

POM02 sPHENIX WBS 1.x, 2.x October 2022			sPHENIX MIE Full Schedule			Page 1 of 18 pages			18-Nov-22 11:02	
Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
POM02 POM02 sPHENIX WBS 1.x, 2.x October 2022			01-Feb-17 A	29-Dec-22	14-Nov-22	01-Feb-17	29-Dec-22	45119	\$25,587,692.18	
POM02.01 MIE Project			01-Feb-17 A	29-Dec-22	14-Nov-22	01-Feb-17	29-Dec-22	45119	\$25,587,692.18	
POM02.01.01 Project Management			01-Feb-17 A	29-Dec-22		01-Feb-17	29-Dec-22	5830	\$1,951,678.54	
S1001839	Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$24,833.89	
S102100	Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY17	100%	01-Feb-17 A	28-Sep-18 A		01-Feb-17	28-Sep-18	0	\$0.00	
S102300	Actuals - Labor - A - MIE - sPHENIX Project Management FY17	100%	01-Feb-17 A	29-Sep-17 A		01-Feb-17	29-Sep-17	641	\$107,106.54	
S102400	Actuals - Labor - A - MIE - sPHENIX Project Management FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	1694	\$283,043.66	
S102500	Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	0	\$610,909.39	
S102605	Actuals - Labor - A - MIE - sPHENIX Project Management FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	69	\$11,566.17	
S102606	Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$328,901.50	
POM02.01.01.01 Management Overview			01-Oct-21 A	29-Dec-22		01-Oct-21	29-Dec-22	0	\$0.00	
S101016	FY22 funding available	100%	01-Oct-21 A			01-Oct-21		0	\$0.00	
S101020	Internal Project Float	0%	15-Nov-22	15-Nov-22		30-Sep-22	30-Sep-22	0	\$0.00	
S101022	Early Project Completion	0%		15-Nov-22			30-Sep-22	0	\$0.00	
S101030	WBS 1X Schedule Contingency	0%	15-Nov-22	29-Dec-22		30-Sep-22	29-Dec-22	0	\$0.00	
S101040	Approve Project Closeout PD-4	0%		29-Dec-22*			29-Dec-22	0	\$0.00	
POM02.01.01.02 Labor by FY			01-Oct-18 A	31-Jan-22 A		01-Oct-18	14-Oct-21	3426	\$542,494.17	
S102900	Mgmt labor - A - MIE, Phase 1 - FY19	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00	
S102905	Mgmt labor - A - MIE, Phase 1 - FY19 split	100%	03-Jun-19 A	30-Sep-19 A		03-Jun-19	30-Sep-19	464	\$71,048.15	
S102910	Mgmt labor - A - MIE, Phase 2 - FY19	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00	
S102915	Mgmt labor - A - MIE, Phase 2 - FY19 split	100%	03-Jun-19 A	30-Sep-19 A		03-Jun-19	30-Sep-19	285	\$43,639.49	
S103000	Mgmt Labor - A - MIE - FY20	100%	01-Oct-19 A	30-Sep-20 A		01-Oct-19	30-Sep-20	1559	\$245,877.14	
S103200	Mgmt Labor - A - MIE - FY21	100%	01-Oct-20 A	30-Sep-21 A		01-Oct-20	29-Sep-21	1050	\$170,568.39	
S103400	Mgmt labor - A - MIE - FY22	100%	01-Oct-21 A	31-Jan-22 A		01-Oct-21	14-Oct-21	68	\$11,360.99	
POM02.01.01.03 Management Travel			01-Oct-18 A	30-Sep-21 A		01-Oct-18	30-Sep-21	0	\$42,823.20	
S104000	Travel FY19	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00	
S104010	Travel FY19 Split	100%	03-Jun-19 A	30-Sep-19 A		03-Jun-19	30-Sep-19	0	\$8,837.55	
S104100	Travel FY20	100%	01-Oct-19 A	30-Sep-20 A		01-Oct-19	30-Sep-20	0	\$27,080.20	
S104200	Travel FY21	100%	01-Oct-20 A	30-Sep-21 A		01-Oct-20	30-Sep-21	0	\$6,905.45	
POM02.01.02 TPC			01-Feb-17 A	14-Nov-22	14-Nov-22	01-Feb-17	30-Sep-22	6251	\$5,676,428.98	
S1000759	Actuals - NonLabor - sPHENIX TPC FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$431,189.26	
S104600	Actuals - Nonlabor - sPHENIX TPC FY17	100%	01-Feb-17 A	29-Sep-17 A		01-Feb-17	29-Sep-17	0	\$20,960.99	
S104700	Actuals - Nonlabor - sPHENIX TPC FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	0	\$0.00	
S104710	Actuals - Nonlabor - sPHENIX TPC FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	0	\$274,664.36	
POM02.01.02.01 TPC Mechanics			11-Sep-18 A	31-Jan-22 A		11-Sep-18	20-Jan-22	1500	\$818,873.43	
POM02.01.02.01.01 TPC v1 Field Cage Prototype			11-Sep-18 A	28-May-21 A		11-Sep-18	24-Feb-21	0	\$17,736.73	
S107300	Procure TPC v1 End Cap - Contract Award(s) Phase 1	100%	11-Sep-18 A			11-Sep-18		0	\$0.00	
S107400	Procure TPC v1 End Cap - Contract Award(s) Phase 2	100%	11-Sep-18 A			11-Sep-18		0	\$0.00	
S107600	Procure TPC v1 End Cap - Delivery Acceptance Phase 1	100%	19-Feb-19 A	25-Feb-19 A		19-Feb-19	25-Feb-19	0	\$0.00	
S107700	Procure TPC v1 End Cap - Delivery Acceptance Phase 2	100%	13-Feb-19 A	27-Feb-19 A		13-Feb-19	27-Feb-19	0	\$0.00	
S107900	Procure TPC v1 Central Membrane Parts M&S FY19	100%	18-Oct-18 A	31-May-19 A		18-Oct-18	31-May-19	0	\$0.00	
S107905	Procure TPC v1 Central Membrane Parts M&S FY19 Split	100%	03-Sep-19 A	31-Oct-19 A		03-Jun-19	02-Aug-19	0	\$2,647.84	
S108500	Procure TPC Assembly Fixture M&S	100%	01-Oct-18 A	30-Nov-18 A		01-Oct-18	30-Nov-18	0	\$0.00	
S108800	Procure TPC Handling Cart M&S	100%	01-Apr-20 A	28-May-21 A		28-Dec-20	24-Feb-21	0	\$15,088.90	
POM02.01.02.01.02 TPC v2 Field Cage			10-Oct-19 A	14-May-20 A		16-Dec-19	30-Apr-20	0	\$169,344.98	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S109400	Procure TPC v2 Mandrel Parts M&S	100%	01-Apr-20 A	30-Apr-20 A		16-Dec-19	12-Feb-20	0	\$11,871.98	
S110100	Procure TPC v2 Outer Field Cage Parts - Contract Award(s)	100%	14-May-20 A			28-Jan-20		0	\$0.00	
S110300	Procure TPC v2 Outer Field Cage Parts - Delivery Acceptance	100%	13-Jan-20 A	30-Apr-20 A		25-Mar-20	31-Mar-20	0	\$86,285.50	
S111000	Procure TPC v2 Inner Field Cage Parts - Contract Award(s)	100%	14-Jan-20 A			28-Feb-20		0	\$0.00	
S111200	Procure TPC v2 Inner Field Cage Parts - Delivery Acceptance	100%	14-Jan-20 A	28-Jan-20 A		24-Apr-20	30-Apr-20	0	\$39,325.58	
S111500	Procure TPC Field Cage Prototype v2 End Rings	100%	01-Apr-20 A	30-Apr-20 A		14-Jan-20	11-Mar-20	0	\$22,758.52	
S111800	Procure TPC v2 Central Membrane Parts M&S	100%	10-Oct-19 A	28-Feb-20 A		16-Dec-19	12-Feb-20	0	\$9,103.41	
POM02.01.02.01.03 TPC Final Field Cage			01-Dec-20 A	30-Apr-21 A		16-Jul-20	30-Apr-21	0	\$99,682.30	
S112800	Procure TPC v2 Field Cage Modification Parts M&S	100%	30-Mar-21 A	31-Mar-21 A		16-Jul-20	10-Sep-20	0	\$6,827.55	
S113050	TPC Module technical Support	100%	01-Dec-20 A	30-Apr-21 A		01-Dec-20	30-Apr-21	0	\$92,854.74	
POM02.01.02.01.04 TPC v1 Modules			01-Oct-18 A	30-Nov-18 A		01-Oct-18	30-Nov-18	0	\$0.00	
POM02.01.02.01.04.04 TPC v1b Module Prototype			01-Oct-18 A	30-Nov-18 A		01-Oct-18	30-Nov-18	0	\$0.00	
S116000	Procure TPC v1b Module Padplane M&S	100%	01-Oct-18 A	29-Oct-18 A		01-Oct-18	29-Oct-18	0	\$0.00	
S116300	Procure TPC v1b Module GEMs M&S	100%	01-Oct-18 A	30-Nov-18 A		01-Oct-18	30-Nov-18	0	\$0.00	
POM02.01.02.01.05 TPC v2 Modules			14-Jan-20 A	24-Apr-20 A		31-Dec-19	05-Mar-20	0	\$14,679.24	
POM02.01.02.01.05.02 TPC v2 Module Common Mechanics			14-Jan-20 A	24-Apr-20 A		31-Dec-19	12-Feb-20	0	\$3,072.40	
S117100	Procure TPC v2 Module Strongback M&S	100%	18-Feb-20 A	31-Mar-20 A		31-Dec-19	29-Jan-20	0	\$1,365.51	
S117400	Procure TPC v2 Module Frames M&S	100%	04-Feb-20 A	24-Apr-20 A		31-Dec-19	12-Feb-20	0	\$1,137.93	
S117700	Procure TPC v2 Module Grid Parts M&S	100%	14-Jan-20 A	28-Jan-20 A		31-Dec-19	29-Jan-20	0	\$568.96	
POM02.01.02.01.05.03 TPC v2a Module Prototype			26-Mar-20 A	31-Mar-20 A		31-Dec-19	05-Mar-20	0	\$11,606.84	
S118100	Procure TPC v2a Module Padplane M&S	100%	26-Mar-20 A	31-Mar-20 A		31-Dec-19	29-Jan-20	0	\$4,210.33	
S118400	Procure TPC v2a Module GEMs M&S	100%	26-Mar-20 A	31-Mar-20 A		08-Jan-20	05-Mar-20	0	\$7,396.52	
POM02.01.02.01.06 TPC Production GEM Acquisition			07-May-20 A	17-Apr-21 A		12-Aug-20	02-Mar-21	0	\$198,471.81	
S119700	Procure Trained Technician to work in CERN Shop on TPC GEMs - Contract Award(s)	100%	07-May-20 A			12-Aug-20		0	\$0.00	
S119800	Procure Production of TPC GEM foils (includes Technician fees) - Contract Award(s)	100%	20-May-20 A			12-Aug-20		0	\$0.00	
S120000	Procure Trained Technician to work in CERN Shop on TPC GEMs - Delivery Acceptan	100%	14-May-20 A	20-May-20 A		19-Aug-20	25-Aug-20	0	\$44,470.14	
S120100	Procure Production of TPC GEM foils (includes Technician fees) - Delivery Acceptance	100%	21-May-20 A	17-Apr-21 A		26-Aug-20	02-Mar-21	0	\$154,001.67	
POM02.01.02.01.07 TPC High Voltage System			08-Jan-20 A	30-Oct-20 A		26-May-20	29-Oct-20	0	\$138,191.35	
S120400	Procure TPC Membrane HV Cables - M&S	100%	08-Jan-20 A	20-Jan-20 A		26-May-20	21-Jul-20	0	\$682.76	
S121100	Procure TPC GEM HV Power Supplies - Contract Award(s)	100%	15-Jun-20 A			26-Aug-20		0	\$0.00	
S121200	Procure TPC GEM HV Membrane Power Supply - Contract Award(s)	100%	22-Apr-20 A			26-Aug-20		0	\$0.00	
S121400	Procure TPC GEM HV Power Supplies - Delivery Acceptance	100%	22-Sep-20 A	30-Oct-20 A		23-Oct-20	29-Oct-20	0	\$125,263.37	
S121500	Procure TPC GEM HV Membrane Power Supply - Delivery Acceptance	100%	06-Oct-20 A	13-Oct-20 A		23-Oct-20	29-Oct-20	0	\$12,245.22	
POM02.01.02.01.08 TPC Assembly			01-Feb-21 A	31-Jan-22 A		01-Feb-21	20-Jan-22	1500	\$180,767.02	
S121605	TPC Assembly Mechanical Engineering Support	100%	01-Feb-21 A	31-Jan-22 A		01-Feb-21	20-Jan-22	1500	\$156,234.24	
S121650	Procure Piping Fittings	100%	17-May-21 A	31-Aug-21 A		03-May-21	14-May-21	0	\$1,279.07	
S121950	TPC Assembly technical Support	100%	01-Jun-21 A	31-Jan-22 A		03-May-21	15-Oct-21	0	\$23,253.71	
POM02.01.02.02 TPC R1 Modules			31-Jul-17 A	26-Jul-21 A		31-Jul-17	15-Apr-21	2003	\$330,508.25	
POM02.01.02.02.01 TPC R1 Module Factory Preparation			01-Oct-18 A	31-Jul-19 A		01-Oct-18	10-Jul-19	3	\$2,942.90	
S122000	Prepare TPC R1 Factory Clean Facility Labor	100%	01-Oct-18 A	06-Nov-18 A		01-Oct-18	06-Nov-18	0	\$0.00	
S122100	Prepare TPC R1 Factory Clean Facility M&S	100%	01-Oct-18 A	06-Nov-18 A		01-Oct-18	06-Nov-18	0	\$0.00	
S122200	Prepare TPC R1 Factory Tooling Labor	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00	
S122202	Prepare TPC R1 Factory Tooling Labor Split	100%	01-Jul-19 A	31-Jul-19 A		03-Jun-19	10-Jul-19	3	\$295.07	
S122300	Prepare TPC R1 Factory Tooling M&S	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00	
S122302	Prepare TPC R1 Factory Tooling M&S Split	100%	01-Jul-19 A	31-Jul-19 A		03-Jun-19	10-Jul-19	0	\$2,647.84	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
POM02.01.02.02.02 TPC R1 Pre-Production Module			30-Nov-18 A	31-Oct-19 A		30-Nov-18	18-Nov-19	80	\$114,036.93	
S122600	Procure TPC R1 Pre-Production Module Stongbacks - M&S	100%	07-Jan-19 A	30-May-19 A		07-Jan-19	30-May-19	0	\$0.00	
S122800	Procure TPC R1 Pre-Production Module Frames - M&S	100%	15-Feb-19 A	30-Apr-19 A		15-Feb-19	30-Apr-19	0	\$0.00	
S123000	Procure TPC R1 Pre-Production Module Grids - M&S	100%	30-Nov-18 A	28-Dec-18 A		30-Nov-18	28-Dec-18	0	\$0.00	
S123200	Procure TPC R1 Pre-Production Module Pad Planes - M&S	100%	07-Jan-19 A	30-Apr-19 A		07-Jan-19	30-Apr-19	0	\$0.00	
S123400	Procure TPC R1 Pre-Production Module GEMs - M&S	100%	15-Feb-19 A	31-May-19 A		15-Feb-19	31-May-19	0	\$0.00	
S123500	Assemble TPC R1 Pre-Production Module in TPC R1 Factory	100%	01-May-19 A	31-May-19 A		01-May-19	31-May-19	0	\$0.00	
S123600	Test TPC R1 Pre-Production Module	100%	01-Jul-19 A	09-Jul-19 A		11-Jul-19	24-Jul-19	80	\$7,868.49	
S123700	Common production line & QA certification	100%	25-Jul-19 A	31-Oct-19 A		25-Jul-19	18-Nov-19	0	\$106,168.45	
POM02.01.02.02.03 TPC R1 Module Production			04-Feb-20 A	26-Jul-21 A		10-Feb-20	15-Apr-21	1920	\$213,528.41	
S124300	Procure TPC R1 Module Parts (Frames) - Contract Award(s)	100%	04-Feb-20 A			10-Feb-20		0	\$0.00	
S124500	Procure TPC R1 Module Parts (Frames) - Delivery Acceptance	100%	17-Mar-20 A	27-May-20 A		07-Apr-20	13-Apr-20	0	\$16,614.85	
S124600	Procure TPC R1 Module Parts (Strongbacks) - Contract Award(s)	100%	04-Feb-20 A			10-Feb-20		0	\$0.00	
S124800	Procure TPC R1 Module Parts (Strongbacks) - Delivery Acceptance	100%	25-Mar-20 A	31-Mar-20 A		07-Apr-20	13-Apr-20	0	\$9,349.20	
S124900	Procure TPC R1 Module Parts (Padplanes) - Contract Award(s)	100%	29-Jan-21 A			10-Feb-20		0	\$0.00	
S125100	Procure TPC R1 Module Parts (Padplanes) - Delivery Acceptance	100%	22-Mar-21 A	29-Mar-21 A		07-Apr-20	13-Apr-20	0	\$50,113.11	
S125200	Procure TPC R1 Module Parts (Grids) - Contract Award(s)	100%	04-Feb-20 A			10-Feb-20		0	\$0.00	
S125400	Procure TPC R1 Module Parts (Grids) - Delivery Acceptance	100%	24-Mar-20 A	31-Mar-20 A		07-Apr-20	13-Apr-20	0	\$11,148.26	
S125500	Build TPC R1 Modules	100%	11-Jan-21 A	26-Jul-21 A		28-Sep-20	01-Apr-21	960	\$63,129.59	
S125600	Test TPC R1 Modules	100%	11-Jan-21 A	26-Jul-21 A		13-Oct-20	15-Apr-21	960	\$63,173.40	
