

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	11-Feb-25	03-Oct-16	11-Feb-25		908	\$29,193,617																
P.03 RF Systems		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$29,193,617																
P.03.01 Management and System Integration - RF Systems		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$243,024																
P03FDR3b	P.3 CD3b Final Design Complete (Excluding LLRF, RFQ-Mod1 and KL04)		23-Aug-19 A		23-Aug-19	100%	0	\$0	John Moss															
P03FDR2	P.3 CD3 Final Design Complete (Excluding LLRF and RFQ-Mod1)		24-Sep-19 A		24-Sep-19	100%	0	\$0	John Moss															
P03PDC	P.3 Preliminary Designs Complete		06-Dec-19 A		06-Dec-19	100%	0	\$0	John Moss															
P03FDR3	P.3 Final Design Complete (LLRF and RFQ-Mod1) (MS)		22-Sep-20 A		22-Sep-20	100%	0	\$0	John Moss															
P03T3C	P.3 Linac Protection System Title III Complete (MS)		02-Nov-21		03-Sep-21	0%	0	\$0	John Moss															
P311_RDY1	RF Ready for CM 32 and 31 Testing (MS)		19-Sep-22		19-Sep-22	0%	0	\$0	John Moss															
P311MS10	P.03 RF Integrated Systems Testing Phase 1 Complete (MS)		03-Oct-22		03-Oct-22	0%	0	\$0	John Moss															
P311MS008	P.03 RF Documentation for IRR/ERR Phase 1 Complete (MS)		10-Oct-22		10-Oct-22	0%	0	\$0	John Moss															
P311_RDY2	RF Ready for CM 30, 29, & 28 Testing (MS)		22-Mar-23		22-Mar-23	0%	0	\$0	John Moss															
P311MS20	P.03 RF Integrated Systems Testing Phase 2 Complete (MS)		12-Apr-23		26-Apr-23	0%	0	\$0	John Moss															
P311MS009	P.03 RF Documentation for ARR Phase 2 Complete (MS)		16-Aug-23		16-Aug-23	0%	0	\$0	John Moss															
P311_RDY3	RF Ready for CM 25 and 27 Testing (MS)		23-Apr-24		23-Apr-24	0%	0	\$0	John Moss															
P311MS30	P.03 RF Integrated Systems Testing Phase 3 Complete (MS)		08-May-24		08-May-24	0%	0	\$0	John Moss															
P311MS010	P.03 RF Documentation for IRR/ERR Phase 3 Complete (MS)		14-May-24		14-May-24	0%	0	\$0	John Moss															
P.03.01.01 Management and System Integration - RF Systems - (NEP31100)		03-Oct-16 A	11-Feb-25	03-Oct-16	11-Feb-25		908	\$243,024																
P311M1	Manage P.3 WBS FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	John Moss															
P311M4	Manage P.3 WBS FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	John Moss															
P311M6	Manage P.3 WBS FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	John Moss															
P311M11	Manage P.3 WBS FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	John Moss															
P311M11B	Manage P.3 WBS FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	John Moss															
P311M11C	Manage P.3 WBS FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	John Moss															
P311M16	Manage P.3 WBS FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	John Moss															
P311M16a	Manage P.3 WBS FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	John Moss															
P311M21	Manage P.3 WBS FY21 (LOE) Part 1 (Oct20 only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	John Moss															
P311M21a	Manage P.3 WBS FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$45,075	John Moss															
P311M21b	Manage P.3 WBS FY21 (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$66,802	John Moss															
P311M26	Manage P.3 WBS FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$79,836	John Moss															
P311M31	Manage P.3 WBS FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$20,753	John Moss															
P311M36	Manage P.3 WBS FY24 (LOE)	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0%	247	\$21,581	John Moss															
P311M46	Manage P.3 WBS FY25 (LOE) (Closeout)	01-Oct-24	11-Feb-25	01-Oct-24	11-Feb-25	0%	83	\$8,977	John Moss															

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
P342I261	Install inner-rack cables and dress rack (Phase 3)	27-Apr-22	03-May-22	15-Mar-22	21-Mar-22	0%	5	\$3,808	Mark Crofford															
P342I281	Phase match cables, measure system losses (Phase 3)	04-May-22	01-Jun-22	22-Mar-22	19-Apr-22	0%	20	\$11,452	Mark Crofford															
P342I225	Perform system integration for the LLRF system (Phase 3)	02-Sep-22	30-Sep-22	02-Sep-22	30-Sep-22	0%	20	\$24,430	Mark Crofford															
P342I215	Perform system integration for the RF system (Phase 3)	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24	0%	1	\$3,682	Mark Crofford															
P03.04.03 Arc Detectors		01-Jun-18 A	18-Apr-24	01-Jun-18	18-Apr-24		712	\$445,182																
P03.04.03.02 Design - Arc Detectors - (NEP34320)		01-Jun-18 A	14-Oct-20 A	01-Jun-18	14-Oct-20		0	\$0																
P343D1	Review and modify existing specification for Arc detector	01-Jun-18 A	14-Jun-18 A	01-Jun-18	14-Jun-18	100%	0	\$0	Mark Crofford															
P343D6	Create specification document for Arc detector	22-Jun-18 A	14-Sep-18 A	22-Jun-18	14-Sep-18	100%	0	\$0	Mark Crofford															
P343D11	Generate interface documents for Arc detector	01-Aug-18 A	21-Sep-18 A	01-Aug-18	21-Sep-18	100%	0	\$0	Mark Crofford															
P343D146	Procure Test Article Arc Detector	02-Mar-20 A	31-Mar-20 A	02-Mar-20	31-Mar-20	100%	0	\$0	Mark Crofford															
P343D146a	Procure Test Article Arc Detector (Apr20>)	01-Apr-20 A	17-Apr-20 A	01-Apr-20	17-Apr-20	100%	0	\$0	Mark Crofford															
P343D156	Fabricate Test Article Arc Detector	20-Apr-20 A	02-Jun-20 A	20-Apr-20	02-Jun-20	100%	0	\$0	Mark Crofford															
P343D166	Receive Test Article Arc Detector	02-Jun-20 A	30-Sep-20 A	02-Jun-20	30-Sep-20	100%	0	\$0	Mark Crofford															
P343D176	Test the Test Article Arc Detector and validation with the HPM-II	01-Oct-20 A	14-Oct-20 A	01-Oct-20	14-Oct-20	100%	0	\$0	Mark Crofford															
P03.04.03.03 Procure/Fab - Arc Detectors - (NEP34330)		15-Oct-20 A	19-Apr-22	15-Oct-20	07-Mar-22		218	\$420,780																
P03.04.03.03.01 Arc Detectors		15-Oct-20 A	19-Apr-22	15-Oct-20	07-Mar-22		120	\$380,550																
P343P16	Prepare SOW and Tech Spec for Arc detector	15-Oct-20 A	30-Oct-20 A	15-Oct-20	30-Oct-20	100%	0	\$0	Mark Crofford															
P343P46	Procurement Readiness Review (PRR) for arc detectors	02-Nov-20 A	06-Nov-20 A	02-Nov-20	06-Nov-20	100%	0	\$232	Mark Crofford															
P343MS56	Technical Package to Procurement for arc detectors (MS)		11-Dec-20 A		06-Nov-20	100%	0	\$0	Mark Crofford															
P343P66	Procurement Review and Bid for arc detectors	14-Dec-20 A	04-Jan-21 A	09-Nov-20	01-Dec-20	100%	0	\$386	Mark Crofford															
P343MS76	Issue RFP for arc detectors (MS)		04-Jan-21 A		01-Dec-20	100%	0	\$0	Mark Crofford															
P343P86	Solicitation Period for arc detectors	04-Jan-21 A	01-Feb-21 A	02-Dec-20	20-Jan-21	100%	0	\$2,781	Mark Crofford															
P343P21	Review and Award Contract for arc detectors	05-Jan-21 A	03-Feb-21 A	21-Jan-21	10-Feb-21	100%	0	\$2,526	Mark Crofford															
P343MS106	Solicitation Complete for arc detectors (MS)		01-Feb-21 A		20-Jan-21	100%	0	\$0	Mark Crofford															
P343P116	Award Contract for arc detectors (MS)		03-Feb-21 A		10-Feb-21	100%	0	\$0	Mark Crofford															
P343P24	Fabrication of arc detectors	04-Feb-21 A	14-May-21 A	11-Feb-21	02-Aug-21	100%	0	\$0	Mark Crofford															
P343P31	Receive, Inspect and Store arc detectors	14-May-21 A	28-May-21 A	03-Aug-21	23-Aug-21	100%	0	\$373,197	Mark Crofford															
P343P36	Deliver arc detectors for installation (Phase 1)	19-Oct-21	01-Nov-21	17-Sep-21	30-Sep-21	0%	10	\$476	Mark Crofford															
P343P45	Deliver arc detectors for installation (Phase 2)	04-Jan-22	18-Jan-22	10-Nov-21	23-Nov-21	0%	10	\$476	Mark Crofford															
P343P50	Deliver arc detectors for installation (Phase 3)	05-Apr-22	19-Apr-22	22-Feb-22	07-Mar-22	0%	10	\$476	Mark Crofford															
P03.04.03.03.02 Arc test boxes		01-Feb-21 A	18-Jun-21	11-Feb-21	18-Jun-21		14	\$40,230																
P343P126	Procure arc test boxes (All)	01-Feb-21 A	05-Mar-21 A	11-Feb-21	24-Feb-21	100%	0	\$4,131	Mark Crofford															
P343P41	Fabrication of arc test boxes (All)	08-Mar-21 A	16-Apr-21 A	25-Feb-21	20-May-21	100%	0	\$0	Mark Crofford															

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
P351M62	WBS Management P.3.5.2 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P351M74	WBS Management P.3.5.3 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P351M90	WBS Management P.3.5.5 FY18 (May Through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P351M80	WBS Management P.3.5.4 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P351M6	WBS Management P.3.5 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Chris Pappas															
P351M11	WBS Management P.3.5 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas															
P351M65	WBS Management P.3.5.2 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas															
P351M76	WBS Management P.3.5.3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas															
P351M82	WBS Management P.3.5.4 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas															
P351M92	WBS Management P.3.5.5 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Chris Pappas															
P351M600	WBS Management P.3.5.6 FY19 (LOE) (Apr19-Aug19)	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Chris Pappas															
P351M11B	WBS Management P.3.5 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Chris Pappas															
P351M76B	WBS Management P.3.5.3 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Chris Pappas															
P351M76C	WBS Management P.3.5.3 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Chris Pappas															
P351M11C	WBS Management P.3.5 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Chris Pappas															
P351M600C	WBS Management P.3.5.6 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Chris Pappas															
P351M16	WBS Management P.3.5 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Chris Pappas															
P351M605	WBS Management P.3.5.6 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Chris Pappas															
P351M16a	WBS Management P.3.5 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Chris Pappas															
P351M605a	WBS Management P.3.5.6 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Chris Pappas															
P351M21	WBS Management P.3.5 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Chris Pappas															
P351M610	WBS Management P.3.5.6 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Chris Pappas															
P351M21a	WBS Management P.3.5 FY21 (LOE) Part 2 (Nov20 - Dec20)	02-Nov-20 A	31-Dec-20 A	02-Nov-20	18-Dec-20	100%	0	\$4,312	Chris Pappas															
P351M610a	WBS Management P.3.5.6 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$26,637	Chris Pappas															
P351M21b	WBS Management P.3.5 FY21 (LOE) Part 2 (Jan21 - Sep21)	04-Jan-21 A	30-Sep-21	04-Jan-21	30-Sep-21	54.5%	86	\$21,514	Chris Pappas															
P351M26	WBS Management P.3.5 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$29,939	Chris Pappas															
P351M615	WBS Management P.3.5.6 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$19,959	Chris Pappas															
P351M128	WBS Management P.3.5 FY23 (LOE)	03-Oct-22	18-Jul-23	03-Oct-22	18-Jul-23	0%	193	\$24,904	Chris Pappas															
P351M625	WBS Management P.3.5.6 FY23 (LOE)	03-Oct-22	18-Jul-23	03-Oct-22	18-Jul-23	0%	193	\$15,772	Chris Pappas															
P.03.05.04 Modulator System Test Article Development and Testing		01-Jun-18 A	31-May-19 A	01-Jun-18	31-May-19		0	\$0																
P.03.05.04.02 Design - Modulator System Test Article Development and Testing - (NEP35420)		01-Jun-18 A	31-May-19 A	01-Jun-18	31-May-19		0	\$0																
P354D30	Solicit bids and award contract for transformer components (X3) for test article	01-Jun-18 A	01-Aug-18 A	01-Jun-18	01-Aug-18	100%	0	\$0	Chris Pappas															
P354D40	Procure and receive boost transformers (X3) for test article - Part 1	01-Jun-18 A	28-Sep-18 A	01-Jun-18	28-Sep-18	100%	0	\$0	Chris Pappas															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Fiscal Year Breakdown																											
										FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29														
P355D210	Install SCR cabinet	01-Apr-19A	12-Apr-19A	01-Apr-19	12-Apr-19	100%	0	\$0	Chris Pappas																												
P355D230	Safety Enclosure - Install enclosure in position	23-Apr-19A	25-Apr-19A	23-Apr-19	25-Apr-19	100%	0	\$0	Chris Pappas																												
P355D255	Cap Racks - Install cap racks	26-Apr-19A	31-May-19A	26-Apr-19	31-May-19	100%	0	\$0	Chris Pappas																												
P355D195	HVCM Tank - Install basket in tank	05-Jun-19A	05-Jun-19A	05-Jun-19	05-Jun-19	100%	0	\$0	Chris Pappas																												
P355D200	Install controller	05-Jun-19A	19-Jun-19A	05-Jun-19	19-Jun-19	100%	0	\$0	Chris Pappas																												
P355D215	Install tank into enclosure	17-Jun-19A	26-Jun-19A	17-Jun-19	26-Jun-19	100%	0	\$0	Chris Pappas																												
P355D250	Wire controls	18-Jun-19A	19-Jun-19A	18-Jun-19	19-Jun-19	100%	0	\$0	Chris Pappas																												
P355D240	Terminate AC & DC power	25-Jun-19A	26-Jul-19A	25-Jun-19	26-Jul-19	100%	0	\$0	Chris Pappas																												
P355D225	Plumb system DI water	02-Jul-19A	15-Jul-19A	02-Jul-19	15-Jul-19	100%	0	\$0	Chris Pappas																												
P355D190	Connect interfaces and test	11-Jul-19 A	31-Jul-19A	11-Jul-19	31-Jul-19	100%	0	\$0	Chris Pappas																												
P355D245	Test/checkout (and integrate PPS)	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Chris Pappas																												
P355D245b	Test/checkout (and integrate PPS) - Continued	03-Sep-19 A	09-Oct-19 A	03-Sep-19	09-Oct-19	100%	0	\$0	Chris Pappas																												
P355MS02	RFAX-Mod1 HVCM ready to support PPU development and testing activities (MS)		09-Oct-19 A		09-Oct-19	100%	0	\$0	Chris Pappas																												
P355D247	Correction of Missing Actuals (AP erroneously marked old PO not recvd Pre-baseline, then corrected to Received in May)	01-Jun-20 A	01-Jun-20 A	01-Jun-20	01-Jun-20	100%	0	\$0	Chris Pappas																												
P03.05.06 Upgrade RFQ/DTL Modulators		01-Apr-19A	19-Jul-23	01-Apr-19	19-Jul-23		527	\$1,878,007																													
P03.05.06.02 Design - Upgrade RFQ/DTL Modulators - (NEP35620)		01-Apr-19A	10-Dec-21	01-Apr-19	10-Dec-21		135	\$451,186																													
P03.05.06.02.01 Conceptual Design		01-Apr-19A	06-Dec-19A	01-Apr-19	06-Dec-19		0	\$0																													
P03.05.06.02.01.01 Analysis		01-Apr-19A	28-Jun-19A	01-Apr-19	28-Jun-19		0	\$0																													
P356D010	CKT Analysis - Optimization	01-Apr-19A	29-May-19A	01-Apr-19	29-May-19	100%	0	\$0	Chris Pappas																												
P356D020	CKT Analysis - Charging Supply	11-Apr-19 A	28-Jun-19A	11-Apr-19	28-Jun-19	100%	0	\$0	Chris Pappas																												
P03.05.06.02.01.02 Component Design		18-Apr-19A	06-Dec-19 A	18-Apr-19	06-Dec-19		0	\$0																													
P356D030	Pulse Transformer Preliminary Design	18-Apr-19A	20-May-19A	18-Apr-19	20-May-19	100%	0	\$0	Chris Pappas																												
P356D040	Resonant Peaking Capacitor Design	21-May-19A	14-Jun-19A	21-May-19	14-Jun-19	100%	0	\$0	Chris Pappas																												
P356D050	Semiconductor Selection	17-Jun-19A	24-Jun-19A	17-Jun-19	24-Jun-19	100%	0	\$0	Chris Pappas																												
P356D060	Output Choke Design	25-Jun-19A	27-Jun-19A	25-Jun-19	27-Jun-19	100%	0	\$0	Chris Pappas																												
P356D080	Mechanical Conceptual Design	27-Jun-19A	28-Jun-19A	27-Jun-19	28-Jun-19	100%	0	\$0	Chris Pappas																												
P356D070	Output Capacitor Design	09-Jul-19 A	19-Jul-19 A	09-Jul-19	19-Jul-19	100%	0	\$0	Chris Pappas																												
P03.05.06.02.01.02.01 Preliminary Design Review		17-Jun-19A	06-Dec-19 A	17-Jun-19	06-Dec-19		0	\$0																													
P356D090	Preparation & PDR for RFQ-Mod1Upgrade	17-Jun-19A	08-Jul-19A	17-Jun-19	08-Jul-19	100%	0	\$0	Chris Pappas																												
P356D100	PDR Response for RFQ-Mod1Upgrade	09-Jul-19 A	30-Aug-19 A	09-Jul-19	30-Aug-19	100%	0	\$0	Chris Pappas																												
P356D100I	PDR Response for RFQ-Mod1Upgrade - Continued	03-Sep-19 A	06-Dec-19 A	03-Sep-19	06-Dec-19	100%	0	\$0	Chris Pappas																												
P03.05.06.02.02 High Voltage Tank		21-Jun-19A	14-Sep-21	21-Jun-19	23-Jun-21		74	\$68,162																													
P03.05.06.02.02.01 Electronic Design		21-Jun-19A	20-May-20 A	21-Jun-19	20-May-20		0	\$0																													

