

POM02 sPHENIX WBS 1.x, 2.x October 2022				Glenn's Layout				Page 1 of 87 pages				07-Nov-22 15:54		
Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
POM02 POM02 sPHENIX WBS 1.x, 2.x October 2022			1635		27-Sep-16 A	17-Apr-23	09-Feb-23	0	27-Sep-16	14-Feb-23	51744288	389769	\$97,989,963.99	
POM02.01 MIE Project			1562		27-Sep-16 A	29-Dec-22	14-Nov-22	73	27-Sep-16	29-Dec-22	34002437	266338	\$62,285,267.63	
POM02.01.01 Project Management			1562		27-Sep-16 A	29-Dec-22		73	27-Sep-16	29-Dec-22	899945	45731	\$8,716,028.36	
S1001839		Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	22509	0	\$24,833.89	A-TEC
S102100		Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY17	417	100%	01-Feb-17 A	28-Sep-18 A			01-Feb-17	28-Sep-18	0	0	\$0.00	A-OPC
S102200		Actuals - Labor - B - BNL Contributed Labor - sPHENIX Project Management f	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	2984	\$498,662.00	B
S102300		Actuals - Labor - A - MIE - sPHENIX Project Management FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	641	\$107,106.54	A-OPC
S102400		Actuals - Labor - A - MIE - sPHENIX Project Management FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	1694	\$283,043.66	A-OPC
S102500		Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	547599	0	\$610,909.39	A-OPC
S102600		Actuals - Labor - B - BNL Contributed Labor - sPHENIX Project Management f	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	6861	\$1,146,441.05	B
S102605		Actuals - Labor - A - MIE - sPHENIX Project Management FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	69	\$11,566.17	A-OPC
S102606		Actuals - Nonlabor - A - MIE - sPHENIX Project Management FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	298116	0	\$328,901.50	A-OPC
S102610		Actuals - Labor - B - BNL Contributed Labor - sPHENIX Project Management f	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	6325	\$1,056,792.37	B
POM02.01.01.01 Management Overview			1562		27-Sep-16 A	29-Dec-22		0	27-Sep-16	29-Dec-22	0	0	\$0.00	
S100000	003	Start sPHENIX MIE Project	0	100%	27-Sep-16 A				27-Sep-16		0	0	\$0.00	
S100010		Approve Mission Need CD-0	0	100%	27-Sep-16 A				27-Sep-16		0	0	\$0.00	
S100090		Initial Project Funding Release	0	100%	01-Feb-17 A				01-Feb-17		0	0	\$0.00	
S100200	003	Prepare for CD-1 Review	330	100%	01-Feb-17 A	25-May-18 A			01-Feb-17	25-May-18	0	0	\$0.00	
S100300		Prototype 2018 Spending Authorization	0	100%		18-Dec-17 A				18-Dec-17	0	0	\$0.00	
S100340		BNL Prototype Spending Authorization	0	100%	13-Feb-18 A				13-Feb-18		0	0	\$0.00	
S100400	003	CD-1 Review	2	100%	23-May-18 A	25-May-18 A			23-May-18	25-May-18	0	0	\$0.00	
S100500		Approve Cost Range and Long lead Procurement CD-1/3A	0	100%		17-Aug-18 A				17-Aug-18	0	0	\$0.00	
S100600		CD-3A Budget Appropriation	0	100%		13-Nov-18 A				13-Nov-18	0	0	\$0.00	
S100700	003,004	Start PD-2/3 Review preparation	89	100%	23-May-18 A	28-Sep-18 A			23-May-18	28-Sep-18	0	0	\$0.00	
S100750	004	Prepare for PD-2/3 Review	162	100%	28-Sep-18 A	24-May-19 A			28-Sep-18	24-May-19	0	0	\$0.00	
S100800	004	PD-2/3 Review	2	100%	28-May-19 A	30-May-19 A			28-May-19	30-May-19	0	0	\$0.00	
S100900	004	Transition to PD2/3	77	100%	31-May-19 A	19-Sep-19 A			31-May-19	19-Jul-19	0	0	\$0.00	
S101000	004	Approve Project Baseline and Construction PD2/3	0	100%		20-Sep-19 A				24-Jul-19	0	0	\$0.00	
S101008	003	FY18 funding available	0	100%	02-Oct-17 A				02-Oct-17		0	0	\$0.00	
S101009	003	FY19 funding available	0	100%	01-Nov-18 A				01-Nov-18		0	0	\$0.00	
S101010	003	FY20 funding available	0	100%	01-Oct-19 A				01-Oct-19		0	0	\$0.00	
S101012	003	IR Ready for Prep	0	100%	29-Nov-19 A				01-Oct-19		0	0	\$0.00	
S101015	003	FY21 funding available	0	100%	01-Oct-20 A				01-Oct-20		0	0	\$0.00	
S101016	003	FY22 funding available	0	100%	01-Oct-21 A				01-Oct-21		0	0	\$0.00	A-TEC
S101020	030A	Internal Project Float	0	0%	15-Nov-22	15-Nov-22		0	30-Sep-22	30-Sep-22	0	0	\$0.00	A-TEC
S101022	030A	Early Project Completion	0	0%		15-Nov-22		0		30-Sep-22	0	0	\$0.00	A-TEC
S101030	030A	WBS 1X Schedule Contingency	30	0%	15-Nov-22	29-Dec-22		0	30-Sep-22	29-Dec-22	0	0	\$0.00	A-TEC
S101040	004	Approve Project Closeout PD-4	0	0%		29-Dec-22*		0		29-Dec-22	0	0	\$0.00	A-TEC
POM02.01.01.02 Labor by FY			1248		01-Feb-17 A	31-Jan-22 A			01-Feb-17	14-Oct-21	0	27157	\$4,604,948.57	
S102700		Mgmt labor FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	
S102800		Mgmt labor - A - MIE - FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	
S103600		Mgmt labor - B - BNL Contributed Labor - FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	
S102900	004	Mgmt labor - A - MIE, Phase 1 - FY19	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S102905	004	Mgmt labor - A - MIE, Phase 1 - FY19 split	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	464	\$71,048.15	A-OPC
S102910	004	Mgmt labor - A - MIE, Phase 2 - FY19	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-TEC

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S102915	004	Mgmt labor - A - MIE, Phase 2 - FY19 split	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	285	\$43,639.49	A-TEC
S103700		Mgmt labor - B - BNL Contributed Labor - FY19 - Physics Resource(s)	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B
S103705		Mgmt labor - B - BNL Contributed Labor - FY19 - Physics Resource(s) Split	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	3057	\$503,203.51	B
S103710		Mgmt labor - B - BNL Contributed Labor - FY19 - CA-D Resource(s)	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B
S103715		Mgmt labor - B - BNL Contributed Labor - FY19 - CA-D Resource(s) Split	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	296	\$48,872.50	B
S103000	003	Mgmt Labor - A - MIE - FY20	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	1559	\$245,877.14	A-TEC
S103100		Mgmt labor - B - BNL Contributed Labor - FY20 - Physics Resource(s)	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	9117	\$1,545,367.67	B
