Closeout Activities PM/CFR (LOE)	02-Aug-23	11-Oct-23	02-Aug-23	11-Oct-23	0%	50	\$22,909	Mark Connell																								
P622P341	Documentation & As-Builts (LOE)	02-Aug-23	11-Oct-23	02-Aug-23	11-Oct-23	0%	50	\$8,460	Mark Connell																								
<b>P06.02.02.03.02.01 Demolish Building 8940 (LOE)</b>		<b>01-Nov-21</b>	<b>24-Aug-22</b>	<b>01-Nov-21</b>	<b>24-Aug-22</b>		<b>204</b>	<b>\$67,794</b>																									
P622P251	ORNL Support for Demolition Package (LOE)	01-Nov-21	31-May-22	01-Nov-21	31-May-22	0%	144	\$43,707	Mark Connell																								
P622P261	Project Management during demo package development (LOE)	01-Nov-21	31-May-22	01-Nov-21	31-May-22	0%	144	\$14,158	Mark Connell																								
P622P361	Award Building 8940 Demolition Contract (MS)		28-Jun-22		28-Jun-22	0%	0	\$0	Mark Connell																								
P622P281	Procurement support for Demo (LOE)	29-Jun-22	24-Aug-22	29-Jun-22	24-Aug-22	0%	40	\$770	Mark Connell																								
P622P301	Construction Management During Demo (LOE)	29-Jun-22	24-Aug-22	29-Jun-22	24-Aug-22	0%	40	\$5,820	Mark Connell																								
P622P311	Engineering Support During Demo (LOE)	29-Jun-22	24-Aug-22	29-Jun-22	24-Aug-22	0%	40	\$3,338	Mark Connell																								
<b>P06.02.03 Facility DI Water and HVAC Controls</b>		<b>03-Oct-16 A</b>	<b>31-May-23</b>	<b>03-Oct-16</b>	<b>31-May-23</b>		<b>494</b>	<b>\$139,383</b>																									
<b>P06.02.03.01 Management and System Integration - Facility DI Water and HVAC Controls - (NEP62310)</b>		<b>03-Oct-16 A</b>	<b>30-May-23</b>	<b>03-Oct-16</b>	<b>30-May-23</b>		<b>493</b>	<b>\$19,362</b>																									







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>P07.01.03.02 Design - Gas Injection in Mercury</b>		02-Oct-17 A	30-Sep-19 A	02-Oct-17	30-Sep-19		0	\$0															
P713D120	TTF: design a JFT with gas injection and gas wall layer (Oct through Feb)	02-Oct-17 A	28-Feb-18 A	02-Oct-17	28-Feb-18	100%	0	\$0	Charlotte Barbier			■											
P713D125	TTF: design the Gas Wall Layer Experiments (G-WaLE) (Jan through Feb)	25-Jan-18 A	01-Mar-18 A	25-Jan-18	01-Mar-18	100%	0	\$0	Charlotte Barbier			■											
P713D110	TTF: design the Gas Wall Layer Experiments (G-WaLE) (Mar)	01-Mar-18 A	21-Mar-18 A	01-Mar-18	21-Mar-18	100%	0	\$0	Charlotte Barbier			■											
P713D115	TTF: Modify piping of mercury loop to make it more prototypical to SNS loop	22-Mar-18 A	31-Jul-18 A	22-Mar-18	31-Jul-18	100%	0	\$0	Charlotte Barbier			■											
P713D21	TTF: design a gas-liquid separator (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Charlotte Barbier			■											
P713D130	TTF: Running the Gas Wall Layer Experiments (G-WaLE)	30-May-18 A	14-Sep-18 A	30-May-18	14-Sep-18	100%	0	\$0	Charlotte Barbier			■											
P713D1	TTF: design a JFT with gas injection and gas wall layer (Jun through Sep)	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	\$0	Charlotte Barbier			■											
P713D135	Report: write a report on the TTF experiments (compressor, flow sensor, gas injection, GLS) (Sep)	24-Sep-18 A	28-Sep-18 A	24-Sep-18	28-Sep-18	100%	0	\$0	Charlotte Barbier			■											
P713D140	Contract with UMich (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier			■											
P713D150	TTF: design a JFT with gas injection and gas wall layer (Oct through Remain)	01-Oct-18 A	05-Mar-19 A	01-Oct-18	05-Mar-19	100%	0	\$0	Charlotte Barbier			■											
P713D145	TTF: design a gas-liquid separator (Oct through Remain)	01-Oct-18 A	18-Mar-19 A	01-Oct-18	18-Mar-19	100%	0	\$0	Charlotte Barbier			■											
P713D155	Report: write a report on the TTF experiments (compressor, flow sensor, gas injection, GLS) (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier			■											
P713MS001	Gas-liquid separator design complete		18-Mar-19 A		18-Mar-19	100%	0	\$0	Charlotte Barbier			◆											
P713D140b	Contract with UMich (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Charlotte Barbier			■											
P713D155b1	Report: write a report on the TTF experiments (compressor, flow sensor, gas injection, GLS) for CD2	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Charlotte Barbier			■											
P713D160	Design a new cone to decrease mercury volume left in the GLS after draining the loop	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Charlotte Barbier			■											
P713D165	Make a drawing of the porous test stand	01-Jul-19 A	31-Jul-19 A	01-Jul-19	31-Jul-19	100%	0	\$0	Charlotte Barbier			■											
P713D140c	Contract with UMich (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Charlotte Barbier			■											
<b>P07.01.03.03 Procure/Fab - Gas Injection in Mercury</b>		22-Mar-18 A	30-Aug-19 A	22-Mar-18	30-Aug-19		0	\$0															
P713P130	TTF: Procure and build the Gas Wall Layer Experiments (G-WaLE)	22-Mar-18 A	30-Apr-18 A	22-Mar-18	30-Apr-18	100%	0	\$0	Charlotte Barbier			■											
P713P66	TTF: Find and award contract for two potential new flow sensors for SNS loop (coriolis or/and deltaM) (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Charlotte Barbier			■											
P713P135	TTF: Procure piping components to update TTF mercury loop (Aug through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Charlotte Barbier			■											
P713P140	TTF: Find and award contract for two potential new flow sensors for SNS loop (coriolis or/and deltaM) (Oct through Rem)	01-Oct-18 A	12-Oct-18 A	01-Oct-18	12-Oct-18	100%	0	\$0	Charlotte Barbier			■											
P713P145	TTF: Procure piping components to update TTF mercury loop (Oct through Remain)	01-Oct-18 A	08-Oct-18 A	01-Oct-18	08-Oct-18	100%	0	\$0	Charlotte Barbier			■											
P713P71	Receive two potential new flow sensors for SNS loop (coriolis or/and deltaM)	22-Oct-18 A	30-Jan-19 A	22-Oct-18	30-Jan-19	100%	0	\$0	Charlotte Barbier			■											
P713P26	TTF: Procure and build a gas-liquid separator	18-Mar-19 A	31-Mar-19 A	18-Mar-19	31-Mar-19	100%	0	\$0	Charlotte Barbier			■											
P713P26b1	TTF: Procure and build a gas-liquid separator Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Charlotte Barbier			■											
P713P6	Solicit bids and award contract for fabrication of JFT with gas injection and gas wall layer	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	Charlotte Barbier			■											
P713P155	Fabrication of a test stand to test porous filter	17-Jul-19 A	31-Jul-19 A	17-Jul-19	31-Jul-19	100%	0	\$0	Charlotte Barbier			■											
P713P11b1	TTF: Build and Receive a JFT with gas injection and gas wall layer Continued	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Charlotte Barbier			■											
<b>P07.01.03.04 Installation - Gas Injection in Mercury</b>		23-Jan-18 A	30-Aug-19 A	23-Jan-18	30-Aug-19		0	\$0															
P713I61	TTF: test gas compressor (Jan through Sep)	23-Jan-18 A	28-Sep-18 A	23-Jan-18	28-Sep-18	100%	0	\$0	Charlotte Barbier			■											

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P713141	TTF: test gas injection strategy on current TTF Target (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Charlotte Barbier															
P713120	TTF: install the Gas Wall Layer Experiments (G-WaLE)	01-May-18 A	29-May-18 A	01-May-18	29-May-18	100%	0	\$0	Charlotte Barbier															
P713130	TTF: test gas compressor (Oct through Remain)	01-Oct-18 A	17-Jan-19 A	01-Oct-18	17-Jan-19	100%	0	\$0	Charlotte Barbier															
P713135	TTF: test gas injection strategy on current TTF Target (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier															
P713125	TTF: install new piping for mercury loop	09-Oct-18 A	19-Nov-18 A	09-Oct-18	19-Nov-18	100%	0	\$0	Charlotte Barbier															
P713135b	TTF: test gas injection strategy on current TTF Target Continued	03-Jun-19 A	30-Aug-19 A	03-Jun-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
P7131140	TTF: installation of the porous filter test stand	01-Aug-19 A	28-Aug-19 A	01-Aug-19	28-Aug-19	100%	0	\$0	Charlotte Barbier															
P7131145	TTF: run experiments on the porous stand	29-Aug-19 A	30-Aug-19 A	29-Aug-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
<b>P07.01.04 Numerical Simulations</b>		02-Oct-17 A	30-Aug-19 A	02-Oct-17	30-Aug-19		0	\$0																
<b>P07.01.04.02 Design - Numerical Simulations</b>		02-Oct-17 A	30-Aug-19 A	02-Oct-17	30-Aug-19		0	\$0																
P714D5	Provide relevant geometries to the analyst (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Charlotte Barbier															
P714D10	Num.: perform & rpt CFD and structural simulations to spt design of GI & GLS & write semi-annual rpts FY18 (Oct - Apr)	02-Oct-17 A	30-Apr-18 A	02-Oct-17	30-Apr-18	100%	0	\$0	Charlotte Barbier															
P714D1	Provide relevant geometries to the analyst (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Charlotte Barbier															
P714D15	Num.: perform & rpt CFD and structural simulations to spt design of GI & GLS & write semi-annual rpts FY18 (May - Sep)	24-May-18 A	28-Sep-18 A	24-May-18	28-Sep-18	100%	0	\$0	Charlotte Barbier															
P714D20	Num.: perform and report CFD and structural simulations to support design of GI and GLS and write semi-annual rpts FY19	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier															
P714D30	Provide relevant geometries to the analyst (Oct through Remain) (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Charlotte Barbier															
P714D30b1	Provide relevant geometries to the analyst (Oct through Remain) (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
P714D20b1	Num.: perform&report CFD&structural simulations to support design of GI and GLS&write semi-annual rpts FY19 Cont	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
<b>P07.02 Foil Development</b>		02-Oct-17 A	22-Mar-23	02-Oct-17	06-Apr-23		445	\$209,092																
<b>P07.02.02 Design - Foil Development - (NPPU7220)</b>		02-Oct-17 A	22-Mar-23	02-Oct-17	06-Apr-23		445	\$209,092																
P72M16	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system (Oct17 to Apr18)	02-Oct-17 A	30-Apr-18 A	02-Oct-17	30-Apr-18	100%	0	\$0	Nick Evans															
P72M21	Prepare design/equipment specs for 2D two-wavelength pyrometer - Part 1	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Nick Evans															
P72M16G	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system (May18 to Feb19) - Part 1	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Nick Evans															
P72M1	Test stripper foils on foil test stand at PPU beam intensity FY18	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	\$0	Nick Evans															
P72M16GB	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system (May18 to Feb19) - Part B	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Nick Evans															
P722D100	Test stripper foils on foil test stand at PPU beam intensity FY19 - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Nick Evans															
P722D21B	Prepare design/equipment specs for 2D two-wavelength pyrometer - Part B	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	\$0	Nick Evans															
P72M16GC	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system - Part C	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Nick Evans															
P722D100B	Test stripper foils on foil test stand at PPU beam intensity FY19 - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Nick Evans															
P722D21C	Prepare design/equipment specs for 2D two-wavelength pyrometer - Part C	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Nick Evans															
P72M16GD	Measure temperature of one spot on the foil now in Ring using two-wavelength telescope system - Part D	03-Sep-19 A	20-Sep-19 A	03-Sep-19	20-Sep-19	100%	0	\$0	Nick Evans															
P722D100C	Test stripper foils on foil test stand at PPU beam intensity FY19 - Part C	03-Sep-19 A	15-Oct-19 A	03-Sep-19	15-Oct-19	100%	0	\$0	Nick Evans															
P722D21D	Prepare Design/Equipment Specs for Two Wavelength Pyrometer - Part D	03-Sep-19 A	31-Mar-20 A	03-Sep-19	31-Mar-20	100%	0	\$0	Nick Evans															















Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29		
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P222P415	Receiving Inspections - Fourth Set of Cavities	15-Dec-20 A	15-Dec-20 A	28-Oct-20	20-Jan-21	100%	0	\$0	John Mammosser																
P222MS10	Fourth Cavity Batch On-Site (5 ea)		15-Dec-20 A		27-Oct-20	100%	0	\$0	John Mammosser																
<b>P.10.02.01.03.01.05 Fab Cavities 21-25</b>		01-Sep-20 A	27-Jan-21 A	03-Mar-20	08-Feb-21		0	\$263,245																	
P222P146c	Fabricate fifth set of cavities (5 ea)	01-Sep-20 A	22-Jan-21 A	03-Mar-20	22-Jan-21	100%	0	\$0	John Mammosser																
P222MS05	Fifth Cavity Batch On-Site (5 ea)		22-Jan-21 A		22-Jan-21	100%	0	\$0	John Mammosser																
P222P425	Receiving Inspections - Fifth Set of Cavities	25-Jan-21 A	27-Jan-21 A	25-Jan-21	05-Feb-21	100%	0	\$0	John Mammosser																
P222P430	Payment Milestone: Acceptance of cavity documentation reports for cavities mechanically ready (Fifth)	27-Jan-21 A	27-Jan-21 A	08-Feb-21	08-Feb-21	100%	0	\$263,245	John Mammosser																
<b>P.10.02.01.03.01.06 Fab Cavities 26-30</b>		01-Sep-20 A	26-Feb-21 A	24-Mar-20	01-Mar-21		0	\$268,498																	
P222P146d	Fabricate sixth set of cavities (5 ea)	01-Sep-20 A	27-Jan-21 A	24-Mar-20	12-Feb-21	100%	0	\$0	John Mammosser																
P222P435	Receiving Inspections - Sixth Set of Cavities	27-Jan-21 A	27-Jan-21 A	15-Feb-21	26-Feb-21	100%	0	\$0	John Mammosser																
P222P440	Payment Milestone: Acceptance of cavity documentation reports for cavities mechanically ready (Sixth)	27-Jan-21 A	25-Feb-21 A	01-Mar-21	01-Mar-21	100%	0	\$268,498	John Mammosser																
P222MS06	Sixth Cavity Batch On-Site (5 ea)		25-Feb-21 A		12-Feb-21	100%	0	\$0	John Mammosser																
P222MS135	Last 5 production cavities received on site and successfully passed factory acceptance and receiving inspections		26-Feb-21 A		26-Feb-21	100%	0	\$0	John Mammosser																
<b>P.10.02.01.03.02 Material Scanning LLP</b>		01-May-18 A	18-Nov-19 A	01-May-18	19-Sep-19		0	\$85,779																	
P222P295	Prepare SOW and Tech Spec for Material Scanning	01-May-18 A	01-May-18 A	01-May-18	01-May-18	100%	0	\$0	John Mammosser																
P222P300	Procurement Readiness Review (PRR) for Material Scanning	21-May-18 A	29-May-18 A	21-May-18	29-May-18	100%	0	\$0	John Mammosser																
P222MS30	Technical Package to Procurement for Material Scanning		19-Oct-18 A		19-Oct-18	100%	0	\$0	John Mammosser																
P222P305	Procurement Review and Bid for Material Scanning	22-Oct-18 A	24-Oct-18 A	22-Oct-18	24-Oct-18	100%	0	\$0	John Mammosser																
P222MS35	Issue RFP for Material Scanning		24-Oct-18 A		24-Oct-18	100%	0	\$0	John Mammosser																
P222P310	Solicitation Period for Material Scanning	25-Oct-18 A	21-Dec-18 A	25-Oct-18	21-Dec-18	100%	0	\$0	John Mammosser																
P222P131	Review and Award Contract for Material Scanning by DESY	21-Dec-18 A	29-Mar-19 A	21-Dec-18	29-Mar-19	100%	0	\$0	John Mammosser																
P222MS40	Solicitation Complete for Material Scanning		21-Dec-18 A		21-Dec-18	100%	0	\$0	John Mammosser																
P222MS005	Material scanning contract awarded		29-Mar-19 A		29-Mar-19	100%	0	\$0	John Mammosser																
P222P141	Engineering oversight of Material Scanning by DESY (LOE)	28-Jun-19 A	30-Aug-19 A	28-Jun-19	30-Aug-19	100%	0	\$0	John Mammosser																
P222P136	Material Scanning at DESY and Shipping to Cavity Vendor	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	John Mammosser																
P222P136b	Material Scanning at DESY and Shipping to Cavity Vendor Continued	03-Sep-19 A	18-Nov-19 A	04-Sep-19	19-Sep-19	100%	0	\$84,904	John Mammosser																
P222P141b	Engineering oversight of Material Scanning by DESY (LOE) (Sept 19 only)	03-Sep-19 A	18-Nov-19 A	03-Sep-19	19-Sep-19	100%	0	\$875	John Mammosser																
P222MS130	Material scanning complete and received by cavity vendor		18-Nov-19 A		19-Sep-19	100%	0	\$0	John Mammosser																
<b>P.10.02.01.03.03 Additional Niobium</b>		01-Apr-19 A	22-Aug-19 A	01-Apr-19	22-Aug-19		0	\$0																	
P222P515	Review and Award Contract for Niobium Procurement	01-Apr-19 A	17-Apr-19 A	01-Apr-19	17-Apr-19	100%	0	\$0	John Mammosser																
P222P525	Fabrication and delivery of Niobium Procurement	17-Apr-19 A	21-Aug-19 A	17-Apr-19	21-Aug-19	100%	0	\$0	John Mammosser																
P222P535	Fabrication and delivery of Niobium Procurement Complete		21-Aug-19 A		21-Aug-19	100%	0	\$0	John Mammosser																
P222P545	Receive Niobium Procurement	22-Aug-19 A	22-Aug-19 A	22-Aug-19	22-Aug-19	100%	0	\$0	John Mammosser																

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>P.10.02.01.03.04 Additional Cavities</b>		04-May-20 A	01-Jun-21	01-Jun-20	29-Mar-21		1	\$283,784															