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P356D1233	Receive - Series Choke	10-Nov-21	10-Nov-21	10-Nov-21	10-Nov-21	0%	1	\$11,235	Chris Pappas															
P356D1243	Install - Series Choke	11-Nov-21	24-Nov-21	11-Nov-21	24-Nov-21	0%	10	\$11,461	Chris Pappas															
P356D1253	Test - Series Choke	29-Nov-21	10-Dec-21	29-Nov-21	10-Dec-21	0%	10	\$8,905	Chris Pappas															
P03.05.06.03 Procure/Fab - Upgrade RFQ/DTL Modulators - (NEP35630)		01-Dec-20 A	06-May-22	16-Nov-20	06-May-22		223	\$927,635																
P03.05.06.03.01 Serial Chokes		13-Dec-21	28-Mar-22	13-Dec-21	28-Mar-22		68	\$34,200																
P356P1158	Procure Series Chokes	13-Dec-21	14-Dec-21	13-Dec-21	14-Dec-21	0%	2	\$495	Chris Pappas															
P356P1168	Fabricate Series Chokes	15-Dec-21	25-Mar-22	15-Dec-21	25-Mar-22	0%	65	\$0	Chris Pappas															
P356P1198	Receive Series Chokes	28-Mar-22	28-Mar-22	28-Mar-22	28-Mar-22	0%	1	\$33,705	Chris Pappas															
P03.05.06.03.07 HV Receptalces Procurement		13-Dec-21	24-Mar-22	09-Jun-21	24-Mar-22		66	\$100,378																
P356P1135	Procure boost transformer windings	13-Dec-21	14-Dec-21	09-Jun-21	10-Jun-21	0%	2	\$1,169	Chris Pappas															
P356P1134	Fabricate boost transformer windings	15-Dec-21	23-Mar-22	11-Jun-21	23-Mar-22	0%	63	\$0	Chris Pappas															
P356P1137	Fabrication of boost transformer windings complete (MS)		23-Mar-22		23-Mar-22	0%	0	\$0	Chris Pappas															
P356P1138	Receive boost transformer windings	24-Mar-22	24-Mar-22	24-Mar-22	24-Mar-22	0%	1	\$99,208	Chris Pappas															
P03.05.06.03.08 Resonant capacitors and Free-Wheeling Diodes Procurement		18-Jun-21	06-May-22	18-Jun-21	06-May-22		218	\$141,854																
P356P740	Procure resonant capacitors	18-Jun-21	09-Jul-21	18-Jun-21	09-Jul-21	0%	15	\$462	Chris Pappas															
P356P1060	Procure resonant cap assembly hardware	25-Jun-21	16-Jul-21	25-Jun-21	16-Jul-21	0%	15	\$2,713	Chris Pappas															
P356P1064	Procure free-wheeling diode assemblies	19-Jul-21	19-Jul-21	19-Jul-21	19-Jul-21	0%	1	\$1,229	Chris Pappas															
P356P1065	Fabricate free-wheeling diode assemblies	20-Jul-21	28-Sep-21	20-Jul-21	28-Sep-21	0%	50	\$0	Chris Pappas															
P356P1061	Fabricate resonant cap assembly hardware	11-Aug-21	03-Nov-21	11-Aug-21	03-Nov-21	0%	60	\$0	Chris Pappas															
P356P1066	Fabrication of free-wheeling diode assemblies complete (MS)	29-Sep-21	29-Sep-21	29-Sep-21	29-Sep-21	0%	0	\$0	Chris Pappas															
P356P1067	Receive free-wheeling diode assemblies	29-Sep-21	29-Sep-21	29-Sep-21	29-Sep-21	0%	1	\$21,642	Chris Pappas															
P356P1062	Fabrication of resonant cap assembly hardware complete (MS)	04-Nov-21	04-Nov-21	04-Nov-21	04-Nov-21	0%	0	\$0	Chris Pappas															
P356P1063	Receive resonant cap assembly hardware	04-Nov-21	04-Nov-21	04-Nov-21	04-Nov-21	0%	1	\$66,381	Chris Pappas															
P356P750	Fabricate resonant capacitors	13-Dec-21	05-May-22	13-Dec-21	05-May-22	0%	95	\$0	Chris Pappas															
P356P760	Fabrication of resonant capacitors complete (MS)		05-May-22		05-May-22	0%	0	\$0	Chris Pappas															
P356P770	Receive resonant capacitors	06-May-22	06-May-22	06-May-22	06-May-22	0%	1	\$49,428	Chris Pappas															
P03.05.06.03.09 Rectifiers Procurement		20-Jul-21	17-Mar-22	20-Jul-21	17-Mar-22		162	\$298,589																
P356P820	Procure diode PCBs	20-Jul-21	20-Jul-21	20-Jul-21	20-Jul-21	0%	1	\$1,229	Chris Pappas															
P356P830	Fabricate diode PCBs	21-Jul-21	16-Mar-22	21-Jul-21	16-Mar-22	0%	160	\$0	Chris Pappas															
P356P1073	Procure rectifier assembly hardware	27-Jul-21	16-Aug-21	27-Jul-21	16-Aug-21	0%	15	\$2,713	Chris Pappas															
P356P1074	Fabricate rectifier assembly hardware	17-Aug-21	12-Oct-21	17-Aug-21	12-Oct-21	0%	40	\$0	Chris Pappas															
P356P1075	Fabrication of rectifier assembly hardware complete (MS)	13-Oct-21	13-Oct-21	13-Oct-21	13-Oct-21	0%	0	\$0	Chris Pappas															
P356P1076	Receive rectifier assembly hardware	13-Oct-21	13-Oct-21	13-Oct-21	13-Oct-21	0%	1	\$83,997	Chris Pappas															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P361M55	P.3.6.4 Integration Effort FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson															
P361M70	CAM management P.3.6.5 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson															
P361M82	P.3.6.6 Integration Effort FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	David E. Anderson															
P361M6	WBS Management P.3.6 FY18 (May through Sep) (Anderson)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson															
P361M35	P.3.6.2 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson															
P361M42	P.3.6.3 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson															
P361M56	P.3.6.4 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson															
P361M71	CAM management P.3.6.5 FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson															
P361M83	P.3.6.6 Integration Effort FY18 (May through Sep) (Solley)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	David E. Anderson															
P361M102	P.3.6.7 Integration Effort FY18 (Aug - Sep) (Solley)	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	David E. Anderson															
P361M11	WBS Management P.3.6 FY19 Anderson) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P361M37	P.3.6.2 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P361M44	P.3.6.3 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P361M58	P.3.6.4 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P361M73	CAM management P.3.6.5 FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P361M85	P.3.6.6 Integration Effort FY19 (Solley) (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	David E. Anderson															
P361M11B	WBS Management P.3.6 FY19 Anderson) (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	David E. Anderson															
P361M11C	WBS Management P.3.6 FY19 Anderson) (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	David E. Anderson															
P361M16	WBS Management P.3.6 FY20 (Anderson) (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	David E. Anderson															
P361M16a	WBS Management P.3.6 FY20 (Anderson) (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	David E. Anderson															
P361M21	WBS Management P.3.6 FY21 (Anderson) (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	David E. Anderson															
P361M21a	WBS Management P.3.6 FY21 (Anderson) (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$22,498	David E. Anderson															
P361M21b	WBS Management P.3.6 FY21 (Anderson) (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$31,062	David E. Anderson															
P361M26	WBS Management P.3.6 FY22 (Anderson) (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$55,703	David E. Anderson															
P361M003	P.3.5 and P.3.6 Organize and Verify Documentation for Phase 1 ARR	13-Sep-22	10-Oct-22	13-Sep-22	10-Oct-22	0%	20	\$13,530	David E. Anderson															
P361M31	WBS Management P.3.6 FY23 (Anderson) (LOE)	03-Oct-22	20-Dec-22	03-Oct-22	20-Dec-22	0%	55	\$5,099	David E. Anderson															
P361M002	P.3.5 and P.3.6 Organize and Verify Documentation for Phase 2 ARR	20-Jul-23	16-Aug-23	20-Jul-23	16-Aug-23	0%	20	\$13,906	David E. Anderson															
P361M001	P.3.5 and P.3.6 Organize and Verify Documentation for Phase 3 ARR	17-Apr-24	14-May-24	17-Apr-24	14-May-24	0%	20	\$14,464	David E. Anderson															
P.03.06.02 Transformer		23-May-19 A	15-Dec-21	23-May-19	15-Dec-21		138	\$1,280,195																
P.03.06.02.02 Design - Transformer - (NEP36220)		23-May-19 A	30-May-19 A	23-May-19	30-May-19		0	\$0																
P362D26	Review and modify current specification for transformer	23-May-19 A	30-May-19 A	23-May-19	30-May-19	100%	0	\$0	David E. Anderson															
P.03.06.02.03 Procure/Fab - Transformer and SCR (NEP36231)		02-Nov-20 A	15-Dec-21	02-Nov-20	15-Dec-21		138	\$1,266,477																
P362P68	Prep for and hold Procurement Readiness Review for Two 2 1350kVA Transformers and two SCR Systems	02-Nov-20 A	04-Nov-20 A	02-Nov-20	13-Nov-20	100%	0	\$4,972	David E. Anderson															

Table with columns: Activity ID, Activity Name, Start, Finish, BL Start, BL Finish, % Complete, Rem Dur, Budgeted Total Cost, CAM, and fiscal years FY2016-FY2029. Rows include activities like Process Sole Source Procurement of Two 1350kVA Transformers and Fabricate Transformers and SCRs to MS 2.

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	Funding Schedule																									
										FY2016		FY2017		FY2018		FY2019		FY2020		FY2021		FY2022		FY2023		FY2024		FY2025		FY2026		FY2027		FY2028	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P03.06.02.04 Installation - Transformer																																			
P03.06.02.04.01 Phase 1 Installation																																			
P362I66	Relocate and site transformer SCL-MOD-30	26-Jul-21	28-Jul-21	18-Aug-21	20-Aug-21	0%	3	\$4,529	David E. Anderson																										
P362MS76	Transformer Ready for Integrated Testing SCL-MOD-30 (MS)		30-Jul-21		24-Aug-21	0%	0	\$0	David E. Anderson																										
P03.06.02.04.02 Phase 2 Installation																																			
P362I67	Relocate and site transformer SCL-MOD-28	26-Jul-21	28-Jul-21	18-Aug-21	20-Aug-21	0%	3	\$4,529	David E. Anderson																										
P362MS77	Transformer Ready for Integrated Testing SCL-MOD-28 (MS)		30-Jul-21		24-Aug-21	0%	0	\$0	David E. Anderson																										
P03.06.02.04.03 Phase 3 Installation																																			
P362I68	Relocate and site transformer SCL-MOD-25	23-Nov-21	29-Nov-21	29-Nov-21	01-Dec-21	0%	3	\$4,661	David E. Anderson																										
P362MS78	Transformer Ready for Integrated Testing SCL-MOD-25 (MS)		01-Dec-21		03-Dec-21	0%	0	\$0	David E. Anderson																										
P03.06.03 SCR System																																			
P03.06.03.02 Design - SCR System - (NEP36320)																																			
P363D91	Generate utilities interface document for standard SCR system.	01-Apr-19 A	12-Apr-19 A	01-Apr-19	12-Apr-19	100%	0	\$0	David E. Anderson																										
P363D364	Fab ORNL Supplied SCR PCBs	03-Feb-20 A	13-Feb-20 A	03-Feb-20	13-Feb-20	100%	0	\$0	David E. Anderson																										
P03.06.03.03 Procure/Fab- SCR System ((NEP36331)																																			
P363P56	Process Sole Source Procurement of Two Standard SCR Systems	16-Nov-20 A	18-Dec-20 A	16-Nov-20	12-Jan-21	100%	0	\$15,762	David E. Anderson																										
P03.06.03.04 Installation - SCR System																																			
P03.06.03.04.01 Phase 1 Installation																																			
P363I261	Install switch gear operator & E-stop and wire for SCL-MOD-30	24-Aug-21	26-Aug-21	25-Aug-21	27-Aug-21	0%	3	\$9,999	David E. Anderson																										
P363I271	Check plumbing for water leaks for SCL-MOD-30 SCR	14-Feb-22	14-Feb-22	15-Dec-21	15-Dec-21	0%	1	\$232	David E. Anderson																										
P363MS281	SCR Ready for Integrated Testing SCL-MOD-30 (MS)		18-Feb-22		05-Jan-22	0%	0	\$0	David E. Anderson																										
P363I276	Energize SCR units to verify control functions for SCL-MOD-30	22-Feb-22	24-Feb-22	06-Jan-22	10-Jan-22	0%	3	\$12,453	David E. Anderson																										
P03.06.03.04.02 Phase 2 Installation																																			
P363I201	Install switch gear operator & E-stop and wire for SCL-MOD-28	03-Jan-22	05-Jan-22	03-Jan-22	05-Jan-22	0%	3	\$10,280	David E. Anderson																										
P363I211	Check plumbing for water leaks for SCL-MOD-28 SCR	10-Jan-22	10-Jan-22	10-Jan-22	10-Jan-22	0%	1	\$232	David E. Anderson																										
P363MS282	SCR Ready for Integrated Testing SCL-MOD-28 (MS)		19-Jul-22		19-Jul-22	0%	0	\$0	David E. Anderson																										
P363I216	Energize SCR units to verify control functions for SCL-MOD-28	20-Jul-22	22-Jul-22	20-Jul-22	22-Jul-22	0%	3	\$10,084	David E. Anderson																										
P03.06.03.04.03 Phase 3 Installation																																			
P363I141	Install switch gear operator & E-stop and wire for SCL-MOD-25	09-Mar-22	11-Mar-22	26-Jan-22	28-Jan-22	0%	3	\$10,280	David E. Anderson																										
P363I151	Check plumbing for water leaks for SCL-MOD-25 SCR	16-Mar-22	16-Mar-22	02-Feb-22	02-Feb-22	0%	1	\$232	David E. Anderson																										
P363MS283	SCR Ready for Integrated Testing SCL-MOD-25 (MS)		21-Sep-22		21-Sep-22	0%	0	\$0	David E. Anderson																										
P363I156	Energize SCR units to verify control functions for SCL-MOD-25	04-Oct-22	06-Oct-22	04-Oct-22	06-Oct-22	0%	3	\$10,467	David E. Anderson																										
P03.06.04 Modulator System																																			
		01-Oct-18 A	04-Oct-22	01-Oct-18	04-Oct-22		335	\$1,499,280																											

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
P3651146	Provide HVCM Control Rack Specs (like RFAX-Mod1) to Bamett	01-Oct-19 A	02-Oct-19 A	01-Oct-19	02-Oct-19	100%	0	\$0	David E. Anderson																			
P365D66	Design and Prototype new digital module	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	David E. Anderson																			
P365D36c	Review current BOM and drawings, correct as necessary (Apr20>)	01-Apr-20 A	15-Jul-20 A	01-Apr-20	15-Jul-20	100%	0	\$0	David E. Anderson																			
P365D66a	Design and Prototype new digital module (Apr20>)	01-Apr-20 A	20-Apr-20 A	01-Apr-20	20-Apr-20	100%	0	\$0	David E. Anderson																			
P365D76a	Design and Prototype NewAux I/O Module (Apr20>)	21-Apr-20 A	11-Jun-20 A	21-Apr-20	11-Jun-20	100%	0	\$0	David E. Anderson																			
P365D86	Modify Program	12-Jun-20 A	30-Oct-20 A	12-Jun-20	30-Oct-20	100%	0	\$0	David E. Anderson																			
P365D46	DCN for 3 modulator installations	30-Nov-20 A	18-Dec-20 A	30-Nov-20	08-Jan-21	100%	0	\$11,595	David E. Anderson																			
P03.06.05.03 Procure/Fab - Modulator Control System - (NEP36530)		11-Nov-20 A	29-Jun-21	11-Nov-20	17-May-21		21	\$464,934																				
P365P410	Prep for Procurement Readiness Review (PRR) for Modulator Controls	11-Nov-20 A	24-Nov-20 A	11-Nov-20	24-Nov-20	100%	0	\$7,761	David E. Anderson																			
P365P420	Procurement Readiness Review for Modulator Controls	25-Nov-20 A	25-Nov-20 A	25-Nov-20	25-Nov-20	100%	0	\$995	David E. Anderson																			
P03.06.05.03.01 PPIC and Power Distribution chassis		05-Jan-21 A	21-Jun-21	11-Feb-21	17-May-21		15	\$41,611																				
P365P320	Procure PPIC and Power Distribution chassis	05-Jan-21 A	18-Feb-21 A	11-Feb-21	18-Feb-21	100%	0	\$9,027	David E. Anderson																			
P365P330	Fabricate PPIC and Power Distribution chassis	01-Mar-21 A	18-Jun-21	19-Feb-21	14-May-21	80%	14	\$0	David E. Anderson																			
P365P340	Fabrication of PPIC and Power Distribution chassis Complete (MS)		18-Jun-21		14-May-21	0%	0	\$0	David E. Anderson																			
P365P332	Receive PPIC and Power Distribution chassis	21-Jun-21	21-Jun-21	17-May-21	17-May-21	0%	1	\$32,584	David E. Anderson																			
P03.06.05.03.02 Fabricate PS and Aux I/O chassis		19-Jan-21 A	17-May-21 A	19-Jan-21	23-Apr-21		0	\$25,490																				
P365P357	Procure PS and Aux I/O chassis	19-Jan-21 A	27-Jan-21 A	19-Jan-21	27-Jan-21	100%	0	\$8,365	David E. Anderson																			
P365P360	Fabricate PS and Aux I/O chassis	27-Jan-21 A	14-May-21 A	27-Jan-21	22-Apr-21	100%	0	\$0	David E. Anderson																			
P365P363	Fabrication of PS and Aux I/O chassis Complete (MS)		14-May-21 A		22-Apr-21	100%	0	\$0	David E. Anderson																			
P365P362	Receive PS and Aux I/O chassis	17-May-21 A	17-May-21 A	22-Apr-21	23-Apr-21	100%	0	\$17,125	David E. Anderson																			
P03.06.05.03.03 Fabricate Digital and Analog Modules		19-Jan-21 A	10-Jun-21	27-Jan-21	09-Apr-21		8	\$29,053																				
P365P371	Procure Digital Module Hardware and PCB	19-Jan-21 A	03-Feb-21 A	27-Jan-21	03-Feb-21	100%	0	\$5,628	David E. Anderson																			
P365P375	Procure Analog Module Hardware and PCB	01-Feb-21 A	05-Feb-21 A	03-Feb-21	10-Feb-21	100%	0	\$5,780	David E. Anderson																			
P365P372	Fabricate Digital Module Hardware and PCB	04-Feb-21 A	25-Feb-21 A	03-Feb-21	31-Mar-21	100%	0	\$0	David E. Anderson																			
P365P376	Fabricate Analog Module Hardware and PCB	05-Feb-21 A	17-Feb-21 A	10-Feb-21	08-Apr-21	100%	0	\$0	David E. Anderson																			
P365P377	Receive Analog Module Hardware and PCB	18-Feb-21 A	10-Jun-21	08-Apr-21	09-Apr-21	50%	8	\$8,822	David E. Anderson																			
P365P373	Receive Digital Module Hardware and PCB	26-Feb-21 A	26-Feb-21 A	31-Mar-21	01-Apr-21	100%	0	\$8,822	David E. Anderson																			
P03.06.05.03.04 PXI Hardware		11-Jan-21 A	29-Jan-21 A	11-Jan-21	03-Mar-21		0	\$262,447																				
P365P300	Procure PXI hardware	11-Jan-21 A	15-Jan-21 A	11-Jan-21	15-Jan-21	100%	0	\$1,974	David E. Anderson																			
P365P302	Fabricate PXI hardware	15-Jan-21 A	28-Jan-21 A	19-Jan-21	02-Mar-21	100%	0	\$0	David E. Anderson																			
P365P303	Fabricate PXI hardware Complete (MS)		28-Jan-21 A		02-Mar-21	100%	0	\$0	David E. Anderson																			
P365P304	Receive PXI hardware	29-Jan-21 A	29-Jan-21 A	03-Mar-21	03-Mar-21	100%	0	\$260,473	David E. Anderson																			
P03.06.05.03.05 Other		04-Jan-21 A	29-Jun-21	10-Feb-21	22-Mar-21		21	\$97,579																				

