

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														
P May FY2021 Status Schedule		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$13,370,489																													
P.04 Ring Systems		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$13,370,489																													
P.04.01 Management and System Integration - Ring Systems		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$677,762																													
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						◆																						
P04FDC	P.4 Final Designs Complete for CD-3 (Excludes FDRs for Ring Sys/BPLS/Foil Mechs/PPS)		23-Jun-20 A		23-Jun-20	100%	0	\$0	Nick Evans						◆																						
P04IT01	P.4 Ring Systems - Integrated System Testing for Phase 1 Complete		13-Oct-22		13-Oct-22	0%	0	\$0	Nick Evans													◆															
P04DOC1	P.4 Ring Systems - Documentation for IRR/ERR for for Phase 1 Complete		13-Oct-22		13-Oct-22	0%	0	\$0	Nick Evans													◆															
P04IT02	P.4 Ring Systems - Integrated System Testing for Phase 2 Complete		06-Sep-23		06-Sep-23	0%	0	\$0	Nick Evans																												
P04DOC2	P.4 Ring Systems - Documentation for ARR for Phase 2 Complete		20-Sep-23		20-Sep-23	0%	0	\$0	Nick Evans																												
P.04.01.01 Management and System Integration - Ring Systems - (NEP41100)		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$677,762																													
P411M1	WBS P.4 Management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Nick Evans	█	█																										
P411M41	2 domestic conferences for PPU-Ring team members FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Nick Evans	█	█																										
P411M46	2 international conferences for PPU-Ring team members FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Nick Evans	█	█																										
P411M116M	WBS P.4 Management FY18 (Oct through Apr)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Nick Evans			█	█																								
P411M51	2 domestic conferences for PPU-Ring team members FY18 (Oct through April)	02-Oct-17 A	30-Apr-18 A	02-Oct-17	30-Apr-18	100%	0	\$0	Nick Evans			█	█																								
P411M56	2 international conferences for PPU-Ring team members FY18 (Oct through April)	02-Oct-17 A	30-Apr-18 A	02-Oct-17	30-Apr-18	100%	0	\$0	Nick Evans			█	█																								
P411M6	WBS P.4 Management FY18 (May through Sept)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Nick Evans				█	█																							
P411M11	WBS P.4 Management FY19 (LOE) - Part A	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Nick Evans					█	█																						
P411M11B	WBS P.4 Management FY19 (LOE) - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Nick Evans						█	█																					
P411M11C	WBS P.4 Management FY19 (LOE) - Part C	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Nick Evans							█	█																				
P411M16	WBS P.4 Management FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Nick Evans							█	█																				
P411M16B	WBS P.4 Management FY20 (LOE) - Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Nick Evans								█	█																			
P411M21	WBS P.4 Management FY21 (LOE)	01-Oct-20 A	31-Oct-20 A	01-Oct-20	31-Oct-20	100%	0	\$0	Nick Evans									█	█																		
P411M21B	WBS P.4 Management FY21 (LOE) - continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$96,248	Nick Evans										█	█																	
P411M21T	WBS P.4 Management FY21 (LOE) - Travel	01-Sep-21	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$12,600	Nick Evans																												
P411M26	WBS P.4 Management FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$155,729	Nick Evans																												
P411M31	WBS P.4 Management FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$161,648	Nick Evans																												
P411M66	WBS P.4 Management FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$167,601	Nick Evans																												
P411M76	WBS P.4 Management FY25 - Closeout (LOE)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$83,936	Nick Evans																												
P.04.01.02 Design		20-Dec-18 A	06-Oct-20 A	20-Dec-18	06-Oct-20		0	\$0																													
P.04.01.02.01 System Design Reviews - Ring System (NEP41220)		20-Dec-18 A	06-Oct-20 A	20-Dec-18	06-Oct-20		0	\$0																													
P.04.01.02.01.01 Ring System Preliminary Design Review		20-Dec-18 A	15-Mar-19 A	20-Dec-18	15-Mar-19		0	\$0																													
P412D110	Coordinate Ring System Preliminary Design Review	20-Dec-18 A	28-Feb-19 A	20-Dec-18	28-Feb-19	100%	0	\$0	Nick Evans	█																											

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										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
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																													
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																												
P04.02.01.01.04 Primary and Secondary Stripper Foil Mechanisms - CAM Management		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																												
P04.02.02 Injection Region Magnets		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																												
P04.02.02.02 Design - Injection Region Magnets - (NEP42220)		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																												
P04.02.02.02.01 Accelerator Physics		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																												

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										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
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																		
P04.02.02.02.04 Chicane 3 Magnet		01-Aug-18 A	11-Feb-19 A	01-Aug-18	11-Feb-19		0	\$0																			
P422D116	Design Chicane 3 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																		
P422D230	Design and model Chicane 3 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																		
P422D230B	Design and model Chicane 3 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																		
P422D116B	Design Chicane 3 magnet support stand to Preliminary Design level - Continued - COMBINED WITH CHICANE 2	01-Oct-18 A	01-Jan-19 A	01-Oct-18	01-Jan-19	100%	0	\$0	Robert Saethre																		
P422DMS5	Provide 3D Magnet Fields to SNS for Chicane 3 Magnets FNAL		11-Feb-19 A		11-Feb-19	100%	0	\$0	Robert Saethre																		
P04.02.02.02.05 Injection Dump Septum Magnet		01-Aug-18 A	29-Jan-21 A	01-Aug-18	29-Jan-21		0	\$54,382																			
P422D121	Design injection dump septum magnet stand to Preliminary Design level - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Robert Saethre																		
P422D51	Design and model injection dump septum magnet 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																		
P422D121B	Design injection dump septum magnet 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																		
P422D51B	Design and model injection dump septum magnet to Preliminary Design level FNAL - Continued	12-Nov-18 A	11-Feb-19 A	12-Nov-18	11-Feb-19	100%	0	\$0	Robert Saethre																		
P422DMS02	Provide 3D Magnet Fields to SNS for Septum Magnet FNAL		11-Feb-19 A		11-Feb-19	100%	0	\$0	Robert Saethre																		
P422MS006	3D Preliminary Design of injection dump septum magnet completed		11-Feb-19 A		11-Feb-19	100%	0	\$0	Robert Saethre																		
P422D220	Design and Model Injection Dump Septum Magnet to Final Design level FNAL	03-Sep-19 A	31-Mar-20 A	03-Sep-19	31-Mar-20	100%	0	\$0	Robert Saethre																		
P422D290	SNS support of vendor mechanical design to validate design interfaces for Injection Dump Septum	03-Sep-19 A	31-Mar-20 A	03-Sep-19	31-Mar-20	100%	0	\$0	Robert Saethre																		
P422D125	Design injection dump septum magnet stand to Final Design (90%) level	01-Mar-20 A	31-Mar-20 A	01-Mar-20	31-Mar-20	100%	0	\$0	Robert Saethre																		
P422D290B	SNS support of vendor mechanical design to validate design interfaces for Inj Dump Septum - Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Robert Saethre																		
P422D220B	Design and Model Injection Dump Septum Magnet to Final Design level FNAL - Continued	01-May-20 A	03-Aug-20 A	01-May-20	03-Aug-20	100%	0	\$0	Robert Saethre																		
P422D125B	Design injection dump septum magnet stand to Final Design (90%) level - Continued	15-May-20 A	19-Jun-20 A	15-May-20	19-Jun-20	100%	0	\$0	Robert Saethre																		
P422D220B1	Design and Model Injection Dump Septum Magnet to Final Design level FNAL - Continued (adjustment)	03-Aug-20 A	03-Aug-20 A	03-Aug-20	03-Aug-20	100%	0	\$0	Robert Saethre																		
P422D220B2	Design and Model Injection Dump Septum Magnet to Final Design level FNAL - Continued (balance to complete)	04-Aug-20 A	15-Sep-20 A	04-Aug-20	15-Sep-20	100%	0	\$0	Robert Saethre																		
P422D222	Prepare for Final Design Review Injection Dump Septum Magnets	15-Sep-20 A	17-Sep-20 A	15-Sep-20	17-Sep-20	100%	0	\$0	Robert Saethre																		
P422D223	Prepare Injection Dump Septum Magnet - Magnet Measurement Design	21-Sep-20 A	31-Oct-20 A	21-Sep-20	31-Oct-20	100%	0	\$0	Robert Saethre																		
P422D223b	Prepare Injection Dump Septum Magnet - Magnet Measurement Design - continued	02-Nov-20 A	29-Jan-21 A	02-Nov-20	29-Jan-21	100%	0	\$54,382	Robert Saethre																		
P04.02.02.02.06 Injection Dump Quadrupole		01-Oct-18 A	02-Mar-22	01-Oct-18	03-Aug-21		40	\$82,704																			
P422D105	Create Design Package and Technical Specifications for Injection Dump Quadrupole Magnet - Part A	01-Oct-18 A	17-Dec-18 A	01-Oct-18	17-Dec-18	100%	0	\$0	Robert Saethre																		
P422D350	Update Drawings for Injection Dump Quadrupole Magnet - Final	15-May-20 A	30-Jun-20 A	15-May-20	30-Jun-20	100%	0	\$0	Robert Saethre																		
P422D160	SNS mechanical design to validate design interfaces for injection dump quadrupole magnet	15-May-20 A	28-Aug-20 A	15-May-20	28-Aug-20	100%	0	\$0	Robert Saethre																		
P422D400	Update Injection Dump Quadrupole Magnet Stand - Final	22-Jun-20 A	26-Jun-20 A	22-Jun-20	26-Jun-20	100%	0	\$0	Robert Saethre																		
P422D105B	Create Design Package and Technical Specifications for Injection Dump Quadrupole Magnet - Part B	03-Aug-20 A	28-Aug-20 A	03-Aug-20	28-Aug-20	100%	0	\$0	Robert Saethre																		