S103110		Mgmt labor - B - BNL Contributed Labor - FY20 - CA-D Resource(s)	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	884	\$150,254.13	B
S103200	003	Mgmt Labor - A - MIE - FY21	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	29-Sep-21	0	1050	\$170,568.39	A-TEC
S103300		Mgmt labor - B - BNL Contributed Labor - FY21 - Physics Resource(s)	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	29-Sep-21	0	9100	\$1,589,055.94	B
S103310		Mgmt labor - B - BNL Contributed Labor - FY21 - CA-D Resource(s)	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	29-Sep-21	0	880	\$154,145.17	B
S103400	003,004	Mgmt labor - A - MIE - FY22	79	100%	01-Oct-21 A	31-Jan-22 A			01-Oct-21	14-Oct-21	0	68	\$11,360.99	A-TEC
S103500		Mgmt labor - B - BNL Contributed Labor - FY22 - Physics Resource(s)	79	100%	01-Oct-21 A	31-Jan-22 A			01-Oct-21	14-Oct-21	0	363	\$65,204.69	B
S103510	004	Mgmt labor - B - BNL Contributed Labor - FY22 - CA-D Resource(s)	79	100%	01-Oct-21 A	31-Jan-22 A			01-Oct-21	14-Oct-21	0	35	\$6,350.78	B
POM02.01.01.03 Management Travel			1168		01-Feb-17 A	30-Sep-21 A			01-Feb-17	30-Sep-21	31720	0	\$42,823.20	
S103800		Travel FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	
S103900	003	Travel FY18	249	100%	02-Oct-17 A	01-Oct-18 A			02-Oct-17	01-Oct-18	0	0	\$0.00	
S104000		Travel FY19	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S104010		Travel FY19 Split	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	6720	0	\$8,837.55	A-OPC
S104100		Travel FY20	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	20000	0	\$27,080.20	A-TEC
S104200		Travel FY21	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	30-Sep-21	5000	0	\$6,905.45	A-TEC
POM02.01.02 TPC			1448		01-Feb-17 A	14-Nov-22	14-Nov-22	103	01-Feb-17	30-Sep-22	7547378	80880	\$12,216,572.56	
149650	003	Actuals - Labor - sPHENIX TPC FY18	248	100%	02-Oct-17 A	28-Sep-18 A					0	4288	\$716,472.60	B
S1000759	003	Actuals - NonLabor - sPHENIX TPC FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	390830	0	\$431,189.26	A-OPC
S1000799	003	Actuals - NonLabor - sPHENIX TPC FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	140825	0	\$155,367.00	B
S104400	003	Actuals - Labor - sPHENIX TPC FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	1405	\$234,824.00	B
S104510	003	Actuals - Labor - sPHENIX TPC FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	2218	\$370,642.11	B
S104600	003	Actuals - Nonlabor - sPHENIX TPC FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	18789	0	\$20,960.99	A-OPC
S104700	003	Actuals - Nonlabor - sPHENIX TPC FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	A-OPC
S104710	003	Actuals - Nonlabor - sPHENIX TPC FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	246200	0	\$274,664.36	A-OPC
POM02.01.02.01 TPC Mechanics			1448		01-Feb-17 A	14-Nov-22	14-Nov-22	103	01-Feb-17	20-Jan-22	1038655	19432	\$1,421,693.64	
POM02.01.02.01.01 TPC v1 Field Cage Prototype			1082		01-Feb-17 A	28-May-21 A			01-Feb-17	24-Feb-21	15400	1544	\$40,356.26	
OBLG1073		Procure TPC v1 End Cap - Obligation Phase 1	0	100%	11-Sep-18 A	11-Sep-18 A			11-Sep-18	11-Sep-18	0	0	\$0.00	A-OPC
OBLG1074		Procure TPC v1 End Cap - Obligation Phase 2	0	100%	11-Sep-18 A	11-Sep-18 A			11-Sep-18	11-Sep-18	0	0	\$0.00	A-OPC
S104800		Produce TPC v1 Field Cage Prototype Conceptual Design	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	
S104900		Produce TPC v1 Mandrel Conceptual Design	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	
S105000		Procure TPC v1 Mandrel Parts Labor	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	
S105100		Assemble TPC v1 Mandrel	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	
S105200		Procure TPC v1 Mandrel Parts M&S	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	
S105300		Produce TPC v1 Outer Field Cage Conceptual Design	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	
S105400		Procure TPC v1 Outer Field Cage Parts Labor	167	100%	01-Feb-17 A	28-Sep-17 A			01-Feb-17	28-Sep-17	0	0	\$0.00	
S105500		Assemble TPC v1 Outer Field Cage FY18	249	100%	29-Sep-17 A	28-Sep-18 A			29-Sep-17	28-Sep-18	0	0	\$0.00	
S105600		Assemble TPC v1 Outer Field Cage FY19	59	100%	01-Oct-18 A	28-Dec-18 A			01-Oct-18	28-Dec-18	0	0	\$0.00	T
S105700		Procure TPC v1 Outer Field Cage Parts M&S	167	100%	01-Feb-17 A	28-Sep-17 A			01-Feb-17	28-Sep-17	0	0	\$0.00	
S105800		Produce TPC v1 Inner Field Cage Conceptual Design	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	

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S105900		Procure TPC v1 Inner Field Cage Parts Labor	167	100%	01-Feb-17 A	28-Sep-17 A			01-Feb-17	28-Sep-17	0	0	\$0.00	
S106000		Assemble TPC v1 Inner Field Cage FY18	249	100%	29-Sep-17 A	28-Sep-18 A			29-Sep-17	28-Sep-18	0	0	\$0.00	
S106100		Assemble TPC v1 Inner Field Cage FY19	290	100%	01-Oct-18 A	29-Nov-19 A			01-Oct-18	25-Jul-19	0	288	\$0.00	T
S106200		Procure TPC v1 Inner Field Cage Parts M&S	167	100%	01-Feb-17 A	28-Sep-17 A			01-Feb-17	28-Sep-17	0	0	\$0.00	
S106300		Design TPC Field Cage Prototype v1 End Rings	3	100%	01-Feb-17 A	06-Feb-17 A			01-Feb-17	06-Feb-17	0	0	\$0.00	
S106400		Procure TPC Field Cage Prototype v1 End Rings Labor	39	100%	07-Feb-17 A	04-Apr-17 A			07-Feb-17	04-Apr-17	0	0	\$0.00	
S106500		Procure TPC Field Cage Prototype v1 End Rings M&S	39	100%	07-Feb-17 A	04-Apr-17 A			07-Feb-17	04-Apr-17	0	0	\$0.00	
S106600		Produce TPC v1 End Cap Conceptual Design	149	100%	01-Feb-17 A	01-Sep-17 A			01-Feb-17	01-Sep-17	0	0	\$0.00	
S106700		TPC v1 End Cap Conceptual Design Review	0	100%	01-Jun-18 A	01-Jun-18 A			01-Jun-18	01-Jun-18	0	0	\$0.00	
S106800		TPC v1 End Cap Production Readiness Review	0	100%	06-Jun-18 A	06-Jun-18 A			06-Jun-18	06-Jun-18	0	0	\$0.00	
S106900		Procure TPC v1 End Cap - Provide Requirements to Procurement	4	100%	07-Jun-18 A	13-Jun-18 A			07-Jun-18	13-Jun-18	0	0	\$0.00	