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
P366D31B	Review Cable diagrams/pull lists and correct/modify - Continued from 90%	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	David E. Anderson														
P366D26	Review interface diagrams and correct/modify to represent AT-HVCM topology	01-Feb-19 A	29-Mar-19 A	01-Feb-19	29-Mar-19	100%	0	\$0	David E. Anderson														
P366D41	Review System Block Diagrams and Schematics and correct/modify	01-Apr-19 A	18-Apr-19 A	01-Apr-19	18-Apr-19	100%	0	\$0	David E. Anderson														
P366D46	Prep for AT-HVCM System Final Design Review (FDR)	22-Apr-19 A	20-May-19 A	22-Apr-19	20-May-19	100%	0	\$0	David E. Anderson														
P366D76	AT-HVCM System Final Design Review (FDR) (21-May-19)	21-May-19 A	22-May-19 A	21-May-19	22-May-19	100%	0	\$0	David E. Anderson														
P366MS86	Complete AT-HVCM - Final Design Review Meeting (MS)		22-May-19 A		22-May-19	100%	0	\$0	David E. Anderson														
P366D56	AT-HVCM FDR action item response time	23-May-19 A	23-Aug-19 A	23-May-19	23-Aug-19	100%	0	\$0	David E. Anderson														
P366D61	Review test procedures and update to reflect AT-HVCM configuration	17-Jun-19 A	30-Aug-19 A	17-Jun-19	30-Aug-19	100%	0	\$0	David E. Anderson														
P366D66	Specify test equipment requirements	16-Aug-19 A	22-Aug-19 A	16-Aug-19	22-Aug-19	100%	0	\$0	David E. Anderson														
P366D61b	Review test procedures and update to reflect AT-HVCM configuration - Continued	03-Sep-19 A	16-Sep-19 A	03-Sep-19	16-Sep-19	100%	0	\$0	David E. Anderson														
P03.06.06.03 Procure/Fab - Integrated System - (NEP36630)		24-May-21 A	25-May-21 A	23-Mar-21	05-May-21	0	0	\$0															
P366P71	Order and receive test equipment	24-May-21 A	24-May-21 A	23-Mar-21	04-May-21	100%	0	\$13,621	David E. Anderson														
P366P71a	Order and receive test equipment - Adjustment Activity	25-May-21 A	25-May-21 A	05-May-21	05-May-21	100%	0	(\$13,621)	David E. Anderson														
P03.06.06.04 Installation - Integrated System		15-Feb-22	21-Dec-22	16-Dec-21	21-Dec-22	216	216	\$206,770															
P03.06.06.04.01 Phase 1 Installation		15-Feb-22	01-Jul-22	16-Dec-21	01-Jul-22	97	97	\$75,029															
P366i186	Fill systems with oil, double check for leaks, gate drive test for SCL-MOD-30	15-Feb-22	16-Feb-22	16-Dec-21	17-Dec-21	0%	2	\$15,750	David E. Anderson														
P366i187	Test SCL-Mod30 cooling system and electronics	17-Feb-22	18-Feb-22	20-Dec-21	21-Dec-21	0%	2	\$2,833	David E. Anderson														
P366i206	Check CO2 system operation locally for SCL-MOD-30	21-Feb-22	22-Feb-22	22-Dec-21	03-Jan-22	0%	2	\$833	David E. Anderson														
P366i196	Install external resistive divider for calibration for SCL-MOD-30	23-Feb-22	23-Feb-22	06-Jan-22	06-Jan-22	0%	1	\$935	David E. Anderson														
P366i201	Perform signal generator timing fault, simulated for SCL-MOD-30	22-Apr-22	28-Apr-22	22-Apr-22	28-Apr-22	0%	5	\$11,544	David E. Anderson														
P366i216	Perform klystron arc protection verification for SCL-MOD-30	27-May-22	01-Jun-22	27-May-22	01-Jun-22	0%	3	\$6,593	David E. Anderson														
P366i211	Perform low duty cycle operation, adj. FPGA, pulse flatten, optimize pulse sequence, calibrate readbacks for SCL-MOD-30	02-Jun-22	15-Jun-22	02-Jun-22	15-Jun-22	0%	10	\$17,899	David E. Anderson														
P366i192	Final SCR system checkout under power SCL-MOD-30	16-Jun-22	17-Jun-22	16-Jun-22	17-Jun-22	0%	2	\$4,074	David E. Anderson														
P366i226	Operate SCL-MOD-30 modulator at full duty cycle	20-Jun-22	01-Jul-22	20-Jun-22	01-Jul-22	0%	10	\$14,568	David E. Anderson														
P366IMS003	Turn SCL-MOD-30 over for operations (MS)		01-Jul-22		01-Jul-22	0%	0	\$0	David E. Anderson														
P03.06.06.04.02 Phase 2 Installation		03-May-22	05-Oct-22	16-Mar-22	05-Oct-22	109	109	\$65,006															
P366i131	Fill systems with oil, double check for leaks, gate drive test for SCL-MOD-28	03-May-22	04-May-22	16-Mar-22	17-Mar-22	0%	2	\$14,322	David E. Anderson														
P366i132	Test SCL-Mod28 cooling system and electronics	05-May-22	06-May-22	18-Mar-22	21-Mar-22	0%	2	\$2,833	David E. Anderson														
P366i151	Check CO2 system operation locally for SCL-MOD-28	09-May-22	10-May-22	22-Mar-22	23-Mar-22	0%	2	\$476	David E. Anderson														
P366i141	Install external resistive divider for calibration for SCL-MOD-28	20-Jul-22	20-Jul-22	20-Jul-22	20-Jul-22	0%	1	\$935	David E. Anderson														
P366i146	Perform signal generator timing fault, simulated for SCL-MOD-28	28-Jul-22	03-Aug-22	28-Jul-22	03-Aug-22	0%	5	\$10,116	David E. Anderson														
P366i161	Perform klystron arc protection verification for SCL-MOD-28	01-Sep-22	02-Sep-22	01-Sep-22	02-Sep-22	0%	2	\$5,879	David E. Anderson														
P366i156	Perform low duty cycle operation, adj. FPGA, pulse flatten, optimize pulse sequence, calibrate readbacks for SCL-MOD-28	06-Sep-22	19-Sep-22	06-Sep-22	19-Sep-22	0%	10	\$15,995	David E. Anderson														

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
P3661191	Final SCR system checkout under power SCL-MOD-28	20-Sep-22	21-Sep-22	20-Sep-22	21-Sep-22	0%	2	\$3,323	David E. Anderson															
P3661171	Operate SCL-MOD-28 modulator at full duty cycle	22-Sep-22	05-Oct-22	22-Sep-22	05-Oct-22	0%	10	\$11,127	David E. Anderson															
P366IMS002	Turn SCL-MOD-28 over for operations (MS)		05-Oct-22		05-Oct-22	0%	0	\$0	David E. Anderson															
P03.06.06.04.03 Phase 3 Installation		27-Sep-22	21-Dec-22	27-Sep-22	21-Dec-22		60	\$66,735																
P366176	Fill systems with oil, double check for leaks, gate drive test for SCL-MOD-25	27-Sep-22	28-Sep-22	27-Sep-22	28-Sep-22	0%	2	\$14,322	David E. Anderson															
P366177	Test SCL-Mod25 cooling system and electronics	29-Sep-22	30-Sep-22	29-Sep-22	30-Sep-22	0%	2	\$2,833	David E. Anderson															
P366196	Check CO2 system operation locally for SCL-MOD-25	03-Oct-22	04-Oct-22	03-Oct-22	04-Oct-22	0%	2	\$494	David E. Anderson															
P366186	Install external resistive divider for calibration for SCL-MOD-25	05-Oct-22	05-Oct-22	05-Oct-22	05-Oct-22	0%	1	\$962	David E. Anderson															
P366191	Perform signal generator timing fault, simulated for SCL-MOD-25	12-Oct-22	18-Oct-22	12-Oct-22	18-Oct-22	0%	5	\$10,515	David E. Anderson															
P3661106	Perform klystron arc protection verification for SCL-MOD-25	16-Nov-22	17-Nov-22	16-Nov-22	17-Nov-22	0%	2	\$6,112	David E. Anderson															
P3661101	Perform low duty cycle operation, adj. FPGA, pulse flatten, optimize pulse sequence, calibrate readbacks for SCL-MOD-25	18-Nov-22	05-Dec-22	18-Nov-22	05-Dec-22	0%	10	\$16,627	David E. Anderson															
P3661126	Final SCR system checkout under power SCL-MOD-25	06-Dec-22	07-Dec-22	06-Dec-22	07-Dec-22	0%	2	\$3,442	David E. Anderson															
P3661116	Operate SCL-MOD-25 modulator at full duty cycle	08-Dec-22	21-Dec-22	08-Dec-22	21-Dec-22	0%	10	\$11,428	David E. Anderson															
P366IMS001	Turn SCL-MOD-25 over for operations (MS)		21-Dec-22		21-Dec-22	0%	0	\$0	David E. Anderson															
P03.06.07 Modulator Test Article & Testing		17-Apr-18 A	30-Aug-19 A	17-Apr-18	30-Aug-19		0	\$0																
P03.06.07.02 Design - Modulator Test Article & Testing - (NEP36720)		17-Apr-18 A	30-Aug-19 A	17-Apr-18	30-Aug-19		0	\$0																
P367D150	Receive new bus assembly hardware. (MS)		17-Apr-18 A		17-Apr-18	100%	0	\$0	David E. Anderson			◆												
P367D160	Complete freewheeling diode assemblies (MS)		20-Apr-18 A		20-Apr-18	100%	0	\$0	David E. Anderson			◆												
P367D155	Receive new rectifier assembly hardware.	01-May-18 A	14-May-18 A	01-May-18	14-May-18	100%	0	\$0	David E. Anderson			■												
P367D175	Create BOM for oil cooling system.	01-May-18 A	25-Jun-18 A	01-May-18	25-Jun-18	100%	0	\$0	David E. Anderson			■												
P367D195	Create detailed test plan.	01-May-18 A	29-Jun-18 A	01-May-18	29-Jun-18	100%	0	\$0	David E. Anderson			■												
P367D200	Complete Design of the laminate bus alignment system	01-May-18 A	21-Sep-18 A	01-May-18	21-Sep-18	100%	0	\$0	David E. Anderson			■												
P367D205	Designer Available to work on AT-HVCM	02-May-18 A	02-May-18 A	02-May-18	02-May-18	100%	0	\$0	David E. Anderson			■												
P367D210	Design effort for flexible stub Eriflex option 1	02-May-18 A	27-Jul-18 A	02-May-18	27-Jul-18	100%	0	\$0	David E. Anderson			■												
P367D215	Design effort for flexible stub Cu sheet option 2	09-May-18 A	27-Jul-18 A	09-May-18	27-Jul-18	100%	0	\$0	David E. Anderson			■												
P367D165	Build and test sub-assemblies.	15-May-18 A	19-Jun-18 A	15-May-18	19-Jun-18	100%	0	\$0	David E. Anderson			■												
P367D185	Receive remaining parts for oil cooling system. (MS)		31-May-18 A		31-May-18	100%	0	\$0	David E. Anderson			◆												
P367D170	Pull tank from HEBT.	15-Jun-18 A	19-Jun-18 A	15-Jun-18	19-Jun-18	100%	0	\$0	David E. Anderson			■												
P367MS335	Complete build and test of new AT-HVCM sub assemblies (MS)		19-Jun-18 A		19-Jun-18	100%	0	\$0	David E. Anderson			◆												
P367D190	Reconfigure 3rd generation AT-HVCM tank.	20-Jun-18 A	09-Jul-18 A	20-Jun-18	09-Jul-18	100%	0	\$0	David E. Anderson			■												
P367D280	Return updated tank to HEBT.	10-Jul-18 A	12-Jul-18 A	10-Jul-18	12-Jul-18	100%	0	\$0	David E. Anderson			■												
P367D285	Test modulator to 60kV.	13-Jul-18 A	17-Jul-18 A	13-Jul-18	17-Jul-18	100%	0	\$0	David E. Anderson			■												
P367MS002	Solley Returns from his 7/2 to - 7/17 vacation	17-Jul-18 A	17-Jul-18 A	17-Jul-18	17-Jul-18	100%	0	\$0	David E. Anderson			■												

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
P367D290	Spark gap testing at 80kV to verify fault energy.	18-Jul-18 A	19-Jul-18 A	18-Jul-18	19-Jul-18	100%	0	\$0	David E. Anderson														
P367D295	Test modulator per phase 1 test plan.	20-Jul-18 A	28-Sep-18 A	20-Jul-18	28-Sep-18	100%	0	\$0	David E. Anderson														
P367D220	Quote & Fabricate stub option 1	30-Jul-18 A	13-Sep-18 A	30-Jul-18	13-Sep-18	100%	0	\$0	David E. Anderson														
P367D225	Quote & Fabricate stub option 2	30-Jul-18 A	13-Sep-18 A	30-Jul-18	13-Sep-18	100%	0	\$0	David E. Anderson														
P367D265	Order and Receive capacitor bank plates. - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	David E. Anderson														
P367D245	Check Design Capacitor Bank Plates.	10-Aug-18 A	28-Aug-18 A	10-Aug-18	28-Aug-18	100%	0	\$0	David E. Anderson														
P367D250	Mini review laminate bus alignment system/capacitor bus plates/ flexible bus stub.	14-Aug-18 A	14-Sep-18 A	14-Aug-18	14-Sep-18	100%	0	\$0	David E. Anderson														
P367MS295	Complete Phase 1 Testing of New Modulator (MS)		28-Sep-18 A		28-Sep-18	100%	0	\$0	David E. Anderson														
P367D255	Incorporate mini review design changes	01-Oct-18 A	09-Oct-18 A	01-Oct-18	09-Oct-18	100%	0	\$0	David E. Anderson														
P367D265B	Order and Receive capacitor bank plates. - Continued from 5%	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	100%	0	\$0	David E. Anderson														
P367D235	Evaluate options 1 and 2 (hi pot, flex, ripple, temp)	10-Oct-18 A	06-Nov-18 A	10-Oct-18	06-Nov-18	100%	0	\$0	David E. Anderson														
P367D260	Order and Receive laminate bus alignment system.	10-Oct-18 A	13-Nov-18 A	10-Oct-18	13-Nov-18	100%	0	\$0	David E. Anderson														
P367D305	Run modulator at full power for > 30 days. Collect data specified in phase 2 test plan.	30-Nov-18 A	21-Jan-19 A	30-Nov-18	21-Jan-19	100%	0	\$0	David E. Anderson														
P367D237	Procure and Receive Material For Option 3	02-Jan-19 A	25-Feb-19 A	02-Jan-19	25-Feb-19	100%	0	\$0	David E. Anderson														
P367MS305	Complete Phase 2 Testing of New Modulator (MS)		21-Jan-19 A		21-Jan-19	100%	0	\$0	David E. Anderson														
P367D300	Install laminated bus alignment system/bus stub/cap bank plates.	28-Jan-19 A	07-Mar-19 A	28-Jan-19	07-Mar-19	100%	0	\$0	David E. Anderson														
P367D310	Analyze AT+VCM results and compare with HVCM. 50%	08-Feb-19 A	29-Mar-19 A	08-Feb-19	29-Mar-19	100%	0	\$0	David E. Anderson														
P367D315	Design, order additional test article components, and test to address any issues	15-Feb-19 A	29-Mar-19 A	15-Feb-19	29-Mar-19	100%	0	\$0	David E. Anderson														
P367D230	Integrate options 1, 2 and 3 on test stand	01-Mar-19 A	04-Mar-19 A	01-Mar-19	04-Mar-19	100%	0	\$0	David E. Anderson														
P367MS240	Select option 1, 2 or 3 or down select to rigid stub (MS)		04-Mar-19 A		04-Mar-19	100%	0	\$0	David E. Anderson														
P367D310B	Analyze AT+VCM results and compare with HVCM. - Continued	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	David E. Anderson														
P367D315B	Design, order additional test article components, and test to address any issues - Continued	01-Apr-19 A	31-May-19 A	01-Apr-19	31-May-19	100%	0	\$0	David E. Anderson														
P367D330	Run second test	22-Apr-19 A	30-Aug-19 A	22-Apr-19	30-Aug-19	100%	0	\$0	David E. Anderson														
P367D199	Create alignment system assembly drawings	01-May-19 A	07-Jun-19 A	01-May-19	07-Jun-19	100%	0	\$0	David E. Anderson														
P367D320	Conduct selection review, comparing old and new topologies.	14-May-19 A	20-May-19 A	14-May-19	20-May-19	100%	0	\$0	David E. Anderson														
P367MS325	Select New or Old Topology Option (MS)		20-May-19 A		20-May-19	100%	0	\$0	David E. Anderson														
P03.07 Utilities		03-Oct-16 A	17-May-24	03-Oct-16	17-May-24		733	\$6,079,482															
P03.07.01 Management and System Integration - Utilities		03-Oct-16 A	16-May-24	03-Oct-16	16-May-24		732	\$1,104,496															
P03.07.01.01 Management and System Integration - Utilities - (NEP37110)		03-Oct-16 A	16-May-24	03-Oct-16	16-May-24		732	\$1,104,496															
P371M1	WBS Management P.3.7 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Greg Noman														
P371M335	P.3.7.7 CAM management FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Greg Noman														
P371M340	P.3.7.7 CAM management FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Greg Noman														
P371M4	WBS Management P.3.7 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Greg Noman														