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										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P422D165	Installation Assembly for Injection Dump Line (including Inj Dum Quadrupole Magnet)	05-Jan-22	02-Mar-22	08-Jun-21	03-Aug-21	0%	40	\$82,704	Robert Saethre														
P04.02.02.03 Procure/Fab - Injection Region Magnets - (NEP42230)		01-Mar-17 A	19-Dec-22	01-Mar-17	19-Dec-22		387	\$2,791,682															
P422P326	Remainder of commitment for estimate for magnet design and fab from FNAL	01-Mar-17 A	31-Mar-17 A	01-Mar-17	31-Mar-17	100%	0	\$0	Robert Saethre														
P422P41	Prepare contract for design of ring injection region magnets	31-May-18 A	31-Jul-18 A	31-May-18	31-Jul-18	100%	0	\$0	Robert Saethre														
P422P41M1	Award contract with FNAL for design of 3 Injection Magnets	01-Aug-18 A	01-Aug-18 A	01-Aug-18	01-Aug-18	100%	0	\$0	Robert Saethre														
P04.02.02.03.01 MPO - Chicane 2/3 and Inj Dump Septum Magnets (with Spare Chicane Magnet and Coil		05-Oct-20 A	19-Dec-22	05-Oct-20	19-Dec-22		387	\$2,412,298															
P422P416	Prepare SOW and Tech Spec for Fab of Chicane 2/3 (and Spare), Inj Dump Septum Magnets and Spare Coil Sets	05-Oct-20 A	31-Oct-20 A	05-Oct-20	31-Oct-20	100%	0	\$0	Robert Saethre														
P422P416b	Prepare SOW and Tech Spec for Fab of Chicane 2/3 (and Spare), Inj Dump Septum Magnets and Spare Coil Sets - continued	02-Nov-20 A	24-Feb-21 A	02-Nov-20	18-Dec-20	100%	0	\$2,876	Robert Saethre														
P422P426	Proc Readiness Review for Fab of Chicane 2/3 (and Spare), Inj Dump Septum Magnets and Spare Coil Sets	26-Feb-21 A	26-Feb-21 A	04-Jan-21	08-Jan-21	100%	0	\$663	Robert Saethre														
P422P436	Tech Pkg to Procurement for Fab of Chicane 2/3 (and Spare), Inj Dump Septum Magnets and Spare Coil Sets		26-Feb-21 A		08-Jan-21	100%	0	\$0	Robert Saethre														
P422P486	Review and Negotiate Contract for Fab of Chicane 2/3 (and Spare), Inj Dump Septum Magnets and Spare Coil Sets	01-Mar-21 A	21-Apr-21 A	11-Jan-21	01-Feb-21	100%	0	\$1,477	Robert Saethre														
P424P099	Conduct Vendor Interface During Fabrication - All Magnets -(LOE)	21-Apr-21 A	09-May-22	21-Apr-21	09-May-22	10.77%	232	\$34,140	Robert Saethre														
P422P175	Award Contract for Fab of Chicane 2/3 (and Spare), Inj Dump Septum Magnets and Spare Coil Sets	22-Apr-21 A	28-Apr-21 A	02-Feb-21	02-Feb-21	100%	0	\$0	Robert Saethre														
P422P175MS	Contract Awarded for Fab of Chicane 2/3 (and Spare), Inj Dump Septum Magnets and Spare Coil Sets		28-Apr-21 A		02-Feb-21	100%	0	\$0	Robert Saethre														
P422P101	Conduct Site Visit at Fermi (Chicane Production Readiness Review)	06-Oct-21*	08-Oct-21	30-Sep-21	04-Oct-21	0%	3	\$11,784	Robert Saethre														
P422P101-2	Conduct Site Visit at Fermi (General visit)	09-Dec-21*	13-Dec-21	09-Dec-21	13-Dec-21	0%	3	\$11,784	Robert Saethre														
P422P101-3	Conduct Site Visit at Fermi (Dump Dipole Production Readiness Review)	14-Dec-21	16-Dec-21	02-Feb-22	04-Feb-22	0%	3	\$11,784	Robert Saethre														
P422P101-4	Conduct Site Visit at Fermi (Chicane - dry fit assembly of first magnet)	17-Dec-21	21-Dec-21	28-Mar-22	30-Mar-22	0%	3	\$11,784	Robert Saethre														
P422P101-5	Conduct Site Visit at Fermi (Measure First Chicane Magnet)	22-Dec-21	04-Jan-22	21-Jun-22	23-Jun-22	0%	3	\$11,784	Robert Saethre														
P422P101-6	Conduct Site Visit at Fermi (Chicane- final assembly of second and third magnets)	05-Jan-22	07-Jan-22	03-Aug-22	05-Aug-22	0%	3	\$11,784	Robert Saethre														
P422P101-7	Conduct Site Visit at Fermi (Measure Dump Dipole Magnet)	10-Jan-22	12-Jan-22	15-Aug-22	17-Aug-22	0%	3	\$11,784	Robert Saethre														
P422P101-8	Conduct Site Visit at Fermi (Prior to Dump Dipole Magnet Shipment)	13-Jan-22	18-Jan-22	13-Sep-22	15-Sep-22	0%	3	\$11,784	Robert Saethre														
P422P101-9	Conduct Site Visit at Fermi (Measure First and Second Chicane Magnet Together)	19-Jan-22	21-Jan-22	04-Oct-22	06-Oct-22	0%	3	\$11,784	Robert Saethre														
P422P101-10	Conduct Site Visit at Fermi (Prior to Chicane Magnet Shipment)	24-Jan-22	26-Jan-22	28-Nov-22	30-Nov-22	0%	3	\$11,784	Robert Saethre														
P424P099-2	Conduct Vendor Interface During Fabrication - All Magnets -(LOE)	10-May-22	19-Dec-22	10-May-22	19-Dec-22	0%	155	\$35,188	Robert Saethre														
P04.02.02.03.01.01 Chicane 2/3 Magnet		03-May-21 A	13-Dec-22	03-Feb-21	13-Dec-22		383	\$1,222,364															
P422P126	Fabricate Chicane 2/3 Magnet	03-May-21 A	04-May-21 A	03-Feb-21	30-Apr-21	100%	0	\$0	Robert Saethre														
P422P-FC001	Fermi - Chicane Magnet Fabrication Oversight (LOE)	13-May-21 A	13-Dec-22	13-May-21	13-Dec-22	3.04%	383	\$257,109	Robert Saethre														
P422P136	Receive Chicane 2/3 Magnet	13-Dec-22	13-Dec-22	13-Dec-22	13-Dec-22	0%	1	\$0	Robert Saethre														
P04.02.02.03.01.01.01 Chicane Fabrication - Procure Materials		13-May-21 A	26-Sep-22	13-May-21	26-Sep-22		329	\$390,093															
P422P-FC1	Chicane Traveler Refinement	03-Sep-21*	01-Oct-21	03-Sep-21	01-Oct-21	0%	20	\$21,202	Robert Saethre														
P422P-FC1	Chicane Tooling Set-Up	21-Sep-21	04-Oct-21	20-Sep-21	01-Oct-21	0%	10	\$8,337	Robert Saethre														
P422P-FC2	Chicane Production Readiness Review	05-Oct-21	05-Oct-21	04-Oct-21	04-Oct-21	0%	1	\$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
P.04.02.02.03.01.01.01.01 Chicane Fabrication Materials - Steel		13-May-21 A	29-Nov-21	13-May-21	29-Nov-21		126	\$119,890															
P422P-F	Chicane Steel - Process Requisition	13-May-21 A	10-Jun-21	13-May-21	10-Jun-21	55%	8	\$1,453	Robert Saethre														
P422P-F	Chicane Steel - Vendor Response	11-Jun-21	24-Jun-21	11-Jun-21	24-Jun-21	0%	10	\$0	Robert Saethre														
P422P-F	Chicane Steel - Place Order	25-Jun-21	22-Jul-21	25-Jun-21	22-Jul-21	0%	19	\$0	Robert Saethre														
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														
P.04.02.02.03.01.01.01.02 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														
P.04.02.02.03.01.01.01.03 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														
P.04.02.02.03.01.01.01.04 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														
P.04.02.02.03.01.01.01.05 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														

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 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															
P04.02.02.03.01.01.06 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															
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															
P04.02.02.03.01.01.07 Chicane Fabrication Materials - Other Components		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															
P04.02.02.03.01.01.02 Chicane Fabrication		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															
P04.02.02.03.01.01.03 Chicane Magnetic Measurements		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															

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
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														
P04.02.02.03.01.01.04 Chicane - Crate and Ship		28-Nov-22	13-Dec-22	28-Nov-22	13-Dec-22		12	\$11,034															
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														