POM02.01.02.02.04 TPC R1 Module Production Procure Contracted Labor and M&S			31-Jul-17 A	02-Jan-20 A		31-Jul-17	01-Oct-19	0	\$0.00	
OBLG126001	TPC R1 Module Production Procure Contracted Labor and M&S SBU, Phase 1 - Oblig	100%	31-Jul-17 A	31-Jul-17 A		31-Jul-17	31-Jul-17	0	\$0.00	
OBLG126002	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phase 1 - Obl	100%	31-Jul-17 A	31-Jul-17 A		31-Jul-17	31-Jul-17	0	\$0.00	
S126000	TPC R1 Module Production Procure Contracted Labor and M&S SBU, Phase 1 - Contr	100%	31-Jul-17 A			31-Jul-17		0	\$0.00	
S126005	TPC R1 Module Production Procure Contracted Labor and M&S SBU, Phase 2 - Contr	100%	12-Sep-19 A			24-Jul-19		0	\$0.00	
S126008	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phase 1 - Coi	100%	31-Jul-17 A			31-Jul-17		0	\$0.00	
S126010	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phase 2 - Coi	100%	02-Jan-20 A			01-Oct-19		0	\$0.00	
POM02.01.02.03 TPC R2 Modules			01-Oct-18 A	29-Oct-20 A		01-Oct-18	13-Apr-20	0	\$105,242.43	
POM02.01.02.03.01 TPC R2 Module Factory Preparation			01-Oct-18 A	31-Jul-19 A		01-Oct-18	31-Jul-19	0	\$3,971.75	
S126300	Prepare TPC R2 Factory Clean Facility M&S	100%	01-Oct-18 A	30-Nov-18 A		01-Oct-18	30-Nov-18	0	\$0.00	
S126500	Prepare TPC R2 Factory Tooling M&S	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00	
S126502	Prepare TPC R2 Factory Tooling M&S Split	100%	01-Jul-19 A	31-Jul-19 A		03-Jun-19	31-Jul-19	0	\$3,971.75	
POM02.01.02.03.02 TPC R2 Pre-Production Module			30-Nov-18 A	20-Aug-19 A		30-Nov-18	19-Jul-19	0	\$2,758.16	
S126800	Procure TPC R2 Pre-Production Module Stongbacks M&S	100%	30-Nov-18 A	29-Mar-19 A		30-Nov-18	29-Mar-19	0	\$0.00	
S127000	Procure TPC R2 Pre-production Module frames - M&S	100%	30-Nov-18 A	29-Mar-19 A		30-Nov-18	29-Mar-19	0	\$0.00	
S127200	Procure TPC R2 Pre-Production Module Grids M&S	100%	30-Nov-18 A	28-Dec-18 A		30-Nov-18	28-Dec-18	0	\$0.00	
S127400	Procure TPC R2 Pre-Production Module Pad Planes M&S	100%	30-Nov-18 A	29-Mar-19 A		30-Nov-18	29-Mar-19	0	\$0.00	
S127600	Procure TPC R2 Pre-Production Module GEMs M&S	100%	30-Nov-18 A	31-May-19 A		30-Nov-18	31-May-19	0	\$0.00	
S127602	Procure TPC R2 Pre-Production Module GEMs M&S Split	100%	01-Aug-19 A	20-Aug-19 A		03-Jun-19	19-Jul-19	0	\$2,758.16	
POM02.01.02.03.03 TPC R2 Module Production			04-Feb-20 A	29-Oct-20 A		10-Feb-20	13-Apr-20	0	\$98,512.51	
S128300	Procure TPC R2 Module Prod. Parts (Frames) - Contract Award(s)	100%	04-Feb-20 A			10-Feb-20		0	\$0.00	
S128500	Procure TPC R2 Module Prod. Parts (Frames) - Delivery Acceptance	100%	18-Mar-20 A	27-May-20 A		07-Apr-20	13-Apr-20	0	\$16,614.85	
S128600	Procure TPC R2 Module Prod. Parts (Strongbacks) - Contract Award(s)	100%	04-Feb-20 A			10-Feb-20		0	\$0.00	
S128800	Procure TPC R2 Module Prod. Parts (Strongbacks) - Delivery Acceptance	100%	17-Mar-20 A	31-Mar-20 A		07-Apr-20	13-Apr-20	0	\$10,450.71	
S128900	Procure TPC R2 Module Prod. Parts (Padplanes) - Contract Award(s)	100%	01-Jul-20 A			10-Feb-20		0	\$0.00	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost
S129100	Procure TPC R2 Module Prod. Parts (Padplanes) - Delivery Acceptance	100%	27-Aug-20 A	29-Oct-20 A		07-Apr-20	13-Apr-20	0	\$60,298.69
S129200	Procure TPC R2 Module Prod. Parts (Grids) - Contract Award(s)	100%	04-Feb-20 A			10-Feb-20		0	\$0.00
S129400	Procure TPC R2 Module Prod. Parts (Grids) - Delivery Acceptance	100%	24-Mar-20 A	31-Mar-20 A		07-Apr-20	13-Apr-20	0	\$11,148.26
POM02.01.02.04 TPC R3 Modules			01-Oct-18 A	22-Jul-20 A		01-Oct-18	13-Apr-20	0	\$145,943.73
POM02.01.02.04.01 TPC R3 Module Factory Preparation			01-Oct-18 A	30-Aug-19 A		01-Oct-18	03-Sep-19	0	\$7,943.51
S129900	Prepare TPC R3a Factory Clean Facility M&S	100%	01-Oct-18 A	15-Mar-19 A		01-Oct-18	15-Mar-19	0	\$0.00
S130100	Prepare TPC R3a Factory Tooling M&S	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00
S130102	Prepare TPC R3a Factory Tooling M&S Split	100%	01-Jul-19 A	30-Aug-19 A		03-Jun-19	03-Sep-19	0	\$3,971.75
S130300	Prepare TPC R3b Factory Clean Facility M&S	100%	01-Oct-18 A	15-Mar-19 A		01-Oct-18	15-Mar-19	0	\$0.00
S130500	Prepare TPC R3b Factory Tooling M&S	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00
S130502	Prepare TPC R3b Factory Tooling M&S Split	100%	01-Aug-19 A	30-Aug-19 A		03-Jun-19	03-Sep-19	0	\$3,971.75
POM02.01.02.04.02 TPC R3 Pre-Production Module			30-Nov-18 A	29-Aug-19 A		30-Nov-18	01-Jul-19	0	\$13,239.18
S130800	Procure TPC R3 Pre-Production Module Stongbacks M&S	100%	01-Mar-19 A	29-Mar-19 A		01-Mar-19	29-Mar-19	0	\$0.00
S131000	Procure TPC R3 Pre-Production Module frames - M&S	100%	01-Aug-19 A	29-Aug-19 A		03-Jun-19	01-Jul-19	0	\$2,206.53
S131200	Procure TPC R3 Pre-Production Module Grids M&S	100%	30-Nov-18 A	28-Dec-18 A		30-Nov-18	28-Dec-18	0	\$0.00
S131400	Procure TPC R3 Pre-Production Module Pad Planes M&S	100%	01-Mar-19 A	29-Mar-19 A		01-Mar-19	29-Mar-19	0	\$0.00
S131600	Procure TPC R3 Pre-Production Module GEMs M&S	100%	01-Aug-19 A	29-Aug-19 A		03-Jun-19	01-Jul-19	0	\$11,032.65
POM02.01.02.04.03 TPC R3 Module Production			04-Feb-20 A	22-Jul-20 A		10-Feb-20	13-Apr-20	0	\$124,761.05
S132500	Procure TPC R3 Module Prod. Parts (Frames) - Contract Award(s)	100%	04-Feb-20 A			10-Feb-20		0	\$0.00
S132700	Procure TPC R3 Module Prod. Parts (Frames) - Delivery Acceptance	100%	18-Mar-20 A	30-Apr-20 A		07-Apr-20	13-Apr-20	0	\$19,138.77
S132800	Procure TPC R3 Module Prod. Parts (Strongbacks) - Contract Award(s)	100%	05-Feb-20 A			10-Feb-20		0	\$0.00
S133000	Procure TPC R3 Module Prod. Parts (Strongbacks) - Delivery Acceptance	100%	17-Mar-20 A	31-Mar-20 A		07-Apr-20	13-Apr-20	0	\$12,246.36
S133100	Procure TPC R3 Module Prod. Parts (Padplanes) - Contract Award(s)	100%	01-Apr-20 A			10-Feb-20		0	\$0.00
S133300	Procure TPC R3 Module Prod. Parts (Padplanes) - Delivery Acceptance	100%	16-Jun-20 A	22-Jul-20 A		07-Apr-20	13-Apr-20	0	\$81,668.93
S133400	Procure TPC R3 Module Prod. Parts (Grids) - Contract Award(s)	100%	05-Feb-20 A			10-Feb-20		0	\$0.00
S133600	Procure TPC R3 Module Prod. Parts (Grids) - Delivery Acceptance	100%	24-Mar-20 A	31-Mar-20 A		07-Apr-20	13-Apr-20	0	\$11,706.98
POM02.01.02.05 TPC FEE			02-Jul-18 A	14-Nov-22	14-Nov-22	02-Jul-18	30-Sep-22	2380	\$1,799,174.32
POM02.01.02.05.01 TPC FEE Prototype v1			01-Oct-18 A	24-May-19 A		01-Oct-18	24-May-19	0	\$0.00
S135500	Assemble and test TPC FEE prototype v1a M&S	100%	01-Oct-18 A	24-May-19 A		01-Oct-18	24-May-19	0	\$0.00
POM02.01.02.05.02 TPC FEE Prototype v2 (Pre-Production)			02-Dec-19 A	30-Oct-20 A		01-Oct-19	05-Feb-20	0	\$23,870.27
S137000	v2 Procure TPC FEE preproduction prototype components M&S	100%	01-Apr-20 A	30-Oct-20 A		01-Oct-19	29-Oct-19	0	\$6,680.76
S137200	v2 Fabricate TPC FEE preproduction prototype boards M&S	100%	01-Apr-20 A	29-May-20 A		30-Oct-19	06-Dec-19	0	\$1,679.58
S137400	v2 Modify TPC FEE Test Stand M&S	100%	02-Dec-19 A	30-Sep-20 A		01-Oct-19	13-Nov-19	0	\$9,103.41
S137600	v2 Assemble and test TPC FEE preproduction prototype M&S	100%	13-Apr-20 A	23-Oct-20 A		09-Dec-19	05-Feb-20	0	\$6,406.52
POM02.01.02.05.03 SAMPA chip 80 nsec			02-Jul-18 A	30-Sep-20 A		02-Jul-18	27-Mar-20	0	\$458,898.37
S138200	SAMPA chip 80 nsec development - Contract Award(s) - Report feasibility of 80ns/20M	100%	02-Jul-18 A			02-Jul-18		0	\$0.00
S138500	SAMPA chip 80 nsec development - Delivery Acceptance - Report feasibility of 80ns/2	100%	14-Mar-19 A	19-Mar-19 A		14-Mar-19	19-Mar-19	0	\$0.00
S138300	SAMPA chip 80 nsec development - Contract Award(s) - Design at Layout level of new	100%	02-Jul-18 A			02-Jul-18		0	\$0.00
S139000	SAMPA chip 80 nsec development - Delivery Acceptance - Design at Layout level of n	100%	25-Apr-19 A	26-Apr-19 A		25-Apr-19	26-Apr-19	0	\$0.00
S138310	SAMPA chip 80 nsec development - Contract Award(s) - Layout finalization for MPW ar	100%	02-Jul-18 A			02-Jul-18		0	\$0.00
S138315	SAMPA chip 80 nsec development - Leadtime - Layout finalization for MPW and submi	100%	24-Apr-19 A	30-Apr-19 A		24-Apr-19	30-Apr-19	0	\$0.00
S139010	SAMPA chip 80 nsec development - Delivery Acceptance - Layout finalization for MPW	100%	01-May-19 A	02-May-19 A		01-May-19	02-May-19	0	\$0.00
S139500	Procure MPW Run of SAMPA v5 components - Contract Award	100%	29-Mar-19 A			29-Mar-19		0	\$0.00
S139700	Procure MPW Run of SAMPA v5 components - Delivery Acceptance	100%	01-May-19 A	02-May-19 A		01-May-19	02-May-19	0	\$0.00
S139705	Procure second phase of SAMPA development - Contract Award	100%	26-Feb-19 A	27-Feb-19 A		26-Feb-19	27-Feb-19	0	\$0.00

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S139710	Procure second phase of SAMPA development - Delivery of Test Boards	100%	03-May-19 A	08-May-19 A		03-May-19	08-May-19	0	\$0.00	
S139715	Procure second phase of SAMPA development - Delivery of Results from first round of	100%	21-May-19 A	28-May-19 A		21-May-19	28-May-19	0	\$0.00	
S139720	Procure second phase of SAMPA development - Delivery of First Chip Layout	100%	02-Jul-19 A	16-Jul-19 A		01-Jul-19	08-Jul-19	0	\$38,614.28	
S139725	Procure second phase of SAMPA development - Delivery of Final Review of test results	100%	17-Jul-19 A	31-Jul-19 A		09-Jul-19	05-Aug-19	0	\$77,228.55	
S139730	Procure second phase of SAMPA development - Delivery of Eng Design Review	100%	01-Aug-19 A	28-Aug-19 A		06-Aug-19	03-Sep-19	0	\$52,405.09	
S139735	Procure second phase of SAMPA development - Delivery of Eng Run Preparation	100%	29-Aug-19 A	30-Aug-19 A		04-Sep-19	01-Oct-19	0	\$22,099.96	
S140200	Procure Engineering Run of Full SAMPA Chip - Contract Award	100%	31-Oct-19 A			15-Nov-19		0	\$0.00	
S140400	Procure Engineering Run of Full SAMPA Chip - Delivery Acceptance	100%	30-Dec-19 A	06-Jul-20 A		14-Feb-20	21-Feb-20	0	\$265,136.71	
S140500	Populate v2 Prototype TPC FEE Board with 80nsec Full SAMPA Chip	100%	03-Aug-20 A	30-Sep-20 A		02-Mar-20	27-Mar-20	0	\$3,413.78	
OBLG138210	SAMPA chip 80 nsec development - Obligation - MPW to Test Design Changes	100%	02-Jul-18 A	02-Jul-18 A		02-Jul-18	02-Jul-18	0	\$0.00	
POM02.01.02.05.04 TPC FEE Production			28-Oct-20 A	14-Nov-22	14-Nov-22	02-Jun-20	30-Sep-22	2380	\$1,316,405.68	
S136300	Procure TPC FEE Cooling System - Contract Award(s)	100%	25-Feb-21 A			02-Jun-20		0	\$0.00	
S136500	Procure TPC FEE Cooling System - Delivery Acceptance	100%	15-Mar-21 A	24-Sep-21 A		21-Dec-20	28-Dec-20	0	\$69,820.96	
S141300	Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Components	100%	29-Jun-21 A			22-Jul-20		0	\$0.00	
S141500	Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Components	100%	15-Mar-21 A	30-Jul-21 A		04-Jan-21	08-Jan-21	0	\$34,429.38	
S141600	Procure TPC FEE Production Components, Phase 2 (All except Optical and SAMPA) -	100%	28-Oct-20 A			22-Jul-20		0	\$0.00	
S141800	Procure TPC FEE Production Components, Phase 2 (All except Optical and SAMPA) -	100%	02-Nov-20 A	27-May-22 A		04-Jan-21	08-Jan-21	0	\$309,547.54	
S142300	Procure TPC FEE LV Power Supplies - Contract Award(s)	100%	20-Jan-21 A			16-Jun-20		0	\$0.00	
S142500	Procure TPC FEE LV Power Supplies - Delivery Acceptance	100%	25-Jan-21 A	31-Aug-22 A		15-Dec-20	21-Dec-20	0	\$220,595.02	
S143000	Procure TPC FEE Production Boards & Assembly - Contract Award(s)	100%	30-Apr-21 A			11-Jan-21		0	\$0.00	
S143200	Procure TPC FEE Production Boards & Assembly - Delivery Acceptance	100%	11-Oct-21 A	31-Jan-22 A		31-Mar-21	06-Apr-21	0	\$175,243.60	
S143250	TPC Front End Electronics Protection Components	100%	15-Feb-21 A	30-Jul-21 A		01-Dec-20	30-Apr-21	0	\$174,102.65	
S143270	TPC FEE Electrical Engineering Support 1	100%	01-Feb-21 A	28-Feb-22 A		01-Feb-21	30-Dec-21	1500	\$119,731.10	
S143271	TPC FEE Electrical Engineering Support 2	100%	01-Feb-21 A	31-Jan-22 A		01-Feb-21	30-Dec-21	0	\$0.00	
S143272	TPC FEE Electrical Engineering Support 3	100%	01-Apr-22 A	30-Sep-22 A		01-Mar-22	30-Sep-22	880	\$118,108.29	
S143280	JACK Board parts	100%	01-Apr-22 A	27-May-22 A		01-Mar-22	30-Sep-22	0	\$55,780.68	
S143285	JACK Board boards and assembly	94.04%	01-Apr-22 A	14-Nov-22	14-Nov-22	01-Mar-22	30-Sep-22	0	\$39,046.47	
POM02.01.02.06 TPC DAM			26-Mar-18 A	28-Oct-22 A		26-Mar-18	30-Sep-22	368	\$759,115.36	
POM02.01.02.06.02 TPC DAM Evaluation -- FELIX 2.0			26-Mar-18 A	28-Feb-20 A		26-Mar-18	24-Sep-19	0	\$87,117.12	