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
P371M6	WBS Management P.3.7 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Greg Noman														
P371M345	P.3.7.7 CAM management FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Greg Noman														
P371M11	WBS Management P.3.7 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Greg Noman														
P371M350	P.3.7.7 CAM management FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Greg Noman														
P371M350B	P.3.7.7 CAM management FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Noman														
P371M11B	WBS Management P.3.7 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Noman														
P371M11C	WBS Management P.3.7 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Greg Noman														
P371M350C	P.3.7.7 CAM management FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Greg Noman														
P371M16	WBS Management P.3.7 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Noman														
P371M355	P.3.7.7 CAM management FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Noman														
P371M355a	P.3.7.7 CAM management FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Noman														
P371M16a	WBS Management P.3.7 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Noman														
P371M16b	WBS Management P.3.7 FY20 (LOE) (May20 - Sep20) (Smith)	01-May-20 A	30-Sep-20 A	01-May-20	30-Sep-20	100%	0	\$0	Greg Noman														
P371M21	WBS Management P.3.7 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Greg Noman														
P371M360	P.3.7.7 CAM management FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Greg Noman														
P371M21a	WBS Management P.3.7 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$96,595	Greg Noman														
P371M360a	P.3.7.7 CAM management FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$148,147	Greg Noman														
P371M363	P.3.7.7 Electrical Installation Coordinator (LOE) (Feb21-Sep21) FY21)	01-Feb-21 A	30-Sep-21	01-Feb-21	30-Sep-21	49.41%	86	\$217,308	Greg Noman														
P371M26	WBS Management P.3.7 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$108,772	Greg Noman														
P371M367	P.3.7.7 Electrical Installation Coordinator (LOE) (Oct21-May22) (FY22)	01-Oct-21	31-May-22	01-Oct-21	31-May-22	0%	161	\$219,604	Greg Noman														
P371M365	P.3.7.7 Electrical Installation Support (LOE) (Jun22-Sep22) (FY22)	01-Jun-22	30-Sep-22	01-Jun-22	30-Sep-22	0%	86	\$32,043	Greg Noman														
P371M003	P.3.7 Organize and Verify Documentation for Phase 1 ARR	13-Sep-22	10-Oct-22	13-Sep-22	10-Oct-22	0%	20	\$8,843	Greg Noman														
P371M370	P.3.7.7 Electrical Installation Support (LOE) (FY23)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$104,064	Greg Noman														
P371M31	WBS Management P.3.7 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$57,915	Greg Noman														
P371M002	P.3.7 Organize and Verify Documentation for Phase 2 ARR	16-Mar-23	13-Apr-23	16-Mar-23	13-Apr-23	0%	20	\$9,080	Greg Noman														
P371M35	WBS Management P.3.7 FY24 (LOE)	02-Oct-23	16-May-24	02-Oct-23	16-May-24	0%	154	\$43,669	Greg Noman														
P371M380	P.3.7.7 Electrical Installation Support (LOE) (FY24)	02-Oct-23	16-May-24	02-Oct-23	16-May-24	0%	154	\$49,025	Greg Noman														
P371M001	P.3.7 Organize and Verify Documentation for Phase 3 ARR	17-Apr-24	14-May-24	17-Apr-24	14-May-24	0%	20	\$9,430	Greg Noman														
P03.07.02	Water Utilities - New Cold Linac SCL RF Cooling System (KL-06)	02-Oct-17 A	12-Oct-22	02-Oct-17	12-Oct-22		341	\$912,222															
P372MS001	Complete preliminary design for cooling and electrical systems (MS)		12-Apr-18 A		12-Apr-18	100%	0	\$0	Greg Noman														
P372MS006	Complete final design of cooling and electrical systems (Predecessor is AE Design of the Klystron Gallery Upgrades) (MS)		29-Mar-19 A		29-Mar-19	100%	0	\$0	Greg Noman														
P03.07.02.02	Design - Water Utilities - New Cold Linac SCL RF Cooling System (KL-06) - (NEP37220)	02-Oct-17 A	31-Mar-22	02-Oct-17	31-Mar-22		206	\$135,249															
P372D21	Criteria Generation for Utilities System Design by AE	02-Oct-17 A	05-Dec-17 A	02-Oct-17	05-Dec-17	100%	0	\$0	Greg Noman														

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
P372D1	In-House Design (Prior to Title II Design)	01-Mar-18 A	12-Apr-18 A	01-Mar-18	12-Apr-18	100%	0	\$0	Greg Noman															
P372D11	Estimating and Schedule Support	01-Mar-18 A	12-Apr-18 A	01-Mar-18	12-Apr-18	100%	0	\$0	Greg Noman															
P372D16	Management Support of Title 1 Design Effort	01-Mar-18 A	12-Apr-18 A	01-Mar-18	12-Apr-18	100%	0	\$0	Greg Noman															
P372D046	Engineering Support for AE Design of RF Cooling Systems (LOE) - Part 1	01-Aug-18 A	28-Sep-18 A	01-Aug-18	28-Sep-18	100%	0	\$0	Greg Noman															
P372D046B	Engineering Support for AE Design of RF Cooling Systems (LOE) - Continued 65%	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Greg Noman															
P372D036	KL06 Preliminary Design Review (PDR) (with 60%AE Review)	07-Nov-18 A	07-Nov-18 A	07-Nov-18	07-Nov-18	100%	0	\$0	Greg Noman															
P372MS066	KL06 Preliminary Design Review (PDR) (MS)		07-Nov-18 A		07-Nov-18	100%	0	\$0	Greg Noman															
P372D046C	Engineering Support for AE Design of RF Cooling Systems (LOE) - Continued Part 3	01-Apr-19 A	30-Apr-19 A	01-Apr-19	30-Apr-19	100%	0	\$0	Greg Noman															
P372D041	KL06 Final Design Review (FDR)	10-May-19 A	10-May-19 A	10-May-19	10-May-19	100%	0	\$0	Greg Noman															
P372MS076	KL06 Final Design Review (FDR) Complete (MS)		10-May-19 A		10-May-19	100%	0	\$0	Greg Noman															
P372D001	Eng Support of RF Cooling Klystron Gallery Construction (LOE)	14-Jan-20 A	31-Mar-20 A	14-Jan-20	31-Mar-20	100%	0	\$0	Greg Noman															
P372D001a	Eng Support of RF Cooling Klystron Gallery Construction (LOE) (Apr20- Oct20)	01-Apr-20 A	30-Oct-20 A	01-Apr-20	30-Oct-20	100%	0	\$0	Greg Noman															
P372D001b	Eng Support of RF Cooling Klystron Gallery Construction FY21 (LOE) (Nov20 - Feb20)	02-Nov-20 A	04-Feb-21 A	02-Nov-20	04-Feb-21	100%	0	\$66,149	Greg Noman															
P372D46	Eng Support of RF Cooling T&M Utilities Installation FY21 (LOE) (Feb21 - Sep21)	05-Feb-21 A	30-Sep-21	05-Feb-21	30-Sep-21	48.19%	86	\$38,877	Greg Noman															
P372D56	Eng Support of RF Cooling T&M Utilities Installation FY22 (LOE) (Oct21 - Mar22)	01-Oct-21	31-Mar-22	01-Oct-21	31-Mar-22	0%	120	\$30,223	Greg Noman															
P03.07.02.04 Installation - Water Utilities - New Cold Linac SCL RF Cooling System (KL-06) - (NEP37240)		23-Apr-21 A	12-Oct-22	16-Apr-21	12-Oct-22		341	\$776,974																
P372MS390	Installation and successful functional testing of KL-06 deionized water system complete (MS)		12-Oct-22		12-Oct-22	0%	0	\$0	Greg Noman															
P03.07.02.04.01 Phase 1 Installation		28-May-21 A	11-Mar-22	16-Apr-21	27-Jan-22		192	\$296,563																
P372I770	Install Cooling Tie-Ins to Loads (30C through 32D) (Phase 1)	28-May-21 A	01-Sep-21	16-Apr-21	07-Jul-21	31%	66	\$132,225	Greg Noman															
P372I131	Install Cooling Tie-Ins to Circulators (30C through 32D) (Phase 1)	19-Aug-21	01-Sep-21	16-Jul-21	29-Jul-21	0%	10	\$34,674	Greg Noman															
P372I360	Install SCR Cooling Tie-in's (SCL-MOD-30)	24-Aug-21	30-Aug-21	25-Aug-21	31-Aug-21	0%	5	\$1,670	Greg Noman															
P372I320	Install HVCM Cooling Tie-in's (SCL-MOD-30)	09-Nov-21	22-Nov-21	12-Oct-21	25-Oct-21	0%	10	\$17,810	Greg Noman															
P372I800	Install TRCC Carts (XMTR-30 & 31)	12-Jan-22	21-Jan-22	11-Nov-21	19-Nov-21	0%	7	\$15,523	Greg Noman															
P372I830	Re-start KL-06 DI Water Cooling System	24-Jan-22	11-Feb-22	22-Nov-21	14-Dec-21	0%	15	\$5,164	Greg Noman															
P372I840	KL-06 Cooling System Controls Functional Testing	24-Jan-22	04-Feb-22	22-Nov-21	07-Dec-21	0%	10	\$20,169	Greg Noman															
P372I740	Install Cooling Tie-Ins to Klystrons (30A through 32D) (Phase 1)	07-Feb-22	04-Mar-22	14-Dec-21	20-Jan-22	0%	20	\$53,774	Greg Noman															
P372I196	System Testing and Checkout/Balancing (TRCC 31 & 30)	07-Mar-22	11-Mar-22	21-Jan-22	27-Jan-22	0%	5	\$15,555	Greg Noman															
P372MS016	Installation of Phase 1 Piping Complete (MS)		11-Mar-22		27-Jan-22	0%	0	\$0	Greg Noman															
P03.07.02.04.02 Phase 2 Installation		31-Aug-21	09-Aug-22	20-Jul-21	09-Aug-22		232	\$274,379																
P372I780	Install Cooling Tie-Ins to Loads (28B through 30B) (Phase 2)	31-Aug-21	19-Nov-21	20-Jul-21	08-Oct-21	0%	58	\$134,414	Greg Noman															
P372I301	Install Cooling Tie-Ins to Circulators (28B through 30B) (Phase 2)	08-Nov-21	19-Nov-21	27-Sep-21	08-Oct-21	0%	10	\$35,589	Greg Noman															
P372I370	Install SCR Cooling Tie-in's (SCL-MOD-28)	03-Jan-22	07-Jan-22	03-Jan-22	07-Jan-22	0%	5	\$1,714	Greg Noman															
P372I810	Install TRCC Carts (XMTR-28 & 27)	25-Mar-22	11-Apr-22	02-Mar-22	17-Mar-22	0%	12	\$15,523	Greg Noman															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P3721330	Install HVAC Cooling Tie-in's (SCL-MOD-28)	18-Apr-22	29-Apr-22	01-Mar-22	14-Mar-22	0%	10	\$17,810	Greg Noman															
P3721750	Install Cooling Tie-Ins to Klystrons (27A through 29D) (Phase 2)	06-Jul-22	02-Aug-22	06-Jul-22	02-Aug-22	0%	20	\$53,774	Greg Noman															
P3721216	System Testing and Checkout/Balancing (TRCC 28 & 27)	03-Aug-22	09-Aug-22	03-Aug-22	09-Aug-22	0%	5	\$15,555	Greg Noman															
P372MS021	Installation of Phase 2 Piping Complete (MS)		09-Aug-22		09-Aug-22	0%	0	\$0	Greg Noman															
P03.07.02.04.03 Phase 3 Installation		03-Dec-21	12-Oct-22	20-Oct-21	12-Oct-22		212	\$117,887																
P3721790	Install Cooling Tie-Ins to Loads (25A through 28A) (Phase 3)	03-Dec-21	03-Mar-22	20-Oct-21	20-Jan-22	0%	57	\$45,128	Greg Noman															
P3721380	Install SCR Cooling Tie-in's (SCL-MOD-25)	09-Mar-22	15-Mar-22	26-Jan-22	01-Feb-22	0%	5	\$1,714	Greg Noman															
P3721306	Install Cooling Tie-Ins to Circulators (25A through 28A) (Phase 3)	31-Mar-22	13-Apr-22	14-Apr-22	28-Apr-22	0%	10	\$11,863	Greg Noman															
P3721820	Install TRCC Cart (XMTR-25)	22-Apr-22	29-Apr-22	13-Apr-22	21-Apr-22	0%	6	\$7,761	Greg Noman															
P3721760	Install Cooling Tie-Ins to Klystrons (25A through 25D)	08-Sep-22	05-Oct-22	08-Sep-22	05-Oct-22	0%	20	\$17,531	Greg Noman															
P3721340	Install HVAC Cooling Tie-in's (SCL-MOD-25)	12-Sep-22	23-Sep-22	12-Sep-22	23-Sep-22	0%	10	\$17,810	Greg Noman															
P3721226	System Testing and Checkout/Balancing (TRCC 25)	06-Oct-22	12-Oct-22	06-Oct-22	12-Oct-22	0%	5	\$16,080	Greg Noman															
P372MS026	Installation of Phase 3 Piping Complete (MS)		12-Oct-22		12-Oct-22	0%	0	\$0	Greg Noman															
P03.07.02.04.04 Install UV Sterilizer		30-Jun-21	29-Jul-21	30-Jun-21	29-Jul-21		21	\$11,970																
P3721845	Receive UV Sterilizer (No cost)	30-Jun-21*	30-Jun-21	30-Jun-21	30-Jun-21	0%	1	\$0	Greg Noman															
P3721850	Modify Unistrut and mount UV Sterilizer	01-Jul-21	15-Jul-21	01-Jul-21	15-Jul-21	0%	10	\$1,186	Greg Noman															
P3721860	Fabricate and install pipe spools	16-Jul-21	22-Jul-21	16-Jul-21	22-Jul-21	0%	5	\$5,500	Greg Noman															
P3721870	Install conduit & wiring to PLC cabinet	16-Jul-21	29-Jul-21	16-Jul-21	29-Jul-21	0%	10	\$5,284	Greg Noman															
P03.07.02.04.05 Install HTW header thermal expansion compensators		03-May-21 A	14-Jun-21	03-May-21	22-Jun-21		10	\$17,781																
P3721880	Procure and Recieve GFE Materials: Thermal Expansion Compensators	03-May-21 A	28-May-21 A	03-May-21	08-Jun-21	100%	0	\$3,780	Greg Noman															
P3721890	Modify piping and install compensators	01-Jun-21	14-Jun-21	09-Jun-21	22-Jun-21	0%	10	\$14,001	Greg Noman															
P03.07.02.04.06 Flush KL-06 DI water system		23-Apr-21 A	13-Jul-21	23-Apr-21	15-Jun-21		30	\$58,393																
P3721920	Procure and Recieve Materials for Flushing	23-Apr-21 A	24-May-21 A	23-Apr-21	03-May-21	100%	0	\$20,822	Greg Noman															
P3721930	Flushing, Draining, and Drying Labor and Equipment Rental	25-May-21 A	14-Jun-21	04-May-21	17-May-21	5%	10	\$17,747	Greg Noman															
P3721950	Paint 8" S&R header in KL06 and HSB	15-Jun-21	28-Jun-21	18-May-21	01-Jun-21	0%	10	\$4,454	Greg Noman															
P3721960	Labor & Mat'l's for 10" DI Header Sway Brace and 8" cooling water piping Sway Brace	29-Jun-21	13-Jul-21	02-Jun-21	15-Jun-21	0%	10	\$15,370	Greg Noman															
P03.07.03 Water Utilities - Modify Existing RFQ/DTL RF Cooling System (KL-04)		15-Oct-18 A	12-Apr-23	15-Oct-18	12-Apr-23		460	\$547,197																
P03.07.03.02 Design - Water Utilities - Modify Existing RFQ/DTL RF Cooling System (KL-04) - (NEP37320)		15-Oct-18 A	11-Nov-21	15-Oct-18	16-Sep-21		60	\$14,020																
P373D1	Engineering Preliminary design to size equipment upgrades for KL-04 cooling system	15-Oct-18 A	26-Dec-18 A	15-Oct-18	26-Dec-18	100%	0	\$0	Greg Noman															
P373D11	KL04 Preliminary Design Review (PDR)	02-Jan-19 A	02-Jan-19 A	02-Jan-19	02-Jan-19	100%	0	\$0	Greg Noman															
P373D31	Engineering Final design to size equipment upgrades for KL-04 cooling system	02-Jan-19 A	29-Mar-19 A	02-Jan-19	29-Mar-19	100%	0	\$0	Greg Noman															
P373MS003	KL04 Preliminary Design Review (PDR) Complete (MS)		02-Jan-19 A		02-Jan-19	100%	0	\$0	Greg Noman															
P373D31B	Engineering Final design to size equipment upgrades for KL-04 cooling system - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Noman															