P222P585	Procurement Readiness Review (PRR) for two additional cavities (spares)	04-May-20 A	07-May-20 A	01-Jun-20	05-Jun-20	100%	0	\$223	John Mammosser														
P222MS140	Technical Package to Procurement for two additional cavities (spares)		07-May-20 A		05-Jun-20	100%	0	\$0	John Mammosser														
P222P590	Procurement Review and Bid for two additional cavities (spares)	08-May-20 A	13-May-20 A	08-Jun-20	26-Jun-20	100%	0	\$1,115	John Mammosser														
P222MS145	Issue RFP for two additional cavities (spares)		13-May-20 A		26-Jun-20	100%	0	\$0	John Mammosser														
P222P595	Solicitation Period for two additional cavities (spares)	14-May-20 A	05-Jun-20 A	29-Jun-20	03-Aug-20	100%	0	\$2,677	John Mammosser														
P222MS150	Solicitation Complete for two additional cavities (spares)		05-Jun-20 A		03-Aug-20	100%	0	\$0	John Mammosser														
P222P600	Review and Award Contract for two additional cavities (spares)	08-Jun-20 A	26-Jun-20 A	04-Aug-20	24-Aug-20	100%	0	\$1,673	John Mammosser														
P222MS155	Two additional cavities (spares) contract awarded		26-Jun-20 A		24-Aug-20	100%	0	\$0	John Mammosser														
P222P605	Fabricaion of two additional cavities (spares)	29-Jun-20 A	01-Jun-21	25-Aug-20	26-Mar-21	0%	0	\$0	John Mammosser														
P222P610	Receive two additional cavities (spares)	01-Jun-21	01-Jun-21	29-Mar-21	29-Mar-21	0%	1	\$278,096	John Mammosser														
P222MS160	Fabrication of two additional cavities (spares) complete		01-Jun-21		26-Mar-21	0%	0	\$0	John Mammosser														
<b>P.10.02.02 VTA Qualification Hardware LLP</b>		11-Jul-18 A	01-Feb-19 A	11-Jul-18	01-Feb-19		0	\$0															
<b>P.10.02.02.03 Procure/Fab - VTA Qualification Hardware LLP - (NEP22330)</b>		11-Jul-18 A	01-Feb-19 A	11-Jul-18	01-Feb-19		0	\$0															
P223P315	Prepare SOW and Tech Spec for VTA Qualification Hardware	11-Jul-18 A	31-Jul-18 A	11-Jul-18	31-Jul-18	100%	0	\$0	John Mammosser														
P223P320	Procurement Readiness Review (PRR) for VTA Qualification Hardware	01-Aug-18 A	08-Aug-18 A	01-Aug-18	08-Aug-18	100%	0	\$0	John Mammosser														
P223MS45	Technical Package to Procurement for VTA Qualification Hardware		08-Aug-18 A		08-Aug-18	100%	0	\$0	John Mammosser														
P223P325	Procurement Review and Bid for VTA Qualification Hardware	09-Aug-18 A	21-Sep-18 A	09-Aug-18	21-Sep-18	100%	0	\$0	John Mammosser														
P223MS50	Issue RFP for VTA Qualification Hardware		21-Sep-18 A		21-Sep-18	100%	0	\$0	John Mammosser														
P223P330	Solicitation Period for VTA Qualification Hardware	21-Sep-18 A	28-Sep-18 A	21-Sep-18	28-Sep-18	100%	0	\$0	John Mammosser														
P223MS55	Solicitation Complete for VTA Qualification Hardware		28-Sep-18 A		28-Sep-18	100%	0	\$0	John Mammosser														
P223P46	Review and Award Contract for VTA Qualification Hardware	01-Oct-18 A	18-Dec-18 A	01-Oct-18	18-Dec-18	100%	0	\$0	John Mammosser														
P223MS001	VTA Qualification Hardware contract awarded		08-Oct-18 A		08-Oct-18	100%	0	\$0	John Mammosser														
P223P50	Fabricate test hardware	09-Oct-18 A	29-Jan-19 A	09-Oct-18	29-Jan-19	100%	0	\$0	John Mammosser														
P223P335	Receive test hardware	30-Jan-19 A	30-Jan-19 A	30-Jan-19	30-Jan-19	100%	0	\$0	John Mammosser														
P223MS100	Fabrication of test hardware complete		01-Feb-19 A		01-Feb-19	100%	0	\$0	John Mammosser														
<b>P.10.02.04 Couplers LLP</b>		01-Jun-18 A	28-Jun-21	01-Jun-18	01-Feb-21		20	\$977,246															
<b>P.10.02.04.03 Procure/Fab - Couplers LLP - (NEP22530)</b>		01-Jun-18 A	28-Jun-21	01-Jun-18	01-Feb-21		20	\$977,246															
<b>P.10.02.04.03.01 Outer Couplers LLP</b>		01-Jun-18 A	22-Apr-20 A	01-Jun-18	05-Feb-20		0	\$376,833															
P225P335	Prepare SOW and Tech Spec for 30 outer couplers	01-Jun-18 A	20-Jun-18 A	01-Jun-18	20-Jun-18	100%	0	\$0	John Mammosser														
P225P340	Procurement Readiness Review (PRR) for 30 outer couplers	17-Aug-18 A	17-Aug-18 A	17-Aug-18	17-Aug-18	100%	0	\$0	John Mammosser														
P225MS60	Technical Package to Procurement for 30 outer couplers		20-Aug-18 A		20-Aug-18	100%	0	\$0	John Mammosser														
P225P345	Procurement Review and Bid for 30 outer couplers	21-Aug-18 A	13-Sep-18 A	21-Aug-18	13-Sep-18	100%	0	\$0	John Mammosser														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Years																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P225MS65	Issue RFP for 30 outer couplers		14-Sep-18 A		14-Sep-18	100%	0	\$0	John Mammosser																												
P225P350	Solicitation Period for 30 outer couplers (Sep)	17-Sep-18 A	28-Sep-18 A	17-Sep-18	28-Sep-18	100%	0	\$0	John Mammosser																												
P225P380	Solicitation Period for 30 outer couplers (Oct through Remain)	01-Oct-18 A	17-Oct-18 A	01-Oct-18	17-Oct-18	100%	0	\$0	John Mammosser																												
P225MS70	Solicitation Complete for 30 outer couplers		17-Oct-18 A		17-Oct-18	100%	0	\$0	John Mammosser																												
P225P96	Review and Award Contract of 30 outer couplers	18-Oct-18 A	01-Feb-19 A	18-Oct-18	01-Feb-19	100%	0	\$0	John Mammosser																												
P225MS002	Outer coupler procurement contract awarded		01-Feb-19 A		01-Feb-19	100%	0	\$0	John Mammosser																												
P225P165	Oversight of outer coupler procurement for 28 production and 2 spares (LOE)	01-Feb-19 A	31-Mar-19 A	01-Feb-19	31-Mar-19	100%	0	\$0	John Mammosser																												
P225P170	Technician oversight of outer coupler processing (Writing specification, QA, etc...) (LOE)	01-Feb-19 A	31-Mar-19 A	01-Feb-19	31-Mar-19	100%	0	\$0	John Mammosser																												
P225P470	Purchase of materials for fabrication	04-Feb-19 A	22-Feb-19 A	04-Feb-19	22-Feb-19	100%	0	\$0	John Mammosser																												
P225P101	Fabrication of outer couplers 1 - 10	01-Mar-19 A	31-Mar-19 A	01-Mar-19	31-Mar-19	100%	0	\$0	John Mammosser																												
P225P165b	Oversight of outer coupler procurement for 28 production and 2 spares (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	John Mammosser																												
P225P170b	Technician oversight of outer coupler processing (Writing specification, QA, etc...) (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	John Mammosser																												
P225P101b	Fabrication of outer couplers 1 - 10 Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	John Mammosser																												
P225P175	Purchase of additional materials	03-Jun-19 A	10-Jun-19 A	03-Jun-19	10-Jun-19	100%	0	\$0	John Mammosser																												
P225P165c	Oversight of outer coupler procurement for 28 production and 2 spares (LOE) Continued	30-Aug-19 A	21-Apr-20 A	03-Sep-19	09-Dec-19	100%	0	\$2,567	John Mammosser																												
P225P170c	Technician oversight of outer coupler processing (Writing specification, QA, etc...) (LOE) Continued	30-Aug-19 A	21-Apr-20 A	03-Sep-19	09-Dec-19	100%	0	\$4,851	John Mammosser																												
P225P101c	Fabrication of outer couplers 1 - 10 Continued	03-Sep-19 A	26-Nov-19 A	03-Sep-19	25-Oct-19	100%	0	\$0	John Mammosser																												
P225P460	Fabrication of outer couplers 11-20	27-Nov-19 A	24-Jan-20 A	25-Oct-19	09-Dec-19	100%	0	\$0	John Mammosser																												
P225P475	Milestone Payment: First receipt of 10 units	27-Nov-19 A	27-Nov-19 A	25-Oct-19	28-Oct-19	100%	0	\$136,795	John Mammosser																												
P225P465	Fabrication of outer couplers 21-30	27-Jan-20 A	22-Apr-20 A	10-Dec-19	04-Feb-20	100%	0	\$0	John Mammosser																												
P225P480	Milestone Payment: Second receipt of 10 units	27-Jan-20 A	27-Jan-20 A	10-Dec-19	10-Dec-19	100%	0	\$116,373	John Mammosser																												
P225MS75	Fabrication of 30 outer couplers complete		22-Apr-20 A		04-Feb-20	100%	0	\$0	John Mammosser																												
P225P485	Milestone Payment: Third receipt of 10 units	22-Apr-20 A	22-Apr-20 A	05-Feb-20	05-Feb-20	100%	0	\$116,247	John Mammosser																												
<b>P.10.02.04.03.02 Inner Couplers LLP</b>		11-Jul-18 A	28-Jun-21	11-Jul-18	01-Feb-21		20	\$600,413																													
P225P355	Prepare SOW and Tech Spec for 30 inner couplers	11-Jul-18 A	12-Jul-18 A	11-Jul-18	12-Jul-18	100%	0	\$0	John Mammosser																												
P225P360	Procurement Readiness Review (PRR) for 30 inner couplers	17-Aug-18 A	17-Aug-18 A	17-Aug-18	17-Aug-18	100%	0	\$0	John Mammosser																												
P225MS80	Technical Package to Procurement for 30 inner couplers		20-Aug-18 A		20-Aug-18	100%	0	\$0	John Mammosser																												
P225P365	Procurement Review and Bid for 30 inner couplers	21-Aug-18 A	13-Sep-18 A	21-Aug-18	13-Sep-18	100%	0	\$0	John Mammosser																												
P225MS85	Issue RFP for 30 inner couplers		14-Sep-18 A		14-Sep-18	100%	0	\$0	John Mammosser																												
P225P370	Solicitation Period for 30 inner couplers (Sep)	17-Sep-18 A	28-Sep-18 A	17-Sep-18	28-Sep-18	100%	0	\$0	John Mammosser																												
P225P375	Solicitation Period for 30 inner couplers (Oct through Remain)	01-Oct-18 A	26-Oct-18 A	01-Oct-18	26-Oct-18	100%	0	\$0	John Mammosser																												
P225MS90	Solicitation Complete for 30 inner couplers		26-Oct-18 A		26-Oct-18	100%	0	\$0	John Mammosser																												
P225P86	Review and Award Contract of inner couplers	29-Oct-18 A	03-Jan-19 A	29-Oct-18	03-Jan-19	100%	0	\$0	John Mammosser																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29									
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P225P91	Fabrication of inner couplers 1-4	02-Jan-19 A	31-Mar-19 A	02-Jan-19	31-Mar-19	100%	0	\$0	John Mammosser																							
P225MS001	Inner coupler procurement contract awarded		03-Jan-19 A		03-Jan-19	100%	0	\$0	John Mammosser																							
P225P195	Oversight of inner coupler procurement for 28 production and 2 spares (LOE)	03-Jan-19 A	31-Mar-19 A	03-Jan-19	31-Mar-19	100%	0	\$0	John Mammosser																							
P225P200	Technician oversight of inner coupler processing (Writing specification, QA, etc) (LOE)	03-Jan-19 A	31-Mar-19 A	03-Jan-19	31-Mar-19	100%	0	\$0	John Mammosser																							
P225P195b	Oversight of inner coupler procurement for 28 production and 2 spares (LOE) Continued	31-Mar-19 A	30-Aug-19 A	31-Mar-19	30-Aug-19	100%	0	\$0	John Mammosser																							
P225P200b	Technician oversight of inner coupler processing (Writing specification, QA, etc) (LOE) Continued	31-Mar-19 A	30-Aug-19 A	31-Mar-19	30-Aug-19	100%	0	\$0	John Mammosser																							
P225P495b	Fabrication of inner couplers 1-4 Continued	01-Apr-19 A	08-Jul-19 A	01-Apr-19	08-Jul-19	100%	0	\$0	John Mammosser																							
P225MS004	Receive inner couplers 1-4		08-Jul-19 A		08-Jul-19	100%	0	\$0	John Mammosser																							
P225P440	Fabrication of inner couplers 5-8	09-Jul-19 A	28-Aug-19 A	09-Jul-19	28-Aug-19	100%	0	\$0	John Mammosser																							
P225MS005	Receive inner couplers 5-8		28-Aug-19 A		28-Aug-19	100%	0	\$0	John Mammosser																							
P225P445	Fabrication of inner couplers 9-14	03-Sep-19 A	25-Sep-19 A	03-Sep-19	25-Sep-19	100%	0	\$126,208	John Mammosser																							
P225P195c	Oversight of inner coupler procurement for 28 production and 2 spares (LOE) Continued	03-Sep-19 A	28-Oct-19 A	03-Sep-19	13-Dec-19	100%	0	\$21,072	John Mammosser																							
P225P200c	Technician oversight of inner coupler processing (Writing specification, QA, etc) (LOE) Continued	03-Sep-19 A	28-Oct-19 A	03-Sep-19	13-Dec-19	100%	0	\$3,608	John Mammosser																							
P225MS006	Receive inner couplers 9-14		25-Sep-19 A		25-Sep-19	100%	0	\$0	John Mammosser																							
P225P450	Fabrication of inner couplers 15-22	26-Sep-19 A	16-Oct-19 A	26-Sep-19	01-Nov-19	100%	0	\$168,277	John Mammosser																							
P225MS007	Receive inner couplers 15-22		16-Oct-19 A		01-Nov-19	100%	0	\$0	John Mammosser																							
P225P455	Fabrication of inner couplers 23-30	17-Oct-19 A	28-Oct-19 A	04-Nov-19	13-Dec-19	100%	0	\$168,277	John Mammosser																							
P225MS95	Fabrication of 30 inner couplers complete		28-Oct-19 A		13-Dec-19	100%	0	\$0	John Mammosser																							
P225MS008	Receive inner couplers 23-30		28-Oct-19 A		13-Dec-19	100%	0	\$0	John Mammosser																							
P225P106	Shipping cost to lab partner (Labor - Award contract)	01-Feb-21 A	09-Feb-21 A	24-Feb-20	03-Mar-20	100%	0	\$462	John Mammosser																							
P225P111	Shipping cost to lab partner (Receipt on site M&S)	10-Feb-21 A	28-Jun-21	04-Mar-20	31-Mar-20	30%	20	\$44,631	John Mammosser																							
<b>P:10.02.04.03.02.01 Additional Inner Couplers</b>		01-Apr-20 A	17-Jul-20 A	01-May-20	01-Feb-21		0	\$67,878																								
P225P505	Procure three additional inner couplers (spares)	01-Apr-20 A	08-Apr-20 A	01-May-20	29-May-20	100%	0	\$558	John Mammosser																							
P225P510	Fabricate three additional inner couplers (spares)	08-Apr-20 A	17-Jul-20 A	01-Jun-20	29-Jan-21	100%	0	\$0	John Mammosser																							
P225P515	Receive three additional inner couplers (spares)	17-Jul-20 A	17-Jul-20 A	01-Feb-21	01-Feb-21	100%	0	\$67,320	John Mammosser																							
P225MS009	Fabrication of three additional inner couplers complete (spares)		17-Jul-20 A		29-Jan-21	100%	0	\$0	John Mammosser																							
<b>P:10.02.05 Coupler Acquisition</b>		11-Jul-18 A	10-Jul-20 A	11-Jul-18	24-Mar-20		0	\$371,768																								
<b>P:10.02.05.03 Procure/Fab - Coupler Acquisition</b>		11-Jul-18 A	10-Jul-20 A	11-Jul-18	24-Mar-20		0	\$371,768																								
P225P005	Procure Coupler Shipping Carts & Cleanroom Carts	03-Sep-19 A	23-Sep-19 A	03-Sep-19	23-Sep-19	100%	0	\$503	John Mammosser																							
P225P015	Procure Instrumentation for Bridge waveguides	03-Sep-19 A	23-Oct-19 A	03-Sep-19	23-Sep-19	100%	0	\$513	John Mammosser																							
P225P010	Fabricate Coupler Shipping Carts & Cleanroom Carts	24-Sep-19 A	13-Nov-19 A	24-Sep-19	18-Nov-19	100%	0	\$0	John Mammosser																							
P225P020	Fabricate Instrumentation for Bridge Waveguides	24-Oct-19 A	13-Dec-19 A	24-Sep-19	18-Dec-19	100%	0	\$0	John Mammosser																							
P225P050	Receive Coupler Shipping Carts & Cleanroom Carts	13-Nov-19 A	13-Nov-19 A	19-Nov-19	19-Nov-19	100%	0	\$18,914	John Mammosser																							





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P233P035	Vendor Effort Order Material Components for Vessels Made from Existing Spare Parts	20-Dec-19 A	25-Dec-19 A	06-Jan-20	10-Jan-20	100%	0	\$0	Matt Howell															
P233P040	Accept Vendor Effort Material Components for Vessels Made from Existing Spare Parts	25-Dec-19 A	25-Dec-19 A	13-Jan-20	13-Jan-20	100%	0	\$274,544	Matt Howell															
P233P180	Vendor Effort - Delivery of Materials to Complete 3 Helium Vessels for Welding Test	06-Jan-20 A	23-Mar-20 A	19-Dec-19	19-Dec-19	100%	0	\$0	Matt Howell															
P233P045	Vendor Effort Fabrication of Helium Vessels - Receipt #1 of Major Component Material	06-Jan-20 A	24-Jan-20 A	06-Jan-20	28-Feb-20	100%	0	\$0	Matt Howell															
P233P065	Vendor Effort Fabrication of Helium Vessels - Receive Ti Plate & Pipe Compo for Vessels Made from Existing Spare Parts	06-Jan-20 A	24-Jan-20 A	06-Jan-20	28-Feb-20	100%	0	\$0	Matt Howell															
P233P050	Accept Vendor Effort Fabrication of Helium Vessels - Receipt #1 of Major Component Material	27-Jan-20 A	27-Jan-20 A	02-Mar-20	02-Mar-20	100%	0	\$198,570	Matt Howell															
P233P070	Accept VE Fabrication of Helium Vessels - Receive Ti Plate & Pipe Compo for Vessels Made from Existing Spare Parts	27-Jan-20 A	27-Jan-20 A	02-Mar-20	02-Mar-20	100%	0	\$88,238	Matt Howell															
P233P075	Vendor Effort Fabrication of Helium Vessels - Receive Expansion Joints for Vessels	27-Jan-20 A	20-Apr-20 A	02-Mar-20	25-Mar-20	100%	0	\$0	Matt Howell															
P233P085	Vendor Effort Fabrication of Helium Vessels - Receipt #2 of Major Component Material	27-Jan-20 A	30-Mar-20 A	02-Mar-20	31-Mar-20	100%	0	\$0	Matt Howell															
P233P185	Accept Vendor Effort - Delivery of Materials to Complete 3 Helium Vessels for Welding Test	24-Mar-20 A	24-Aug-20 A	20-Dec-19	20-Dec-19	100%	0	\$89,910	Matt Howell															
P233P090	Accept VE Fabrication of Helium Vessels - Receipt #2 of Major Component Material	31-Mar-20 A	31-Mar-20 A	01-Apr-20	01-Apr-20	100%	0	\$201,458	Matt Howell															
P233P095	Vendor Effort Fabrication of Helium Vessels - Delivery of First Set of 5 Helium Vessels	01-Apr-20 A	12-Jun-20 A	02-Apr-20	20-May-20	100%	0	\$0	Matt Howell															
P233P080	Accept VE Fabrication of Helium Vessels - Receive Expansion Joints for Vessels	20-Apr-20 A	20-Apr-20 A	26-Mar-20	26-Mar-20	100%	0	\$206,901	Matt Howell															