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
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														
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														
P04.02.02.03.01.03.01.05 Dump Dipole Fabrication Materials - Potting Tooling		13-May-21 A	29-Nov-21	13-May-21	29-Nov-21		126	\$62,366															
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														
P04.02.02.03.01.03.01.06 Dump Dipole Fabrication Materials - Core Machining		09-Jul-21	31-Mar-22	09-Jul-21	31-Mar-22		179	\$137,444															
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														
P04.02.02.03.01.03.01.07 Dump Dipole Fabrication Materials - Other Components		09-Jul-21	31-Aug-22	09-Jul-21	31-Aug-22		285	\$35,463															
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														
P04.02.02.03.01.03.02 Dump Dipole Fabrication		07-Feb-22	15-Sep-22	07-Feb-22	15-Sep-22		155	\$239,867															
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														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Funding 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
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																
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																
P04.02.02.03.01.03.03 Dump Dipole Magnetic Measurements		18-Aug-22	15-Sep-22	18-Aug-22	15-Sep-22		20	\$103,059																	
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																
P04.02.02.03.01.03.04 Dump Dipole - Crate and Ship		16-Sep-22	29-Sep-22	16-Sep-22	29-Sep-22		10	\$13,418																	
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																
P04.02.02.03.03 PO - Injection Dump Quadrupole Magnet (with Corrector Magnet and Stand)		01-Feb-21 A	19-May-22	01-Feb-21	18-Mar-22		240	\$313,556																	
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																
P04.02.02.03.02 PO - Magnet Support Stands		01-Oct-20 A	19-Oct-22	01-Oct-20	18-Aug-22		106	\$65,828																	
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																

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
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																	
P04.02.02.03.02.01 Chicane 2/3 Support Stand		13-Jun-22	19-Oct-22	11-Apr-22	18-Aug-22		91	\$42,510																		
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																	
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, JHA's 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 property (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																	

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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
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														
P.04.02.03 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														
P.04.02.03.02 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														
P.04.02.03.02.01 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														

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
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																						
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																						

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
P4231135	Install Injection Dump Quadrupole PS	01-Feb-23	28-Feb-23	01-Feb-23	28-Feb-23	0%	20	\$18,640	Robert Saethre														
P423151	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															
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														

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
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														
P424P400	Fabrication of Chicane 4 vacuum chamber	31-Mar-22	18-Oct-22	10-Jan-22	28-Jul-22	0%	140	\$0	Tom Roseberry														
P424P410	Fabrication of injection dump septum vacuum chamber	31-Mar-22	18-Oct-22	10-Jan-22	28-Jul-22	0%	140	\$0	Tom Roseberry														
P424P420	Fabrication of injection dump quadrupole vacuum chamber	31-Mar-22	18-Oct-22	10-Jan-22	28-Jul-22	0%	140	\$0	Tom Roseberry														
P424P780-1	Conduct Vendor Interface During Fabrication - Vacuum Chambers -(LOE)	31-Mar-22	18-Oct-22	10-Jan-22	28-Jul-22	0%	140	\$9,850	Tom Roseberry														
P424P690	Conduct Vendor Surveillance Trip to Monitor Chamber Fabrication (all chambers)	12-Jul-22	14-Jul-22	20-Apr-22	22-Apr-22	0%	3	\$11,536	Tom Roseberry														
P424P700	Conduct Vendor Surveillance Trip to Inspect Chambers Prior to Shipment (all chambers)	14-Oct-22	18-Oct-22	26-Jul-22	28-Jul-22	0%	3	\$11,924	Tom Roseberry														
P424P352	Receive Chicane 1 vacuum chamber	19-Oct-22	19-Oct-22	29-Jul-22	29-Jul-22	0%	1	\$46,514	Tom Roseberry														
P424P354	Receive Chicane 2 vacuum chamber	19-Oct-22	19-Oct-22	29-Jul-22	29-Jul-22	0%	1	\$66,054	Tom Roseberry														
P424P356	Receive Chicane 3 vacuum chamber	19-Oct-22	19-Oct-22	29-Jul-22	29-Jul-22	0%	1	\$38,532	Tom Roseberry														
P424P358	Receive Chicane 4 vacuum chamber	19-Oct-22	19-Oct-22	29-Jul-22	29-Jul-22	0%	1	\$75,962	Tom Roseberry														
P424P359	Receive injection dump septum vacuum chamber	19-Oct-22	19-Oct-22	29-Jul-22	29-Jul-22	0%	1	\$49,541	Tom Roseberry														
P424P630	Receive injection dump quadrupole vacuum chamber	19-Oct-22	19-Oct-22	29-Jul-22	29-Jul-22	0%	1	\$71,559	Tom Roseberry														
P424P570	Receipt Complete - Vacuum Chambers		19-Oct-22		29-Jul-22	0%	0	\$0	Tom Roseberry														
P04.02.04.03.05 PO - Bellows Spools and Adapters		31-Mar-22	20-Jun-22	10-Jan-22	29-Mar-22		56	\$74,763															
P424P590	Prepare SOW and Tech Spec for Injection Region Bellows Spools	31-Mar-22	06-Apr-22	10-Jan-22	14-Jan-22	0%	5	\$4,105	Tom Roseberry														
P424P600	Procure Injection Region Bellows Spools and Adapters	07-Apr-22	28-Apr-22	18-Jan-22	07-Feb-22	0%	15	\$1,199	Tom Roseberry														
P424P310	Fabrication of Injection Region Bellows Spools and Adapters	29-Apr-22	17-Jun-22	08-Feb-22	28-Mar-22	0%	35	\$0	Tom Roseberry														
P424P620	Fabrication of Injection Region Bellow Spools and Adapters Complete		17-Jun-22		28-Mar-22	0%	0	\$0	Tom Roseberry														
P424P360	Receive Injection Region Bellows Spools and Adapters	20-Jun-22	20-Jun-22	29-Mar-22	29-Mar-22	0%	1	\$69,459	Tom Roseberry														
P04.02.04.03.06 PO - Interconnecting Chambers		29-Apr-22	19-Jul-22	08-Feb-22	27-Apr-22		56	\$29,229															
P424P730	Prepare SOW and Tech Spec for Injection Region Interconnecting Chambers	29-Apr-22	05-May-22	08-Feb-22	14-Feb-22	0%	5	\$4,105	Tom Roseberry														
P424P740	Procure Injection Region Interconnecting Chambers	06-May-22	26-May-22	15-Feb-22	07-Mar-22	0%	15	\$1,199	Tom Roseberry														
P424P750	Fabrication of Injection Region Interconnecting Chambers	27-May-22	18-Jul-22	08-Mar-22	26-Apr-22	0%	35	\$0	Tom Roseberry														
P424P760	Fabrication of Injection Region Interconnecting Chambers		18-Jul-22		26-Apr-22	0%	0	\$0	Tom Roseberry														
P424P770	Receive Injection Region Interconnecting Chambers	19-Jul-22	19-Jul-22	27-Apr-22	27-Apr-22	0%	1	\$23,925	Tom Roseberry														
P04.02.04.03.02 PO - Chain Clamps, Seals, Hardware		29-Apr-22	26-Jul-22	08-Feb-22	04-May-22		61	\$20,909															
P424P320	Procure Chain Clamps	29-Apr-22	19-May-22	08-Feb-22	28-Feb-22	0%	15	\$1,199	Tom Roseberry														
P424P330	Procure/Receive Seals and Misc Vacuum and Mech Hardware	20-May-22	17-Jun-22	01-Mar-22	28-Mar-22	0%	20	\$3,851	Tom Roseberry														
P424P323	Fabricate Chain Clamps	20-May-22	25-Jul-22	01-Mar-22	03-May-22	0%	45	\$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	F
P424P670	Fabrication of Chain Clamps Complete		25-Jul-22		03-May-22	0%	0	\$0	Tom Roseberry																
P424P680	Receive Chain Clamps	26-Jul-22	26-Jul-22	04-May-22	04-May-22	0%	1	\$15,858	Tom Roseberry																
P04.02.04.03.03 PO - TlN Plating Adaptors, Coating Adaptors, Coating Consumables		20-Jun-22	18-Jul-22	29-Mar-22	26-Apr-22		20	\$44,182																	
P424P340	Procure Injection Region TlN Coating Consumables	20-Jun-22	18-Jul-22	29-Mar-22	26-Apr-22	0%	20	\$3,851	Tom Roseberry																
P424P300	Procure TlN Plating Adapter Consumables	20-Jun-22	18-Jul-22	29-Mar-22	26-Apr-22	0%	20	\$9,786	Tom Roseberry																
P424P430	Procure TlN 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																