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
P373D31C	Engineering Final design to size equipment upgrades for KL-04 cooling system - Continued 2	03-Sep-19 A	23-Sep-19 A	03-Sep-19	23-Sep-19	100%	0	\$0	Greg Noman															
P373D21	KL04 Final Design Review (FDR)	24-Sep-19 A	24-Sep-19 A	24-Sep-19	24-Sep-19	100%	0	\$0	Greg Noman															
P373MS005	KL04 Final Design Review (FDR) Complete (MS)		24-Sep-19 A		24-Sep-19	100%	0	\$0	Greg Noman															
P373D41	Prepare Designs for Procurement	03-Aug-20 A	31-Aug-20 A	03-Aug-20	31-Aug-20	100%	0	\$0	Greg Noman															
P373D51	Create fab drawings for 3.0 MW klystron piping	19-Aug-21	11-Nov-21	23-Jun-21	16-Sep-21	0%	60	\$14,020	Greg Noman															
P03.07.03.03 Procure/Fab - Water Utilities - Modify Existing RFQ/DTL RF Cooling System (KL-04) - (NEP373)		29-Mar-21 A	15-Sep-22	29-Mar-21	15-Sep-22		322	\$298,392																
P373P21	Procure new pumps, motors, and bases for KL-04 (GFE)	29-Mar-21 A	19-Apr-21 A	29-Mar-21	19-Apr-21	100%	0	\$462	Greg Noman															
P373P76	Procure and Receive new Breaker, MCC, and VFD for KL-04 (GFE)	29-Mar-21 A	25-Jun-21	29-Mar-21	17-May-21	15%	19	\$38,332	Greg Noman															
P373P98	Procure and Receive new VFD Control Wiring & Hardware for KL-04 (GFE)	29-Mar-21 A	27-Aug-21	29-Mar-21	17-May-21	10%	63	\$2,006	Greg Noman															
P373P31	Fabricate new pumps, motors, and bases for KL-04 (GFE)	20-Apr-21 A	14-Jul-21	20-Apr-21	14-Jul-21	40%	31	\$0	Greg Noman															
P373P13	Award SRO for Installation of KL-04 Upgrade	30-Jun-21*		30-Jun-21		0%	0	\$0	Greg Noman															
P373P16	Procure and Receive Mechanical Materials (Via SRO) for installation of upgrade equipment on KL-04	01-Jul-21	24-Sep-21	01-Jul-21	24-Sep-21	0%	60	\$42,594	Greg Noman															
P373P46	Procure and Receive Electrical Materials (Conduit & Wiring) (Via SRO) for KL-04	01-Jul-21	24-Sep-21	01-Jul-21	24-Sep-21	0%	60	\$27,231	Greg Noman															
P373P41	Receive new pumps, motors, and bases for KL-04 (GFE)	15-Jul-21	15-Jul-21	15-Jul-21	15-Jul-21	0%	1	\$120,678	Greg Noman															
P373P33	Award SRO for Swapping Klystron Piping for DTL-3, DTL-4, and DTL-5	18-Apr-22*		18-Apr-22		0%	0	\$0	Greg Noman															
P373P36	Procure and Receive Materials (Via SRO) for swapping klystrons DTL-3, DTL-4 and DTL-5 Piping (KL-04)	19-Apr-22	21-Jun-22	19-Apr-22	21-Jun-22	0%	45	\$36,038	Greg Noman															
P373P39	Fabricate piping (Via SRO) for swapping Klystron Piping DTL-3, DTL-4 and DTL-5 (KL-04)	22-Jun-22	15-Sep-22	22-Jun-22	15-Sep-22	0%	60	\$31,050	Greg Noman															
P03.07.03.04 Installation - Water Utilities - Modify Existing RFQ/DTL RF Cooling System (KL-04)		27-Sep-21	12-Apr-23	27-Sep-21	12-Apr-23		378	\$234,785																
P373I925	Prefabricate Pump Inlet and Discharge Piping	27-Sep-21	14-Oct-21	27-Sep-21	14-Oct-21	0%	14	\$9,561	Greg Noman															
P373I26	Controls Support for Upgrade of Equipment on KL-04	22-Oct-21	03-Dec-21	22-Oct-21	03-Dec-21	0%	29	\$11,655	Greg Noman															
P373I900	Perform Electrical Demolition	22-Oct-21	29-Oct-21	22-Oct-21	29-Oct-21	0%	6	\$10,635	Greg Noman															
P373I905	Perform Mechanical Demolition	22-Oct-21	29-Oct-21	22-Oct-21	29-Oct-21	0%	6	\$14,035	Greg Noman															
P373I75	Electrical upgrade VFD Controls & Wiring	01-Nov-21	05-Nov-21	01-Nov-21	05-Nov-21	0%	5	\$17,774	Greg Noman															
P373I910	Patch Remaining Steel Pump Deck	01-Nov-21	01-Nov-21	01-Nov-21	01-Nov-21	0%	1	\$1,490	Greg Noman															
P373I935	Install new electrical equipment, conduit and wiring	01-Nov-21	06-Dec-21	01-Nov-21	06-Dec-21	0%	24	\$29,591	Greg Noman															
P373I915	Support Existing Pump Discharge Piping from Roof	02-Nov-21	05-Nov-21	02-Nov-21	05-Nov-21	0%	4	\$11,861	Greg Noman															
P373I920	Form and Pour new concrete pump foundations	08-Nov-21	29-Nov-21	08-Nov-21	29-Nov-21	0%	14	\$20,369	Greg Noman															
P373I930	Install new pump bases, pumps/motors, and piping	30-Nov-21	16-Dec-21	30-Nov-21	16-Dec-21	0%	13	\$45,954	Greg Noman															
P373I61	Mechanical System test and checkout on KL-04	17-Dec-21	21-Dec-21	17-Dec-21	21-Dec-21	0%	3	\$9,073	Greg Noman															
P373I81	Electrical System test and checkout on KL-04	17-Dec-21	21-Dec-21	17-Dec-21	21-Dec-21	0%	3	\$9,582	Greg Noman															
P373I940	Perform Pump Start-UP & Commissioning Activities	17-Dec-21	21-Dec-21	17-Dec-21	21-Dec-21	0%	3	\$1,490	Greg Noman															
P373MS002	Modification of KL-04 complete (MS)		21-Dec-21		21-Dec-21	0%	0	\$0	Greg Noman															
P373I41	Labor to swap out klystron DTL-3, DTL-4 and -5 piping (KL-04)	22-Feb-23	12-Apr-23	22-Feb-23	12-Apr-23	0%	35	\$41,715	Greg Noman															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P.03.07.07	Electrical	01-Oct-18 A	17-May-24	01-Oct-18	17-May-24		733	\$3,515,566																
P.03.07.07.02 Design - Electrical - (NEP37720)		01-Oct-18 A	30-Sep-22	01-Oct-18	30-Sep-22		333	\$261,178																
P377D001	Elec Designer support for Cable Database and Approved Cable List and (LOE)	01-Oct-18 A	23-Jan-19 A	01-Oct-18	23-Jan-19	100%	0	\$0	Greg Noman															
P377D01B	Elec Designer support of Cable procurement and installation planning (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Greg Noman															
P377D01C	Elec Designer support of Cable procurement and installation planning (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Greg Noman															
P377D115	Elec. Integration Engr Support (Cable Database, Rack fabs, procures, installation planning) (FY20) (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Noman															
P377D105	Electrical Designer Support (Cable Database, Pull Lists, Installation Drawings) (FY20) (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Greg Noman															
P377D115a	Elec. Integration Engr Support (Cable Database, Rack fabs, procures, installation planning) (FY20) (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Noman															
P377D105a	Electrical Designer Support (Cable Database, Pull Lists, Installation Drawings) (FY20) (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Greg Noman															
P377D125	Elec. Integration Engr Support (Cable Database, Rack fab, proc, installation) (FY21) (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Greg Noman															
P377D107	Electrical Designer Support (Cable Database, Pull Lists, Installation Drawings) (FY21) (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Greg Noman															
P377D107a	Electrical Designer Support (Cable Database, Pull Lists, Installation Drawings) (FY21) (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$62,130	Greg Noman															
P377D125a	Elec. Integration Engr Support (Cable Database, Rack fab, proc, installation) (FY21) (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$32,948	Greg Noman															
P377D125b	Elec. Integration Engr Support (Cable Database, Rack fab, proc, installation) (FY21) (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$49,230	Greg Noman															
P377D107b	Electrical Designer Support (Cable Database, Pull Lists, Installation Drawings) (FY21) (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$30,276	Greg Noman															
P377D135	Elec. Integration Engr Support (Cable Database, Rack fabrications, procurements, installation) (FY22) (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$64,939	Greg Noman															
P377D109	Electrical Designer Support (Cable Database, Pull Lists, Installation Drawings) (FY22) (LOE) (Oct21 - Sep22)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$21,656	Greg Noman															
P.03.07.07.03	Procure/Fab - Electrical - (NEP37731)	02-Nov-20 A	13-Dec-21	02-Nov-20	03-Dec-21		136	\$947,489																
P.03.07.07.03.02 SCL HPRF and LLRF Electrical Procurement		03-Nov-20 A	18-Aug-21	03-Nov-20	03-Dec-21		56	\$82,521																
P377P81	Procure 6 LLRF Racks (Phase 1)	03-Nov-20 A	10-Dec-20 A	03-Nov-20	10-Dec-20	100%	0	\$579	Greg Noman															
P377P82	Fabrication of 7 LLRF Racks (Phase 1)	11-Dec-20 A	29-Apr-21 A	11-Dec-20	29-Apr-21	100%	0	\$0	Greg Noman															
P377P84	Receive 7 LLRF Racks (Phase 1)	30-Apr-21 A	30-Apr-21 A	30-Apr-21	30-Apr-21	100%	0	\$21,464	Greg Noman															
P377P81a	Procure 6 LLRF Racks (Phase 2)	01-Jun-21*	21-Jun-21	03-May-21	21-May-21	0%	15	\$462	Greg Noman															
P377P81b	Procure 6 LLRF Racks (Phase 3)	01-Jun-21	21-Jun-21	01-Sep-21	22-Sep-21	0%	15	\$462	Greg Noman															
P377P85	Fabrication of 6 LLRF Racks (Phase 2)	22-Jun-21	17-Aug-21	06-Jul-21	30-Aug-21	0%	40	\$0	Greg Noman															
P377P87	Fabrication of 6 LLRF Racks (Phase 3)	22-Jun-21	17-Aug-21	06-Oct-21	02-Dec-21	0%	40	\$0	Greg Noman															
P377P91	Receive 6 LLRF Racks (Phase 3)	18-Aug-21	18-Aug-21	03-Dec-21	03-Dec-21	0%	1	\$29,777	Greg Noman															
P377P86	Receive 6 LLRF Racks (Phase 2)	18-Aug-21	18-Aug-21	31-Aug-21	31-Aug-21	0%	1	\$29,777	Greg Noman															
P.03.07.07.03.03	Cryomodule Controls Cabling Procurement	02-Nov-20 A	13-Dec-21	02-Nov-20	26-Oct-21		136	\$792,549																
P.03.07.07.03.03.01 Marshalling Cabinet		02-Nov-20 A	13-Dec-21	02-Nov-20	26-Oct-21		136	\$292,643																
P377P304	Procure 1st Marshalling Cabinet (Phase 1) (inc. PLC to MP Connectors)	02-Nov-20 A	26-May-21 A	02-Nov-20	04-Dec-20	100%	0	\$507	Greg Noman															
P377P308	Fabricate 1st Marshalling Cabinet (Phase 1) (inc. PLC to MP Connectors)	27-May-21 A	27-Sep-21	07-Dec-20	11-May-21	3%	83	\$0	Greg Noman															
P377P3064	Procure 2nd Marshalling Cabinet (Phase 2) (inc. PLC to MP Connectors)	29-Jun-21	20-Jul-21	13-May-21	03-Jun-21	0%	15	\$462	Greg Noman															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29				
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P377P114	Fabricate 2nd Marshalling Cabinet (Phase 2) (inc. PLC to MP Connectors)	21-Jul-21	10-Dec-21	04-Jun-21	25-Oct-21	0%	100	\$0	Greg Noman																		
P377P309	Receive 1st Marshalling Cabinet (Phase 1) (inc. PLC to MP Connectors)	28-Sep-21	28-Sep-21	12-May-21	12-May-21	0%	1	\$143,763	Greg Noman																		
P377P3084	Receive 2nd Marshalling Cabinet (Phase 2) (inc. PLC to MP Connectors)	13-Dec-21	13-Dec-21	26-Oct-21	26-Oct-21	0%	1	\$147,910	Greg Noman																		
P03.07.07.03.03.02 Cryo/Tuner Racks		02-Nov-20 A	13-Dec-21	02-Nov-20	26-Oct-21		136	\$178,020																			
P377P3014	Procure 1st set of 3 Cryo/Tuner Racks (Phase 1)	02-Nov-20 A	26-May-21 A	02-Nov-20	04-Dec-20	100%	0	\$507	Greg Noman																		
P377P3094	Fabricate 1st set of 3 Cryo/Tuner Racks (Phase 1)	27-May-21 A	01-Nov-21	07-Dec-20	11-May-21	0%	108	\$0	Greg Noman																		
P377P3104	Procure 2nd set of 3 Cryo/Tuner Racks (Phase 2)	29-Jun-21	20-Jul-21	13-May-21	03-Jun-21	0%	15	\$462	Greg Noman																		
P377P3114	Fabricate 2nd set of 3 Cryo/Tuner Racks (Phase 2)	21-Jul-21	10-Dec-21	04-Jun-21	25-Oct-21	0%	100	\$0	Greg Noman																		
P377P310	Receive 1st set of 3 Cryo/Tuner Racks for Row 50 (Phase 1)	02-Nov-21	02-Nov-21	12-May-21	12-May-21	0%	1	\$88,525	Greg Noman																		
P377P318	Receive 2nd set of 3 Cryo/Tuner Racks for Row ## (Phase 2)	13-Dec-21	13-Dec-21	26-Oct-21	26-Oct-21	0%	1	\$88,525	Greg Noman																		
P03.07.07.03.03.03 Cables		02-Nov-20 A	30-Jul-21	02-Nov-20	25-Aug-21		43	\$321,886																			
P377P174	Receive Batch 1 RF Cables (Cryo Controls, Vacuum Controls, etc)	01-Mar-21 A	01-Mar-21 A	01-Mar-21	01-Mar-21	100%	0	\$50,980	Greg Noman																		
P377P186	Receive Batch 2 RF Cables (Cryo Controls, Vacuum Controls, etc) (PO 4801289777)	02-Mar-21 A	27-May-21 A	02-Mar-21	27-May-21	100%	0	\$30,264	Greg Noman																		
P377P1874	Fabrication Batch 3 RF Cables (Cryo Controls, Vacuum Controls, etc)	02-Mar-21 A	30-Mar-21 A	02-Mar-21	28-May-21	100%	0	\$0	Greg Noman																		
P377P1884	Fabrication Batch 4 RF Cables (Cryo Controls, Vacuum Controls, etc)	02-Mar-21 A	29-Jul-21	02-Mar-21	29-Jul-21	40%	42	\$0	Greg Noman																		
P377P187	Receive Batch 3 RF Cables (Cryo Controls, Vacuum Controls, etc)	31-Mar-21 A	01-Jun-21	01-Jun-21	01-Jun-21	65%	1	\$162,639	Greg Noman																		
P377P188	Receive Batch 4 RF Cables (Cryo Controls, Vacuum Controls, etc)	30-Jul-21	30-Jul-21	30-Jul-21	30-Jul-21	0%	1	\$34,320	Greg Noman																		
P03.07.07.03.03.03.01 Linac Cryomodule Controls Cables		02-Nov-20 A	01-Mar-21 A	02-Nov-20	25-Aug-21		0	\$294																			
P377P186	Procure Linac Cryomodule Controls Cables (Phase 1) (Does not incl. T-M)	02-Nov-20 A	26-Feb-21 A	02-Nov-20	30-Nov-20	100%	0	\$109	Greg Noman																		
P377P187	Procure Linac Cryomodule Controls Cables (Phase 2) (Does not incl. T-M)	01-Feb-21 A	26-Feb-21 A	18-May-21	24-May-21	100%	0	\$92	Greg Noman																		
P377P188	Procure Linac Cryomodule Controls Cables (Phase 3) (Does not incl. T-M)	01-Feb-21 A	26-Feb-21 A	19-Aug-21	25-Aug-21	100%	0	\$92	Greg Noman																		
P377P186	Fabrication of Linac Cryomodule Controls Cables (Phase 1) (Does not incl. T-M, reduce duration?)	01-Mar-21 A	01-Mar-21 A	01-Dec-20	01-Mar-21	100%	0	\$0	Greg Noman																		
P03.07.07.03.03.03.02 Branch Cables (Pigtails)		02-Nov-20 A	28-Jul-21	02-Nov-20	28-Jul-21		41	\$43,389																			
P377P322	Procure Outside Fabrication of Branch cables and Connectors (BLI to CM) (All Phases)	02-Nov-20 A	06-Jan-21 A	02-Nov-20	30-Nov-20	100%	0	\$116	Greg Noman																		
P377P324	Fabrication of Branch cables and Connectors (BLI to CM) (All Phases)	07-Jan-21 A	03-May-21 A	01-Dec-20	04-Jan-21	100%	0	\$0	Greg Noman																		
P377P326	Receive Pre-Fabricated Branch cables and Connectors (BLI to CM) (All Phases)	03-May-21 A	03-May-21 A	05-Jan-21	05-Jan-21	100%	0	\$12,330	Greg Noman																		
P377P326	Receive Pre-Fabricated Branch cables and Connectors (Adjustment Activity PCR RF-2021-16)	03-May-21 A	03-May-21 A	03-May-21	03-May-21	100%	0	(\$12,330)	Greg Noman																		
P377P326	Fabrication of Pre-Fabricated Branch cables and Connectors	03-May-21 A	27-Jul-21	03-May-21	27-Jul-21	0%	40	\$0	Greg Noman																		
P377P326	Receive Pre-Fabricated Branch cables and Connectors (New PCR RF-2021-16)	28-Jul-21	28-Jul-21	28-Jul-21	28-Jul-21	0%	1	\$43,273	Greg Noman																		
P03.07.07.03.04 Insulating Vacuum Cabling Procurement		02-Nov-20 A	09-Sep-21	02-Nov-20	30-Jun-21		71	\$9,286																			
P03.07.07.03.04.02 Cables		02-Nov-20 A	01-Mar-21 A	02-Nov-20	01-Mar-21		0	\$109																			
P377P4011	Procure INS Vacuum Cables for all CMs and Systems (inc. HEDP and 2 Large Roughing pumps) (Does not incl. T-M)	02-Nov-20 A	26-Feb-21 A	02-Nov-20	11-Dec-20	100%	0	\$109	Greg Noman																		
P377P4014	Fabricate INS Vac Cables for all CMs and Systems (inc. HEDP & Large Roughing pump) (Does not incl. T-M, reduce dur?)	01-Mar-21 A	01-Mar-21 A	14-Dec-20	01-Mar-21	100%	0	\$0	Greg Noman																		

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P03.07.07.03.04.03 Connectors		02-Nov-20 A	09-Sep-21	14-Dec-20	30-Jun-21		71	\$9,177															
P377P4071	Procure INS Vacuum Connectors for all CMs and all Systems	02-Nov-20 A	29-Apr-21 A	14-Dec-20	08-Jan-21	100%	0	\$103	Greg Noman														
P377P4074	Fabrication of INS Vacuum Connectors for all CMs and all Systems	30-Apr-21 A	08-Sep-21	11-Jan-21	29-Jun-21	0%	70	\$0	Greg Noman														
P377P408	Receive INS Vacuum Connectors for all CMs and all Systems	09-Sep-21	09-Sep-21	30-Jun-21	30-Jun-21	0%	1	\$9,074	Greg Noman														
P03.07.07.03.05 Beamline Vacuum Cabling Procurement		02-Nov-20 A	09-Sep-21	02-Nov-20	01-Jul-21		71	\$33,115															
P03.07.07.03.05.02 Cables		02-Nov-20 A	01-Mar-21 A	02-Nov-20	01-Mar-21		0	\$109															
P377P5091	Procure SCL Vacuum Cables for all CMs and Systems (inc. HEDP) (Does not incl. T-M)	02-Nov-20 A	26-Feb-21 A	02-Nov-20	11-Dec-20	100%	0	\$109	Greg Noman														
P377P5094	Fabrication of SCL Vacuum Cables for all CMs and Systems (inc. HEDP) (Does not incl. T-M, reduce duration?)	01-Mar-21 A	01-Mar-21 A	14-Dec-20	01-Mar-21	100%	0	\$0	Greg Noman														
P03.07.07.03.05.03 Connectors		02-Nov-20 A	09-Sep-21	14-Dec-20	01-Jul-21		71	\$33,005															
P377P5151	Procure SCL Vacuum Connectors for all CMs and Systems (inc. HEDP)	02-Nov-20 A	29-Apr-21 A	14-Dec-20	08-Jan-21	100%	0	\$103	Greg Noman														
P377P5154	Fabrication SCL Vacuum Connectors for all CMs and Systems (inc. HEDP)	30-Apr-21 A	08-Sep-21	11-Jan-21	30-Jun-21	0%	70	\$0	Greg Noman														
P377P516	Receive SCL Vacuum Connectors for all CMs and Systems (inc. HEDP)	09-Sep-21	09-Sep-21	01-Jul-21	01-Jul-21	0%	1	\$32,902	Greg Noman														
P03.07.07.03.08 Global Controls Cabling Procurement		02-Nov-20 A	06-Apr-21 A	07-Dec-20	12-May-21		0	\$30,019															
P03.07.07.03.08.01 Racks		02-Nov-20 A	06-Apr-21 A	07-Dec-20	12-May-21		0	\$30,019															
P377P1001	Procure 3 communication racks	02-Nov-20 A	30-Nov-20 A	07-Dec-20	18-Dec-20	100%	0	\$116	Greg Noman														
P377P1004	Fabrication of 3 communication racks	01-Dec-20 A	09-Feb-21 A	04-Jan-21	11-May-21	100%	0	\$0	Greg Noman														
P377P5174	Fabrication of 3 Diagnostic Racks	01-Feb-21 A	05-Apr-21 A			100%	0	\$0	Greg Noman														
P377P101	Receive 3 Communication Racks	10-Feb-21 A	10-Feb-21 A	12-May-21	12-May-21	100%	0	\$15,811	Greg Noman														
P377P5164	Receive 3 Diagnostics Racks	06-Apr-21 A	06-Apr-21 A	12-May-21	12-May-21	100%	0	\$14,092	Greg Noman														
P03.07.07.04 Installation - Electrical - (NEP37740)		23-Apr-21 A	17-May-24	06-Jan-21	17-May-24		733	\$2,306,899															
P03.07.07.04.01 General Electrical Installation		17-May-21 A	17-May-24	14-May-21	17-May-24		733	\$460,719															
P03.07.07.04.01.01 Phase 1 Installation		17-May-21 A	16-Sep-21	14-May-21	04-Aug-21		76	\$202,274															
P377I975	Klystron Shield Block Mobility Fabrication and Installation	17-May-21 A	30-Jun-21	01-Jun-21	30-Jun-21	70%	22	\$87,067	Greg Noman														
P377I985	Install Tray over Rack Row 51 (NIB) (subset of P377I266)	01-Jun-21*	07-Jun-21			0%	5	\$0	Greg Noman														
P377I995	Install initial Racks, Row 51 (NIB) (subset of P377I106)	01-Jun-21*	07-Jun-21			0%	5	\$0	Greg Noman														
P377I266	Install technical equipment cable tray (Phase 1)	15-Jun-21	16-Aug-21	14-May-21	02-Jul-21	0%	44	\$39,616	Greg Noman														
P377I271	Install AC Power Cables (Phase 1)	29-Jun-21	05-Aug-21	28-May-21	07-Jul-21	0%	27	\$34,742	Greg Noman														
P377I461	Terminate AC power cables (phase 1)	06-Aug-21	19-Aug-21	08-Jul-21	21-Jul-21	0%	10	\$6,110	Greg Noman														
P377I106	Install Equipment Racks (Phase 1)	17-Aug-21	07-Sep-21	06-Jul-21	26-Jul-21	0%	15	\$15,642	Greg Noman														
P377I471	Turn on AC power to loads (phase 1)	20-Aug-21	23-Aug-21	22-Jul-21	23-Jul-21	0%	2	\$3,055	Greg Noman														
P377I834	Install Task Lighting Receptacles (Phase 1)	08-Sep-21	16-Sep-21	27-Jul-21	04-Aug-21	0%	7	\$16,042	Greg Noman														
P03.07.07.04.01.02 Phase 2 Installation		29-Sep-21	20-Dec-21	17-Aug-21	04-Nov-21		57	\$118,030															
P377I520	Install technical equipment cable tray (Phase 2)	29-Sep-21	16-Nov-21	17-Aug-21	05-Oct-21	0%	35	\$40,528	Greg Noman														