P233P100	Accept VE Fabrication of Helium Vessels - Delivery of First Set of 5 Helium Vessels	15-Jun-20 A	14-Aug-20 A	21-May-20	21-May-20	100%	0	\$106,396	Matt Howell															
P233P105	Vendor Effort Fabrication of Helium Vessels - Delivery of Second Set of 5 Helium	01-Jul-20 A	12-Aug-20 A	21-May-20	15-Jun-20	100%	0	\$0	Matt Howell															
P233P110	Accept VE Fabrication of Helium Vessels - Delivery of Second Set of 5 Helium	13-Aug-20 A	13-Aug-20 A	16-Jun-20	16-Jun-20	100%	0	\$106,595	Matt Howell															
P233P115	Vendor Effort Fabrication of Helium Vessels - Delivery of Third Set of 5 Helium Vessels	17-Aug-20 A	12-Oct-20 A	16-Jun-20	17-Jul-20	100%	0	\$0	Matt Howell															
P233P120	Accept VE Fabrication of Helium Vessels - Delivery of Third Set of 5 Helium Vessels	12-Oct-20 A	16-Dec-20 A	20-Jul-20	20-Jul-20	100%	0	\$106,595	Matt Howell															
P233P190	Adjustment for October Rate Change BCR	07-Dec-20 A	07-Dec-20 A	07-Dec-20	07-Dec-20	100%	0	\$25	Matt Howell															
P233P125	Vendor Effort Fabrication of Helium Vessels - Delivery of Fourth Set of 5 Helium Vessels	16-Dec-20 A	17-Dec-20 A	20-Jul-20	31-Aug-20	100%	0	\$0	Matt Howell															
P233P130	Accept VE Fabrication of Helium Vessels - Delivery of Fourth Set of 5 Helium Vessels	17-Dec-20 A	22-Feb-21 A	01-Sep-20	01-Sep-20	100%	0	\$108,586	Matt Howell															
P233P135	Vendor Effort Fabrication of Helium Vessels - Delivery of Fifth Set of 5 Helium Vessels	08-Feb-21 A	09-Feb-21 A	01-Sep-20	30-Sep-20	100%	0	\$0	Matt Howell															
P233P140	Accept VE Fabrication of Helium Vessels - Delivery of Fifth Set of 5 Helium Vessels	09-Feb-21 A	22-Mar-21 A	01-Oct-20	01-Oct-20	100%	0	\$104,548	Matt Howell															
P233P145	Vendor Effort Fabrication of Helium Vessels - Delivery of Sixth Set of 5 Helium Vessels & Remaining Effort	23-Mar-21 A	01-Apr-21 A	01-Oct-20	20-Oct-20	100%	0	\$0	Matt Howell															
P233P150	Accept VE Fabrication of Helium Vessels - Delivery of Sixth Set of 5 Helium Vessels & Remaining Effort	05-Apr-21 A	16-Jul-21	21-Oct-20	21-Oct-20	80%	33	\$105,713	Matt Howell															
P.10.02.07.03.04 Tuner Procurement		01-Oct-19 A	16-Nov-20 A	24-Sep-19	19-Aug-20		0	\$830,534																
P234P010	Tuner Procurement - A	01-Oct-19 A	07-Oct-19 A	24-Sep-19	30-Sep-19	100%	0	\$14,517	Matt Howell															
P234P010b	Tuner Procurement - B	08-Oct-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$77,272	Matt Howell															
P234P010c	Tuner Procurement - C	20-Dec-19 A	20-Dec-19 A	01-Nov-19	27-Nov-19	100%	0	\$78,027	Matt Howell															
P234P010d	Tuner Procurement - D	20-Dec-19 A	20-Dec-19 A	02-Dec-19	20-Dec-19	100%	0	\$53,092	Matt Howell															
P234P015	Vendor Effort Fabrication of Tuner Frames Lot #1	06-Jan-20 A	30-Mar-20 A	06-Jan-20	24-Mar-20	100%	0	\$0	Matt Howell															
P234P035	Vendor Effort Fabrication of Tuner Motors	06-Jan-20 A	28-Feb-20 A	06-Jan-20	19-May-20	100%	0	\$0	Matt Howell															
P234P045	Vendor Effort Fabrication of Tuner Harmonic Drives	06-Jan-20 A	14-Aug-20 A	06-Jan-20	16-Jun-20	100%	0	\$0	Matt Howell															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P234P075	Vendor Effort Fabrication of Tuner Frames (Thermal Straps and Production Spares)	06-Jan-20 A	30-Mar-20 A	06-Jan-20	30-Apr-20	100%	0	\$0	Matt Howell														
P234P040	Accept Vendor Effort Fabrication of Tuner Motors	28-Feb-20 A	28-Feb-20 A	20-May-20	20-May-20	100%	0	\$103,035	Matt Howell														
P234P020	Accept Vendor Effort Fabrication of Tuner Frames Lot #1	31-Mar-20 A	31-Mar-20 A	25-Mar-20	25-Mar-20	100%	0	\$103,805	Matt Howell														
P234P080	Accept Vendor Effort Fabrication of Tuner Frames (Thermal Straps and Production Spares)	31-Mar-20 A	31-Mar-20 A	01-May-20	01-May-20	100%	0	\$21,733	Matt Howell														
P234P025	Vendor Effort Fabrication of Tuner Frames Lot #2	01-Apr-20 A	27-Apr-20 A	25-Mar-20	14-May-20	100%	0	\$0	Matt Howell														
P234P055	Vendor Effort Fabrication of Tuner Frames Lot #3	01-Apr-20 A	11-Jun-20 A	18-May-20	09-Jul-20	100%	0	\$0	Matt Howell														
P234P030	Accept Vendor Effort Fabrication of Tuner Frames Lot #2	27-Apr-20 A	27-Apr-20 A	15-May-20	15-May-20	100%	0	\$83,773	Matt Howell														
P234P60	Vendor Effort Fabrication of Tuner Frames Lot #4	01-Jun-20 A	11-Jun-20 A	10-Jul-20	18-Aug-20	100%	0	\$0	Matt Howell														
P234P060	Accept Vendor Effort Fabrication of Tuner Frames Lot #3	12-Jun-20 A	12-Jun-20 A	10-Jul-20	10-Jul-20	100%	0	\$84,493	Matt Howell														
P234P65	Accept Vendor Effort Fabrication of Tuner Frames Lot #4	12-Jun-20 A	12-Jun-20 A	19-Aug-20	19-Aug-20	100%	0	\$54,993	Matt Howell														
P234P050	Accept Vendor Effort Fabrication of Tuner Harmonic Drives	17-Aug-20 A	16-Nov-20 A	17-Jun-20	17-Jun-20	100%	0	\$155,794	Matt Howell														
<b>P.10.02.07.03.05</b>	<b>Thermal Shield &amp; MLI Procurement</b>	<b>11-Nov-19 A</b>	<b>20-Jan-21 A</b>	<b>01-Oct-19</b>	<b>11-Dec-20</b>	<b></b>	<b>0</b>	<b>\$856,676</b>															
P235P010	Thermal Shield & MLI Procurement - A	11-Nov-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$77,882	Matt Howell														
P235P010b	Thermal Shield & MLI Procurement - B	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$140,713	Matt Howell														
P235P015	Vendor Effort Existing Parts Inspection of Thermal Shield	20-Dec-19 A	25-Dec-19 A	06-Jan-20	31-Jan-20	100%	0	\$0	Matt Howell														
P235P020	Accept Vendor Effort Existing Parts Inspection of Thermal Shield	25-Dec-19 A	25-Dec-19 A	03-Feb-20	03-Feb-20	100%	0	\$18,614	Matt Howell														
P235P075	Vendor Effort Fabrication of Thermal Shield Assemblies - MOD 1 - Additional 50K Support Assemblies	06-Jan-20 A	15-Jun-20 A	06-Jan-20	29-Jul-20	100%	0	\$0	Matt Howell														
P235P025	Vendor Effort Fabrication of Thermal Shield Assemblies - Procurement of Materials Completed	06-Jan-20 A	20-Jan-20 A	06-Jan-20	04-Mar-20	100%	0	\$0	Matt Howell														
P235P030	Accept Vendor Effort Fabrication of Thermal Shield Assemblies - Procurement of Materials Completed	20-Jan-20 A	20-Jan-20 A	05-Mar-20	05-Mar-20	100%	0	\$178,907	Matt Howell														
P235P035	Vendor Effort Fabrication of Thermal Shield Assemblies - Bill of Materials Complete	20-Jan-20 A	27-Jan-20 A	05-Mar-20	11-Mar-20	100%	0	\$0	Matt Howell														
P235P040	Accept Vendor Effort Fabrication of Thermal Shield Assemblies - Bill of Materials Complete	27-Jan-20 A	27-Jan-20 A	12-Mar-20	12-Mar-20	100%	0	\$21,869	Matt Howell														
P235P045	Vendor Effort Fabrication of Thermal Shield Assemblies - Fabrication of all 6 Thermal Shield Completed	03-Feb-20 A	11-Jun-20 A	12-Mar-20	11-Jun-20	100%	0	\$0	Matt Howell														
P235P115	Vendor Effort Fabrication Thermal Shield Repair - Completion of All Follow Up Items on Inspection Report Provided	05-Mar-20 A	09-Mar-20 A	05-Mar-20	09-Mar-20	100%	0	\$0	Matt Howell														
P235P155	Adjustment for JLab February Labor	06-Mar-20 A	06-Mar-20 A	06-Mar-20	06-Mar-20	100%	0	(\$380)	Matt Howell														
P235P135	Vendor Effort Fabrication of Beamline Thermal Stations	10-Mar-20 A	29-May-20 A	10-Mar-20	30-Apr-20	100%	0	\$0	Matt Howell														
P235P145	Vendor Effort Fabrication of One Additional Set of Thermal Shield Return and Supply End Assemblies MOD2	10-Mar-20 A	23-Jun-20 A	10-Mar-20	28-Jul-20	100%	0	\$0	Matt Howell														
P235P120	Accept Vendor Effort Fabrication Thermal Shield Repair - Completion of All Follow Up Items on Inspection Report Provided	10-Mar-20 A	10-Mar-20 A	10-Mar-20	10-Mar-20	100%	0	\$11,173	Matt Howell														
P235P095	Vendor Effort Fabrication of MLI - First Article	11-Mar-20 A	21-Jul-20 A	12-Mar-20	22-Jul-20	100%	0	\$0	Matt Howell														
P235P105	Vendor Effort Fabrication Thermal Shield Repair - Completion of Obtaining Brazing Certification	11-Mar-20 A	12-Mar-20 A	13-Mar-20	20-Mar-20	100%	0	\$0	Matt Howell														
P235P110	Accept Vendor Effort Fabrication Thermal Shield Repair - Completion of Obtaining Brazing Certification	12-Mar-20 A	12-Mar-20 A	23-Mar-20	23-Mar-20	100%	0	\$6,845	Matt Howell														
P235P125	Vendor Effort Thermal Shield Repair - Delivery of Repaired SNS PPU Thermal Shield to Jefferson Lab	24-Mar-20 A	30-Mar-20 A	24-Mar-20	31-Mar-20	100%	0	\$0	Matt Howell														
P235P130	Accept Vendor Effort Thermal Shield Repair - Delivery of Repaired SNS PPU Thermal Shield to Jefferson Lab	30-Mar-20 A	30-Mar-20 A	01-Apr-20	01-Apr-20	100%	0	\$17,550	Matt Howell														
P235P170	Adjustment for March JLab Labor	01-Apr-20 A	01-Apr-20 A	01-Apr-20	01-Apr-20	100%	0	\$4,884	Matt Howell														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P235P160	Vendor Effort Installing Thermal Shield Assy to Space Frame Assy	01-May-20 A	17-Jun-20 A	01-Apr-20	09-Jun-20	100%	0	\$0	Matt Howell																						
P235P065	Vendor Effort Fabrication of Thermal Shield Assemblies - Fabrication of all 6 Thermal Shield Completed	01-Jun-20 A	15-Jun-20 A	26-Jun-20	30-Jul-20	100%	0	\$0	Matt Howell																						
P235P140	Accept Vendor Effort Fabrication of Beamline Thermal Stations	02-Jun-20 A	02-Jun-20 A	01-May-20	01-May-20	100%	0	\$17,257	Matt Howell																						
P235P175	Vendor Effort Fabrication of Beamline Thermal Stations, Mod 2	03-Jun-20 A	04-Jun-20 A	15-Jun-20	06-Jul-20	100%	0	\$0	Matt Howell																						
P235P180	Accept Vendor Effort Fabrication of Beamline Thermal Stations, Mod 2	05-Jun-20 A	05-Jun-20 A	07-Jul-20	07-Jul-20	100%	0	\$2,399	Matt Howell																						
P235P050	Accept Vendor Effort Fabrication of Thermal Shield Assemblies - Fabrication of all 6 Thermal Shield Completed	12-Jun-20 A	12-Jun-20 A	12-Jun-20	12-Jun-20	100%	0	\$133,906	Matt Howell																						
P235P055	Vendor Effort Fabrication of Thermal Shield Assemblies - Testing Complete	12-Jun-20 A	15-Jun-20 A	12-Jun-20	25-Jun-20	100%	0	\$0	Matt Howell																						
P235P060	Accept Vendor Effort Fabrication of Thermal Shield Assemblies - Testing Complete	16-Jun-20 A	16-Jun-20 A	26-Jun-20	26-Jun-20	100%	0	\$41,942	Matt Howell																						
P235P070	Accept Vendor Effort Fabrication of Thermal Shield Assemblies - Fabrication of all 6 Thermal Shield Delivered	16-Jun-20 A	16-Jun-20 A	31-Jul-20	31-Jul-20	100%	0	\$46,611	Matt Howell																						
P235P080	Accept Vendor Effort Fabrication of Thermal Shield Assemblies - MOD 1 - Additional 50K Support Assemblies	16-Jun-20 A	16-Jun-20 A	30-Jul-20	30-Jul-20	100%	0	\$17,402	Matt Howell																						
P235P165	Accept Vendor Effort Installing Thermal Shield Assy to Space Frame Assy	18-Jun-20 A	18-Jun-20 A	10-Jun-20	10-Jun-20	100%	0	\$6,890	Matt Howell																						
P235P150	Accept Vendor Effort Fabrication of One Additional Set of Thermal Shield Return and Supply End Assemblies MOD2	23-Jun-20 A	23-Jun-20 A	29-Jul-20	29-Jul-20	100%	0	\$14,720	Matt Howell																						
P235P100	Accept MLI First Article	22-Jul-20 A	22-Jul-20 A	23-Jul-20	23-Jul-20	100%	0	\$29,454	Matt Howell																						
P235P085	Vendor Effort Fabrication of MLI Remainder	23-Jul-20 A	20-Jan-21 A	24-Jul-20	10-Dec-20	100%	0	\$0	Matt Howell																						
P235P185	Adjustment for October Rate Change BCR	11-Dec-20 A	11-Dec-20 A	11-Dec-20	11-Dec-20	100%	0	\$3	Matt Howell																						
P235P090	Accept Vendor Effort Fabrication Remainder of MLI	20-Jan-21 A	20-Jan-21 A	11-Dec-20	11-Dec-20	100%	0	\$68,034	Matt Howell																						
<b>P.10.02.07.03.06 Spaceframe Procurement</b>		04-Nov-19 A	15-Feb-21 A	01-Oct-19	21-Aug-20		0	\$598,488																							
P236P010	Spaceframe Procurement - A	04-Nov-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$64,040	Matt Howell																						
P236P010b	Spaceframe Procurement - B	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$101,420	Matt Howell																						
P236P015	Vendor Fabrication of Spaceframe	06-Jan-20 A	12-Feb-21 A	06-Jan-20	20-Aug-20	100%	0	\$0	Matt Howell																						
P236P025	Vendor Fabrication of Spaceframe - Receipt of Majority of Raw Materials and Start of Fabrication	06-Jan-20 A	30-Mar-20 A	06-Jan-20	12-Mar-20	100%	0	\$0	Matt Howell																						
P236P045	Vendor Repair of Existing Spaceframe	16-Mar-20 A	28-May-20 A	16-Mar-20	29-May-20	100%	0	\$0	Matt Howell																						
P236P030	Accept Vendor Fabrication of Spaceframe - Receipt of Majority of Raw Materials and Start of Fabrication	31-Mar-20 A	31-Mar-20 A	13-Mar-20	13-Mar-20	100%	0	\$139,130	Matt Howell																						
P236P035	Vendor Fabrication of Spaceframe - Completion of Machined Components	01-Apr-20 A	21-Aug-20 A	16-Mar-20	22-May-20	100%	0	\$0	Matt Howell																						
P236P050	Accept Vendor Repair of Existing Spaceframe	01-Jun-20 A	01-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	\$17,886	Matt Howell																						
P236P055	Vendor Effort Fabrication of Spaceframe - Receipt of Nitronic Rods	08-Jun-20 A	12-Jun-20 A	27-May-20	22-Jun-20	100%	0	\$0	Matt Howell																						
P236P060	Accept Vendor Effort Fabrication of Spaceframe - Receipt of Nitronic Rods	15-Jun-20 A	15-Jun-20 A	23-Jun-20	23-Jun-20	100%	0	\$59,003	Matt Howell																						
P236P040	Accept Vendor Fabrication of Spaceframe - Completion of Machined Components	24-Aug-20 A	24-Aug-20 A	26-May-20	26-May-20	100%	0	\$156,888	Matt Howell																						
P236P020	Accept Vendor Fabrication of Spaceframe	15-Feb-21 A	15-Feb-21 A	21-Aug-20	21-Aug-20	100%	0	\$60,121	Matt Howell																						
<b>P.10.02.07.03.07 Vacuum Vessel Procurement</b>		04-Oct-19 A	18-Nov-21	24-Sep-19	01-Oct-21		121	\$1,680,084																							
P237P010	Vacuum Vessel Procurement - A	04-Oct-19 A	20-Dec-19 A	24-Sep-19	30-Sep-19	100%	0	\$22,219	Matt Howell																						
P237P010b	Vacuum Vessel Procurement - B	20-Dec-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$113,442	Matt Howell																						
P237P010c	Vacuum Vessel Procurement - C	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$172,444	Matt Howell																						



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P237P015	Vendor Effort Fabrication of Vacuum Vessels - Placement of Material Order	07-Jan-20 A	28-Feb-20 A	06-Jan-20	25-Mar-20	100%	0	\$0	Matt Howell															
P237P020	Accept Vendor Effort Fabrication of Vacuum Vessels - Placement of Material Order	28-Feb-20 A	28-Feb-20 A	26-Mar-20	26-Mar-20	100%	0	\$282,104	Matt Howell															
P237P025	Vendor Effort Fabrication of Vacuum Vessels - Shell Material Received by Vendor	02-Mar-20 A	30-Mar-20 A	26-Mar-20	22-May-20	100%	0	\$0	Matt Howell															
P237P030	Accept Vendor Effort Fabrication of Vacuum Vessels - Shell Material Received by Vendor	31-Mar-20 A	31-Mar-20 A	26-May-20	26-May-20	100%	0	\$258,839	Matt Howell															
P237P035	Vendor Effort Fabrication of Vacuum Vessels - CM #1 Vacuum Vessel Received at JLab	01-Apr-20 A	16-Apr-21 A	26-May-20	13-Oct-20	100%	0	\$0	Matt Howell															
P237P105	Adjustment for October Rate Change BCR	11-Dec-20 A	11-Dec-20 A	11-Dec-20	11-Dec-20	100%	0	\$19	Matt Howell															
P237P040	Accept Vendor Effort Fabrication of Vacuum Vessels - CM #1 Vacuum Vessel Received at JLab	19-Apr-21 A	19-Apr-21 A	14-Oct-20	14-Oct-20	100%	0	\$122,627	Matt Howell															
P237P130	Vendor Effort Fabrication of Vacuum Vessel Dimensional Inspection 1	03-May-21 A	11-May-21 A	03-May-21	11-May-21	100%	0	\$0	Matt Howell															
P237P145	Vendor Effort Fabrication of Vacuum Vessel Dimensional Inspection 2	03-May-21 A	09-Jun-21	03-May-21	11-May-21	0%	7	\$0	Matt Howell															
P237P135	Accept Vacuum Vessel Dimensional Inspection 1	12-May-21 A	12-May-21 A	12-May-21	12-May-21	100%	0	\$4,335	Matt Howell															
P237P045	Vendor Effort Fabrication of Vacuum Vessels - CM #2 Vacuum Vessel Received at JLab	01-Jun-21	06-Jul-21	14-Oct-20	11-Nov-20	0%	25	\$0	Matt Howell															
P237P140	Accept Vacuum Vessel Dimensional Inspection 2	10-Jun-21	10-Jun-21	12-May-21	12-May-21	0%	1	\$4,335	Matt Howell															
P237P150	Vendor Effort Fabrication of Vacuum Vessel Dimensional Inspection 3	11-Jun-21	29-Jun-21	13-May-21	01-Jun-21	0%	13	\$0	Matt Howell															
P237P155	Accept Vacuum Vessel Dimensional Inspection 3	30-Jun-21	30-Jun-21	02-Jun-21	02-Jun-21	0%	1	\$4,335	Matt Howell															
P237P160	Vendor Effort Fabrication of Vacuum Vessel Dimensional Inspection 4	01-Jul-21	06-Aug-21	03-Jun-21	09-Jul-21	0%	26	\$0	Matt Howell															
P237P050	Accept Vendor Effort Fabrication of Vacuum Vessels - CM #2 Vacuum Vessel Received at JLab	07-Jul-21	07-Jul-21	12-Nov-20	12-Nov-20	0%	1	\$113,212	Matt Howell															
P237P055	Vendor Effort Fabrication of Vacuum Vessels - CM #3 Vacuum Vessel Received at JLab	07-Jul-21	19-Jul-21	12-Nov-20	10-Dec-20	0%	9	\$0	Matt Howell															
