

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P May FY2021 Status Schedule		03-Oct-16 A	30-Sep-24	03-Oct-16	30-Sep-24		825	\$23,439,264																
P.05 First Target Station Systems		03-Oct-16 A	30-Sep-24	03-Oct-16	30-Sep-24		825	\$23,439,264																
P.05.01 Management and System Integration - First Target Station Systems		03-Oct-16 A	30-Sep-24	03-Oct-16	30-Sep-24		825	\$1,955,441																
OPS009	Improvements Due to Jet Flow Demonstrated (External MS)		01-Aug-17 A		01-Aug-17	100%	0	\$0	Bernie Riemer															
OPS005	First Measurement of Strain Reduction with Gas Injection (External MS)		01-Nov-17 A		01-Nov-17	100%	0	\$0	Bernie Riemer															
OPS002	Results from SNS Operation of GI3 Available (External MS)		22-Feb-18 A		22-Feb-18	100%	0	\$0	Bernie Riemer															
OPS004	Repeatable Strain Reduction of at Least 40% Measured on Two Targets (External MS)		21-May-18 A		21-May-18	100%	0	\$0	Bernie Riemer															
OPS008	Demonstrate Stable Operation with Gas Injection (External MS)		29-Jun-18 A		29-Jun-18	100%	0	\$0	Bernie Riemer															
OPS007	Start Operation at 1.4 MW (External MS)		03-Sep-18 A		03-Sep-18	100%	0	\$0	Bernie Riemer															
OPS006	Erosion Reduction Due to Gas Injection Demonstrated (External MS)		27-Sep-18 A		27-Sep-18	100%	0	\$0	Bernie Riemer															
OPS015	Update of CMS operational health and outlook for 2MW readiness - FY19 (External MS)		29-Aug-19 A		29-Aug-19	100%	0	\$0	Bernie Riemer															
P05PDC	P.5 Preliminary Designs Complete		06-Jan-20 A		06-Jan-20	100%	0	\$0	Bernie Riemer															
OPS013	IRP3 Thermal Analysis with PPU Beam (External MS)		03-Feb-20 A		03-Feb-20	100%	0	\$0	Bernie Riemer															
OPS020	Update of CMS operational health and outlook for 2MW readiness - FY20A (External MS)		03-Feb-20 A		03-Feb-20	100%	0	\$0	Bernie Riemer															
P05FDC10	P.5 Scope for Final Design at CD-3 Review Complete		24-Jun-20 A		24-Jun-20	100%	0	\$0	Bernie Riemer															
OPS025	Update of CMS operational health and outlook for 2MW readiness - FY20B (External MS)		31-Aug-20 A		31-Aug-20	100%	0	\$0	Bernie Riemer															
OPS030	Update of CMS operational health and outlook for 2MW readiness - FY21A (External MS)		26-Feb-21 A		26-Feb-21	100%	0	\$0	Bernie Riemer															
OPS035	Update of CMS operational health and outlook for 2MW readiness - FY21B (External MS)		31-Aug-21*		31-Aug-21	0%	0	\$0	Bernie Riemer															
P05FDC	P.5 Final Designs Complete		14-Sep-21		01-Oct-21	0%	0	\$0	Bernie Riemer															
OPS040	Update of CMS operational health and outlook for 2MW readiness - FY22A (External MS)		28-Feb-22*		28-Feb-22	0%	0	\$0	Bernie Riemer															
OPS045	Update of CMS operational health and outlook for 2MW readiness - FY22B (External MS)		31-Aug-22*		31-Aug-22	0%	0	\$0	Bernie Riemer															
P05IT01	P.05 FTS Integrated Systems Testing Phase 1 Complete		19-Sep-22		16-Aug-22	0%	0	\$0	Bernie Riemer															
P05DOC1	P.05 FTS Documentation for IRR/ERR Phase 1 Complete		26-Sep-22		23-Aug-22	0%	0	\$0	Bernie Riemer															
OPS050	Update of CMS operational health and outlook for 2MW readiness - FY23A (External MS)		28-Feb-23*		28-Feb-23	0%	0	\$0	Bernie Riemer															
P05010	Cryogenic Moderator system upgrades for 2MW complete		26-Apr-23		26-Apr-23	0%	0	\$0	Bernie Riemer															
P05PB1	P.05 Extended Outage Pre Beam ARR Systems Testing and Documetation Complete		29-Jun-23		29-Jun-23	0%	0	\$0	Bernie Riemer															
OPS055	Update of CMS operational health and outlook for 2MW readiness - FY23B (External MS)		31-Aug-23*		31-Aug-23	0%	0	\$0	Bernie Riemer															
P05IT02	P.05 FTS Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Bernie Riemer															
P05DOC2	P.05 FTS Documentation for ARR Phase 2A Complete		25-Sep-23		25-Sep-23	0%	0	\$0	Bernie Riemer															
P05IT03	P.05 FTS Integrated Systems Testing Phase 3 Complete		19-Mar-24		19-Mar-24	0%	0	\$0	Bernie Riemer															
P05DOC3	P.05 FTS Documentation for IRR/ERR Phase 3 Complete		26-Mar-24		26-Mar-24	0%	0	\$0	Bernie Riemer															
P.05.01.01 Management and System Integration - First Target Station Systems		03-Oct-16 A	30-Sep-24	03-Oct-16	30-Sep-24		825	\$1,955,441																
P511M1	P.5 Management FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Bernie Riemer															

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 WBS activities such as 'WBS Management P.5.2 FY18 (LOE)', 'Computer Cluster upgrade FY18', and 'Evaluations at 1.3 GeV (Neutronics)'.

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016																											
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P531M35	3620 Workstation	01-Mar-18 A	01-Mar-18 A	01-Mar-18	01-Mar-18	100%	0	\$0	Craig Bradley																												
P531M6	WBS Management P.5.3 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Craig Bradley																												
P531M11	WBS Management P.5.3 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley																												
P531M11b	WBS Management P.5.3 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Craig Bradley																												
P531M11c	WBS Management P.5.3 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Craig Bradley																												
P531M16a	WBS Management P.5.3 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Craig Bradley																												
P531M16b	WBS Management P.5.3 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Craig Bradley																												
P531M21a	WBS Management P.5.3 FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Craig Bradley																												
P531M21b	WBS Management P.5.3 FY21 (LOE) Continued	02-Nov-20 A	30-Apr-21 A	02-Nov-20	30-Apr-21	100%	0	\$15,495	Craig Bradley																												
P531M21c	WBS Management P.5.3 FY21 (LOE) Continued	03-May-21 A	30-Sep-21	03-May-21	30-Sep-21	18.87%	86	\$7,628	Makayla Edwards																												
P531M60	WBS Management P.5.3 FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$10,500	Craig Bradley																												
P531M50	P.05.03 Final Design Review	22-Sep-21	24-Sep-21	15-Jul-21	19-Jul-21	0%	3	\$19,950	Craig Bradley																												
P531M55	P.05.03 Respond to Design Revisions from FDR	27-Sep-21	08-Oct-21	20-Jul-21	02-Aug-21	0%	10	\$20,934	Craig Bradley																												
P531M26	WBS Management P.5.3 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$18,706	Craig Bradley																												
P531M31	WBS Management P.5.3 FY23 (LOE)	03-Oct-22	19-Sep-23	03-Oct-22	19-Sep-23	0%	237	\$17,669	Craig Bradley																												
P53PB1	P.05.03 Extended Outage Pre Beam ARR Documetation Complete	22-Feb-23	28-Feb-23	22-Feb-23	28-Feb-23	0%	5	\$4,977	Craig Bradley																												
P53IT2	P.05.03 Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Craig Bradley																												
P53DOC2	P.05.03 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$4,977	Craig Bradley																												
P.05.03.02 Evaluations at 1.3 GeV (Mercury Process Systems)		31-Oct-18 A	24-Apr-19 A	31-Oct-18	24-Apr-19		0	\$0																													
P.05.03.02.02 Design - Evaluations at 1.3 GeV (Mercury Process Systems)		31-Oct-18 A	24-Apr-19 A	31-Oct-18	24-Apr-19		0	\$0																													
P532D1	Evaluation of target carriage (thermal)	31-Oct-18 A	31-Mar-19 A	31-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley																												
P532D21	Evaluation of target carriage (thermal) Continued	01-Apr-19 A	24-Apr-19 A	01-Apr-19	24-Apr-19	100%	0	\$0	Craig Bradley																												
P532MS07	Measurements of target carriage temps at 1GeV		24-Apr-19		24-Apr-19	100%	0	\$0	Craig Bradley																												
P.05.03.03 Hg Pump Tank Overflow		05-Apr-18 A	21-Feb-23	05-Apr-18	21-Feb-23		425	\$606,669																													
P.05.03.03.02 Design - Hg Pump Tank Overflow		05-Apr-18 A	21-Sep-21	05-Apr-18	10-May-21		79	\$122,849																													
P533D35	Plan preliminary remote handling for installation of overflow (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Craig Bradley																												
P533D1	Preliminary design for overflow (Apr through Sep)	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Craig Bradley																												
P533D45	Preliminary seismic analysis and calculations during the preliminary design (Sep)	12-Sep-18 A	28-Sep-18 A	12-Sep-18	28-Sep-18	100%	0	\$0	Craig Bradley																												
P533D70	Preliminary design for overflow (Oct through Remain)	01-Oct-18 A	28-Feb-19 A	01-Oct-18	28-Feb-19	100%	0	\$0	Craig Bradley																												
P533D75	Plan preliminary remote handling for installation of overflow (Oct through Remain)	01-Oct-18 A	17-Jan-19 A	01-Oct-18	17-Jan-19	100%	0	\$0	Craig Bradley																												
P533D80	Preliminary seismic analysis and calculations during the preliminary design (Oct through Remain)	01-Oct-18 A	17-Jan-19 A	01-Oct-18	17-Jan-19	100%	0	\$0	Craig Bradley																												
P533MS001	Preliminary remote handling for installation of overflow plan complete		17-Jan-19		17-Jan-19	100%	0	\$0	Craig Bradley																												
P533D60	Internal Design Review for Hg Pump Tank Overflow	01-Feb-19 A	07-Feb-19 A	01-Feb-19	07-Feb-19	100%	0	\$0	Craig Bradley																												

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
P533D6a	Detail design 3D modeling for Hg Pump Tank Overflow	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Craig Bradley														
P533D85a	Detail design drawings for Hg Pump Tank Overflow	09-Jan-20 A	31-Mar-20 A	09-Jan-20	31-Mar-20	100%	0	\$0	Craig Bradley														
P533D55a	Final seismic analysis and calculations during the final design	20-Mar-20 A	31-Mar-20 A	20-Mar-20	31-Mar-20	100%	0	\$0	Craig Bradley														
P533D85b	Detail design drawings for Hg Pump Tank Overflow continued	01-Apr-20 A	31-Jul-20 A	01-Apr-20	31-Jul-20	100%	0	\$0	Craig Bradley														
P533D6b	Detail design 3D modeling for Hg Pump Tank Overflow Continued	01-Apr-20 A	31-Jul-20 A	01-Apr-20	31-Jul-20	100%	0	\$0	Craig Bradley														
P533D55b	Final seismic analysis and calculations during the final design continued	01-Apr-20 A	30-Jun-20 A	01-Apr-20	30-Jun-20	100%	0	\$0	Craig Bradley														
P533D21	Plan final remote handling for installation of overflow	17-Aug-21	30-Aug-21	06-Apr-21	19-Apr-21	0%	10	\$8,262	Craig Bradley														
P533D30	Internal Final Design Review for Hg Pump Tank Overflow	31-Aug-21	07-Sep-21	20-Apr-21	26-Apr-21	0%	5	\$6,148	Craig Bradley														
P533D90	Design revisions after Internal Final Design Review	08-Sep-21	21-Sep-21	27-Apr-21	10-May-21	0%	10	\$24,594	Craig Bradley														
P05.03.03.02.01	First Artide Overflow Tank Level Sensor	12-Mar-20 A	11-Jun-21	12-Mar-20	19-Feb-21		9	\$83,844															
P533D50a	Procure overflow tank level sensor in support of design	12-Mar-20 A	31-Mar-20 A	12-Mar-20	31-Mar-20	100%	0	\$0	Craig Bradley														
P533D50b	Procure overflow tank level sensor in support of design continued	01-Apr-20 A	07-Apr-20 A	01-Apr-20	07-Apr-20	100%	0	\$0	Craig Bradley														
P533D95	Fabricate overflow tank level sensor	08-Apr-20 A	15-Dec-20 A	08-Apr-20	17-Nov-20	100%	0	\$0	Craig Bradley														
P533D100a	Design test assembly for overflow tank level sensor	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Craig Bradley														
P533D100b	Design test assembly for overflow tank level sensor Continued	02-Nov-20 A	23-Feb-21 A	02-Nov-20	17-Nov-20	100%	0	\$2,286	Craig Bradley														
P533MS50	Fabrication of overflow tank level sensor Complete		22-Dec-20 A		17-Nov-20	100%	0	\$0	Craig Bradley														
P533D110	Receive overflow tank level sensor	04-Jan-21 A	04-Jan-21 A	18-Nov-20	18-Nov-20	100%	0	\$52,395	Craig Bradley														
P533D105	Procure and fabricate test assembly for overflow tank level sensor	01-Mar-21 A	11-May-21 A	18-Nov-20	14-Jan-21	100%	0	\$10,400	Craig Bradley														
P533D115	Testing of overflow tank level sensor in TTF	19-Apr-21 A	23-Apr-21 A	15-Jan-21	05-Feb-21	100%	0	\$14,633	Craig Bradley														
P533D120	Test Report for overflow tank level sensor	26-Apr-21 A	11-Jun-21	08-Feb-21	19-Feb-21	80%	9	\$4,131	Craig Bradley														
P05.03.03.03	Procure/Fab - Hg Pump Tank Overflow	11-Oct-21	22-Jun-22	03-Aug-21	13-Apr-22		171	\$469,004															
P533P11	Procure overflow	11-Oct-21	29-Oct-21	03-Aug-21	23-Aug-21	0%	15	\$481	Craig Bradley														
P533P050	Procure overflow tank level sensor spare	11-Oct-21	29-Oct-21	03-Aug-21	23-Aug-21	0%	15	\$481	Craig Bradley														
P533P16	Fabricate overflow	01-Nov-21	02-May-22	24-Aug-21	22-Feb-22	0%	120	\$0	Craig Bradley														
P533P055	Fabricate overflow tank level sensor spare	01-Nov-21	21-Jun-22	24-Aug-21	12-Apr-22	0%	155	\$0	Craig Bradley														
P533MS45	Fabrication of overflow Complete		02-May-22		22-Feb-22	0%	0	\$0	Craig Bradley														
P533P45	Receive overflow	03-May-22	03-May-22	23-Feb-22	23-Feb-22	0%	1	\$394,583	Craig Bradley														
P533P40	Overflow remote handling mockup testing	04-May-22	08-Jun-22	24-Feb-22	30-Mar-22	0%	25	\$20,540	Craig Bradley														
P533MS55	Fabrication of overflow tank level sensor spare Complete		21-Jun-22		12-Apr-22	0%	0	\$0	Craig Bradley														
P533P060	Receive overflow tank level sensor spare	22-Jun-22	22-Jun-22	13-Apr-22	13-Apr-22	0%	1	\$52,919	Craig Bradley														
P05.03.03.04	Installation - Hg Pump Tank Overflow	25-Jan-23	21-Feb-23	25-Jan-23	21-Feb-23		20	\$14,816															
P533I65	Installation Review for overflow	25-Jan-23	31-Jan-23	25-Jan-23	31-Jan-23	0%	5	\$6,913	Craig Bradley														
P533I26	Install Hg Pump Tank Overflow	01-Feb-23	21-Feb-23	01-Feb-23	21-Feb-23	0%	15	\$7,903	Craig Bradley														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Breakdown																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029														
P.05.03.04 Hg Return GLS		03-Dec-18 A	30-Aug-21	03-Dec-18	14-Jul-21		64	\$199,780																													
P.05.03.04.02 Design - Hg Return GLS		03-Dec-18 A	30-Aug-21	03-Dec-18	14-Jul-21		64	\$199,780																													
P534D40	Plan preliminary remote handling for installation of GLS	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	\$0	Craig Bradley																												
P534D1	Preliminary design for GLS	03-Dec-18 A	31-Mar-19 A	03-Dec-18	31-Mar-19	100%	0	\$0	Craig Bradley																												
P534D135a	Design remote installation mockup for GLS	31-Mar-19 A	01-Apr-20 A	31-Mar-19	01-Apr-20	100%	0	\$0	Craig Bradley																												
P534D40b	Plan preliminary remote handling for installation of GLS Continued	01-Apr-19 A	23-Apr-19 A	01-Apr-19	23-Apr-19	100%	0	\$0	Craig Bradley																												
P534D1b	Preliminary design for GLS Continued	01-Apr-19 A	23-Apr-19 A	01-Apr-19	23-Apr-19	100%	0	\$0	Craig Bradley																												
P534MS001	Complete Gaseous Liquid Separator (GLS) - Preliminary Design Meeting		23-Apr-19 A		23-Apr-19	100%	0	\$0	Craig Bradley																												
P534D50	Internal Design Review for GLS	24-May-19 A	31-May-19 A	24-May-19	31-May-19	100%	0	\$0	Craig Bradley																												
P534D6a	Detail Design 3d modeling for GLS	31-Jan-20 A	31-Mar-20 A	31-Jan-20	31-Mar-20	100%	0	\$0	Craig Bradley																												
P534D35	Review original piping stress analysis	17-Feb-20 A	24-Feb-20 A	17-Feb-20	24-Feb-20	100%	0	\$0	Craig Bradley																												
P534D70	Stress analysis planning meeting	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Craig Bradley																												
P534D75a	Stress analysis calculations	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Craig Bradley																												
P534D45	Review GLS design with Remote Handling group	01-Apr-20 A	14-Apr-20 A	01-Apr-20	14-Apr-20	100%	0	\$0	Craig Bradley																												
P534D135b	Design remote installation mockup for GLS continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Craig Bradley																												
P534D75b	Stress analysis calculations continued	01-Apr-20 A	31-Jul-20 A	01-Apr-20	31-Jul-20	100%	0	\$0	Craig Bradley																												
P534D6b	Detail Design 3d modeling for GLS continued	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Craig Bradley																												
P534D95a	Remote handling 3D modelling for GLS	14-Apr-20 A	30-Oct-20 A	14-Apr-20	30-Oct-20	100%	0	\$0	Craig Bradley																												
P534D170a	Procure hardware for remote installation mockup for GLS	08-May-20 A	30-Oct-20 A	08-May-20	30-Oct-20	100%	0	\$0	Craig Bradley																												
P534D80	Stress analysis report	10-Aug-20 A	28-Sep-20 A	10-Aug-20	28-Sep-20	100%	0	\$0	Craig Bradley																												
P534D6c	Detail Design 3d modeling for GLS continued	02-Nov-20 A	23-Apr-21 A	02-Nov-20	02-Dec-20	100%	0	\$10,637	Craig Bradley																												
P534D95b	Remote handling 3D modelling for GLS Continued	02-Nov-20 A	09-Apr-21 A	02-Nov-20	02-Dec-20	100%	0	\$3,088	Craig Bradley																												
P534D170b	Procure hardware for OFT Mockup	02-Nov-20 A	05-Apr-21 A	02-Nov-20	16-Nov-20	100%	0	\$525	Craig Bradley																												
P534D85	Stress analysis review meeting	01-Feb-21 A	05-Feb-21 A	11-Jan-21	15-Jan-21	100%	0	\$3,324	Craig Bradley																												
P534D90	Final stress analysis and report	01-Mar-21 A	23-Apr-21 A	19-Jan-21	15-Feb-21	100%	0	\$19,945	Craig Bradley																												
P534D60	Detail Design drawings for GLS	24-Mar-21 A	23-Apr-21 A	20-Apr-21	14-Jul-21	100%	0	\$60,845	Craig Bradley																												
P534D145	Fabricate remote installation mockup for OFT	05-Apr-21 A	30-Jul-21	17-Nov-20	18-Mar-21	50%	43	\$0	Craig Bradley																												
P534D100	Follow-up remote handling design review with Remote Handling group for GLS	09-Apr-21 A	15-Apr-21 A	03-Dec-20	09-Dec-20	100%	0	\$1,033	Craig Bradley																												
P534D105	Design revisions after follow-up review remote handling of GLS	15-Apr-21 A	21-Apr-21 A	10-Dec-20	16-Dec-20	100%	0	\$1,033	Craig Bradley																												
P534D180	Fabrication of remote installation mockup for OFT complete		30-Jul-21		18-Mar-21	0%	0	\$0	Craig Bradley																												
P534D185	Receive remote installation mockup for OFT	02-Aug-21	02-Aug-21	19-Mar-21	19-Mar-21	0%	1	\$83,750	Craig Bradley																												
P534D155	Mockup Testing for OFT	03-Aug-21	30-Aug-21	22-Mar-21	19-Apr-21	0%	20	\$11,270	Craig Bradley																												
P.05.03.04.02.01 First Artide Design Support for GLS Porous Filter		01-Nov-19 A	14-Apr-21 A	01-Nov-19	30-Nov-20		0	\$4,329																													