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P377I228	Terminate Connections for klystrons 28B through 30B (Phase 2)	19-Jan-22	01-Feb-22	24-Nov-21	09-Dec-21	0%	10	\$10,010	Greg Noman															
P377I511	Cable pulls from the klystron gallery LLRF racks to the reference line boxes down in the tunnel (Phase 2)	21-Mar-22	25-Mar-22	21-Mar-22	25-Mar-22	0%	5	\$2,502	Greg Noman															
P377I220	Set XMTR-27 and XMTR-28 Racks	25-Mar-22	30-Mar-22	02-Mar-22	07-Mar-22	0%	4	\$6,133	Greg Noman															
P377I905	Terminate AC Power Cables to XMTR-27 and XMTR-28	31-Mar-22	01-Apr-22	08-Mar-22	09-Mar-22	0%	2	\$4,222	Greg Noman															
P377I915	Turn on AC Power to XMTR-27 and XMTR-28	04-Apr-22	05-Apr-22	10-Mar-22	11-Mar-22	0%	2	\$4,222	Greg Noman															
P377I244	Install HV Cables (XMTR-27 and 28) - SCL-MOD-28	17-Aug-22	17-Aug-22	17-Aug-22	17-Aug-22	0%	1	\$3,241	Greg Noman															
P377I248	Terminate HV Cables - SCL-MOD-28	18-Aug-22	23-Aug-22	18-Aug-22	23-Aug-22	0%	4	\$3,717	Greg Noman															
P03.07.07.04.02.03 Phase 3 Installation		17-Nov-21	26-Oct-22	06-Oct-21	26-Oct-22		232	\$251,955																
P377I224	Install waveguide and loads for klystrons 25A through 28A (Phase 3)	17-Nov-21	25-Feb-22	06-Oct-21	13-Jan-22	0%	63	\$101,430	Greg Noman															
P377I232	Install LLRF, WG coupler, and XMTR Cabling (Inc. int. and ext.) for klystrons 25A through 28A (Phase 3)	26-Jan-22	20-Apr-22	03-Dec-21	08-Mar-22	0%	60	\$107,568	Greg Noman															
P377I242	Install Conduit for HV Cables - SCL-MOD-25	23-Mar-22	28-Mar-22	09-Feb-22	14-Feb-22	0%	4	\$5,005	Greg Noman															
P377I965	Install circulators for klystrons 25A through 28A (Phase 3)	25-Mar-22	07-Apr-22	08-Apr-22	22-Apr-22	0%	10	\$6,756	Greg Noman															
P377I229	Terminate Connections for klystrons 25A through 28A (Phase 3)	21-Apr-22	04-May-22	09-Mar-22	22-Mar-22	0%	10	\$10,010	Greg Noman															
P377I240	Set XMTR-25 Racks	22-Apr-22	27-Apr-22	13-Apr-22	19-Apr-22	0%	4	\$6,133	Greg Noman															
P377I925	Terminate AC Power Cables to XMTR-25	28-Apr-22	29-Apr-22	20-Apr-22	21-Apr-22	0%	2	\$3,221	Greg Noman															
P377I935	Turn on AC Power to XMTR-25	02-May-22	02-May-22	22-Apr-22	22-Apr-22	0%	1	\$3,221	Greg Noman															
P377I512	Cable pulls from the klystron gallery LLRF racks to the reference line boxes down in the tunnel (Phase 3)	08-Aug-22	12-Aug-22	08-Aug-22	12-Aug-22	0%	5	\$2,502	Greg Noman															
P377I250	Install HV Cables (XMTR-25 and 27) - SCL-MOD-25	20-Oct-22	20-Oct-22	20-Oct-22	20-Oct-22	0%	1	\$2,297	Greg Noman															
P377I252	Terminate HV Cables - SCL-MOD-25	21-Oct-22	26-Oct-22	21-Oct-22	26-Oct-22	0%	4	\$3,812	Greg Noman															
P03.07.07.04.03 Cryomodule Controls Cabling Installation		03-May-21 A	11-May-23	06-Jan-21	11-May-23		397	\$305,392																
P03.07.07.04.03.01 Phase 1 Installation		03-May-21 A	11-Apr-22	06-Jan-21	11-Apr-22		129	\$93,443																
P377I316	Branch Cable terminations (Pigtail to BLI) CM 32/31 and Labeling of BLI Terminal Blocks	03-May-21 A	03-May-21 A	06-Jan-21	28-Jan-21	100%	0	\$19,430	Greg Noman															
P377I316a	Branch Cable terminations (Pigtail to BLI) CM 32/31 (Adjustment Activity PCR RF-2021-16)	04-May-21 A	04-May-21 A	03-May-21	03-May-21	100%	0	(\$19,430)	Greg Noman															
P377I304	Install Marshalling Cabinet (Phase 1)	29-Sep-21	08-Oct-21	06-Jul-21	15-Jul-21	0%	8	\$3,732	Greg Noman															
P377I191	Pull Cryo Controls Cables From Klystron Gallery to Tunnel (Phase 1)	22-Oct-21	02-Nov-21	22-Oct-21	02-Nov-21	0%	8	\$26,275	Greg Noman															
P377I302	Install 3 Cryo/Tuner Racks Row 50 (Phase 1)	03-Nov-21	12-Nov-21	06-Jul-21	15-Jul-21	0%	8	\$3,754	Greg Noman															
P377I306	Klystron Gallery cable termination CM 32/31	22-Dec-21	18-Jan-22	22-Dec-21	18-Jan-22	0%	16	\$19,894	Greg Noman															
P377I314	Linac cable Tunnel terminations (to BLI) CM 32	21-Mar-22	30-Mar-22	21-Mar-22	30-Mar-22	0%	8	\$9,947	Greg Noman															
P377I316b	Branch Cable terminations (Pigtail to BLI) CM 32/31 and Labeling of BLI Terminal Blocks	21-Mar-22	11-Apr-22	21-Mar-22	11-Apr-22	0%	16	\$19,894	Greg Noman															
P377I312	Linac cable Tunnel terminations (to BLI) CM 31	31-Mar-22	11-Apr-22	31-Mar-22	11-Apr-22	0%	8	\$9,947	Greg Noman															
P03.07.07.04.03.02 Phase 2 Installation		03-May-21 A	17-Nov-22	06-Jan-21	17-Nov-22		231	\$127,775																
P377I332	Branch Cable terminations (Pigtail to BLI) CM 30/29/28 and Labeling of BLI Terminal Blocks	03-May-21 A	03-May-21 A	06-Jan-21	28-Jan-21	100%	0	\$29,145	Greg Noman															
P377I332a	Branch Cable terminations (Pigtail to BLI) CM 30/29/28 (Adjustment Activity PCR RF-2021-16)	04-May-21 A	04-May-21 A	03-May-21	03-May-21	100%	0	(\$29,145)	Greg Noman															

Table with columns: 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. Rows include tasks such as 'Install Marshalling Cabinet (Phase 2)', 'Phase 3 Installation', and 'Insulating Vacuum Cabling Installation'.

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
P3771620	Install SCR control cables for SCL-MOD-30	27-Aug-21	02-Sep-21	30-Aug-21	03-Sep-21	0%	5	\$6,110	Greg Noman															
P3771640	Install 4/0 cables and conduit for SCL-MOD-30 (SCR to Safety Enclosure)	24-Sep-21	11-Oct-21	26-Aug-21	13-Sep-21	0%	12	\$15,530	Greg Noman															
P3771618	Terminate & Test Cabling SCL-MOD-30	12-Oct-21	09-Nov-21	14-Sep-21	12-Oct-21	0%	21	\$51,675	Greg Noman															
P03.07.07.04.06.02 Phase 2 Installation		23-Apr-21 A	19-Apr-22	17-Aug-21	09-Mar-22		177	\$158,587																
P3771624	Install Loxarmor Cabling SCL-MOD-28	23-Apr-21 A	21-May-21 A	17-Aug-21	17-Aug-21	100%	0	\$5,377	Greg Noman															
P3771660	Tie in 13.8kV Power Cables to Transformer SCL-MOD-28	29-Jul-21	29-Jul-21	23-Aug-21	23-Aug-21	0%	1	\$1,222	Greg Noman															
P3771628	Energize Switchgear SCL-MOD-28	30-Jul-21	30-Jul-21	24-Aug-21	24-Aug-21	0%	1	\$611	Greg Noman															
P3771630	Install SCR cabinets for SCL-MOD-28	16-Dec-21	22-Dec-21	16-Dec-21	22-Dec-21	0%	5	\$751	Greg Noman															
P3771246	Install SCL-MOD-28 Cables	22-Dec-21	08-Feb-22	22-Dec-21	08-Feb-22	0%	31	\$77,011	Greg Noman															
P3771634	Install SCR control cables for SCL-MOD-28	06-Jan-22	12-Jan-22	06-Jan-22	12-Jan-22	0%	5	\$6,256	Greg Noman															
P3771648	Install 4/0 cables and conduit for SCL-MOD-28 (SCR to Safety Enclosure)	03-Mar-22	18-Mar-22	14-Jan-22	01-Feb-22	0%	12	\$15,684	Greg Noman															
P3771632	Terminate & Test Cabling SCL-MOD-28	21-Mar-22	19-Apr-22	09-Feb-22	09-Mar-22	0%	21	\$51,675	Greg Noman															
P03.07.07.04.06.03 Phase 3 Installation		23-Apr-21 A	13-Sep-22	24-Nov-21	13-Sep-22		320	\$158,630																
P3771636	Install Loxarmor Cabling SCL-MOD-25	23-Apr-21 A	11-Jun-21	24-Nov-21	24-Nov-21	10%	9	\$5,377	Greg Noman															
P3771670	Tie in 13.8kV Power Cables to Transformer SCL-MOD-25	30-Nov-21	30-Nov-21	02-Dec-21	02-Dec-21	0%	1	\$1,251	Greg Noman															
P3771638	Energize Switchgear SCL-MOD-25	01-Dec-21	01-Dec-21	03-Dec-21	03-Dec-21	0%	1	\$626	Greg Noman															
P3771642	Install SCR cabinets for SCL-MOD-25	02-Mar-22	08-Mar-22	19-Jan-22	25-Jan-22	0%	5	\$751	Greg Noman															
P3771646	Install SCR control cables for SCL-MOD-25	14-Mar-22	18-Mar-22	31-Jan-22	04-Feb-22	0%	5	\$6,256	Greg Noman															
P3771121	Install SCL-MOD-25 Cables	16-May-22	28-Jun-22	16-May-22	28-Jun-22	0%	31	\$77,011	Greg Noman															
P3771650	Install 4/0 cables and conduit for SCL-MOD-25 (SCR to Safety Enclosure)	28-Jul-22	12-Aug-22	28-Jul-22	12-Aug-22	0%	12	\$15,684	Greg Noman															
P3771644	Terminate & Test Cabling SCL-MOD-25	15-Aug-22	13-Sep-22	15-Aug-22	13-Sep-22	0%	21	\$51,675	Greg Noman															
P03.07.07.04.07 PPS Cabling Installation		29-Jun-21	01-Feb-22	28-May-21	09-Dec-21		144	\$15,270																
P03.07.07.04.07.01 Phase 1 Installation		29-Jun-21	06-Jul-21	28-May-21	04-Jun-21		5	\$5,010																
P3771161	Install PPS Cables (Phase 1)	29-Jun-21	06-Jul-21	28-May-21	04-Jun-21	0%	5	\$5,010	Greg Noman															
P03.07.07.04.07.02 Phase 2 Installation		13-Oct-21	19-Oct-21	31-Aug-21	07-Sep-21		5	\$5,130																
P3771341	Install PPS Cables (Phase 2)	13-Oct-21	19-Oct-21	31-Aug-21	07-Sep-21	0%	5	\$5,130	Greg Noman															
P03.07.07.04.07.03 Phase 3 Installation		26-Jan-22	01-Feb-22	03-Dec-21	09-Dec-21		5	\$5,130																
P3771351	Install PPS Cables (Phase 3)	26-Jan-22	01-Feb-22	03-Dec-21	09-Dec-21	0%	5	\$5,130	Greg Noman															
P03.07.07.04.08 Global Controls Cabling Installation		29-Jun-21	28-Feb-22	28-May-21	14-Jan-22		163	\$76,292																
P03.07.07.04.08.01 Phase 1 Installation		29-Jun-21	02-Aug-21	28-May-21	01-Jul-21		24	\$27,495																
P3771146	Install ICS Global Controls Cables (Phase 1)	29-Jun-21	12-Jul-21	28-May-21	10-Jun-21	0%	9	\$7,882	Greg Noman															
P3771802	Communication cable installation labor Phase 1	29-Jun-21	13-Jul-21	28-May-21	11-Jun-21	0%	10	\$12,220	Greg Noman															
P3771804	ICS cable terminations for Phase 1 (fiber and copper)	13-Jul-21	02-Aug-21	11-Jun-21	01-Jul-21	0%	15	\$2,505	Greg Noman															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29	
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P377806	Communication cable Termination Phase 1	14-Jul-21	27-Jul-21	14-Jun-21	25-Jun-21	0%	10	\$4,888	Greg Noman															
P03.07.07.04.08.02 Phase 2 Installation		13-Oct-21	16-Nov-21	31-Aug-21	05-Oct-21		25	\$28,152																
P377808	Communication cable installation labor Phase 2	13-Oct-21	02-Nov-21	31-Aug-21	21-Sep-21	0%	15	\$12,512	Greg Noman															
P377421	Install ICS Global Controls Cables (Phase 2)	13-Oct-21	25-Oct-21	31-Aug-21	13-Sep-21	0%	9	\$8,070	Greg Noman															
P377812	ICS cable terminations for Phase 2 (fiber and copper)	26-Oct-21	15-Nov-21	14-Sep-21	04-Oct-21	0%	15	\$2,565	Greg Noman															
P377814	Communication cable Termination Phase 2	03-Nov-21	16-Nov-21	22-Sep-21	05-Oct-21	0%	10	\$5,005	Greg Noman															
P03.07.07.04.08.03 Phase 3 Installation		26-Jan-22	28-Feb-22	03-Dec-21	14-Jan-22		24	\$20,645																
P377818	Communication cable installation labor Phase 3	26-Jan-22	08-Feb-22	03-Dec-21	16-Dec-21	0%	10	\$5,005	Greg Noman															
P377431	Install ICS Global Controls Cables (Phase 3)	26-Jan-22	07-Feb-22	03-Dec-21	15-Dec-21	0%	9	\$8,070	Greg Noman															
P377822	ICS cable terminations for Phase 3 (fiber and copper)	08-Feb-22	28-Feb-22	16-Dec-21	14-Jan-22	0%	15	\$2,565	Greg Noman															
P377824	Communication cable Termination Phase 3	09-Feb-22	22-Feb-22	17-Dec-21	10-Jan-22	0%	10	\$5,005	Greg Noman															
P03.08 RF Controls		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$572,841																
P03.08.01 Management and System Integration - RF Controls		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$94,614																
P03.08.01.01 Management and System Integration - RF Controls - (NEP38110)		03-Oct-16 A	14-May-24	03-Oct-16	14-May-24		730	\$94,614																
P381M1	WBS Management P.3.8 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White															
P381M62	WBS Management P.3.8.2 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White															
P381M78	CAM management P.3.8.3 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White															
P381M64	WBS Management P.3.8.2 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White															
P381M80	CAM management P.3.8.3 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White															
P381M10	WBS Management P.3.8 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White															
P381M6	WBS Management P.3.8 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P381M66	WBS Management P.3.8.2 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P381M82	CAM management P.3.8.3 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P381M11	WBS Management P.3.8 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P381M84	CAM management P.3.8.3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P381M68	WBS Management P.3.8.2 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P381M84B	CAM management P.3.8.3 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P381M11B	WBS Management P.3.8 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P381M68B	WBS Management P.3.8.2 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P381M68C	WBS Management P.3.8.2 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P381M11C	WBS Management P.3.8 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P381M84C	CAM management P.3.8.3 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P381M16	WBS Management P.3.8 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															