P237P060	Accept Vendor Effort Fabrication of Vacuum Vessels - CM #3 Vacuum Vessel Received at JLab	20-Jul-21	20-Jul-21	11-Dec-20	11-Dec-20	0%	1	\$113,054	Matt Howell															
P237P065	Vendor Effort Fabrication of Vacuum Vessels - CM #4 Vacuum Vessel Received at JLab	20-Jul-21	16-Aug-21	11-Dec-20	13-Jan-21	0%	20	\$0	Matt Howell															
P237P165	Accept Vacuum Vessel Dimensional Inspection 4	09-Aug-21	09-Aug-21	12-Jul-21	12-Jul-21	0%	1	\$4,335	Matt Howell															
P237P170	Vendor Effort Fabrication of Vacuum Vessel Dimensional Inspection 5	10-Aug-21	20-Aug-21	13-Jul-21	30-Jul-21	0%	9	\$0	Matt Howell															
P237P070	Accept Vendor Effort Fabrication of Vacuum Vessels - CM #4 Vacuum Vessel Received at JLab	17-Aug-21	17-Aug-21	14-Jan-21	14-Jan-21	0%	1	\$113,221	Matt Howell															
P237P075	Vendor Effort Fabrication of Vacuum Vessels - CM #5 Vacuum Vessel Received at JLab	17-Aug-21	20-Aug-21	14-Jan-21	15-Feb-21	0%	4	\$0	Matt Howell															
P237P080	Accept Vendor Effort Fabrication of Vacuum Vessels - CM #5 Vacuum Vessel Received at JLab	23-Aug-21	23-Aug-21	16-Feb-21	16-Feb-21	0%	1	\$113,305	Matt Howell															
P237P085	Vendor Effort Fabrication of Vacuum Vessels - CM #6 Vacuum Vessel Received at JLab	23-Aug-21	01-Oct-21	16-Feb-21	12-Mar-21	0%	29	\$0	Matt Howell															
P237P175	Accept Vacuum Vessel Dimensional Inspection 5	23-Aug-21	23-Aug-21	02-Aug-21	02-Aug-21	0%	1	\$4,335	Matt Howell															
P237P180	Vendor Effort Fabrication of Vacuum Vessel Dimensional Inspection 6	24-Aug-21	01-Oct-21	03-Aug-21	10-Sep-21	0%	28	\$0	Matt Howell															
P237P090	Accept Vendor Effort Fabrication of Vacuum Vessels - CM #6 Vacuum Vessel Received at JLab	04-Oct-21	15-Oct-21	15-Mar-21	15-Mar-21	0%	10	\$114,796	Matt Howell															
P237P095	Vendor Effort Fabrication of Vacuum Vessels - CM #7 Vacuum Vessel Received at JLab	04-Oct-21	17-Nov-21	15-Mar-21	07-Apr-21	0%	33	\$0	Matt Howell															
P237P185	Accept Vacuum Vessel Dimensional Inspection 6	04-Oct-21	04-Oct-21	13-Sep-21	13-Sep-21	0%	1	\$4,335	Matt Howell															
P237P190	Vendor Effort Fabrication of Vacuum Vessel Dimensional Inspection 7	05-Oct-21	21-Oct-21	14-Sep-21	30-Sep-21	0%	13	\$0	Matt Howell															
P237P195	Accept Vacuum Vessel Dimensional Inspection 7	22-Oct-21	22-Oct-21	01-Oct-21	01-Oct-21	0%	1	\$4,335	Matt Howell															
P237P100	Accept Vendor Effort Fabrication of Vacuum Vessels - CM #7 Vacuum Vessel Received at JLab	18-Nov-21	18-Nov-21	08-Apr-21	08-Apr-21	0%	1	\$110,455	Matt Howell															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Allocation																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028		
P.10.02.07.03.08	Supply End Can Procurement	07-Oct-19 A	03-Aug-21	24-Sep-19	27-Apr-21		45	\$898,546																													
P238P010	Supply End Can Procurement - A	07-Oct-19 A	20-Dec-19 A	24-Sep-19	30-Sep-19	100%	0	\$17,952	Matt Howell																												
P238P010b	Supply End Can Procurement - B	20-Dec-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$92,058	Matt Howell																												
P238P010c	Supply End Can Procurement - C	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$139,265	Matt Howell																												
P238P015	Vendor Effort Fabrication of Supply End Cans - Receipt of Majority of Raw Materials and Start of Fabrication	02-Mar-20 A	30-Mar-20 A	06-Jan-20	06-Apr-20	100%	0	\$0	Matt Howell																												
P238P025	Vendor Effort Fabrication of Supply End Can JT Bellows	02-Mar-20 A	27-May-20 A	06-Jan-20	27-May-20	100%	0	\$0	Matt Howell																												
P238P020	Accept Vendor Effort Fabrication of Supply End Cans - Receipt of Majority of Raw Materials and Start of Fabrication	31-Mar-20 A	31-Mar-20 A	07-Apr-20	07-Apr-20	100%	0	\$197,967	Matt Howell																												
P238P035	Vendor Effort Fabrication of Supply End Cans - Completion of Machined, Laser Cut, formed components and Slrt of Welding	01-Apr-20 A	01-Jun-20 A	08-Apr-20	02-Jul-20	100%	0	\$0	Matt Howell																												
P238P030	Accept Vendor Effort Fabrication of Supply End Can JT Bellows	28-May-20 A	28-May-20 A	28-May-20	28-May-20	100%	0	\$11,764	Matt Howell																												
P238P040	Accept Vendor Effort Fabrication of Supply End Cans - Completion of Machined, Laser Cut, formed components	01-Jun-20 A	01-Jun-20 A	06-Jul-20	06-Jul-20	100%	0	\$52,370	Matt Howell																												
P238P105	Vendor Effort Fabrication of ASME Code Compliant	01-Jun-20 A	15-Jul-20 A	28-May-20	10-Aug-20	100%	0	\$0	Matt Howell																												
P238P045	Vendor Effort Fabrication of Supply End Cans - Completion of Set #1 Supply End Can	01-Jul-20 A	23-Feb-21 A	07-Jul-20	18-Aug-20	100%	0	\$0	Matt Howell																												
P238P055	Vendor Effort Fabrication of Supply End Cans - Completion of Set #2 Supply End Can	01-Jul-20 A	24-Feb-21 A	20-Aug-20	16-Sep-20	100%	0	\$0	Matt Howell																												
P238P065	Vendor Effort Fabrication of Supply End Cans - Completion of Set #3 Supply End Can	01-Jul-20 A	20-Apr-21 A	18-Sep-20	12-Oct-20	100%	0	\$0	Matt Howell																												
P238P075	Vendor Effort Fabrication of Supply End Cans - Completion of Set #4 Supply End Can	01-Jul-20 A	21-Jun-21	14-Oct-20	30-Nov-20	0%	15	\$0	Matt Howell																												
P238P085	Vendor Effort Fabrication of Supply End Cans - Completion of Set #5 & #6 Supply End Can	01-Jul-20 A	18-Jun-21	02-Dec-20	17-Dec-20	0%	14	\$0	Matt Howell																												
P238P095	Vendor Effort Fabrication of Supply End Cans - Completion of Set #7 Supply End Can	01-Jul-20 A	02-Aug-21	04-Jan-21	21-Jan-21	0%	44	\$0	Matt Howell																												
P238P110	Accept Vendor Effort Fabrication of ASME Code Compliant	15-Jul-20 A	15-Jul-20 A	11-Aug-20	11-Aug-20	100%	0	\$36,593	Matt Howell																												
P238P115	Adjustment for October Rate Change BCR	01-Dec-20 A	01-Dec-20 A	01-Dec-20	01-Dec-20	100%	0	\$19	Matt Howell																												
P238P050	Accept Vendor Effort Fabrication of Supply End Cans - Completion of Set #1 Supply End Can	24-Feb-21 A	24-Feb-21 A	19-Aug-20	19-Aug-20	100%	0	\$53,254	Matt Howell																												
P238P060	Accept Vendor Effort Fabrication of Supply End Cans - Completion of Set #2 Supply End Can	25-Feb-21 A	20-Apr-21 A	17-Sep-20	17-Sep-20	100%	0	\$56,378	Matt Howell																												
P238P120	Accept Vendor Effort for Incentive Supply End Can Set 1	01-Apr-21 A	01-Apr-21 A	01-Apr-21	01-Apr-21	100%	0	\$10,887	Matt Howell																												
P238P125	Vendor Effort for Incentive Supply End Can Set 2	05-Apr-21 A	19-Apr-21 A	05-Apr-21	09-Apr-21	100%	0	\$0	Matt Howell																												
P238P135	Vendor Effort for Incentive Supply End Can Set 3	05-Apr-21 A	20-Apr-21 A	05-Apr-21	09-Apr-21	100%	0	\$0	Matt Howell																												
P238P130	Accept Vendor Effort for Incentive Supply End Can Set 2	20-Apr-21 A	20-Apr-21 A	12-Apr-21	12-Apr-21	100%	0	\$6,532	Matt Howell																												
P238P070	Accept Vendor Effort Fabrication of Supply End Cans - Completion of Set #3 Supply End Can	21-Apr-21 A	21-Apr-21 A	13-Oct-20	13-Oct-20	100%	0	\$56,695	Matt Howell																												
P238P140	Accept Vendor Effort for Incentive Supply End Can Set 3	21-Apr-21 A	21-Apr-21 A	12-Apr-21	12-Apr-21	100%	0	\$6,532	Matt Howell																												
P238P145	Vendor Effort for Incentive Supply End Can Set 4	01-Jun-21	07-Jun-21	13-Apr-21	19-Apr-21	0%	5	\$0	Matt Howell																												
P238P150	Accept Vendor Effort for Incentive Supply End Can Set 4	08-Jun-21	08-Jun-21	20-Apr-21	20-Apr-21	0%	1	\$6,532	Matt Howell																												
P238P155	Vendor Effort for Incentive Supply End Can Set 5	08-Jun-21	14-Jun-21	20-Apr-21	26-Apr-21	0%	5	\$0	Matt Howell																												
P238P165	Vendor Effort for Incentive Supply End Can Set 6	08-Jun-21	14-Jun-21	20-Apr-21	26-Apr-21	0%	5	\$0	Matt Howell																												
P238P160	Accept Vendor Effort for Incentive Supply End Can Set 5	15-Jun-21	15-Jun-21	27-Apr-21	27-Apr-21	0%	1	\$6,532	Matt Howell																												
P238P170	Accept Vendor Effort for Incentive Supply End Can Set 6	15-Jun-21	15-Jun-21	27-Apr-21	27-Apr-21	0%	1	\$6,532	Matt Howell																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P238P090	Accept Vendor Effort Fabrication of Supply End Cans - Completion of Set #5 & #6 Supply End Can	21-Jun-21	21-Jun-21	18-Dec-20	18-Dec-20	0%	1	\$55,913	Matt Howell															
P238P080	Accept Vendor Effort Fabrication of Supply End Cans - Completion of Set #4 Supply End Can	22-Jun-21	22-Jun-21	01-Dec-20	01-Dec-20	0%	1	\$55,913	Matt Howell															
P238P100	Accept Vendor Effort Fabrication of Supply End Cans - Completion of Set #7 Supply End Can	03-Aug-21	03-Aug-21	22-Jan-21	22-Jan-21	0%	1	\$28,857	Matt Howell															
<b>P.10.02.07.03.09 Return End Can Procurement</b>		<b>03-Sep-19 A</b>	<b>31-Aug-21</b>	<b>03-Sep-19</b>	<b>06-Aug-21</b>		<b>65</b>	<b>\$1,550,584</b>																
P239P010	Return End Can Procurement - A	03-Sep-19 A	20-Dec-19 A	03-Sep-19	30-Sep-19	100%	0	\$91,268	Matt Howell															
P239P010b	Return End Can Procurement - B	20-Dec-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$119,693	Matt Howell															
P239P010c	Return End Can Procurement - C	20-Dec-19 A	20-Dec-19 A	01-Nov-19	27-Nov-19	100%	0	\$97,079	Matt Howell															
P239P010d	Return End Can Procurement - D	20-Dec-19 A	20-Dec-19 A	02-Dec-19	20-Dec-19	100%	0	\$81,773	Matt Howell															
P239P015	Vendor Fabrication of Return End Can Heat Exchangers	06-Jan-20 A	21-Jul-20 A	06-Jan-20	18-May-20	100%	0	\$0	Matt Howell															
P239P035	Vendor Fabrication of Return End Cans - Receipt of Majority of Raw Materials and Start of Fabrication	02-Mar-20 A	30-Mar-20 A	06-Jan-20	06-Apr-20	100%	0	\$0	Matt Howell															
P239P045	Vendor Effort Fabrication of Return End Can JT Bellows	02-Mar-20 A	30-Apr-20 A	06-Jan-20	27-May-20	100%	0	\$0	Matt Howell															
P239P040	Accept Vendor Fabrication of Return End Cans - Receipt of Majority of Raw Materials and Start of Fabrication	31-Mar-20 A	31-Mar-20 A	07-Apr-20	07-Apr-20	100%	0	\$215,379	Matt Howell															
P239P055	Vendor Effort Fabrication of Return End Cans - Completion of Machined, Laser Cut, formed components	01-Apr-20 A	01-Jun-20 A	08-Apr-20	07-Jul-20	100%	0	\$0	Matt Howell															
P239P050	Accept Vendor Effort Fabrication of Return End Can JT Bellows	30-Apr-20 A	30-Apr-20 A	28-May-20	28-May-20	100%	0	\$3,274	Matt Howell															
P239P060	Accept Vendor Effort Fabrication of Return End Cans - Completion of Machined, Laser Cut, formed components	02-Jun-20 A	02-Jun-20 A	08-Jul-20	08-Jul-20	100%	0	\$58,137	Matt Howell															
P239P120	Adjustment activity for award and receive of Inspection of Inner Bellows (MOD 1) in May	15-Jun-20 A	15-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	\$2,211	Matt Howell															
P239P025	Vendor Effort Fabrication of Return End Cans - Completion of Set #1 Return End Can	01-Jul-20 A	23-Feb-21 A	08-Jul-20	18-Aug-20	100%	0	\$0	Matt Howell															
P239P065	Vendor Effort Fabrication of Return End Cans - Completion of Set #2 Return End Can	01-Jul-20 A	24-Feb-21 A	20-Aug-20	16-Sep-20	100%	0	\$0	Matt Howell															
P239P075	Vendor Effort Fabrication of Return End Cans - Completion of Set #3 Return End Can	01-Jul-20 A	21-Jun-21	18-Sep-20	12-Oct-20	0%	15	\$0	Matt Howell															
P239P085	Vendor Effort Fabrication of Return End Cans - Completion of Set #4 Return End Can	01-Jul-20 A	19-Jul-21	14-Oct-20	30-Nov-20	0%	34	\$0	Matt Howell															
P239P095	Vendor Effort Fabrication of Return End Cans - Completion of Set #5 & #6 Return End Can	01-Jul-20 A	16-Aug-21	02-Dec-20	17-Dec-20	0%	54	\$0	Matt Howell															
P239P110	Vendor Effort Fabrication of Return End Cans - Completion of Set #7 Return End Can	01-Jul-20 A	30-Aug-21	04-Jan-21	25-Jan-21	0%	64	\$0	Matt Howell															
P239P125	Vendor Effort Fabrication of Return End Cans - Receiving and Inspection of the seven (7) Heat Exchangers	01-Jul-20 A	25-Sep-20 A	29-May-20	30-Jun-20	100%	0	\$0	Matt Howell															
P239P135	Vendor Fabrication of Return End Can ASME Code Compliant	01-Jul-20 A	15-Jul-20 A	19-May-20	11-Aug-20	100%	0	\$0	Matt Howell															
P239P140	ACCEPT: Vendor Fabrication of Return End Can ASME Code Compliant	15-Jul-20 A	15-Jul-20 A	12-Aug-20	12-Aug-20	100%	0	\$49,187	Matt Howell															
P239P020	Accept Vendor Fabrication of Return End Can Heat Exchangers	22-Jul-20 A	22-Jul-20 A	19-May-20	19-May-20	100%	0	\$398,211	Matt Howell															
P239P130	Accept Vendor Effort Fabrication of Return End Cans - Receiving and Inspection of the seven (7) Heat Exchangers	28-Sep-20 A	28-Sep-20 A	01-Jul-20	01-Jul-20	100%	0	\$26,604	Matt Howell															
P239P145	Vendor Effort Return End Can Extended Testing on Five Heat Exchangers and Weld Repair on Two Heat Exchangers	01-Dec-20 A	08-Dec-20 A	02-Nov-20	08-Dec-20	100%	0	\$0	Matt Howell															
P239P155	Adjustment for October Rate Change BCR	02-Dec-20 A	02-Dec-20 A	02-Dec-20	02-Dec-20	100%	0	\$12	Matt Howell															
P239P150	Accept: Vendor Effort Return End Can Extended Testing on Five Heat Exchangers and Weld Repair on Two Heat Exchangers	09-Dec-20 A	09-Dec-20 A	09-Dec-20	09-Dec-20	100%	0	\$20,120	Matt Howell															
P239P030	Accept Vendor Effort Fabrication of Return End Cans - Completion of Set #1 Return End Can	23-Feb-21 A	15-Jun-21	19-Aug-20	19-Aug-20	66.67%	11	\$55,268	Matt Howell															
P239P070	Accept Vendor Effort Fabrication of Return End Cans - Completion of Set #2 Return End Can	25-Feb-21 A	25-Jun-21	17-Sep-20	17-Sep-20	66.67%	19	\$60,380	Matt Howell															
P239P160	Accept Vendor Effort for Incentive Return End Can Set 1	01-Jun-21*	01-Jun-21	01-Apr-21	01-Apr-21	0%	1	\$10,887	Matt Howell															





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2310P70	Adjustment to move Vendor Fabrication of Field Probe Cable	01-Jul-20 A	01-Jul-20 A	01-Jul-20	01-Jul-20	100%	0	(\$3,223)	Matt Howell															
P2310P65	ACCEPT: Vendor Fabrication of Field Probe Cable	02-Jul-20 A	02-Jul-20 A	05-Jun-20	05-Jun-20	100%	0	\$3,223	Matt Howell															
P2310P075	Additional Vendor Fabrication of Field Probe Cable	06-Jul-20 A	13-Nov-20 A	02-Jul-20	09-Dec-20	100%	0	\$0	Matt Howell															
P2310P085	Vendor Effort Fabrication of Gauge Assembly	06-Oct-20 A	03-Dec-20 A	06-Oct-20	17-Nov-20	100%	0	\$0	Matt Howell															
P2310P080	ACCEPT: Additional Vendor Fabrication of Field Probe Cable	16-Nov-20 A	16-Nov-20 A	10-Dec-20	10-Dec-20	100%	0	\$29,034	Matt Howell															
P2310P090	ACCEPT: Vendor Effort Fabrication of Gauge Assembly	03-Dec-20 A	03-Dec-20 A	18-Nov-20	18-Nov-20	100%	0	\$23,814	Matt Howell															
P2310P90	Adjustment for October Rate Change BCR	10-Dec-20 A	10-Dec-20 A	10-Dec-20	10-Dec-20	100%	0	\$320	Matt Howell															
P.10.02.07.03.11	<b>Tooling Procurement</b>	01-Oct-19 A	01-Jun-21	01-Oct-19	27-Jul-20		1	\$309,634																
P2311P030	Cavity/He Vessel Welding Tooling - A	01-Oct-19 A	05-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$10,053	Matt Howell															
P2311P010	End Can Support Tooling - A	01-Nov-19 A	20-Dec-19 A	21-Oct-19	31-Oct-19	100%	0	\$6,114	Matt Howell															
P2311P040	Warm to Cold Beam Tube Support - A	04-Nov-19 A	20-Dec-19 A	03-Oct-19	31-Oct-19	100%	0	\$3,946	Matt Howell															
P2311P035	CR Pump Drop Support - A	22-Nov-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$4,470	Matt Howell															
P2311P030b	Cavity/He Vessel Welding Tooling - B	06-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$15,195	Matt Howell															
P2311P015	Shipping Frame Procurement	20-Dec-19 A	20-Dec-19 A	05-Dec-19	20-Dec-19	100%	0	\$9,210	Matt Howell															
P2311P045	FPC Installation Tooling	20-Dec-19 A	20-Dec-19 A	05-Dec-19	20-Dec-19	100%	0	\$1,973	Matt Howell															
P2311P050	CR Valve Installation Support	20-Dec-19 A	20-Dec-19 A	11-Dec-19	20-Dec-19	100%	0	\$782	Matt Howell															
P2311P035b	CR Pump Drop Support - B	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$4,307	Matt Howell															
P2311P040b	Warm to Cold Beam Tube Support - B	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$4,046	Matt Howell															
P2311P010b	End Can Support Tooling - B	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$23,882	Matt Howell															
P2311P065	Vendor Effort CR Pump Drop Support	06-Jan-20 A	22-Apr-20 A	06-Jan-20	12-May-20	100%	0	\$0	Matt Howell															
P2311P095	Vendor Effort Fabrication of End Can Support Tooling	06-Jan-20 A	28-May-20 A	06-Jan-20	21-Jul-20	100%	0	\$0	Matt Howell															