S144400	Procure TPC DAM Felix 2.0 Boards Evaluation - Contract Award(s)	100%	26-Mar-18 A			26-Mar-18		0	\$0.00	
S145100	Procure TPC DAM Felix 2.0 Boards - Optical - Contract Award(s)	100%	01-Aug-19 A			03-Jun-19		0	\$0.00	
S145700	Procure TPC DAM Felix 2.0 Boards Throughput - Delivery Acceptance	100%	01-Aug-19 A	28-Feb-20 A		02-Jul-19	09-Jul-19	0	\$81,116.46	
S145750	Procure Full Set of Data Fibers for Design Validation - M&S	100%	01-Aug-19 A	14-Aug-19 A		03-Jun-19	14-Jun-19	0	\$3,172.99	
S146300	Miscellaneous Parts for TPC DAM FPGA Algorithm Development - Round 1	100%	01-Aug-19 A	30-Aug-19 A		03-Jun-19	24-Sep-19	0	\$2,827.67	
POM02.01.02.06.03 TPC DAM Production			27-Aug-20 A	28-Oct-22 A		18-Mar-20	30-Sep-22	368	\$671,998.25	
S147100	Procure TPC DAM Felix 2.0 Boards - Contract Award(s)	100%	27-Aug-20 A			18-Mar-20		0	\$0.00	
S147300	Procure TPC DAM Felix 2.0 Boards - Delivery Acceptance	100%	02-Dec-20 A	30-Aug-21 A		04-Jan-21	08-Jan-21	0	\$151,309.13	
S147350	Procure TPC DAM Felix 2.0 Optical Components - Contract Award(s)	100%	16-Mar-22 A			18-Mar-20		0	\$0.00	
S147370	Procure TPC DAM Felix 2.0 Optical Components - Contract/PO - Delivery Acceptance	100%	06-May-22 A	27-May-22 A		04-Jan-21	08-Jan-21	0	\$93,719.45	
S147380	TPC DAM Electrical Engineering Support	100%	01-Feb-21 A	28-Feb-22 A		01-Feb-21	30-Dec-21	368	\$48,327.45	
S147440	Fiber trunk cables (patch panel to rack room)	100%	27-May-22 A	29-Jul-22 A		01-Apr-22	30-Sep-22	0	\$78,092.95	
S147450	Fiber Sort Out Box	100%	01-Apr-22 A	28-Oct-22 A		01-Mar-22	30-Sep-22	0	\$55,780.68	
S148200	Procure TPC EDBC Computers & Peripherals - Contract Award(s)	100%	30-Apr-21 A			07-Oct-20		0	\$0.00	
S148400	Procure TPC EDBC Computers & Peripherals - Delivery Acceptance	100%	01-Jun-21 A	14-Jun-21 A		07-Jan-21	13-Jan-21	0	\$244,768.59	
POM02.01.02.07 TPC Support Systems			02-Apr-20 A	30-Sep-22 A		30-Sep-19	30-Sep-22	0	\$990,756.83	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
POM02.01.02.07.01 TPC Laser System				06-Oct-20 A	30-Sep-22 A		30-Sep-19	30-Sep-22	0	\$787,182.51
S149400	Procure TPC Lasers - Contract Award(s)	100%	20-Oct-20 A			07-Jan-20		0	\$0.00	
S149600	Procure TPC Lasers - Delivery Acceptance	100%	06-Oct-20 A	30-Dec-21 A		26-Jun-20	02-Jul-20	0	\$165,955.10	
S149620	Line Laser custom Attenuator	100%	27-May-22 A	30-Sep-22 A		01-Mar-22	30-Sep-22	0	\$39,046.47	
S149650	TPC Diffuse Lasers	100%	04-Jan-21 A	29-Jul-22 A		01-Dec-20	30-Jun-21	0	\$116,068.43	
S149660	TPC Diffuse Lasers Fiber Coupling	100%	04-Jan-21 A	29-Jul-22 A		01-Apr-22	30-Sep-22	0	\$47,413.57	
S150100	Procure TPC Optics with Mirrors - Contract Award(s)	100%	13-Oct-20 A			07-Jan-20		0	\$0.00	
S150300	Procure TPC Optics with Mirrors - Delivery Acceptance	100%	13-Oct-20 A	29-Jul-22 A		02-Apr-20	08-Apr-20	0	\$66,910.04	
S150330	Light pipes	100%	27-May-22 A	30-Sep-22 A		01-Mar-22	30-Sep-22	0	\$79,208.56	
S150350	Fiber Splitters	100%	01-Jul-22 A	29-Jul-22 A		01-Mar-22	30-Sep-22	0	\$0.00	
S150370	Custom Motor drive, electronics and control sensors	100%	27-May-22 A	30-Sep-22 A		01-Mar-22	30-Sep-22	0	\$211,966.57	
S150380	Custom Motor drive, electronics and control sensors price adjustment	100%	27-May-22 A	30-Sep-22 A		01-Apr-22	30-Sep-22	0	\$41,277.70	
S150500	Procure TPC mirror bundles with supports M&S	100%	13-Jan-21 A	27-May-22 A		30-Sep-19	27-Dec-19	0	\$17,060.22	
S150800	Install &Test TPC Laser safety interlocks M&S	100%	13-Sep-21 A	28-Sep-21 A		09-Jul-20	20-Jul-20	0	\$2,275.85	
POM02.01.02.07.02 TPC Gas System				02-Apr-20 A	27-May-22 A		30-Dec-19	12-Jan-21	0	\$127,399.06
S151600	Procure TPC Gas System mass flow meters M&S	100%	13-Apr-20 A	30-Jun-20 A		30-Dec-19	11-Feb-20	0	\$7,773.17	
S152100	Procure TPC Gas System Equipment - Contract Award(s)	100%	02-Apr-20 A			02-Apr-20		0	\$0.00	
S152300	Procure TPC Gas System Equipment - Contract/PO - Delivery Acceptance	100%	12-Jan-21 A	31-Jan-22 A		14-May-20	20-May-20	0	\$37,591.38	
S152500	Procure TPC Gas System scrubbers M&S	100%	13-Apr-20 A	30-Mar-21 A		30-Dec-19	11-Feb-20	0	\$8,792.75	
S152700	Procure TPC Gas System oxygen and water sensors M&S	100%	13-Apr-20 A	30-Oct-20 A		30-Dec-19	11-Feb-20	0	\$12,703.80	
S153000	Procure TPC Gas System Computer Controller M&S	100%	24-Feb-22 A	28-Feb-22 A		17-Aug-20	05-Oct-20	0	\$20,974.87	
S153500	Procure TPC Gas System Components for Installation - Contract Award(s)	100%	11-Mar-21 A			19-Nov-20		0	\$0.00	
S153700	Procure TPC Gas System Components for Installation - Delivery Acceptance	100%	08-Mar-21 A	27-May-22 A		06-Jan-21	12-Jan-21	0	\$39,563.09	
POM02.01.02.07.03 TPC Cooling System				15-Feb-21 A	21-Sep-21 A		05-Mar-20	08-Dec-20	0	\$76,175.26
S154800	Procure TPC Cooling System Equipment - Contract Award(s)	100%	02-Apr-21 A			05-Mar-20		0	\$0.00	
S155000	Procure TPC Cooling System Equipment - Delivery Acceptance	100%	15-Feb-21 A	31-May-21 A		29-May-20	04-Jun-20	0	\$50,454.49	
S155700	Procure TPC Plumbing - Contract/PO M&S	100%	13-Sep-21 A	21-Sep-21 A		08-Oct-20	01-Dec-20	0	\$13,541.70	
S155900	Set up TPC Cooling System computer controls M&S	100%	15-Jul-21 A	30-Jul-21 A		02-Dec-20	08-Dec-20	0	\$12,179.06	
POM02.01.03 EMCal				01-Feb-17 A	30-Sep-22 A		01-Feb-17	30-Sep-22	24927	\$6,275,613.95
S1001879	Actuals - Nonlabor - sPHENIX EMCal FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$80,811.96	
S156400	Actuals - Nonlabor - sPHENIX EMCal FY17	100%	01-Feb-17 A	29-Sep-17 A		01-Feb-17	29-Sep-17	0	\$45,714.00	
S156500	Actuals - Nonlabor - sPHENIX EMCal FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	0	\$463,282.35	
S156510	Actuals - Nonlabor - sPHENIX EMCal FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$699,611.97	
POM02.01.03.01 EMCAL Block Fabrication				31-Jul-17 A	27-Apr-22 A		31-Jul-17	30-Sep-22	19647	\$3,662,189.69
POM02.01.03.01.02 EMCAL Preproduction Prototype Block Production				23-May-18 A	19-Oct-20 A		23-May-18	21-May-20	2876	\$425,673.33
POM02.01.03.01.02.02 Fabricate blocks for preproduction prototype Sector 0				01-Oct-18 A	03-May-19 A		01-Oct-18	03-May-19	0	\$0.00
S158500	Fabricate & test batch No. 2 of 8 batches of 12 blocks for preproduction prototype Sect	100%	01-Oct-18 A	16-Nov-18 A		01-Oct-18	16-Nov-18	0	\$0.00	
S158600	Fabricate & test batch No. 3 of 8 batches of 12 blocks for preproduction prototype Sect	100%	15-Oct-18 A	16-Nov-18 A		15-Oct-18	16-Nov-18	0	\$0.00	
S158700	Fabricate & test batch No. 4 of 8 batches of 12 blocks for preproduction prototype Sect	100%	08-Nov-18 A	08-Mar-19 A		08-Nov-18	08-Mar-19	0	\$0.00	
S158800	Fabricate & test batch No. 5 of 8 batches of 12 blocks for preproduction prototype Sect	100%	16-Nov-18 A	11-Feb-19 A		16-Nov-18	11-Feb-19	0	\$0.00	
S158900	Fabricate & test batch No. 6 of 8 batches of 12 blocks for preproduction prototype Sect	100%	20-Mar-19 A	10-Apr-19 A		20-Mar-19	10-Apr-19	0	\$0.00	
S159000	Fabricate & test batch No. 7 of 8 batches of 12 blocks for preproduction prototype Sect	100%	27-Mar-19 A	03-May-19 A		27-Mar-19	03-May-19	0	\$0.00	
S159100	Fabricate & test batch No. 8 of 8 batches of 12 blocks for preproduction prototype Sect	100%	03-Apr-19 A	03-May-19 A		03-Apr-19	03-May-19	0	\$0.00	
POM02.01.03.01.02.03 Pack and ship preproduction blocks to BNL Sector 0				02-Oct-18 A	03-May-19 A		02-Oct-18	03-May-19	0	\$0.00
S159200	Ship batch No. 1 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	02-Oct-18 A	09-Oct-18 A		02-Oct-18	09-Oct-18	0	\$0.00	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S159300	Ship batch No. 1 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	02-Oct-18 A	09-Oct-18 A		02-Oct-18	09-Oct-18	0	\$0.00	
S159400	Ship batch No. 2 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	15-Oct-18 A	19-Oct-18 A		15-Oct-18	19-Oct-18	0	\$0.00	
S159500	Ship batch No. 2 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	15-Oct-18 A	19-Oct-18 A		15-Oct-18	19-Oct-18	0	\$0.00	
S159600	Ship batch No. 3 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	22-Oct-18 A	26-Oct-18 A		22-Oct-18	26-Oct-18	0	\$0.00	
S159700	Ship batch No. 3 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	22-Oct-18 A	26-Oct-18 A		22-Oct-18	26-Oct-18	0	\$0.00	
S159800	Ship batch No. 4 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	11-Mar-19 A	29-Mar-19 A		11-Mar-19	29-Mar-19	0	\$0.00	
S159900	Ship batch No. 4 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	11-Mar-19 A	29-Mar-19 A		11-Mar-19	29-Mar-19	0	\$0.00	
S160000	Ship batch No. 5 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	20-Mar-19 A	10-Apr-19 A		20-Mar-19	10-Apr-19	0	\$0.00	
S160100	Ship batch No. 5 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	20-Mar-19 A	10-Apr-19 A		20-Mar-19	10-Apr-19	0	\$0.00	
S160200	Ship batch No. 6 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	27-Mar-19 A	10-Apr-19 A		27-Mar-19	10-Apr-19	0	\$0.00	
S160300	Ship batch No. 6 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	27-Mar-19 A	10-Apr-19 A		27-Mar-19	10-Apr-19	0	\$0.00	
S160400	Ship batch No. 7 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	03-Apr-19 A	03-May-19 A		03-Apr-19	03-May-19	0	\$0.00	
S160500	Ship batch No. 7 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	03-Apr-19 A	03-May-19 A		03-Apr-19	03-May-19	0	\$0.00	
S160600	Ship batch No. 8 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	15-Apr-19 A	03-May-19 A		15-Apr-19	03-May-19	0	\$0.00	
S160700	Ship batch No. 8 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BNL	100%	15-Apr-19 A	03-May-19 A		15-Apr-19	03-May-19	0	\$0.00	
POM02.01.03.01.02.04	Order Material for EMCAL Block Preproduction		23-May-18 A	30-Mar-20 A		23-May-18	30-Sep-19	662	\$289,754.20	
OBLG161410	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Obligation	100%	09-Oct-18 A	09-Oct-18 A		09-Oct-18	09-Oct-18	0	\$0.00	
OBLG162510	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Obligation 3rd batch FY19	100%	23-May-18 A	23-May-18 A		23-May-18	23-May-18	0	\$0.00	
OBLG162610	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Obligation 4th batch	100%	23-May-18 A	23-May-18 A		23-May-18	23-May-18	0	\$0.00	
OBLG163610	Order screens for EMCAL Prepro Sectors 1-12 Blocks - Obligation	100%	28-Aug-18 A	28-Aug-18 A		28-Aug-18	28-Aug-18	0	\$0.00	
OBLG164510	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Obligation	100%	01-Oct-18 A	01-Oct-18 A		01-Oct-18	01-Oct-18	0	\$0.00	
OBLG165410	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Obligation	100%	23-Jul-18 A	23-Jul-18 A		23-Jul-18	23-Jul-18	0	\$0.00	
S161400	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Contract Award	100%	09-Oct-18 A			09-Oct-18		0	\$0.00	
S161600	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Delivery acceptance Phas	100%	22-Oct-18 A	23-Oct-18 A		22-Oct-18	23-Oct-18	0	\$0.00	
S161700	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Delivery acceptance Phas	100%	03-Sep-19 A	30-Sep-19 A		03-Jun-19	26-Jul-19	0	\$242,078.42	
S162300	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 1st batch	100%	23-May-18 A			23-May-18		0	\$0.00	
S162400	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 2nd batch FY19	100%	23-May-18 A			23-May-18		0	\$0.00	
S162500	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 3rd batch FY19	100%	23-May-18 A			23-May-18		0	\$0.00	
S162600	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 4th batch	100%	23-May-18 A			23-May-18		0	\$0.00	
S163000	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Delivery acceptance 3rd batch	100%	01-Oct-18 A	12-Oct-18 A		01-Oct-18	12-Oct-18	0	\$0.00	
S163100	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Delivery acceptance 4th batch	100%	15-Oct-18 A	21-Nov-18 A		15-Oct-18	21-Nov-18	0	\$0.00	
S163600	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Contract Award	100%	28-Aug-18 A			28-Aug-18		0	\$0.00	
S164000	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Delivery acceptance	100%	16-Oct-18 A	09-Apr-19 A		16-Oct-18	09-Apr-19	0	\$0.00	
S164500	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Contract Award	100%	01-Oct-18 A			01-Oct-18		0	\$0.00	
S164700	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Delivery acceptance	100%	30-Oct-18 A	31-May-19 A		30-Oct-18	31-May-19	0	\$0.00	