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
P534D110	Procure GLS Porous Filters	01-Nov-19 A	10-Dec-19 A	01-Nov-19	10-Dec-19	100%	0	\$0	Craig Bradley															
P534D115	Fabricate GLS Porous Filters	10-Dec-19 A	23-Mar-20 A	10-Dec-19	23-Mar-20	100%	0	\$0	Craig Bradley															
P534MS008	Fabrication of GLS Porous Filters complete		23-Mar-20 A		23-Mar-20	100%	0	\$0	Craig Bradley															
P534D120	Receive GLS Porous Filters	24-Mar-20 A	24-Mar-20 A	24-Mar-20	24-Mar-20	100%	0	\$0	Craig Bradley															
P534D125a	Install and Test GLS Porous Filters	31-Mar-20 A	31-Mar-20 A	31-Mar-20	31-Mar-20	100%	0	\$0	Craig Bradley															
P534D125b	Install and Test GLS Porous Filters continued	17-Apr-20 A	30-Oct-20 A	17-Apr-20	30-Oct-20	100%	0	\$0	Craig Bradley															
P534D125c	Install and Test GLS Porous Filters continued	02-Nov-20 A	14-Apr-21 A	02-Nov-20	30-Nov-20	100%	0	\$4,329	Craig Bradley															
P05.03.04.02.02 First Artide Design Support for Hg Return GLS and Hg Pump Tank Overflow		02-Dec-19 A	16-Oct-20 A	02-Dec-19	16-Oct-20		0	\$0																
P534D130	Procure Grayloc Connectors	02-Dec-19 A	24-Jan-20 A	02-Dec-19	24-Jan-20	100%	0	\$0	Craig Bradley															
P534D140	Fabricate Grayloc Connectors	24-Jan-20 A	15-Oct-20 A	24-Jan-20	15-Oct-20	100%	0	\$0	Craig Bradley															
P534MS009	Fabrication of Grayloc Connectors complete		15-Oct-20 A		15-Oct-20	100%	0	\$0	Craig Bradley															
P534D160	Receive Grayloc Connectors	16-Oct-20 A	16-Oct-20 A	16-Oct-20	16-Oct-20	100%	0	\$0	Craig Bradley															
P05.03.05 In-Cell Target Gas Supply Hardware		30-Sep-17 A	21-Feb-23	30-Sep-17	21-Feb-23		425	\$107,219																
P05.03.05.02 Design - In-Cell Target Gas Supply Hardware		30-Sep-17 A	14-Jun-21	30-Sep-17	27-May-21		10	\$58,133																
P535MS01	GI3 Gas supply pathway allows for two gas supplies		30-Sep-17 A		30-Sep-17	100%	0	\$0	Craig Bradley															
P535D1	Preliminary design for in-cell gas supply (Aug through Sep)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Craig Bradley															
P535D35	Plan preliminary remote handling for installation of in-cell gas supply hardware	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley															
P535D55	Preliminary design for in-cell gas supply (Oct through remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Craig Bradley															
P535D35b	Plan preliminary remote handling for installation of in-cell gas supply hardware Continued	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Craig Bradley															
P535D55b	Preliminary design for in-cell gas supply Continued	01-Apr-19 A	28-Jun-19 A	01-Apr-19	28-Jun-19	100%	0	\$0	Craig Bradley															
P535D45	Internal Design Review for in-cell gas supply	19-Jun-19 A	28-Jun-19 A	19-Jun-19	28-Jun-19	100%	0	\$0	Craig Bradley															
P535D6	Detail design 3D modeling for in-cell gas supply hardware	16-Dec-20 A	16-Apr-21 A	02-Nov-20	10-Feb-21	100%	0	\$22,163	Craig Bradley															
P535D70	Remote handling 3D modelling of in-cell gas supply hardware	16-Dec-20 A	16-Apr-21 A	09-Nov-20	17-Feb-21	100%	0	\$1,979	Craig Bradley															
P535D40	Review design of in-cell gas supply hardware with Remote Handling group	04-Jan-21 A	26-Jan-21 A	02-Nov-20	06-Nov-20	100%	0	\$164	Craig Bradley															
P535D60	Detail design drawings for in-cell gas supply hardware	25-Mar-21 A	30-Apr-21 A	11-Feb-21	06-May-21	100%	0	\$22,159	Craig Bradley															
P535D75	Follow-up remote handling design of in-cell gas supply hardware review with Remote Handling group	29-Mar-21 A	16-Apr-21 A	18-Feb-21	24-Feb-21	100%	0	\$165	Craig Bradley															
P535D80	Design revisions of in-cell gas supply hardware after follow-up review	16-Apr-21 A	16-Apr-21 A	25-Feb-21	03-Mar-21	100%	0	\$165	Craig Bradley															
P535D30	Internal Final Design Review for in-cell gas supply	26-May-21 A	26-May-21 A	07-May-21	13-May-21	100%	0	\$8,197	Craig Bradley															
P535D65	Design revisions after internal Final Design Review for in-cell gas supply hardware	01-Jun-21	14-Jun-21	14-May-21	27-May-21	0%	10	\$3,140	Craig Bradley															
P05.03.05.03 Procure/Fab - In-Cell Target Gas Supply Hardware		11-Oct-21	01-Jun-22	03-Aug-21	23-Mar-22		156	\$34,698																
P535P11	Procure in-cell gas supply hardware	11-Oct-21*	29-Oct-21	03-Aug-21	23-Aug-21	0%	15	\$481	Craig Bradley															
P535P16	Fabricate gas supply hardware	01-Nov-21	02-May-22	24-Aug-21	22-Feb-22	0%	120	\$0	Craig Bradley															
P535MS215	Fabrication Complete for in-cell gas supply hardware		02-May-22		22-Feb-22	0%	0	\$0	Craig Bradley															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P542D020	Size Ortho/Para Converters (Sep)	10-Sep-18 A	28-Sep-18 A	10-Sep-18	28-Sep-18	100%	0	\$0	Matt Williamson																						
P542D65	Prepare preliminary design for Ortho/Para converters (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Williamson																						
P542D75	Size Ortho/Para Converters (Oct through Remain)	01-Oct-18 A	19-Mar-19 A	01-Oct-18	19-Mar-19	100%	0	\$0	Matt Williamson																						
P542D70	Update P&ID (Oct through Remain)	01-Oct-18 A	04-Jan-19 A	01-Oct-18	04-Jan-19	100%	0	\$0	Matt Williamson																						
P542D65b	Prepare preliminary design for Ortho/Para converters Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson																						
P542D60	Prepare Instrumentation and Controls Preliminary Design	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson																						
P542D30	Perform preliminary safety hazard analysis	03-Sep-19 A	26-Sep-19 A	03-Sep-19	26-Sep-19	100%	0	\$0	Matt Williamson																						
P542D65c	Prepare preliminary design for Ortho/Para converters (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson																						
P542D60b	Prepare Instrumentation and Controls Preliminary Design (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson																						
P542MS001	Preliminary design for Ortho/Para converters Complete		05-Dec-19 A		05-Dec-19	100%	0	\$0	Matt Williamson																						
P542D40a	Finalize vacuum vessel design	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson																						
P542D45a	Perform final safety hazard analysis	17-Feb-20 A	31-Mar-20 A	17-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson																						
P542D85a	Finalize H2 loop piping design	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson																						
P542D90a	Finalize design of diagnostic viewports and penetrations	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson																						
P542D40b	Finalize vacuum vessel design continued	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	Matt Williamson																						
P542D45b	Perform final safety hazard analysis continued	01-Apr-20 A	17-Aug-20 A	01-Apr-20	17-Aug-20	100%	0	\$0	Matt Williamson																						
P542D85b	Finalize H2 loop piping design continued	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	Matt Williamson																						
P542D90b	Finalize design of diagnostic viewports and penetrations continued	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	Matt Williamson																						
P542D35	Final Design Review for Ortho/Para converters	18-Sep-20 A	18-Sep-20 A	18-Sep-20	18-Sep-20	100%	0	\$0	Matt Williamson																						
P05.04.02.03 Procure/Fab - Ortho-Para Hydrogen Converters		07-Oct-20 A	11-Jul-22	07-Oct-20	08-Apr-22		275	\$277,104																							
P05.04.02.03.01 Ortho-Para Converter Vessel Assembly Procurement		07-Oct-20 A	11-Jul-22	07-Oct-20	08-Apr-22		275	\$277,104																							
P542P226a	Prepare SOW, final drawing package, and Tech Spec for Ortho/Para Converter vessel assembly	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson																						
P542P255a	Prepare Assembly and Leak Testing Procedures	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson																						
P542P226b	Prepare SOW, final drawing package, and Tech Spec for Ortho/Para Converter vessel assembly Continued	02-Nov-20 A	02-Mar-21 A	02-Nov-20	10-Dec-20	100%	0	\$11,691	Matt Williamson																						
P542P255b	Prepare Assembly and Leak Testing Procedures Continued	02-Nov-20 A	02-Mar-21 A	02-Nov-20	10-Dec-20	100%	0	\$7,682	Matt Williamson																						
P542P236	Procurement Review and Bid for Ortho/Para Converter vessel assembly	01-Mar-21 A	05-Mar-21 A	18-Dec-20	29-Jan-21	100%	0	\$1,477	Matt Williamson																						
P542P231	Procurement Readiness Review (PRR) for Ortho/Para Converter vessel assembly	03-Mar-21 A	11-Mar-21 A	11-Dec-20	17-Dec-20	100%	0	\$369	Matt Williamson																						
P542MS220	Issue RFP for Ortho/Para Converter vessel assembly		05-Mar-21 A		29-Jan-21	100%	0	\$0	Matt Williamson																						
P542MS215	Technical Package to Procurement for Ortho/Para Converter vessel assembly		11-Mar-21 A		17-Dec-20	100%	0	\$0	Matt Williamson																						
P542P241	Solicitation Period for Ortho/Para Converter vessel assembly	16-Apr-21 A	18-Jun-21	01-Feb-21	19-Mar-21	40%	14	\$2,216	Matt Williamson																						
P542MS225	Solicitation Complete for Ortho/Para Converter vessel assembly		18-Jun-21		19-Mar-21	0%	0	\$0	Matt Williamson																						
P542P16	Review and award contract for Ortho/Para Converter vessel assembly	21-Jun-21	19-Jul-21	22-Mar-21	19-Apr-21	0%	20	\$1,477	Matt Williamson																						
P542MS230	Award Contract for Ortho/Para Converter vessel assembly		19-Jul-21		19-Apr-21	0%	0	\$0	Matt Williamson																						

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P542P21	Fabricate Ortho/Para converter vessel assembly	20-Jul-21	08-Jul-22	20-Apr-21	07-Apr-22	0%	240	\$0	Matt Williamson														
P542MS235	Fabrication Complete for Ortho/Para Converter vessel assembly		08-Jul-22		07-Apr-22	0%	0	\$0	Matt Williamson														
P542P251	Receive Ortho/Para converter vessel assembly	11-Jul-22	11-Jul-22	08-Apr-22	08-Apr-22	0%	1	\$252,191	Matt Williamson														
P05.04.02.04 Installation - Ortho-Para Hydrogen Converters		01-Feb-23	26-Apr-23	01-Feb-23	26-Apr-23		60	\$154,474															
P542I36	Room prep and Mechanical Installation of Ortho/Para Converters	01-Feb-23	21-Feb-23	01-Feb-23	21-Feb-23	0%	15	\$76,760	Matt Williamson														
P542I41	Vacuum Integrity Testing of Hydrogen Loops	22-Feb-23	14-Mar-23	22-Feb-23	14-Mar-23	0%	15	\$38,048	Matt Williamson														
P5424IMS001	P.05.04.02.04_Installation Complete		14-Mar-23		14-Mar-23	0%	0	\$0	Matt Williamson														
P5424IMS006	P.05.04.02.04_Operational procedures updated for Ortho-Para Hydrogen Converters		14-Mar-23		14-Mar-23	0%	0	\$0	Matt Williamson														
P542I31	Integrated Testing of ortho/para converters (without beam)	29-Mar-23	26-Apr-23	29-Mar-23	26-Apr-23	0%	20	\$39,666	Matt Williamson														
P05.04.03 Ortho-Para Hydrogen Converter Diagnostics		07-May-18 A	28-Mar-23	07-May-18	28-Mar-23		450	\$185,837															
P05.04.03.02 Design - Ortho-Para Hydrogen Converter Diagnostics		07-May-18 A	19-Jul-21	07-May-18	16-Apr-21		34	\$14,451															
P543D25	Identify and prep workspace for first article development (May through Sep)	07-May-18 A	28-Sep-18 A	07-May-18	28-Sep-18	100%	0	\$0	Matt Williamson														
P543D60	Identify and prep workspace for first article development (Oct through Remain)	01-Oct-18 A	21-Nov-18 A	01-Oct-18	21-Nov-18	100%	0	\$0	Matt Williamson														
P543D15	Procure First Article Ortho-Para Hydrogen Diagnostic components	01-Oct-18 A	21-Nov-18 A	01-Oct-18	21-Nov-18	100%	0	\$0	Matt Williamson														
P543D50	Preliminary Design Complete		21-Nov-18 A		21-Nov-18	100%	0	\$0	Matt Williamson														
P543MS001	Space ready for use with JHA / RSS		21-Nov-18 A		21-Nov-18	100%	0	\$0	Matt Williamson														
P543MS002	Order First Article Ortho-Para Hydrogen Diagnostic components		21-Nov-18 A		21-Nov-18	100%	0	\$0	Matt Williamson														
P543D40	Fabricate First Article Ortho-Para Hydrogen Diagnostic components	03-Dec-18 A	06-Feb-19 A	03-Dec-18	06-Feb-19	100%	0	\$0	Matt Williamson														
P543D20	Receive First Article Ortho-Para Hydrogen Diagnostic components	07-Feb-19 A	07-Feb-19 A	07-Feb-19	07-Feb-19	100%	0	\$0	Matt Williamson														
P543D30	Assemble first article ortho-para hydrogen diagnostic	08-Feb-19 A	15-Mar-19 A	08-Feb-19	15-Mar-19	100%	0	\$0	Matt Williamson														
P543D35	Test first article ortho-para hydrogen diagnostic	18-Mar-19 A	31-Mar-19 A	18-Mar-19	31-Mar-19	100%	0	\$0	Matt Williamson														
P543D35b	Test first article ortho-para hydrogen diagnostic Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson														
P543D1a	Develop specifications for Ortho/Para converter diagnostics	27-Sep-19 A	31-Mar-20 A	27-Sep-19	31-Mar-20	100%	0	\$0	Matt Williamson														
P543D35c	Test first article ortho-para hydrogen diagnostic	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson														
P543D65a	Diagnostic window test article design and fabrication	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson														
P543D35d	Test first article ortho-para hydrogen diagnostic continued	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Matt Williamson														
P543D65b	Diagnostic window test article design and fabrication continued	01-Apr-20 A	15-May-20 A	01-Apr-20	15-May-20	100%	0	\$0	Matt Williamson														
P543D1b	Develop specifications for Ortho/Para converter diagnostics continued	01-May-20 A	23-Jun-20 A	01-May-20	23-Jun-20	100%	0	\$0	Matt Williamson														
P543D75	Diagnostic window life-cycle testing	18-May-20 A	17-Sep-20 A	18-May-20	17-Sep-20	100%	0	\$0	Matt Williamson														
P543D55	Final Design Review for Ortho-Para Hydrogen Converter Diagnostics		17-Sep-20 A		17-Sep-20	100%	0	\$0	Matt Williamson														
P543D65	Raman window configuration testing	03-May-21 A	19-Jul-21	02-Nov-20	01-Feb-21	50%	34	\$7,226	Matt Williamson														
P543D80	Mk. 2 sapphire probe testing	12-May-21 A	17-Jun-21	02-Feb-21	16-Apr-21	30%	13	\$7,226	Matt Williamson														
P05.04.03.03 Procure/Fab - Ortho-Para Hydrogen Converter Diagnostics		07-Oct-20 A	09-Aug-22	07-Oct-20	08-Apr-22		296	\$166,409															