P2311P105	Vendor Modification to Misc. Clean Room Tooling	06-Jan-20 A	01-Apr-21 A	06-Jan-20	03-Jun-20	100%	0	\$0	Matt Howell															
P2311P115	Vendor FPC Installation Tooling	06-Jan-20 A	01-Apr-20 A	06-Jan-20	15-Jun-20	100%	0	\$0	Matt Howell															
P2311P135	Vendor CR Bellows installation and support tooling	06-Jan-20 A	28-May-20 A	06-Jan-20	09-Jun-20	100%	0	\$0	Matt Howell															
P2311P145	Vendor Spaceframe Temp Pump Drop Support	06-Jan-20 A	01-May-20 A	06-Jan-20	28-May-20	100%	0	\$0	Matt Howell															
P2311P075	Vendor Effort Warm to Cold Beam Tube Support	03-Feb-20 A	30-Apr-20 A	06-Jan-20	18-May-20	100%	0	\$0	Matt Howell															
P2311P120	Accept Vendor FPC Installation Tooling	01-Apr-20 A	01-May-20 A	16-Jun-20	16-Jun-20	100%	0	\$16,130	Matt Howell															
P2311P165	Vendor Tank Support Plate Tooling	01-Apr-20 A	23-Apr-20 A	06-Jan-20	05-May-20	100%	0	\$0	Matt Howell															
P2311P070	Accept Vendor Effort CR Pump Drop Support	22-Apr-20 A	22-Apr-20 A	13-May-20	13-May-20	100%	0	\$4,551	Matt Howell															
P2311P170	Accept Vendor Effort Tank Support Plate Tooling	23-Apr-20 A	23-Apr-20 A	06-May-20	06-May-20	100%	0	\$9,101	Matt Howell															
P2311P080	Accept Vendor Effort Warm to Cold Beam Tube Support	30-Apr-20 A	30-Apr-20 A	19-May-20	19-May-20	100%	0	\$46,753	Matt Howell															
P2311P150	Accept Vendor Spaceframe Temp Pump Drop Support	01-May-20 A	01-May-20 A	29-May-20	29-May-20	100%	0	\$3,709	Matt Howell															
P2311P155	Vendor Fabrication of End Can Support Tooling	01-May-20 A	30-Jun-20 A	01-Jun-20	24-Jul-20	100%	0	\$0	Matt Howell															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2311P100	ACCEPT: Vendor Fabrication of Misc. Tooling Required for Cryomodule builds (Test Cave Transfer Line Material)	29-May-20 A	29-May-20 A	22-Jul-20	22-Jul-20	100%	0	\$40,062	Matt Howell															
P2311P140	Accept CR Bellows installation and support tooling	29-May-20 A	29-May-20 A	10-Jun-20	10-Jun-20	100%	0	\$30,021	Matt Howell															
P2311P160	ACCEPT: Vendor Fabrication of End Can Support Tooling	01-Jun-20 A	01-Jun-20 A	27-Jul-20	27-Jul-20	100%	0	\$52,374	Matt Howell															
P2311P180	Vendor Fabrication of Misc. Tooling Required for Cryomodule builds (HV Saddle/Bridge)	01-Jun-20 A	08-Jun-20 A	20-May-20	08-Jun-20	100%	0	\$0	Matt Howell															
P2311P175	Adjustment for May Labor	01-Jun-20 A	01-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	\$695	Matt Howell															
P2311P185	ACCEPT: Vendor Fabrication of Misc. Tooling Required for Cryomodule builds (HV Saddle/Bridge)	09-Jun-20 A	09-Jun-20 A	09-Jun-20	09-Jun-20	100%	0	\$2,081	Matt Howell															
P2311P110	Accept Vendor Modification to Misc. Clean Room Tooling	01-Apr-21 A	01-Jun-21	04-Jun-20	04-Jun-20	90%	1	\$20,179	Matt Howell															
<b>P.10.02.07.03.13</b>	<b>Magnetic Shielding Procurement</b>	<b>04-Nov-19 A</b>	<b>04-Aug-20 A</b>	<b>24-Sep-19</b>	<b>30-Jun-20</b>		<b>0</b>	<b>\$431,371</b>																
P2313P010	Magnetic Shielding Procurement - A	04-Nov-19 A	08-Nov-19 A	24-Sep-19	30-Sep-19	100%	0	\$9,042	Matt Howell															
P2313P010b	Magnetic Shielding Procurement - B	08-Nov-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$47,803	Matt Howell															
P2313P010c	Magnetic Shielding Procurement - C	20-Dec-19 A	20-Dec-19 A	01-Nov-19	27-Nov-19	100%	0	\$47,593	Matt Howell															
P2313P010d	Magnetic Shielding Procurement - D	20-Dec-19 A	20-Dec-19 A	02-Dec-19	20-Dec-19	100%	0	\$37,639	Matt Howell															
P2313P015	Vendor Effort Fab of Magnetic Shielding Existing Parts Inspection & Mod	06-Jan-20 A	02-Mar-20 A	06-Jan-20	13-Feb-20	100%	0	\$0	Matt Howell															
P2313P020	Accept Vendor Effort Fab of Magnetic Shielding Existing Parts Inspection & Mod	02-Mar-20 A	02-Mar-20 A	14-Feb-20	14-Feb-20	100%	0	\$21,712	Matt Howell															
P2313P025	Vendor Fabrication of Magnetic Shielding	01-May-20 A	04-Aug-20 A	17-Feb-20	29-Jun-20	100%	0	\$0	Matt Howell															
P2313P030	Accept Vendor Fabrication of Magnetic Shielding	04-Aug-20 A	04-Aug-20 A	30-Jun-20	30-Jun-20	100%	0	\$267,581	Matt Howell															
<b>P.10.02.07.03.15</b>	<b>Cleanroom String Assembly Procurement</b>	<b>02-Dec-19 A</b>	<b>17-May-21 A</b>	<b>24-Sep-19</b>	<b>07-Dec-20</b>		<b>0</b>	<b>\$1,165,834</b>																
P2315P010	Cleanroom String Assembly Procurement - A	02-Dec-19 A	20-Dec-19 A	24-Sep-19	30-Sep-19	100%	0	\$9,559	Matt Howell															
P2315P010b	Cleanroom String Assembly Procurement - B	20-Dec-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$50,537	Matt Howell															
P2315P010c	Cleanroom String Assembly Procurement - C	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$96,657	Matt Howell															
P2315P015	Vendor Effort Fabrication Titan 40 L/s ion pump	15-Jan-20 A	03-Feb-20 A	06-Jan-20	15-Jan-20	100%	0	\$0	Matt Howell															
P2315P020	Accept Vendor Effort Fabrication Titan 40 L/s ion pump	03-Feb-20 A	03-Feb-20 A	16-Jan-20	16-Jan-20	100%	0	\$26,597	Matt Howell															
P2315P025	Vendor Effort Fabrication of Gate valves VAT 482XX	03-Feb-20 A	28-Feb-20 A	06-Jan-20	24-Feb-20	100%	0	\$0	Matt Howell															
P2315P035	Vendor Fabrication of Beamline Bellows	03-Feb-20 A	01-Apr-20 A	06-Jan-20	11-Mar-20	100%	0	\$0	Matt Howell															
P2315P045	Vendor Fabrication of Supply and Return Warm to Cold Beamline Weldments	03-Feb-20 A	28-Oct-20 A	06-Jan-20	28-May-20	100%	0	\$0	Matt Howell															
P2315P055	Accept Fabrication of Warm to Cold Beamline Bellows Restraints	03-Feb-20 A	28-Oct-20 A	06-Jan-20	29-May-20	100%	0	\$0	Matt Howell															
P2315P065	Vendor Fabrication of VAT Right Angle Valve (Supply End)	03-Feb-20 A	27-Feb-20 A	06-Jan-20	20-Apr-20	100%	0	\$0	Matt Howell															
P2315P090	Additional Vendor Effort Fabrication Titan 40 L/s ion pump	03-Feb-20 A	30-Apr-20 A	17-Jan-20	17-Apr-20	100%	0	\$0	Matt Howell															
P2315P100	Vendor Fabrication of Cleanroom String Assembly Hardware	03-Feb-20 A	01-Jul-20 A	13-Mar-20	15-Jun-20	100%	0	\$0	Matt Howell															
P2315P95	Adjustment to move ion pump Receipt out	03-Feb-20 A	03-Feb-20 A	03-Feb-20	03-Feb-20	100%	0	(\$26,597)	Matt Howell															
P2315P075	Accept Fabrication of VAT Right Angle Valve (Supply End)	27-Feb-20 A	27-Feb-20 A	21-Apr-20	21-Apr-20	100%	0	\$10,649	Matt Howell															
P2315P115	Vendor Fabrication of Cleanroom Assembly Weldments	02-Mar-20 A	19-Jun-20 A	03-Mar-20	03-Mar-20	100%	0	\$0	Matt Howell															
P2315P110	Adjustment for Vendor Effort Fabrication of Gate valves VAT 482XX award	02-Mar-20 A	02-Mar-20 A	02-Mar-20	02-Mar-20	100%	0	(\$37,411)	Matt Howell															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P2315P030	Accept Vendor Effort Fabrication of Gate valves VAT 482XX	01-Apr-20 A	01-Apr-20 A	25-Feb-20	25-Feb-20	100%	0	\$96,673	Matt Howell															
P2315P040	Accept Fabrication of Beamline Bellows	01-Apr-20 A	01-Apr-20 A	12-Mar-20	12-Mar-20	100%	0	\$79,181	Matt Howell															
P2315P125	Vendor Effort Fabrication of Gate valves VAT 482XX First Delivery (Qty. 7)	02-Apr-20 A	03-Aug-20 A	03-Mar-20	11-Aug-20	100%	0	\$0	Matt Howell															
P2315P155	Adjustment for Award of Beamline Bellows	03-Apr-20 A	03-Apr-20 A	01-Apr-20	01-Apr-20	100%	0	(\$57,189)	Matt Howell															
P2315P160	Additional Vendor Fabrication of Beamline Bellows	06-Apr-20 A	02-Nov-20 A	02-Apr-20	27-May-20	100%	0	\$0	Matt Howell															
P2315P095	Accept Additional Vendor Effort Fabrication Titan 40 L/s ion pump	30-Apr-20 A	30-Apr-20 A	20-Apr-20	20-Apr-20	100%	0	\$17,601	Matt Howell															
P2315P080	Vendor Fabrication of SoftShut Valves (Line 1-5 valves)	01-May-20 A	05-Feb-21 A	01-Apr-20	07-Oct-20	100%	0	\$0	Matt Howell															
P2315P170	Vendor Fabrication of SoftShut Valves (Line 2-8 valves)	01-May-20 A	08-Mar-21 A	01-Apr-20	09-Nov-20	100%	0	\$0	Matt Howell															
P2315P180	Adjustment for Jlab April Labor	01-May-20 A	01-May-20 A	01-May-20	01-May-20	100%	0	(\$1,326)	Matt Howell															
P2315P120	Accept Vendor Fabrication of Cleanroom Assembly Weldments	23-Jun-20 A	23-Jun-20 A	04-Mar-20	04-Mar-20	100%	0	\$12,073	Matt Howell															
P2315P195	Adjustment for Additional Fabrication of Cleanroom String Assembly Hardware	01-Jul-20 A	01-Jul-20 A	01-Jul-20	01-Jul-20	100%	0	(\$16,114)	Matt Howell															
P2315P105	Accept Vendor Fabrication of Cleanroom String Assembly Hardware	02-Jul-20 A	02-Jul-20 A	16-Jun-20	16-Jun-20	100%	0	\$16,416	Matt Howell															
P2315P185	Additional Vendor Fabrication of Cleanroom String Assembly Hardware	06-Jul-20 A	31-Aug-20 A	17-Jun-20	11-Aug-20	100%	0	\$0	Matt Howell															
P2315P130	Accept Vendor Effort Fabrication of Gate valves VAT 482XX First Delivery (Qty. 7)	03-Aug-20 A	03-Aug-20 A	12-Aug-20	12-Aug-20	100%	0	\$199,039	Matt Howell															
P2315P135	Vendor Effort Fabrication of Gate valves VAT 482XX Second Delivery (Qty. 7)	03-Aug-20 A	21-Sep-20 A	13-Aug-20	12-Nov-20	100%	0	\$0	Matt Howell															
P2315P145	Vendor Effort Fabrication of Gate valves VAT 482XX Third Delivery (Qty. 2)	03-Aug-20 A	22-Sep-20 A	13-Aug-20	12-Nov-20	100%	0	\$0	Matt Howell															
P2315P190	Accept Additional Vendor Fabrication of Cleanroom String Assembly Hardware	31-Aug-20 A	31-Aug-20 A	12-Aug-20	12-Aug-20	100%	0	\$40,860	Matt Howell															
P2315P140	Accept Vendor Effort Fabrication of Gate valves VAT 482XX Second Delivery (Qty. 7)	22-Sep-20 A	22-Sep-20 A	13-Nov-20	13-Nov-20	100%	0	\$193,488	Matt Howell															
P2315P150	Accept Vendor Effort Fabrication of Gate valves VAT 482XX Third Delivery (Qty. 2) Including All Shipping Costs	23-Sep-20 A	04-Nov-20 A	13-Nov-20	13-Nov-20	100%	0	\$53,634	Matt Howell															
P2315P050	Accept Vendor Fabrication of Supply and Return Warm to Cold Beamline Weldments	28-Oct-20 A	28-Oct-20 A	29-May-20	29-May-20	100%	0	\$50,431	Matt Howell															
P2315P060	Accept Fabrication of Warm to Cold Beamline Bellows Restraints	29-Oct-20 A	29-Oct-20 A	01-Jun-20	01-Jun-20	100%	0	\$23,394	Matt Howell															
P2315P165	Accept additional Fabrication of Beamline Bellows	03-Nov-20 A	03-Nov-20 A	28-May-20	28-May-20	100%	0	\$52,721	Matt Howell															
P2315P200	Adjustment for October Rate Change BCR	07-Dec-20 A	07-Dec-20 A	07-Dec-20	07-Dec-20	100%	0	\$5,253	Matt Howell															
P2315P085	Accept Fabrication of SoftShut Valves (Line 1-5 valves)	08-Feb-21 A	08-Feb-21 A	08-Oct-20	08-Oct-20	100%	0	\$68,776	Matt Howell															
P2315P175	Accept Fabrication of SoftShut Valves (Line 2-8 valves)	09-Mar-21 A	17-May-21 A	10-Nov-20	10-Nov-20	100%	0	\$200,934	Matt Howell															
<b>P.10.02.07.03.16 Cold Mass Assembly Procurement</b>		<b>11-Nov-19 A</b>	<b>25-Jan-21 A</b>	<b>24-Sep-19</b>	<b>25-Sep-20</b>		<b>0</b>	<b>\$380,241</b>																
P2316P010	Cold Mass Assembly Procurement - A	11-Nov-19 A	20-Dec-19 A	24-Sep-19	30-Sep-19	100%	0	\$4,345	Matt Howell															
P2316P010b	Cold Mass Assembly Procurement - B	20-Dec-19 A	20-Dec-19 A	01-Oct-19	31-Oct-19	100%	0	\$23,846	Matt Howell															
P2316P010c	Cold Mass Assembly Procurement - C	20-Dec-19 A	20-Dec-19 A	01-Nov-19	20-Dec-19	100%	0	\$39,406	Matt Howell															
P2316P015	Vendor Fabrication of Large FPC/Tophat Bellows	06-Jan-20 A	03-Sep-20 A	06-Jan-20	03-Jun-20	100%	0	\$0	Matt Howell															
P2316P025	Vendor Fabrication of Helium Outlet Bellows	03-Feb-20 A	22-Jun-20 A	06-Jan-20	14-May-20	100%	0	\$0	Matt Howell															
P2316P035	Vendor Fabrication of Cold Mass Assembly Hardware	03-Feb-20 A	25-Sep-20 A	01-Apr-20	04-Aug-20	100%	0	\$0	Matt Howell															
P2316P045	Vendor Fabrication of Cold Mass Assembly Machined Parts	03-Feb-20 A	25-Jan-21 A	01-Apr-20	15-Jul-20	100%	0	\$0	Matt Howell															





Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Budgets																													
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028																	
P2318P255	Adjustment for receive of MDC Gate Valve Hardware	01-Jul-20 A	01-Jul-20 A	01-Jul-20	01-Jul-20	100%	0	\$3,699	Matt Howell																														
P2318P260	Vendor Fabrication of Final Cryomodule Assy Piping Kits	01-Jul-20 A	23-Feb-21 A	01-Jul-20	16-Sep-20	100%	0	\$0	Matt Howell																														
P2318P020	Accept Vendor Fabrication of Flange NW250 + feedthrough flange weld	09-Jul-20 A	09-Jul-20 A	23-Jan-20	23-Jan-20	100%	0	\$38,912	Matt Howell																														
P2318P240	Vendor Fabrication of 40L/s Ion Pump	14-Jul-20 A	21-Oct-20 A	14-Jul-20	31-Aug-20	100%	0	\$0	Matt Howell																														
P2318P060	Accept Vendor Fabrication of Flange Bank Assy	17-Jul-20 A	17-Jul-20 A	06-Mar-20	06-Mar-20	100%	0	\$29,889	Matt Howell																														
P2318P215	Accept Vendor Effort Fabrication of CM Rupture Disk Spool Assemblies Requisition	28-Jul-20 A	28-Jul-20 A	14-Jul-20	14-Jul-20	100%	0	\$16,526	Matt Howell																														
P2318P040	Accept Vendor Fabrication of Surge Tank	05-Aug-20 A	05-Aug-20 A	23-Jan-20	23-Jan-20	100%	0	\$3,720	Matt Howell																														
P2318P205	Accept Vendor Effort Fabrication of Coupler Return Piping	03-Sep-20 A	03-Sep-20 A	13-Jul-20	13-Jul-20	100%	0	\$20,179	Matt Howell																														
P2318P220	Vendor Fabrication of Supply Warm Beamtube Assembly	10-Sep-20 A	28-Jan-21 A	14-Jul-20	31-Aug-20	100%	0	\$0	Matt Howell																														
P2318P230	Vendor Fabrication of Return Warm Beamtube Assembly	10-Sep-20 A	28-Jan-21 A	14-Jul-20	31-Aug-20	100%	0	\$0	Matt Howell																														
P2318P125	Accept Vendor Effort Fabrication of JT Valves and Actuators Raw Materials	30-Sep-20 A	30-Sep-20 A	01-Oct-20	01-Oct-20	100%	0	\$94,024	Matt Howell																														
P2318P130	Fabricate CM#1 JT Valves (2) and actuators (3)	01-Oct-20 A	04-Dec-20 A	02-Oct-20	05-Mar-21	100%	0	\$0	Matt Howell																														
P2318P245	ACCEPT: Vendor Fabrication of 40L/s Ion Pump	21-Oct-20 A	21-Oct-20 A	01-Sep-20	01-Sep-20	100%	0	\$24,719	Matt Howell																														
P2318P135	Fabrication of CM#1 JT Valves (2) and actuators (3) Complete	01-Dec-20 A	30-Jul-21	08-Mar-21	08-Mar-21	25%	43	\$8,873	Matt Howell																														
P2318P140	Fabricate CM#2 JT Valves (2) and actuators (3)	01-Dec-20 A	04-Dec-20 A	09-Mar-21	17-May-21	100%	0	\$0	Matt Howell																														
P2318P145	Fabrication of CM#2 JT Valves (2) and actuators (3) Complete	01-Dec-20 A	30-Jul-21	18-May-21	18-May-21	25%	43	\$6,874	Matt Howell																														
P2318P150	Fabricate CM#3 JT Valves (2) and actuators (3)	01-Dec-20 A	04-Dec-20 A	19-May-21	13-Jul-21	100%	0	\$0	Matt Howell																														
P2318P155	Fabrication of CM#3 JT Valves (2) and actuators (3) Complete	01-Dec-20 A	30-Jul-21	14-Jul-21	14-Jul-21	25%	43	\$8,809	Matt Howell																														
P2318P160	Fabricate CM#4 JT Valves (2) and actuators (3)	01-Dec-20 A	04-Dec-20 A	15-Jul-21	01-Sep-21	100%	0	\$0	Matt Howell																														
P2318P165	Fabrication of CM#4 JT Valves (2) and actuators (3) Complete	01-Dec-20 A	30-Jul-21	02-Sep-21	02-Sep-21	25%	43	\$9,272	Matt Howell																														
P2318P170	Fabricate CM#5 JT Valves (2) and actuators (3)	01-Dec-20 A	04-Dec-20 A	03-Sep-21	27-Oct-21	100%	0	\$0	Matt Howell																														
P2318P175	Fabrication of CM#5 JT Valves (2) and actuators (3) Complete	01-Dec-20 A	30-Jul-21	28-Oct-21	28-Oct-21	25%	43	\$4,326	Matt Howell																														
P2318P180	Fabricate CM#6 JT Valves (2) and actuators (3)	01-Dec-20 A	04-Dec-20 A	29-Oct-21	04-Jan-22	100%	0	\$0	Matt Howell																														
P2318P185	Fabrication of CM#6 JT Valves (2) and actuators (3) Complete	01-Dec-20 A	30-Jul-21	05-Jan-22	05-Jan-22	25%	43	\$15,498	Matt Howell																														
P2318P190	Fabricate CM#7 JT Valves (2) and actuators (3)	01-Dec-20 A	04-Dec-20 A	06-Jan-22	01-Mar-22	100%	0	\$0	Matt Howell																														
P2318P195	Fabrication of CM#7 JT Valves (2) and actuators (3) Complete	01-Dec-20 A	30-Jul-21	02-Mar-22	02-Mar-22	25%	43	\$9,433	Matt Howell																														
P2318P270	Vendor Effort Fabrication of VAT Right Angle Valve (Supply Warm Beamtube Assembly)	01-Dec-20 A	08-Dec-20 A	02-Nov-20	08-Dec-20	100%	0	\$0	Matt Howell																														
P2318P280	Adjustment for October Rate Change BCR	01-Dec-20 A	01-Dec-20 A	10-Dec-20	10-Dec-20	100%	0	\$1,244	Matt Howell																														
P2318P275	Accept Vendor Effort Fabrication of VAT Right Angle Valve (Supply Warm Beamtube Assembly)	09-Dec-20 A	09-Dec-20 A	09-Dec-20	09-Dec-20	100%	0	\$5,768	Matt Howell																														
P2318P225	ACCEPT: Vendor Fabrication of Supply Warm Beamtube Assembly	29-Jan-21 A	29-Jan-21 A	01-Sep-20	01-Sep-20	100%	0	\$22,570	Matt Howell																														