S107000		Procure TPC v1 End Cap - Prepare & Send Solicitation	29	100%	14-Jun-18 A	26-Jul-18 A			14-Jun-18	26-Jul-18	0	0	\$0.00	
S107100		Procure TPC v1 End Cap - Vendor Responses	50	100%	25-Jun-18 A	05-Sep-18 A			25-Jun-18	05-Sep-18	0	0	\$0.00	
S107200		Procure TPC v1 End Cap - Vendor Selection	34	100%	19-Jul-18 A	06-Sep-18 A			19-Jul-18	06-Sep-18	0	0	\$0.00	
S107300		Procure TPC v1 End Cap - Contract Award(s) Phase 1	0	100%	11-Sep-18 A				11-Sep-18		0	0	\$0.00	A-OPC
S107400		Procure TPC v1 End Cap - Contract Award(s) Phase 2	0	100%	11-Sep-18 A				11-Sep-18		0	0	\$0.00	A-OPC
S107500		Procure TPC v1 End Cap - Contract/PO - Leadtime	102	100%	01-Oct-18 A	04-Mar-19 A			01-Oct-18	04-Mar-19	0	0	\$0.00	
S107600	003	Procure TPC v1 End Cap - Delivery Acceptance Phase 1	4	100%	19-Feb-19 A	25-Feb-19 A			19-Feb-19	25-Feb-19	0	0	\$0.00	A-OPC
S107700	003	Procure TPC v1 End Cap - Delivery Acceptance Phase 2	9	100%	13-Feb-19 A	27-Feb-19 A			13-Feb-19	27-Feb-19	0	0	\$0.00	A-OPC
S107800		Procure TPC v1 Central Membrane Parts M&S FY18	266	100%	22-Sep-17 A	17-Oct-18 A			22-Sep-17	17-Oct-18	0	0	\$0.00	
S107900	003,004	Procure TPC v1 Central Membrane Parts M&S FY19	153	100%	18-Oct-18 A	31-May-19 A			18-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S107905	003,004	Procure TPC v1 Central Membrane Parts M&S FY19 Split	41	100%	03-Sep-19 A	31-Oct-19 A			03-Jun-19	02-Aug-19	2400	0	\$2,647.84	A-OPC
S108000		Produce TPC v1 Central Membrane Conceptual Design	162	100%	01-Feb-17 A	21-Sep-17 A			01-Feb-17	21-Sep-17	0	0	\$0.00	
S108100		Procure TPC v1 Central Membrane Parts Labor FY18	254	100%	22-Sep-17 A	28-Sep-18 A			22-Sep-17	28-Sep-18	0	0	\$0.00	
S108200		Procure TPC v1 Central Membrane Parts Labor FY19	270	100%	01-Oct-18 A	30-Oct-19 A			01-Oct-18	02-Aug-19	0	256	\$0.00	T
S108300		Design TPC Assembly Fixture	417	100%	01-Feb-17 A	28-Sep-18 A			01-Feb-17	28-Sep-18	0	0	\$0.00	
S108400		Procure TPC Assembly Fixture Labor	40	100%	01-Oct-18 A	30-Nov-18 A			01-Oct-18	30-Nov-18	0	0	\$0.00	B
S108500	003	Procure TPC Assembly Fixture M&S	40	100%	01-Oct-18 A	30-Nov-18 A			01-Oct-18	30-Nov-18	0	0	\$0.00	A-OPC
S108600		Design TPC Handling Cart	21	100%	01-Apr-20 A	30-Apr-20 A			28-Sep-20	24-Dec-20	0	240	\$17,671.80	B_T
S108700		Procure TPC Handling Cart Labor	21	100%	01-Apr-20 A	30-Apr-20 A			28-Dec-20	24-Feb-21	0	32	\$3,736.82	B
S108800	003	Procure TPC Handling Cart M&S	291	100%	01-Apr-20 A	28-May-21 A			28-Dec-20	24-Feb-21	13000	0	\$15,022.33	A-TEC
S108900		Assemble TPC v1 Central Membrane	53	100%	14-Aug-19 A	30-Oct-19 A			05-Aug-19	16-Aug-19	0	240	\$0.00	T
S109000		Assemble TPC v1 Field Cage Prototype	15	100%	02-Dec-19 A	23-Dec-19 A			19-Aug-19	09-Sep-19	0	360	\$0.00	T
S109100		Benchtest TPC v1 Field Cage Prototype	39	100%	02-Jan-20 A	28-Feb-20 A			10-Sep-19	07-Oct-19	0	120	\$0.00	T
S109200	004	Preliminary Design Review - TPC Field Cage	3	100%	27-Jan-20 A	30-Jan-20 A			08-Oct-19	10-Oct-19	0	8	\$1,277.48	B
POM02.01.02.01.02 TPC v2 Field Cage			821		21-May-19 A	31-Aug-22 A			21-May-19	07-Jul-20	274430	2288	\$306,602.14	
OBLG1101		Procure TPC v2 Outer Field Cage Parts - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			28-Jan-20	28-Jan-20	86286	0	\$86,285.51	A-OPC
OBLG1110		Procure TPC v2 Inner Field Cage Parts - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			28-Feb-20	28-Feb-20	39326	0	\$39,325.58	A-OPC
S109300		Produce TPC v2 Field Cage Prototype Conceptual Design	7	100%	21-May-19 A	31-May-19 A			21-May-19	31-May-19	0	0	\$0.00	B_T
S109305		Produce TPC v2 Field Cage Prototype Conceptual Design Split	18	100%	02-Jan-20 A	29-Jan-20 A			10-Sep-19	12-Dec-19	0	10	\$1,045.55	B_T
S109400	003	Procure TPC v2 Mandrel Parts M&S	21	100%	01-Apr-20 A	30-Apr-20 A			16-Dec-19	12-Feb-20	10433	0	\$11,871.98	A-OPC
S109500		Assemble TPC v2 Mandrel	21	100%	01-Apr-20 A	30-Apr-20 A			13-Feb-20	05-Mar-20	0	180	\$0.00	T
S109600		Produce TPC v2 Outer Field Cage Conceptual Design	7	100%	21-May-19 A	31-May-19 A			21-May-19	31-May-19	0	0	\$0.00	B_T
S109605		Produce TPC v2 Outer Field Cage Conceptual Design Split	17	100%	02-Jan-20 A	28-Jan-20 A			10-Sep-19	08-Nov-19	0	5	\$522.77	B_T
S109700		Procure TPC v2 Outer Field Cage Parts - Provide Requirements to Procurement	11	100%	10-Jan-20 A	28-Jan-20 A			12-Nov-19	18-Nov-19	0	0	\$0.00	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S109800		Procure TPC v2 Outer Field Cage Parts - Prepare & Send Solicitation	11	100%	10-Jan-20 A	28-Jan-20 A			19-Nov-19	11-Dec-19	0	0	\$0.00	
S109900		Procure TPC v2 Outer Field Cage Parts - Vendor Responses	11	100%	10-Jan-20 A	28-Jan-20 A			12-Dec-19	26-Dec-19	0	0	\$0.00	
S110000		Procure TPC v2 Outer Field Cage Parts - Vendor Selection	11	100%	10-Jan-20 A	28-Jan-20 A			27-Dec-19	27-Jan-20	0	0	\$0.00	
S110100		Procure TPC v2 Outer Field Cage Parts - Contract Award(s)	0	100%	14-May-20 A				28-Jan-20		0	0	\$0.00	A-OPC
S110200		Procure TPC v2 Outer Field Cage Parts - Contract/PO - Leadtime	12	100%	14-Apr-20 A	30-Apr-20 A			28-Jan-20	24-Mar-20	0	0	\$0.00	
S110300	003	Procure TPC v2 Outer Field Cage Parts - Delivery Acceptance	76	100%	13-Jan-20 A	30-Apr-20 A			25-Mar-20	31-Mar-20	75827	0	\$86,285.50	A-OPC
S110400		Assemble TPC v2 Outer Field Cage	520	100%	01-Jun-20 A	29-Jun-22 A			01-Apr-20	28-Apr-20	0	720	\$0.00	T
S110500		Produce TPC v2 Inner Field Cage Conceptual Design	7	100%	21-May-19 A	31-May-19 A			21-May-19	31-May-19	0	0	\$0.00	B_T
S110505		Produce TPC v2 Inner Field Cage Conceptual Design Split	57	100%	01-Nov-19 A	29-Jan-20 A			10-Sep-19	13-Dec-19	0	6	\$522.77	B_T
S110600		Procure TPC v2 Inner Field Cage Parts - Provide Requirements to Procureme	9	100%	14-Jan-20 A	28-Jan-20 A			16-Dec-19	20-Dec-19	0	0	\$0.00	
S110700		Procure TPC v2 Inner Field Cage Parts - Prepare & Send Solicitation	9	100%	14-Jan-20 A	28-Jan-20 A			23-Dec-19	14-Jan-20	0	0	\$0.00	