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
P543P246a	Prepare SOW and Tech Spec for Ortho/Para Converter diagnostics	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson														
P543P246b	Prepare SOW and Tech Spec for Ortho/Para Converter diagnostics Continued	02-Nov-20 A	02-Mar-21 A	02-Nov-20	10-Dec-20	100%	0	\$10,570	Matt Williamson														
P543P251	Procurement Readiness Review (PRR) for Ortho/Para Converter diagnostics	03-Mar-21 A	11-Mar-21 A	11-Dec-20	17-Dec-20	100%	0	\$369	Matt Williamson														
P543MS245	Technical Package to Procurement for Ortho/Para Converter diagnostics		11-Mar-21 A		17-Dec-20	100%	0	\$0	Matt Williamson														
P543P256	Procurement Review and Bid for Ortho/Para Converter diagnostics	03-May-21 A	07-May-21 A	18-Dec-20	29-Jan-21	100%	0	\$1,477	Matt Williamson														
P543P261	Solicitation Period for Ortho/Para diagnostics	01-Jun-21	20-Jul-21	01-Feb-21	19-Mar-21	0%	35	\$2,216	Matt Williamson														
P543MS250	Issue RFP for Ortho/Para Converter diagnostics		01-Jun-21		29-Jan-21	0%	0	\$0	Matt Williamson														
P543MS255	Solicitation Complete for Ortho/Para Converter diagnostics		20-Jul-21		19-Mar-21	0%	0	\$0	Matt Williamson														
P543P6	Review and award contract for Ortho/Para diagnostics	21-Jul-21	17-Aug-21	22-Mar-21	19-Apr-21	0%	20	\$1,477	Matt Williamson														
P543MS260	Award Contract for Ortho/Para Converter diagnostics		17-Aug-21		19-Apr-21	0%	0	\$0	Matt Williamson														
P543P11	Fabricate Ortho/Para diagnostics	18-Aug-21	08-Aug-22	20-Apr-21	07-Apr-22	0%	240	\$0	Matt Williamson														
P543MS270	Fabrication Complete for Ortho/Para Converter diagnostics		08-Aug-22		07-Apr-22	0%	0	\$0	Matt Williamson														
P543P266	Receive Ortho/Para diagnostics	09-Aug-22	09-Aug-22	08-Apr-22	08-Apr-22	0%	1	\$150,300	Matt Williamson														
P05.04.03.04 Installation - Ortho-Para Hydrogen Converter Diagnostics		15-Mar-23	28-Mar-23	15-Mar-23	28-Mar-23		10	\$4,977															
P543116	Install Ortho/Para Converter diagnostics	15-Mar-23	28-Mar-23	15-Mar-23	28-Mar-23	0%	10	\$4,977	Matt Williamson														
P05.04.04 Hydrogen Refill System Expansion and Relocation		07-May-18 A	19-Sep-22	07-May-18	19-Sep-22		324	\$226,284															
P05.04.04.02 Design - Hydrogen Refill System Expansion and Relocation		07-May-18 A	20-Nov-20 A	07-May-18	20-Nov-20		0	\$952															
P544D15	Prepare Instrumentation and Controls Preliminary Design (May through Sep)	07-May-18 A	28-Sep-18 A	07-May-18	28-Sep-18	100%	0	\$0	Matt Williamson														
P544D5	Prepare Mechanical Preliminary Design (May through Sep)	07-May-18 A	28-Sep-18 A	07-May-18	28-Sep-18	100%	0	\$0	Matt Williamson														
P544D35	Prepare Mechanical Preliminary Design (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Williamson														
P544D40	Prepare Instrumentation and Controls Preliminary Design (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Matt Williamson														
P544D35b	Prepare Mechanical Preliminary Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson														
P544D40b	Prepare Instrumentation and Controls Preliminary Design Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Matt Williamson														
P544D35c	Prepare Mechanical Preliminary Design (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson														
P544D40c	Prepare Instrumentation and Controls Preliminary Design (Sept 19 only)	03-Sep-19 A	05-Dec-19 A	03-Sep-19	05-Dec-19	100%	0	\$0	Matt Williamson														
P544MS001	Mechanical Preliminary Design Complete		05-Dec-19 A		05-Dec-19	100%	0	\$0	Matt Williamson														
P544D10a	Finalize H2 inventory housing design	06-Jan-20 A	31-Mar-20 A	06-Jan-20	31-Mar-20	100%	0	\$0	Matt Williamson														
P544D45a	Finalize gas management panel design	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson														
P544D60a	Finalize I&C schematic design, PCD P&ID	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Matt Williamson														
P544D70	Finalize HMI design	01-Apr-20 A	10-Aug-20 A	01-Apr-20	10-Aug-20	100%	0	\$0	Matt Williamson														
P544D50	Finalize piping design	01-Apr-20 A	11-Aug-20 A	01-Apr-20	11-Aug-20	100%	0	\$0	Matt Williamson														
P544D10b	Finalize H2 inventory housing design continued	01-Apr-20 A	10-Aug-20 A	01-Apr-20	10-Aug-20	100%	0	\$0	Matt Williamson														
P544D45b	Finalize gas management panel design continued	01-Apr-20 A	10-Aug-20 A	01-Apr-20	10-Aug-20	100%	0	\$0	Matt Williamson														

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
P544D60b	Finalize I&C schematic design, PCD P&ID	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Matt Williamson															
P544D30	Final Design Review for Hydrogen Refill System Expansion and Relocation	17-Sep-20 A	17-Sep-20 A	17-Sep-20	17-Sep-20	100%	0	\$0	Matt Williamson															
P544D60c	Finalize I&C schematic design, PCD P&ID Continued	02-Nov-20 A	20-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$952	Matt Williamson															
P05.04.04.03 Procure/Fab - Hydrogen Refill System Expansion and Relocation		07-Oct-20 A	18-Oct-21	07-Oct-20	16-Mar-21		98	\$100,476																
P544P005a	Procure HRS gas management panel and inventory housing	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Matt Williamson															
P544P005b	Procure HRS gas management panel and inventory housing Continued	01-Dec-20 A	25-Jan-21 A	02-Nov-20	25-Nov-20	100%	0	\$550	Matt Williamson															
P544P020	Fabricate HRS gas management panel and inventory housing	03-May-21 A	15-Oct-21	30-Nov-20	15-Mar-21	5%	97	\$0	Matt Williamson															
P544MS005	Fabrication of HRS gas management panel and inventory housing complete		15-Oct-21		15-Mar-21	0%	0	\$0	Matt Williamson															
P544P20	Receive HRS gas management panel and inventory housing	18-Oct-21	18-Oct-21	16-Mar-21	16-Mar-21	0%	1	\$99,925	Matt Williamson															
P05.04.04.04 Installation - Hydrogen Refill System Expansion and Relocation		08-Aug-22	19-Sep-22	08-Aug-22	19-Sep-22		30	\$124,857																
P544I005	Mechanical Installation and Integrated Testing of Redesigned Hydrogen Refill Station	08-Aug-22	19-Sep-22	08-Aug-22	19-Sep-22	0%	30	\$124,857	Matt Williamson															
P05.05 Vessel and Shielding Systems		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																
P05.05.01 Management and System Integration - Vessel and Shielding Systems		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																
P05.05.01.01 Management and System Integration - Vessel and Shielding Systems		03-Oct-16 A	30-Sep-20 A	03-Oct-16	30-Sep-20		0	\$0																
P551M1	WBS Management P.5.5 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Oscar Martinez															
P551M10	WBS Management P.5.5 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Oscar Martinez															
P551M6	WBS Management P.5.5 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P551M20	WBS Management P.5.5 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Oscar Martinez															
P551M20b	WBS Management P.5.5 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Oscar Martinez															
P551M20c	WBS Management P.5.5 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Oscar Martinez															
P551M25a	WBS Management P.5.5 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez															
P551M25b	WBS Management P.5.5 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Oscar Martinez															
P05.05.02 Evaluations at 1.3 GeV (Vessel and Shielding Systems)		05-Apr-18 A	30-Sep-20 A	05-Apr-18	30-Sep-20		0	\$0																
P05.05.02.02 Design - Evaluations at 1.3 GeV (Vessel and Shielding Systems)		05-Apr-18 A	30-Sep-20 A	05-Apr-18	30-Sep-20		0	\$0																
P552D11	Review operational data	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D25	Evaluation of outer reflector plug - Fluid Analysis @ 2MW Energy Deposition	05-Apr-18 A	28-Sep-18 A	05-Apr-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D35	Evaluation of outer reflector plug - Steady State Thermal Analysis	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D40	Evaluation of outer reflector plug - Thermal Structural (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552D65	Evaluation of core vessel target port - Steady State Thermal Analysis (Sep)	18-Sep-18 A	28-Sep-18 A	18-Sep-18	28-Sep-18	100%	0	\$0	Oscar Martinez															
P552MS001	Setpoint Changes for ORP		01-Oct-18 A		01-Oct-18	100%	0	\$0	Oscar Martinez															
P552D95	Evaluation of outer reflector plug - Fluid Analysis DAC write up and review	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	Oscar Martinez															
P552D85	Evaluation of outer reflector plug - Thermal Structural (Oct through Remain)	01-Oct-18 A	01-Oct-18 A	01-Oct-18	01-Oct-18	100%	0	\$0	Oscar Martinez															
P552D90	Evaluation of core vessel target port - Steady State Thermal Analysis (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Oscar Martinez															

May FY2021 Status Schedule			WBS - Detailed Sep21 IPR v1								13-Aug-21 09:28													
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
P552D45	Evaluation of outer reflector plug - Radiation Damage	02-Oct-18 A	16-Oct-18 A	02-Oct-18	16-Oct-18	100%	0	\$0	Oscar Martinez															
P552D55	Evaluation of core vessel target port - Fluid Analysis @ 2MW Energy Deposition	09-Oct-18 A	05-Mar-19 A	09-Oct-18	05-Mar-19	100%	0	\$0	Oscar Martinez															
P552D70	Evaluation of core vessel target port - Thermal Structural	16-Oct-18 A	29-Mar-19 A	16-Oct-18	29-Mar-19	100%	0	\$0	Oscar Martinez															
P552D21	Prepare document justifying increase in lifetime radiation damage dose to outer reflector plug; approve and issue.	16-Oct-18 A	20-Mar-19 A	16-Oct-18	20-Mar-19	100%	0	\$0	Oscar Martinez															
P552D50	Evaluation of outer reflector plug - Thermal, Structural DAC write up and review	17-Oct-18 A	12-Nov-18 A	17-Oct-18	12-Nov-18	100%	0	\$0	Oscar Martinez															
P552MS004	Evaluation of outer reflector plug - Thermal, Structural DAC write up and review complete		12-Nov-18 A		12-Nov-18	100%	0	\$0	Oscar Martinez															
P552D60	Evaluation of core vessel target port - Fluid Analysis DAC write up and review	07-Jan-19 A	28-Mar-19 A	07-Jan-19	28-Mar-19	100%	0	\$0	Oscar Martinez															
P552D80	Evaluation of core vessel target port - Thermal, Structural DAC write up and review	09-Jan-19 A	31-Mar-19 A	09-Jan-19	31-Mar-19	100%	0	\$0	Oscar Martinez															
P552MS003	Document justifying increase in lifetime radiation damage dose to outer reflector plug approved and issued		20-Mar-19 A		20-Mar-19	100%	0	\$0	Oscar Martinez															
P552D70b	Evaluation of core vessel target port - Thermal Structural Continued	01-Apr-19 A	20-Apr-19 A	01-Apr-19	20-Apr-19	100%	0	\$0	Oscar Martinez															
P552D90b	Evaluation of core vessel target port - Steady State Thermal Analysis Continued	01-Apr-19 A	20-Apr-19 A	01-Apr-19	20-Apr-19	100%	0	\$0	Oscar Martinez															
P552D80b	Evaluation of core vessel target port - Thermal, Structural DAC write up and review Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Oscar Martinez															
P552D75	Evaluation of core vessel target port - Radiation Damage	17-Apr-19 A	18-Apr-19 A	17-Apr-19	18-Apr-19	100%	0	\$0	Oscar Martinez															
P552MS002	Setpoint Changes for Core Vessel		20-Apr-19 A		20-Apr-19	100%	0	\$0	Oscar Martinez															
P552D10	Respond to recommendations from 3b review	12-Aug-19 A	30-Aug-19 A	12-Aug-19	30-Aug-19	100%	0	\$0	Oscar Martinez															
P552D80c	Evaluation of core vessel target port - Thermal, Structural DAC write up and review (Sept 19 only)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez															
P552D10b	Respond to recommendations from 3b review Continued	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez															
P552D100a	Finalize analysis	30-Oct-19 A	31-Mar-20 A	30-Oct-19	31-Mar-20	100%	0	\$0	Oscar Martinez															
P552D110a	Write DACs	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Oscar Martinez															
P552D125a	Procure ANSYS Mech Pro License	27-Mar-20 A	31-Mar-20 A	27-Mar-20	31-Mar-20	100%	0	\$0	Oscar Martinez															
P552D80d	Evaluation of core vessel target port - Thermal, Structural DAC write up and review (Sept 19 only) continued	01-Apr-20 A	21-May-20 A	01-Apr-20	21-May-20	100%	0	\$0	Oscar Martinez															
P552D10c	Respond to recommendations from 3b review Continued	01-Apr-20 A	30-Apr-20 A	01-Apr-20	30-Apr-20	100%	0	\$0	Oscar Martinez															
P552D100b	Finalize analysis continued	01-Apr-20 A	21-May-20 A	01-Apr-20	21-May-20	100%	0	\$0	Oscar Martinez															
P552D110b	Write DACs continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Oscar Martinez															
P552D120	Update Reports	31-Jul-20 A	30-Sep-20 A	31-Jul-20	30-Sep-20	100%	0	\$0	Oscar Martinez															
P552D125b	Procure ANSYS Mech Pro License continued	01-Sep-20 A	17-Sep-20 A	01-Sep-20	17-Sep-20	100%	0	\$0	Oscar Martinez															
P552D130	Receive ANSYS Mech Pro License	18-Sep-20 A	18-Sep-20 A	18-Sep-20	18-Sep-20	100%	0	\$0	Oscar Martinez															
P.05.06 Target Utility Systems		03-Oct-16 A	25-Sep-23 A	03-Oct-16	25-Sep-23		574	\$3,093,788																
P.05.06.01 Management and System Integration		03-Oct-16 A	25-Sep-23 A	03-Oct-16	25-Sep-23		574	\$91,450																
P.05.06.01.01 Management and System Integration - Target Utility Systems		03-Oct-16 A	25-Sep-23 A	03-Oct-16	25-Sep-23		574	\$91,450																
P561M1	WBS Management P.5.6 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Erica Ahlschwede															
P561M30	WBS Management P.5.6 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Erica Ahlschwede															
P561M6	WBS Management P.5.6 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Erica Ahlschwede															

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
P564D210	Point adjustment for Final Design Review Mol Sieve skid and shielding via PCR TG-2021-08	02-Mar-21 A	03-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$24,397)	Erica Ahlschwede																												
P564D120	Process Controls Design - Review Mol Sieve Instrumentation	02-Mar-21 A	26-Apr-21 A	01-Mar-21	26-Apr-21	100%	0	\$23,019	Erica Ahlschwede																												
P564D200	Final Design Review - Basement Electrical Upgrade	18-Mar-21 A	18-Mar-21 A	19-Mar-21	19-Mar-21	100%	0	\$5,041	Erica Ahlschwede																												
P564D155	Mechanical Design - preliminary seismic calcs	13-Apr-21 A	10-May-21 A	13-Apr-21	10-May-21	100%	0	\$38,761	Erica Ahlschwede																												
P564D145	Finalize Mol Sieve Flow Sheet	20-Apr-21 A	15-Jun-21	20-Apr-21	15-Jun-21	60%	11	\$115,199	Erica Ahlschwede																												
P564D185	Review Source Terms for Regen Gas	27-Apr-21 A	28-May-21 A	27-Apr-21	24-May-21	100%	0	\$21,733	Erica Ahlschwede																												
P564D125	Process Controls Design - Finalize Mol Sieve Instrumentation	27-Apr-21 A	18-Jun-21	27-Apr-21	15-Jun-21	5%	14	\$18,703	Erica Ahlschwede																												
P564D205	Final Design Review - Gas Supply (Gas Panel 10)	13-May-21 A	13-May-21 A	20-May-21	20-May-21	100%	0	\$9,325	Erica Ahlschwede																												
P564D105	Final Design Part 3 - Finalize PPU Gas Supply & Recirculation System	14-May-21 A	17-Jun-21	23-Feb-21	11-Mar-21	80%	13	\$60,517	Erica Ahlschwede																												
P564D165	Mechanical Design - layouts GAR	21-May-21 A	12-Jul-21	21-May-21	12-Jul-21	5%	29	\$42,501	Erica Ahlschwede																												
P564D130	Process Controls Design - Review Gas Recirculation Instrumentation	21-May-21 A	19-Jul-21	16-Jun-21	11-Aug-21	5%	34	\$23,019	Erica Ahlschwede																												
P564D160	Mechanical Design - DACs for seismic calcs	01-Jun-21	24-Jun-21	11-May-21	04-Jun-21	0%	18	\$19,647	Erica Ahlschwede																												
P564D190	Write DAC for Source Term for Regen Gas	01-Jun-21	18-Jun-21	25-May-21	14-Jun-21	0%	14	\$24,397	Erica Ahlschwede																												
P564D80	Prelim Elect. Design for Gas Recirc Loads in GAR, CAR and PCE	18-Jun-21	13-Aug-21	15-Mar-21	10-May-21	0%	40	\$65,292	Erica Ahlschwede																												
P564D195	Equipment Specification For Mol Sieve	13-Jul-21	30-Aug-21	13-Jul-21	30-Aug-21	0%	35	\$54,176	Erica Ahlschwede																												
P564D135	Process Controls Design - Finalize Gas Recirculation Instrumentation	20-Jul-21	03-Sep-21	12-Aug-21	30-Sep-21	0%	34	\$18,703	Erica Ahlschwede																												
P564D85	Final Elect. Design for Gas Recirc Loads in GAR, CAR and PCE	16-Aug-21	13-Sep-21	11-May-21	08-Jun-21	0%	20	\$30,911	Erica Ahlschwede																												
P564D215	Final Design Review Mol Sieve skid and shielding	31-Aug-21	31-Aug-21	31-Aug-21	31-Aug-21	0%	1	\$24,398	Erica Ahlschwede																												
P564D55	Final Design Review Gas Supply & Recirculation System	14-Sep-21	14-Sep-21	01-Oct-21	01-Oct-21	0%	1	\$30,071	Erica Ahlschwede																												
P05.06.04.03 Procure/Fab - Upgrades for Gas Injection		30-Dec-20 A	29-Apr-22	12-Nov-20	03-May-22		226	\$1,086,036																													
P564P31	Procure long lead mechanical components for PPU Gas Injection	30-Dec-20 A	15-Jan-21 A	12-Nov-20	11-Dec-20	100%	0	\$36,597	Erica Ahlschwede																												
P564P55	Fabricate long lead mechanical components for PPU Gas Injection	19-Jan-21 A	18-Jun-21	14-Dec-20	18-May-21	80%	14	\$0	Erica Ahlschwede																												
P564P190	Procure critical spare valve	01-Feb-21 A	02-Feb-21 A	01-Apr-21	05-Apr-21	100%	0	\$369	Erica Ahlschwede																												
P564P195	Fabricate critical spare valve	03-Feb-21 A	09-Mar-21 A	06-Apr-21	28-Jul-21	100%	0	\$0	Erica Ahlschwede																												
P564P115	T&M Sub Procurement of new panel, conduit and cabling - OLD	02-Mar-21 A	03-Mar-21 A	12-Jan-21	23-Feb-21	100%	0	\$74,641	Erica Ahlschwede																												
P564P200	Receive critical spare valve	03-Mar-21 A	26-Mar-21 A	29-Jul-21	29-Jul-21	100%	0	\$1,488	Erica Ahlschwede																												
P564P205	Point adjustment for T&M Sub Procurement via PCR TG-2021-08	03-Mar-21 A	03-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$74,641)	Erica Ahlschwede																												
P564MS58	Fabrication of critical spare valve complete		09-Mar-21 A		28-Jul-21	100%	0	\$0	Erica Ahlschwede																												
P564P210	T&M Sub Procurement of new panel, conduit and cabling	27-Apr-21 A	30-Jun-21	02-Mar-21	13-Apr-21	60%	22	\$74,641	Erica Ahlschwede																												
P564MS007	Fabrication of long lead mechanical components for PPU Gas Injection Complete		18-Jun-21		18-May-21	0%	0	\$0	Erica Ahlschwede																												
P564P65	Receive long lead mechanical components for PPU Gas Injection	21-Jun-21	21-Jun-21	19-May-21	19-May-21	0%	1	\$55,100	Erica Ahlschwede																												
P564P50	Procure balance of electrical components for PPU Gas Injection	15-Sep-21	12-Oct-21	04-Oct-21	29-Oct-21	0%	20	\$13,664	Erica Ahlschwede																												
P564P80	Fabricate balance of electrical components for PPU Gas Injection	13-Oct-21	15-Mar-22	01-Nov-21	01-Apr-22	0%	100	\$0	Erica Ahlschwede																												