P2318P235	ACCEPT: Vendor Fabrication of Return Warm Beamtube Assembly	29-Jan-21 A	29-Jan-21 A	01-Sep-20	01-Sep-20	100%	0	\$8,276	Matt Howell																														
P2318P265	ACCEPT: Vendor Fabrication of Final Cryomodule Assy Piping Kits	24-Feb-21 A	06-Apr-21 A	17-Sep-20	17-Sep-20	100%	0	\$125,691	Matt Howell																														
P2318P100	Accept Vendor Fabrication of 2in Pressure Relief Plates	27-May-21 A	27-May-21 A	21-Aug-20	21-Aug-20	100%	0	\$11,909	Matt Howell																														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P.10.02.08 Cryomodule Testing		01-Oct-19 A	10-Feb-20 A	03-Sep-19	26-Nov-19		0	\$25,369																
P.10.02.08.03 Procure/Fab - Cryomodule Testing		01-Oct-19 A	10-Feb-20 A	03-Sep-19	26-Nov-19		0	\$25,369																
P262P130	Procure cryomodule transport carts (2)	01-Oct-19 A	19-Nov-19 A	03-Sep-19	23-Sep-19	100%	0	\$525	Jeffrey Saunders															
P262P135	Fabricate cryomodule transport carts (2)	20-Nov-19 A	07-Feb-20 A	24-Sep-19	26-Nov-19	100%	0	\$0	Jeffrey Saunders															
P262P140	Receive cryomodule transport carts (2)	10-Feb-20 A	10-Feb-20 A	26-Nov-19	26-Nov-19	100%	0	\$24,844	Jeffrey Saunders															
P.10.02.09 Cryomodule in Tunnel		03-Sep-19 A	04-Mar-21 A	03-Sep-19	13-Aug-20		0	\$410,024																
P.10.02.09.03 Procure/Fab - Cryomodule in Tunnel		03-Sep-19 A	04-Mar-21 A	03-Sep-19	20-May-20		0	\$283,769																
P263P195	Procure helium for cryomodules	01-Oct-19 A	21-Oct-19 A	03-Sep-19	23-Sep-19	100%	0	\$525	Jeffrey Saunders															
P263P200	Fabricate helium for cryomodules	22-Oct-19 A	21-Nov-19 A	24-Sep-19	14-Oct-19	100%	0	\$0	Jeffrey Saunders															
P263P210	Receive helium for cryomodules	22-Nov-19 A	22-Nov-19 A	15-Oct-19	15-Oct-19	100%	0	\$43,859	Jeffrey Saunders															
P.10.02.09.03.01 Support Stands - Cryomodule in Tunnel		03-Sep-19 A	04-Mar-21 A	03-Sep-19	20-May-20		0	\$239,385																
P263P181	Prepare SOW and Tech Spec for Support Stands	03-Sep-19 A	16-Sep-19 A	03-Sep-19	16-Sep-19	100%	0	\$1,041	Jeffrey Saunders															
P263P176	Procurement Readiness Review (PRR) for Support Stands	17-Sep-19 A	23-Sep-19 A	17-Sep-19	23-Sep-19	100%	0	\$201	Jeffrey Saunders															
P263MS146	Technical Package to Procurement for Support Stands		23-Sep-19 A		23-Sep-19	100%	0	\$0	Jeffrey Saunders															
P263P171	Procurement Review and Bid for Support Stands	24-Sep-19 A	25-Sep-19 A	24-Sep-19	14-Oct-19	100%	0	\$804	Jeffrey Saunders															
P263MS151	Issue RFP for Support Stands		25-Sep-19 A		14-Oct-19	100%	0	\$0	Jeffrey Saunders															
P263P166	Solicitation Period for Support Stands	26-Sep-19 A	31-Oct-19 A	15-Oct-19	18-Nov-19	100%	0	\$2,507	Jeffrey Saunders															
P263P186	Review and award contract for Support Stands and Saddles	31-Oct-19 A	15-Nov-19 A	19-Nov-19	11-Dec-19	100%	0	\$840	Jeffrey Saunders															
P263MS156	Solicitation Complete for Support Stands		31-Oct-19 A		18-Nov-19	100%	0	\$0	Jeffrey Saunders															
P263MS161	Award Contract for Support Stands		01-Nov-19 A		11-Dec-19	100%	0	\$0	Jeffrey Saunders															
P263P191	Kick off Meeting and Development of Production Schedule	18-Nov-19 A	17-Dec-19 A	12-Dec-19	23-Jan-20	100%	0	\$0	Jeffrey Saunders															
P263MS225	Award Contract for Support Saddles		19-Nov-19 A		11-Dec-19	100%	0	\$0	Jeffrey Saunders															
P263P215	Payment MS - Completion of kick-off meeting and submittal of Production Schedule	18-Dec-19 A	18-Dec-19 A	24-Jan-20	24-Jan-20	100%	0	\$13,581	Jeffrey Saunders															
P263P225	Development of Manufacturing Plan and Dimensional Inspection Plan	19-Dec-19 A	28-Feb-20 A	27-Jan-20	21-Feb-20	100%	0	\$0	Jeffrey Saunders															
P263P235	Payment MS - Receipt & acceptance of Manufacturing Plan and Dimensional Inspection Plan	28-Feb-20 A	28-Feb-20 A	24-Feb-20	24-Feb-20	100%	0	\$27,132	Jeffrey Saunders															
P263P245	Fabrication of stands	28-Feb-20 A	09-Jun-20 A	25-Feb-20	19-May-20	100%	0	\$0	Jeffrey Saunders															
P263MS205	Fabrication Complete for Support Stands		10-Jun-20 A		20-May-20	100%	0	\$0	Jeffrey Saunders															
P263P255	Payment MS - Delivery & acceptance of CM Stands and final documentation	10-Jun-20 A	10-Jun-20 A	20-May-20	20-May-20	100%	0	\$94,962	Jeffrey Saunders															
P263P265	Development of Castings	01-Oct-20 A	12-Nov-20 A	12-Dec-19	15-Jan-20	100%	0	\$0	Jeffrey Saunders															
P263P275	Payment MS - Submittal of proof of receipt of Castings	13-Nov-20 A	13-Nov-20 A	16-Jan-20	16-Jan-20	100%	0	\$46,835	Jeffrey Saunders															
P263P285	Development of Saddle Machining	16-Nov-20 A	01-Mar-21 A	17-Jan-20	14-Feb-20	100%	0	\$0	Jeffrey Saunders															
P263P295	Payment MS - Satisfactory completion of Saddle Machining	01-Mar-21 A	01-Mar-21 A	17-Feb-20	17-Feb-20	100%	0	\$28,560	Jeffrey Saunders															
P263P305	Fabrication of Saddles	02-Mar-21 A	04-Mar-21 A	18-Feb-20	12-May-20	100%	0	\$0	Jeffrey Saunders															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P263P315	Payment MS - Delivery & acceptance of CM Saddles and final documentation	04-Mar-21 A	04-Mar-21 A	13-May-20	13-May-20	100%	0	\$22,922	Jeffrey Saunders															
P263MS235	Fabrication Complete for Saddles		04-Mar-21 A		13-May-20	100%	0	\$0	Jeffrey Saunders															
<b>P.10.02.09.04 Installation</b>		17-Jul-20 A	10-Sep-20 A	17-Jul-20	13-Aug-20		0	\$126,255																
P263I81	S&A on CM stand effort for CM installation	17-Jul-20 A	10-Sep-20 A	17-Jul-20	13-Aug-20	100%	0	\$60,883	Jeffrey Saunders															
P263I196	Install and grout (7) cryomodule stands in tunnel and in phase 0	17-Jul-20 A	09-Sep-20 A	17-Jul-20	13-Aug-20	100%	0	\$65,372	Jeffrey Saunders															
P263IMS04	Start Installation of CM Stands in Tunnel	17-Jul-20 A		17-Jul-20		100%	0	\$0	Jeffrey Saunders															
<b>P.10.02.10 Plasma Process MB Cryomodule</b>		01-Oct-19 A	02-Nov-20 A	03-Sep-19	04-Jan-21		0	\$305,709																
<b>P.10.02.10.03 Procure/Fab - Plasma Process MB Cryomodule</b>		01-Oct-19 A	02-Nov-20 A	03-Sep-19	04-Jan-21		0	\$305,709																
P264P51	Procure RF cart for MB	01-Oct-19 A	06-Jan-20 A	03-Sep-19	23-Sep-19	100%	0	\$525	Jeffrey Saunders															
P264P61	Procure materials and supplies for MB plasma	01-Oct-19 A	21-May-20 A	03-Sep-19	23-Sep-19	100%	0	\$541	Jeffrey Saunders															
P264P56	Fabricate RF cart for MB	07-Jan-20 A	25-Sep-20 A	24-Sep-19	26-Mar-20	100%	0	\$144,768	Jeffrey Saunders															
P264P130	Adjustment for Plasma Process Improved Strategy	01-May-20 A	01-May-20 A	01-May-20	01-May-20	100%	0	(\$78,530)	Jeffrey Saunders															
P264P120	Fabricate materials and supplies for MB plasma	13-May-20 A	20-May-20 A	24-Sep-19	07-Oct-19	100%	0	\$0	Jeffrey Saunders															
P264P125	Receive materials and supplies for MB plasma	21-May-20 A	22-May-20 A	08-Oct-19	08-Oct-19	100%	0	\$38,953	Jeffrey Saunders															
P264P195	Mechanical Assembly of RF Cart	25-May-20 A	30-Oct-20 A	04-May-20	28-Jul-20	100%	0	\$75,114	Jeffrey Saunders															
P264P180	Procure Pixie Crate for RF Cart	01-Jun-20 A	05-Jun-20 A	08-Jul-20	21-Jul-20	100%	0	\$558	Jeffrey Saunders															
P264P185	Fabricate Pixie Crate for RF Cart	08-Jun-20 A	12-Jun-20 A	22-Jul-20	30-Sep-20	100%	0	\$0	Jeffrey Saunders															
P264MS135	Fabrication of Pixie Crate for RF Cart Complete		12-Jun-20 A		30-Sep-20	100%	0	\$0	Jeffrey Saunders															
P264P190	Receive Pixie Crate for RF Cart	15-Jun-20 A	15-Jun-20 A	01-Oct-20	01-Oct-20	100%	0	\$15,600	Jeffrey Saunders															
P264P150	Procure Mechanical Components for RF Cart	01-Jul-20 A	08-Jul-20 A	01-Jun-20	05-Jun-20	100%	0	\$558	Jeffrey Saunders															
P264P155	Fabricate Mechanical Components for RF Cart	09-Jul-20 A	29-Jul-20 A	08-Jun-20	06-Jul-20	100%	0	\$0	Jeffrey Saunders															
P264MS125	Fabrication of Mechanical Components for RF Cart Complete		29-Jul-20 A		06-Jul-20	100%	0	\$0	Jeffrey Saunders															
P264P135	Procure RF Components for RF Cart	30-Jul-20 A	14-Aug-20 A	08-Jul-20	21-Jul-20	100%	0	\$558	Jeffrey Saunders															
P264P160	Receive Mechanical Components for RF Cart	30-Jul-20 A	30-Jul-20 A	07-Jul-20	07-Jul-20	100%	0	\$10,400	Jeffrey Saunders															
P264P165	Procure Amplifier for RF Cart	30-Jul-20 A	07-Aug-20 A	08-Jul-20	21-Jul-20	100%	0	\$558	Jeffrey Saunders															
P264P170	Fabricate Amplifier for RF Cart	07-Aug-20 A	12-Aug-20 A	22-Jul-20	30-Sep-20	100%	0	\$0	Jeffrey Saunders															
P264P200	Electrical/RF Integration of RF Cart	10-Aug-20 A	27-Oct-20 A	02-Oct-20	04-Jan-21	100%	0	\$28,799	Jeffrey Saunders															
P264MS130	Fabrication of Amplifier for RF Cart Complete		12-Aug-20 A		30-Sep-20	100%	0	\$0	Jeffrey Saunders															
P264P140	Fabricate RF Components for RF Cart	17-Aug-20 A	20-Aug-20 A	22-Jul-20	30-Sep-20	100%	0	\$0	Jeffrey Saunders															
P264P145	Receive RF Components for RF Cart	20-Aug-20 A	02-Nov-20 A	01-Oct-20	01-Oct-20	100%	0	\$32,177	Jeffrey Saunders															
P264MS120	Fabrication of RF Components for RF Cart Complete		20-Aug-20 A		30-Sep-20	100%	0	\$0	Jeffrey Saunders															
P264P175	Receive Amplifier for RF Cart	01-Sep-20 A	16-Sep-20 A	01-Oct-20	01-Oct-20	100%	0	\$35,131	Jeffrey Saunders															
P264MS115	Receive RF cart for MB		25-Sep-20 A		26-Mar-20	100%	0	\$0	Jeffrey Saunders															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
<b>P.10.02.11 Linac Beamline Vacuum Controls</b>		30-Sep-19 A	22-Jul-20 A	03-Sep-19	21-Apr-20		0	\$55,463																
<b>P.10.02.11.03 Procure/Fab - Linac Beamline Vacuum Controls</b>		30-Sep-19 A	22-Jul-20 A	03-Sep-19	21-Apr-20		0	\$55,463																
P272P101	Procure SCL PLC interface chassis- End (Phase 3)	30-Sep-19 A	24-Apr-20 A	03-Sep-19	23-Sep-19	100%	0	\$647	Karen White															
P272P106	Procure SCL PLC interface chassis- Middle (Phase 2)	30-Sep-19 A	24-Mar-20 A	03-Sep-19	23-Sep-19	100%	0	\$644	Karen White															
P272P111	Procure SCL PLC System End - System 9 and provide to Rack Builder (Phase 1)	30-Sep-19 A	24-Mar-20 A	03-Sep-19	23-Sep-19	100%	0	\$644	Karen White															
P272P116	Procure SCL Serial Hardware (Phase 1) Only for system 9	30-Sep-19 A	06-Apr-20 A	03-Sep-19	23-Sep-19	100%	0	\$216	Karen White															
P272P186	Procure vacuum controllers and vendor cables for beamline vacuum	02-Dec-19 A	12-Dec-19 A	03-Feb-20	21-Feb-20	100%	0	\$525	Karen White															
P272P141	Fabricate SCL PLC interface chassis- End (Phase 3)	25-Mar-20 A	29-Jun-20 A	24-Sep-19	07-Oct-19	100%	0	\$0	Karen White															
P272P146	Fabricate SCL PLC interface chassis- Middle (Phase 2)	25-Mar-20 A	29-Jun-20 A	24-Sep-19	07-Oct-19	100%	0	\$0	Karen White															
P272P151	Fabricate SCL PLC System End - System 9 and provide to Rack Builder (Phase 1)	25-Mar-20 A	29-Jun-20 A	24-Sep-19	07-Oct-19	100%	0	\$0	Karen White															
P272P156	Fabricate SCL Serial Hardware (Phase 1) Only for system 9	25-Mar-20 A	29-Jun-20 A	24-Sep-19	07-Oct-19	100%	0	\$0	Karen White															
P272P196	Fabricate vacuum controllers and vendor cables for beamline vacuum	25-Mar-20 A	21-Jul-20 A	24-Feb-20	20-Apr-20	100%	0	\$0	Karen White															
P272P161	Receive SCL PLC interface chassis- End (Phase 3)	29-Jun-20 A	29-Jun-20 A	08-Oct-19	08-Oct-19	100%	0	\$11,044	Karen White															
P272P166	Receive SCL PLC interface chassis- Middle (Phase 2)	29-Jun-20 A	29-Jun-20 A	08-Oct-19	08-Oct-19	100%	0	\$11,044	Karen White															
P272P171	Receive SCL PLC System End - System 9 and provide to Rack Builder (Phase 1)	29-Jun-20 A	29-Jun-20 A	08-Oct-19	08-Oct-19	100%	0	\$23,856	Karen White															
P272P176	Receive SCL Serial Hardware (Phase 1) Only for system 9	29-Jun-20 A	29-Jun-20 A	08-Oct-19	08-Oct-19	100%	0	\$3,579	Karen White															
P272P206	Receive vacuum controllers and vendor cables for beamline vacuum	22-Jul-20 A	22-Jul-20 A	21-Apr-20	21-Apr-20	100%	0	\$3,265	Karen White															
<b>P.10.02.12 Linac Insulating Vacuum System Controls</b>		30-Sep-19 A	21-May-20 A	03-Sep-19	21-Apr-20		0	\$122,923																
<b>P.10.02.12.03 Procure/Fab - Linac Insulating Vacuum System Controls</b>		30-Sep-19 A	21-May-20 A	03-Sep-19	21-Apr-20		0	\$122,923																
P273P96	Procure INS Vacuum PLC and Serial Hardware for System 7 (Phase 1)	30-Sep-19 A	20-Dec-19 A	03-Sep-19	23-Sep-19	100%	0	\$633	Karen White															
P273P101	Procure INS Vacuum PLC and Serial Hardware for System 8 (Phase 1)	30-Sep-19 A	20-Dec-19 A	03-Sep-19	23-Sep-19	100%	0	\$633	Karen White															
P273P160	Procure vacuum controllers and vendor cables for insulating vacuum	02-Dec-19 A	12-Dec-19 A	03-Feb-20	21-Feb-20	100%	0	\$525	Karen White															
P273P136	Fabricate INS Vacuum PLC and Serial Hardware for System 7 (Phase 1)	03-Feb-20 A	20-May-20 A	24-Sep-19	25-Nov-19	100%	0	\$0	Karen White															
P273P141	Fabricate INS Vacuum PLC and Serial Hardware for System 8 (Phase 1)	03-Feb-20 A	20-May-20 A	24-Sep-19	25-Nov-19	100%	0	\$0	Karen White															
P273P165	Fabricate vacuum controllers and vendor cables for insulating vacuum	03-Feb-20 A	20-May-20 A	24-Feb-20	20-Apr-20	100%	0	\$0	Karen White															
P273P146	Receive INS Vacuum PLC and Serial Hardware for System 7 (Phase 1)	21-May-20 A	21-May-20 A	26-Nov-19	26-Nov-19	100%	0	\$31,071	Karen White															
P273P151	Receive INS Vacuum PLC and Serial Hardware for System 8 (Phase 1)	21-May-20 A	21-May-20 A	26-Nov-19	26-Nov-19	100%	0	\$31,071	Karen White															
P273P170	Receive vacuum controllers and vendor cables for insulating vacuum	21-May-20 A	21-May-20 A	21-Apr-20	21-Apr-20	100%	0	\$58,991	Karen White															
<b>P.10.02.13 Cryomodule Controls</b>		01-Oct-19 A	20-Dec-19 A	01-Oct-19	26-Nov-19		0	\$19,885																
<b>P.10.02.13.03 Procure/Fab - Cryomodule Controls</b>		01-Oct-19 A	20-Dec-19 A	01-Oct-19	26-Nov-19		0	\$19,885																
P274P276	Procure Low Range Pressure Sensor	01-Oct-19 A	31-Oct-19 A	01-Oct-19	21-Oct-19	100%	0	\$525	Karen White															
P274P266	Procure High Range Pressure Sensor	01-Oct-19 A	31-Oct-19 A	01-Oct-19	21-Oct-19	100%	0	\$525	Karen White															
P274P281	Fabricate Low Range Pressure Sensor	01-Nov-19 A	20-Dec-19 A	22-Oct-19	25-Nov-19	100%	0	\$0	Karen White															









Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P324P110b	Fabricate waveguide for XMTR-31 (Shipment 1)	08-Jan-20 A	04-Mar-20 A	07-Jan-20	05-Mar-20	100%	0	\$0	John Moss															
P324P115	Fabricate waveguide for XMTR-30 (Shipment 2)	03-Feb-20 A	25-Mar-20 A	06-Mar-20	26-Mar-20	100%	0	\$0	John Moss															
P324P120	Fabricate waveguide for XMTR-28 (Shipment 3)	03-Feb-20 A	27-Mar-20 A	27-Mar-20	16-Apr-20	100%	0	\$0	John Moss															
P324P16	Receive and store waveguide for XMTR-31, Milestone Payment for Shipment 1	05-Mar-20 A	05-Mar-20 A	06-Mar-20	06-Mar-20	100%	0	\$174,424	John Moss															
P324P76	Receive and store waveguide for XMTR-30, Milestone Payment for Shipment 2	26-Mar-20 A	26-Mar-20 A	27-Mar-20	27-Mar-20	100%	0	\$175,240	John Moss															
P324P86	Receive and store waveguide for XMTR-28, Milestone Payment for Shipment 3	30-Mar-20 A	30-Mar-20 A	17-Apr-20	17-Apr-20	100%	0	\$175,240	John Moss															
P324P125	Fabricate waveguide for XMTR-27 (Shipment 4)	01-Apr-20 A	13-Apr-20 A	17-Apr-20	30-Apr-20	100%	0	\$0	John Moss															
P324P96	Receive and store waveguide for XMTR-27, Milestone Payment for Shipment 4	10-Apr-20 A	10-Apr-20 A	01-May-20	01-May-20	100%	0	\$175,240	John Moss															
P324P130	Fabricate waveguide for XMTR-25 (Shipment 5)	13-Apr-20 A	30-Apr-20 A	01-May-20	07-May-20	100%	0	\$0	John Moss															
P324P106	Receive and store waveguide for XMTR-25, Milestone Payment for Shipment 5	30-Apr-20 A	30-Apr-20 A	08-May-20	08-May-20	100%	0	\$175,240	John Moss															
<b>P.10.03.02.05 Circulators (SCL)</b>		01-Aug-19 A	29-Sep-21	01-Aug-19	17-Sep-21		85	\$686,760																
<b>P.10.03.02.05.03 Procure/Fab - Circulators (SCL) - (NEP32530)</b>		01-Aug-19 A	29-Sep-21	01-Aug-19	17-Sep-21		85	\$686,760																
P325P6	Procurement Readiness Review (PRR) for SCL Circulators	01-Aug-19 A	09-Aug-19 A	01-Aug-19	09-Aug-19	100%	0	\$0	John Moss															
P325MS1	Technical Package to Procurement for SCL Circulators (MS)		09-Aug-19 A		09-Aug-19	100%	0	\$0	John Moss															
P325P24	Procurement Review and Bid for SCL Circulators	03-Sep-19 A	20-Sep-19 A	03-Sep-19	14-Oct-19	100%	0	\$2,011	John Moss															
P325PMS18	Issue RFP for SCL Circulators (MS)		20-Sep-19 A		14-Oct-19	100%	0	\$0	John Moss															
P325P31	Solicitation Period for SCL Circulators	23-Sep-19 A	25-Oct-19 A	15-Oct-19	08-Jan-20	100%	0	\$4,156	John Moss															