S110800		Procure TPC v2 Inner Field Cage Parts - Vendor Responses	9	100%	14-Jan-20 A	28-Jan-20 A			15-Jan-20	29-Jan-20	0	0	\$0.00	
S110900		Procure TPC v2 Inner Field Cage Parts - Vendor Selection	9	100%	14-Jan-20 A	28-Jan-20 A			30-Jan-20	27-Feb-20	0	0	\$0.00	
S111000		Procure TPC v2 Inner Field Cage Parts - Contract Award(s)	0	100%	14-Jan-20 A				28-Feb-20		0	0	\$0.00	A-OPC
S111100		Procure TPC v2 Inner Field Cage Parts - Contract/PO - Leadtime	9	100%	14-Jan-20 A	28-Jan-20 A			28-Feb-20	23-Apr-20	0	0	\$0.00	
S111200	003	Procure TPC v2 Inner Field Cage Parts - Delivery Acceptance	9	100%	14-Jan-20 A	28-Jan-20 A			24-Apr-20	30-Apr-20	34559	0	\$39,325.58	A-OPC
S111300		Assemble TPC v2 Inner Field Cage	9	100%	14-Jan-20 A	28-Jan-20 A			01-May-20	14-May-20	0	240	\$0.00	T
S111400		Design TPC Field Cage Prototype v2 End Rings	17	100%	03-Jan-20 A	29-Jan-20 A			13-Dec-19	13-Jan-20	0	48	\$4,182.19	B_T
S111500	003	Procure TPC Field Cage Prototype v2 End Rings	21	100%	01-Apr-20 A	30-Apr-20 A			14-Jan-20	11-Mar-20	20000	0	\$22,758.52	A-OPC
S111600		Produce TPC v2 Central Membrane Conceptual Design	7	100%	21-May-19 A	31-May-19 A			21-May-19	31-May-19	0	0	\$0.00	B_T
S111605		Produce TPC v2 Central Membrane Conceptual Design Split	60	100%	01-Oct-19 A	31-Dec-19 A			10-Sep-19	13-Dec-19	0	15	\$1,306.94	B_T
S111700		Procure TPC v2 Central Membrane Parts Labor	96	100%	08-Oct-19 A	28-Feb-20 A			16-Dec-19	12-Feb-20	0	320	\$0.00	T
S111800	003	Procure TPC v2 Central Membrane Parts M&S	94	100%	10-Oct-19 A	28-Feb-20 A			16-Dec-19	12-Feb-20	8000	0	\$9,103.41	A-OPC
S111900		Assemble TPC v2 Central Membrane	541	100%	01-Jun-20 A	29-Jul-22 A			13-Feb-20	27-Feb-20	0	240	\$0.00	T
S112000		Assemble TPC v2 Field Cage Prototype	305	100%	11-May-21 A	29-Jul-22 A			15-May-20	12-Jun-20	0	480	\$0.00	T
S112100		Benchtest TPC v2 Field Cage	22	100%	01-Aug-22 A	31-Aug-22 A			15-Jun-20	19-Jun-20	0	8	\$1,355.28	B
S112200		TPC Field Cage Safety Review	19	100%	02-May-22 A	27-May-22 A			29-Jun-20	01-Jul-20	0	8	\$1,355.28	B
S112300	004	Final Design Review - TPC Field Cage	19	100%	02-May-22 A	27-May-22 A			02-Jul-20	07-Jul-20	0	8	\$1,355.28	B
POM02.01.02.01.03 TPC Final Field Cage			104		01-Dec-20 A	30-Apr-21 A			08-Jul-20	30-Apr-21	86000	416	\$110,519.59	
S112400		Design TPC v2 Field Cage Modifications	15	100%	08-Mar-21 A	29-Mar-21 A			08-Jul-20	14-Jul-20	0	48	\$4,307.66	B_T
S112500		TPC Field Cage Safety Review	1	100%	30-Mar-21 A	31-Mar-21 A			15-Jul-20	15-Jul-20	0	8	\$1,315.81	B
S112600	004	Procurement Readiness Review - TPC Field Cage	1	100%	30-Mar-21 A	31-Mar-21 A			15-Jul-20	15-Jul-20	0	8	\$1,315.81	B
S112700		Procure TPC v2 Field Cage Modification Parts Labor	1	100%	30-Mar-21 A	31-Mar-21 A			16-Jul-20	10-Sep-20	0	32	\$3,761.47	B
S112800	003	Procure TPC v2 Field Cage Modification Parts M&S	1	100%	30-Mar-21 A	31-Mar-21 A			16-Jul-20	10-Sep-20	6000	0	\$6,964.11	A-TEC
S112900		Modify TPC v2 Field Cage	1	100%	30-Mar-21 A	31-Mar-21 A			11-Sep-20	24-Sep-20	0	160	\$0.00	T
S113000		Benchtest TPC Final Field Cage	1	100%	30-Mar-21 A	31-Mar-21 A			25-Sep-20	08-Oct-20	0	160	\$0.00	T
S113050	017	TPC Module technical Support	104	100%	01-Dec-20 A	30-Apr-21 A			01-Dec-20	30-Apr-21	80000	0	\$92,854.74	A-TEC
POM02.01.02.01.04 TPC v1 Modules			663		07-Apr-17 A	02-Dec-19 A			07-Apr-17	05-Jul-19	0	328	\$1,277.48	
POM02.01.02.01.04.01 TPC v1 Module Gas Enclosure			114		07-Apr-17 A	19-Sep-17 A			07-Apr-17	19-Sep-17	0	0	\$0.00	
S113100		Design TPC v1 Module Gas Enclosure	9	100%	05-Sep-17 A	18-Sep-17 A			05-Sep-17	18-Sep-17	0	0	\$0.00	
S113200		Procure TPC v1 Module Gas Enclosure Parts Labor	0	100%	19-Sep-17 A	19-Sep-17 A			19-Sep-17	19-Sep-17	0	0	\$0.00	
S113300		Procure TPC v1 Module Gas Enclosure Parts M&S	0	100%	19-Sep-17 A	19-Sep-17 A			19-Sep-17	19-Sep-17	0	0	\$0.00	
S113400		Assemble TPC v1 Module Gas Enclosure	9	100%	07-Apr-17 A	20-Apr-17 A			07-Apr-17	20-Apr-17	0	0	\$0.00	
S113500		Test TPC v1 Module Gas Enclosure	4	100%	21-Apr-17 A	27-Apr-17 A			21-Apr-17	27-Apr-17	0	0	\$0.00	
POM02.01.02.01.04.02 TPC v1 Module Common Mechanics			164		05-Sep-17 A	03-May-18 A			05-Sep-17	03-May-18	0	0	\$0.00	
S113600		Design TPC v1 Module Strongback	9	100%	05-Sep-17 A	18-Sep-17 A			05-Sep-17	18-Sep-17	0	0	\$0.00	

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S113700		Procure TPC v1 Module Strongback - Labor	19	100%	23-Mar-18 A	19-Apr-18 A			23-Mar-18	19-Apr-18	0	0	\$0.00	
S113800		Procure TPC v1 Module Strongback - M&S	19	100%	23-Mar-18 A	19-Apr-18 A			23-Mar-18	19-Apr-18	0	0	\$0.00	
S113900		Design TPC v1 Module Frames	61	100%	19-Sep-17 A	19-Dec-17 A			19-Sep-17	19-Dec-17	0	0	\$0.00	
S114000		Procure TPC v1 Module Frames Labor	29	100%	23-Mar-18 A	03-May-18 A			23-Mar-18	03-May-18	0	0	\$0.00	
S114100		Procure TPC v1 Module Frames M&S	29	100%	23-Mar-18 A	03-May-18 A			23-Mar-18	03-May-18	0	0	\$0.00	
S114200		Design TPC v1 Module Grid	61	100%	19-Sep-17 A	19-Dec-17 A			19-Sep-17	19-Dec-17	0	0	\$0.00	
S114300		Procure TPC v1 Grid Parts Labor	19	100%	23-Mar-18 A	19-Apr-18 A			23-Mar-18	19-Apr-18	0	0	\$0.00	
S114400		Procure TPC v1 Grid Parts M&S	19	100%	23-Mar-18 A	19-Apr-18 A			23-Mar-18	19-Apr-18	0	0	\$0.00	
S114500		Assemble TPC v1 Grid	9	100%	20-Apr-18 A	03-May-18 A			20-Apr-18	03-May-18	0	0	\$0.00	
S114600	004	Preliminary Design Review - TPC Module	0	100%	23-Mar-18 A	23-Mar-18 A			23-Mar-18	23-Mar-18	0	0	\$0.00	
POM02.01.02.01.04.03 TPC v1a Module Prototype			72		26-Mar-18 A	06-Jul-18 A			26-Mar-18	06-Jul-18	0	0	\$0.00	
S114700		Design TPC v1a Module Padplane	9	100%	26-Mar-18 A	06-Apr-18 A			26-Mar-18	06-Apr-18	0	0	\$0.00	
S114800		Procure TPC v1a Module Padplane Labor	19	100%	09-Apr-18 A	04-May-18 A			09-Apr-18	04-May-18	0	0	\$0.00	
S114900		Procure TPC v1a Module Padplane M&S	19	100%	09-Apr-18 A	04-May-18 A			09-Apr-18	04-May-18	0	0	\$0.00	
S115000		Design TPC v1a Module GEMS	4	100%	09-Apr-18 A	13-Apr-18 A			09-Apr-18	13-Apr-18	0	0	\$0.00	