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
P564MS009	Fabrication of balance of electrical components for PPU Gas Injection Complete		15-Mar-22		01-Apr-22	0%	0	\$0	Erica Ahlschwede															
P564P85	Receive balance of electrical components for PPU Gas Injection	16-Mar-22	16-Mar-22	04-Apr-22	04-Apr-22	0%	1	\$25,105	Erica Ahlschwede															
P05.06.04.03.01 Procure/Fab - Mol Sieve Skid		01-Jun-21	29-Apr-22	27-Jan-21	29-Apr-22		226	\$429,383																
P564P100	Prepare SOW and Tech Spec for Mol Sieve skids	01-Jun-21	21-Jun-21	27-Jan-21	16-Feb-21	0%	15	\$4,623	Erica Ahlschwede															
P564P125	Procurement Readiness Review (PRR) for Mol Sieve skids	22-Jun-21	28-Jun-21	17-Feb-21	23-Feb-21	0%	5	\$4,807	Erica Ahlschwede															
P564MS011	Technical Package to Procurement for Mol Sieve skids		28-Jun-21		23-Feb-21	0%	0	\$0	Erica Ahlschwede															
P564P130	Procurement Review and Bid for Mol Sieve skids	29-Jun-21	20-Jul-21	24-Feb-21	16-Mar-21	0%	15	\$923	Erica Ahlschwede															
P564MS012	Issue RFP for Mol Sieve skids		20-Jul-21		16-Mar-21	0%	0	\$0	Erica Ahlschwede															
P564P135	Solicitation Period for Mol Sieve skids	01-Sep-21	06-Oct-21	01-Sep-21	06-Oct-21	0%	25	\$21,097	Erica Ahlschwede															
P564MS013	Solicitation complete for Mol Sieve skids		06-Oct-21		06-Oct-21	0%	0	\$0	Erica Ahlschwede															
P564P120	Review and award contract for Mol Sieve skids	07-Oct-21	27-Oct-21	07-Oct-21	27-Oct-21	0%	15	\$963	Erica Ahlschwede															
P564MS13	Award contract for Mol Sieve skids		27-Oct-21		27-Oct-21	0%	0	\$0	Erica Ahlschwede															
P564P105	Fabrication of Mol Sieve skids	28-Oct-21	28-Apr-22	28-Oct-21	28-Apr-22	0%	120	\$0	Erica Ahlschwede															
P564P110	Receipt of mol sieve skid	29-Apr-22	29-Apr-22	29-Apr-22	29-Apr-22	0%	1	\$396,970	Erica Ahlschwede															
P05.06.04.03.02 Procure/Fab - Long Lead Electrical Components		15-Sep-21	16-Mar-22	04-Oct-21	04-Apr-22		121	\$246,121																
P564P140	Prepare SOW and Tech Spec for long lead electrical components for PPU Gas Injection	15-Sep-21	21-Sep-21	04-Oct-21	08-Oct-21	0%	5	\$578	Erica Ahlschwede															
P564P145	Procurement Readiness Review (PRR) for long lead electrical components for PPU Gas Injection	22-Sep-21	28-Sep-21	11-Oct-21	15-Oct-21	0%	5	\$185	Erica Ahlschwede															
P564MS18	Technical Package to Procurement for long lead electrical components for PPU Gas Injection		28-Sep-21		15-Oct-21	0%	0	\$0	Erica Ahlschwede															
P564P150	Procurement Review and Bid for long lead electrical components for PPU Gas Injection	29-Sep-21	12-Oct-21	18-Oct-21	29-Oct-21	0%	10	\$955	Erica Ahlschwede															
P564MS23	Issue RFP for long lead electrical components for PPU Gas Injection		12-Oct-21		29-Oct-21	0%	0	\$0	Erica Ahlschwede															
P564P155	Solicitation Period for long lead electrical components for PPU Gas Injection	13-Oct-21	02-Nov-21	01-Nov-21	19-Nov-21	0%	15	\$15,805	Erica Ahlschwede															
P564MS28	Solicitation complete for long lead electrical components for PPU Gas Injection		02-Nov-21		19-Nov-21	0%	0	\$0	Erica Ahlschwede															
P564P160	Review and award contract for long lead electrical components for PPU Gas Injection	03-Nov-21	09-Nov-21	22-Nov-21	30-Nov-21	0%	5	\$963	Erica Ahlschwede															
P564MS33	Award contract for long lead electrical components for PPU Gas Injection		09-Nov-21		30-Nov-21	0%	0	\$0	Erica Ahlschwede															
P564P70	Fabricate long lead electrical components for PPU Gas Injection	10-Nov-21	15-Mar-22	01-Dec-21	01-Apr-22	0%	80	\$0	Erica Ahlschwede															
P564MS008	Fabrication of long lead electrical components for PPU Gas Injection Complete		15-Mar-22		01-Apr-22	0%	0	\$0	Erica Ahlschwede															
P564P75	Receive long lead electrical components for PPU Gas Injection	16-Mar-22	16-Mar-22	04-Apr-22	04-Apr-22	0%	1	\$227,636	Erica Ahlschwede															
P05.06.04.03.03 Procure/Fab - Balance of Mechanical Components		15-Sep-21	13-Apr-22	04-Oct-21	03-May-22		141	\$203,567																
P564P165	Prepare SOW and Tech Spec for balance of mechanical components for PPU Gas Injection	15-Sep-21	21-Sep-21	04-Oct-21	08-Oct-21	0%	5	\$4,623	Erica Ahlschwede															
P564P170	Procurement Readiness Review (PRR) for balance of mechanical components for PPU Gas Injection	22-Sep-21	28-Sep-21	11-Oct-21	15-Oct-21	0%	5	\$4,807	Erica Ahlschwede															
P564MS38	Technical Package to Procurement for balance of mechanical components for PPU Gas Injection		28-Sep-21		15-Oct-21	0%	0	\$0	Erica Ahlschwede															
P564P175	Procurement Review and Bid for balance of mechanical components for PPU Gas Injection	29-Sep-21	12-Oct-21	18-Oct-21	29-Oct-21	0%	10	\$5,717	Erica Ahlschwede															
P564MS43	Issue RFP for balance of mechanical components for PPU Gas Injection		12-Oct-21		29-Oct-21	0%	0	\$0	Erica Ahlschwede															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P05.07.02.02 Design - Evaluations at 1.3 GeV (Instrument Systems)		22-Jan-19 A	09-Aug-19 A	22-Jan-19	09-Aug-19		0	\$0															
P572D6	Evaluate CVI operating data and compare to updated thermal analysis	22-Jan-19 A	28-Feb-19 A	22-Jan-19	28-Feb-19	100%	0	\$0	Oscar Martinez														
P572D1	Update CVI thermal analysis DAC with PPU beam	01-Feb-19 A	31-Mar-19 A	01-Feb-19	31-Mar-19	100%	0	\$0	Oscar Martinez														
P572D1b	Update CVI thermal analysis DAC with PPU beam Continued	01-Apr-19 A	09-Aug-19 A	01-Apr-19	09-Aug-19	100%	0	\$0	Oscar Martinez														
P572MS001	Setpoint Changes for CVI		09-Aug-19 A		09-Aug-19	100%	0	\$0	Oscar Martinez														
P05.08 MOTS		03-Oct-16 A	12-Mar-24	03-Oct-16	12-Mar-24		686	\$1,748,438															
P05.08.01 Management and System Integration		03-Oct-16 A	11-Mar-24	03-Oct-16	11-Mar-24		685	\$251,333															
P05.08.01.01 Management and System Integration - MOTS		03-Oct-16 A	11-Mar-24	03-Oct-16	11-Mar-24		685	\$251,333															
P581M1	WBS Management P.5.8 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Greg Stephens														
P581M35	WBS Management P.5.8 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Greg Stephens														
P581M6	WBS Management P.5.8 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Greg Stephens														
P581M11	WBS Management P.5.8 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Greg Stephens														
P581M11b	WBS Management P.5.8 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Stephens														
P581M11c	WBS Management P.5.8 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Greg Stephens														
P581M16a	WBS Management P.5.8 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Stephens														
P581M16b	WBS Management P.5.8 FY20 (LOE) Continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Stephens														
P581M21a	WBS Management P.5.8 FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Greg Stephens														
P581M21b	WBS Management P.5.8 FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$48,645	Greg Stephens														
P581M45	WBS Management P.5.8 FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$7,875	Greg Stephens														
P581M40	WBS Management P.5.8 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$71,689	Greg Stephens														
P581M50	WBS Management P.5.8 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$74,405	Greg Stephens														
P58PB1	P.05.08 Extended Outage Pre Beam ARR Documetation Complete	23-Jun-23	29-Jun-23	23-Jun-23	29-Jun-23	0%	5	\$6,053	Greg Stephens														
P58IT2	P.05.08 Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Greg Stephens														
P58DOC2	P.05.08 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$6,053	Greg Stephens														
P581M55	WBS Management P.5.8 FY24 Closeout (LOE)	02-Oct-23	11-Mar-24	02-Oct-23	11-Mar-24	0%	107	\$36,612	Greg Stephens														
P05.08.02 Additional MOTS Delay Bed		27-Apr-17 A	21-Jun-21	27-Apr-17	23-Sep-21		15	\$321,067															
P05.08.02.02 Design - Additional MOTS Delay Bed		27-Apr-17 A	02-Apr-19 A	27-Apr-17	02-Apr-19		0	\$0															
P582D1	Evaluate of MOTS flow margins	27-Apr-17 A	17-May-17 A	27-Apr-17	17-May-17	100%	0	\$0	Greg Stephens														
P582D30	Design Crane for installation of delay bed (Sep)	24-Sep-18 A	28-Sep-18 A	24-Sep-18	28-Sep-18	100%	0	\$0	Greg Stephens														
P582D45	Design Crane for installation of delay bed (Oct through Remain)	01-Oct-18 A	19-Oct-18 A	01-Oct-18	19-Oct-18	100%	0	\$0	Greg Stephens														
P582D40	Design Review for MOTS Delay Bed Crane	24-Oct-18 A	24-Oct-18 A	24-Oct-18	24-Oct-18	100%	0	\$0	Greg Stephens														
P582D21	Design second carbon delay bed	30-Oct-18 A	31-Mar-19 A	30-Oct-18	31-Mar-19	100%	0	\$0	Greg Stephens														
P582D26	Design second carbon delay bed shielding	30-Oct-18 A	31-Oct-18 A	30-Oct-18	31-Oct-18	100%	0	\$0	Greg Stephens														

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
P582D35	Final Design Review for Carbon Delay Bed and Shielding	01-Apr-19 A	02-Apr-19 A	01-Apr-19	02-Apr-19	100%	0	\$0	Greg Stephens																												
P05.08.02.03 Procure/Fab - Additional MOTS Delay Bed		02-Nov-20 A	12-May-21 A	02-Nov-20	25-Aug-21		0	\$258,577																													
P582P51	Procure and receive second carbon delay bed rupture disk and rupture disk holder	01-Dec-20 A	05-Mar-21 A	23-Nov-20	01-Dec-20	100%	0	\$3,684	Greg Stephens																												
P582P86	Procure and receive electrical hardware	01-Dec-20 A	26-Feb-21 A	02-Nov-20	10-Feb-21	100%	0	\$17,699	Greg Stephens																												
P582P91	Procure and receive crane for delay bed installation	01-Feb-21 A	18-Mar-21 A	02-Nov-20	10-Feb-21	100%	0	\$4,751	Greg Stephens																												
P05.08.02.03.02 Vessel and Cartridge		02-Nov-20 A	03-May-21 A	02-Nov-20	25-Aug-21		0	\$128,008																													
P582P41	Procure second carbon delay bed vessel and cartridge	02-Nov-20 A	20-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$579	Greg Stephens																												
P582P46	Fabricate second carbon delay bed vessel and cartridge	23-Nov-20 A	28-Apr-21 A	23-Nov-20	24-Aug-21	100%	0	\$0	Greg Stephens																												
P582MS10	Fabrication of second carbon delay bed vessel and cartridge Complete		03-May-21 A		24-Aug-21	100%	0	\$0	Greg Stephens																												
P582P96	Receive second carbon delay bed vessel and cartridge	03-May-21 A	03-May-21 A	24-Aug-21	25-Aug-21	100%	0	\$127,429	Greg Stephens																												
P05.08.02.03.01 Shielding		02-Nov-20 A	12-May-21 A	02-Nov-20	24-Aug-21		0	\$104,435																													
P582P61	Procure Shielding	02-Nov-20 A	20-Nov-20 A	02-Nov-20	20-Nov-20	100%	0	\$579	Greg Stephens																												
P582P66	Fabricate Shielding	23-Nov-20 A	11-May-21 A	23-Nov-20	23-Aug-21	100%	0	\$0	Greg Stephens																												
P582MS05	Fabrication of Shielding Complete		11-May-21 A		23-Aug-21	100%	0	\$0	Greg Stephens																												
P582P101	Receive Shielding	12-May-21 A	12-May-21 A	24-Aug-21	24-Aug-21	100%	0	\$103,855	Greg Stephens																												
P05.08.02.04 Installation - Additional MOTS Delay Bed		01-Apr-21 A	21-Jun-21	01-Jun-21	23-Sep-21		15	\$62,490																													
P582111	Documentation and Training - Drawings	01-Apr-21 A	21-May-21 A	01-Sep-21	23-Sep-21	100%	0	\$1,403	Greg Stephens																												
P582116	Documentation and Training - Training Modules	11-May-21 A	31-May-21 A	01-Sep-21	23-Sep-21	100%	0	\$1,403	Greg Stephens																												
P582196	Dry carbon of second carbon delay bed	11-May-21 A	17-May-21 A	01-Sep-21	09-Sep-21	100%	0	\$10,082	Greg Stephens																												
P58216	Documentation and Training - Procedures	11-May-21 A	21-Jun-21	01-Sep-21	23-Sep-21	75%	15	\$10,577	Greg Stephens																												
P582191	Install second carbon delay bed	01-Jun-21*	07-Jun-21	25-Aug-21	01-Sep-21	0%	5	\$14,993	Greg Stephens																												
P5821100	Install Crane for installation of delay bed	08-Jun-21	09-Jun-21	01-Jun-21	02-Jun-21	0%	2	\$14,961	Greg Stephens																												
P5821101	Install shielding	10-Jun-21	16-Jun-21	09-Sep-21	16-Sep-21	0%	5	\$9,071	Greg Stephens																												
P5824IMS001	P.05.08.02.04_ Installation Complete		16-Jun-21		16-Sep-21	0%	0	\$0	Greg Stephens																												
P5824IMS006	P.05.08.02.04_Operational procedures updated for Additional MOTS Delay Bed		21-Jun-21		23-Sep-21	0%	0	\$0	Greg Stephens																												
P05.08.03 MOTS Upgrades for Gas Injection		01-Oct-18 A	22-Jun-23	01-Oct-18	22-Jun-23		510	\$843,998																													
P05.08.03.02 Design - MOTS Upgrades for Gas Injection		01-Oct-18 A	20-Jul-21	01-Oct-18	11-Aug-21		35	\$255,846																													
P583D1	MOTS evaluations part 1 (once-through helium flow 20 slpm)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Greg Stephens																												
P583D1b	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Stephens																												
P583D11	Preliminary Design of Mol Sieve Beds & Shielding	22-Apr-19 A	27-Aug-19 A	22-Apr-19	27-Aug-19	100%	0	\$0	Greg Stephens																												
P583D16	Preliminary Design Review of Mol Sieve Beds & Shielding	28-Aug-19 A	28-Aug-19 A	28-Aug-19	28-Aug-19	100%	0	\$0	Greg Stephens																												
P583D21	Inter. Design of Mol Sieve Beds & Shielding	03-Sep-19 A	15-Jan-20 A	03-Sep-19	15-Jan-20	100%	0	\$0	Greg Stephens																												
P583D1c	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued (beam on testing)	03-Sep-19 A	03-Feb-20 A	03-Sep-19	03-Feb-20	100%	0	\$0	Greg Stephens																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029				
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P583D40a	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications)	15-Jan-20 A	31-Mar-20 A	15-Jan-20	31-Mar-20	0%	0	\$0	Greg Stephens																		
P583D6a	MOTS evaluations part 2 (source term calculations)	04-Feb-20 A	31-Mar-20 A	04-Feb-20	31-Mar-20	100%	0	\$0	Greg Stephens																		
P583D40b	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications) continued	01-Apr-20 A	20-Aug-20 A	01-Apr-20	20-Aug-20	0%	0	\$0	Greg Stephens																		
P583D6b	MOTS evaluations part 2 (source term calculations) continued	01-Apr-20 A	31-Aug-20 A	01-Apr-20	31-Aug-20	100%	0	\$0	Greg Stephens																		
P583D45	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued (tritium sample)	07-Apr-20 A	30-Apr-20 A	07-Apr-20	30-Apr-20	100%	0	\$0	Greg Stephens																		
P583D85	MOTS evaluations part 1 (once-through helium flow 20 slpm) Continued (tritium analysis)	01-May-20 A	29-May-20 A	01-May-20	29-May-20	100%	0	\$0	Greg Stephens																		
P583D50	MOTS evaluations part 2 (molecular sieve shielding calculations)	18-May-20 A	31-Aug-20 A	18-May-20	31-Aug-20	100%	0	\$0	Greg Stephens																		
P583MS001	MOTS evaluations part 1 (once-through helium flow 20 slpm) complete		29-May-20 A		29-May-20	100%	0	\$0	Greg Stephens																		
P583MS005	CuO Reactor Shielding Design Confirmed		15-Jun-20 A		15-Jun-20	100%	0	\$0	Greg Stephens																		
P583D30	Inter. Design of Mol Sieve Beds & Shielding Continued (IDR preparation)	01-Sep-20 A	12-Oct-20 A	01-Sep-20	12-Oct-20	100%	0	\$0	Greg Stephens																		
P583D35a	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications analysis)	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Greg Stephens																		
P583D26	Inter. Design Review of Mol Sieve Beds & Shielding	02-Nov-20 A	02-Nov-20 A	02-Nov-20	02-Nov-20	100%	0	\$904	Greg Stephens																		
P583D35b	Inter. Design of Mol Sieve Beds & Shielding Continued (design modifications analysis) Continued	02-Nov-20 A	09-Nov-20 A	02-Nov-20	09-Nov-20	100%	0	\$10,623	Greg Stephens																		
P583D55	Complete Equipment Specification for Mol Sieve Bed Skids - OLD	03-Nov-20 A	01-Mar-21 A	03-Nov-20	02-Dec-20	100%	0	\$5,698	Greg Stephens																		
P583D65	Final Mech Design Mol Sieve skid and shielding - OLD	03-Nov-20 A	01-Mar-21 A	03-Nov-20	02-Dec-20	100%	0	\$14,261	Greg Stephens																		
P583D70	Final Mech Design MOTS upgrades - OLD	02-Dec-20 A	01-Mar-21 A	03-Dec-20	13-Jan-21	100%	0	\$22,637	Greg Stephens																		
P583D60	Electrical Design - MOTS & Mol Sieve Upgrades - OLD	02-Mar-21 A	02-Mar-21 A	03-Dec-20	13-Jan-21	100%	0	\$4,758	Greg Stephens																		
P583D90	Adjustment activity for P583D70 via TG-2021-08 - Final Mech Design MOTS upgrades	02-Mar-21 A	02-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$14,303)	Greg Stephens																		
P583D105	Adjustment activity for P583D55 via TG-2021-08 - Complete Equipment Specification for Mol Sieve Bed Skids	02-Mar-21 A	02-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$2,900)	Greg Stephens																		
P583D110	Adjustment activity for P583D65 via TG-2021-08 - Final Mech Design Mol Sieve skid and shielding	02-Mar-21 A	02-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$9,292)	Greg Stephens																		
P583D75	Final Design Review Mol Sieve skid and shielding - OLD	03-Mar-21 A	03-Mar-21 A	14-Jan-21	14-Jan-21	100%	0	\$3,451	Greg Stephens																		
P583D80	Final Design Review MOTS Upgrades - OLD	03-Mar-21 A	03-Mar-21 A	14-Jan-21	14-Jan-21	100%	0	\$3,451	Greg Stephens																		
P583D115	Adjustment activity for P583D60 via TG-2021-08 - Electrical Design - MOTS & Mol Sieve Upgrades	03-Mar-21 A	03-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$4,871)	Greg Stephens																		
P583D95	Adjustment activity for P583D75 via TG-2021-08 - Final Design Review Mol Sieve skid and shielding	04-Mar-21 A	04-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$3,451)	Greg Stephens																		
P583D100	Adjustment activity for P583D80 via TG-2021-08 - Final Design Review MOTS Upgrades	04-Mar-21 A	04-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	(\$3,451)	Greg Stephens																		
P583D120	Mech Design MOTS Upgrades-Additional design for CuO relocation	01-Apr-21 A	22-Jun-21	02-Mar-21	20-May-21	30%	16	\$47,359	Greg Stephens																		
P583D125	Electrical Design MOTS Upgrades- Additional design for CuO relocation	01-Apr-21 A	22-Jun-21	02-Mar-21	20-May-21	30%	16	\$15,599	Greg Stephens																		
P583D130	Mech Design MOTS Upgrades-Additional design for Glovebox removal	01-Apr-21 A	22-Jun-21	02-Mar-21	20-May-21	50%	16	\$62,971	Greg Stephens																		
P583D140	Mechanical Design - preliminary seismic calcs	13-Apr-21 A	28-May-21 A	02-Mar-21	10-May-21	100%	0	\$21,723	Greg Stephens																		
P583D135	Mechanical Design-MOTS Room Valve Panel	20-Apr-21 A	02-Jun-21	20-Apr-21	20-May-21	20%	2	\$37,672	Greg Stephens																		
P583D150	Mechanical Design - layouts MOTS Room	28-May-21 A	20-Jul-21	21-May-21	11-Aug-21	5%	35	\$23,362	Greg Stephens																		
P583D145	Mechanical Design - DACs for seismic calcs	01-Jun-21	24-Jun-21	11-May-21	04-Jun-21	0%	18	\$19,647	Greg Stephens																		
P05.08.03.03	Procure/Fab - MOTS Upgrades for Gas Injection	01-Apr-21 A	14-Apr-22	15-Jan-21	29-Apr-22		216	\$450,786																			