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
P381M70	WBS Management P.3.8.2 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P381M86	CAM management P.3.8.3 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P381M86a	CAM management P.3.8.3 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P381M16a	WBS Management P.3.8 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P381M70a	WBS Management P.3.8.2 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P381M21	WBS Management P.3.8 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P381M72	WBS Management P.3.8.2 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P381M88	CAM management P.3.8.3 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P381M21a	WBS Management P.3.8 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$11,287	Karen White															
P381M72a	WBS Management P.3.8.2 FY21 (LOE) Part 2 (Nov20 - Sep21)	02-Nov-20 A	30-Sep-21	02-Nov-20	30-Sep-21	61.26%	86	\$8,495	Karen White															
P381M88a	CAM management P.3.8.3 FY21 (LOE) Part 2 (Mar21 - Jan22)	29-Mar-21 A	31-Jan-22	29-Mar-21	31-Jan-22	21.26%	163	\$17,047	Karen White															
P381M26	WBS Management P.3.8 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$12,661	Karen White															
P381M74	WBS Management P.3.8.2 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$6,331	Karen White															
P381M003	P.3.8 and P.3.9 Organize and Verify Documentation for Phase 1 ARR	13-Sep-22	10-Oct-22	13-Sep-22	10-Oct-22	0%	20	\$7,683	Karen White															
P381M31	WBS Management P.3.8 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$6,571	Karen White															
P381M76	WBS Management P.3.8.2 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$3,286	Karen White															
P381M002	P.3.8 and P.3.9 Organize and Verify Documentation for Phase 2 ARR	16-Mar-23	13-Apr-23	16-Mar-23	13-Apr-23	0%	20	\$7,885	Karen White															
P381M79	WBS Management P.3.8.2 FY24 (LOE)	02-Oct-23	07-May-24	02-Oct-23	07-May-24	0%	147	\$1,228	Karen White															
P381M35	WBS Management P.3.8 FY24 (LOE)	02-Oct-23	07-May-24	02-Oct-23	07-May-24	0%	147	\$3,956	Karen White															
P381M001	P.3.8 and P.3.9 Organize and Verify Documentation for Phase 3 ARR	17-Apr-24	14-May-24	17-Apr-24	14-May-24	0%	20	\$8,185	Karen White															
P03.08.02 Linac RF Controls		01-Oct-18 A	08-May-24	01-Oct-18	08-May-24		726	\$472,399																
P03.08.02.02 Design - Linac RF Controls - (NEP38220)		01-Oct-18 A	24-Jan-22	01-Oct-18	15-Nov-21		158	\$227,131																
P382D116	Update Row 35 equipment rack drawings	17-Jul-20 A	11-Sep-20 A	17-Jul-20	11-Sep-20	100%	0	\$0	Karen White															
P382D181	EPICS SW replication for the HVCM systems	02-Jul-21	28-Sep-21	24-May-21	17-Aug-21	0%	60	\$26,936	Karen White															
P382D186	EPICS SW replication for the HPRF systems	19-Oct-21	24-Jan-22	23-Aug-21	15-Nov-21	0%	60	\$29,138	Karen White															
P03.08.02.02.01 LLRF SW Support		01-Oct-18 A	01-Nov-21	01-Oct-18	01-Nov-21		108	\$171,058																
P03.08.02.02.01.01 General		01-Oct-18 A	17-Sep-20 A	01-Oct-18	17-Sep-20		0	\$0																
P382D605	SW Support for LLRF - Setup test area in LLRF Lab to support development	01-Oct-18 A	12-Oct-18 A	01-Oct-18	12-Oct-18	100%	0	\$0	Karen White															
P382D600	SW Support for LLRF - Additional Firmware Design for Platform Alternatives	16-Oct-18 A	14-Nov-18 A	16-Oct-18	14-Nov-18	100%	0	\$0	Karen White															
P382D610	SW Support for LLRF - Generate Software Requirements Document 1%	30-Jan-19 A	29-Mar-19 A	30-Jan-19	29-Mar-19	100%	0	\$0	Karen White															
P382D635	SW Support for LLRF - Prep for LLRF Preliminary Design Review (PDR)	01-May-19 A	13-May-19 A	01-May-19	13-May-19	100%	0	\$0	Karen White															
P382D640	SW Support for LLRF - P.3.4 LLRF Preliminary Design Review (PDR)	14-May-19 A	15-May-19 A	14-May-19	15-May-19	100%	0	\$0	Karen White															
P382D610B	SW Support for LLRF - Generate Software Requirements Document - Continued	01-Aug-19 A	30-Aug-19 A	01-Aug-19	30-Aug-19	100%	0	\$0	Karen White															

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
P382D680	SW Support for LLRF - Prep for LLRF Final Design Review (FDR)	01-Sep-20 A	15-Sep-20 A	01-Sep-20	15-Sep-20	100%	0	\$0	Karen White															
P382D685	SW Support for LLRF - P.3.4 LLRF Final Design review (FDR)	16-Sep-20 A	17-Sep-20 A	16-Sep-20	17-Sep-20	100%	0	\$0	Karen White															
P03.08.02.02.01.02 Design test article of HPM-II RTM		04-Dec-18 A	30-Aug-19 A	04-Dec-18	30-Aug-19		0	\$0																
P382D615	SW Support for LLRF - write test firmware for HPM-II RTM 85%	04-Dec-18 A	29-Mar-19 A	04-Dec-18	29-Mar-19	100%	0	\$0	Karen White															
P382D615B	SW Support for LLRF - write test firmware for HPM-II RTM - Continued	01-Apr-19 A	16-Aug-19 A	01-Apr-19	16-Aug-19	100%	0	\$0	Karen White															
P382D620	SW Support for LLRF - test, iterate, rework of the HPM-II RTM	19-Aug-19 A	30-Aug-19 A	19-Aug-19	30-Aug-19	100%	0	\$0	Karen White															
P03.08.02.02.01.03 Develop System Model		03-Jan-19 A	29-Mar-19 A	03-Jan-19	29-Mar-19		0	\$0																
P382D315	SW Support for LLRF - Model Cavity Klystron and Controller 15%	03-Jan-19 A	29-Mar-19 A	03-Jan-19	29-Mar-19	100%	0	\$0	Karen White															
P03.08.02.02.01.04 Design test article of FCM-II RTM		16-Dec-19 A	10-Jan-20 A	16-Dec-19	10-Jan-20		0	\$0																
P382D650	SW Support for LLRF - write test firmware for FCM-II RTM - interface software for FCM-II RTM	16-Dec-19 A	10-Jan-20 A	16-Dec-19	10-Jan-20	100%	0	\$0	Karen White															
P03.08.02.02.01.05 Firmware Development HPM-II		03-Feb-20 A	30-Jun-20 A	03-Feb-20	30-Jun-20		0	\$0																
P382D730	SW Support for LLRF - Firmware Development HPM-II (LOE)	03-Feb-20 A	31-Mar-20 A	03-Feb-20	31-Mar-20	100%	0	\$0	Karen White															
P382D730a	SW Support for LLRF - Firmware Development HPM-II (LOE) (Apr20>)	01-Apr-20 A	30-Jun-20 A	01-Apr-20	30-Jun-20	100%	0	\$0	Karen White															
P03.08.02.02.01.07 Software for Firmware Development for LLRF - basic functionality		02-Dec-19 A	07-Apr-21 A	02-Dec-19	07-Apr-21		0	\$114,726																
P382D665	SW Support for LLRF - Define Firmware Block Diagram and define interfaces (Hardware/Software)	02-Dec-19 A	24-Jan-20 A	02-Dec-19	24-Jan-20	100%	0	\$0	Karen White															
P382D750	SW Support for LLRF - Firmware Development - basic functionality (LOE)	11-Feb-20 A	31-Mar-20 A	11-Feb-20	31-Mar-20	100%	0	\$0	Karen White															
P382D750a	SW Support for LLRF - Firmware Development - basic functionality (LOE) (Apr20>)	01-Apr-20 A	13-May-20 A	01-Apr-20	13-May-20	100%	0	\$0	Karen White															
P382D705	SW Support for LLRF - Iterate Firmware / Bug Fixes (Cycle 1) (LOE) (Converted to LOE)	19-Aug-20 A	30-Oct-20 A	19-Aug-20	30-Oct-20	100%	0	\$0	Karen White															
P382D710	SW Support for LLRF - Iterate Firmware / Bug Fixes (Cycle 2) (LOE) (Converted to LOE)	02-Nov-20 A	01-Feb-21 A	02-Nov-20	01-Feb-21	100%	0	\$56,470	Karen White															
P382D740	SW Support for LLRF - Iterate Firmware / Bug Fixes (Cycle 3) (LOE) (Converted to LOE)	02-Feb-21 A	07-Apr-21 A	02-Feb-21	07-Apr-21	100%	0	\$58,256	Karen White															
P03.08.02.02.01.08 Software for Firmware Development for LLRF - advanced functionality		08-Apr-21 A	01-Nov-21	08-Apr-21	01-Nov-21		108	\$56,332																
P382D720	SW Support for LLRF - Integrate Advanced Features into LLRF System (LOE)	08-Apr-21 A	01-Nov-21	08-Apr-21	01-Nov-21	25.52%	108	\$56,332	Karen White															
P03.08.02.03 Procure/Fab - Linac RF Controls - (NEP38231)		04-Jan-21 A	10-Sep-21	15-Feb-21	15-Jul-21		72	\$59,434																
P03.08.02.03.02 Processors for the LLRF crates		04-Jan-21 A	10-Sep-21	15-Feb-21	15-Jul-21		72	\$59,434																
P382P141	Procure processors for the LLRF crates (and timing daughter cards)	04-Jan-21 A	14-May-21 A	15-Feb-21	05-Mar-21	100%	0	\$97	Karen White															
P382P121	Fabrication of processors for the LLRF crates (and timing daughter cards)	17-May-21 A	09-Sep-21	08-Mar-21	14-Jul-21	15%	71	\$0	Karen White															
P382P221	Receive processors for the LLRF crates (and timing daughter cards)	10-Sep-21	10-Sep-21	15-Jul-21	15-Jul-21	0%	1	\$59,337	Karen White															
P03.08.02.04 Installation - Linac RF Controls - (NEP38240)		09-Nov-21	08-May-24	02-Nov-21	08-May-24		613	\$185,833																
P03.08.02.04.1 Phase 1 Installation		09-Nov-21	03-Oct-22	02-Nov-21	03-Oct-22		221	\$66,877																
P382i166	LLRF Controls SW configuration for XMTR-31 and 30 (Phase 1)	09-Nov-21	14-Jan-22	02-Nov-21	07-Jan-22	0%	40	\$36,056	Karen White															
P382i760	HPRF SW deployment XMTR-31 and 30	25-Jan-22	21-Feb-22	23-Nov-21	22-Dec-21	0%	20	\$9,014	Karen White															
P382i206	HPRF SW deployment HVCM 30	29-Apr-22	26-May-22	29-Apr-22	26-May-22	0%	20	\$9,014	Karen White															
P382i356	HPRF and HVCM integration testing SCL-MOD-30	02-Jun-22	08-Jun-22	02-Jun-22	08-Jun-22	0%	5	\$2,253	Karen White															

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										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P3821366	LLRF & HPRF Load Testing (Phase 1)	09-Aug-22	15-Aug-22	09-Aug-22	15-Aug-22	0%	5	\$7,512	Karen White														
P3821336	LLRF SW integration testing CM 31 & 32	27-Sep-22	03-Oct-22	27-Sep-22	03-Oct-22	0%	5	\$3,028	Karen White														
P03.08.02.04.2 Phase 2 Installation		26-Jan-22	12-Apr-23	03-Dec-21	26-Apr-23		301	\$68,836															
P3821161	LLRF Controls SW configuration for XMTR-28 and 27 (Phase 2)	26-Jan-22	22-Mar-22	03-Dec-21	08-Feb-22	0%	40	\$36,056	Karen White														
P3821770	HPRF SW deployment XMTR-28 and 27	06-Apr-22	04-May-22	14-Mar-22	08-Apr-22	0%	20	\$9,014	Karen White														
P3821201	HPRF SW deployment HVCM 28	04-Aug-22	31-Aug-22	04-Aug-22	31-Aug-22	0%	20	\$9,014	Karen White														
P3821351	HPRF and HVCM integration testing SCL-MOD-28	06-Sep-22	03-Oct-22	06-Sep-22	03-Oct-22	0%	20	\$2,258	Karen White														
P3821367	LLRF & HPRF Load Testing (Phase 2)	21-Nov-22	29-Nov-22	21-Nov-22	29-Nov-22	0%	5	\$7,809	Karen White														
P3821331	LLRF SW integration testing CM 30, 29 and 28	05-Apr-23	12-Apr-23	20-Apr-23	26-Apr-23	0%	5	\$4,685	Karen White														
P03.08.02.04.3 Phase 3 Installation		27-Apr-22	08-May-24	15-Mar-22	08-May-24		503	\$50,121															
P3821151	LLRF Controls SW configuration for XMTR-25 (Phase 3)	27-Apr-22	24-May-22	15-Mar-22	11-Apr-22	0%	20	\$18,028	Karen White														
P3821780	HPRF SW deployment XMTR-25	03-May-22	31-May-22	25-Apr-22	20-May-22	0%	20	\$9,014	Karen White														
P3821196	HPRF SW deployment HVCM 25	19-Oct-22	15-Nov-22	19-Oct-22	15-Nov-22	0%	20	\$9,371	Karen White														
P3821346	HPRF and HVCM integration testing SCL-MOD-25	18-Nov-22	19-Dec-22	18-Nov-22	19-Dec-22	0%	20	\$2,343	Karen White														
P3821368	LLRF & HPRF Load Testing (Phase 3)	07-Nov-23	13-Nov-23	07-Nov-23	13-Nov-23	0%	5	\$8,118	Karen White														
P3821316	LLRF SW integration testing CM 27 and 25	02-May-24	08-May-24	02-May-24	08-May-24	0%	5	\$3,247	Karen White														
P03.08.03 Linac Water System Controls		26-Nov-18 A	10-Dec-21	26-Nov-18	10-Dec-21		34	\$5,828															
P03.08.03.02 Design - Linac Water System Controls -(NEP38320)		26-Nov-18 A	30-Nov-18 A	26-Nov-18	30-Nov-18		0	\$0															
P383D71	KL04 Controls: Design	26-Nov-18 A	30-Nov-18 A	26-Nov-18	30-Nov-18	100%	0	\$0	Karen White														
P03.08.03.04 Installation - Linac Water System Controls		22-Oct-21	10-Dec-21	22-Oct-21	10-Dec-21		34	\$5,828															
P3831148	KL04 Controls: PLC and EPICS Integration	22-Oct-21	28-Oct-21	22-Oct-21	28-Oct-21	0%	5	\$4,371	Karen White														
P3831158	KL04 Controls: Installation Support	06-Dec-21	10-Dec-21	06-Dec-21	10-Dec-21	0%	5	\$1,457	Karen White														
P.03.09 RF/SCL Global Controls		03-Oct-16 A	06-May-24	03-Oct-16	06-May-24		724	\$458,354															
P03.09.01 Management and System Integration - RF/SCL Global Controls		03-Oct-16 A	07-Mar-24	03-Oct-16	07-Mar-24		683	\$128,050															
P03.09.01.01 Management and System Integration - RF/SCL Global Controls - (NEP39110)		03-Oct-16 A	07-Mar-24	03-Oct-16	07-Mar-24		683	\$128,050															
P391M1	WBS Management P.3.9 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White														
P391M35	CAM L3/L4 Management P.3.9.2 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White														
P391M51	CAM L3/L4 Management P.3.9.3 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White														
P391M65	CAM L3/L4 Management P.3.9.4 FY17	03-Oct-16 A	29-Sep-17 A	03-Oct-16	29-Sep-17	100%	0	\$0	Karen White														
P391M4	WBS Management P.3.9 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White														
P391M36	CAM L3/L4 Management P.3.9.2 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White														
P391M52	CAM L3/L4 Management P.3.9.3 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White														
P391M66	CAM L3/L4 Management P.3.9.4 FY18 (Oct through Feb)	02-Oct-17 A	01-May-18 A	02-Oct-17	01-May-18	100%	0	\$0	Karen White														

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										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P391M6	WBS Management P.3.9 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P391M39	CAM L3/L4 Management P.3.9.2 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P391M53	CAM L3/L4 Management P.3.9.3 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P391M67	CAM L3/L4 Management P.3.9.4 FY18 (May through Sep)	01-May-18 A	28-Sep-18 A	01-May-18	28-Sep-18	100%	0	\$0	Karen White															
P391M11	WBS Management P.3.9 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P391M55	CAM L3/L4 Management P.3.9.3 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P391M69	CAM L3/L4 Management P.3.9.4 FY19 (LOE)	01-Oct-18 A	29-Mar-19 A	01-Oct-18	29-Mar-19	100%	0	\$0	Karen White															
P391M55B	CAM L3/L4 Management P.3.9.3 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P391M69B	CAM L3/L4 Management P.3.9.4 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P391M11B	WBS Management P.3.9 FY19 (LOE) - Continued	01-Apr-19 A	30-Aug-19 A	01-Apr-19	30-Aug-19	100%	0	\$0	Karen White															
P391M11C	WBS Management P.3.9 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P391M55C	CAM L3/L4 Management P.3.9.3 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P391M69C	CAM L3/L4 Management P.3.9.4 FY19 (LOE) - (Sep19 Only)	03-Sep-19 A	30-Sep-19 A	03-Sep-19	30-Sep-19	100%	0	\$0	Karen White															
P391M16	WBS Management P.3.9 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P391M43	CAM L3/L4 Management P.3.9.2 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P391M57	CAM L3/L4 Management P.3.9.3 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P391M71	CAM L3/L4 Management P.3.9.4 FY20 (LOE) (Oct19 - Mar20)	01-Oct-19 A	31-Mar-20 A	01-Oct-19	31-Mar-20	100%	0	\$0	Karen White															
P391M16a	WBS Management P.3.9 FY20a (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P391M71a	CAM L3/L4 Management P.3.9.4 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P391M57a	CAM L3/L4 Management P.3.9.3 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P391M43a	CAM L3/L4 Management P.3.9.2 FY20 (LOE) (Apr20 - Sep20)	01-Apr-20 A	30-Sep-20 A	01-Apr-20	30-Sep-20	100%	0	\$0	Karen White															
P391M21	WBS Management P.3.9 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P391M45	CAM L3/L4 Management P.3.9.2 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P391M59	CAM L3/L4 Management P.3.9.3 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P391M73	CAM L3/L4 Management P.3.9.4 FY21 (LOE) Part 1 (Oct20 Only)	01-Oct-20 A	30-Oct-20 A	01-Oct-20	30-Oct-20	100%	0	\$0	Karen White															
P391M21a	WBS Management P.3.9 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$17,213	Karen White															
P391M45a	CAM L3/L4 Management P.3.9.2 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$3,622	Karen White															
P391M73a	CAM L3/L4 Management P.3.9.4 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$3,622	Karen White															
P391M59a	CAM L3/L4 Management P.3.9.3 FY21 (LOE) Part 2 (Nov20 - Feb21)	02-Nov-20 A	01-Mar-21 A	02-Nov-20	26-Feb-21	100%	0	\$5,452	Karen White															
P391M21b	WBS Management P.3.9 FY21 (LOE) Part 3 (Mar21 - Sep21)	01-Mar-21 A	30-Sep-21	01-Mar-21	30-Sep-21	42.67%	86	\$37,020	Karen White															
P391M26	WBS Management P.3.9 FY22 (LOE)	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0%	247	\$42,794	Karen White															
P391MS01	RF/SCL Global Controls Installation Complete (MS)		19-Aug-22		19-Aug-22	0%	0	\$0	Karen White															
P391M28	WBS Management P.3.9 FY23 (LOE)	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0%	245	\$13,142	Karen White															