S115100		Procure TPC v1a Module GEMS Labor	19	100%	16-Apr-18 A	11-May-18 A			16-Apr-18	11-May-18	0	0	\$0.00	
S115200		Procure TPC v1a Module GEMS M&S	19	100%	16-Apr-18 A	11-May-18 A			16-Apr-18	11-May-18	0	0	\$0.00	
S115300		Test TPC v1a Module GEMS	4	100%	14-May-18 A	18-May-18 A			14-May-18	18-May-18	0	0	\$0.00	
S115400		Frame TPC v1a Module GEMS	4	100%	14-May-18 A	18-May-18 A			14-May-18	18-May-18	0	0	\$0.00	
S115500		Test TPC v1a Module Framed GEMS	4	100%	29-May-18 A	04-Jun-18 A			29-May-18	04-Jun-18	0	0	\$0.00	
S115600		Assemble TPC v1a Module Prototype	4	100%	05-Jun-18 A	11-Jun-18 A			05-Jun-18	11-Jun-18	0	0	\$0.00	
S115700		Test TPC v1a Module Prototype	17	100%	12-Jun-18 A	06-Jul-18 A			12-Jun-18	06-Jul-18	0	0	\$0.00	
POM02.01.02.01.04.04 TPC v1b Module Prototype			350		09-Jul-18 A	02-Dec-19 A			09-Jul-18	05-Jul-19	0	328	\$1,277.48	
S115800		Design TPC v1b Module Padplane	58	100%	09-Jul-18 A	28-Sep-18 A			09-Jul-18	28-Sep-18	0	0	\$0.00	
S115900		Procure TPC v1b Module Padplane Labor	19	100%	01-Oct-18 A	29-Oct-18 A			01-Oct-18	29-Oct-18	0	0	\$0.00	B
S116000	003	Procure TPC v1b Module Padplane M&S	19	100%	01-Oct-18 A	29-Oct-18 A			01-Oct-18	29-Oct-18	0	0	\$0.00	A-OPC
S116100		Design TPC v1b Module GEMS	40	100%	23-Jul-18 A	18-Sep-18 A			23-Jul-18	18-Sep-18	0	0	\$0.00	
S116200		Procure TPC v1b Module GEMS Labor	40	100%	01-Oct-18 A	30-Nov-18 A			01-Oct-18	30-Nov-18	0	0	\$0.00	B
S116300	003	Procure TPC v1b Module GEMS M&S	40	100%	01-Oct-18 A	30-Nov-18 A			01-Oct-18	30-Nov-18	0	0	\$0.00	A-OPC
S116400		Test TPC v1b Module GEMS	19	100%	30-Nov-18 A	28-Dec-18 A			30-Nov-18	28-Dec-18	0	0	\$0.00	T
S116500		Frame TPC v1b Module GEMS	112	100%	07-Dec-18 A	20-May-19 A			07-Dec-18	20-May-19	0	0	\$0.00	B_T
S116600		Test TPC v1b Module Framed GEMS	36	100%	10-Apr-19 A	31-May-19 A			10-Apr-19	31-May-19	0	0	\$0.00	B_T
S116700		Assemble TPC v1b Module Prototype	31	100%	17-Apr-19 A	31-May-19 A			17-Apr-19	31-May-19	0	0	\$0.00	T
S116800	004	Test TPC v1b Module Prototype and Final Design Review	73	100%	24-Apr-19 A	06-Aug-19 A			24-Apr-19	05-Jul-19	0	320	\$0.00	T
S116801	004	Final Design Review - TPC Module	1	100%	02-Dec-19 A	02-Dec-19 A			05-Jul-19	05-Jul-19	0	8	\$1,277.48	B
POM02.01.02.01.05 TPC v2 Modules			314		03-Jul-19 A	01-Oct-20 A			16-Dec-19	08-May-20	12900	1776	\$81,948.95	
POM02.01.02.01.05.02 TPC v2 Module Common Mechanics			72		14-Jan-20 A	24-Apr-20 A			16-Dec-19	12-Feb-20	2700	432	\$35,469.38	
S116900		Design TPC v2 Module Strongback	19	100%	31-Jan-20 A	28-Feb-20 A			16-Dec-19	30-Dec-19	0	240	\$11,781.20	B_T
S117000		Procure TPC v2 Module Strongback Labor	14	100%	05-Feb-20 A	26-Feb-20 A			31-Dec-19	29-Jan-20	0	16	\$1,825.95	B
S117100	003	Procure TPC v2 Module Strongback M&S	30	100%	18-Feb-20 A	31-Mar-20 A			31-Dec-19	29-Jan-20	1200	0	\$1,365.51	A-OPC
S117200		Design TPC v2 Module Frames	19	100%	31-Jan-20 A	28-Feb-20 A			16-Dec-19	30-Dec-19	0	24	\$2,091.10	B_T
S117300		Procure TPC v2 Module Frames Labor	12	100%	11-Feb-20 A	28-Feb-20 A			31-Dec-19	12-Feb-20	0	24	\$2,738.93	B
S117400	003	Procure TPC v2 Module Frames M&S	58	100%	04-Feb-20 A	24-Apr-20 A			31-Dec-19	12-Feb-20	1000	0	\$1,137.93	A-OPC
S117500		Design TPC v2 Module Grid	10	100%	15-Jan-20 A	30-Jan-20 A			16-Dec-19	30-Dec-19	0	24	\$2,091.10	B_T
S117600		Procure TPC v2 Module Grid Parts Labor	9	100%	14-Jan-20 A	28-Jan-20 A			31-Dec-19	29-Jan-20	0	24	\$2,738.93	B
S117700	003	Procure TPC v2 Module Grid Parts M&S	9	100%	14-Jan-20 A	28-Jan-20 A			31-Dec-19	29-Jan-20	500	0	\$568.96	A-OPC

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S117800		Assemble TPC v2 Module Grid	9	100%	14-Jan-20 A	28-Jan-20 A			30-Jan-20	12-Feb-20	0	80	\$9,129.77	B
POM02.01.02.01.05.03 TPC v2a Module Prototype			314		03-Jul-19 A	01-Oct-20 A			16-Dec-19	08-May-20	10200	1344	\$46,479.57	
S117900		Design TPC v2a Module Padplane	38	100%	31-Jan-20 A	25-Mar-20 A			16-Dec-19	30-Dec-19	0	320	\$11,781.20	B_T
S118000		Procure TPC v2a Module Padplane Labor	3	100%	26-Mar-20 A	31-Mar-20 A			31-Dec-19	29-Jan-20	0	16	\$1,825.95	B
S118100	003	Procure TPC v2a Module Padplane M&S	3	100%	26-Mar-20 A	31-Mar-20 A			31-Dec-19	29-Jan-20	3700	0	\$4,210.33	A-OPC
S118200		Design TPC v2a Module GEMs	9	100%	14-Feb-20 A	28-Feb-20 A			31-Dec-19	07-Jan-20	0	360	\$5,890.60	B_T
S118300		Procure TPC v2a Module GEMs Labor	3	100%	26-Mar-20 A	31-Mar-20 A			08-Jan-20	05-Mar-20	0	32	\$3,651.91	B
S118400	003	Procure TPC v2a Module GEMs M&S	3	100%	26-Mar-20 A	31-Mar-20 A			08-Jan-20	05-Mar-20	6500	0	\$7,396.52	A-OPC
S118500		Test TPC v2a Module GEMS	5	100%	01-Apr-20 A	07-Apr-20 A			06-Mar-20	12-Mar-20	0	80	\$4,564.89	B_T
S118600		Frame TPC v2a Module GEMs	5	100%	08-Apr-20 A	14-Apr-20 A			13-Mar-20	19-Mar-20	0	40	\$4,564.89	B
S118700		Test TPC v2a Module Framed GEMs	5	100%	15-Apr-20 A	21-Apr-20 A			20-Mar-20	26-Mar-20	0	80	\$0.00	T
S118800		Assemble TPC v2a Module Prototype	16	100%	02-Apr-20 A	24-Apr-20 A			27-Mar-20	02-Apr-20	0	80	\$0.00	T
S118900		Test TPC v2a Module Prototype	18	100%	03-Jul-19 A	30-Jul-19 A			03-Apr-20	30-Apr-20	0	320	\$0.00	T
S119000		TPC Module Safety Review	1	100%	01-Oct-20 A	01-Oct-20 A			05-May-20	05-May-20	0	8	\$1,315.81	B
S119100	004	Production Readiness Review - TPC Module	1	100%	06-May-20 A	06-May-20 A			08-May-20	08-May-20	0	8	\$1,277.48	B
POM02.01.02.01.06 TPC Production GEM Acquisition			427		01-Aug-19 A	17-Apr-21 A			24-Jul-19	02-Mar-21	372243	20	\$396,822.86	
OBLG1197		Procure Production of TPC GEM foils (includes Technician fees) - Obligation	1	100%	04-Sep-20 A	04-Sep-20 A			12-Aug-20	12-Aug-20	154603	0	\$154,603.00	A-TEC
OBLG1197	003	Procure Train Technician to work in CERN Shop on TPC GEMs - Obligation	1	100%	04-Sep-20 A	04-Sep-20 A			12-Aug-20	12-Aug-20	45360	0	\$45,360.00	A-TEC
S119200	005	(Not needed) Train Technician to work in CERN Shop on TPC GEMs	5	100%	01-Aug-19 A	07-Aug-19 A			24-Jul-19	30-Jul-19	0	0	\$0.00	T