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
P583P11	Procure MOTS hardware	01-Apr-21 A	21-May-21 A	15-Jan-21	05-Feb-21	100%	0	\$462	Greg Stephens															
P583P16	Fabricate MOTS hardware	24-May-21 A	11-Oct-21	08-Feb-21	29-Jun-21	90%	95	\$0	Greg Stephens															
P583P140	Prepare SOW and Tech Spec for Mol Sieve skids	01-Jun-21	21-Jun-21	15-Jan-21	05-Feb-21	0%	15	\$5,612	Greg Stephens															
P583P145	Procurement Readiness Review (PRR) for Mol Sieve skids	22-Jun-21	28-Jun-21	08-Feb-21	12-Feb-21	0%	5	\$185	Greg Stephens															
P583MS010	Technical Package to Procurement for Mol Sieve skids		28-Jun-21		12-Feb-21	0%	0	\$0	Greg Stephens															
P583P150	Procurement Review and Bid for Mol Sieve skids	29-Jun-21	20-Jul-21	15-Feb-21	05-Mar-21	0%	15	\$923	Greg Stephens															
P583MS011	Issue RFP for Mol Sieve skids		20-Jul-21		05-Mar-21	0%	0	\$0	Greg Stephens															
P583P155	Solicitation Period for Mol Sieve skids	01-Sep-21	06-Oct-21	01-Sep-21	06-Oct-21	0%	25	\$2,231	Greg Stephens															
P583MS012	Solicitation complete for Mol Sieve skids		06-Oct-21		06-Oct-21	0%	0	\$0	Greg Stephens															
P583P160	Review and award contract for Mol Sieve skids	07-Oct-21	27-Oct-21	07-Oct-21	27-Oct-21	0%	15	\$963	Greg Stephens															
P583MS15	Fabrication of MOTS hardware Complete		11-Oct-21		29-Jun-21	0%	0	\$0	Greg Stephens															
P583P21	Receive MOTS hardware	12-Oct-21	12-Oct-21	30-Jun-21	30-Jun-21	0%	1	\$43,441	Greg Stephens															
P584MS013	Award contract for Mol Sieve skids		27-Oct-21		27-Oct-21	0%	0	\$0	Greg Stephens															
P583P165	Fabrication of Mol Sieve skids	28-Oct-21	13-Apr-22	28-Oct-21	28-Apr-22	0%	120	\$0	Greg Stephens															
P583P170	Receipt of mol sieve skid	14-Apr-22	14-Apr-22	29-Apr-22	29-Apr-22	0%	1	\$396,970	Greg Stephens															
P05.08.03.04 Installation - MOTS Upgrades for Gas Injection		01-Feb-23	22-Jun-23	01-Feb-23	22-Jun-23		100	\$137,366																
P583I25	Remove existing MOTS glovebox/hardware	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	7	\$19,059	Greg Stephens															
P583I40	Relocate CuO Reactors- Mechanical	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	7	\$9,530	Greg Stephens															
P583I45	Relocate CuO Reactors- Electrical	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	7	\$9,530	Greg Stephens															
P583I21	Install MOTS hardware	08-Feb-23	04-Mar-23	08-Feb-23	04-Mar-23	0%	25	\$20,447	Greg Stephens															
P583I30	Install mol sieve bed skid	08-Feb-23	04-Mar-23	08-Feb-23	04-Mar-23	0%	25	\$38,988	Greg Stephens															
P5834IMS001	P.05.08.03.04_Installation Complete		04-Mar-23		04-Mar-23	0%	0	\$0	Greg Stephens															
P5834IMS006	P.05.08.03.04_Operational procedures updated for MOTS Upgrades for Gas Injection		06-Mar-23		06-Mar-23	0%	0	\$0	Greg Stephens															
P583I35	P.05.08.03 Test and checkout	13-Jun-23	22-Jun-23	13-Jun-23	22-Jun-23	0%	10	\$39,814	Greg Stephens															
P05.08.04 MOTS Cold Trap and Shielding		01-Oct-18 A	12-Mar-24	01-Oct-18	12-Mar-24		686	\$332,041																
P05.08.04.02 Design - MOTS Cold Trap and Shielding		01-Oct-18 A	15-Jan-21 A	01-Oct-18	15-Jan-21		0	\$38,716																
P584D005	Cold Trap and shield housing - Preliminary Design	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Greg Stephens															
P584D20	Cold Trap and shield housing - Preliminary Design Continued	01-Apr-19 A	27-Aug-19 A	01-Apr-19	27-Aug-19	100%	0	\$0	Greg Stephens															
P584MS001	Cold Trap and shield housing - Preliminary Design Complete		27-Aug-19 A		27-Aug-19	100%	0	\$0	Greg Stephens															
P584D015	Cold Trap and shield housing - Preliminary Design Review	28-Aug-19 A	28-Aug-19 A	28-Aug-19	28-Aug-19	100%	0	\$0	Greg Stephens															
P584D010	Cold Trap and shield housing - Final Component Design (thermal analysis)	03-Sep-19 A	22-Nov-19 A	03-Sep-19	22-Nov-19	100%	0	\$0	Greg Stephens															
P584D045a	Cold Trap and shield housing - Final Component Design (design modifications)	25-Nov-19 A	31-Mar-20 A	25-Nov-19	31-Mar-20	100%	0	\$0	Greg Stephens															
P584D045b	Cold Trap and shield housing - Final Component Design (design modifications) continued	01-Apr-20 A	29-Sep-20 A	01-Apr-20	29-Sep-20	100%	0	\$0	Greg Stephens															

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
P584D050a	Cold Trap and shield housing - Final Component Design (design modifications analysis)	31-Aug-20 A	30-Oct-20 A	31-Aug-20	30-Oct-20	100%	0	\$0	Greg Stephens															
P584D025a	Cold Trap and shield housing - Final Mechanical Design	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Greg Stephens															
P584D030a	Cold Trap and shield housing - Final Hoist Design	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Greg Stephens															
P584D035a	Cold Trap and shield housing - Final Electrical Design	07-Oct-20 A	30-Oct-20 A	07-Oct-20	30-Oct-20	100%	0	\$0	Greg Stephens															
P584D050b	Cold Trap and shield housing - Final Component Design (design modifications analysis) Continued	02-Nov-20 A	05-Nov-20 A	02-Nov-20	05-Nov-20	100%	0	\$536	Greg Stephens															
P584D025b	Cold Trap and shield housing - Final Mechanical Design Continued	02-Nov-20 A	14-Jan-21 A	02-Nov-20	14-Jan-21	100%	0	\$24,890	Greg Stephens															
P584D030b	Cold Trap and shield housing - Final Hoist Design Continued	02-Nov-20 A	24-Dec-20 A	02-Nov-20	14-Jan-21	100%	0	\$1,805	Greg Stephens															
P584D035b	Cold Trap and shield housing - Final Electrical Design Continued	02-Nov-20 A	14-Jan-21 A	02-Nov-20	14-Jan-21	100%	0	\$4,874	Greg Stephens															
P584D040	Final Hoist Design Review	04-Jan-21 A	04-Jan-21 A	15-Jan-21	15-Jan-21	100%	0	\$3,305	Greg Stephens															
P584D020	Cold Trap and shield housing - Final Design Review	15-Jan-21 A	15-Jan-21 A	15-Jan-21	15-Jan-21	100%	0	\$3,305	Greg Stephens															
P05.08.04.03 Procure/Fab - MOTS Cold Trap and Shielding		19-Jan-21 A	10-Sep-21	19-Jan-21	17-Jun-21		72	\$227,310																
P584P005	Procure Designed Cold Trap and shield housing components & Hoist	19-Jan-21 A	03-May-21 A	19-Jan-21	08-Feb-21	100%	0	\$476	Greg Stephens															
P584P010	Procure and receive electrical hardware	18-Feb-21 A	18-Aug-21	19-Jan-21	13-Apr-21	50%	56	\$30,980	Greg Stephens															
P584P015	Fabricate Designed Cold Trap and shield housing components	04-May-21 A	08-Sep-21	09-Feb-21	16-Jun-21	10%	70	\$0	Greg Stephens															
P584P020	Fabricate Second Cold Trap Subassembly	04-May-21 A	09-Sep-21	01-Apr-21	16-Jun-21	10%	71	\$0	Greg Stephens															
P582MS15	Fabrication of Designed Cold Trap and shield housing components Complete		08-Sep-21		16-Jun-21	0%	0	\$0	Greg Stephens															
P584P15	Receive Designed Cold Trap and shield housing components & Hoist	09-Sep-21	09-Sep-21	17-Jun-21	17-Jun-21	0%	1	\$111,980	Greg Stephens															
P582MS20	Fabrication of Second Cold Trap Subassembly Complete		09-Sep-21		16-Jun-21	0%	0	\$0	Greg Stephens															
P584P25	Receive Second Cold Trap Subassembly	10-Sep-21	10-Sep-21	17-Jun-21	17-Jun-21	0%	1	\$83,874	Greg Stephens															
P05.08.04.04 Install - MOTS Cold Trap and Shielding		24-Feb-21 A	12-Mar-24	15-Jan-21	12-Mar-24		585	\$66,015																
P584I025	Install Hoist	24-Feb-21 A	23-Mar-21 A	15-Jan-21	19-Jan-21	100%	0	\$11,759	Greg Stephens															
P584I005	Install Helium-cooled cold trap	22-Oct-21	28-Oct-21	22-Oct-21	28-Oct-21	0%	5	\$11,617	Greg Stephens															
P584I030	Install MOTS room electrical	29-Oct-21	18-Nov-21	29-Oct-21	18-Nov-21	0%	15	\$9,294	Greg Stephens															
P5843IMS02	P.05.08.03.04_MOTS Cold Trap Installation Complete		18-Nov-21		18-Nov-21	0%	0	\$0	Greg Stephens															
P584I020	Documentation and Training - Training Modules	19-Nov-21	13-Dec-21	19-Nov-21	13-Dec-21	0%	15	\$1,457	Greg Stephens															
P584I010	Documentation and Training - Procedures	19-Nov-21	13-Dec-21	19-Nov-21	13-Dec-21	0%	15	\$7,497	Greg Stephens															
P584I015	Documentation and Training - Drawings	19-Nov-21	13-Dec-21	19-Nov-21	13-Dec-21	0%	15	\$2,914	Greg Stephens															
P584I30	P.05.08.04.04 Test and Checkout of MOTS Cold Trap	19-Nov-21	06-Dec-21	19-Nov-21	06-Dec-21	0%	10	\$15,384	Greg Stephens															
P5843IMS01	P.05.08.03.04_Operational procedures updated for MOTS Cold Trap		13-Dec-21		13-Dec-21	0%	0	\$0	Greg Stephens															
P584I035	Install Second Cold Trap Subassembly	01-Feb-23	01-Feb-23	11-Mar-24	11-Mar-24	0%	1	\$3,812	Greg Stephens															
P584I040	P.05.08.04.04 Test and Checkout of Second Cold Trap Subassembly	12-Mar-24	12-Mar-24	12-Mar-24	12-Mar-24	0%	1	\$2,282	Greg Stephens															
P.05.09 2 MW Target		03-Oct-16 A	26-Mar-24	03-Oct-16	26-Mar-24		696	\$11,526,893																
P59MS001	Final design review of 2MW capable target module completed		24-Jul-20 A		24-Jul-20	100%	0	\$0	Drew Winder															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P.05.09.01 Management and System Integration		03-Oct-16 A	26-Mar-24	03-Oct-16	26-Mar-24		696	\$1,492,770															
P.05.09.01.01 Management and System Integration - 2 MW Target		03-Oct-16 A	26-Mar-24	03-Oct-16	26-Mar-24		696	\$1,492,770															
P591M1	WBS Management P.5.9 FY17 (LOE)	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Drew Winder		■												
P591M35	WBS Management P.5.9 FY18 (Oct through Apr) (LOE)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Drew Winder			■											
P591M40	Evaluate candidates for mechanical design engineer position	05-Apr-18 A	31-May-18 A	05-Apr-18	31-May-18	100%	0	\$0	Drew Winder			■											
P591M6	WBS Management P.5.9 FY18 (May through Sep) (LOE)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Drew Winder			■											
P591MS001	Hire mechanical design engineer for target module		01-Jun-18 A		01-Jun-18	100%	0	\$0	Drew Winder			■											
P591M11	WBS Management P.5.9 FY19 (LOE)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Drew Winder				■										
P591M11b	WBS Management P.5.9 FY19 (LOE) Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Drew Winder				■										
P591M11c	WBS Management P.5.9 FY19 (LOE) (Sept 19 only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Drew Winder					■									
P591M16a	WBS Management P.5.9 FY20 (LOE)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Drew Winder					■									
P591M16b	WBS Management P.5.9 FY20 (LOE) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Drew Winder						■								
P591M21a	WBS Management P.5.9 FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder							■							
P591M96a	Oversight during target module fabrication FY21 (LOE)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder								■						
P591M21b	WBS Management P.5.9 FY21 (LOE)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$31,315	Drew Winder														
P591M96b	Oversight during target module fabrication FY21 (LOE) Continued	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$394,046	Drew Winder														
P591M120	WBS Management P.5.9 FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$9,975	Drew Winder														
P591M125	Oversight during target module fabrication FY21 Travel	01-Sep-21*	30-Sep-21	01-Sep-21	30-Sep-21	0%	21	\$100,800	Drew Winder														
P591M26	WBS Management P.5.9 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$45,791	Drew Winder														
P591M106	Oversight during target module fabrication FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$773,360	Drew Winder														
P59IT1	P.05.09 Integrated Systems Testing Phase 1 Complete		19-Sep-22		16-Aug-22	0%	0	\$0	Drew Winder														
P59DOC1	P.05.09 Documentation for IRR/ERR Phase 1 Complete	20-Sep-22	26-Sep-22	17-Aug-22	23-Aug-22	0%	5	\$12,308	Drew Winder														
P591M31	WBS Management P.5.9 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$47,470	Drew Winder														
P591M116	Oversight during target module fabrication FY23 (LOE)	03-Oct-22	07-Oct-22	03-Oct-22	07-Oct-22	0%	5	\$11,880	Drew Winder														
P59PB1	P.05.09 Extended Outage Pre Beam ARR Documetation Complete	15-Jun-23	21-Jun-23	15-Jun-23	21-Jun-23	0%	5	\$12,786	Drew Winder														
P59IT2	P.05.09 Integrated Systems Testing Phase 2A Complete		18-Sep-23		18-Sep-23	0%	0	\$0	Drew Winder														
P59DOC2	P.05.09 Documentation for ARR Phase 2A Complete	19-Sep-23	25-Sep-23	19-Sep-23	25-Sep-23	0%	5	\$12,786	Drew Winder														
P591M36	WBS Management P.5.9 FY24 (LOE)	02-Oct-23	18-Mar-24	02-Oct-23	18-Mar-24	0%	112	\$26,971	Drew Winder														
P59IT3	P.05.09 Integrated Systems Testing Phase 3 Complete		19-Mar-24		19-Mar-24	0%	0	\$0	Drew Winder														
P59DOC3	P.05.09 Documentation for IRR/ERR Phase 3 Complete	20-Mar-24	26-Mar-24	20-Mar-24	26-Mar-24	0%	5	\$13,283	Drew Winder														
P.05.09.02 Target Module		16-May-18 A	19-Mar-24	16-May-18	19-Mar-24		691	\$6,156,208															
P.05.09.02.01 Mercury Vessel (MV)		16-May-18 A	05-Aug-22	16-May-18	05-Aug-22		0	\$298,480															
P5921MS006	Contract for 2MW target awarded		30-Oct-20 A		30-Oct-20	100%	0	\$0	Drew Winder						■								