P325PMS28	Solicitation Complete for SCL Circulators (MS)		25-Oct-19 A		08-Jan-20	100%	0	\$0	John Moss															
P325P21	Review and Award Contract for SCL Circulators	28-Oct-19 A	27-Nov-19 A	09-Jan-20	09-Jan-20	100%	0	\$6,426	John Moss															
P32MS11	Award Contract for SCL Circulators (MS)		27-Nov-19 A		09-Jan-20	100%	0	\$0	John Moss															
P325P45	SCL Circulators - Vendor Documentation Prep and Mobilization	02-Dec-19 A	10-Jan-20 A	10-Jan-20	10-Jan-20	100%	0	\$0	John Moss															
P325P46	Vendor SCL Circulators Design Development	13-Jan-20 A	16-Mar-20 A	13-Jan-20	24-Feb-20	100%	0	\$0	John Moss															
P325P126	Circulators Fabrication Oversight Support (LOE) (Part 1 Jan20 - Nov20)	13-Jan-20 A	30-Nov-20 A	13-Jan-20	30-Nov-20	100%	0	\$21,894	John Moss															
P325P36	Receipt and TPO Approval of Circulator Final Design (Milestone Payment #1)	17-Mar-20 A	17-Mar-20 A	25-Feb-20	25-Feb-20	100%	0	\$65,076	John Moss															
P325P61	Fabrication and Shipment of First Article Circulator	18-Mar-20 A	10-Feb-21 A	26-Feb-20	27-May-20	100%	0	\$0	John Moss															
P325P116	Receive and Test First Article circulator (Old)	01-Jul-20 A	01-Jul-20 A	28-May-20	29-May-20	100%	0	\$11,751	John Moss															
P325P116a	Receive and Test First Article circulator (Point Adjustment) PCRLL-2020-45)	02-Jul-20 A	02-Jul-20 A	01-Jul-20	02-Jul-20	100%	0	(\$11,751)	John Moss															
P325P196	Circulators Fabrication Oversight Support (LOE) (Part 2 Dec20 - Mar21)	01-Dec-20 A	31-Mar-21 A	01-Dec-20	31-Mar-21	100%	0	\$11,444	John Moss															
P325P116b	Receive and Test First Article circulator	11-Feb-21 A	11-Jun-21	30-Sep-20	26-Oct-20	20%	9	\$12,376	John Moss															
P325P51	Successful Completion of First Article High Power Test at ORNL (Milestone Payment #2) (Circ)	14-Jun-21	14-Jun-21	27-Oct-20	27-Oct-20	0%	1	\$119,952	John Moss															
P325P76	Fabrication of Batch 1 Circulators (9 units)	15-Jun-21	14-Jul-21	28-Oct-20	29-Jan-21	0%	21	\$0	John Moss															
P325P91	Shipment and Delivery of Batch 1 Circulators (9 Units)	15-Jul-21	21-Jul-21	26-Mar-21	01-Apr-21	0%	5	\$0	John Moss															
P325P96	Receive and Acceptance Test Batch 1 circulators (9 Units)	22-Jul-21	23-Jul-21	05-Apr-21	06-Apr-21	0%	2	\$5,121	John Moss															



Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P325P136	Fabrication of Batch 2 Circulators (9 units)	26-Jul-21	12-Aug-21	07-Apr-21	26-Apr-21	0%	14	\$0	John Moss															
P325P146	Fabrication of Batch 3 Circulators (9 units)	13-Aug-21	14-Sep-21	27-Apr-21	26-May-21	0%	22	\$0	John Moss															
P325P156	Shipment and Delivery of Batch 2 Circulators (9 Units)	13-Aug-21	19-Aug-21	27-Apr-21	03-May-21	0%	5	\$0	John Moss															
P325P176	Receive and Acceptance Test Batch 2 circulators (9 Units)	20-Aug-21	26-Aug-21	04-May-21	10-May-21	0%	5	\$5,121	John Moss															
P325P66	Completion and TPO Acceptance of Testing of Rem.Circulators at Seller's Facility prior to shipment (Milestone Pmt #3)	15-Sep-21	15-Sep-21	27-May-21	27-May-21	0%	1	\$275,184	John Moss															
P325P166	Shipment and Delivery of Batch 3 Circulators (9 Units)	15-Sep-21	21-Sep-21	27-May-21	03-Jun-21	0%	5	\$0	John Moss															
P325P186	Receive and Acceptance Test Batch 3 circulators (9 Units)	22-Sep-21	28-Sep-21	10-Sep-21	16-Sep-21	0%	5	\$5,121	John Moss															
P325P81	Satisfactory Completion of Delivery and Company Acceptance of all Circulators inc final docs (Milestone Payment #4)	29-Sep-21	29-Sep-21	17-Sep-21	17-Sep-21	0%	1	\$152,880	John Moss															
P.10.03.02.06 Water Loads (SCL)		01-Aug-19 A	17-Nov-21	01-Aug-19	29-Mar-21		120	\$239,910																
P.10.03.02.06.03 Procure/Fab - Water Loads (SCL) - (NEP32630)		01-Aug-19 A	17-Nov-21	01-Aug-19	29-Mar-21		120	\$239,910																
P326P6	Procurement Readiness Review (PRR) for SCL Water Loads	01-Aug-19 A	09-Aug-19 A	01-Aug-19	09-Aug-19	100%	0	\$0	John Moss															
P326MS001	Technical Package to Procurement for SCL Water Loads (MS)		09-Aug-19 A		09-Aug-19	100%	0	\$0	John Moss															
P326P11	Procurement Review and Bid for SCL water loads	03-Sep-19 A	23-Sep-19 A	03-Sep-19	23-Sep-19	100%	0	\$804	John Moss															
P326PMS015	Issue RFP for SCL Water Loads (MS)		23-Sep-19 A		23-Sep-19	100%	0	\$0	John Moss															
P326P017	Solicitation Period for SCL Water Loads	24-Sep-19 A	14-Oct-19 A	24-Sep-19	04-Nov-19	100%	0	\$2,484	John Moss															
P326PMS018	Solicitation Complete for SCL Water Loads (MS)		14-Oct-19 A		04-Nov-19	100%	0	\$0	John Moss															
P326P021	Review and Award Contract for SCL Water Loads	15-Oct-19 A	27-Nov-19 A	05-Nov-19	25-Nov-19	100%	0	\$5,166	John Moss															
P326MS020	Award Contract for SCL water loads (MS)		27-Nov-19 A		25-Nov-19	100%	0	\$0	John Moss															
P326P036	Fabricate Loads for XMTR-31 (Old)	06-Jan-20 A	06-Jan-20 A	26-Nov-19	20-Dec-19	100%	0	\$17,409	John Moss															
P326P036a	Fabricate Loads for XMTR-31 - Adjustment due to award	07-Jan-20 A	07-Jan-20 A	06-Jan-20	06-Jan-20	100%	0	(\$17,409)	John Moss															
P326P146	Water Loads Fabrication Oversight (LOE)	08-Jan-20 A	30-Nov-20 A	07-Jan-20	30-Nov-20	100%	0	\$7,881	John Moss															
P326P136	Vendor SCL Loads Design Development	08-Jan-20 A	16-Mar-20 A	07-Jan-20	06-Mar-20	100%	0	\$0	John Moss															
P326P36	Receipt and TPO Approval of Loads Final Design (Milestone Payment #1)	17-Mar-20 A	17-Mar-20 A	09-Mar-20	09-Mar-20	100%	0	\$33,803	John Moss															
P326P038	Fabrication and Shipment of First Article Load	18-Mar-20 A	05-Nov-20 A	10-Mar-20	31-Aug-20	100%	0	\$0	John Moss															
P326P156	Receive and Test First Article Load	02-Nov-20 A	30-Nov-20 A	01-Sep-20	01-Sep-20	100%	0	\$9,934	John Moss															
P326P040	Fabrication of Batch 1 Loads (14 Units)	04-Nov-20 A	05-Feb-21 A	03-Sep-20	04-Jan-21	100%	0	\$0	John Moss															
P326P46	Successful Completion of First Article High Power Test at ORNL (Milestone Payment #2)	30-Nov-20 A	30-Nov-20 A	02-Sep-20	02-Sep-20	100%	0	\$28,703	John Moss															
P326P76	Receive and Acceptance Test Batch 1 Loads (14 Units)	01-Feb-21 A	05-Feb-21 A	12-Jan-21	19-Jan-21	100%	0	\$7,281	John Moss															
P326P042	Shipment and Delivery of Batch 1 Loads (14 Units)	08-Feb-21 A	12-Feb-21 A	05-Jan-21	11-Jan-21	100%	0	\$0	John Moss															
P326P048	Fabrication of Batch 2 Loads (13 Units)	08-Feb-21 A	19-Mar-21 A	05-Jan-21	12-Feb-21	100%	0	\$0	John Moss															
P326P56	Completion and TPO Acceptance of Testing of Loads at Seller's Facility prior to shipment (Milestone Pmt #3)	22-Mar-21 A	22-Mar-21 A	19-Mar-21	19-Mar-21	100%	0	\$78,042	John Moss															
P326P166	Shipment and Delivery of Batch 2 Loads (13 Units)	22-Mar-21 A	26-Mar-21 A	15-Feb-21	19-Feb-21	100%	0	\$0	John Moss															
P326P176	Receive and Acceptance Test Batch 2 Loads (13 Units)	29-Mar-21 A	09-Apr-21 A	22-Mar-21	26-Mar-21	100%	0	\$7,281	John Moss															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Budget																												
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029															
P326P66	Satisfactory Completion of Delivery and Company Acceptance of all loads inc final docs (Milestone Payment #4)	12-Apr-21 A	30-Apr-21 A	29-Mar-21	29-Mar-21	100%	0	\$58,531	John Moss																													
P326P196	Repair of Batch 1 (10 ea) Loads at Vendor Facility and return to ORNL (NIB)	03-May-21 A	27-Jul-21			0%	40	\$0	John Moss																													
P326P206	Repair of Batch 2 (9 ea) Loads at Vendor Facility and return to ORNL (NIB)	28-Jul-21	22-Sep-21			0%	40	\$0	John Moss																													
P326P216	Repair of Batch 3 (9 ea) Loads at Vendor Facility and return to ORNL (NIB)	23-Sep-21	17-Nov-21			0%	40	\$0	John Moss																													
<b>P.10.03.06 New Linac Modulators</b>		01-Aug-19 A	30-Nov-21	01-Aug-19	02-Dec-21		127	\$4,607,684																														
<b>P.10.03.06.02 Transformer (New Linac Modulators)</b>		03-Sep-19 A	24-Jul-20 A	03-Sep-19	10-Jun-20		0	\$351,845																														
<b>P.10.03.06.02.03 Procure/Fab - Transformer (New Linac Modulators) - (NEP36230)</b>		03-Sep-19 A	24-Jul-20 A	03-Sep-19	10-Jun-20		0	\$351,845																														
P362P22	Prepare SOW and Tech Spec for transformers	03-Sep-19 A	24-Sep-19 A	03-Sep-19	24-Sep-19	100%	0	\$11,411	David E. Anderson																													
P362P32	Procurement Readiness Review (PRR) for transformers	25-Sep-19 A	30-Sep-19 A	25-Sep-19	01-Oct-19	100%	0	\$1,924	David E. Anderson																													
P362MS33	Technical Package to Procurement for transformers (MS)		01-Oct-19 A		01-Oct-19	100%	0	\$0	David E. Anderson																													
P362P42	Procurement Review and Bid for transformers	02-Oct-19 A	07-Oct-19 A	02-Oct-19	29-Oct-19	100%	0	\$1,679	David E. Anderson																													
P362MS88	Issue RFP for transformers (MS)		07-Oct-19 A		29-Oct-19	100%	0	\$0	David E. Anderson																													
P362P36	Solicitation Period for transformers	08-Oct-19 A	15-Oct-19 A	30-Oct-19	19-Dec-19	100%	0	\$5,191	David E. Anderson																													
P362MS98	Solicitation Complete for transformers (MS)		15-Oct-19 A		19-Dec-19	100%	0	\$0	David E. Anderson																													
P362P41	Review and Award Contract for transformers	16-Oct-19 A	18-Oct-19 A	04-Nov-19	04-Nov-19	100%	0	\$4,854	David E. Anderson																													
P362MS46	Award contract for transformers (MS)		18-Oct-19 A		04-Nov-19	100%	0	\$0	David E. Anderson																													
P362P51	Approve vendor drawings for transformer production	21-Oct-19 A	01-Nov-19 A	04-Nov-19	04-Nov-19	100%	0	\$4,761	David E. Anderson																													
P362P53	Fab MS1 XFMR for SCL-MOD-30 - Approval of Drawing	01-Nov-19 A	01-Nov-19 A	05-Nov-19	05-Nov-19	100%	0	\$94,482	David E. Anderson																													
P362P60	Fabricate 1350 kVA transformer for SCL-MOD-30	05-Nov-19 A	05-Jun-20 A	06-Nov-19	11-May-20	100%	0	\$0	David E. Anderson																													
P362P56	Travel for transformer factory acceptance tests	11-May-20 A	13-May-20 A	28-Apr-20	30-Apr-20	100%	0	\$7,324	David E. Anderson																													
P362P55	Fab MS2 XFMR for SCL-MOD-30 - Factory Acceptance Test	14-May-20 A	14-May-20 A	01-May-20	01-May-20	100%	0	\$110,110	David E. Anderson																													
P362P61	Receive 1350kVA transformer SCL-MOD30 (MS)		05-Jun-20 A		11-May-20	100%	0	\$0	David E. Anderson																													
P362P65	Fab MS3 receipt and acceptance of transformer and documentation within 30 days of shipment	24-Jul-20 A	24-Jul-20 A	10-Jun-20	10-Jun-20	100%	0	\$110,110	David E. Anderson																													
<b>P.10.03.06.03 SCR System</b>		03-Sep-19 A	24-Jul-20 A	03-Sep-19	11-Jun-20		0	\$206,687																														
<b>P.10.03.06.03.03 Procure/Fab - SCR System - (NEP36330)</b>		03-Sep-19 A	24-Jul-20 A	03-Sep-19	11-Jun-20		0	\$206,687																														
P363P90	Prepare SOW and Tech Spec for standard SCR system	03-Sep-19 A	23-Sep-19 A	03-Sep-19	23-Sep-19	100%	0	\$11,411	David E. Anderson																													
P363P100	Procurement Readiness Review (PRR) for standard SCR system	24-Sep-19 A	30-Sep-19 A	24-Sep-19	30-Sep-19	100%	0	\$1,924	David E. Anderson																													
P363MS108	Technical Package to Procurement for standard SCR system (MS)		30-Sep-19 A		30-Sep-19	100%	0	\$0	David E. Anderson																													
P363P110	Procurement Review and Bid for standard SCR system	02-Oct-19 A	17-Oct-19 A	01-Oct-19	21-Oct-19	100%	0	\$1,679	David E. Anderson																													
P363MS118	Issue RFP for standard SCR system (MS)		07-Oct-19 A		21-Oct-19	100%	0	\$0	David E. Anderson																													
P363P120	Solicitation Period for standard SCR system	08-Oct-19 A	15-Oct-19 A	22-Oct-19	04-Dec-19	100%	0	\$5,191	David E. Anderson																													
P363MS128	Solicitation Complete for standard SCR system (MS)		15-Oct-19 A		04-Dec-19	100%	0	\$0	David E. Anderson																													
P363P36	Review and Award Contract for standard SCR system for SCL-OD-30	16-Oct-19 A	18-Oct-19 A	04-Nov-19	04-Nov-19	100%	0	\$4,854	David E. Anderson																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P363P41	Approve vendor drawings for standard SCR production	18-Oct-19 A	01-Nov-19 A	05-Nov-19	05-Nov-19	100%	0	\$3,174	David E. Anderson																												
P363MS138	Award contract for standard SCR system for SCL-OD-30 (MS)		18-Oct-19 A		04-Nov-19	100%	0	\$0	David E. Anderson																												
P363P344	Fab MS1 SCR System for SCL-MOD-30 - Approval of Drawing	01-Nov-19 A	01-Nov-19 A	06-Nov-19	06-Nov-19	100%	0	\$51,378	David E. Anderson																												
P363P51a	Fabricate standard SCR system SCL-MOD-30	05-Nov-19 A	05-Jun-20 A	07-Nov-19	12-May-20	100%	0	\$0	David E. Anderson																												
P363P46	Factory acceptance testing for standard SCR	11-May-20 A	13-May-20 A	29-Apr-20	01-May-20	100%	0	\$7,324	David E. Anderson																												
P363P321	Fab MS2 SCR System for SCL-MOD-30 - Factory Acceptance Test	14-May-20 A	14-May-20 A	04-May-20	04-May-20	100%	0	\$59,876	David E. Anderson																												
P363P51	Receive standard SCR system SCL-MOD-30 (MS)		05-Jun-20 A		12-May-20	100%	0	\$0	David E. Anderson																												
P363P354	Fab MS3 SCR System for SCL-MOD-30 - receipt and acceptance of SCR and documentation within 30 days of shipment	24-Jul-20 A	24-Jul-20 A	11-Jun-20	11-Jun-20	100%	0	\$59,876	David E. Anderson																												
<b>P.10.03.06.04 Modulator system</b>		01-Aug-19 A	30-Nov-21	01-Aug-19	02-Dec-21		127	\$4,049,152																													
<b>P.10.03.06.04.03 Procure/Fab - Modulator System - (NEP36430)</b>		01-Aug-19 A	30-Nov-21	01-Aug-19	02-Dec-21		127	\$4,049,152																													
<b>P.10.03.06.04.03.01 Modulator</b>		01-Aug-19 A	22-Nov-21	01-Aug-19	24-Nov-21		123	\$3,745,250																													
P364P41	Prepare SOW and Tech Spec for AT-HVCM build to print modulators	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	David E. Anderson																												
P364P41b	Prepare SOW and Tech Spec for AT-HVCM build to print modulators - Continued	03-Sep-19 A	23-Sep-19 A	03-Sep-19	17-Sep-19	100%	0	\$761	David E. Anderson																												
P364P130	Procurement Readiness Review (PRR) for AT-HVCM build to print modulators	24-Sep-19 A	30-Sep-19 A	18-Sep-19	24-Sep-19	100%	0	\$1,924	David E. Anderson																												
P364MS148	Technical Package to Procurement for AT-HVCM build to print modulators (MS)		30-Oct-19 A		24-Sep-19	100%	0	\$0	David E. Anderson																												
P364P140	Procurement Review and Bid for AT-HVCM build to print modulators	30-Oct-19 A	05-Nov-19 A	25-Sep-19	05-Nov-19	100%	0	\$1,679	David E. Anderson																												
P364MS158	Issue RFP for AT-HVCM build to print modulators (MS)		01-Nov-19 A		05-Nov-19	100%	0	\$0	David E. Anderson																												
P364P36	Solicitation Period for AT-HVCM build to print modulators	01-Nov-19 A	21-Feb-20 A	06-Nov-19	14-Feb-20	100%	0	\$54,450	David E. Anderson																												
P364MS168	Solicitation Complete for AT-HVCM build to print modulators (MS)		21-Feb-20 A		14-Feb-20	100%	0	\$0	David E. Anderson																												
P364P46	Review and Award Contract for 4 AT-HVCM build to print modulators	24-Feb-20 A	07-Apr-20 A	17-Feb-20	13-Apr-20	100%	0	\$28,723	David E. Anderson																												
P364P51	Award contract for 3 AT-HVCM build to print modulators (MS)		07-Apr-20 A		13-Apr-20	100%	0	\$0	David E. Anderson																												
P364P52	1st AT-HVCM - Vendor Document Prep and Mobilization	08-Apr-20 A	30-Apr-20 A	14-Apr-20	11-May-20	100%	0	\$0	David E. Anderson																												
P364P251	Procure and receive oil for modulator for SCL-MOD-30 (3 totes/modulator; 330 gal/tote) (OLD)	01-Jun-20 A	01-Jun-20 A	14-Apr-20	11-May-20	100%	0	\$15,023	David E. Anderson																												
P364P53	Fabricate 1st AT-HVCM build to print modulator (SCL-MOD-30) (OLD)	01-Jun-20 A	01-Jun-20 A	12-May-20	29-May-20	100%	0	\$5,061	David E. Anderson																												
P364P53a	Fabricate 1st AT-HVCM build to print modulator (SCL-MOD-30) (Point Adjustment)	01-Jun-20 A	01-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	\$1,196	David E. Anderson																												
P364P251a	Procure and receive oil for modulator for SCL-MOD-30 (3 totes/modulator; 330 gal/tote) (Adjustment activity)	01-Jun-20 A	01-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	(\$15,023)	David E. Anderson																												
P364P890	MS 1 Completion of Kickoff meeting	01-Jun-20 A	01-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	\$30,398	David E. Anderson																												