S119300	005	Procure Trained Technician to work in CERN Shop on TPC GEMs - Provide R	16	100%	03-Feb-20 A	26-Feb-20 A			11-May-20	15-May-20	0	20	\$0.00	T
S119400		Procure Trained Technician to work in CERN Shop on TPC GEMs - Prepare &	14	100%	05-Feb-20 A	26-Feb-20 A			18-May-20	29-Jun-20	0	0	\$0.00	
S119500		Procure Trained Technician to work in CERN Shop on TPC GEMs - Vendor R	14	100%	05-Feb-20 A	26-Feb-20 A			30-Jun-20	14-Jul-20	0	0	\$0.00	
S119600		Procure Trained Technician to work in CERN Shop on TPC GEMs - Vendor S	14	100%	05-Feb-20 A	26-Feb-20 A			15-Jul-20	11-Aug-20	0	0	\$0.00	
S119700		Procure Trained Technician to work in CERN Shop on TPC GEMs - Contract A	0	100%	07-May-20 A				12-Aug-20		0	0	\$0.00	A-TEC
S119800		Procure Production of TPC GEM foils (includes Technician fees) - Contract A	0	100%	20-May-20 A				12-Aug-20		0	0	\$0.00	A-TEC
S119900		Procure Trained Technician to work in CERN Shop on TPC GEMs - Contract F	5	100%	07-May-20 A	13-May-20 A			12-Aug-20	18-Aug-20	0	0	\$0.00	
S120000	003	Procure Trained Technician to work in CERN Shop on TPC GEMs - Delivery A	5	100%	14-May-20 A	20-May-20 A			19-Aug-20	25-Aug-20	39080	0	\$44,470.14	A-TEC
S120100	003	Procure Production of TPC GEM foils (includes Technician fees) - Delivery A	226	100%	21-May-20 A	17-Apr-21 A			26-Aug-20	02-Mar-21	133200	0	\$152,389.72	A-TEC
S120200		GEM Production Complete	0	100%		17-Apr-21 A				02-Mar-21	0	0	\$0.00	
POM02.01.02.01.07 TPC High Voltage System			207		08-Jan-20 A	30-Oct-20 A			11-May-20	29-Oct-20	256580	208	\$283,003.38	
OBLG1211	003	Procure TPC GEM HV Power Supplies - Obligation	1	100%	04-Sep-20 A	04-Sep-20 A			26-Aug-20	26-Aug-20	125263	0	\$125,263.00	A-TEC
OBLG1212	003	Procure TPC GEM HV Membrane Power Supply - Obligation	1	100%	04-Sep-20 A	04-Sep-20 A			26-Aug-20	26-Aug-20	12245	0	\$12,245.22	A-TEC
S120300		Procure TPC Membrane HV Cables - Labor	12	100%	08-Jan-20 A	27-Jan-20 A			26-May-20	21-Jul-20	0	64	\$3,651.91	B_T
S120400	003	Procure TPC Membrane HV Cables - M&S	8	100%	08-Jan-20 A	20-Jan-20 A			26-May-20	21-Jul-20	600	0	\$682.76	A-TEC
S120500		Select TPC Membrane HV Power Supply	16	100%	08-Apr-20 A	30-Apr-20 A			11-May-20	22-May-20	0	32	\$0.00	T
S120600		Select TPC GEM HV Power Supplies	10	100%	07-May-20 A	20-May-20 A			11-May-20	22-May-20	0	80	\$0.00	T
S120700		Procure TPC GEM HV Power Supplies and Membrane Power Supply - Provid	5	100%	21-May-20 A	28-May-20 A			26-May-20	01-Jun-20	0	32	\$3,651.91	B
S120800		Procure TPC GEM HV Power Supplies and Membrane Power Supply - Prepai	22	100%	29-May-20 A	30-Jun-20 A			02-Jun-20	14-Jul-20	0	0	\$0.00	
S120900		Procure TPC GEM HV Power Supplies and Membrane Power Supply - Vendo	7	100%	15-Jun-20 A	24-Jun-20 A			15-Jul-20	28-Jul-20	0	0	\$0.00	
S121000		Procure TPC GEM HV Power Supplies and Membrane Power Supply - Vendo	7	100%	15-Jun-20 A	24-Jun-20 A			29-Jul-20	25-Aug-20	0	0	\$0.00	
S121100		Procure TPC GEM HV Power Supplies - Contract Award(s)	0	100%	15-Jun-20 A				26-Aug-20		0	0	\$0.00	A-TEC
S121200		Procure TPC GEM HV Membrane Power Supply - Contract Award(s)	0	100%	22-Apr-20 A				26-Aug-20		0	0	\$0.00	A-TEC
S121300		Procure TPC GEM HV Power Supplies and Membrane Power Supply - Contra	103	100%	05-May-20 A	30-Sep-20 A			26-Aug-20	22-Oct-20	0	0	\$0.00	
S121400	003	Procure TPC GEM HV Power Supplies - Delivery Acceptance	28	100%	22-Sep-20 A	30-Oct-20 A			23-Oct-20	29-Oct-20	107922	0	\$125,263.37	A-TEC
S121500	003	Procure TPC GEM HV Membrane Power Supply - Delivery Acceptance	5	100%	06-Oct-20 A	13-Oct-20 A			23-Oct-20	29-Oct-20	10550	0	\$12,245.22	A-TEC
POM02.01.02.01.08 TPC Assembly			449		01-Feb-21 A	14-Nov-22	14-Nov-22	103	03-Jun-19	20-Jan-22	21102	12852	\$201,162.96	

POM02 sPHENIX WBS 1.x, 2.x October 2022				Glenn's Layout				Page 7 of 87 pages				07-Nov-22 15:54		
Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S121600	004	Production Readiness Review for TPC Final Assembly	19	100%	02-May-22 A	27-May-22 A			30-Apr-21	30-Apr-21	0	16	\$0.00	T
S121601	004	Final Design Review and Production Readiness Review - TPC Final Assembly	0	100%		27-May-22 A				30-Apr-21	0	0	\$0.00	T
S121605	020	TPC Assembly Mechanical Engineering Support	249	100%	01-Feb-21 A	31-Jan-22 A			01-Feb-21	20-Jan-22	0	1500	\$156,597.44	A-TEC
S121610	005	Install TPC Modules into Field Cage	44	100%	29-Jul-22 A	30-Sep-22 A			03-Jun-19	03-Dec-19	0	7296	\$0.00	T
S121650	003	Procure Piping Fittings	74	100%	17-May-21 A	31-Aug-21 A			03-May-21	14-May-21	1102	0	\$1,279.07	A-TEC
S121700		Install TPC Electronics by sectors	35	25%	23-Sep-22 A	14-Nov-22	14-Nov-22	0	17-May-21	28-May-21	0	608	\$19,952.70	B_T
S121800		Test TPC by sectors Prior to Installation	20	100%	27-May-22 A	27-Jun-22 A			16-Jul-21	18-Oct-21	0	3432	\$0.00	T
S121900		TPC Ready to Install (Assembly Complete)	0	0%		14-Nov-22		0		20-Jan-22	0	0	\$0.00	
S121950	017	TPC Assembly technical Support	165	100%	01-Jun-21 A	31-Jan-22 A			03-May-21	15-Oct-21	20000	0	\$23,333.76	A-TEC
POM02.01.02.02 TPC R1 Modules			1031		09-Jun-17 A	26-Jul-21 A			09-Jun-17	15-Apr-21	411431	7707	\$594,735.88	
POM02.01.02.02.01 TPC R1 Module Factory Preparation			207		01-Oct-18 A	31-Jul-19 A			01-Oct-18	10-Jul-19	2400	51	\$2,942.90	
S122000	003	Prepare TPC R1 Factory Clean Facility Labor	25	100%	01-Oct-18 A	06-Nov-18 A			01-Oct-18	06-Nov-18	0	0	\$0.00	A-OPC
S122005	003	Prepare TPC R1 Factory Clean Facility Labor - Contributed Labor	25	100%	01-Oct-18 A	06-Nov-18 A			01-Oct-18	06-Nov-18	0	0	\$0.00	T
S122100	003	Prepare TPC R1 Factory Clean Facility M&S	25	100%	01-Oct-18 A	06-Nov-18 A			01-Oct-18	06-Nov-18	0	0	\$0.00	A-OPC
S122200	003	Prepare TPC R1 Factory Tooling Labor	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S122202	003	Prepare TPC R1 Factory Tooling Labor Split	21	100%	01-Jul-19 A	31-Jul-19 A			03-Jun-19	10-Jul-19	0	3	\$295.07	A-OPC
S122205	003	Prepare TPC R1 Factory Tooling Labor - Contributed Labor	207	100%	01-Oct-18 A	31-Jul-19 A			01-Oct-18	10-Jul-19	0	48	\$0.00	T