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029								
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5921MS016	Target Module Received (T1)		05-Aug-22		05-Aug-22	0%	0	\$0	Drew Winder																						
P05.09.02.01.02 Design - Mercury Vessel (MV)		16-May-18 A	26-Feb-21 A	16-May-18	02-Dec-20		0	\$298,480																							
P5921D111	Target Design Exploration	16-May-18 A	24-Sep-18 A	16-May-18	24-Sep-18	100%	0	\$0	Drew Winder																						
P5921D125	ABAQUS License Tokens for Optimization in support of design (21 simulation tokens, 2 CAE tokens)-FY18	01-Jun-18 A	01-Jun-18 A	01-Jun-18	01-Jun-18	100%	0	\$0	Drew Winder																						
P5921D150	HPC license in support of design - 3 year lease	01-Jun-18 A	29-Jun-18 A	01-Jun-18	29-Jun-18	100%	0	\$0	Drew Winder																						
P5921D90	Award contract and receive Oz2 upgrade in support of design- FY18	24-Jul-18 A	31-Jul-18 A	24-Jul-18	31-Jul-18	100%	0	\$0	Drew Winder																						
P5921MS001	Engineering analysis compute server upgrades installed and operational		31-Jul-18 A		31-Jul-18	100%	0	\$0	Drew Winder																						
P5921D1	Target Module Design Specification Revision (Sep)	25-Sep-18 A	28-Sep-18 A	25-Sep-18	28-Sep-18	100%	0	\$0	Drew Winder																						
P5921D26	MV Preliminary Design (Sep)	25-Sep-18 A	28-Sep-18 A	25-Sep-18	28-Sep-18	100%	0	\$0	Drew Winder																						
P5921D185	Target Module Design Specification Revision (Oct through Remain)	01-Oct-18 A	01-Feb-19 A	01-Oct-18	01-Feb-19	100%	0	\$0	Drew Winder																						
P5921D190	MV Preliminary Design (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Drew Winder																						
P5921D85	ABAQUS License Tokens for Optimization in support of design (21 simulation tokens, 2 CAE tokens)-FY19	01-Oct-18 A	30-Oct-18 A	01-Oct-18	30-Oct-18	100%	0	\$0	Drew Winder																						
P5921D170	Design Test Fabrication Articles	14-Jan-19 A	31-Mar-19 A	14-Jan-19	31-Mar-19	100%	0	\$0	Drew Winder																						
P5921D190b	MV Preliminary Design Continued	01-Apr-19 A	18-Apr-19 A	01-Apr-19	18-Apr-19	100%	0	\$0	Drew Winder																						
P5921D170b	Design Test Fabrication Articles Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Drew Winder																						
P5921D36	MV Preliminary Design Review	24-Apr-19 A	24-Apr-19 A	24-Apr-19	24-Apr-19	100%	0	\$0	Drew Winder																						
P5921MS002	Complete Mercury Vessel - Preliminary Design Review Meeting		24-Apr-19 A		24-Apr-19	100%	0	\$0	Drew Winder																						
P5921D41	MV Final Design 1 - Design Modifications	08-May-19 A	31-Jul-19 A	08-May-19	31-Jul-19	100%	0	\$0	Drew Winder																						
P5921D100	Solicit bids and award contract for Test Fabrication Articles	16-Jul-19 A	30-Aug-19 A	16-Jul-19	30-Aug-19	100%	0	\$0	Drew Winder																						
P5921D195	MV Final Design 1 - Design Modification Analysis	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Drew Winder																						
P5921D170c	Design Test Fabrication Articles Continued (Sept 19 only)	03-Sep-19 A	12-Nov-19 A	03-Sep-19	12-Nov-19	100%	0	\$0	Drew Winder																						
P5921D100b	Solicit bids and award contract for Test Fabrication Articles (Sept 19 only)	03-Sep-19 A	12-Nov-19 A	03-Sep-19	12-Nov-19	100%	0	\$0	Drew Winder																						
P5921D195b	MV Final Design 1 - Finalize Design / IDR Prep	03-Sep-19 A	17-Feb-20 A	03-Sep-19	17-Feb-20	100%	0	\$0	Drew Winder																						
P5921D105a	Fabricate Test Fabrication Articles	13-Nov-19 A	31-Mar-20 A	13-Nov-19	31-Mar-20	100%	0	\$0	Drew Winder																						
P5921D51	MV Final Design Part 1 Review (intermediate)	18-Feb-20 A	18-Feb-20 A	18-Feb-20	18-Feb-20	100%	0	\$0	Drew Winder																						
P5921D180	MV Manufacturability Review	18-Feb-20 A	28-Feb-20 A	18-Feb-20	28-Feb-20	100%	0	\$0	Drew Winder																						
P5921D240	MV Final Design Part 1 Review (intermediate)	18-Feb-20 A	18-Feb-20 A	18-Feb-20	18-Feb-20	100%	0	\$0	Drew Winder																						
P5921D205a	MV Final Design 2 - DAC / DWG	19-Feb-20 A	31-Mar-20 A	19-Feb-20	31-Mar-20	100%	0	\$0	Drew Winder																						
P5921D95	ABAQUS License Tokens for Optimization in support of design (21 simulation tokens, 2 CAE tokens)-FY20	02-Mar-20 A	02-Mar-20 A	02-Mar-20	02-Mar-20	100%	0	\$0	Drew Winder																						
P5921D235	ABAQUS Extended Tokens	02-Mar-20 A	02-Mar-20 A	02-Mar-20	02-Mar-20	100%	0	\$0	Drew Winder																						
P5921D105b	Fabricate Test Fabrication Articles continued	01-Apr-20 A	25-Jul-20 A	01-Apr-20	25-Jul-20	100%	0	\$0	Drew Winder																						
P5921D205b	MV Final Design 2 - DAC / DWG continued	01-Apr-20 A	29-Apr-20 A	01-Apr-20	29-Apr-20	100%	0	\$0	Drew Winder																						
P5921D175	Target Module Design Specification Final	20-Apr-20 A	08-May-20 A	20-Apr-20	08-May-20	100%	0	\$0	Drew Winder																						

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5921D210	MV Final Design 2 - DAC / DWG Check, FDR Prep	29-Apr-20 A	22-Jul-20 A	29-Apr-20	22-Jul-20	100%	0	\$0	Drew Winder															
P5921D66	MV Final Design Part 2 Review	23-Jun-20 A	24-Jun-20 A	23-Jun-20	24-Jun-20	100%	0	\$0	Drew Winder															
P5921D80	Test Fabrication Articles	01-Jul-20 A	06-Jul-20 A	01-Jul-20	06-Jul-20	100%	0	\$0	Drew Winder															
P5921D71	Target Module Design Change Notice	02-Jul-20 A	07-Jul-20 A	02-Jul-20	07-Jul-20	100%	0	\$0	Drew Winder															
P5921MS115	Fabrication of Test Fabrication Articles Complete		15-Jul-20 A		15-Jul-20	100%	0	\$0	Drew Winder															
P5921D76	MV Design Closeout	03-Aug-20 A	10-Aug-20 A	03-Aug-20	10-Aug-20	100%	0	\$0	Drew Winder															
P5921D120	ABAQUS License Tokens for Optimization in support of design (21 simulation tokens, 2 CAE tokens)- FY21	15-Aug-20 A	01-Sep-20 A	15-Aug-20	01-Sep-20	100%	0	\$0	Drew Winder															
P05.09.02.01.02.01 Front Body Development		15-Apr-20 A	26-Feb-21 A	15-Apr-20	02-Dec-20		0	\$298,480																
P5921D250	Prepare SOW and Tech Spec for PPU Front Body Development Test Article	15-Apr-20 A	04-May-20 A	15-Apr-20	04-May-20	100%	0	\$0	Drew Winder															
P5921D255	Procurement Readiness Review (PRR) for PPU Front Body Development Test Article	05-May-20 A	05-May-20 A	05-May-20	05-May-20	100%	0	\$0	Drew Winder															
P5921MS120	Technical Package to Procurement for PPU Front Body Development Test Article		05-May-20 A		05-May-20	100%	0	\$0	Drew Winder															
P5921D260	Procurement Review and Bid for PPU Front Body Development Test Article	06-May-20 A	12-May-20 A	06-May-20	12-May-20	100%	0	\$0	Drew Winder															
P5921MS125	Issue RFP for PPU Front Body Development Test Article		12-May-20 A		12-May-20	100%	0	\$0	Drew Winder															
P5921D265	Solicitation Period for PPU Front Body Development Test Article	13-May-20 A	19-May-20 A	13-May-20	19-May-20	100%	0	\$0	Drew Winder															
P5921MS130	Solicitation Complete for PPU Front Body Development Test Article		19-May-20 A		19-May-20	100%	0	\$0	Drew Winder															
P5921D270	Review and Award Contract for PPU Front Body Development Test Article	20-May-20 A	21-May-20 A	20-May-20	21-May-20	100%	0	\$0	Drew Winder															
P5921MS135	Award Contract for PPU Front Body Development Test Article		21-May-20 A		21-May-20	100%	0	\$0	Drew Winder															
P5921D245	Fabricate PPU Front Body Development Test Article	22-May-20 A	26-Feb-21 A	22-May-20	01-Dec-20	100%	0	\$0	Drew Winder															
P5921D275	Receive PPU Front Body Development Test Article	26-Feb-21 A	26-Feb-21 A	02-Dec-20	02-Dec-20	100%	0	\$298,480	Drew Winder															
P5921MS140	Fabrication of PPU Front Body Development Test Article Complete		26-Feb-21 A		01-Dec-20	100%	0	\$0	Drew Winder															
P05.09.02.02 Bolt on Shroud (BOS)		25-Sep-18 A	10-Aug-20 A	25-Sep-18	10-Aug-20		0	\$0																
P05.09.02.02.02 Design -Bolt on Shroud (BOS)		25-Sep-18 A	10-Aug-20 A	25-Sep-18	10-Aug-20		0	\$0																
P5922D1	BOS Preliminary Design (Sep)	25-Sep-18 A	28-Sep-18 A	25-Sep-18	28-Sep-18	100%	0	\$0	Drew Winder															
P5922D85	BOS Preliminary Design (Oct through Remain)	01-Oct-18 A	31-Mar-19 A	01-Oct-18	31-Mar-19	100%	0	\$0	Drew Winder															
P5922D85b	BOS Preliminary Design Continued	01-Apr-19 A	18-Apr-19 A	01-Apr-19	18-Apr-19	100%	0	\$0	Drew Winder															
P5922MS001	BOS Preliminary Design Review Complete		24-Apr-19 A		24-Apr-19	100%	0	\$0	Drew Winder															
P5922D11	BOS Preliminary Design Review	24-Apr-19 A	24-Apr-19 A	24-Apr-19	24-Apr-19	100%	0	\$0	Drew Winder															
P5922D16	BOS Final Design 1 - Design Modifications	08-May-19 A	31-Jul-19 A	08-May-19	31-Jul-19	100%	0	\$0	Drew Winder															
P5922D90	BOS Final Design 1 - Design Modification Analysis	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Drew Winder															
P5922D90b	BOS Final Design 1 - Design Modification Analysis Continued	03-Sep-19 A	12-Nov-19 A	03-Sep-19	12-Nov-19	100%	0	\$0	Drew Winder															
P5922D95	BOS Final Design 1 - Finalize Design / IDR Prep	18-Nov-19 A	17-Feb-20 A	18-Nov-19	17-Feb-20	100%	0	\$0	Drew Winder															
P5922D65	BOS Manufacturability Review	18-Feb-20 A	28-Feb-20 A	18-Feb-20	28-Feb-20	100%	0	\$0	Drew Winder															
P5922D26	BOS Final Design Part 1 Review	18-Feb-20 A	18-Feb-20 A	18-Feb-20	18-Feb-20	100%	0	\$0	Drew Winder															

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															
P5922D100a	BOS Final Design 2 - DAC / DWG	19-Feb-20 A	31-Mar-20 A	19-Feb-20	31-Mar-20	100%	0	\$0	Drew Winder																												
P5922D100b	BOS Final Design 2 - DAC / DWG continued	01-Apr-20 A	28-Apr-20 A	01-Apr-20	28-Apr-20	100%	0	\$0	Drew Winder																												
P5922D105	BOS Final Design 2 - DAC / DWG Check, FDR Prep	29-Apr-20 A	22-Jun-20 A	29-Apr-20	22-Jun-20	100%	0	\$0	Drew Winder																												
P5922D41	BOS Final Design Part 2 Review	22-Jun-20 A	24-Jun-20 A	22-Jun-20	24-Jun-20	100%	0	\$0	Drew Winder																												
P5922D80	BOS Design Change Notice	02-Jul-20 A	07-Jul-20 A	02-Jul-20	07-Jul-20	100%	0	\$0	Drew Winder																												
P5922D46	BOS Design Closeout	03-Aug-20 A	10-Aug-20 A	03-Aug-20	10-Aug-20	100%	0	\$0	Drew Winder																												
P05.09.02.03 Target Module Assembly		06-Jul-20 A	19-Mar-24	06-Jul-20	19-Mar-24		691	\$5,857,728																													
P05.09.02.03.03 Procure/Fab - Target Module Assembly		06-Jul-20 A	24-Feb-23	06-Jul-20	09-Jan-23		428	\$5,681,664																													
P5923P31a	Procure ESR material	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder																												
P5923P1	Procure leak detector	02-Nov-20 A	02-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$577	Drew Winder																												
P5923P11	Procure inflatable seal	02-Nov-20 A	01-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$577	Drew Winder																												
P5923P31b	Procure ESR material	04-Jan-21 A	26-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$519	Drew Winder																												
P5923P6	Fabricate leak detector	02-Feb-21 A	19-Apr-21 A	23-Nov-20	24-Mar-21	100%	0	\$0	Drew Winder																												
P5923P16	Fabricate inflatable seal	02-Feb-21 A	19-Apr-21 A	23-Nov-20	25-Jun-21	100%	0	\$0	Drew Winder																												
P5923P36	Fabricate ESR material	25-Feb-21 A	15-Mar-21 A	23-Nov-20	10-Mar-21	100%	0	\$0	Drew Winder																												
P5923MS10	Fabrication of ESR material Complete		15-Mar-21 A		10-Mar-21	100%	0	\$0	Drew Winder																												
P5923P390	Receive ESR material	16-Mar-21 A	16-Mar-21 A	11-Mar-21	11-Mar-21	100%	0	\$29,052	Drew Winder																												
P5923P395	Receive leak detector	19-Apr-21 A	19-Apr-21 A	25-Mar-21	25-Mar-21	100%	0	\$35,684	Drew Winder																												
P5923P400	Receive inflatable seal	19-Apr-21 A	19-Apr-21 A	28-Jun-21	28-Jun-21	100%	0	\$65,230	Drew Winder																												
P5923MS05	Fabrication of leak detector Complete		19-Apr-21 A		24-Mar-21	100%	0	\$0	Drew Winder																												
P5923MS15	Fabrication of inflatable seal Complete		19-Apr-21 A		25-Jun-21	100%	0	\$0	Drew Winder																												
P5923P41	Procure target module sensors	04-May-22	24-May-22	04-May-22	24-May-22	0%	15	\$481	Drew Winder																												
P5923P46	Fabricate target module sensors	25-May-22	14-Jul-22	25-May-22	14-Jul-22	0%	35	\$0	Drew Winder																												
P5923P21	Procure contract for coating target nose	11-Jul-22	29-Jul-22	11-Jul-22	29-Jul-22	0%	15	\$481	Drew Winder																												
P5923P375	Receive target module sensors	15-Jul-22	15-Jul-22	15-Jul-22	15-Jul-22	0%	1	\$42,261	Drew Winder																												
P5923P26	Coating of the target nose complete (T1)	01-Aug-22	05-Aug-22	01-Aug-22	05-Aug-22	0%	5	\$8,243	Drew Winder																												
P5923P55	Coating of the target nose complete (T2)	21-Oct-22	27-Oct-22	21-Oct-22	27-Oct-22	0%	5	\$8,422	Drew Winder																												
P5923P60	Coating of the target nose complete (T3)	17-Feb-23	23-Feb-23	22-Dec-22	06-Jan-23	0%	5	\$8,422	Drew Winder																												
P05.09.02.03.03.01 Target Module		06-Jul-20 A	24-Feb-23	06-Jul-20	09-Jan-23		428	\$5,348,011																													
P5923P360	Procurement Readiness Review (PRR) for 3 Target Modules	06-Jul-20 A	10-Jul-20 A	06-Jul-20	10-Jul-20	100%	0	\$0	Drew Winder																												
P5923MS135	Technical Package to Procurement for 3 Target Modules		10-Jul-20 A		10-Jul-20	100%	0	\$0	Drew Winder																												
P5923P365	Procurement Review and Bid for 3 Target Modules	13-Jul-20 A	24-Jul-20 A	13-Jul-20	24-Jul-20	100%	0	\$0	Drew Winder																												
P5923MS140	Issue RFP for 3 Target Modules		24-Jul-20 A		24-Jul-20	100%	0	\$0	Drew Winder																												