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										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P391M30	WBS Management P.3.9 FY24 (LOE)	02-Oct-23	07-Mar-24	02-Oct-23	07-Mar-24	0%	105	\$5,184	Karen White															
P03.09.02 Linac/SCL Timing/MPS																								
P03.09.02.02 Design - Linac/SCL Timing/MPS - (NEP39220)																								
P392D36	Revise timing link signal distribution schematic drawings	03-Sep-19 A	15-Nov-19 A	03-Sep-19	15-Nov-19	100%	0	\$0	Karen White															
P392D91	Revise MPS installation schematic drawings	19-Sep-19 A	15-Nov-19 A	19-Sep-19	15-Nov-19	100%	0	\$0	Karen White															
P03.09.02.03 Procure/Fab - Linac/SCL Timing/MPS - (NEP39231)																								
P392P142	Procure and receive ICS Global Controls cables (Bluehose, Timing fibers, MPS Fibers, MPS Copper)	04-Jan-21 A	14-Jun-21	04-Jan-21	29-Mar-21	66%	10	\$9,533	Karen White															
P392P806	Procure and Receive ICS cable ends for Phase 1 (fiber and copper)	04-Jan-21 A	14-May-21 A	04-Jan-21	29-Mar-21	100%	0	\$2,027	Karen White															
P392P46	Test timing hardware (Timing Receiver Cards, HVCM fiber fan-out modules, timing link fan-outs)	12-Mar-21 A	14-May-21 A	01-Feb-21	26-Feb-21	100%	0	\$9,174	Karen White															
P392P101	Assemble transition board assemblies	15-Apr-21 A	21-May-21 A	01-Mar-21	26-Mar-21	100%	0	\$2,294	Karen White															
P392P106	Assemble terminal block assemblies	15-Apr-21 A	30-Apr-21 A	01-Mar-21	26-Mar-21	100%	0	\$2,523	Karen White															
P392P111	Test new MPS nodes	24-May-21 A	24-May-21 A	01-Mar-21	26-Mar-21	100%	0	\$1,147	Karen White															
P03.09.02.04 Installation - Linac/SCL Timing/MPS - (NEP39240)																								
P392I126	Install HVCM EPICS software Phase 1	03-Aug-21	30-Aug-21	02-Jul-21	30-Jul-21	0%	20	\$6,424	Karen White															
P392I146	MPS and Timing node installation Phase 1	08-Sep-21	21-Sep-21	02-Aug-21	13-Aug-21	0%	10	\$8,191	Karen White															
P392I76	MPS and Timing system interface start-up and troubleshooting, Phase 1	22-Sep-21	28-Sep-21	16-Aug-21	20-Aug-21	0%	5	\$1,835	Karen White															
P392I131	Install HVCM EPICS software Phase 2	17-Nov-21	16-Dec-21	06-Oct-21	02-Nov-21	0%	20	\$6,676	Karen White															
P392I151	MPS and Timing node installation Phase 2	17-Dec-21	10-Jan-22	03-Nov-21	16-Nov-21	0%	10	\$8,504	Karen White															
P392I81	MPS and Timing system interface start-up and troubleshooting, Phase 2	11-Jan-22	18-Jan-22	17-Nov-21	23-Nov-21	0%	5	\$1,904	Karen White															
P392I136	Install HVCM EPICS software Phase 3	01-Mar-22	28-Mar-22	18-Jan-22	14-Feb-22	0%	20	\$6,676	Karen White															
P392I156	MPS and Timing node installation Phase 3	29-Mar-22	11-Apr-22	15-Feb-22	28-Feb-22	0%	10	\$8,504	Karen White															
P392I86	MPS and Timing system interface start-up and troubleshooting, Phase 3	12-Apr-22	19-Apr-22	01-Mar-22	07-Mar-22	0%	5	\$1,904	Karen White															
P03.09.03 Linac/SCL Protection System																								
P03.09.03.02 Design - Linac/SCL Protection System - (NEP39320)																								
P393D166	Design PPS-HVCM Interface - Part 1	02-Jul-18 A	28-Sep-18 A	02-Jul-18	28-Sep-18	100%	0	\$0	Karen White															
P393D166B	Design PPS-HVCM Interface - Continued 90%	01-Oct-18 A	04-Feb-19 A	01-Oct-18	04-Feb-19	100%	0	\$0	Karen White															
P393D46	Design PPS-RF XMTR Interface	30-Nov-18 A	28-Feb-19 A	30-Nov-18	28-Feb-19	100%	0	\$0	Karen White															
P393D56	Internal Design Reviews	01-Feb-19 A	29-Mar-19 A	01-Feb-19	29-Mar-19	100%	0	\$0	Karen White															
P393D56B	Internal Design Reviews - Continued	08-Jul-19 A	18-Jul-19 A	08-Jul-19	18-Jul-19	100%	0	\$0	Karen White															
P393D71	Revise Requirements and Specifications	19-Jul-19 A	30-Aug-19 A	19-Jul-19	30-Aug-19	100%	0	\$0	Karen White															
P393D71b	Revise Requirements and Specifications - Continued	03-Sep-19 A	11-Dec-19 A	03-Sep-19	11-Dec-19	100%	0	\$0	Karen White															
P393D510	Procure Parts and Assemble Interface Chassis Test Fixture	03-Aug-20 A	28-Aug-20 A	03-Aug-20	28-Aug-20	100%	0	\$0	Karen White															
P393D520	Adjustment for previous Design PPU Scope of CAB04 Cabinet	03-Aug-20 A	31-Aug-20 A	03-Aug-20	31-Aug-20	100%	0	\$0	Karen White															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29
										F	F	F	F	F	F	F	F	F	F	F	F	F	F
P393D87	Correction of erroneous charges in October 2020	02-Nov-20 A	02-Nov-20 A	02-Nov-20	02-Nov-20	100%	0	(\$4,892)	Karen White														
P393D86	Design Linac SW Revision	01-Jun-21*	11-Jun-21	01-Apr-21	14-Apr-21	0%	9	\$2,348	Karen White														
P393D550	Update Linac PPS Certification Procedure to add PPS Scope of CAB 04	01-Jun-21	22-Jun-21	30-Nov-20	07-Jan-21	0%	16	\$1,403	Karen White														
P393D91	Test Linac SW Updates	14-Jun-21	09-Aug-21	15-Apr-21	10-Jun-21	0%	40	\$3,468	Karen White														
P393D530	Prepare CAB04 Software Modifications (PPU Scope)	14-Jun-21	26-Aug-21	15-Apr-21	29-Jun-21	0%	53	\$17,973	Karen White														
P393D156	Review/Update Certification Procedures	10-Aug-21	07-Sep-21	11-Jun-21	09-Jul-21	0%	20	\$1,920	Karen White														
P393D540	Review CAB04 Software Modifications (PPU Scope)	27-Aug-21	08-Sep-21	30-Jun-21	12-Jul-21	0%	8	\$3,855	Karen White														
P393D136	Complete Change Documentation Process.	08-Sep-21	02-Nov-21	12-Jul-21	03-Sep-21	0%	40	\$13,853	Karen White														
P03.09.03.04 Installation - Linac/SCL Protection System - (NEP39340)		07-Dec-20 A	06-May-24	30-Nov-20	06-May-24		654	\$89,290															
P03.09.03.04.01 Phase 1 Installation		07-Dec-20 A	30-Sep-22	30-Nov-20	30-Sep-22		263	\$60,728															
P393i510	Remove Existing CAB04 (PPU Scope)	07-Dec-20 A	10-Dec-20 A	01-Dec-20	04-Dec-20	100%	0	\$6,815	Karen White														
P393i520	Install PPU Scope of CAB04 Replacement	07-Dec-20 A	08-Dec-20 A	07-Dec-20	08-Dec-20	100%	0	\$5,191	Karen White														
P393i530	Terminate Cables PPU Scope of CAB04 Replacement	09-Dec-20 A	15-Dec-20 A	09-Dec-20	18-Dec-20	100%	0	\$7,890	Karen White														
P393i500	Modify 4 Beam Shutdown Stations	11-Dec-20 A	14-Dec-20 A	30-Nov-20	04-Dec-20	100%	0	\$1,689	Karen White														
P393i540	Field Checkout PPU Scope of CAB04 Replacement	16-Dec-20 A	18-Dec-20 A	21-Dec-20	08-Jan-21	100%	0	\$24,274	Karen White														
P393i550	Cab04 Ready for Certification (PPU Scope)		18-Dec-20 A		08-Jan-21	100%	0	\$0	Karen White														
P393i141	Create Installation Work Packages for RF/SCL PPS (Phase 1)	09-Sep-21	22-Sep-21	11-Aug-21	24-Aug-21	0%	10	\$1,358	Karen White														
P393i106	Install HVCM PPS Interface Chassis (Phase 1) (For SCR Cabinet)	23-Sep-21	20-Oct-21	25-Aug-21	22-Sep-21	0%	20	\$1,276	Karen White														
P393i111	Install RF XMTR PPS Interface Chassis (Phase 1)	12-Jan-22	09-Feb-22	11-Nov-21	10-Dec-21	0%	20	\$1,290	Karen White														
P393i146	Terminate Cables PPS (Phase 1)	10-Feb-22	10-Feb-22	13-Dec-21	13-Dec-21	0%	1	\$1,986	Karen White														
P393i116	Install Linac PPS PLC SW (Phase 1)	21-Mar-22	01-Apr-22	21-Mar-22	01-Apr-22	0%	10	\$915	Karen White														
P393i121	PPS Integration Tests (Phase 1)	04-Apr-22	18-Apr-22	04-Apr-22	18-Apr-22	0%	10	\$3,529	Karen White														
P393i126	PPS Certification (Phase 1)	15-Sep-22	16-Sep-22	15-Sep-22	16-Sep-22	0%	2	\$3,428	Karen White														
P393i131	Update Documentation to As-Built (Phase 1)	19-Sep-22	30-Sep-22	19-Sep-22	30-Sep-22	0%	10	\$1,086	Karen White														
P03.09.03.04.02 Phase 2 Installation		09-Dec-21	04-Apr-23	09-Dec-21	04-Apr-23		322	\$14,192															
P393i171	Create Installation Work Packages for RF/SCL PPS (Phase 2)	09-Dec-21	22-Dec-21	09-Dec-21	22-Dec-21	0%	10	\$1,409	Karen White														
P393i191	Install HVCM PPS Interface Chassis (Phase 2) (For SCR Cabinet)	03-Jan-22	31-Jan-22	03-Jan-22	31-Jan-22	0%	20	\$1,290	Karen White														
P393i211	Install RF XMTR PPS Interface Chassis (Phase 2)	25-Mar-22	22-Apr-22	02-Mar-22	29-Mar-22	0%	20	\$1,290	Karen White														
P393i241	Terminate Cables PPS (Phase 2)	25-Apr-22	25-Apr-22	30-Mar-22	30-Mar-22	0%	1	\$1,986	Karen White														
P393i231	PPS Integration Tests (Phase 2)	26-Apr-22	04-May-22	19-Apr-22	28-Apr-22	0%	9	\$3,529	Karen White														
P393i276	PPS Post Maintenance Test (Phase 2) Same Logic as Phase 1 PPS Cert	20-Mar-23	21-Mar-23	20-Mar-23	21-Mar-23	0%	2	\$3,559	Karen White														
P393i261	Update Documentation to As-Built (Phase 2)	22-Mar-23	04-Apr-23	22-Mar-23	04-Apr-23	0%	10	\$1,127	Karen White														
P03.09.03.04.03 Phase 3 Installation		23-Feb-22	06-May-24	11-Jan-22	06-May-24		545	\$14,371															

Activity ID	Activity Name	Start	Finish	BL Start	BL Finish	% Complete	Rem Dur	Budgeted Total Cost	CAM	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	29									
										F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
P3931176	Create Installation Work Packages for RF/SCL PPS (Phase 3)	23-Feb-22	08-Mar-22	11-Jan-22	25-Jan-22	0%	10	\$1,409	Karen White																							
P3931196	Install HVCM PPS Interface Chassis (Phase 3) (For SCR Cabinet)	09-Mar-22	20-Apr-22	26-Jan-22	08-Mar-22	0%	30	\$1,290	Karen White																							
P3931216	Install RF XMTR PPS Interface Chassis (Phase 3)	22-Apr-22	19-May-22	13-Apr-22	11-May-22	0%	20	\$1,290	Karen White																							
P3931251	Terminate Cables PPS (Phase 3)	20-May-22	20-May-22	12-May-22	12-May-22	0%	1	\$1,986	Karen White																							
P3931236	PPS Integration Tests (Phase 3)	08-Aug-22	19-Aug-22	08-Aug-22	19-Aug-22	0%	10	\$3,529	Karen White																							
P3931286	PPS Post Maintenance Test (Phase 3) Same Logic as Phase 1 PPS Cert	19-Apr-24	22-Apr-24	19-Apr-24	22-Apr-24	0%	2	\$3,695	Karen White																							
P3931266	Update Documentation to As-Built (Phase 3)	23-Apr-24	06-May-24	23-Apr-24	06-May-24	0%	10	\$1,171	Karen White																							
P.03.09.04 Linac/SCL Networking and Computing Infrastructure		01-Oct-19 A	20-Apr-22	01-Oct-19	08-Mar-22		219	\$123,773																								
P.03.09.04.02 Design - Linac/SCL Networking and Computing Infrastructure - (NEP39420)		01-Oct-19 A	27-Nov-19 A	01-Oct-19	27-Nov-19		0	\$0																								
P394D36	Comm Room 6 rack layout	01-Oct-19 A	15-Nov-19 A	01-Oct-19	15-Nov-19	100%	0	\$0	Karen White																							
P394D56	Modify rack design SCL_ICS: Cab35S03	15-Oct-19 A	15-Nov-19 A	15-Oct-19	15-Nov-19	100%	0	\$0	Karen White																							
P394D61	Modify rack design SCL_ICS: Cab40S03	15-Oct-19 A	15-Nov-19 A	15-Oct-19	15-Nov-19	100%	0	\$0	Karen White																							
P394D41	Design rack SCL_ICS: Cab51S03	15-Oct-19 A	15-Nov-19 A	15-Oct-19	15-Nov-19	100%	0	\$0	Karen White																							
P394D46	Design rack SCL_ICS: Cab45S03	15-Oct-19 A	15-Nov-19 A	15-Oct-19	15-Nov-19	100%	0	\$0	Karen White																							
P394D51	Modify rack design Comm Room 5	15-Oct-19 A	15-Nov-19 A	15-Oct-19	15-Nov-19	100%	0	\$0	Karen White																							
P394D66	Field cable design for Zone 1	18-Nov-19 A	27-Nov-19 A	18-Nov-19	27-Nov-19	100%	0	\$0	Karen White																							
P394D71	Field cable design for Zone 2	18-Nov-19 A	27-Nov-19 A	18-Nov-19	27-Nov-19	100%	0	\$0	Karen White																							
P394D76	Field cable design for Zone 3	18-Nov-19 A	27-Nov-19 A	18-Nov-19	27-Nov-19	100%	0	\$0	Karen White																							
P.03.09.04.03 Procure/Fab - Linac/SCL Networking and Computing Infrastructure - (NEP39430)		18-Dec-20 A	02-Dec-21	04-Jan-21	19-Oct-21		129	\$77,935																								
P394P804	Procure and Receive Communication (Network) cables (includes fiber and copper)	18-Dec-20 A	06-Apr-21 A	04-Jan-21	29-Mar-21	100%	0	\$6,292	Karen White																							
P394P96	Procure and Receive Network and rack hardware for SCL_CTL: Cab50S03 (Phase 1)	15-Mar-21 A	30-Apr-21 A	01-Apr-21	15-Apr-21	100%	0	\$15,856	Karen White																							
P394P116	Procure and Receive Network and rack hardware for SCL_CTL: CabCR06S02 (Phase 1)	15-Mar-21 A	30-Apr-21 A	01-Apr-21	15-Apr-21	100%	0	\$10,656	Karen White																							
P394P126	Procure and Receive Computer equipment (PC and monitor)	01-Jun-21*	27-Jul-21	16-Apr-21	11-Jun-21	0%	40	\$5,292	Karen White																							
P394P121	Procure and receive wall mounting hardware for terminals	01-Jun-21	14-Jun-21	16-Apr-21	29-Apr-21	0%	10	\$1,957	Karen White																							
P394P86	Assemble wall terminal, prepare operating system and load EPICS	15-Jun-21	28-Jun-21	30-Apr-21	13-May-21	0%	10	\$4,128	Karen White																							
P394P111	Procure and Receive Network and rack hardware for SCL_CTL: CabCR05S02 (Phase 2)	17-Aug-21	30-Aug-21	06-Jul-21	19-Jul-21	0%	10	\$8,598	Karen White																							
P394P91	Procure and Receive Network and rack hardware for SCL_CTL: Cab44S04 (Phase 3)	17-Nov-21	02-Dec-21	06-Oct-21	19-Oct-21	0%	10	\$15,252	Karen White																							
P394P106	Procure and Receive Network and rack hardware for SCL_CTL: Cab40S03 (Phase 3)	17-Nov-21	02-Dec-21	06-Oct-21	19-Oct-21	0%	10	\$9,902	Karen White																							
P.03.09.04.04 Installation - Linac/SCL Networking and Computing Infrastructure - (NEP39440)		08-Sep-21	20-Apr-22	27-Jul-21	08-Mar-22		150	\$45,838																								
P.03.09.04.04.01 Phase 1 Installation		08-Sep-21	05-Oct-21	27-Jul-21	23-Aug-21		20	\$17,637																								
P394I196	Install equipment and patch cables SCL_CTL: CabCR06S02 (Phase 1)	08-Sep-21	21-Sep-21	27-Jul-21	09-Aug-21	0%	10	\$1,376	Karen White																							
P394I191	Install equipment and patch cables SCL_CTL: Cab50S03 (Phase 1)	08-Sep-21	21-Sep-21	27-Jul-21	09-Aug-21	0%	10	\$2,752	Karen White																							
P394I206	Installation supervision for rack Phase 1	22-Sep-21	05-Oct-21	10-Aug-21	23-Aug-21	0%	10	\$4,639	Karen White																							

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
P394I211	ICS Networking Installation Phase 1	22-Sep-21	05-Oct-21	10-Aug-21	23-Aug-21	0%	10	\$4,639	Karen White															
P394I131	Computing integration and testing support for Phase 1	22-Sep-21	05-Oct-21	10-Aug-21	23-Aug-21	0%	10	\$4,231	Karen White															
P03.09.04.04.02 Phase 2 Installation		10-Dec-21	18-Jan-22	27-Oct-21	23-Nov-21		20	\$15,290																
P394I236	Install equipment and patch cables SCL_CTL:CabCR05S02 (Phase 2)	10-Dec-21	03-Jan-22	27-Oct-21	09-Nov-21	0%	10	\$1,428	Karen White															
P394I246	Installation supervision for rack Phase 2	04-Jan-22	18-Jan-22	10-Nov-21	23-Nov-21	0%	10	\$4,760	Karen White															
P394I251	ICS Networking Installation Phase 2	04-Jan-22	10-Jan-22	10-Nov-21	16-Nov-21	0%	5	\$4,760	Karen White															
P394I136	Computing integration and testing support for Phase 2	04-Jan-22	18-Jan-22	10-Nov-21	23-Nov-21	0%	10	\$4,343	Karen White															
P03.09.04.04.03 Phase 3 Installation		23-Mar-22	20-Apr-22	09-Feb-22	08-Mar-22		20	\$12,910																
P394I276	Install equipment and patch cables SCL_CTL:Cab40S03 and SCL_CTL:Cab44S04 (Phase 3)	23-Mar-22	05-Apr-22	09-Feb-22	22-Feb-22	0%	10	\$1,428	Karen White															
P394I286	Installation supervision for rack Phase 3	06-Apr-22	20-Apr-22	23-Feb-22	08-Mar-22	0%	10	\$2,380	Karen White															
P394I291	ICS Networking Installation Phase 3	06-Apr-22	20-Apr-22	23-Feb-22	08-Mar-22	0%	10	\$4,760	Karen White															
P394I141	Computing integration and testing support for Phase 3	06-Apr-22	20-Apr-22	23-Feb-22	08-Mar-22	0%	10	\$4,343	Karen White															