S122300	003	Prepare TPC R1 Factory Tooling M&S	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S122302	003	Prepare TPC R1 Factory Tooling M&S Split	21	100%	01-Jul-19 A	31-Jul-19 A			03-Jun-19	10-Jul-19	2400	0	\$2,647.84	A-OPC
POM02.01.02.02.02 TPC R1 Pre-Production Module			282		30-Oct-18 A	17-Dec-19 A			30-Oct-18	18-Nov-19	95000	168	\$115,808.33	
S122400		Design TPC R1 Pre-Production Module (strongback, frame, grid, pad, GEMs)	20	100%	30-Oct-18 A	30-Nov-18 A			30-Oct-18	30-Nov-18	0	0	\$0.00	B_T
S122500		Procure TPC R1 Pre-Production Module Strongbacks - Labor	100	100%	07-Jan-19 A	30-May-19 A			07-Jan-19	30-May-19	0	0	\$0.00	B
S122600	003	Procure TPC R1 Pre-Production Module Strongbacks - M&S	100	100%	07-Jan-19 A	30-May-19 A			07-Jan-19	30-May-19	0	0	\$0.00	A-OPC
S122700		Procure TPC R1 Pre-Production Module Frames - Labor	51	100%	15-Feb-19 A	30-Apr-19 A			15-Feb-19	30-Apr-19	0	0	\$0.00	B
S122800	003	Procure TPC R1 Pre-Production Module Frames - M&S	51	100%	15-Feb-19 A	30-Apr-19 A			15-Feb-19	30-Apr-19	0	0	\$0.00	A-OPC
S122900		Procure TPC R1 Pre-Production Module Grids - Labor	19	100%	30-Nov-18 A	28-Dec-18 A			30-Nov-18	28-Dec-18	0	0	\$0.00	B
S123000	003	Procure TPC R1 Pre-Production Module Grids - M&S	19	100%	30-Nov-18 A	28-Dec-18 A			30-Nov-18	28-Dec-18	0	0	\$0.00	A-OPC
S123100		Procure TPC R1 Pre-Production Module Pad Planes - Labor	80	100%	07-Jan-19 A	30-Apr-19 A			07-Jan-19	30-Apr-19	0	0	\$0.00	B
S123200	003	Procure TPC R1 Pre-Production Module Pad Planes - M&S	80	100%	07-Jan-19 A	30-Apr-19 A			07-Jan-19	30-Apr-19	0	0	\$0.00	A-OPC
S123300		Procure TPC R1 Pre-Production Module GEMs - Labor	73	100%	15-Feb-19 A	31-May-19 A			15-Feb-19	31-May-19	0	0	\$0.00	B
S123400	003	Procure TPC R1 Pre-Production Module GEMs - M&S	73	100%	15-Feb-19 A	31-May-19 A			15-Feb-19	31-May-19	0	0	\$0.00	A-OPC
S123500	003	Assemble TPC R1 Pre-Production Module in TPC R1 Factory	21	100%	01-May-19 A	31-May-19 A			01-May-19	31-May-19	0	0	\$0.00	A-OPC
S123505	003	Assemble TPC R1 Pre-Production Module in TPC R1 Factory - Contributed Labor	21	100%	01-May-19 A	31-May-19 A			01-May-19	31-May-19	0	0	\$0.00	T
S123600	003	Test TPC R1 Pre-Production Module	6	100%	01-Jul-19 A	09-Jul-19 A			11-Jul-19	24-Jul-19	0	80	\$7,868.49	A-OPC
S123605	003	Test TPC R1 Pre-Production Module - Contributed Labor	5	100%	01-Jul-19 A	08-Jul-19 A			11-Jul-19	24-Jul-19	0	80	\$0.00	T
S123700	003	Common production line & QA certification	69	100%	25-Jul-19 A	31-Oct-19 A			25-Jul-19	18-Nov-19	95000	0	\$106,662.36	A-OPC
S123800	004	Production Readiness Review - TPC Module Factories	1	100%	17-Dec-19 A	17-Dec-19 A			31-Oct-19	31-Oct-19	0	8	\$1,277.48	B
POM02.01.02.02.03 TPC R1 Module Production			452		02-Oct-19 A	26-Jul-21 A			01-Nov-19	15-Apr-21	163878	7488	\$325,832.52	
OBLG1243	003	Procure TPC R1 Module Parts (Frames) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	16615	0	\$16,614.86	A-TEC
OBLG1246	003	Procure TPC R1 Module Parts (Strongbacks) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	9349	0	\$9,349.20	A-TEC
OBLG1249	003	Procure TPC R1 Module Parts (Padplanes) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	50113	0	\$50,113.12	A-TEC
OBLG1252	003	Procure TPC R1 Module Parts (Grids) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	11148	0	\$11,148.26	A-TEC
S123900		Procure TPC R1 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids)	5	100%	02-Oct-19 A	08-Oct-19 A			01-Nov-19	07-Nov-19	0	192	\$24,032.59	B
S124000		Procure TPC R1 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids)	54	100%	09-Oct-19 A	31-Dec-19 A			08-Nov-19	24-Dec-19	0	0	\$0.00	
S124100		Procure TPC R1 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids)	38	100%	01-Nov-19 A	31-Dec-19 A			26-Dec-19	09-Jan-20	0	0	\$0.00	
S124200		Procure TPC R1 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids)	58	100%	06-Nov-19 A	03-Feb-20 A			10-Jan-20	07-Feb-20	0	0	\$0.00	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S124300		Procure TPC R1 Module Parts (Frames) - Contract Award(s)	0	100%	04-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S124400		Procure TPC R1 Module Parts (Frames) - Contract/PO - Leadtime	39	100%	04-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S124500	003	Procure TPC R1 Module Parts (Frames) - Delivery Acceptance	51	100%	17-Mar-20 A	27-May-20 A			07-Apr-20	13-Apr-20	14601	0	\$16,614.85	A-TEC
S124600		Procure TPC R1 Module Parts (Strongbacks) - Contract Award(s)	0	100%	04-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S124700		Procure TPC R1 Module Parts (Strongbacks) - Contract/PO - Leadtime	40	100%	04-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S124800	003	Procure TPC R1 Module Parts (Strongbacks) - Delivery Acceptance	4	100%	25-Mar-20 A	31-Mar-20 A			07-Apr-20	13-Apr-20	8216	0	\$9,349.20	A-TEC
S124900		Procure TPC R1 Module Parts (Padplanes) - Contract Award(s)	0	100%	29-Jan-21 A				10-Feb-20		0	0	\$0.00	A-TEC
S125000		Procure TPC R1 Module Parts (Padplanes) - Contract/PO - Leadtime	60	100%	04-Jan-21 A	31-Mar-21 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S125100	003	Procure TPC R1 Module Parts (Padplanes) - Delivery Acceptance	5	100%	22-Mar-21 A	29-Mar-21 A			07-Apr-20	13-Apr-20	44039	0	\$51,115.38	A-TEC
S125200		Procure TPC R1 Module Parts (Grids) - Contract Award(s)	0	100%	04-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S125300		Procure TPC R1 Module Parts (Grids) - Contract/PO - Leadtime	40	100%	04-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S125400	003	Procure TPC R1 Module Parts (Grids) - Delivery Acceptance	5	100%	24-Mar-20 A	31-Mar-20 A			07-Apr-20	13-Apr-20	9797	0	\$11,148.26	A-TEC
S125500	003	Build TPC R1 Modules	136	100%	11-Jan-21 A	26-Jul-21 A			28-Sep-20	01-Apr-21	0	960	\$63,173.40	A-TEC
S125505	003	Build TPC R1 Modules - Contributed Labor	136	100%	11-Jan-21 A	26-Jul-21 A			28-Sep-20	01-Apr-21	0	2688	\$0.00	T