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	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028		
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																												
P425D560	New Primary & Secondary Foil Mechanism Final Design Review Meeting Data Archived		18-Mar-22		29-Mar-22	0%	0	\$0	Tom Roseberry																												
P425D570	Submit New Primary & Secondary Foil Mechanism Final Design Review Docs to Mgmt for Approval	21-Mar-22	25-Mar-22	30-Mar-22	05-Apr-22	0%	5	\$717	Tom Roseberry																												
P425D580	Management Approval Cycle for New Primary & Secondary Foil Mechanism Final Design Review Docs	28-Mar-22	25-Apr-22	06-Apr-22	04-May-22	0%	20	\$0	Tom Roseberry																												
P425D590	New Primary & Secondary Foil Mechanism Final Design Review Approved		25-Apr-22		04-May-22	0%	0	\$0	Tom Roseberry																												
P04.02.05.03 Procure/Fab - Primary and Secondary Stripper Foil Mechanisms		26-Apr-22	12-Jan-23	05-May-22	25-Jan-23		176	\$277,914																													
P425P700	Prepare SOW and Tech Spec for Primary and Secondary Foil Mechanisms	26-Apr-22	09-May-22	05-May-22	18-May-22	0%	10	\$5,739	Tom Roseberry																												
P425P705	Procurement Readiness Review (PRR) for Primary and Secondary Foil Mechanisms	10-May-22	16-May-22	19-May-22	25-May-22	0%	5	\$551	Tom Roseberry																												
P425P710	Technical Package to Procurement for Primary and Secondary Foil Mechanisms		16-May-22		25-May-22	0%	0	\$0	Tom Roseberry																												
P425P720	Procurement Review and Bid for Primary and Secondary Foil Mechanisms	17-May-22	07-Jun-22	26-May-22	16-Jun-22	0%	15	\$1,444	Tom Roseberry																												
P425P730	Issue RFP for Primary and Secondary Foil Mechanisms		07-Jun-22		16-Jun-22	0%	0	\$0	Tom Roseberry																												
P425P740	Solicitation Period for for Primary and Secondary Foil Mechanisms	08-Jun-22	13-Jul-22	17-Jun-22	22-Jul-22	0%	25	\$4,104	Tom Roseberry																												
P425P750	Solicitation Closing for New Primary and Secondary Foil Mechanisms		13-Jul-22		22-Jul-22	0%	0	\$0	Tom Roseberry																												
P425P760	Review and Award Contract for Primary and Secondary Foil Mechanisms	14-Jul-22	03-Aug-22	25-Jul-22	12-Aug-22	0%	15	\$1,680	Tom Roseberry																												
P425P770	Award Contract(s) for Primary and Secondary Foil Mechanisms	03-Aug-22	03-Aug-22	15-Aug-22	15-Aug-22	0%	1	\$0	Tom Roseberry																												
P425P780	Fabricate Primary Foil Mechanisms	04-Aug-22	27-Oct-22	16-Aug-22	08-Nov-22	0%	60	\$0	Tom Roseberry																												
P425P785	Fabricate Secondary Foil Mechanisms	04-Aug-22	27-Oct-22	15-Aug-22	07-Nov-22	0%	60	\$0	Tom Roseberry																												
P425P980	Inspect Primary Foil Mechanisms at Supplier Facility Prior to Shipment	25-Oct-22	27-Oct-22	04-Nov-22	08-Nov-22	0%	3	\$7,249	Tom Roseberry																												
P425P790	Receive Primary Foil Mechanisms	28-Oct-22	28-Oct-22	09-Nov-22	09-Nov-22	0%	1	\$135,031	Tom Roseberry																												
P425P990	Inspect Secondary Foil Mechanisms at Supplier Facility Prior to Shipment	28-Oct-22	01-Nov-22	03-Nov-22	07-Nov-22	0%	3	\$7,249	Tom Roseberry																												
P425P800	Clean and assemble Primary Foil Mechanism	31-Oct-22	18-Nov-22	10-Nov-22	02-Dec-22	0%	15	\$7,409	Tom Roseberry																												
P425P940	Receive Secondary Foil Mechanism	02-Nov-22	02-Nov-22	08-Nov-22	08-Nov-22	0%	1	\$81,019	Tom Roseberry																												
P425P950	Clean and assemble Secondary Foil Mechanism	03-Nov-22	16-Nov-22	09-Nov-22	22-Nov-22	0%	10	\$4,939	Tom Roseberry																												
P425P960	Align Secondary Foil Mechanism	17-Nov-22	02-Dec-22	23-Nov-22	08-Dec-22	0%	10	\$2,964	Tom Roseberry																												
P425P810	Align New Primary Foil Mechanism	21-Nov-22	06-Dec-22	05-Dec-22	16-Dec-22	0%	10	\$2,964	Tom Roseberry																												
P425P970	Test Secondary Foil Mechanism	05-Dec-22	10-Jan-23	09-Dec-22	17-Jan-23	0%	20	\$7,787	Tom Roseberry																												
P425P820	Test New Primary Foil Mechanism	07-Dec-22	12-Jan-23	19-Dec-22	25-Jan-23	0%	20	\$7,787	Tom Roseberry																												
P04.03 Injection Dump		03-Oct-16 A	12-Jul-22	03-Oct-16	12-Jul-22		276	\$790,146																													
P431MS005	Complete Measure and Quantify Correlations Between Injection Dump Temperature, Beam Power, and Air Temperature		31-Jan-18 A		31-Jan-18	100%	0	\$0	Tom Roseberry																												
P431MS001	Complete Benchmark of Injection Dump Thermodynamics		21-Nov-18 A		21-Nov-18	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
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															
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															

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
P04.03.02.02.03	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														
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														
P04.03.02.03	Procure/Fab - Injection Dump Imaging System - (NEP43230)	02-Nov-20 A	14-Oct-21	02-Nov-20	20-Aug-21		95	\$326,403															
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														
P04.03.02.03.01	Procure/Fab Optical Components	11-Jan-21 A	13-Oct-21	11-Jan-21	20-Aug-21		95	\$169,610															
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														
P04.03.02.03.01.01	Procure/Fab - Imaging Telescope	11-Jan-21 A	17-Sep-21	11-Jan-21	20-Aug-21		77	\$76,674															
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														

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
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															
P04.03.02.03.01.02 Procure/Fab - Doghouse		01-Apr-21 A	31-Aug-21	03-May-21	18-Aug-21		65	\$21,904																
P432P1122	Procure Doghouse	01-Apr-21 A	07-May-21 A	03-May-21	21-May-21	100%	0	\$1,104	Tom Roseberry															
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															
P04.03.02.03.01.03 Procure/Fab - Fabrication Vacuum Components		01-Apr-21 A	18-Jun-21	03-May-21	18-Aug-21		14	\$7,656																
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															
P04.03.02.03.01.04 Procure/Fab - Fabricated Machined Components		07-Jun-21	13-Oct-21	03-May-21	18-Aug-21		91	\$7,792																
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															
P04.03.02.03.02 Procure/Fab Mechanical and Shielding Components		13-Nov-20 A	31-Aug-21	23-Nov-20	26-Jul-21		39	\$152,172																
P04.03.02.03.02.01 Procure/Fab Optics Path Tubing Assembly and Miscellaneous Components		01-Mar-21 A	09-Mar-21 A	11-Jan-21	26-Jul-21		0	\$27,581																
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															
P04.03.02.03.02.02 Procure/Fab Injection Dump Windows		13-Nov-20 A	31-Aug-21	23-Nov-20	01-Jul-21		39	\$124,591																
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															

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
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															
P04.03.02.03.03 Procure/Fab Data Acquisition and Controls Components		04-May-21 A	11-Jun-21	11-Jan-21	07-May-21		9	\$4,622																
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															
P04.03.02.04 Installation - Injection Dump Imaging System - (NEP43240)		01-Mar-21 A	13-Jun-22	07-Apr-21	13-Jun-22		256	\$190,609																
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 Planing 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 Planing 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															
P04.03.03 Injection Dump Engineering Review		18-Jun-18 A	30-Oct-20 A	18-Jun-18	30-Oct-20		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	F
P04.03.03.02 Design - Injection Dump Engineering Review - (NEP43320)		18-Jun-18 A	30-Oct-20 A	18-Jun-18	30-Oct-20		0	\$0																
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															
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															
P04.04 Extraction Region		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															
P04.04.01 Management and System Integration		03-Oct-16 A	24-Jul-23	03-Oct-16	24-Jul-23		530	\$89,375																
P04.04.01.01 Management and System Integration - Extraction Region - (NEP44110)		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															

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
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															
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 Particle tracking through new ExtSptm and Kickers	13-Jul-20 A	31-Oct-20 A	13-Jul-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	Fiscal Year Schedule																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
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																												
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 Partide 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																												

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
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														
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														