P364P53b	Fabricate 1st AT-HVCM build to print modulator (SCL-MOD-30)	02-Jun-20 A	27-Jul-21	02-Jun-20	06-Jul-21	75%	40	\$0	David E. Anderson																												
P364P930	AT-HVCM Fabrication Oversight FY20 (Jun20-Feb21) (LOE)	02-Jun-20 A	01-Mar-21 A	02-Jun-20	26-Feb-21	100%	0	\$52,467	David E. Anderson																												
P364P900	MS 2 Successful Completion of Project Execution Review	24-Jun-20 A	24-Jun-20 A	24-Jun-20	24-Jun-20	100%	0	\$445,740	David E. Anderson																												
P364P935	Procure AT-HVCM vendor consultant contract	03-Aug-20 A	16-Sep-20 A	03-Aug-20	31-Aug-20	100%	0	\$907	David E. Anderson																												
P364P1080	Procure and Receive Alodine Upgrade for Aluminum Parts	10-Sep-20 A	30-Sep-20 A	10-Sep-20	07-Oct-20	100%	0	\$11,856	David E. Anderson																												
P364P942	Subcontract for COVID-19 oversight of vendor effort (LOE)	16-Sep-20 A	01-Apr-21 A	01-Sep-20	01-Apr-21	100%	0	\$49,351	David E. Anderson																												

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1										13-Aug-21 10:10																											
Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028		29			
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F
P364P910	MS 3 Receipt of purchased component parts for three (3) modulators (Old LL-2020-59)	02-Nov-20 A	02-Nov-20 A	08-Sep-20	08-Sep-20	100%	0	\$663,000	David E. Anderson																														
P364P950	Vendor Visit 1 Receipt of COTS 80% trip (Old LL-2020-59)	03-Nov-20 A	05-Nov-20 A	09-Sep-20	11-Sep-20	100%	0	\$4,972	David E. Anderson																														
P364P910a	MS 3 Receipt of purchased component parts for three (3) modulators (Point Adj. LL-2021-02)	03-Nov-20 A	03-Nov-20 A	01-Oct-20	01-Oct-20	100%	0	(\$663,000)	David E. Anderson																														
P364P950a	Vendor Visit 1 Receipt of COTS 80% trip (Point Adj LL-2021-02)	06-Nov-20 A	10-Nov-20 A	01-Oct-20	05-Oct-20	100%	0	(\$4,972)	David E. Anderson																														
P364P910b	MS 3 Receipt of 40% purchased component parts for three (3) modulators	01-Dec-20 A	01-Dec-20 A	01-Dec-20	01-Dec-20	100%	0	\$331,500	David E. Anderson																														
P364P1210	Vendor Discrepancy Mod 1	02-Dec-20 A	12-Jan-21 A	02-Dec-20	12-Jan-21	100%	0	\$32,100	David E. Anderson																														
P364P920	MS 4 Receipt of 40% fabricated mechanical parts for three (3) modulators	16-Dec-20 A	16-Dec-20 A	16-Dec-20	16-Dec-20	100%	0	\$280,500	David E. Anderson																														
P364P950b	Vendor Visit - Receipt of COTS 80% trip	24-Feb-21 A	26-Feb-21 A	03-Feb-21	05-Feb-21	100%	0	\$5,141	David E. Anderson																														
P364P912	MS 3a Receipt of 80% purchased component parts for three (3) modulators	26-Feb-21 A	26-Feb-21 A	02-Feb-21	02-Feb-21	100%	0	\$338,000	David E. Anderson																														
P364P940	AT-HVCM Fabrication Oversight FY21 (Mar21-Nov21)(LOE)	02-Mar-21 A	15-Nov-21	01-Mar-21	15-Nov-21	34.81%	118	\$22,868	David E. Anderson																														
P364P1200	MS 4a Receipt of 80% fabricated mechanical parts for three (3) modulators	19-Mar-21 A	19-Mar-21 A	02-Feb-21	02-Feb-21	100%	0	\$286,000	David E. Anderson																														
P364P1030	Vendor Visit - Receipt of Fabricated parts 80% trip	22-Mar-21 A	24-Mar-21 A	03-Feb-21	05-Feb-21	100%	0	\$1,714	David E. Anderson																														
P364P1100	Vendor XFMR Design Change Cost	01-Apr-21 A	26-May-21 A	04-Nov-20	30-Apr-21	100%	0	\$10,400	David E. Anderson																														
P364P251b	Procure oil for modulators	03-May-21 A	07-May-21 A	03-May-21	07-May-21	100%	0	\$207	David E. Anderson																														
P364P254	Fabricate oil for modulators	10-May-21 A	03-Aug-21	10-May-21	03-Aug-21	15%	45	\$0	David E. Anderson																														
P364P970	Vendor Visit - IGBT Switch plate assembly support 1st article	17-Jun-21	23-Jun-21	09-Dec-20	15-Dec-20	0%	5	\$5,141	David E. Anderson																														
P364P1040	Vendor Visit - IGBT Test Stand setup	17-Jun-21	24-Jun-21	11-Mar-21	18-Mar-21	0%	6	\$7,226	David E. Anderson																														
P364P1050	Vendor Visit - Main tank assembly 1st article	12-Jul-21	14-Jul-21	17-May-21	19-May-21	0%	3	\$3,428	David E. Anderson																														
P364P54	Fabricate 2nd AT-HVCM build to print modulator (SCL-MOD-28)	28-Jul-21	18-Aug-21	07-Jul-21	18-Aug-21	0%	16	\$0	David E. Anderson																														
P364P1000	Vendor Visit - Full system test controller setup	28-Jul-21	03-Aug-21	24-May-21	28-May-21	0%	5	\$10,653	David E. Anderson																														
P364P1060	Vendor Visit - High power FAT test	28-Jul-21	03-Aug-21	29-Jun-21	06-Jul-21	0%	5	\$11,194	David E. Anderson																														
P364P68	MS 5 Completion of FAT 1st AT-HVCM and Shipment to ORNL	04-Aug-21	04-Aug-21	07-Jul-21	07-Jul-21	0%	1	\$551,772	David E. Anderson																														
P364P258	Receive oil for modulator for SCL-MOD-30	04-Aug-21	04-Aug-21	04-Aug-21	04-Aug-21	0%	1	\$29,475	David E. Anderson																														
P364P66	Receive and Inspect 1st AT-HVCM build to print modulators (SCL-MOD-30)	05-Aug-21	11-Aug-21	08-Jul-21	14-Jul-21	0%	5	\$17,086	David E. Anderson																														
P364P820	Install 1st AT-HVCM in HEBT Service Building for Onsite acceptance test	12-Aug-21	18-Aug-21	15-Jul-21	21-Jul-21	0%	5	\$13,658	David E. Anderson																														
P364P55	Fabricate 3rd AT-HVCM build to print modulator (SCL-MOD-25)	19-Aug-21	15-Nov-21	19-Aug-21	17-Nov-21	0%	62	\$0	David E. Anderson																														
P364P830	Test 1st AT-HVCM in HEBT Service Building for OSAT	19-Aug-21	09-Sep-21	22-Jul-21	11-Aug-21	0%	15	\$8,015	David E. Anderson																														
P364P1070	Vendor Visit 8 Article 2/3 contingency visit	19-Aug-21	23-Aug-21	19-Aug-21	23-Aug-21	0%	3	\$7,766	David E. Anderson																														
P364P840	Decommission 1st AT-HVCM in HEBT Service Building, prep for installation	10-Sep-21	15-Sep-21	12-Aug-21	17-Aug-21	0%	4	\$9,551	David E. Anderson																														
P364P850	MS 6 Completion of SAR & SAT 1st AT-HVCM at ORNL	16-Sep-21	16-Sep-21	18-Aug-21	18-Aug-21	0%	1	\$390,000	David E. Anderson																														
P364P870	MS 7 Completion of FAT 2nd AT-HVCM and Shipment to ORNL	17-Sep-21	17-Sep-21	19-Aug-21	19-Aug-21	0%	1	\$236,638	David E. Anderson																														
P364P296	Receive and Inspect 2nd AT-HVCM build to print modulators (SCL-MOD-28)	20-Sep-21	24-Sep-21	20-Aug-21	26-Aug-21	0%	5	\$17,086	David E. Anderson																														
P364P880	MS 8 Completion of FAT 3rd AT-HVCM and Shipment to ORNL	15-Nov-21	15-Nov-21	17-Nov-21	17-Nov-21	0%	1	\$416,000	David E. Anderson																														



Table with columns: Activity ID, Activity Name, Start, Finish, BL Start, BL Finish, % Complete, Rem Dur, Budgeted Total Cost, CAM, FY2016-FY2028 (budget grid), 29. Contains activity details for Modulator GFE, Oil Cooling Systems, and Vendor Test Equipment GFE.

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY																													
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029		
P.10.03.07	Utilities	03-Sep-19 A	26-Feb-21 A	03-Sep-19	16-Mar-21		0	\$854,493																															
P.10.03.07.02	Water Utilities - New Cold Linac SCL RF Cooling System (KL-06)	03-Sep-19 A	03-Feb-20 A	03-Sep-19	30-Jan-20		0	\$149,530																															
P.10.03.07.02.03	Procure/Fab - Water Utilities New Cold Linac SCL RF Cooling System (KL-06) (NEP3723)	03-Sep-19 A	03-Feb-20 A	03-Sep-19	30-Jan-20		0	\$149,530																															
P372P61	Procure and Award Two Pumps for KL06	03-Sep-19 A	23-Sep-19 A	03-Sep-19	23-Sep-19	100%	0	\$503	Greg Noman																														
P372P400	Procure and Award Heat Exchanger for KL06	03-Sep-19 A	23-Sep-19 A	03-Sep-19	23-Sep-19	100%	0	\$503	Greg Noman																														
P372P404	Fabricate Heat Exchanger for KL06	24-Sep-19 A	10-Oct-19 A	24-Sep-19	04-Dec-19	100%	0	\$37,230	Greg Noman																														
P372P365	Fabricate Two Pumps for KL06	24-Sep-19 A	03-Feb-20 A	24-Sep-19	30-Jan-20	100%	0	\$111,295	Greg Noman																														
P372P410	Heat Exchanger for KL06 on site (MS)		10-Oct-19 A		04-Dec-19	100%	0	\$0	Greg Noman																														
P372MS031	Pumps for KL06 on site (MS)		03-Feb-20 A		30-Jan-20	100%	0	\$0	Greg Noman																														
P.10.03.07.07	Electrical	03-Sep-19 A	26-Feb-21 A	03-Sep-19	16-Mar-21		0	\$704,963																															
P.10.03.07.07.03	Procure/Fab - Electrical - (NEP37730)	03-Sep-19 A	26-Feb-21 A	03-Sep-19	16-Mar-21		0	\$619,873																															
P.10.03.07.07.03.01	General Electrical Procurement	03-Sep-19 A	26-Feb-21 A	03-Sep-19	16-Mar-21		0	\$312,097																															
P377P224	Procure HPRF (TX) and LLRF (RFC) Cables	03-Sep-19 A	14-Feb-20 A	03-Sep-19	07-Oct-19	100%	0	\$105	Greg Noman																														
P377P225	Fabricate HPRF (TX) and LLRF (RFC) Cables	17-Feb-20 A	21-Feb-20 A	08-Oct-19	11-Dec-19	100%	0	\$0	Greg Noman																														
P377P236	Fabrication of HPRF (TX) and LLRF (RFC) Cables Complete (MS)		21-Feb-20 A		11-Dec-19	100%	0	\$0	Greg Noman																														
P377P226	Receive HPRF (TX) and LLRF (RFC) Cables	24-Feb-20 A	15-May-20 A	12-Dec-19	12-Dec-19	100%	0	\$235,956	Greg Noman																														
P377P226a	Receive HPRF (TX) and LLRF (RFC) Cables - Adjustment	02-Mar-20 A	02-Mar-20 A	02-Mar-20	02-Mar-20	100%	0	(\$96,436)	Greg Noman																														
P377P246	Investigate and Procure Helix Cables	01-May-20 A	18-May-20 A	01-Apr-20	13-May-20	100%	0	\$7,984	Greg Noman																														
P377P256	Fabrication of Helix Cables	01-Jun-20 A	18-Aug-20 A	14-May-20	04-Sep-20	100%	0	\$0	Greg Noman																														
P377P266	Fabrication of Helix Cables Complete (MS)		18-Aug-20 A		04-Sep-20	100%	0	\$0	Greg Noman																														
P377P277	Receive Helix Cables	19-Aug-20 A	21-Sep-20 A	08-Sep-20	08-Sep-20	100%	0	\$88,452	Greg Noman																														
P377P280	Procure Long Lead Times-Microwave Cable	01-Oct-20 A	21-Oct-20 A	01-Oct-20	21-Oct-20	100%	0	\$116	Greg Noman																														
P377P282	Fabricate Long Lead Times-Microwave Cable	22-Oct-20 A	26-Feb-21 A	22-Oct-20	15-Mar-21	100%	0	\$0	Greg Noman																														
P377P284	Receive Long Lead Times-Microwave Cable	26-Feb-21 A	26-Feb-21 A	16-Mar-21	16-Mar-21	100%	0	\$75,920	Greg Noman																														
P.10.03.07.07.03.03	Cryomodule Controls Cabling Procurement	03-Sep-19 A	28-Feb-20 A	03-Sep-19	12-Dec-19		0	\$22,532																															
P377P295	Procure Beam Line interface materials for all new CMs (tray, Din rail and terminal blocks)	03-Sep-19 A	27-Nov-19 A	03-Sep-19	07-Oct-19	100%	0	\$104	Greg Noman																														
P377P297	Fabricate Beam Line interface materials for all new CMs (tray, Din rail and terminal blocks)	02-Dec-19 A	24-Jan-20 A	08-Oct-19	11-Dec-19	100%	0	\$0	Greg Noman																														
P377P300	Receive Beam Line interface materials for all new CMs (tray, Din rail and terminal blocks)	27-Jan-20 A	28-Feb-20 A	12-Dec-19	12-Dec-19	100%	0	\$22,429	Greg Noman																														
P377P298	Fabricate of Beam Line interface materials for all new CMs Complete (MS)		28-Feb-20 A		11-Dec-19	100%	0	\$0	Greg Noman																														
P.10.03.07.07.03.06	HVCM Cabling Procurement	03-Sep-19 A	15-May-20 A	03-Sep-19	06-Apr-20		0	\$285,244																															
P377P112	Procure HVCM OKOGARD [Loxamur], 4/0, Dielectric Output Cables Lugs_Splice Kits etc	03-Sep-19 A	14-Feb-20 A	03-Sep-19	07-Oct-19	100%	0	\$105	Greg Noman																														
P377P606	Procure Cable Tray, Hardware, and Ground Plane necessary for Tech. Equip Installation	03-Sep-19 A	14-Feb-20 A	03-Sep-19	07-Oct-19	100%	0	\$105	Greg Noman																														
P377P227	Procure 3 HVCM controls racks	05-Sep-19 A	27-Nov-19 A	05-Sep-19	02-Oct-19	100%	0	\$104	Greg Noman																														







Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P621P146	Technical Package to Procurement for Klystron Gallery Construction (MS)		23-Jul-19 A		23-Jul-19	100%	0	\$0	Mark Connell															
P621P76	Procurement Readiness Review (PRR) for Klystron Gallery Construction	01-Aug-19 A	08-Aug-19 A	01-Aug-19	08-Aug-19	100%	0	\$0	Mark Connell															
P621P156	Technical Package to Procurement for Klystron Gallery Construction		08-Aug-19 A		08-Aug-19	100%	0	\$0	Mark Connell															
P621P86	Procurement Review for Klystron Gallery Construction	08-Aug-19 A	29-Aug-19 A	08-Aug-19	29-Aug-19	100%	0	\$0	Mark Connell															
P621P116	Issue RFP for Klystron Gallery Construction (MS)		29-Aug-19 A		29-Aug-19	100%	0	\$0	Mark Connell															
P621P126	Solicitation Period for Klystron Gallery Construction	03-Sep-19 A	08-Nov-19 A	03-Sep-19	28-Oct-19	100%	0	\$3,301	Mark Connell															
P621P26	Review and Award Contract for Klystron Gallery Construction	14-Oct-19 A	20-Dec-19 A	29-Oct-19	05-Dec-19	100%	0	\$2,519	Mark Connell															
P621P136	Solicitation Complete for Klystron Gallery Construction (MS)		08-Nov-19 A		28-Oct-19	100%	0	\$0	Mark Connell															
P621P96	Award Klystron Gallery Construction (MS)		20-Dec-19 A		05-Dec-19	100%	0	\$0	Mark Connell															
P621P10	Klystron Gallery Construction - Vendor Document Prep and Mobilization Period	14-Jan-20 A	11-Feb-20 A	14-Jan-20	11-Feb-20	100%	0	\$0	Mark Connell															
P621P11	Klystron Gallery Construction	12-Feb-20 A	28-Feb-20 A	12-Feb-20	28-Feb-20	100%	0	\$268,560	Mark Connell															
P621P11a	Klystron Gallery Construction - Adjustment	02-Mar-20 A	02-Mar-20 A	02-Mar-20	02-Mar-20	100%	0	(\$268,560)	Mark Connell															
P621P11b	Klystron Gallery Construction - (March 2020 Forward)	03-Mar-20 A	10-Jun-21	03-Mar-20	31-Mar-21	99%	8	\$6,611,416	Mark Connell															
P621P400	TRCC Carts Installed	29-May-20 A			30-Jun-20	100%	0	\$0	Mark Connell															
P621P380	Transformer Pads Complete	02-Jun-20 A			29-May-20	100%	0	\$0	Mark Connell															
P621P14	KG Construction Contract CFCOs 2 & 3 Fix Elec dwg deficiencies and Transformer Drip Shields	29-Jun-20 A	31-Aug-20 A	31-Jul-20	31-Jul-20	100%	0	\$26,582	Mark Connell															
P621P390	Pump Room Ready for Equipment	03-Aug-20 A			31-Jul-20	100%	0	\$0	Mark Connell															
P621P410	KG Construction Contract CFCO-4	03-Aug-20 A	31-Mar-21 A	03-Aug-20	03-Aug-20	100%	0	\$35,991	Mark Connell															
P621P13	KG Construction Contract CFCO-1 Missing Mech Drawing	29-Sep-20 A	29-Sep-20 A	31-Jul-20	31-Jul-20	100%	0	\$5,967	Mark Connell															
P621P420	KG Construction Contract CFCO-5	30-Sep-20 A	30-Sep-20 A	30-Sep-20	30-Sep-20	100%	0	\$32,153	Mark Connell															
P621P450	KG Construction Contract CFCO-7	18-Dec-20 A	18-Dec-20 A	18-Dec-20	18-Dec-20	100%	0	\$17,478	Mark Connell															
P621P460	KG Construction Contract CFCO-8 (DI Water and process water insulation)	18-Dec-20 A	18-Dec-20 A	26-Feb-21	26-Feb-21	100%	0	\$17,478	Mark Connell															
P621P440	KG Construction Contract CFCO-6 (UPS w/xfmr and Breaker Kit)	04-Jan-21 A	04-Jan-21 A	04-Jan-21	04-Jan-21	100%	0	\$21,102	Mark Connell															
P621P61	Klystron Gallery integrated system testing - Old	01-Feb-21 A	01-Feb-21 A	05-Oct-20	02-Dec-20	100%	0	\$56,687	Mark Connell															
P621P61a	Klystron Gallery integrated system testing - Point Adj PCR LL-2021-10	01-Feb-21 A	01-Feb-21 A	01-Feb-21	01-Feb-21	100%	0	(\$55,597)	Mark Connell															
P621P470	KG Construction Contract Mod 10 (CFCO 9 and 10)	02-Feb-21 A	31-Mar-21 A	02-Feb-21	31-Mar-21	100%	0	\$103,897	Mark Connell															
P621P745	KG Construction Contract CFCO-11	31-Mar-21 A	31-Mar-21 A	01-Apr-21	01-Apr-21	100%	0	\$21,147	Mark Connell															
P621P735	Materials to support DI water flushing of AC piping	01-Apr-21 A	30-Apr-21 A	01-Feb-21	31-Mar-21	100%	0	\$10,400	Mark Connell															
P621P61b	Klystron Gallery integrated system testing	01-Apr-21 A	10-Jun-21	04-Mar-21	31-Mar-21	25%	8	\$56,687	Mark Connell															
P621PM01	Klystron Gallery Ready for Phase 1 (MS: CF Construction of Klystron Gallery Complete)		06-Apr-21 A		01-Apr-21	100%	0	\$0	Mark Connell															
P621P430	Reversal of charges for erroneous Oct charges for the Leak Repair Effort	03-May-21 A	03-May-21 A	02-Nov-20	02-Nov-20	100%	0	(\$4,334)	Mark Connell															
<b>P:10.06.02.01.03.01.02 Medium Voltage Switch Procurement</b>		<b>04-Oct-19 A</b>	<b>30-Sep-20 A</b>	<b>04-Oct-19</b>	<b>01-Oct-20</b>		<b>0</b>	<b>\$280,534</b>																
P621P200	Procurement Readiness Review for Three Medium Voltage Switches	04-Oct-19 A	07-Oct-19 A	04-Oct-19	07-Oct-19	100%	0	\$2,054	Mark Connell															