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5923P370	Solicitation Period for 3 Target Modules	03-Aug-20 A	21-Aug-20 A	03-Aug-20	21-Aug-20	100%	0	\$0	Drew Winder															
P5923MS145	Solicitation Complete for 3 Target Modules		21-Aug-20 A		21-Aug-20	100%	0	\$0	Drew Winder															
P5923P200	Review and Award Contract for 3 Target Modules	24-Aug-20 A	30-Oct-20 A	24-Aug-20	30-Oct-20	100%	0	\$0	Drew Winder															
P5923P81	Award contract for 3 target modules		30-Oct-20 A		30-Oct-20	100%	0	\$0	Drew Winder															
P05.09.02.03.03.01.01 Target 1		02-Nov-20 A	08-Aug-22	02-Nov-20	08-Aug-22		295	\$1,782,670																
P5923P151	Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material (T1)	02-Nov-20 A	15-Mar-21 A	02-Nov-20	08-Jan-21	100%	0	\$0	Drew Winder															
P5923P411	MS Payment: Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material (T1)	16-Mar-21 A	16-Mar-21 A	11-Jan-21	11-Jan-21	100%	0	\$445,667	Drew Winder															
P5923P461	Successful comp of A228-I Center Front Sleeve (T1)	17-Mar-21 A	16-Jul-21	12-Jan-21	16-Jul-21	0%	33	\$0	Drew Winder															
P5923P471	MS Payment: Successful comp of A228-I Center Front Sleeve (T1)	19-Jul-21	19-Jul-21	19-Jul-21	19-Jul-21	0%	1	\$445,668	Drew Winder															
P5923P471	Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (T1)	20-Jul-21	17-Dec-21	20-Jul-21	17-Dec-21	0%	106	\$0	Drew Winder															
P5923P481	MS Payment: Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (T1)	20-Dec-21	20-Dec-21	20-Dec-21	20-Dec-21	0%	1	\$445,667	Drew Winder															
P5923P481	Successful Compl of delivery & Company acceptance of all components & Final Documentation (T1)	21-Dec-21	05-Aug-22	21-Dec-21	05-Aug-22	0%	153	\$0	Drew Winder															
P5923MS8	Fabrication of production target (T1) complete		05-Aug-22		05-Aug-22	0%	0	\$0	Drew Winder															
P5923P491	MS Payment: Successful Compl of delivery & Company acceptance of all components & Final Documentation (T1)	08-Aug-22	08-Aug-22	08-Aug-22	08-Aug-22	0%	1	\$445,668	Drew Winder															
P05.09.02.03.03.01.02 Target 2		02-Nov-20 A	28-Oct-22	02-Nov-20	28-Oct-22		353	\$1,782,670																
P5923P141	Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material (T2)	02-Nov-20 A	15-Mar-21 A	02-Nov-20	08-Jan-21	100%	0	\$0	Drew Winder															
P5923P411	MS Payment: Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material (T2)	16-Mar-21 A	16-Mar-21 A	11-Jan-21	11-Jan-21	100%	0	\$445,667	Drew Winder															
P5923P491	Successful comp of A228-I Center Front Sleeve (T2)	17-Mar-21 A	13-Aug-21	12-Jan-21	13-Aug-21	0%	53	\$0	Drew Winder															
P5923P501	MS Payment: Successful comp of A228-I Center Front Sleeve (T2)	16-Aug-21	16-Aug-21	16-Aug-21	16-Aug-21	0%	1	\$445,668	Drew Winder															
P5923P501	Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (T2)	17-Aug-21	15-Feb-22	17-Aug-21	15-Feb-22	0%	120	\$0	Drew Winder															
P5923P511	MS Payment: Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (T2)	16-Feb-22	16-Feb-22	16-Feb-22	16-Feb-22	0%	1	\$445,667	Drew Winder															
P5923P511	Successful Compl of delivery & Company acceptance of all components & Final Documentation (T2)	17-Feb-22	27-Oct-22	17-Feb-22	27-Oct-22	0%	177	\$0	Drew Winder															
P5923P91	Fabrication of 1 additional production target for demonstration of KPP (T2) Complete		27-Oct-22		27-Oct-22	0%	0	\$0	Drew Winder															
P5923P521	MS Payment: Successful Compl of delivery & Company acceptance of all components & Final Documentation (T2)	28-Oct-22	28-Oct-22	28-Oct-22	28-Oct-22	0%	1	\$445,668	Drew Winder															
P05.09.02.03.03.01.03 Target 3		02-Nov-20 A	24-Feb-23	02-Nov-20	09-Jan-23		428	\$1,782,670																
P5923P151	Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material (T3)	02-Nov-20 A	15-Mar-21 A	02-Nov-20	08-Jan-21	100%	0	\$0	Drew Winder															
P5923P421	MS Payment: Receipt (Seller) of all raw mat for MV, successful compl of testing, & HIP Processing of material (T3)	16-Mar-21 A	16-Mar-21 A	11-Jan-21	11-Jan-21	100%	0	\$445,667	Drew Winder															
P5923P521	Successful comp of A228-I Center Front Sleeve (T3)	17-Mar-21 A	30-Sep-21	12-Jan-21	13-Aug-21	0%	86	\$0	Drew Winder															
P5923P531	MS Payment: Successful comp of A228-I Center Front Sleeve (T3)	01-Oct-21	01-Oct-21	16-Aug-21	16-Aug-21	0%	1	\$445,668	Drew Winder															
P5923P531	Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (T3)	04-Oct-21	03-Jun-22	17-Aug-21	18-Apr-22	0%	163	\$0	Drew Winder															
P5923P541	MS Payment: Receipt (Seller) of all Purchased items for MV & Successful comp of all pre-weld fab (T3)	06-Jun-22	06-Jun-22	19-Apr-22	19-Apr-22	0%	1	\$445,667	Drew Winder															
P5923P541	Successful Compl of delivery & Company acceptance of all components & Final Documentation (T3)	07-Jun-22	23-Feb-23	20-Apr-22	06-Jan-23	0%	176	\$0	Drew Winder															
P5923P151	Fabrication of spare target module (T3) Complete		23-Feb-23		06-Jan-23	0%	0	\$0	Drew Winder															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5923P55	MS Payment: Successful Compl of delivery & Company acceptance of all components & Final Documentation (T3)	24-Feb-23	24-Feb-23	09-Jan-23	09-Jan-23	0%	1	\$445,668	Drew Winder															
P05.09.02.03.03.02 Swirl Bubblers for Target Module		01-Sep-20 A	02-Aug-21	01-Sep-20	02-Aug-21		44	\$133,702																
P5923P425	Prepare SOW and Tech Spec for Swirl Bubblers for Target Modules	01-Sep-20 A	23-Sep-20 A	01-Sep-20	23-Sep-20	100%	0	\$0	Drew Winder															
P5923P445	Procurement Readiness Review (PRR) for Swirl Bubblers for Target Modules	01-Oct-20 A	07-Oct-20 A	01-Oct-20	07-Oct-20	100%	0	\$0	Drew Winder															
P5923P450	Procurement Review and Bid for Swirl Bubblers for Target Modules	08-Oct-20 A	28-Oct-20 A	08-Oct-20	28-Oct-20	100%	0	\$0	Drew Winder															
P5923MS155	Issue RFP for Swirl Bubblers for Target Modules		28-Oct-20 A		28-Oct-20	100%	0	\$0	Drew Winder															
P5923P455	Solicitation Period for Swirl Bubblers for Target Modules	29-Oct-20 A	30-Oct-20 A	29-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder															
P5923MS150	Technical Package to Procurement for Swirl Bubblers for Target Modules		30-Oct-20 A		30-Oct-20	100%	0	\$0	Drew Winder															
P5923MS160	Solicitation Complete for Swirl Bubblers for Target Modules		30-Oct-20 A		30-Oct-20	100%	0	\$0	Drew Winder															
P5923MS165	Award Contract for Swirl Bubblers for Target Modules		30-Oct-20 A		30-Oct-20	100%	0	\$0	Drew Winder															
P5923P430	Fabricate Swirl Bubblers for Target Modules	30-Oct-20 A	01-Jul-21	30-Oct-20	01-Jul-21	35%	23	\$0	Drew Winder															
P5923P460	Review and Award Contract for Swirl Bubblers for Target Modules	30-Oct-20 A	30-Oct-20 A	30-Oct-20	30-Oct-20	100%	0	\$0	Drew Winder															
P5923MS170	Fabrication Complete for Swirl Bubblers for Target Modules		01-Jul-21		01-Jul-21	0%	0	\$0	Drew Winder															
P5923P435	Receive Swirl Bubblers for Target Modules	02-Jul-21	02-Jul-21	02-Jul-21	02-Jul-21	0%	1	\$115,440	Drew Winder															
P5923P560	Bubbler Dimensional Inspection - Target Modules	06-Jul-21	19-Jul-21	06-Jul-21	19-Jul-21	0%	10	\$16,514	Drew Winder															
P5923P565	Plug Weld and Orbital Weld - Target Modules	20-Jul-21	26-Jul-21	20-Jul-21	26-Jul-21	0%	5	\$1,361	Drew Winder															
P5923P570	Bubbler Weld Inspection - Target Modules	27-Jul-21	02-Aug-21	27-Jul-21	02-Aug-21	0%	5	\$388	Drew Winder															
P05.09.02.03.04 Installation - Target Module Assembly		18-Jul-22	19-Mar-24	18-Jul-22	19-Mar-24		412	\$176,065																
P5923151	Install target module sensors (T1)	18-Jul-22	05-Aug-22	18-Jul-22	05-Aug-22	0%	15	\$21,172	Drew Winder															
P5923116	Prepare target for installation on carriage (T1)	09-Aug-22	22-Aug-22	09-Aug-22	22-Aug-22	0%	10	\$25,969	Drew Winder															
P5923170	Install target module sensors (T2)	07-Oct-22	27-Oct-22	07-Oct-22	27-Oct-22	0%	15	\$21,926	Drew Winder															
P59231106	Install target module on target carriage (T1)	06-Jun-23	14-Jun-23	06-Jun-23	14-Jun-23	0%	7	\$39,281	Drew Winder															
P59231130	Prepare target for installation on carriage (T2)	15-Jun-23	28-Jun-23	15-Jun-23	28-Jun-23	0%	10	\$26,930	Drew Winder															
P59231115	Install target module on target carriage (T2)	11-Mar-24	19-Mar-24	11-Mar-24	19-Mar-24	0%	7	\$40,786	Drew Winder															
P05.09.03 Supporting Hardware		05-Apr-18 A	11-Nov-21	05-Apr-18	24-May-21		116	\$42,843																
P05.09.03.02 Design - Supporting Hardware		05-Apr-18 A	21-Jun-21	05-Apr-18	16-Dec-20		15	\$17,458																
P593D45	Solicit bids and award contract for compute nodes in support of design exploration (8)	05-Apr-18 A	06-Apr-18 A	05-Apr-18	06-Apr-18	100%	0	\$0	Drew Winder															
P593D45a	Fabricate compute nodes in support of design exploration (8)	01-Jun-18 A	29-Jun-18 A	01-Jun-18	29-Jun-18	100%	0	\$0	Drew Winder															
P593D50	Receive compute nodes in support of design exploration (8)	29-Jun-18 A	29-Jun-18 A	29-Jun-18	29-Jun-18	100%	0	\$0	Drew Winder															
P593D1	Issue DCR for jumpers	01-May-20 A	01-May-20 A	01-May-20	01-May-20	100%	0	\$0	Drew Winder															
P593D6a	Design jumpers	04-May-20 A	30-Oct-20 A	04-May-20	30-Oct-20	100%	0	\$0	Drew Winder															
P593D6b	Design jumpers continued	02-Nov-20 A	16-Nov-20 A	02-Nov-20	16-Nov-20	100%	0	\$4,738	Drew Winder															
P593D11	Finalize jumper design	17-Nov-20 A	05-Feb-21 A	17-Nov-20	23-Nov-20	100%	0	\$5,433	Drew Winder															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P593D55	Design Bubbler Leak Fixture	24-Nov-20 A	01-Feb-21 A	24-Nov-20	16-Dec-20	100%	0	\$3,617	Drew Winder															
P593D60	Design Orbital Weld Fixture	01-Jun-21	21-Jun-21	24-Nov-20	16-Dec-20	0%	15	\$3,670	Drew Winder															
P05.09.03.03 Procure/Fab - Supporting Hardware		08-Feb-21 A	11-Nov-21	24-Nov-20	24-May-21		116	\$25,385																
P593P40	Fabricate Bubbler Leak Fixture	08-Feb-21 A	19-Feb-21 A	17-Dec-20	13-Jan-21	100%	0	\$4,536	Drew Winder															
P593P16	Procure jumpers	01-Jun-21	21-Jun-21	24-Nov-20	16-Dec-20	0%	15	\$462	Drew Winder															
P593P21	Fabricate jumpers (3)	22-Jun-21	31-Aug-21	17-Dec-20	11-Mar-21	0%	50	\$0	Drew Winder															
P593P45	Fabricate Orbital Weld Fixture	22-Jun-21	06-Jul-21	17-Dec-20	13-Jan-21	0%	10	\$4,536	Drew Winder															
P5923MS20	Fabrication of jumpers Complete		31-Aug-21		11-Mar-21	0%	0	\$0	Drew Winder															
P593P26	Fabricate spare jumpers (3)	01-Sep-21	10-Nov-21	12-Mar-21	21-May-21	0%	50	\$0	Drew Winder															
P593P31	Receive jumpers (3)	01-Sep-21	01-Sep-21	12-Mar-21	12-Mar-21	0%	1	\$7,814	Drew Winder															
P5923MS25	Fabrication of spare jumpers Complete		10-Nov-21		21-May-21	0%	0	\$0	Drew Winder															
P593P36	Receive spare jumpers (3)	11-Nov-21	11-Nov-21	24-May-21	24-May-21	0%	1	\$8,039	Drew Winder															
P05.09.04 PPU Test Target		05-Mar-19 A	19-Sep-22	05-Mar-19	16-Aug-22		324	\$3,835,071																
P05.09.04.02 Design - PPU Test Target		05-Mar-19 A	19-Sep-22	05-Mar-19	16-Aug-22		324	\$3,835,071																
P5942D90	PPU Test Target Final Design	05-Mar-19 A	31-Mar-19 A	05-Mar-19	31-Mar-19	100%	0	\$0	Drew Winder															
P5942D115b	PPU Test Target Final Design Continued	01-Jul-19 A	30-Aug-19 A	01-Jul-19	30-Aug-19	100%	0	\$0	Drew Winder															
P5942D115c	PPU Test Target Final Design (Sept 19 only)	03-Sep-19 A	07-Oct-19 A	03-Sep-19	07-Oct-19	100%	0	\$0	Drew Winder															
P05.09.04.02.01 Test Target 1		12-Aug-19 A	29-Mar-22	12-Aug-19	29-Mar-22		204	\$1,286,568																
P5942D95	PPU Test Target 1 Final Review	25-Sep-19 A	28-Sep-19 A	25-Sep-19	28-Sep-19	100%	0	\$0	Drew Winder															
P5942D80	Procurement Readiness Review (PRR) for PPU Test Target 1 Assembly	07-Oct-19 A	07-Oct-19 A	07-Oct-19	07-Oct-19	100%	0	\$0	Drew Winder															
P5942D100	PPU Test Target 1 Module Design Change Notice	08-Oct-19 A	09-Oct-19 A	08-Oct-19	09-Oct-19	100%	0	\$0	Drew Winder															
P5942D105	PPU Test Target 1 Module Design Closeout	11-Nov-19 A	28-Feb-20 A	11-Nov-19	28-Feb-20	100%	0	\$0	Drew Winder															
P5942D325a	Manufacturing specification and SOW writing (LOE) (FY20)	10-Dec-19 A	31-Mar-20 A	10-Dec-19	31-Mar-20	100%	0	\$0	Drew Winder															
P5942D25	Procure inflatable seal for PPU Test Target 1 Module	06-Jan-20 A	16-Jan-20 A	06-Jan-20	16-Jan-20	100%	0	\$0	Drew Winder															
P5942D40	Fabricate inflatable seal for PPU Test Target 1 Assembly	16-Jan-20 A	04-Jun-20 A	16-Jan-20	04-Jun-20	100%	0	\$0	Drew Winder															
P5942D20	Procure leak detector for PPU Test Target 1 Module	03-Feb-20 A	21-Feb-20 A	03-Feb-20	21-Feb-20	100%	0	\$0	Drew Winder															
P5942D35	Fabricate leak detector for PPU Test Target 1 Assembly	24-Feb-20 A	02-Jun-20 A	24-Feb-20	02-Jun-20	100%	0	\$0	Drew Winder															
P5942D325b	Manufacturing specification and SOW writing (LOE) (FY20) continued	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Drew Winder															
P5942D330	Fabrication of leak detector for PPU Test Target 1 Module Complete		02-Jun-20 A		02-Jun-20	100%	0	\$0	Drew Winder															
P5942D705	Receive leak detector for PPU Test Target 1 Assembly	02-Jun-20 A	02-Jun-20 A	02-Jun-20	02-Jun-20	100%	0	\$0	Drew Winder															
P5942D335	Fabrication of inflatable seal for PPU Test Target 1 Module Complete		04-Jun-20 A		04-Jun-20	100%	0	\$0	Drew Winder															
P5942D695	Receive inflatable seal for PPU Test Target 1 Assembly	05-Jun-20 A	05-Jun-20 A	05-Jun-20	05-Jun-20	100%	0	\$0	Drew Winder															
P5942D30	Procure target module sensors for PPU Test Target 1 Module	01-Mar-21 A	15-Mar-21 A	17-May-21	07-Jun-21	100%	0	\$462	Drew Winder															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5942D320	Purchase, Test, & Process Raw Materials for Target Assembly	11-Dec-19 A	01-May-20 A	11-Dec-19	01-May-20	100%	0	\$0	Drew Winder															
P5942D400	Pre-weld Fabrication	01-May-20 A	27-Oct-20 A	01-May-20	27-Oct-20	100%	0	\$0	Drew Winder															
P5942MS20	MS Payment Raw Materials Received, Tested, & HIP Processed	01-May-20 A	01-May-20 A	01-May-20	01-May-20	100%	0	\$0	Drew Winder															
P5942D410	EB Welding and NDT verification	02-Oct-20 A	31-Dec-20 A	02-Oct-20	25-Feb-21	100%	0	\$0	Drew Winder															
P5942MS90	MS Payment All items purchased have been rec. & all pre-weld fab completed	27-Oct-20 A	27-Oct-20 A	27-Oct-20	27-Oct-20	100%	0	\$0	Drew Winder															
P5942MS100	MS Payment EB welding complete and verified by NDT	31-Dec-20 A	31-Dec-20 A	26-Feb-21	26-Feb-21	100%	0	\$261,197	Drew Winder															
P5942D420	Assembly Fabrication	29-Jun-21	17-Dec-21	01-Mar-21	18-Aug-21	0%	120	\$0	Drew Winder															
P5942MS110	MS Payment Delivery of all components & final documentation	20-Dec-21	20-Dec-21	19-Aug-21	19-Aug-21	0%	1	\$454,350	Drew Winder															
P05.09.04.02.01.03 Swirl Bubbler Test Target 1		03-Aug-20 A	14-Jun-21	03-Aug-20	21-Jan-21		10	\$38,234																
P5942D460	Procure swirl bubbler for PPU Test Target 1	03-Aug-20 A	07-Aug-20 A	03-Aug-20	07-Aug-20	100%	0	\$0	Drew Winder															
P5942D470	Fabricate swirl bubbler for PPU Test Target 1	10-Aug-20 A	15-Dec-20 A	10-Aug-20	25-Nov-20	100%	0	\$0	Drew Winder															
P5942D480	Receive swirl bubbler for PPU Test Target 1	16-Dec-20 A	16-Dec-20 A	30-Nov-20	30-Nov-20	100%	0	\$31,695	Drew Winder															
P5942D485	Bubbler Dimensional Inspection - Test Target 1	17-Dec-20 A	26-Mar-21 A	01-Dec-20	07-Dec-20	100%	0	\$5,471	Drew Winder															
P5942D490	Plug Weld and Tube Fillet Weld - Test Target 1	03-May-21 A	07-Jun-21	07-Jan-21	13-Jan-21	50%	5	\$680	Drew Winder															
P5942D495	Bubbler Weld Inspection - Test Target 1	08-Jun-21	14-Jun-21	14-Jan-21	21-Jan-21	0%	5	\$388	Drew Winder															
P05.09.04.02.02 Test Target 2		23-Jun-20 A	19-Sep-22	23-Jun-20	16-Aug-22		324	\$2,548,504																
P5942D585	PPU Test Target 2 Final Review	23-Jun-20 A	24-Jun-20 A	23-Jun-20	24-Jun-20	100%	0	\$0	Drew Winder															
P5942D595	PPU Test Target 2 Module Design Change Notice	01-Jul-20 A	10-Jul-20 A	01-Jul-20	10-Jul-20	100%	0	\$0	Drew Winder															
P5942D590	Procurement Readiness Review (PRR) for PPU Test Target 2 Assembly	07-Jul-20 A	10-Jul-20 A	07-Jul-20	10-Jul-20	100%	0	\$0	Drew Winder															
P5942D600	PPU Test Target 2 Module Design Closeout	03-Aug-20 A	03-Aug-20 A	03-Aug-20	03-Aug-20	100%	0	\$0	Drew Winder															
P5942D605	Manufacturing specification and SOW writing (LOE) (FY20)	01-Sep-20 A	30-Sep-20 A	01-Sep-20	30-Sep-20	100%	0	\$0	Drew Winder															
P5942D620	Procure leak detector for PPU Test Target 2 Module	02-Nov-20 A	01-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$577	Drew Winder															
P5942D610	Procure inflatable seal for PPU Test Target 2 Module	02-Nov-20 A	11-Feb-21 A	02-Nov-20	12-Nov-20	100%	0	\$562	Drew Winder															
P5942D740	Procure Weld Development Fabrication	04-Jan-21 A	14-Jan-21 A	01-Mar-21	11-Mar-21	100%	0	\$579	Drew Winder															
P5942D745	Weld Development Article Fabrication	12-Jan-21 A	21-Jun-21	12-Mar-21	25-May-21	80%	15	\$0	Drew Winder															
P5942D630	Fabricate leak detector for PPU Test Target 2 Assembly	02-Feb-21 A	19-Apr-21 A	23-Nov-20	24-Mar-21	100%	0	\$0	Drew Winder															
P5942D615	Fabricate inflatable seal for PPU Test Target 2 Assembly	12-Feb-21 A	19-Apr-21 A	13-Nov-20	19-Jan-21	100%	0	\$0	Drew Winder															
P5942D775	Procure ESR Material	12-Feb-21 A	15-Feb-21 A	01-Apr-21	05-Apr-21	100%	0	\$462	Drew Winder															
P5942D780	Fabricate ESR material	16-Feb-21 A	15-Mar-21 A	06-Apr-21	19-Apr-21	100%	0	\$0	Drew Winder															
P5942D785	Receive ESR material	16-Mar-21 A	16-Mar-21 A	20-Apr-21	20-Apr-21	100%	0	\$19,391	Drew Winder															
P5942D710	Receive inflatable seal for PPU Test Target 2 Assembly	19-Apr-21 A	19-Apr-21 A	20-Jan-21	20-Jan-21	100%	0	\$21,528	Drew Winder															
P5942D715	Receive leak detector for PPU Test Target 2 Assembly	19-Apr-21 A	19-Apr-21 A	25-Mar-21	25-Mar-21	100%	0	\$11,895	Drew Winder															
P5942D650	Fabrication of leak detector for PPU Test Target 2 Module Complete		19-Apr-21 A		24-Mar-21	100%	0	\$0	Drew Winder															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5102MS001	Internal Design Review Phase 1 (IDR1) Complete		01-Mar-19 A		01-Mar-19	100%	0	\$0	Charlotte Barbier															
P5102D56	Respond to the IDR1 recommendations	01-Apr-19 A	05-Apr-19 A	01-Apr-19	05-Apr-19	100%	0	\$0	Charlotte Barbier															
P5102D145b	Perform CFD simulations to support PDR up to CD2 review Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
P5102D155b	Determine availability in current FTS for potential additional sensors related to PPU FTS upgrades Continued	01-Apr-19 A	09-May-19 A	01-Apr-19	09-May-19	100%	0	\$0	Charlotte Barbier															
P5102D46	Brief DOE on IDR1 outcome	08-Apr-19 A	12-Apr-19 A	08-Apr-19	12-Apr-19	100%	0	\$0	Charlotte Barbier															
P5102D1	Safety & Operation Assessment in preparation of the CD2 System Review	03-Jun-19 A	30-Aug-19 A	03-Jun-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
P5102D100a1	Perform CFD simulations on gas accumulation in HX for Off-normal preparation	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Charlotte Barbier															
P5102D160	Procure and receive Fluent+HPC pack license 1 year lease	01-Aug-19 A	21-Aug-19 A	01-Aug-19	21-Aug-19	100%	0	\$0	Charlotte Barbier															
P5102D100a2	Perform CFD simulations on gas accumulation in HX for Off-normal preparation (Continued)	03-Sep-19 A	29-Oct-19 A	03-Sep-19	29-Oct-19	100%	0	\$0	Charlotte Barbier															
P5102D145c	Perform CFD simulations to support PDR up to CD2 review (Sept 19 only)	03-Sep-19 A	27-Sep-19 A	03-Sep-19	27-Sep-19	100%	0	\$0	Charlotte Barbier															
P5102D1b	Safety & Operation Assessment in preparation of the CD2 System Review (Sept 19 only)	03-Sep-19 A	12-Sep-19 A	03-Sep-19	12-Sep-19	100%	0	\$0	Charlotte Barbier															
P5102D110	Review and improvement of Safety & Operation Assessment in preparation preliminary design review	13-Sep-19 A	14-Oct-19 A	13-Sep-19	14-Oct-19	100%	0	\$0	Charlotte Barbier															
P5102D125	Preparation for the Off-Normal analysis - update of the Process Flow Diagram	15-Oct-19 A	22-Nov-19 A	15-Oct-19	22-Nov-19	100%	0	\$0	Charlotte Barbier															
P5102D100b	Perform CFD simulations on gas accumulation in the piping using a discrete phase model	30-Oct-19 A	06-Dec-19 A	30-Oct-19	06-Dec-19	100%	0	\$0	Charlotte Barbier															
P5102D165	Preparation for the Off-Normal analysis - update of the interlocks and alarms	26-Nov-19 A	21-Jan-20 A	26-Nov-19	21-Jan-20	100%	0	\$0	Charlotte Barbier															
P5102D185	Perform CFD simulations on gas accumulation in the piping using a Euler-Euler phase model	09-Dec-19 A	27-Jan-20 A	09-Dec-19	27-Jan-20	100%	0	\$0	Charlotte Barbier															
P5102D190a	Perform CFD simulations on gas accumulation on a simplified HX using a Euler-Euler phase model	28-Jan-20 A	31-Mar-20 A	28-Jan-20	31-Mar-20	100%	0	\$0	Charlotte Barbier															
P5102D170	Preparation for the Off-Normal analysis - update of the safety analysis for the OFT	03-Feb-20 A	21-Feb-20 A	03-Feb-20	21-Feb-20	100%	0	\$0	Charlotte Barbier															
P5102D175a	Preparation for the Off-Normal analysis - update of the PCD	24-Feb-20 A	31-Mar-20 A	24-Feb-20	31-Mar-20	100%	0	\$0	Charlotte Barbier															
P5102D195	Perform CFD simulations on gas accum: compile results & compare w SNS experience w gas injection over prior 3 yrs	26-Feb-20 A	27-Mar-20 A	26-Feb-20	27-Mar-20	100%	0	\$0	Charlotte Barbier															
P5102D190b	Perform CFD simulations on gas accumulation on a simplified HX using a Euler-Euler phase model continued	01-Apr-20 A	29-Apr-20 A	01-Apr-20	29-Apr-20	100%	0	\$0	Charlotte Barbier															
P5102D175b	Preparation for the Off-Normal analysis - update of the PCD continued	01-Apr-20 A	29-Apr-20 A	01-Apr-20	29-Apr-20	100%	0	\$0	Charlotte Barbier															
P5102D100c	Perform CFD simulations for the GLS	30-Apr-20 A	28-May-20 A	30-Apr-20	28-May-20	100%	0	\$0	Charlotte Barbier															
P5102D180	Preparation for the Off-Normal analysis - preparation of the review	30-Apr-20 A	20-May-20 A	30-Apr-20	20-May-20	100%	0	\$0	Charlotte Barbier															
P5102D120	Preparation of the Safety & Operation Assessment of the FTS Preliminary Design for CD2/3 review	01-Jun-20 A	30-Jun-20 A	01-Jun-20	30-Jun-20	100%	0	\$0	Charlotte Barbier															
P5102D200	Based on CFD work, estimate gas accumulation in the hg process loop with the presence of the GLS	01-Jun-20 A	26-Jun-20 A	01-Jun-20	26-Jun-20	100%	0	\$0	Charlotte Barbier															
P5102D205	Compile all the CFD results for the multiphase flow in the process loop into a technical report	29-Jun-20 A	30-Jul-20 A	29-Jun-20	30-Jul-20	100%	0	\$0	Charlotte Barbier															
P5102D100d	Compile a report with all the results	31-Jul-20 A	10-Sep-20 A	31-Jul-20	10-Sep-20	100%	0	\$0	Charlotte Barbier															
P5102D61	Off normal analysis	28-Oct-20 A	29-Oct-20 A	28-Oct-20	29-Oct-20	100%	0	\$0	Charlotte Barbier															
P5102MS1	Off normal analysis Complete		30-Oct-20 A		30-Oct-20	100%	0	\$0	Charlotte Barbier															
P5102D66	Respond to the off normal analysis	02-Nov-20 A	06-Nov-20 A	02-Nov-20	06-Nov-20	100%	0	\$8,582	Charlotte Barbier															
P5102D41	Brief DOE on off normal analysis outcome	09-Nov-20 A	13-Nov-20 A	09-Nov-20	13-Nov-20	100%	0	\$6,971	Charlotte Barbier															
P5102D71	Develop a commissioning plan and get it approved	30-Mar-22	23-Jun-22	30-Mar-22	23-Jun-22	0%	60	\$30,046	Charlotte Barbier															