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
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															
P443D360B	Design RCPS control cabling - Part B	23-Sep-19 A	06-Dec-19 A	23-Sep-19	06-Dec-19	100%	0	\$0	Robert Saethre															
P443D370B	Design RCPS PLC interface - Part B	23-Sep-19 A	06-Dec-19 A	23-Sep-19	06-Dec-19	100%	0	\$0	Robert Saethre															
P443D340B	Release RCPS control board schematics - Part B	07-Oct-19 A	30-Dec-19 A	07-Oct-19	30-Dec-19	100%	0	\$0	Robert Saethre															
P443D580B	Test first article HVPS 1 - Part B	07-Oct-19 A	18-Oct-19 A	07-Oct-19	18-Oct-19	100%	0	\$0	Robert Saethre															
P443D680	Conduct 60 Hz Test of RCPS- Phase I	07-Oct-19 A	09-Dec-19 A	07-Oct-19	09-Dec-19	100%	0	\$0	Robert Saethre															
P443D572	Receive first article HVPS 2	10-Oct-19 A	10-Oct-19 A	10-Oct-19	10-Oct-19	100%	0	\$0	Robert Saethre															
P443D480B	Design HVPSAC Power input - Part B	14-Oct-19 A	16-Oct-19 A	14-Oct-19	16-Oct-19	100%	0	\$0	Robert Saethre															
P443D490B	Design HVPS EPICs interface - Part B	14-Oct-19 A	16-Oct-19 A	14-Oct-19	16-Oct-19	100%	0	\$0	Robert Saethre															
P443D530B	Update rack drawings - Part B	21-Oct-19 A	14-Jan-20 A	21-Oct-19	14-Jan-20	100%	0	\$0	Robert Saethre															
P443D470B	Design HVPS Control interface - Part B	28-Oct-19 A	06-Dec-19 A	28-Oct-19	06-Dec-19	100%	0	\$0	Robert Saethre															
P443D540B	Update system level schematics - Part B	31-Oct-19 A	14-Jan-20 A	31-Oct-19	14-Jan-20	100%	0	\$0	Robert Saethre															
P443D375B	Design RCPS EPICs interface - Part B	18-Nov-19 A	13-Dec-19 A	18-Nov-19	13-Dec-19	100%	0	\$0	Robert Saethre															
P443D300B	Write RCPS Design Criteria Document - Part B	20-Nov-19 A	14-Jan-20 A	20-Nov-19	14-Jan-20	100%	0	\$0	Robert Saethre															
P443D520	Write operational procedures for Resonant Charging Power Supply	20-Nov-19 A	31-Mar-20 A	20-Nov-19	31-Mar-20	100%	0	\$0	Robert Saethre															
P443D690	Conduct 60 Hz Test of RCPS- Phase II	10-Dec-19 A	31-Mar-20 A	10-Dec-19	31-Mar-20	100%	0	\$0	Robert Saethre															
P443D510	Create interface control document	27-Dec-19 A	08-Jan-20 A	27-Dec-19	08-Jan-20	100%	0	\$0	Robert Saethre															
P443D500B	Update PFN tank drawings - Part B	27-Dec-19 A	31-Mar-20 A	27-Dec-19	31-Mar-20	100%	0	\$0	Robert Saethre															
P443D590	Prepare for Final Design Review Meeting - Resonant Charging Power Supply	30-Dec-19 A	08-Jan-20 A	30-Dec-19	08-Jan-20	100%	0	\$0	Robert Saethre															
P443D600	Review Docs Posted / Ready for Ring System FDR - Resonant Charging Power Supply		08-Jan-20 A		08-Jan-20	100%	0	\$0	Robert Saethre															
P443D250	Final Design Review Meeting - Resonant Charging Power Supply	13-Jan-20 A	14-Jan-20 A	13-Jan-20	14-Jan-20	100%	0	\$0	Robert Saethre															
P443D350B1C	Design mechanical hardware - Part B - Continued	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Robert Saethre															
P443D520B	Write operational procedures for Resonant Charging Power Supply - Continued	01-Apr-20 A	08-Jun-20 A	01-Apr-20	08-Jun-20	100%	0	\$0	Robert Saethre															
P443D700	Conduct 60 Hz Test of RCPS- Phase II - Continued A	01-Apr-20 A	15-May-20 A	01-Apr-20	15-May-20	100%	0	\$0	Robert Saethre															
P443D710	Conduct 60 Hz Test of RCPS- Phase II - Continued B	16-May-20 A	16-Oct-20 A	16-May-20	16-Oct-20	100%	0	\$0	Robert Saethre															
P443D710-C	Conduct 60 Hz Test of RCPS- Phase III - long term reliability run (LOE)	02-Nov-20 A	28-May-21 A	02-Nov-20	01-Jun-21	100%	0	\$36,655	Robert Saethre															
P443D350-C	Design mechanical hardware - Part C	02-Nov-20 A	29-Jan-21 A	02-Nov-20	08-Dec-20	100%	0	\$19,204	Robert Saethre															
P04.04.03.03 Procure/Fab - Power Supplies (NEP44330)		10-Jan-22	01-Aug-22	10-Jan-22	01-Aug-22		142	\$615,209																
P04.04.03.01 Procure HVPS (Operational and Spares)		10-Jan-22	29-Jul-22	10-Jan-22	29-Jul-22		141	\$250,638																
P443P600	Prepare Tech Specs for HVPS procurement	10-Jan-22*	24-Jan-22	10-Jan-22	24-Jan-22	0%	10	\$4,083	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	F	F	F	F	F
										Gantt Chart																					
P443P603	Procurement Readiness Review (PRR) for HVPS procurement	25-Jan-22	31-Jan-22	25-Jan-22	31-Jan-22	0%	5	\$1,036	Robert Saethre																						
P443P605	Technical Package to Procurement for HVPS		31-Jan-22		31-Jan-22	0%	0	\$0	Robert Saethre																						
P443P608	Procurement Review and Bid for HVPS	01-Feb-22	21-Feb-22	01-Feb-22	21-Feb-22	0%	15	\$963	Robert Saethre																						
P443P610	Issue RFP for HVPS		21-Feb-22		21-Feb-22	0%	0	\$0	Robert Saethre																						
P443P613	Solicitation Period for HVPS	22-Feb-22	28-Mar-22	22-Feb-22	28-Mar-22	0%	25	\$3,953	Robert Saethre																						
P443P615	Solicitation Complete for HVPS		28-Mar-22		28-Mar-22	0%	0	\$0	Robert Saethre																						
P443P618	Review and Award Contract for HVPS	29-Mar-22	19-Apr-22	29-Mar-22	19-Apr-22	0%	15	\$1,408	Robert Saethre																						
P443P620	Award Contract for HVPS (Operational and Spares)	20-Apr-22	20-Apr-22	20-Apr-22	20-Apr-22	0%	1	\$0	Robert Saethre																						
P443P630	Fabrication of HVPS - 14x Operational	21-Apr-22	08-Jul-22	21-Apr-22	08-Jul-22	0%	55	\$0	Robert Saethre																						
P443P633	Fabrication of HVPS - 4x Spares	21-Apr-22	08-Jul-22	21-Apr-22	08-Jul-22	0%	55	\$0	Robert Saethre																						
P443P635	Receive HVPS - 14x Operational	11-Jul-22	15-Jul-22	11-Jul-22	15-Jul-22	0%	5	\$174,149	Robert Saethre																						
P443P638	Receive HVPS - 4x Spares	11-Jul-22	15-Jul-22	11-Jul-22	15-Jul-22	0%	5	\$49,757	Robert Saethre																						
P443P640	Perform incoming inspection of HVPS - 14x Operational	18-Jul-22	29-Jul-22	18-Jul-22	29-Jul-22	0%	10	\$11,667	Robert Saethre																						
P443P643	Perform incoming inspection of HVPS - 4x Spares	18-Jul-22	29-Jul-22	18-Jul-22	29-Jul-22	0%	10	\$3,623	Robert Saethre																						
P04.04.03.03.02 Procure RCPS (Operational and Spares)		08-Mar-22	01-Aug-22	08-Mar-22	01-Aug-22		102	\$257,705																							
P443P680	Procure RCPS Components (Operational and Spares) - multiple POs	08-Mar-22	11-Apr-22	08-Mar-22	11-Apr-22	0%	25	\$9,354	Robert Saethre																						
P443P906	Award contract for RCPS Components (Operational and Spares) - multiple POs	12-Apr-22	12-Apr-22	12-Apr-22	12-Apr-22	0%	1	\$0	Robert Saethre																						
P443P683	Fabricate RCPS Components - 14x Operational	13-Apr-22	09-Jun-22	13-Apr-22	09-Jun-22	0%	40	\$0	Robert Saethre																						
P443P685	Fabricate RCPS Components - 4x Spares	13-Apr-22	09-Jun-22	13-Apr-22	09-Jun-22	0%	40	\$0	Robert Saethre																						
P443P916	Conduct Vendor Interface - RCPS Components	13-Apr-22	09-Jun-22	13-Apr-22	09-Jun-22	0%	40	\$4,083	Robert Saethre																						
P443P688	Fabrication of RCPS Components Complete - 4x Spares		09-Jun-22		09-Jun-22	0%	0	\$0	Robert Saethre																						
P443P690	Fabrication of RCPS Components Complete - 14x Operational		09-Jun-22		09-Jun-22	0%	0	\$0	Robert Saethre																						
P443P693	Receive RCPS Components - 14x Operational	10-Jun-22	14-Jun-22	10-Jun-22	14-Jun-22	0%	3	\$139,046	Robert Saethre																						
P443P695	Receive RCPS Components - 4x Spares	10-Jun-22	14-Jun-22	10-Jun-22	14-Jun-22	0%	3	\$39,352	Robert Saethre																						
P443P694	Assemble RCPS - 14x Operational	15-Jun-22	11-Jul-22	15-Jun-22	11-Jul-22	0%	18	\$40,892	Robert Saethre																						
P443P698	Perform Inspection and Testing of RCPS - 14x Operational	12-Jul-22	20-Jul-22	12-Jul-22	20-Jul-22	0%	7	\$9,195	Robert Saethre																						
P443P696	Assemble RCPS - 4x Spares	21-Jul-22	27-Jul-22	21-Jul-22	27-Jul-22	0%	5	\$11,683	Robert Saethre																						
P443P700	Perform Inspection and Testing of RCPS- 4x Spares	28-Jul-22	01-Aug-22	28-Jul-22	01-Aug-22	0%	3	\$4,099	Robert Saethre																						
P04.04.03.03.03 Procure RCPS Transformer and Diode (Operational and Spares)		01-Feb-22	06-Jun-22	01-Feb-22	06-Jun-22		88	\$106,865																							
P443P710	Procure RCPS transformer and diode (Operational and Spares)	01-Feb-22	07-Mar-22	01-Feb-22	07-Mar-22	0%	25	\$4,564	Robert Saethre																						
P443P880	Award contract for RCPS transformer and diode (Operational and Spares)	08-Mar-22	08-Mar-22	08-Mar-22	08-Mar-22	0%	1	\$0	Robert Saethre																						
P443P715	Fabricate RCPS transformer and diode - 14x Operational	09-Mar-22	18-May-22	09-Mar-22	18-May-22	0%	50	\$1,597	Robert Saethre																						
P443P720	Fabricate RCPS transformer and diode - 4x Spares	09-Mar-22	18-May-22	09-Mar-22	18-May-22	0%	50	\$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
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															
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															
P04.05.03.02.01 Design - New Injection Dump Quadrupole Magnet & Power Supply Cooling		03-Jun-19 A	13-Nov-19 A	03-Jun-19	13-Nov-19		0	\$0																
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															
P04.05.03.03 Procure/Fab/Installation - RN-03 DIW Cooling Upgrade		04-Apr-22	19-Apr-23	04-Apr-22	19-Apr-23		258	\$888,312																
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															

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
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															
P04.05.03.03.01	Procure/Fab/Installation - New Injection Dump Quadrupole Magnet & Power Supply Cool	31-Oct-22	19-Apr-23	31-Oct-22	19-Apr-23		112	\$7,791																
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															
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															
P04.05.03.05	Testing - RN-03 DIW Cooling Upgrade	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															
P04.05.03.05.01	Testing - New Injection Dump Quadrupole Magnet & Power Supply Cooling	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															
P04.05.04	PFN Room HVAC	02-Jan-19 A	24-May-23	02-Jan-19	24-May-23		342	\$272,789																
P04.05.04.02	Design - PFN Room HVAC - (NEP45420)	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															
P04.05.04.03	Procure/Fab - PFN Room HVAC	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															