S164702	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Delivery acceptance Split	100%	01-Jul-19 A	30-Mar-20 A		03-Jun-19	30-Sep-19	0	\$36,671.43	
S164800	Order parts and fabricate molds for EMCAL Prepro Sectors 1-12 Blocks M&S	100%	01-Oct-18 A	29-Oct-18 A		01-Oct-18	29-Oct-18	0	\$0.00	
S165400	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Contract Award(s)	100%	23-Jul-18 A			23-Jul-18		0	\$0.00	
S165700	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Delivery Acceptance	100%	02-Jan-19 A	28-Feb-19 A		02-Jan-19	28-Feb-19	0	\$0.00	
S165800	Prepare fiber assemblies for EMCAL Prepro Sectors 1-12 Blocks	100%	30-Oct-18 A	31-May-19 A		30-Oct-18	31-May-19	0	\$0.00	
S165802	Prepare fiber assemblies for EMCAL Prepro Sectors 1-12 Blocks Split	100%	03-Jun-19 A	28-Jun-19 A		03-Jun-19	16-Aug-19	662	\$11,004.36	
POM02.01.03.01.02.05	Fabricate EMCAL Prepro blocks Sectors 1-12		01-Apr-19 A	09-Oct-20 A		01-Apr-19	14-May-20	1974	\$110,780.18	
S165900	Fabricate EMCAL Prepro blocks sector 1	100%	01-Apr-19 A	31-May-19 A		01-Apr-19	31-May-19	0	\$0.00	
S165902	Fabricate EMCAL Prepro blocks sector 1 Split	100%	01-Jul-19 A	30-Sep-19 A		01-Oct-19	13-Nov-19	126	\$7,103.63	
S166000	Fabricate EMCAL Prepro blocks sector 2	100%	01-Oct-19 A	31-Dec-19 A		01-Oct-19	05-Nov-19	168	\$9,425.14	

POM02 sPHENIX WBS 1.x, 2.x October 2022		sPHENIX MIE Full Schedule				Page 8 of 18 pages			18-Nov-22 11:02	
Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S166100	Fabricate EMCAL Prepro blocks sector 3	100%	19-Dec-19 A	31-Jan-20 A		06-Nov-19	13-Dec-19	168	\$9,425.14	
S166200	Fabricate EMCAL Prepro blocks sector 4	100%	03-Feb-20 A	04-Mar-20 A		16-Dec-19	07-Jan-20	168	\$9,425.14	
S166300	Fabricate EMCAL Prepro blocks sector 5	100%	05-Mar-20 A	29-May-20 A		08-Jan-20	29-Jan-20	168	\$9,425.14	
S166400	Fabricate EMCAL Prepro blocks sector 6	100%	06-May-20 A	17-Jun-20 A		30-Jan-20	20-Feb-20	168	\$9,425.14	
S166500	Fabricate EMCAL Prepro blocks sector 7	100%	01-Jul-20 A	15-Jul-20 A		21-Feb-20	05-Mar-20	168	\$9,425.14	
S166600	Fabricate EMCAL Prepro blocks sector 8	100%	16-Jul-20 A	29-Jul-20 A		06-Mar-20	19-Mar-20	168	\$9,425.14	
S166700	Fabricate EMCAL Prepro blocks sector 9	100%	30-Jul-20 A	14-Aug-20 A		20-Mar-20	02-Apr-20	168	\$9,425.14	
S166800	Fabricate EMCAL Prepro blocks sector 10	100%	17-Aug-20 A	11-Sep-20 A		03-Apr-20	16-Apr-20	168	\$9,425.14	
S166900	Fabricate EMCAL Prepro blocks sector 11	100%	14-Sep-20 A	25-Sep-20 A		17-Apr-20	30-Apr-20	168	\$9,425.14	
S167000	Fabricate EMCAL Prepro blocks sector 12	100%	28-Sep-20 A	09-Oct-20 A		01-May-20	14-May-20	168	\$9,425.14	
POM02.01.03.01.02.06 Pack and ship EMCAL Blocks for Prepro Sectors 1-12 to BNL			01-Jul-19 A	19-Oct-20 A		06-Nov-19	21-May-20	240	\$25,138.95	
S167100	Pack and ship EMCAL blocks for Prepro sector 1 to BNL Purchased Services	100%	01-Jul-19 A	29-Nov-19 A		14-Nov-19	20-Nov-19	20	\$865.95	
S167200	Pack and ship EMCAL blocks for Prepro sector 1 to BNL M&S	100%	01-Jul-19 A	29-Nov-19 A		14-Nov-19	20-Nov-19	0	\$1,228.96	
S167300	Pack and ship EMCAL blocks for Prepro sector 2 to BNL Purchased Services	100%	11-Dec-19 A	28-Jan-20 A		06-Nov-19	13-Nov-19	20	\$865.95	
S167400	Pack and ship EMCAL blocks for Prepro sector 2 to BNL M&S	100%	11-Dec-19 A	28-Jan-20 A		06-Nov-19	13-Nov-19	0	\$1,228.96	
S167500	Pack and ship EMCAL blocks for Prepro sector 3 to BNL Purchased Services	100%	03-Feb-20 A	07-Feb-20 A		16-Dec-19	20-Dec-19	20	\$865.95	
S167600	Pack and ship EMCAL blocks for Prepro sector 3 to BNL M&S	100%	03-Feb-20 A	07-Feb-20 A		16-Dec-19	20-Dec-19	0	\$1,228.96	
S167700	Pack and ship EMCAL blocks for Prepro sector 4 to BNL Purchased Services	100%	01-May-20 A	07-May-20 A		08-Jan-20	14-Jan-20	20	\$865.95	
S167800	Pack and ship EMCAL blocks for Prepro sector 4 to BNL M&S	100%	01-May-20 A	07-May-20 A		08-Jan-20	14-Jan-20	0	\$1,228.96	
S167900	Pack and ship EMCAL blocks for Prepro sector 5 to BNL Purchased Services	100%	01-Jun-20 A	05-Jun-20 A		30-Jan-20	05-Feb-20	20	\$865.95	
S168000	Pack and ship EMCAL blocks for Prepro sector 5 to BNL M&S	100%	01-Jun-20 A	05-Jun-20 A		30-Jan-20	05-Feb-20	0	\$1,228.96	
S168100	Pack and ship EMCAL blocks for Prepro sector 6 to BNL Purchased Services	100%	01-Jul-20 A	08-Jul-20 A		21-Feb-20	27-Feb-20	20	\$865.95	
S168200	Pack and ship EMCAL blocks for Prepro sector 6 to BNL M&S	100%	01-Jul-20 A	08-Jul-20 A		21-Feb-20	27-Feb-20	0	\$1,228.96	
S168300	Pack and ship EMCAL blocks for Prepro sector 7 to BNL Purchased Services	100%	16-Jul-20 A	22-Jul-20 A		06-Mar-20	12-Mar-20	20	\$865.95	
S168400	Pack and ship EMCAL blocks for Prepro sector 7 to BNL M&S	100%	16-Jul-20 A	22-Jul-20 A		06-Mar-20	12-Mar-20	0	\$1,228.96	
S168500	Pack and ship EMCAL blocks for Prepro sector 8 to BNL Purchased Services	100%	03-Aug-20 A	07-Aug-20 A		20-Mar-20	26-Mar-20	20	\$865.95	
S168600	Pack and ship EMCAL blocks for Prepro sector 8 to BNL M&S	100%	03-Aug-20 A	07-Aug-20 A		20-Mar-20	26-Mar-20	0	\$1,228.96	
S168700	Pack and ship EMCAL blocks for Prepro sector 9 to BNL Purchased Services	100%	01-Sep-20 A	08-Sep-20 A		03-Apr-20	09-Apr-20	20	\$865.95	
S168800	Pack and ship EMCAL blocks for Prepro sector 9 to BNL M&S	100%	01-Sep-20 A	08-Sep-20 A		03-Apr-20	09-Apr-20	0	\$1,228.96	
S168900	Pack and ship EMCAL blocks for Prepro sector 10 to BNL Purchased Services	100%	14-Sep-20 A	18-Sep-20 A		17-Apr-20	23-Apr-20	20	\$865.95	
S169000	Pack and ship EMCAL blocks for Prepro sector 10 to BNL M&S	100%	14-Sep-20 A	18-Sep-20 A		17-Apr-20	23-Apr-20	0	\$1,228.96	
S169100	Pack and ship EMCAL blocks for Prepro sector 11 to BNL Purchased Services	100%	01-Oct-20 A	07-Oct-20 A		01-May-20	07-May-20	20	\$865.95	
S169200	Pack and ship EMCAL blocks for Prepro sector 11 to BNL M&S	100%	01-Oct-20 A	07-Oct-20 A		01-May-20	07-May-20	0	\$1,228.96	
S169300	Pack and ship EMCAL blocks for Prepro sector 12 to BNL Purchased Services	100%	13-Oct-20 A	19-Oct-20 A		15-May-20	21-May-20	20	\$865.95	
S169400	Pack and ship EMCAL blocks for Prepro sector 12 to BNL M&S	100%	13-Oct-20 A	19-Oct-20 A		15-May-20	21-May-20	0	\$1,228.96	
POM02.01.03.01.03 EMCAL Final Block Production			01-Oct-18 A	27-Apr-22 A		01-Oct-18	30-Sep-22	16771	\$3,236,516.36	
POM02.01.03.01.03.01 Order Material for EMCAL Final Block Production			01-Oct-18 A	27-Apr-22 A		01-Oct-18	30-Sep-22	9485	\$2,904,769.63	
S169500	Establish EMCAL final blocks contract with UIUC	100%	12-Sep-19 A	29-Nov-19 A		24-Jul-19	20-Aug-19	10	\$1,083.41	
S169600	Procure EMCAL W Powder for Final Blocks - Provide Requirements to Procurement	100%	01-Oct-18 A	05-Oct-18 A		01-Oct-18	05-Oct-18	0	\$0.00	
S170000	Procure EMCAL W Powder for Final Blocks - Contract Award(s)	100%	31-May-19 A			31-May-19		0	\$0.00	
S170100	Procure EMCAL W Powder for Final Blocks - Contract/PO - Leadtime	100%	01-Jul-19 A	29-Nov-19 A		09-Dec-19	19-Mar-20	0	\$0.00	
S170200	Procure EMCAL W Powder for Final Blocks - Sectors 13-38 - Delivery Acceptance	100%	01-Nov-19 A	29-Nov-19 A		27-Mar-20	02-Apr-20	0	\$540,981.30	
S170210	Procure EMCAL W Powder for Final Blocks - Sectors 39-64 - Delivery Acceptance	100%	15-Jun-20 A	26-Jun-20 A		15-Jun-20	19-Jun-20	0	\$540,981.30	
S170800	Procure EMCAL Fibers for Final Blocks- Contract Award(s)	100%	21-Dec-18 A			21-Dec-18		0	\$0.00	
S170900	Procure EMCAL Fibers for Final Blocks- Contract/PO - Leadtime	100%	02-Jan-19 A	15-Apr-19 A		02-Jan-19	15-Apr-19	0	\$0.00	



POM02 sPHENIX WBS 1.x, 2.x October 2022		sPHENIX MIE Full Schedule				Page 9 of 18 pages			18-Nov-22 11:02	
Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S171000	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 1	100%	05-Apr-19 A	17-Apr-19 A		05-Apr-19	17-Apr-19	0	\$0.00	
S171002	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 2	100%	01-May-19 A	03-May-19 A		01-May-19	03-May-19	0	\$0.00	
S171003	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 3	100%	03-Jun-19 A	18-Jun-19 A		03-Jun-19	01-Jul-19	0	\$40,405.98	
S171004	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 4	100%	19-Jun-19 A	28-Jun-19 A		02-Jul-19	30-Jul-19	0	\$40,405.98	
S171005	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 5	100%	01-Aug-19 A	20-Aug-19 A		31-Jul-19	30-Aug-19	0	\$40,405.98	
S171006	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 6	100%	03-Sep-19 A	30-Sep-19 A		03-Sep-19	30-Sep-19	0	\$40,405.98	
S171007	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 7	100%	01-Oct-19 A	30-Oct-19 A		01-Oct-19	30-Oct-19	0	\$40,858.23	
S171008	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 8	100%	08-Nov-19 A	25-Nov-19 A		31-Oct-19	04-Dec-19	0	\$40,858.23	
S171009	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 9	100%	03-Dec-19 A	18-Dec-19 A		05-Dec-19	31-Dec-19	0	\$40,858.23	
S171010	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 10	100%	02-Jan-20 A	31-Jan-20 A		02-Jan-20	31-Jan-20	0	\$40,858.23	
S171011	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 11	100%	03-Feb-20 A	28-Feb-20 A		03-Feb-20	03-Mar-20	0	\$40,858.23	
S171012	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 12	100%	02-Mar-20 A	26-Mar-20 A		04-Mar-20	30-Mar-20	0	\$40,858.23	
S171013	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 13	100%	01-May-20 A	12-May-20 A		31-Mar-20	30-Apr-20	0	\$40,858.23	
S171014	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 14	100%	13-May-20 A	27-May-20 A		01-May-20	02-Jun-20	0	\$40,858.23	
S171015	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 15	100%	01-Jun-20 A	26-Jun-20 A		03-Jun-20	30-Jun-20	0	\$40,858.23	
S171016	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 16	100%	01-Jul-20 A	30-Jul-20 A		01-Jul-20	30-Jul-20	0	\$40,858.23	
S171017	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 17	100%	03-Aug-20 A	31-Aug-20 A		31-Jul-20	31-Aug-20	0	\$40,858.23	
S171018	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 18	100%	01-Sep-20 A	30-Sep-20 A		01-Sep-20	30-Sep-20	0	\$40,858.23	
S171019	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 19	100%	01-Oct-20 A	30-Oct-20 A		01-Oct-20	30-Oct-20	0	\$40,858.23	
S171020	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 20	100%	02-Nov-20 A	27-Nov-20 A		02-Nov-20	02-Dec-20	0	\$40,858.23	
S171021	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 21	100%	04-Jan-21 A	18-Jan-21 A		03-Dec-20	31-Dec-20	0	\$40,858.23	
S171022	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 22	100%	19-Jan-21 A	28-Jan-21 A		04-Jan-21	02-Feb-21	0	\$40,858.23	
S171023	Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 23	100%	01-Feb-21 A	25-Feb-21 A		03-Feb-21	03-Mar-21	0	\$38,234.31	
S171200	Procure EMCAL Epoxy for Final Blocks - Provide Requirements to Procurement	100%	19-Mar-20 A	24-Mar-20 A		11-May-20	11-May-20	16	\$1,316.39	
S171600	Procure EMCAL Epoxy for Final Blocks- Contract Award(s)	100%	31-Mar-20 A			15-May-20		0	\$0.00	
S171800	Procure EMCAL Epoxy for Final Blocks - Delivery Acceptance	100%	03-Aug-20 A	14-Dec-21 A		15-Jun-20	14-Jun-21	0	\$104,592.32	
S172300	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Contract Award(s)	100%	31-Mar-20 A			15-May-20		0	\$0.00	
S172500	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Delivery Acceptance	100%	03-Aug-20 A	04-Oct-21 A		18-May-20	17-May-21	0	\$30,217.91	
S172600	Set up factory for final blocks Purchased Services	100%	05-Jun-19 A	25-Nov-19 A		31-Jul-19	20-Dec-19	79	\$7,016.60	
S172700	Set up factory for final blocks M&S	100%	05-Jun-19 A	25-Nov-19 A		31-Jul-19	20-Dec-19	0	\$2,840.48	
S172800	Prepare fiber assemblies for final blocks	100%	21-Jun-19 A	30-Jul-21 A		21-Aug-19	02-Aug-21	9360	\$163,756.61	
S172850	Supervise EMCAL Final Block Production	100%	01-May-20 A	29-Oct-21 A		01-Apr-20	20-Sep-21	0	\$60,868.43	
S172870	EMCAL Block Production QA	100%	01-Dec-20 A	30-Sep-21 A		01-Dec-20	20-Sep-21	0	\$533,914.78	
S172880	EMCAL Block Refurbishment and Replacement	100%	01-Apr-22 A	27-Apr-22 A		01-Apr-22	30-Sep-22	0	\$62,030.34	
S172900	Production Readiness Review, Safety Review - EMCAL Blocks	100%	03-Aug-20 A	07-Aug-20 A		06-Sep-19	12-Sep-19	20	\$1,579.88	
POM02.01.03.01.03.02	Fabricate final blocks		13-Oct-20 A	17-Dec-21 A		15-Jun-20	10-Sep-21	7020	\$266,555.39	
S173000	Fabricate final blocks sector 13	100%	13-Oct-20 A	20-Oct-20 A		15-Jun-20	22-Jun-20	135	\$5,012.32	