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
P5102D76	Receive approval to proceed with installation of ortho/para converters and vessel	03-Jan-23	31-Jan-23	03-Jan-23	31-Jan-23	0%	20	\$11,509	Charlotte Barbier															
P5102D81	Receive approval to proceed with installation of ortho/para converters diagnostics	15-Feb-23	14-Mar-23	15-Feb-23	14-Mar-23	0%	20	\$11,509	Charlotte Barbier															
P5102D91	Prepare for approval to test target without beam	11-Jul-23	07-Aug-23	11-Jul-23	07-Aug-23	0%	20	\$17,060	Charlotte Barbier															
P05.10.03 Controls Integration		03-Feb-20 A	19-Jun-23	03-Feb-20	19-Jun-23		507	\$2,173,108																
P05.10.03.02 Design - Controls Integration		03-Feb-20 A	31-Aug-22	03-Feb-20	31-Aug-22		312	\$1,060,112																
P5103D86a	Update controls documentation related to MOTS upgrade (delay bed+cold trap)	03-Feb-20 A	31-Mar-20 A	03-Feb-20	31-Mar-20	100%	0	\$0	Charlotte Barbier															
P5103D116	Update controls documentation related to the 2MW target	02-Nov-20 A	02-Jun-21	02-Nov-20	10-Feb-21	68%	2	\$24,019	Charlotte Barbier															
P05.10.03.02.01 Gas Recirculation		01-Jun-20 A	20-May-22	01-Jun-20	09-Jun-22		241	\$438,302																
P5103D190	Phase 2 Schematic DesignPart 1 - Gas Recirculation	01-Jun-20 A	26-Aug-20 A	01-Jun-20	26-Aug-20	100%	0	\$0	Charlotte Barbier															
P5103D215a	Phase 2 Schematic DesignPart 2 - Gas Recirculation	01-Sep-20 A	30-Oct-20 A	01-Sep-20	30-Oct-20	100%	0	\$0	Charlotte Barbier															
P5103D215b	Phase 2 Schematic DesignPart 2 - Gas Recirculation Continued	02-Nov-20 A	26-Feb-21 A	02-Nov-20	30-Nov-20	100%	0	\$35,260	Charlotte Barbier															
P5103D240	Phase 2 PLC Config. & Programming Design - Gas Recirculation	04-Jan-21 A	28-Jun-21	01-Dec-20	11-Mar-21	15%	20	\$82,859	Charlotte Barbier															
P5103D255	Phase 3 Schematic Design - Gas Recirculation	29-Jun-21	24-Sep-21	12-Mar-21	09-Jun-21	0%	62	\$58,357	Charlotte Barbier															
P5103D216	Phase 2 Schematic Design - Mol Sieve GR	13-Jul-21*	23-Aug-21	13-Jul-21	23-Aug-21	0%	30	\$28,361	Charlotte Barbier															
P5103D241	Phase 2 PLC Config. & Programming Design - GR	15-Sep-21	29-Nov-21	04-Oct-21	16-Dec-21	0%	52	\$32,635	Charlotte Barbier															
P5103D242	Phase 2 PLC Config. & Programming Design - Mol Sieve	30-Nov-21	11-Feb-22	17-Dec-21	02-Mar-22	0%	46	\$32,850	Charlotte Barbier															
P5103D256	Phase 3 Schematic Design - GR+MS	30-Nov-21	24-Feb-22	17-Dec-21	15-Mar-22	0%	55	\$49,770	Charlotte Barbier															
P5103D260	Phase 3 Config. & Programming Design - Gas Recirculation	25-Feb-22	18-Apr-22	16-Mar-22	05-May-22	0%	36	\$29,712	Charlotte Barbier															
P5103D265	Phase 3 EPICS Design Development - Gas Recirculation	25-Feb-22*	20-May-22	16-Mar-22	09-Jun-22	0%	60	\$88,497	Charlotte Barbier															
P05.10.03.02.02 Hydrogen Refill System		16-Jul-20 A	03-Feb-22	16-Jul-20	08-Nov-21		166	\$87,838																
P5103D205a	Phase 2 Schematic Design - HRS	16-Jul-20 A	30-Oct-20 A	16-Jul-20	30-Oct-20	100%	0	\$0	Charlotte Barbier															
P5103D205b	Phase 2 Schematic Design - HRS Continued	02-Nov-20 A	01-Feb-21 A	02-Nov-20	20-Nov-20	100%	0	\$1,555	Charlotte Barbier															
P5103D210	Phase 2 PLC Config. & Programming Design - HRS	23-Nov-20 A	14-Jun-21	23-Nov-20	29-Jan-21	54%	10	\$23,753	Charlotte Barbier															
P5103D225	Phase 3 Schematic Design - HRS	15-Mar-21 A	18-Jun-21	15-Apr-21	24-Jun-21	91%	14	\$17,017	Charlotte Barbier															
P5103D220	Phase 2 HMI Design - HRS	15-Jun-21	26-Aug-21	01-Feb-21	14-Apr-21	0%	52	\$27,795	Charlotte Barbier															
P5103D245	Phase 3 Config. & Programming Design - HRS	10-Sep-21*	15-Nov-21	25-Jun-21	31-Aug-21	0%	47	\$8,080	Charlotte Barbier															
P5103D250	Phase 3 HMI Design - HRS	16-Nov-21	03-Feb-22	01-Sep-21	08-Nov-21	0%	48	\$9,638	Charlotte Barbier															
P05.10.03.02.03 MOTS		01-Jun-21	31-Aug-22	02-Nov-20	31-Aug-22		312	\$387,312																
P5103D120	Phase 2 Schematic Design - MOTS	01-Jun-21	30-Jul-21	02-Nov-20	15-Jan-21	0%	43	\$80,086	Charlotte Barbier															
P5103D185	Phase 2 PLC Config. & Programming Design - MOTS	02-Aug-21	22-Sep-21	19-Jan-21	10-Mar-21	0%	37	\$60,660	Charlotte Barbier															
P5103D121	Phase 2 Schematic Design - MOTS - IO Design	24-Aug-21*	16-Nov-21	24-Aug-21	16-Nov-21	0%	60	\$37,483	Charlotte Barbier															
P5103D230	Phase 3 Schematic Design - MOTS	23-Sep-21	30-Sep-21	11-Mar-21	18-Mar-21	0%	6	\$15,537	Charlotte Barbier															
P5103D235	Phase 3 Config. & Programming Design - MOTS	01-Oct-21	19-Oct-21	19-Mar-21	07-Apr-21	0%	13	\$22,052	Charlotte Barbier															

Table with columns: Activity ID, Activity Name, Start, Finish, BL Start, BL Finish, % Complete, Rem Dur, Budgeted Total Cost, CAM, FY2016-FY2028. Includes summary rows for Mercury Process System, Gas Panel, Catalyst, and Procure/Fab - Controls Integration.

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P5103P25	Receive I&C cabinet construction and components for HRS	31-May-22	31-May-22	15-Mar-22	15-Mar-22	0%	1	\$47,141	Charlotte Barbier															
P05.10.03.03.03 MOTS		15-Feb-22	04-May-22	15-Feb-22	04-May-22		56	\$33,726																
P5103P91	Procure control hardware for MOTS (delay bed+cold trap)	15-Feb-22	07-Mar-22	15-Feb-22	07-Mar-22	0%	15	\$96	Charlotte Barbier															
P5103P136	Fabricate control hardware for MOTS (delay bed+cold trap)	08-Mar-22	03-May-22	08-Mar-22	03-May-22	0%	40	\$0	Charlotte Barbier															
P5103P171	Receive control hardware for MOTS (delay bed+cold trap)	04-May-22	04-May-22	04-May-22	04-May-22	0%	1	\$33,630	Charlotte Barbier															
P05.10.03.03.04 Mercury Process System		01-Jun-22	07-Jul-22	01-Jun-22	07-Jul-22		26	\$9,291																
P5103P16	Procure Control Hardware for overflow sensors	01-Jun-22*	21-Jun-22	01-Jun-22	21-Jun-22	0%	15	\$96	Charlotte Barbier															
P5103P111	Fabricate Control Hardware for overflow sensors	22-Jun-22	06-Jul-22	22-Jun-22	06-Jul-22	0%	10	\$0	Charlotte Barbier															
P5103P146	Receive Control Hardware for overflow sensors	07-Jul-22	07-Jul-22	07-Jul-22	07-Jul-22	0%	1	\$9,195	Charlotte Barbier															
P05.10.03.03.05 Gas Panel		05-Aug-21	29-Oct-21	19-Apr-21	14-Jul-21		61	\$9,243																
P5103P76	Procure control hardware for the target utility systems	05-Aug-21	25-Aug-21	19-Apr-21	07-May-21	0%	15	\$92	Charlotte Barbier															
P5103P131	Fabricate control hardware for the target utility systems	26-Aug-21	28-Oct-21	10-May-21	13-Jul-21	0%	45	\$0	Charlotte Barbier															
P5103P166	Receive control hardware for the target utility systems	29-Oct-21	29-Oct-21	14-Jul-21	14-Jul-21	0%	1	\$9,151	Charlotte Barbier															
P05.10.03.03.06 Catalyst		02-Sep-21	30-Nov-21	22-Apr-21	19-Jul-21		61	\$13,929																
P5103P61	Procure control hardware I&C for the moderator cryogenics systems	02-Sep-21	23-Sep-21	22-Apr-21	12-May-21	0%	15	\$92	Charlotte Barbier															
P5103P126	Fabricate control hardware I&C for the moderator cryogenics systems	24-Sep-21	29-Nov-21	13-May-21	16-Jul-21	0%	45	\$0	Charlotte Barbier															
P5103P161	Receive control hardware I&C for the moderator cryogenics systems	30-Nov-21	30-Nov-21	19-Jul-21	19-Jul-21	0%	1	\$13,837	Charlotte Barbier															
P05.10.03.04 Installation - Controls Integration		03-Jun-21	19-Jun-23	11-Feb-21	19-Jun-23		505	\$911,905																
P5103I121	Programming update, and validation of the controls for the 2MW target	03-Jun-21	26-Aug-21	11-Feb-21	06-May-21	0%	60	\$27,894	Charlotte Barbier															
P5103I126	Update and test TPS/MPS after installation of all FTS components (final control test)	06-Jun-23	19-Jun-23	06-Jun-23	19-Jun-23	0%	10	\$32,690	Charlotte Barbier															
P51034IMS001	P.05.10.03.04_Installation Complete		19-Jun-23		19-Jun-23	0%	0	\$0	Charlotte Barbier															
P51034IMS006	P.05.10.03.04_Operational procedures updated for FTS Controls Integration		19-Jun-23		19-Jun-23	0%	0	\$0	Charlotte Barbier															
P05.10.03.04.01 Gas Recirculation		24-May-22	19-Jun-23	13-Jun-22	19-Jun-23		265	\$406,680																
P5103I145	PLC Cabinet Construction - Gas Recirculation	24-May-22	20-Jul-22	13-Jun-22	08-Aug-22	0%	40	\$110,480	Charlotte Barbier															
P5103I150	PLC Simulation Test - Gas Recirculation	21-Jul-22	31-Aug-22	09-Aug-22	20-Sep-22	0%	30	\$58,148	Charlotte Barbier															
P5103I155	PLC Cabinet & Cable Placement - Gas Recirculation	01-Sep-22	20-Oct-22	21-Sep-22	08-Nov-22	0%	35	\$38,203	Charlotte Barbier															
P5103I325	Finalize PLC cable connections with sensors	01-Feb-23	07-Feb-23	01-Feb-23	07-Feb-23	0%	5	\$6,924	Charlotte Barbier															
P5103I160	Setup and Loop Check - Gas Recirculation	08-Feb-23	03-Mar-23	08-Feb-23	03-Mar-23	0%	18	\$30,559	Charlotte Barbier															
P5103I165	Programming Functional Test - Gas Recirculation	06-Mar-23	24-Apr-23	06-Mar-23	24-Apr-23	0%	35	\$46,410	Charlotte Barbier															
P5103I170	EPICS Checkout - Gas Recirculation	25-Apr-23	05-Jun-23	25-Apr-23	05-Jun-23	0%	29	\$87,388	Charlotte Barbier															
P5103I180	System Final Documentation & Closeout - Gas Recirculation	06-Jun-23	19-Jun-23	06-Jun-23	19-Jun-23	0%	10	\$28,567	Charlotte Barbier															
P05.10.03.04.02 Hydrogen Refill System		08-Aug-22	08-Mar-23	08-Aug-22	08-Mar-23		142	\$79,800																
P5103I130	PLC Cabinet Construction - HRS	08-Aug-22	09-Sep-22	08-Aug-22	09-Sep-22	0%	24	\$34,005	Charlotte Barbier															