May FY2021 Status Schedule		WBS - Detailed Sep21 IPR v1								13-Aug-21 09:21														
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
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															
P04.05.04.04 Installation - PFN Room HVAC		01-Feb-23	24-May-23	01-Feb-23	24-May-23		80	\$262,893																
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															
P04.06 Ring Control Systems		03-Oct-16 A	20-Sep-23	03-Oct-16	20-Sep-23		571	\$3,933,833																
P0406IT01	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															
P0406IT02	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															
P04.06.01 Management and System Integration		03-Oct-16 A	20-Sep-23	03-Oct-16	20-Sep-23		571	\$201,373																
P04.06.01.01 Management and System Integration - Ring Control Systems - (NEP46110)		03-Oct-16 A	20-Sep-23	03-Oct-16	20-Sep-23		571	\$201,373																
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															
P04.06.02 Beam Power Limit System		07-Jan-19 A	13-Oct-22	07-Jan-19	13-Oct-22		342	\$3,262,423																
P04.06.02.02 Design - Beam Power Limit System - (NEP46220)		07-Jan-19 A	18-Feb-22	07-Jan-19	14-Feb-22		177	\$2,248,563																
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															
P04.06.02.02.01 Beam Power Limit System Conceptual Design		07-Jan-19 A	10-Dec-19 A	07-Jan-19	10-Dec-19		0	\$0																
P04.06.02.02.01.01 System Conceptual Design		07-Jan-19 A	10-Dec-19 A	07-Jan-19	10-Dec-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	F
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															
P462D114	Prepare Preliminary Hazards Analysis	11-Mar-19 A	29-Mar-19 A	11-Mar-19	29-Mar-19	100%	0	\$0	Karen White															
P462D110	Prepare System Requirements Definition - Part A	11-Mar-19 A	31-Mar-19 A	11-Mar-19	31-Mar-19	100%	0	\$0	Karen White															
P462D108	Prepare System Control System Engineering - Part A	25-Mar-19 A	31-Mar-19 A	25-Mar-19	31-Mar-19	100%	0	\$0	Karen White															
P462D110B	Prepare System Requirements Definition - Part B	01-Apr-19 A	05-Apr-19 A	01-Apr-19	05-Apr-19	100%	0	\$0	Karen White															
P462D108B	Prepare System Control System Engineering - Part B	01-Apr-19 A	05-Apr-19 A	01-Apr-19	05-Apr-19	100%	0	\$0	Karen White															
P462D118	Prepare System Design Solution and Scope - Part A	08-Apr-19 A	31-Aug-19 A	08-Apr-19	31-Aug-19	100%	0	\$0	Karen White															
P462D112	Prepare BPLS Mechanical Conceptual Design - Part A	09-Jul-19 A	31-Aug-19 A	09-Jul-19	31-Aug-19	100%	0	\$0	Karen White															
P462D116	Prepare System Interface Description Document - Part A	29-Jul-19 A	31-Aug-19 A	29-Jul-19	31-Aug-19	100%	0	\$0	Karen White															
P462D120	Prepare System Level TDR Update - Part A	12-Aug-19 A	31-Aug-19 A	12-Aug-19	31-Aug-19	100%	0	\$0	Karen White															
P462D122	Prepare Project Risk Tree - Part A	28-Aug-19 A	31-Aug-19 A	28-Aug-19	31-Aug-19	100%	0	\$0	Karen White															
P462D116B	Prepare System Interface Description Document - Part B	01-Sep-19 A	15-Oct-19 A	01-Sep-19	15-Oct-19	100%	0	\$0	Karen White															
P462D122B	Prepare Project Risk Tree - Part B	01-Sep-19 A	10-Dec-19 A	01-Sep-19	10-Dec-19	100%	0	\$0	Karen White															
P462D125	Conduct System Conceptual Design Internal Reviews	02-Sep-19 A	01-Oct-19 A	02-Sep-19	01-Oct-19	100%	0	\$0	Karen White															
P462D120B	Prepare System Level TDR Update - Part B	02-Sep-19 A	30-Sep-19 A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P462D112B	Prepare BPLS Mechanical Conceptual Design - Part B	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P462D118B	Prepare System Design Solution and Scope - Part B	11-Sep-19 A	30-Sep-19 A	11-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P462D127	BPLS System Conceptual Design Complete		15-Oct-19 A		15-Oct-19	100%	0	\$0	Karen White															
P04.06.02.02.01.02 Signal Processor Conceptual Design		08-Apr-19 A	30-Sep-19 A	08-Apr-19	30-Sep-19		0	\$0																
P462D150	Prepare Signal Processor Requirements Definition - Part A	08-Apr-19 A	31-Aug-19 A	08-Apr-19	31-Aug-19	100%	0	\$0	Karen White															
P462D152	Prepare Signal Processor Simulation & Modeling	08-Apr-19 A	09-Aug-19 A	08-Apr-19	09-Aug-19	100%	0	\$0	Karen White															
P462D154	Prepare Signal Processor Conceptual Design - Part A	08-Apr-19 A	31-Aug-19 A	08-Apr-19	31-Aug-19	100%	0	\$0	Karen White															
P462D157	Conduct Signal Processor Conceptual Design Internal Reviews	02-Sep-19 A	30-Sep-19 A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P462D154B	Prepare Signal Processor Conceptual Design - Part B	02-Sep-19 A	30-Sep-19 A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P462D150B	Prepare Signal Processor Requirements Definition - Part B	02-Sep-19 A	30-Sep-19 A	02-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P462D160	Signal Processor Conceptual Design Complete		30-Sep-19 A		30-Sep-19	100%	0	\$0	Karen White															
P04.06.02.02.01.03 PPS Interface Conceptual Design		11-Mar-19 A	15-Oct-19 A	11-Mar-19	15-Oct-19		0	\$0																
P462D170	Prepare PPS Customer/Supplier Interface - Part A	11-Mar-19 A	31-Mar-19 A	11-Mar-19	31-Mar-19	100%	0	\$0	Karen White															
P462D170B	Prepare PPS Customer/Supplier Interface - Part B	17-Jun-19 A	31-Aug-19 A	17-Jun-19	31-Aug-19	100%	0	\$0	Karen White															
P462D174	Prepare PPS Requirements Definition - Part A	17-Jun-19 A	31-Aug-19 A	17-Jun-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	FY 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						
P462D172	Prepare PPS Control System Engineering - Part A	15-Jul-19 A	31-Aug-19 A	15-Jul-19	31-Aug-19	100%	0	\$0	Karen White																								
P462D176	Prepare PPS Conceptual Design - Part A	09-Aug-19 A	31-Aug-19 A	09-Aug-19	31-Aug-19	100%	0	\$0	Karen White																								
P462D178	Prepare PPS Interface Description Document -Part A	28-Aug-19 A	31-Aug-19 A	28-Aug-19	31-Aug-19	100%	0	\$0	Karen White																								
P462D170C	Prepare PPS Customer/Supplier Interface - Part C	01-Sep-19 A	30-Sep-19 A	01-Sep-19	30-Sep-19	100%	0	\$0	Karen White																								
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																								
P04.06.02.02.01.04 Beam Power Limit System Conceptual Design Review		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																								
P04.06.02.02.02 Beam Power Limit System Preliminary Design		09-Sep-19 A	04-May-21 A	09-Sep-19	24-Feb-21		0	\$284,547																									
P04.06.02.02.02.01 System Preliminary Design		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																								

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
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															
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															
P04.06.02.02.02.04 Beam Power Limit System Preliminary Design Review		08-Jan-21 A	04-May-21 A	30-Nov-20	24-Feb-21		0	\$48,051																
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															
P04.06.02.02.03 Beam Power Limit System Final Design		04-Jan-21 A	07-Dec-21	04-Jan-21	28-Oct-21		132	\$310,778																
P04.06.02.02.03.01 System Final Design		04-Jan-21 A	27-Oct-21	04-Jan-21	07-Sep-21		105	\$260,605																
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															

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
P04.06.02.02.03.03 PPS Interface Final Design		22-Jun-21	22-Jun-21	07-Jun-21	07-Jun-21		0	\$0																
P462D454	PPS Interface Final Design Complete		22-Jun-21		07-Jun-21	0%	0	\$0	Karen White															
P04.06.02.02.03.04 Beam Power Limit System Final Design Review		16-Sep-21	07-Dec-21	27-Jul-21	28-Oct-21		57	\$50,174																
P462D500	Coordinate BPLS Final Design Review	16-Sep-21	29-Sep-21	27-Jul-21	09-Aug-21	0%	10	\$1,445	Karen White															
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 Design 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															
P04.06.02.02.04 Beam Power Limit System Design - Test Article Hardware		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															
P04.06.02.02.04.01 Test Article - PSI		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															
P04.06.02.02.04.01.01 Final Design - PSI Test Article		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															
P462D1621	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															
P04.06.02.02.04.01.02 Implement - PSI Test Article		19-Apr-21 A	17-Sep-21	26-Jan-21	04-Jun-21		77	\$75,551																
P462D2071	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															
P462D1631	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															

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	29				
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																		
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 Test Article - 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																		