S173100	Fabricate final blocks sector 14	100%	21-Oct-20 A	28-Oct-20 A		23-Jun-20	30-Jun-20	135	\$5,012.32	
S173200	Fabricate final blocks sector 15	100%	22-Oct-20 A	30-Oct-20 A		01-Jul-20	09-Jul-20	135	\$5,012.32	
S173300	Fabricate final blocks sector 16	100%	21-Oct-20 A	16-Nov-20 A		10-Jul-20	17-Jul-20	135	\$5,012.32	
S173400	Fabricate final blocks sector 17	100%	17-Nov-20 A	24-Nov-20 A		20-Jul-20	27-Jul-20	135	\$5,012.32	
S173500	Fabricate final blocks sector 18	100%	25-Nov-20 A	08-Dec-20 A		28-Jul-20	04-Aug-20	135	\$5,012.32	
S173600	Fabricate final blocks sector 19	100%	09-Dec-20 A	16-Dec-20 A		05-Aug-20	12-Aug-20	135	\$5,012.32	
S173700	Fabricate final blocks sector 20	100%	17-Dec-20 A	11-Jan-21 A		13-Aug-20	20-Aug-20	135	\$5,012.32	
S173800	Fabricate final blocks sector 21	100%	12-Jan-21 A	20-Jan-21 A		21-Aug-20	28-Aug-20	135	\$5,012.32	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S173900	Fabricate final blocks sector 22	100%	21-Jan-21 A	08-Feb-21 A		31-Aug-20	08-Sep-20	135	\$5,012.32	
S174000	Fabricate final blocks sector 23	100%	09-Feb-21 A	17-Feb-21 A		09-Sep-20	16-Sep-20	135	\$5,012.32	
S174100	Fabricate final blocks sector 24	100%	18-Feb-21 A	22-Feb-21 A		17-Sep-20	24-Sep-20	135	\$5,012.32	
S174200	Fabricate final blocks sector 25	100%	23-Feb-21 A	26-Feb-21 A		25-Sep-20	02-Oct-20	135	\$5,062.45	
S174300	Fabricate final blocks sector 26	100%	26-Feb-21 A	26-Mar-21 A		05-Oct-20	13-Oct-20	135	\$5,162.69	
S174400	Fabricate final blocks sector 27	100%	16-Mar-21 A	29-Mar-21 A		14-Oct-20	21-Oct-20	135	\$5,162.69	
S174500	Fabricate final blocks sector 28	100%	18-Mar-21 A	31-Mar-21 A		22-Oct-20	29-Oct-20	135	\$5,162.69	
S174600	Fabricate final blocks sector 29	100%	26-Mar-21 A	02-Apr-21 A		30-Oct-20	06-Nov-20	135	\$5,162.69	
S174700	Fabricate final blocks sector 30	100%	05-Apr-21 A	12-Apr-21 A		09-Nov-20	17-Nov-20	135	\$5,162.69	
S174800	Fabricate final blocks sector 31	100%	13-Apr-21 A	20-Apr-21 A		18-Nov-20	25-Nov-20	135	\$5,162.69	
S174900	Fabricate final blocks sector 32	100%	21-Apr-21 A	28-Apr-21 A		30-Nov-20	07-Dec-20	135	\$5,162.69	
S175000	Fabricate final blocks sector 33	100%	29-Apr-21 A	30-Apr-21 A		08-Dec-20	15-Dec-20	135	\$5,162.69	
S175100	Fabricate final blocks sector 34	100%	29-Apr-21 A	30-Apr-21 A		16-Dec-20	23-Dec-20	135	\$5,162.69	
S175200	Fabricate final blocks sector 35	100%	30-Apr-21 A	07-May-21 A		24-Dec-20	04-Jan-21	135	\$5,162.69	
S175300	Fabricate final blocks sector 36	100%	10-May-21 A	17-May-21 A		05-Jan-21	12-Jan-21	135	\$5,162.69	
S175400	Fabricate final blocks sector 37	100%	18-May-21 A	25-May-21 A		13-Jan-21	21-Jan-21	135	\$5,162.69	
S175500	Fabricate final blocks sector 38	100%	26-May-21 A	03-Jun-21 A		22-Jan-21	29-Jan-21	135	\$5,162.69	
S175600	Fabricate final blocks sector 39	100%	04-Jun-21 A	11-Jun-21 A		01-Feb-21	08-Feb-21	135	\$5,162.69	
S175700	Fabricate final blocks sector 40	100%	14-Jun-21 A	21-Jun-21 A		09-Feb-21	17-Feb-21	135	\$5,162.69	
S175800	Fabricate final blocks sector 41	100%	22-Jun-21 A	29-Jun-21 A		18-Feb-21	25-Feb-21	135	\$5,162.69	
S175900	Fabricate final blocks sector 42	100%	30-Jun-21 A	09-Jul-21 A		26-Feb-21	05-Mar-21	135	\$5,162.69	
S176000	Fabricate final blocks sector 43	100%	12-Jul-21 A	16-Jul-21 A		08-Mar-21	15-Mar-21	135	\$5,162.69	
S176100	Fabricate final blocks sector 44	100%	19-Jul-21 A	23-Jul-21 A		16-Mar-21	23-Mar-21	135	\$5,162.69	
S176200	Fabricate final blocks sector 45	100%	22-Jul-21 A	27-Jul-21 A		24-Mar-21	31-Mar-21	135	\$5,162.69	
S176300	Fabricate final blocks sector 46	100%	23-Jul-21 A	29-Jul-21 A		01-Apr-21	08-Apr-21	135	\$5,162.69	
S176400	Fabricate final blocks sector 47	100%	27-Jul-21 A	13-Aug-21 A		09-Apr-21	16-Apr-21	135	\$5,162.69	
S176500	Fabricate final blocks sector 48	100%	16-Aug-21 A	23-Aug-21 A		19-Apr-21	26-Apr-21	135	\$5,162.69	
S176600	Fabricate final blocks sector 49	100%	24-Aug-21 A	30-Aug-21 A		27-Apr-21	04-May-21	135	\$5,162.69	
S176700	Fabricate final blocks sector 50	100%	27-Aug-21 A	13-Sep-21 A		05-May-21	12-May-21	135	\$5,162.69	
S176800	Fabricate final blocks sector 51	100%	09-Sep-21 A	15-Sep-21 A		13-May-21	20-May-21	135	\$5,162.69	
S176900	Fabricate final blocks sector 52	100%	13-Sep-21 A	22-Sep-21 A		21-May-21	28-May-21	135	\$5,162.69	
S177000	Fabricate final blocks sector 53	100%	20-Sep-21 A	08-Oct-21 A		01-Jun-21	08-Jun-21	135	\$5,162.69	
S177100	Fabricate final blocks sector 54	100%	12-Oct-21 A	19-Oct-21 A		09-Jun-21	16-Jun-21	135	\$5,162.69	
S177200	Fabricate final blocks sector 55	100%	20-Oct-21 A	27-Oct-21 A		17-Jun-21	24-Jun-21	135	\$5,162.69	
S177300	Fabricate final blocks sector 56	100%	25-Oct-21 A	28-Oct-21 A		25-Jun-21	02-Jul-21	135	\$5,162.69	
S177400	Fabricate final blocks sector 57	100%	26-Oct-21 A	29-Oct-21 A		06-Jul-21	13-Jul-21	135	\$5,162.69	
S177500	Fabricate final blocks sector 58	100%	28-Oct-21 A	02-Nov-21 A		14-Jul-21	21-Jul-21	135	\$5,162.69	
S177600	Fabricate final blocks sector 59	100%	03-Nov-21 A	09-Nov-21 A		22-Jul-21	29-Jul-21	135	\$5,162.69	
S177700	Fabricate final blocks sector 60	100%	10-Nov-21 A	17-Nov-21 A		30-Jul-21	06-Aug-21	135	\$5,162.69	
S177800	Fabricate final blocks sector 61	100%	18-Nov-21 A	24-Nov-21 A		09-Aug-21	16-Aug-21	135	\$5,162.69	
S177900	Fabricate final blocks sector 62	100%	29-Nov-21 A	03-Dec-21 A		17-Aug-21	24-Aug-21	135	\$5,162.69	
S178000	Fabricate final blocks sector 63	100%	06-Dec-21 A	10-Dec-21 A		25-Aug-21	01-Sep-21	135	\$5,162.69	
S178100	Fabricate final blocks sector 64	100%	13-Dec-21 A	17-Dec-21 A		02-Sep-21	10-Sep-21	135	\$5,162.69	
POM02.01.03.01.03.03	Pack and ship final blocks to BNL		22-Oct-20 A	20-Dec-21 A		20-Jul-20	27-Sep-21	266	\$65,191.33	
S178300	Pack and ship final blocks for sectors 13-16 to BNL - Purchased Services	100%	22-Oct-20 A	23-Nov-20 A		20-Jul-20	24-Jul-20	20	\$1,186.93	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S178310	Pack and ship final blocks for sectors 13-16 to BNL - M&S	100%	22-Oct-20 A	23-Nov-20 A		20-Jul-20	24-Jul-20	0	\$3,686.88	
S178400	Pack and ship final blocks for sectors 17-24 to BNL - Purchased Services	100%	16-Nov-20 A	30-Mar-21 A		25-Sep-20	01-Oct-20	41	\$2,501.62	
S178410	Pack and ship final blocks for sectors 17-24 to BNL - M&S	100%	16-Nov-20 A	30-Mar-21 A		25-Sep-20	01-Oct-20	0	\$7,403.25	
S178500	Pack and ship final blocks for sectors 25-32 to BNL - Purchased Services	100%	22-Mar-21 A	07-May-21 A		08-Dec-20	14-Dec-20	41	\$2,561.30	
S178510	Pack and ship final blocks for sectors 25-32 to BNL - M&S	100%	22-Mar-21 A	07-May-21 A		08-Dec-20	14-Dec-20	0	\$7,521.23	
S178600	Pack and ship final blocks for sectors 33-40 to BNL - Purchased Services	100%	17-May-21 A	28-Jun-21 A		18-Feb-21	24-Feb-21	41	\$2,561.30	
S178610	Pack and ship final blocks for sectors 33-40 to BNL - M&S	100%	17-May-21 A	28-Jun-21 A		18-Feb-21	24-Feb-21	0	\$7,521.23	
S178700	Pack and ship final blocks for sectors 41-48 to BNL - Purchased Services	100%	15-Jun-21 A	30-Aug-21 A		27-Apr-21	03-May-21	41	\$2,561.30	
S178710	Pack and ship final blocks for sectors 41-48 to BNL - M&S	100%	15-Jun-21 A	30-Aug-21 A		27-Apr-21	03-May-21	0	\$7,521.23	
S178800	Pack and ship final blocks for sectors 49-56 to BNL - Purchased Services	100%	30-Aug-21 A	28-Oct-21 A		06-Jul-21	12-Jul-21	41	\$2,561.30	
S178910	Pack and ship final blocks for sectors 49-56 to BNL - M&S	100%	30-Aug-21 A	28-Oct-21 A		06-Jul-21	12-Jul-21	0	\$7,521.23	
S178900	Pack and ship final blocks for sectors 57-64 to BNL - Purchased Services	100%	26-Oct-21 A	20-Dec-21 A		21-Sep-21	27-Sep-21	41	\$2,561.30	
S176010	Pack and ship final blocks for sectors 57-64 to BNL - M&S	100%	26-Oct-21 A	20-Dec-21 A		13-Sep-21	17-Sep-21	0	\$7,521.23	
POM02.01.03.01.04 EMCAL Block Fabrication Procurement			31-Jul-17 A	25-Nov-19 A		31-Jul-17	01-Oct-19	0	\$0.00	
OBLG179310	Procure Contracted Labor Univ. Illinois Urbana-Champaign (UIUC) - Obligation	100%	31-Jul-17 A	31-Jul-17 A		31-Jul-17	31-Jul-17	0	\$0.00	
S179300	Procure Contracted Labor Univ. Illinois Urbana-Champaign (UIUC) - ContractAward	100%	31-Jul-17 A			31-Jul-17		0	\$0.00	
S179600	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) - Contrac	100%	25-Nov-19 A			24-Jul-19		0	\$0.00	
S179601	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) - Contrac	100%	25-Nov-19 A			01-Oct-19		0	\$0.00	
POM02.01.03.02 EMCAL Module Fabrication and Sector Assembly			01-Oct-18 A	30-Sep-22 A		01-Oct-18	30-Sep-22	5280	\$1,324,003.97	
POM02.01.03.02.01 Set up Module Fabrication, Sector Assembly and Test area			31-Oct-18 A	30-Aug-19 A		31-Oct-18	31-Jul-19	0	\$11,198.14	
S180300	Set up EMCAL Prepro module production and sector assembly areas M&S	100%	31-Oct-18 A	31-Dec-18 A		31-Oct-18	31-Dec-18	0	\$0.00	
S180400	Set up EMCAL Final module production and sector assembly areas M&S	100%	02-Jan-19 A	31-May-19 A		02-Jan-19	31-May-19	0	\$0.00	
S180402	Set up EMCAL Final module production and sector assembly areas M&S Split	100%	03-Jun-19 A	30-Aug-19 A		03-Jun-19	31-Jul-19	0	\$11,198.14	
POM02.01.03.02.02 EMCAL Module Fabrication			01-Oct-18 A	31-Mar-22 A		01-Oct-18	08-Oct-21	0	\$406,824.27	
POM02.01.03.02.02.02 EMCAL Preprod Sector 0, 1-12 Module Fabrication			01-Oct-18 A	14-Dec-20 A		01-Oct-18	04-Jun-20	0	\$103,289.95	
S182900	Procure mechanical parts for modules for preproduction prototype sector 0 M&S FY19	100%	01-Oct-18 A	31-Oct-18 A		01-Oct-18	31-Oct-18	0	\$0.00	
S183200	Receive, unpack, log & inspect preproduction prototype blocks sector 0 M&S	100%	25-Oct-18 A	15-May-19 A		25-Oct-18	15-May-19	0	\$0.00	
S183400	Install reflectors on preproduction prototype blocks sector 0 M&S	100%	26-Oct-18 A	15-May-19 A		26-Oct-18	15-May-19	0	\$0.00	
S183600	Install light guides on preproduction prototype blocks sector 0 M&S	100%	26-Oct-18 A	15-May-19 A		26-Oct-18	15-May-19	0	\$0.00	
S184600	Procure light guides for modules in Sectors (Prepro) 1-12 - Contract Award	100%	01-Mar-19 A			01-Mar-19		0	\$0.00	
S184700	Procure light guides for modules in Sectors (Prepro) 1-12 - Contract/PO Leadtime	100%	01-Mar-19 A	28-Jun-19 A		01-Mar-19	26-Aug-19	0	\$0.00	
S184800	Procure light guides for modules in Sectors (Prepro) 1-12 - Delivery Acceptance	100%	03-Sep-19 A	14-Dec-20 A		27-Aug-19	03-Sep-19	0	\$87,930.22	
S185300	Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Contract Award(s)	100%	01-Aug-19 A			11-Oct-19		0	\$0.00	
S185500	Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Delivery Acceptance	100%	16-Oct-19 A	31-Oct-19 A		12-Dec-19	12-Dec-19	0	\$14,961.45	
S185800	Install reflectors on blocks for modules for Prepro Sectors 1-12 M&S	100%	09-Oct-19 A	30-Oct-20 A		13-Dec-19	04-Jun-20	0	\$398.27	
POM02.01.03.02.02.03 EMCAL Final Module Fabrication			20-Apr-20 A	31-Mar-22 A		20-Apr-20	08-Oct-21	0	\$303,534.32	
S186900	Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Contract Award(s)	100%	30-Jun-20 A			22-Jul-20		0	\$0.00	
S187100	Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Delivery Acceptar	100%	15-Oct-20 A	30-Nov-20 A		15-Dec-20	21-Dec-20	0	\$61,144.85	
S187200	Procure light guides for modules in Sectors 13-64 - Contract Award	100%	20-Apr-20 A			20-Apr-20		0	\$0.00	
S187300	Procure light guides for modules in Sectors 13-64 - Contract/PO Leadtime	100%	01-Jun-20 A	30-Dec-20 A		20-Apr-20	09-Sep-20	0	\$0.00	
S187400	Procure light guides for modules in Sectors 13-64 - Delivery Acceptance	100%	22-Dec-20 A	15-Dec-21 A		10-Sep-20	30-Dec-20	0	\$240,129.12	
S187700	Install light guides on final blocks M&S	100%	21-Jan-21 A	31-Mar-22 A		02-Sep-20	30-Sep-21	0	\$1,912.35	
S188100	Install SiPMs daughterboards on final blocks M&S	100%	22-Jan-21 A	31-Mar-22 A		11-Sep-20	08-Oct-21	0	\$348.01	
POM02.01.03.02.03 EMCAL Sector Assembly			01-Nov-18 A	30-Sep-22 A		01-Nov-18	30-Sep-22	5280	\$905,981.57	
POM02.01.03.02.03.02 EMCAL Preproduction Sector Assembly and Testing			01-Nov-18 A	14-Dec-20 A		01-Nov-18	21-Feb-20	0	\$107,375.55	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S190300	Procure mechanical parts for preproduction prototype Sector 0 M&S FY19	100%	01-Nov-18 A	31-May-19 A		01-Nov-18	31-May-19	0	\$0.00	
S190302	Procure mechanical parts for preproduction prototype Sector 0 M&S FY19 Split	100%	03-Jun-19 A	28-Jun-19 A		03-Jun-19	01-Jul-19	0	\$0.00	
S190900	Procure parts for cooling system for preproduction prototype Sector 0 M&S FY19	100%	01-Nov-18 A	31-May-19 A		01-Nov-18	31-May-19	0	\$0.00	
S190902	Procure parts for cooling system for preproduction prototype Sector 0 M&S FY19 (seco	100%	01-May-19 A	23-May-19 A		01-May-19	23-May-19	0	\$0.00	
S191110	Build mechanical stand/support for preproduction prototype Sector 0 - M&S	100%	01-Jul-19 A	29-Jul-19 A		02-Jul-19	30-Jul-19	0	\$551.63	
S192600	Procure mechanical parts for Prepro Sectors 1-12, Phase 1 - Contract Award(s)	100%	30-Sep-19 A			31-Oct-19		0	\$0.00	
S192620	Procure mechanical parts for Prepro Sectors 1-12, Phase 2 - Contract Award(s)	100%	30-Sep-19 A			31-Oct-19		0	\$0.00	
S192800	Procure mechanical parts for Prepro Sectors 1-12, Phase 1 - Delivery Acceptance	100%	23-Oct-19 A	29-May-20 A		02-Jan-20	06-Jan-20	0	\$41,873.39	
S192810	Procure mechanical parts for Prepro Sectors 1-12, Phase 2 - Delivery Acceptance	100%	10-Oct-19 A	29-May-20 A		02-Jan-20	06-Jan-20	0	\$41,873.39	
S193300	Procure parts for cooling system for Prepro Sectors 1-12 - Contract Award(s)	100%	30-Sep-19 A			31-Oct-19		0	\$0.00	
S193500	Procure parts for cooling system for Prepro Sectors 1-12 - Delivery Acceptance	100%	16-Oct-19 A	14-Dec-20 A		02-Jan-20	08-Jan-20	0	\$22,508.17	
S193710	Build mechanical stand/support for Prepro Sectors 1-12 - M&S	100%	13-Nov-19 A	30-Sep-20 A		09-Jan-20	21-Feb-20	0	\$568.96	
POM02.01.03.02.03.03 EMCAL Final Production Sector Assembly			30-Jun-20 A	30-Sep-22 A		15-Jul-20	30-Sep-22	5280	\$798,606.01	
S195200	Procure EMCAL Mechanical Parts for Final Sectors - Contract Award(s)	100%	30-Jun-20 A			15-Jul-20		0	\$0.00	
S195400	Procure EMCAL Mechanical Parts for Final Sectors - Delivery Acceptance	100%	14-Sep-20 A	14-Jun-21 A		04-Jan-21	08-Jan-21	0	\$291,746.13	
S195900	Procure EMCAL Cooling System for Final Sectors - Contract Award(s)	100%	31-Jul-20 A			15-Jul-20		0	\$0.00	
S196100	Procure EMCAL Cooling System for Final Sectors - Delivery Acceptance	100%	18-Jan-21 A	15-Nov-21 A		08-Feb-21	12-Feb-21	0	\$82,284.39	
S196910	Technical support labor for EMCAL assembly	100%	04-Jan-21 A	25-Mar-22 A		04-Jan-21	12-Jan-22	3520	\$281,000.11	
S196920	Further technician support for EMCAL assembly	100%	01-Mar-22 A	30-Sep-22 A		01-Mar-22	30-Sep-22	1760	\$143,575.39	
POM02.01.04 HCal			01-Feb-17 A	09-Nov-21 A		01-Feb-17	19-Nov-21	5927	\$4,099,592.21	
S1001919	Actuals - Nonlabor - sPHENIX HCal FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$18,547.64	
S197600	Actuals - Nonlabor - sPHENIX HCal FY17	100%	01-Feb-17 A	29-Sep-17 A		01-Feb-17	29-Sep-17	0	\$3,021.00	
S197700	Actuals - Nonlabor - sPHENIX HCal FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	0	\$142,473.39	
S197710	Actuals - Nonlabor - sPHENIX HCal FY19M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$458,015.62	
POM02.01.04.01 Inner HCal Support Structure & Support Rings			30-Dec-20 A	09-Nov-21 A		13-Feb-20	19-Nov-21	0	\$1,201,718.80	
S199100	Manufacture Inner HCal Support Structure - Contract Award(s)	100%	31-Dec-20 A			01-Oct-20		0	\$0.00	
S199300	Manufacture Inner HCal Support Structure - Delivery Acceptance 1	100%	28-Jun-21 A	30-Jun-21 A		21-Jun-21	25-Jun-21	0	\$264,958.21	
S199310	Manufacture Inner HCal Support Structure - Delivery Acceptance 2	100%	10-Aug-21 A	30-Aug-21 A		16-Aug-21	20-Aug-21	0	\$264,958.21	
S199320	Manufacture Inner HCal Support Structure - Delivery Acceptance 3	100%	24-Sep-21 A	30-Sep-21 A		24-Sep-21	30-Sep-21	0	\$264,958.21	
S199330	Manufacture Inner HCal Support Structure - Delivery Acceptance 4	100%	01-Nov-21 A	09-Nov-21 A		15-Nov-21	19-Nov-21	0	\$264,958.21	
S199800	Manufacture Inner HCal Support Rings - Contract Award(s)	100%	30-Dec-20 A			13-Feb-20		0	\$0.00	
S200000	Manufacture Inner HCal Support Rings - Delivery Acceptance	100%	17-May-21 A	20-May-21 A		06-Jul-21	12-Jul-21	0	\$141,885.96	
POM02.01.04.02 Outer HCal Sector Mechanical Structure			16-Oct-18 A	26-Mar-21 A		16-Oct-18	29-Apr-20	0	\$348,842.53	
S204300	Procure Preproduction Outer HCal Splice Plates - Delivery Acceptance	100%	16-Oct-18 A	20-May-19 A		16-Oct-18	20-May-19	0	\$0.00	
S204900	Procure Outer HCal Splice Plates - Contract Award(s)	100%	09-Jun-20 A			01-Oct-19		0	\$0.00	
S205100	Procure Outer HCal Splice Plates - Delivery Acceptance	100%	22-Feb-21 A	26-Mar-21 A		13-Feb-20	20-Feb-20	0	\$303,325.50	
S206000	Procure Outer HCal Lifting Fixtures & Supports - Contract Award(s)	100%	27-Nov-19 A			13-Dec-19		0	\$0.00	
S206200	Procure Outer HCal Lifting Fixtures & Supports - Delivery Acceptance	100%	14-Nov-19 A	23-Jan-20 A		23-Apr-20	29-Apr-20	0	\$45,517.03	
POM02.01.04.03 Outer HCal Procure Scintillating Tiles			01-Mar-19 A	22-Dec-20 A		01-Mar-19	08-Dec-20	650	\$1,731,451.52	
S207600	Procure Outer HCal LED/Calibration Fibers M&S	100%	01-Mar-19 A	23-May-19 A		01-Mar-19	23-May-19	0	\$0.00	
S208100	Procure Outer HCal Scintillating Tiles (Prod) - Contract Award(s)	100%	15-Apr-19 A			15-Apr-19		0	\$0.00	
S208200	Procure Outer HCal Scintillating Tiles (Prod) - Contract/PO - Leadtime	100%	03-Jun-19 A	26-Sep-19 A		03-Jun-19	17-Sep-19	0	\$0.00	
S208220	Procure Outer HCal Scintillating Tiles (Prod) - Delivery Acceptance 0	100%	18-Sep-19 A	24-Sep-19 A		18-Sep-19	24-Sep-19	0	\$204,371.02	
S208300	Procure Outer HCal Scintillating Tiles (Prod) - Delivery Acceptance 1	100%	25-Sep-19 A	04-Nov-19 A		10-Oct-19	17-Oct-19	0	\$159,650.99	
S208302	Procure Outer HCal Scintillating Tiles (Prod) - Delivery Acceptance 2	100%	12-Nov-19 A	25-Nov-19 A		15-Nov-19	21-Nov-19	0	\$126,290.80	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S208303	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 3	100%	20-Jan-20 A	30-Jan-20 A		18-Dec-19	18-Dec-19	0	\$126,290.80	
S208304	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 4	100%	20-Jan-20 A	30-Jan-20 A		18-Mar-20	24-Mar-20	0	\$126,290.80	
S208306	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 5&6	100%	15-Jun-20 A	22-Jun-20 A		18-May-20	22-May-20	0	\$252,581.59	
S208308	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 7&8	100%	23-Jun-20 A	30-Jun-20 A		20-Jul-20	24-Jul-20	0	\$252,581.59	
S208310	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 9&10	100%	23-Jun-20 A	31-Aug-20 A		14-Sep-20	18-Sep-20	0	\$235,905.40	
S208312	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 11&12	100%	17-Aug-20 A	30-Nov-20 A		16-Nov-20	20-Nov-20	0	\$235,905.40	
S208400	Outer HCAL Scintillating Tile Acceptance Testing	100%	15-Jun-20 A	22-Dec-20 A		01-Jun-20	08-Dec-20	650	\$11,583.12	
POM02.01.04.04 Outer HCAL Sector Assembly and Testing			17-Aug-18 A	31-Mar-21 A		17-Aug-18	17-Sep-21	5277	\$195,521.72	
POM02.01.04.04.01 Outer HCAL Sector Assembly and Testing - Preproduction			17-Aug-18 A	30-Dec-20 A		17-Aug-18	18-Jun-20	1117	\$24,148.07	
OBLG201710	Procure Outer HCAL Scint. Tiles for Preproduction - Obligation Batch 1	100%	17-Aug-18 A	17-Aug-18 A		17-Aug-18	17-Aug-18	0	\$0.00	
OBLG201810	Procure Outer HCAL Scint. Tiles for Preproduction - Obligation Batch 2	100%	17-Aug-18 A	17-Aug-18 A		17-Aug-18	17-Aug-18	0	\$0.00	
OBLG201910	Procure Outer HCAL Scint. Tiles for Preproduction - Obligation Batch 3	100%	17-Aug-18 A	17-Aug-18 A		17-Aug-18	17-Aug-18	0	\$0.00	
S201700	Procure Outer HCAL Scint. Tiles for Preproduction - Contract Award(s) Batch 1	100%	17-Aug-18 A			17-Aug-18		0	\$0.00	
S201800	Procure Outer HCAL Scint. Tiles for Preproduction - Contract Award(s) Batch 2	100%	17-Aug-18 A			17-Aug-18		0	\$0.00	
S201900	Procure Outer HCAL Scint. Tiles for Preproduction - Contract Award(s) Batch 3	100%	17-Aug-18 A			17-Aug-18		0	\$0.00	
S202200	Procure Outer HCAL Scint. Tiles for Preproduction - Delivery Acceptance Batch 1	100%	12-Mar-19 A	27-Mar-19 A		12-Mar-19	27-Mar-19	0	\$0.00	
S202300	Procure Outer HCAL Scint. Tiles for Preproduction - Delivery Acceptance Batch 2	100%	03-Apr-19 A	23-Apr-19 A		03-Apr-19	23-Apr-19	0	\$0.00	
S202400	Procure Outer HCAL Scint. Tiles for Preproduction - Delivery Acceptance Batch 3	100%	02-May-19 A	23-May-19 A		02-May-19	23-May-19	0	\$0.00	
S202510	Outer HCAL Scintillating Tile Acceptance Testing (Preproduction)	100%	24-May-19 A	31-May-19 A		24-May-19	31-May-19	0	\$0.00	
S202512	Outer HCAL Scintillating Tile Acceptance Testing (Preproduction) Split	100%	01-Jul-19 A	15-Jul-19 A		03-Jun-19	26-Aug-19	125	\$2,116.89	
S202900	Procure Table for Outer HCAL sector assembly and testing area (Preproduction) - M&S	100%	16-Oct-18 A	28-Mar-19 A		16-Oct-18	28-Mar-19	0	\$0.00	
S203000	Procure Miscellaneous Tools for Outer HCAL sector assembly and testing area (Preprc	100%	01-Mar-19 A	31-May-19 A		01-Mar-19	31-May-19	0	\$0.00	
S203002	Procure Miscellaneous Tools for Outer HCAL sector assembly and testing area (Preprc	100%	03-Jun-19 A	25-Nov-19 A		03-Jun-19	19-Sep-19	0	\$2,206.53	
S203100	Populate Outer HCAL sectors with scintillating tiles (Preproduction)	100%	02-Aug-19 A	30-Aug-19 A		31-Oct-19	30-Jan-20	248	\$3,590.65	
S203200	Populate Outer HCAL sectors with electronics (Preproduction)	100%	01-Aug-19 A	30-Nov-20 A		27-Feb-20	20-May-20	248	\$3,590.65	
S203300	Outer HCAL Sector LED testing and Light Tighting (Preproduction) Labor	100%	04-Nov-19 A	30-Dec-20 A		12-Mar-20	04-Jun-20	248	\$3,590.65	
S203400	Outer HCAL Sector LED testing and Light Tighting (Preproduction) M&S	100%	04-Nov-19 A	30-Dec-20 A		12-Mar-20	04-Jun-20	0	\$5,462.04	
S203500	Outer HCAL Cosmics testing and initial calibration (Preproduction)	100%	25-Nov-19 A	30-Dec-20 A		26-Mar-20	18-Jun-20	248	\$3,590.65	
S208800	Procure Contracted Labor Georgia State Univ. (GSU), Phase 1 - Contract Award	100%	07-Aug-19 A			03-Jun-19		0	\$0.00	
S208900	Procure Contracted Labor Georgia State Univ. (GSU), Phase 1 - Delivery Acceptance	100%	07-Aug-19 A	30-Aug-19 A		03-Jun-19	26-Aug-19	0	\$0.00	
POM02.01.04.04.02 Outer HCAL Sector Assembly and Testing - Production			02-Dec-19 A	31-Mar-21 A		27-Aug-19	17-Sep-21	4160	\$171,373.65	
S209400	Procure Outer HCAL Assembly & Testing Equipment - Contract Award(s)	100%	05-Jun-20 A			22-Sep-20		0	\$0.00	
S209600	Procure Outer HCAL Assembly & Testing Equipment- Delivery Acceptance	100%	20-Jul-20 A	30-Jul-20 A		19-Nov-20	25-Nov-20	0	\$87,051.32	
S209800	Populate Outer HCAL sectors with scintillating tiles	100%	17-Aug-20 A	30-Mar-21 A		17-Feb-21	19-Aug-21	1040	\$15,509.30	
S209900	Populate Outer HCAL sectors with electronics	100%	15-Dec-20 A	30-Mar-21 A		24-Feb-21	26-Aug-21	1040	\$15,509.30	
S210000	Outer HCAL Sector LED testing and Light Tighting	100%	15-Dec-20 A	30-Mar-21 A		03-Mar-21	02-Sep-21	1040	\$15,509.30	
S210100	Procure Outer HCAL LED Testing & Light Tighting M&S	100%	15-Dec-20 A	30-Mar-21 A		03-Mar-21	02-Sep-21	0	\$22,285.14	
S210200	Outer HCAL Cosmics testing and initial calibration	100%	15-Dec-20 A	30-Mar-21 A		10-Mar-21	10-Sep-21	1040	\$15,509.30	
S210310	Technical support labor for HCal	100%	01-Mar-21 A	31-Mar-21 A		01-Apr-21	17-Sep-21	0	\$0.00	
S210600	Procure Contracted Labor Georgia State Univ. (GSU), Phase 2 - Contract Award	100%	02-Dec-19 A			27-Aug-19		0	\$0.00	
S210700	Procure Contracted Labor Georgia State Univ. (GSU), Phase 2 - Delivery Acceptance	100%	02-Dec-19 A	31-Dec-19 A		27-Aug-19	25-Aug-20	0	\$0.00	
POM02.01.05 Calorimeter Electronics			01-Feb-17 A	27-May-22 A		01-Feb-17	30-Jul-21	2184	\$6,290,621.04	
S1000879	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY19 M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$383,105.09	
S1001959	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY19 M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$64,370.01	
S211400	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY17	100%	01-Feb-17 A	29-Sep-17 A		01-Feb-17	29-Sep-17	0	\$33,387.00	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S211500	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	0	\$39,192.59	
POM02.01.05.01 SiPMs			12-Sep-18 A	28-Feb-20 A		12-Sep-18	21-Jul-20	1000	\$705,540.19	
S212600	EMCal/HCal sensors Preproduction - 23K Units - Contract Award	100%	12-Sep-18 A			12-Sep-18		0	\$0.00	
S212700	EMCal/HCal sensors Production - 77K Units - Contract Award	100%	12-Sep-18 A			12-Sep-18		0	\$0.00	