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
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														
P462D203	Test Main Winding Buffer Circuits	15-Feb-21 A	22-Feb-21 A	03-Mar-21	23-Mar-21	100%	0	\$13,544	Karen White														
P462D226	Redesign Main Winding Attenuator Board	23-Feb-21 A	11-Jun-21			90%	9	\$13,544	Karen White														
P462D227	Procure/Fab Main Winding Attenuator Board	14-Jun-21	01-Jul-21			0%	14	\$13,585	Karen White														
P462D228	Test Main Winding Attenuator Board	02-Jul-21	14-Jul-21			0%	8	\$13,585	Karen White														
P04.06.02.02.04.02.07	Design Chassis	25-Jan-21 A	31-Mar-21 A	11-Jan-21	01-Jul-21		0	\$11,321															
P462D203	Design Chassis - Front Panel	25-Jan-21 A	01-Feb-21 A	11-Jan-21	08-Feb-21	100%	0	\$1,859	Karen White														
P462D204	Design Chassis - Rear Panel	25-Jan-21 A	01-Feb-21 A	11-Jan-21	08-Feb-21	100%	0	\$1,859	Karen White														
P462D204	Design Chassis - Layout and Wiring Diagram	25-Jan-21 A	01-Feb-21 A	11-Jan-21	08-Feb-21	100%	0	\$1,859	Karen White														
P462D229	Design Pulsed Voltage Module (PVM) Chassis	25-Jan-21 A	26-Mar-21 A			100%	0	\$1,912	Karen White														
P462D230	Design Main Winding Attenuator (MWA) Chassis	25-Jan-21 A	26-Mar-21 A			100%	0	\$1,912	Karen White														
P462D215	Finalize Chassis Design	15-Mar-21 A	31-Mar-21 A	18-Jun-21	01-Jul-21	100%	0	\$1,920	Karen White														
P04.06.02.02.04.02.08	Procure Chassis and Components	24-May-21 A	22-Jun-21	02-Jul-21	02-Aug-21		16	\$3,557															
P462D204	Procure Chassis and Components	24-May-21 A	28-May-21 A	02-Jul-21	09-Jul-21	100%	0	\$1,997	Karen White														
P462D205	Fabricate Chassis and Components	01-Jun-21	21-Jun-21	12-Jul-21	30-Jul-21	0%	15	\$0	Karen White														
P462D205	Fabrication of Chassis and Components Complete		21-Jun-21		30-Jul-21	0%	0	\$0	Karen White														
P462D205	Receive Chassis and Components	22-Jun-21	22-Jun-21	02-Aug-21	02-Aug-21	0%	1	\$1,560	Karen White														
P04.06.02.02.04.02.09	Assemble Chassis	12-Aug-21	18-Aug-21	03-Aug-21	09-Aug-21		5	\$7,607															
P462D207	Assemble Chassis	12-Aug-21	18-Aug-21	03-Aug-21	09-Aug-21	0%	5	\$7,607	Karen White														
P04.06.02.02.04.02.10	Test Full System	12-Aug-21	23-Sep-21	29-Apr-21	07-Sep-21		30	\$24,150															
P462D165	*Prepare AFE Subsystem Integration Test Specification	12-Aug-21	25-Aug-21	29-Apr-21	12-May-21	0%	10	\$4,623	Karen White														
P462D207	Test Full AFE System	26-Aug-21	09-Sep-21	10-Aug-21	23-Aug-21	0%	10	\$14,904	Karen White														
P462D165	*Execute AFE Subsystem Integration Test Specification	10-Sep-21	23-Sep-21	24-Aug-21	07-Sep-21	0%	10	\$4,623	Karen White														
P04.06.02.02.04.02.20	Implement - AFE Test Article	01-Jun-20 A	01-Sep-20 A	01-Jun-20	01-Sep-20		0	\$0															
P462D148	Fabricate AFE Pulse Voltage Module Test Article	01-Jun-20 A	31-Jul-20 A	01-Jun-20	31-Jul-20	100%	0	\$0	Karen White														
P462D149	Receive AFE Pulse Voltage Module Test Article	01-Sep-20 A	01-Sep-20 A	01-Sep-20	01-Sep-20	100%	0	\$0	Karen White														
P04.06.02.02.04.03	Test Article - PPS Shut-Down Interface	01-Mar-21 A	02-Aug-21	18-Feb-21	11-Jun-21		44	\$73,519															
P462D1109	Prepare Tech Spec - Test Article Shut-Down Interface Components	01-Mar-21 A	05-Mar-21 A	18-Feb-21	17-Mar-21	100%	0	\$20,866	Karen White														
P462D1112	Purchase/Receive Test Article Shut-Down Interface Components	08-Mar-21 A	04-Jun-21	18-Mar-21	15-Apr-21	40%	4	\$40,049	Karen White														
P462D1115	Build Test Article Shut-Down Interface	07-Jun-21	02-Aug-21	16-Apr-21	11-Jun-21	0%	40	\$12,605	Karen White														

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
P04.06.02.02.04.04 TestArticle - Current Monitor		04-Nov-19 A	30-Oct-20 A	04-Nov-19	30-Oct-20		0	\$0																											
P462D306	Prepare Current Monitor Test Article Tech Spec/SOW	04-Nov-19 A	05-Dec-19 A	04-Nov-19	05-Dec-19	100%	0	\$0	Karen White																										
P462D760	Procure Current Monitor Test Article (Qty 2)	16-Dec-19 A	13-Jan-20 A	16-Dec-19	13-Jan-20	100%	0	\$0	Karen White																										
P462D765	Fabricate Current Monitor Test Article	14-Jan-20 A	31-Jul-20 A	14-Jan-20	31-Jul-20	100%	0	\$0	Karen White																										
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 TestArticle - 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 TestArticle - 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 TestArticle - 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																										

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
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 TestArticle - 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																												
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																												

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
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															
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 Test Article	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															
P462D1804	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 Test Article	01-Jun-21	20-Dec-21	27-Sep-21	26-Oct-21		141	\$44,252																
P462D1824	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															
P462D1824	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															
P462D183	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															
P462D1824	Perform DPU Unit Test (Main)	07-Dec-21	20-Dec-21	28-Sep-21	11-Oct-21	0%	10	\$21,303	Karen White															
P462D1824	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															

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
P04.06.02.03.01	Procure/Fab Current Monitor and Stand	01-Jun-21	18-Feb-22	01-Jun-21	16-Feb-22		177	\$248,345																	
	P04.06.02.03.01.01 Procure/Fab Current Monitor	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																
	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																
	P04.06.02.03.01.02 Procure/Fab BPLS Stand	25-Oct-21	11-Feb-22	17-Sep-21	05-Jan-22		70	\$23,169																	
	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																
	P04.06.02.03.02 Procure/Fab PSI	03-May-21 A	21-Dec-21	01-Jun-21	07-Jan-22		142	\$41,443																	
	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																

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															
P04.06.02.03.03 Procure/Fab DPU/Platform		03-May-21 A	27-Jan-22	01-Jun-21	07-Jan-22		161	\$172,832																													
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																												
P462D1145	Fabrication Complete - DPU/Platform (Qty 2)		15-Sep-21		24-Nov-21	0%	0	\$0	Karen White																												
P462D1148	Receive DPU/Platform (Qty 2)	16-Sep-21	20-Sep-21	29-Nov-21	01-Dec-21	0%	3	\$154,648	Karen White																												
P462D1151	Test Code - DPU/Platform	21-Dec-21	27-Jan-22	02-Dec-21	07-Jan-22	0%	20	\$13,438	Karen White																												
P04.06.02.03.04 Procure/Fab Safety PLC		25-Oct-21	07-Feb-22	17-Sep-21	06-Jan-22		66	\$52,702																													
P462D1181	Prepare Safety PLC Tech Spec/SOW	25-Oct-21	05-Nov-21	17-Sep-21	30-Sep-21	0%	10	\$12,146	Karen White																												
P462D1184	Procure Safety PLC Components	08-Nov-21	30-Nov-21	08-Oct-21	28-Oct-21	0%	15	\$481	Karen White																												
P462D1187	Fabricate Safety PLC Components	01-Dec-21	04-Feb-22	29-Oct-21	05-Jan-22	0%	40	\$0	Karen White																												
P462D1190	Fabrication Complete - Safety PLC Components		04-Feb-22		05-Jan-22	0%	0	\$0	Karen White																												
P462D1193	Receive Safety PLC Components	07-Feb-22	07-Feb-22	06-Jan-22	06-Jan-22	0%	1	\$40,075	Karen White																												
P04.06.02.03.07 Procure/Fab Cabling and Conduit		01-Nov-21	04-Mar-22	24-Sep-21	27-Jan-22		80	\$14,671																													
P462P370	Procure Cabling and Conduit for BPLS	01-Nov-21	07-Dec-21	24-Sep-21	28-Oct-21	0%	25	\$1,233	Karen White																												
P462P380	Fabricate Cabling and Conduit for BPLS	08-Dec-21	11-Feb-22	29-Oct-21	05-Jan-22	0%	40	\$0	Karen White																												
P462P390	Fabrication Complete - Cabling and Conduit for BPLS		11-Feb-22		05-Jan-22	0%	0	\$0	Karen White																												
P462P400	Receive Cabling and Conduit for BPLS	14-Feb-22	18-Feb-22	06-Jan-22	12-Jan-22	0%	5	\$8,560	Karen White																												
P462P405	Assemble Cabling and Conduit for BPLS	21-Feb-22	04-Mar-22	13-Jan-22	27-Jan-22	0%	10	\$4,878	Karen White																												
P04.06.02.03.08 Modify Rack		02-Aug-21	22-Nov-21	01-Oct-21	03-Feb-22		80	\$14,238																													
P462P520	Procure Rack Components for BPLS	02-Aug-21*	03-Sep-21	01-Oct-21	04-Nov-21	0%	25	\$1,184	Karen White																												
P462P530	Fabricate Rack Components for BPLS	07-Sep-21	01-Nov-21	05-Nov-21	12-Jan-22	0%	40	\$0	Karen White																												
P462P540	Fabrication Complete - Rack Components for BPLS		01-Nov-21		12-Jan-22	0%	0	\$0	Karen White																												
P462P550	Receive Rack Components for BPLS	02-Nov-21	08-Nov-21	13-Jan-22	20-Jan-22	0%	5	\$1,284	Karen White																												
P462P420	Modify Rack for BPLS	09-Nov-21	22-Nov-21	21-Jan-22	03-Feb-22	0%	10	\$11,769	Karen White																												
P04.06.02.03.09 Software Development and Pre-Installation Testing		01-Dec-21	28-Feb-22	07-Jan-22	25-Mar-22		56	\$108,344																													
P462P560	Develop EPICS Software	01-Dec-21	06-Jan-22	07-Jan-22	04-Feb-22	0%	20	\$21,884	Karen White																												
P462P640	Develop Low Level Software for BPLS	07-Jan-22	13-Jan-22	07-Feb-22	11-Feb-22	0%	5	\$25,336	Karen White																												
P462P660	Integrate Low Level Software for Shut Down Modes for BPLS	28-Jan-22	03-Feb-22	14-Feb-22	25-Feb-22	0%	5	\$4,222	Karen White																												
P462P670	Conduct Subsystem Integrated Testing of Shut Down Modes for BPLS	04-Feb-22	10-Feb-22	28-Feb-22	11-Mar-22	0%	5	\$4,222	Karen White																												
P462P650	Conduct Subsystem Integrated Testing of BPLS	08-Feb-22	14-Feb-22	14-Feb-22	18-Feb-22	0%	5	\$30,796	Karen White																												
P462P570	BPLS Systems Integration Testing	15-Feb-22	28-Feb-22	14-Mar-22	25-Mar-22	0%	10	\$21,884	Karen White																												
P04.06.02.04 Installation - Beam Power Limit System		07-Feb-22	02-May-22	03-Feb-22	23-May-22		60	\$204,268																													