S213000	EMCal/HCal sensors Preproduction - 8K Units - Delivery Acceptance No. 1	100%	04-Mar-19 A	09-Apr-19 A		04-Mar-19	09-Apr-19	0	\$0.00	
S213010	EMCal/HCal sensors Preproduction - 8K Units - Delivery Acceptance No. 2	100%	04-Feb-19 A	11-Mar-19 A		04-Feb-19	11-Mar-19	0	\$0.00	
S213100	EMCal/HCal sensors Preproduction - 7K Units - Delivery Acceptance No. 3	100%	16-Apr-19 A	20-May-19 A		16-Apr-19	20-May-19	0	\$0.00	
S213200	Prepro Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 1	100%	03-Jun-19 A	31-Jul-19 A		03-Jun-19	28-Jun-19	80	\$1,225.95	
S213210	Prepro Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 2	100%	01-Jul-19 A	15-Jul-19 A		03-Jun-19	28-Jun-19	80	\$1,225.95	
S213300	Prepro Q/A Tested & Sorted devices 7 K Units Delivery Batch No. 3	100%	01-Jul-19 A	31-Jul-19 A		03-Jun-19	28-Jun-19	70	\$1,072.70	
S214700	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 4	100%	21-May-19 A	03-Jun-19 A		21-May-19	03-Jun-19	0	\$0.00	
S214800	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 5	100%	03-Jun-19 A	28-Jun-19 A		03-Jun-19	28-Jun-19	0	\$76,698.99	
S214900	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 6	100%	01-Jul-19 A	26-Jul-19 A		01-Jul-19	26-Jul-19	0	\$76,698.99	
S215000	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 7	100%	16-Aug-19 A	31-Aug-19 A		29-Jul-19	29-Aug-19	0	\$76,698.99	
S215100	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 8	100%	01-Oct-19 A	03-Oct-19 A		30-Aug-19	27-Sep-19	0	\$76,698.99	
S215200	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 9	100%	01-Nov-19 A	14-Nov-19 A		30-Sep-19	25-Oct-19	0	\$77,512.27	
S215300	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 10	100%	16-Dec-19 A	31-Dec-19 A		28-Oct-19	02-Dec-19	0	\$77,557.45	
S215310	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 11	100%	02-Jan-20 A	16-Jan-20 A		03-Dec-19	03-Jan-20	0	\$77,557.45	
S215320	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 12	100%	03-Feb-20 A	04-Feb-20 A		06-Jan-20	31-Jan-20	0	\$77,557.45	
S215400	EMCal/HCal sensors Production - 5K Units - Delivery Acceptance No. 13	100%	03-Feb-20 A	04-Feb-20 A		03-Feb-20	28-Feb-20	0	\$48,473.41	
S215600	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 4	100%	01-Jul-19 A	30-Sep-19 A		02-Oct-19	30-Oct-19	80	\$1,276.86	
S215800	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 5	100%	01-Jul-19 A	31-Dec-19 A		31-Oct-19	02-Dec-19	80	\$1,276.86	
S215900	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 6	100%	01-Aug-19 A	31-Dec-19 A		03-Dec-19	31-Dec-19	80	\$1,276.86	
S216000	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 7	100%	02-Jan-20 A	30-Jan-20 A		02-Jan-20	30-Jan-20	80	\$1,276.86	
S216100	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 8	100%	03-Feb-20 A	28-Feb-20 A		31-Jan-20	28-Feb-20	80	\$1,276.86	
S216200	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 9	100%	03-Feb-20 A	28-Feb-20 A		02-Mar-20	27-Mar-20	80	\$1,276.86	
S216300	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 10	100%	03-Feb-20 A	28-Feb-20 A		30-Mar-20	24-Apr-20	80	\$1,276.86	
S216310	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 11	100%	03-Feb-20 A	28-Feb-20 A		27-Apr-20	22-May-20	80	\$1,276.86	
S216320	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 12	100%	03-Feb-20 A	28-Feb-20 A		26-May-20	22-Jun-20	80	\$1,276.86	
S216400	Production Q/A Tested & Sorted devices 5 K Units Delivery Batch No. 13	100%	03-Feb-20 A	28-Feb-20 A		23-Jun-20	21-Jul-20	50	\$798.04	
S245000	Procure Test stand for SiPMs	100%	01-Aug-19 A	30-Dec-19 A		23-Jul-19	30-Sep-19	0	\$24,271.83	
POM02.01.05.02 Calorimeter Front End Electronics			01-Oct-18 A	27-May-22 A		01-Oct-18	30-Jul-21	1184	\$3,620,490.73	
POM02.01.05.02.01 EMCal Electronics: Preproduction			01-Oct-18 A	28-May-21 A		01-Oct-18	20-Feb-20	120	\$521,731.19	
S218300	Fabricate EMCal SiPM Daughter Boards: Preproduction [Sector 0] M&S	100%	01-Nov-18 A	21-Dec-18 A		01-Nov-18	21-Dec-18	0	\$0.00	
S218700	Fabricate EMCal Preamp Boards: Preproduction [Sector 0] M&S FY19	100%	01-Nov-18 A	09-Nov-18 A		01-Nov-18	09-Nov-18	0	\$0.00	
S219000	Fabricate EMCal Interface Board: Preproduction [Sector 0] M&S	100%	01-Nov-18 A	12-Dec-18 A		01-Nov-18	12-Dec-18	0	\$0.00	
S219300	Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Preproduction [Sector 0] M	100%	01-Oct-18 A	16-Apr-19 A		01-Oct-18	16-Apr-19	0	\$0.00	
S219500	Procure EMCal External Signal and Power Cables, and Power Systems: Preproductio	100%	01-Oct-18 A	16-Apr-19 A		01-Oct-18	16-Apr-19	0	\$0.00	
S221300	Fabricate EMCal SiPM Boards: Sectors 1-12 - M&S	100%	25-Nov-19 A	20-May-20 A		01-Oct-19	13-Nov-19	0	\$29,002.31	
S222000	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 1 - Contract Award(s)	100%	22-Oct-19 A			16-Dec-19		0	\$0.00	
S222001	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 2 - Contract Award(s)	100%	22-Oct-19 A			16-Dec-19		0	\$0.00	
S222200	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 1 - Delivery Acceptance	100%	03-Jan-20 A	09-Jan-20 A		06-Feb-20	12-Feb-20	0	\$89,810.79	
S222201	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 2 - Delivery Acceptance	100%	03-Jan-20 A	09-Jan-20 A		06-Feb-20	12-Feb-20	0	\$89,810.79	
S222300	Test EMCal Preamp Boards: Sectors 1-12	100%	10-Jan-20 A	29-Sep-20 A		13-Feb-20	20-Feb-20	120	\$1,915.29	
S222800	Fabricate EMCal Interface Board: Sectors 1-12, Phase 1 - Contract Award(s)	100%	01-Nov-19 A			09-Dec-19		0	\$0.00	

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Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost	
S222801	Fabricate EMCAL Interface Board: Sectors 1-12, Phase 2 - Contract Award(s)	100%	01-Nov-19 A			09-Dec-19		0	\$0.00	
S223000	Fabricate EMCAL Interface Board: Sectors 1-12, Phase 1 - Delivery Acceptance	100%	19-Feb-20 A	28-Feb-20 A		23-Jan-20	29-Jan-20	0	\$33,494.85	
S223001	Fabricate EMCAL Interface Board: Sectors 1-12, Phase 2 - Delivery Acceptance	100%	19-Feb-20 A	28-Feb-20 A		23-Jan-20	29-Jan-20	0	\$33,494.85	
S223300	Fabricate Calorimeter Controller Boards: Sectors 1-12 M&S	100%	01-Jul-19 A	15-Aug-19 A		01-Oct-19	13-Nov-19	0	\$23,010.00	
S223610	Procure EMCAL Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12 - Contract Aw	100%	01-Oct-19 A			01-Oct-19		0	\$0.00	
S223700	Procure EMCAL Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12, Phase 1 - M	100%	01-Oct-19 A	30-Apr-20 A		01-Oct-19	07-Oct-19	0	\$47,874.81	
S223701	Procure EMCAL Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12, Phase 2 - M	100%	01-Oct-19 A	30-Apr-20 A		01-Oct-19	07-Oct-19	0	\$47,874.81	
S223900	Procure EMCAL External LV/Bias Signal/Comm/Test Cables: Sectors 1-12, Phase 1 - M	100%	01-Apr-20 A	07-Apr-20 A		01-Oct-19	07-Oct-19	0	\$11,959.38	
S224000	Procure EMCAL External LV/Bias Signal/Comm/Test Cables: Sectors 1-12, Phase 2 - M	100%	01-Apr-20 A	07-Apr-20 A		01-Oct-19	07-Oct-19	0	\$47,837.51	
S224300	Procure EMCAL Low Voltage Power Systems: Sectors 1-12, Phase 1 - M&S	100%	01-Oct-19 A	28-May-21 A		01-Oct-19	07-Oct-19	0	\$3,504.81	
S224400	Procure EMCAL Low Voltage Power Systems: Sectors 1-12, Phase 2 - M&S	100%	01-Oct-19 A	28-May-21 A		01-Oct-19	07-Oct-19	0	\$14,019.25	
S225300	Test Pulse Boards 1-12 - M&S	100%	03-Aug-20 A	14-Aug-20 A		01-Oct-19	15-Oct-19	0	\$4,804.32	
S225900	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 1 - Contract Award(s)	100%	01-Apr-20 A			16-Dec-19		0	\$0.00	
S226000	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 2 - Contract Award(s)	100%	01-Apr-20 A			16-Dec-19		0	\$0.00	
S226100	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 1 - Contract/PO - Le	100%	01-Apr-20 A	23-Feb-21 A		16-Dec-19	12-Feb-20	0	\$0.00	
S226200	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 2 - Contract/PO - Le	100%	01-Apr-20 A	24-Feb-21 A		16-Dec-19	12-Feb-20	0	\$0.00	
S226300	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 1 - Delivery Accepta	100%	15-Dec-20 A	24-Feb-21 A		13-Feb-20	20-Feb-20	0	\$8,663.48	
S226400	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 2 - Delivery Accepta	100%	15-Dec-20 A	24-Feb-21 A		13-Feb-20	20-Feb-20	0	\$34,653.94	
POM02.01.05.02.02 EMCAL Electronics: Production			07-Apr-20 A	27-May-22 A		17-Apr-20	30-Jul-21	1064	\$2,569,136.53	
S227400	Fabricate SiPM Daughter Boards Sectors 13-64 - Contract Award(s)	100%	19-May-20 A			21-Jul-20		0	\$0.00	
S227600	Fabricate SiPM Daughter Boards Sectors 13-64 - Delivery Acceptance	100%	13-May-20 A	29-May-20 A		22-Jun-20	23-Jun-20	0	\$38,676.09	
S227605	Fabricate SiPM Daughter Boards Sectors 13-64 - Delivery Acceptance	100%	01-Dec-20 A	30-Apr-21 A		02-Nov-20	03-Nov-20	0	\$23,205.88	
S228100	Test SiPM Daughter Boards Production Sectors 13-64	100%	01-Dec-20 A	23-Nov-21 A		16-Sep-20	07-May-21	176	\$2,887.57	
S229100	Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Contract Award(s)	100%	14-Oct-20 A			21-Jul-20		0	\$0.00	
S229300	Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Delivery Acceptance	100%	26-Feb-21 A	28-May-21 A		07-Dec-20	11-Dec-20	0	\$549,642.06	
S229400	Test EMCAL Preamp Boards: Production Sectors 13-64	100%	26-Feb-21 A	23-Nov-21 A		14-Dec-20	08-Apr-21	384	\$6,312.80	
S229900	Fabricate EMCAL Interface Board Sectors 13-64 - Contract Award(s)	100%	15-Jun-20 A			21-Jul-20		0	\$0.00	
S230100	Fabricate EMCAL Interface Board Sectors 13-64 - Delivery Acceptance	100%	26-Oct-20 A	31-Dec-20 A		13-Nov-20	19-Nov-20	0	\$217,848.84	
S230200	Test EMCAL Interface Boards: Production Sectors 13-64	100%	01-Dec-20 A	30-Dec-20 A		20-Nov-20	19-Mar-21	384	\$6,312.80	
S230800	Fabricate Calorimeter Production Controller Boards - Contract Award(s)	100%	10-Aug-20 A			08-Jun-20		0	\$0.00	
S231000	Fabricate Calorimeter Production Controller Boards - Delivery Acceptance	100%	10-Aug-20 A	26-Aug-20 A		11-Jan-21	15-Jan-21	0	\$92,154.85	
S231100	Test Calorimeter Controller Boards: Production Sectors 13-64	100%	10-Aug-20 A	26-Aug-20 A		19-Jan-21	16-Mar-21	120	\$1,972.75	
S231600	Procure Internal EMCAL Signal/Test/Comm and LV/Bias: Production - Contract Award(s)	100%	28-May-20 A			08-Jun-20		0	\$0.00	
S231800	Procure Internal EMCAL Signal/Test/Comm and LV/Bias: Production - Delivery Accepta	100%	31-Dec-20 A	28-May-21 A		29-Oct-20	04-Nov-20	0	\$288,193.27	
S232500	Fabricate Test-pulse Boards 13 - 64 - M&S	100%	17-May-21 A	28-May-21 A		17-Apr-20	23-Apr-20	0	\$8,022.38	
S233000	Procure EMCAL External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - Contract A	100%	31-Aug-21 A			01-Oct-20		0	\$0.00	
S233200	Procure EMCAL External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - Delivery A	100%	20-Jul-21 A	27-May-22 A		02-Mar-21	08-Mar-21	0	\$205,854.33	
S233250	Trunk Signal Cables - EMCAL	100%	31-Aug-21 A	31-Mar-22 A		01-Dec-20	30-Jul-21	0	\$777,844.20	
S233800	Procure EMCAL Bias Power System Sectors 13-64 - Contract Award(s)	100%	07-Apr-20 A			01-Oct-20		0	\$0.00	
S234000	Procure EMCAL Bias Power System Sectors 13-64 - Delivery Acceptance	100%	22-Feb-21 A	15-Mar-21 A		27-Apr-21	03-May-21	0	\$155,680.27	
S234100	EMCAL Low Voltage Power System Sectors 13-64 - M&S	100%	31-Aug-20 A	29-Jun-21 A		17-Apr-20	04-Nov-20	0	\$39,269.60	
S234200	EMCAL Crates for Controllers - M&S	100%	26-Oct-20 A	28-May-21 A		17-Apr-20	04-Nov-20	0	\$5,948.45	
S244450	Trunk Signal Cables - OuterHCal	100%	31-Aug-21 A	28-Dec-21 A		01-Dec-20	30-Jul-21	0	\$149,310.43	
POM02.01.05.02.03 HCal Electronics: Preproduction			01-Nov-18 A	30-Aug-19 A		01-Nov-18	24-Sep-19	0	\$73,438.84	
S236200	Fabricate HCal SiPM Boards: (6 Modules) M&S	100%	11-Jul-19 A	17-Jul-19 A		01-Jul-19	24-Sep-19	0	\$31,674.74	

POM02 sPHENIX WBS 1.x, 2.x October 2022		sPHENIX MIE Full Schedule			Page 16 of 18 pages			18-Nov-22 11:02	
Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost
S236500	Fabricate HCal Preamp Boards: (6 Modules) M&S	100%	01-Nov-18 A	30-Apr-19 A		01-Nov-18	30-Apr-19	0	\$0.00
S236800	Fabricate HCal LED Boards: (6 Modules) M&S	100%	03-Jun-19 A	28-Jun-19 A		03-Jun-19	30-Jul-19	0	\$14,419.67
S237100	Fabricate HCal Interface Boards: (6 Modules) M&S	100%	02-Jan-19 A	29-Apr-19 A		02-Jan-19	29-Apr-19	0	\$0.00
S237400	Fabricate HCal Backplane: (6 Modules) M&S	100%	02-Jan-19 A	25-Feb-19 A		02-Jan-19	25-Feb-19	0	\$0.00
S237700	Procure Hcal Power and Signal Cables and Power System: (6 Modules), Phase 1 - M&	100%	02-Jan-19 A	31-May-19 A		02-Jan-19	31-May-19	0	\$0.00
S237710	Procure Hcal Power and Signal Cables and Power System: (6 Modules), Phase 1 - M&	100%	03-Jun-19 A	30-Aug-19 A		03-Jun-19	24-Sep-19	0	\$5,468.88
S237800	Procure Hcal Power and Signal Cables and Power System: (6 Modules), Phase 2 - M&	100%	03-Jun-19 A	30-Aug-19 A		03-Jun-19	24-Sep-19	0	\$21,875.54
POM02.01.05.02.04 HCal Electronics: Production			30-Mar-20 A	27-Apr-22 A		09-Apr-20	15-Jan-21	0	\$456,184.16
S238900	Fabricate HCal SiPM Boards - Contract Award(s)	100%	30-Mar-20 A			13-Jul-20		0	\$0.00
S239100	Fabricate HCal SiPM Boards - Delivery Acceptance	100%	14-Sep-20 A	30-Sep-20 A		11-Jan-21	15-Jan-21	0	\$110,822.14
S240200	Fabricate HCal Preamp Boards - Contract Award(s)	100%	01-May-20 A			06-Jul-20		0	\$0.00
S240400	Fabricate HCal Preamp Boards - Delivery Acceptance	100%	11-Aug-20 A	31-Aug-20 A		28-Oct-20	03-Nov-20	0	\$48,010.55
S241500	Fabricate HCal LED Boards - Contract Award(s)	100%	08-Apr-20 A			13-Jul-20		0	\$0.00
S241700	Fabricate HCal LED Boards - Delivery Acceptance	100%	11-May-20 A	15-May-20 A		08-Sep-20	14-Sep-20	0	\$50,144.98
S242000	Fabricate HCal Backplane Boards: Production - M&S	100%	01-May-20 A	28-May-20 A		09-Apr-20	28-Sep-20	0	\$17,542.26
S242300	Fabricate HCal Interface Boards Production - Provide Requirements to Procurement	100%	01-Apr-20 A	07-Apr-20 A		09-Apr-20	15-Apr-20	0	\$0.00
S242700	Fabricate HCal Interface Boards Production - Contract Award(s)	100%	29-Apr-20 A			07-May-20		0	\$0.00
S242900	Fabricate HCal Interface Boards Production - Delivery Acceptance	100%	14-Oct-20 A	16-Nov-20 A		01-Jun-20	05-Jun-20	0	\$33,329.85
S243500	Procure HCal Electronics Production Power & Signal Cables (Internal) - ContractAwar	100%	27-May-20 A			13-Jul-20		0	\$0.00
S243700	Procure HCal Electronics Production Power & Signal Cables (Internal) - Delivery Acce	100%	27-May-20 A	29-May-20 A		06-Jan-21	12-Jan-21	0	\$94,394.97
S244200	HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (External) - C	100%	27-May-20 A			13-Jul-20		0	\$0.00
S244400	HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (External) - I	100%	14-Dec-20 A	27-Apr-22 A		06-Oct-20	13-Oct-20	0	\$101,939.42
POM02.01.05.02.05 Calorimeter Front End Electronics Procure Contracted Labor and M&S			28-Jun-19 A	01-Oct-19 A		23-Jul-19	01-Oct-19	0	\$0.00
S244800	Procure Contracted Labor & M&S Univ. Michigan (UM), Phase 1 - Contract Award	100%	28-Jun-19 A			23-Jul-19		0	\$0.00
S245100	Procure Contracted Labor & M&S Univ. Michigan (UM), Phase 2 - Contract Award	100%	01-Oct-19 A			01-Oct-19		0	\$0.00
POM02.01.05.03 Calorimeter Digitizer System			07-May-18 A	27-May-22 A		07-May-18	29-Mar-21	0	\$1,444,535.43
POM02.01.05.03.01 Calorimeter Digitizer: Preproduction Prototype			07-May-18 A	30-Sep-20 A		07-May-18	18-Dec-19	0	\$385,146.36
OBLG247210	Procure 1/2-Crate Digitizer - Parts - Obligation	100%	07-May-18 A	07-May-18 A		07-May-18	07-May-18	0	\$0.00
OBLG247310	Procure 1/2-Crate Digitizer - Boards - Obligation	100%	07-May-18 A	07-May-18 A		07-May-18	07-May-18	0	\$0.00
OBLG247410	Procure 1/2-Crate Digitizer - Assembly & Tests - Obligation	100%	07-May-18 A	07-May-18 A		07-May-18	07-May-18	0	\$0.00
OBLG250410	Procure EMCAL 7-Crate Digitizer - Parts - Obligation	100%	31-Jan-19 A	31-Jan-19 A		31-Jan-19	31-Jan-19	0	\$0.00
OBLG250510	Procure EMCAL 7-Crate Digitizer (Boards) - Obligation	100%	31-Jan-19 A	31-Jan-19 A		31-Jan-19	31-Jan-19	0	\$0.00
OBLG250610	Procure EMCAL 7-Crate Digitizer (Assembly & Tests) - Obligation	100%	31-Jan-19 A	31-Jan-19 A		31-Jan-19	31-Jan-19	0	\$0.00
S247200	Procure 1/2-Crate Digitizer - Parts - Contract Award(s)	100%	07-May-18 A			07-May-18		0	\$0.00
S247300	Procure 1/2-Crate Digitizer - Boards - Contract Award(s)	100%	07-May-18 A			07-May-18		0	\$0.00
S247400	Procure 1/2-Crate Digitizer - Assembly & Tests - Contract Award(s)	100%	07-May-18 A			07-May-18		0	\$0.00
S247700	Procure 1/2-Crate Digitizer - Parts - Delivery Acceptance	100%	01-Nov-18 A	07-Nov-18 A		01-Nov-18	07-Nov-18	0	\$0.00
S248000	Procure 1/2-Crate Digitizer - Boards - Delivery Acceptance	100%	01-Nov-18 A	07-Nov-18 A		01-Nov-18	07-Nov-18	0	\$0.00
S248100	Procure 1/2-Crate Digitizer - Contract/PO - Leadtime for Assembly & Tests	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$0.00
S248200	Procure 1/2-Crate Digitizer - Contract/PO - Delivery Acceptance for Assembly & Tests	100%	20-Jun-19 A	28-Jun-19 A		11-Jul-19	17-Jul-19	0	\$55,163.25
S250400	Procure EMCAL 7-Crate Digitizer - Parts - Contract Award	100%	01-Aug-19 A			03-Jun-19		0	\$0.00
S250500	Procure EMCAL 7-Crate Digitizer - Boards - Contract Award	100%	01-Aug-19 A			03-Jun-19		0	\$0.00
S250600	Procure EMCAL 7-Crate Digitizer - Assembly & Tests - Contract Award	100%	02-Dec-19 A			03-Jun-19		0	\$0.00
S251000	Procure EMCAL 7-Crate Digitizer - Parts - Delivery Acceptance	100%	03-Sep-19 A	25-Nov-19 A		13-Sep-19	19-Sep-19	0	\$195,673.99
S251100	Procure EMCAL 7-Crate Digitizer (Boards) - Delivery Acceptance	100%	19-Nov-19 A	30-Jun-20 A		13-Sep-19	19-Sep-19	0	\$43,436.65



POM02 sPHENIX WBS 1.x, 2.x October 2022		sPHENIX MIE Full Schedule			Page 17 of 18 pages			18-Nov-22 11:02	
Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost
S251200	Procure EMCAL 7-Crate Digitizer (Assembly & Tests) - Delivery Acceptance	100%	03-Aug-20 A	30-Sep-20 A		12-Dec-19	18-Dec-19	0	\$90,872.48
POM02.01.05.03.02 Calorimeter Digitizers: Production			02-Nov-20 A	27-May-22 A		01-Oct-20	29-Mar-21	0	\$1,059,389.07
S252100	Procure Production Digitizer (Parts) Contract Award(s)	100%	02-Nov-20 A			01-Oct-20		0	\$0.00
S252200	Procure Production Digitizer (Boards) Contract Award(s)	100%	02-Nov-20 A			01-Oct-20		0	\$0.00
S252300	Procure Production Digitizer (Assembly & Tests) - Contract Award(s)	100%	02-Nov-20 A			01-Oct-20		0	\$0.00
S252700	Procure Production Digitizer (Parts) - Delivery Acceptance	100%	30-Apr-21 A	28-Feb-22 A		23-Dec-20	30-Dec-20	0	\$678,538.37
S252800	Procure Production Digitizer (Boards) - Delivery Acceptance	100%	16-Aug-21 A	28-Dec-21 A		23-Dec-20	30-Dec-20	0	\$149,785.15
S252900	Procure Production Digitizer (Assembly & Tests) - Delivery Acceptance	100%	16-Aug-21 A	27-May-22 A		23-Mar-21	29-Mar-21	0	\$231,065.55
POM02.01.06 DAQ/Trigger			01-Feb-17 A	28-Oct-22 A		01-Feb-17	29-Jun-21	0	\$1,123,587.64
S1000959	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY18	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$23,190.70
S253400	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY17	100%	01-Feb-17 A	29-Sep-17 A		01-Feb-17	29-Sep-17	0	\$0.00
S253500	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY18	100%	02-Oct-17 A	28-Sep-18 A		02-Oct-17	28-Sep-18	0	\$2,781.51
POM02.01.06.01 DAQ			30-Mar-20 A	29-Jul-22 A		20-Apr-20	05-May-21	0	\$614,355.42
POM02.01.06.01.03 DAQ Production			30-Mar-20 A	29-Jul-22 A		20-Apr-20	05-May-21	0	\$614,355.42
S255700	Procure DAQ Production Boards DCM2 - Contract Award(s)	100%	22-Nov-21 A			18-May-20		0	\$0.00
S255900	Procure DAQ Production Boards DCM2 - Delivery Acceptance	100%	01-Jul-22 A	29-Jul-22 A		08-Mar-21	12-Mar-21	0	\$0.00
S256500	Procure DAQ Production Crates - Contract Award(s)	100%	22-Nov-21 A			20-Apr-20		0	\$0.00
S256700	Procure DAQ Production Crates - Delivery Acceptance	100%	01-Jul-22 A	29-Jul-22 A		08-Mar-21	12-Mar-21	0	\$74,283.80
S257400	Procure DAQ Production SEBs - Contract Award(s)	100%	30-Sep-20 A			16-Jun-20		0	\$0.00
S257600	Procure DAQ Production SEBs - Delivery Acceptance	100%	28-Oct-20 A	30-Nov-20 A		08-Mar-21	12-Mar-21	0	\$47,634.48
S258200	Procure DAQ Production ATPs - Contract Award(s)	100%	30-Sep-20 A			16-Jun-20		0	\$0.00
S258400	Procure DAQ Production ATPs - Delivery Acceptance	100%	22-Oct-20 A	30-Nov-20 A		12-Apr-21	16-Apr-21	0	\$113,802.78
S258700	Procure DAQ Production jackboard Slow control computers - Delivery Acceptance	100%	21-Feb-22 A	28-Feb-22 A		23-Jun-20	29-Jun-20	0	\$19,180.88
S259300	Procure DAQ Production Buffer Boxes - Contract Award(s)	100%	28-Oct-20 A			16-Jun-20		0	\$0.00
S259500	Procure DAQ Production Buffer Boxes - Delivery Acceptance	100%	23-Nov-20 A	30-Sep-21 A		29-Apr-21	05-May-21	0	\$259,459.37
S260100	Procure DAQ Production Main Switches - Contract Award(s)	100%	30-Mar-20 A			16-Jun-20		0	\$0.00
S260300	Procure DAQ Production Main Switches - Delivery Acceptance	100%	21-Apr-20 A	24-Apr-20 A		09-Dec-20	15-Dec-20	0	\$99,994.11
POM02.01.06.02 Local Level 1 Trigger (LL1)			28-Sep-18 A	28-Oct-22 A		28-Sep-18	29-Jun-21	0	\$402,302.28
POM02.01.06.02.01 LL1 Trigger Design			28-Sep-18 A	04-Jun-19 A		28-Sep-18	04-Jun-19	0	\$0.00
S261400	Trigger Design, Layout Custom LL1 - Contract Award(s)	100%	28-Sep-18 A			28-Sep-18		0	\$0.00
S261600	Trigger Design, Layout Custom LL1 - Delivery Acceptance	100%	04-Jun-19 A	04-Jun-19 A		04-Jun-19	04-Jun-19	0	\$0.00
POM02.01.06.02.02 LL1 Trigger Prototype v1			01-Jul-19 A	17-Mar-20 A		03-Jul-19	17-Mar-20	0	\$196,861.16
S262300	Procure Prototype V1 Trigger Board - Contract Award(s)	100%	01-Jul-19 A			03-Jul-19		0	\$0.00
S262500	Procure Prototype V1 Trigger Board - Delivery Acceptance	100%	11-Mar-20 A	17-Mar-20 A		11-Mar-20	17-Mar-20	0	\$196,861.16
POM02.01.06.02.03 LL1 Trigger Preproduction Prototype			01-Mar-21 A	20-Dec-21 A		28-Jul-20	07-Dec-20	0	\$69,641.06
S263400	Procure Trigger Preproduction Prototype LL1 - Contract Award(s)	100%	01-Mar-21 A			28-Jul-20		0	\$0.00
S263600	Procure Trigger Preproduction Prototype LL1 - Delivery Acceptance	100%	13-Dec-21 A	20-Dec-21 A		01-Dec-20	07-Dec-20	0	\$69,641.06
POM02.01.06.02.04 LL1 Trigger Production			31-Mar-21 A	28-Oct-22 A		11-May-21	29-Jun-21	0	\$135,800.06
S264700	Procure Production LL1 System - Contract Award(s)	100%	31-Mar-21 A			11-May-21		0	\$0.00
S264900	Procure Production LL1 System - Delivery Acceptance	100%	01-Aug-22 A	28-Oct-22 A		23-Jun-21	29-Jun-21	0	\$135,800.06
POM02.01.06.03 Global Level 1 Trigger (GL1)			15-Nov-21 A	27-May-22 A		18-Aug-20	07-Jan-21	0	\$32,673.26
POM02.01.06.03.03 GL1 Trigger Production			15-Nov-21 A	27-May-22 A		18-Aug-20	07-Jan-21	0	\$32,673.26
S267400	Procure Production GL1 Components - Contract Award(s)	100%	25-Jan-22 A			18-Aug-20		0	\$0.00
S267600	Procure Production GL1 Components - final hardware - Delivery Acceptance	100%	15-Nov-21 A	27-May-22 A		31-Dec-20	07-Jan-21	0	\$32,673.26
POM02.01.06.04 Timing System			15-Nov-21 A	20-May-22 A		06-May-20	15-Jan-21	0	\$48,284.47

Activity ID	Activity Name	%	Start	Finish	Expected Finish	BL Project Start	BL Project Finish	Hours	BL Project Total Cost
POM02.01.06.04.03 Timing System Production			15-Nov-21 A	20-May-22 A		06-May-20	15-Jan-21	0	\$48,284.47
S270100	Timing System Production (FPGA Boards) - Contract Award(s)	100%	25-Jan-22 A			06-May-20		0	\$0.00
S270300	Timing System Production (FPGA Boards) - Delivery Acceptance	100%	15-Nov-21 A	20-May-22 A		11-Jan-21	15-Jan-21	0	\$48,284.47
POM02.01.07 Min Bias Trigger Detector			01-Feb-17 A	28-Oct-22 A		01-Feb-17	22-Feb-21	0	\$170,169.82
OBLG272410	Procure Prototype Shaper/Disc Electronics - Obligation	100%	28-Sep-18 A	28-Sep-18 A		28-Sep-18	28-Sep-18	0	\$0.00
S1001039	Actuals - Nonlabor - sPHENIX MinBias Trigger FY19 M8	100%	01-Oct-18 A	31-May-19 A		01-Oct-18	31-May-19	0	\$21,505.33
S271200	Actuals - Nonlabor - sPHENIX MinBias Trigger FY17	100%	01-Feb-17 A	29-Sep-17 A		01-Feb-17	29-Sep-17	0	\$0.00
S271300	Actuals - Nonlabor - sPHENIX MinBias Trigger FY18	100%	01-Oct-17 A	28-Sep-18 A		01-Oct-17	28-Sep-18	0	\$413.67
S272400	Procure Prototype Shaper/Disc Electronics - Contract Award(s)	100%	28-Sep-18 A			28-Sep-18		0	\$0.00
S272600	Procure Prototype Shaper/Disc Electronics - Delivery Acceptance	100%	03-Jun-19 A	08-Jul-19 A		01-Jul-19	08-Jul-19	0	\$77,228.55
S273200	Procure Min/Bias Electronics - sPHENIX Production Digitizers - Contract Award(s)	100%	26-Feb-21 A			07-Apr-20		0	\$0.00
S273300	Procure Shaper/Disc Board 128 Channels - Contract Award(s)	100%	01-Apr-21 A			07-Apr-20		0	\$0.00
S273500	Procure Min/Bias Electronics (sPHENIX Production Digitizers) - Delivery Acceptance	100%	23-Aug-21 A	31-Mar-22 A		16-Feb-21	22-Feb-21	0	\$17,143.31
S273600	Procure MBD Shaper/Disc Board 128 Channels - Delivery Acceptance	100%	15-Aug-22 A	28-Oct-22 A		16-Feb-21	22-Feb-21	0	\$53,878.97