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
P04.06.02.04.01	Installation - BPLS - Current Monitor	07-Feb-22	01-Apr-22	03-Feb-22	01-Apr-22		40	\$38,059																
P462I290	Prepare Work Planning Documentation for Current Monitor Installation	07-Feb-22	18-Feb-22	03-Feb-22	16-Feb-22	0%	10	\$14,423	Karen White															
P462I300	Current Monitor Ready for Installation		18-Feb-22		16-Feb-22	0%	0	\$0	Karen White															
P462I110	Install Current Monitor in Beam Line	21-Mar-22	01-Apr-22	28-Mar-22	01-Apr-22	0%	10	\$23,636	Karen White															
P462I099	Start Installation (in Beam Line) - Beam Power Limit System	21-Mar-22		28-Mar-22		0%	0	\$0	Karen White															
P04.06.02.04.03	Installation - BPLS - Balance of System Components	15-Feb-22	02-May-22	14-Mar-22	23-May-22		54	\$166,209																
P462I100	Prepare Work Planning Documentation for BPLS - Balance of System Components Installation	15-Feb-22	28-Feb-22	14-Mar-22	25-Mar-22	0%	10	\$19,487	Karen White															
P462I120	Develop High Level Software for BPLS	01-Mar-22	28-Mar-22	28-Mar-22	25-Apr-22	0%	20	\$35,650	Karen White															
P462I280	BPLS Components Ready for Installation		04-Mar-22		25-Mar-22	0%	0	\$0	Karen White															
P462I279	Install PPS Interface, Shut Down Electronics, Signal Processor in Rack	07-Mar-22	18-Mar-22	28-Mar-22	18-Apr-22	0%	10	\$19,579	Karen White															
P462I130	Install Remaining Equipment for BPLS	21-Mar-22	01-Apr-22	19-Apr-22	02-May-22	0%	10	\$37,285	Karen White															
P462I260	Update Operations Procedures for BPLS	29-Mar-22	19-Apr-22	26-Apr-22	16-May-22	0%	15	\$41,669	Karen White															
P462IMS20	P.04.06.02.04 Beam Power Limit System - Installation Complete (in Beam Line)		01-Apr-22		02-May-22	0%	0	\$0	Karen White															
P462I125	Test High Level Software for BPLS	04-Apr-22	02-May-22	26-Apr-22	23-May-22	0%	20	\$12,538	Karen White															
P04.06.02.05	Testing & Certification - Beam Power Limit System	03-May-22	13-Oct-22	24-May-22	13-Oct-22		115	\$157,019																
P04.06.02.05.02	Testing & Certification - BPLS - Balance of System Components	03-May-22	13-Oct-22	24-May-22	13-Oct-22		115	\$157,019																
P462I200-1	Testing for BPLS (Sytem Test, Integration Testing, Validation Testing) - Phase 1	03-May-22	14-Jun-22	24-May-22	06-Jul-22	0%	30	\$12,501	Karen White															
P462I200-2	Testing for BPLS (Sytem Test, Integration Testing, Validation Testing) - Phase 2	15-Jun-22	03-Aug-22	07-Jul-22	24-Aug-22	0%	35	\$12,501	Karen White															
P462I250	Prepare As-Built Documentation for BPLS	04-Aug-22	10-Aug-22	25-Aug-22	31-Aug-22	0%	5	\$11,529	Karen White															
P462I313	Final FMEA for BPLS	04-Aug-22	17-Aug-22	25-Aug-22	08-Sep-22	0%	10	\$25,862	Karen White															
P462I316	Final Digital Specification for BPLS	04-Aug-22	17-Aug-22	25-Aug-22	08-Sep-22	0%	10	\$25,862	Karen White															
P462I319	Final Analog Specification for BPLS	04-Aug-22	17-Aug-22	25-Aug-22	08-Sep-22	0%	10	\$25,862	Karen White															
P462I322	Final PLC for BPLS	04-Aug-22	17-Aug-22	25-Aug-22	08-Sep-22	0%	10	\$25,862	Karen White															
P462I235	Create BPLS Certification Procedures	25-Aug-22	08-Sep-22	16-Sep-22	29-Sep-22	0%	10	\$11,223	Karen White															
P462I230	Certification of Accelerator PPS for BPLS	07-Oct-22*	13-Oct-22	07-Oct-22	13-Oct-22	0%	5	\$5,817	Karen White															
P04.06.03	Personnel Protection System	06-Apr-20 A	06-Sep-23	06-Apr-20	06-Sep-23		561	\$300,852																
P04.06.03.02	Design - Personnel Protection System - (NEP46320)	06-Apr-20 A	03-May-22	06-Apr-20	03-May-22		228	\$118,926																
P463D100	Define system design for RTBT Stub Radiation Monitor	06-Apr-20 A	31-Aug-20 A	06-Apr-20	31-Aug-20	100%	0	\$0	Karen White															
P463D110	Preliminary Design Review - Personnel Protection System	25-Sep-20 A	25-Sep-20 A	25-Sep-20	25-Sep-20	100%	0	\$0	Karen White															
P04.06.03.02.01	Design - Personnel Protection System	17-Jun-20 A	16-Jul-21	17-Jun-20	06-Jul-21		33	\$37,747																
P463D120	Update System and Software Requirements	17-Jun-20 A	30-Oct-20 A	17-Jun-20	30-Oct-20	100%	0	\$0	Karen White															
P463D120-B	Update System and Software Requirements	03-May-21 A	09-Jul-21	06-Jan-21	24-Feb-21	25%	28	\$28,735	Karen White															
P463D130	Final Design Review - Personnel Protection System	12-Jul-21	16-Jul-21	29-Jun-21	06-Jul-21	0%	5	\$9,012	Karen White															

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
P04.06.03.02.02	Design - PPS Portion of Ring RTBT Stub	04-Jan-21 A	03-May-22	05-Apr-21	03-May-22		45	\$81,180																													
P463D140B	Design RTBT PPS CAB Cabinet (Ring Scope) - Part B	04-Jan-21 A	31-Mar-21 A	05-Apr-21	28-Jun-21	100%	0	\$63,242	Karen White																												
P463D150A	Design Radiation Monitor Interface Cabinet (Ring Scope)	01-Mar-22*	26-Apr-22	01-Mar-22	26-Apr-22	0%	40	\$14,814	Karen White																												
P463D145	Design RTBT Stub BSS (Ring Scope)	27-Apr-22	03-May-22	27-Apr-22	03-May-22	0%	5	\$3,123	Karen White																												
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																												

Table with columns: Activity ID, Activity Name, Start, Finish, BL Start, BL Finish, % Complete, Rem Dur, Budgeted Total Cost, CAM, and fiscal years from FY2016 to FY2028. It lists various activities like 'Fabricate Ring PLC System' and 'RTBT Stub' 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
P472D05B	Define dimensions and location of temporary shielding stack inside RTBT stub - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Nick Evans															
P472D30B	Run neutronics RTBT stub simulations - Part B	01-Apr-19 A	31-Aug-19 A	01-Apr-19	31-Aug-19	100%	0	\$0	Nick Evans															
P472D20B	Determine RTBT stub shielding requirements (neutronics) - Part B	01-Apr-19 A	05-Apr-19 A	01-Apr-19	05-Apr-19	100%	0	\$0	Nick Evans															
P472D05C	Define dimensions and location of temporary shielding stack inside RTBT stub - Part C	03-Sep-19 A	15-Oct-19 A	03-Sep-19	15-Oct-19	100%	0	\$0	Nick Evans															
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															

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
P481D150B	General AP 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	General AP 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	General AP 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																
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																