S125600	003	Test TPC R1 Modules	136	100%	11-Jan-21 A	26-Jul-21 A			13-Oct-20	15-Apr-21	0	960	\$63,173.40	A-TEC
S125605	003	Test TPC R1 Modules - Contributed Labor	136	100%	11-Jan-21 A	26-Jul-21 A			13-Oct-20	15-Apr-21	0	2688	\$0.00	T
S125700		TPC R1 GEM Modules Production Ends	0	100%		26-Jul-21 A				15-Apr-21	0	0	\$0.00	
POM02.01.02.02.04 TPC R1 Module Production Procure Contracted Labor and M&S			680		09-Jun-17 A	02-Mar-20 A			09-Jun-17	01-Oct-19	150152	0	\$150,152.12	
OBLG1260	003,004	TPC R1 Module Production Procure Contracted Labor and M&S SBU, Phase	0	100%	31-Jul-17 A	31-Jul-17 A			31-Jul-17	31-Jul-17	0	0	\$0.00	A-OPC
OBLG1260	003,004	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phas	0	100%	31-Jul-17 A	31-Jul-17 A			31-Jul-17	31-Jul-17	0	0	\$0.00	A-OPC
OBLG1260	003,004	TPC R1 Module Production Procure Contracted Labor and M&S SBU, Phase	1	100%	12-Sep-19 A	12-Sep-19 A			24-Jul-19	24-Jul-19	23878	0	\$23,878.28	A-TEC
OBLG1260	003,004	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phas	1	100%	02-Mar-20 A	02-Mar-20 A			01-Oct-19	01-Oct-19	126274	0	\$126,273.84	A-TEC
S125800	003	TPC R1 Module Production Procure Contracted Labor and M&S SBU - Provid	4	100%	09-Jun-17 A	15-Jun-17 A			09-Jun-17	15-Jun-17	0	0	\$0.00	
S125900	003	TPC R1 Module Production Procure Contracted Labor and M&S Wayne - Ven	29	100%	16-Jun-17 A	28-Jul-17 A			16-Jun-17	28-Jul-17	0	0	\$0.00	
S126000	003,004	TPC R1 Module Production Procure Contracted Labor and M&S SBU, Phase	0	100%	31-Jul-17 A				31-Jul-17		0	0	\$0.00	A-OPC
S126005	003,004	TPC R1 Module Production Procure Contracted Labor and M&S SBU, Phase	0	100%	12-Sep-19 A				24-Jul-19		0	0	\$0.00	A-TEC
S126008	003,004	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phas	0	100%	31-Jul-17 A				31-Jul-17		0	0	\$0.00	A-OPC
S126010	003,004	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phas	0	100%	02-Jan-20 A				01-Oct-19		0	0	\$0.00	A-TEC
POM02.01.02.03 TPC R2 Modules			703		01-Oct-18 A	26-Jul-21 A			01-Oct-18	15-Apr-21	191185	8448	\$227,787.55	
POM02.01.02.03.01 TPC R2 Module Factory Preparation			207		01-Oct-18 A	31-Jul-19 A			01-Oct-18	31-Jul-19	3600	640	\$3,971.75	
S126200		Prepare TPC R2 Factory Clean Facility Labor	40	100%	01-Oct-18 A	30-Nov-18 A			01-Oct-18	30-Nov-18	0	0	\$0.00	T
S126300	003	Prepare TPC R2 Factory Clean Facility M&S	40	100%	01-Oct-18 A	30-Nov-18 A			01-Oct-18	30-Nov-18	0	0	\$0.00	A-OPC
S126400		Prepare TPC R2 Factory Tooling Labor	207	100%	01-Oct-18 A	31-Jul-19 A			01-Oct-18	31-Jul-19	0	640	\$0.00	T
S126500	003	Prepare TPC R2 Factory Tooling M&S	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S126502	003	Prepare TPC R2 Factory Tooling M&S Split	21	100%	01-Jul-19 A	31-Jul-19 A			03-Jun-19	31-Jul-19	3600	0	\$3,971.75	A-OPC
POM02.01.02.03.02 TPC R2 Pre-Production Module			209		30-Oct-18 A	30-Aug-19 A			30-Oct-18	26-Sep-19	2500	1280	\$2,758.16	
S126600		Design TPC R2 Pre-Production Module (strongback, frame, grid, pad, GEMs)	20	100%	30-Oct-18 A	30-Nov-18 A			30-Oct-18	30-Nov-18	0	0	\$0.00	B_T
S126700		Procure TPC R2 Pre-Production Module Strongbacks Labor	82	100%	30-Nov-18 A	29-Mar-19 A			30-Nov-18	29-Mar-19	0	0	\$0.00	B
S126800	003	Procure TPC R2 Pre-Production Module Strongbacks M&S	82	100%	30-Nov-18 A	29-Mar-19 A			30-Nov-18	29-Mar-19	0	0	\$0.00	A-OPC
S126900		Procure TPC R2 Pre-Production Module Frames - Labor	82	100%	30-Nov-18 A	29-Mar-19 A			30-Nov-18	29-Mar-19	0	0	\$0.00	B
S127000	003	Procure TPC R2 Pre-production Module frames - M&S	82	100%	30-Nov-18 A	29-Mar-19 A			30-Nov-18	29-Mar-19	0	0	\$0.00	A-OPC
S127100		Procure TPC R2 Pre-Production Module Grids Labor	19	100%	30-Nov-18 A	28-Dec-18 A			30-Nov-18	28-Dec-18	0	0	\$0.00	B
S127200	003	Procure TPC R2 Pre-Production Module Grids M&S	19	100%	30-Nov-18 A	28-Dec-18 A			30-Nov-18	28-Dec-18	0	0	\$0.00	A-OPC
S127300		Procure TPC R2 Pre-Production Module Pad Planes Labor	82	100%	30-Nov-18 A	01-Apr-19 A			30-Nov-18	01-Apr-19	0	0	\$0.00	B
S127400	003	Procure TPC R2 Pre-Production Module Pad Planes M&S	82	100%	30-Nov-18 A	29-Mar-19 A			30-Nov-18	29-Mar-19	0	0	\$0.00	A-OPC
S127500		Procure TPC R2 Pre-Production Module GEMs Labor	125	100%	30-Nov-18 A	31-May-19 A			30-Nov-18	31-May-19	0	0	\$0.00	B

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S127502		Procure TPC R2 Pre-Production Module GEMs Labor Split	14	100%	01-Aug-19 A	20-Aug-19 A			03-Jun-19	19-Jul-19	0	0	\$0.00	B
S127600	003	Procure TPC R2 Pre-Production Module GEMs M&S	125	100%	30-Nov-18 A	31-May-19 A			30-Nov-18	31-May-19	0	0	\$0.00	A-OPC
S127602	003	Procure TPC R2 Pre-Production Module GEMs M&S Split	14	100%	01-Aug-19 A	20-Aug-19 A			03-Jun-19	19-Jul-19	2500	0	\$2,758.16	A-OPC
S127700		Assemble TPC R2 Pre-Production Module in TPC R2 Factory	7	100%	21-Aug-19 A	30-Aug-19 A			01-Aug-19	12-Sep-19	0	960	\$0.00	T
S127800		Test TPC R2 Pre-Production Module	7	100%	21-Aug-19 A	30-Aug-19 A			13-Sep-19	26-Sep-19	0	320	\$0.00	T
POM02.01.02.03.03 TPC R2 Module Production			452		02-Oct-19 A	26-Jul-21 A			01-Nov-19	15-Apr-21	185085	6528	\$221,057.64	
OBLG1283		Procure TPC R2 Module Prod. Parts (Frames) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	16615	0	\$16,614.86	A-TEC
OBLG1286		Procure TPC R2 Module Prod. Parts (Strongbacks) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	10451	0	\$10,450.71	A-TEC
OBLG1289		Procure TPC R2 Module Prod. Parts (Padplanes) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	60299	0	\$60,298.70	A-TEC
OBLG1292		Procure TPC R2 Module Prod. Parts (Grids) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			10-Feb-20	10-Feb-20	11148	0	\$11,148.26	A-TEC
S127900		Procure TPC R2 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	5	100%	02-Oct-19 A	08-Oct-19 A			01-Nov-19	07-Nov-19	0	192	\$24,032.59	B
S128000		Procure TPC R2 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	54	100%	09-Oct-19 A	31-Dec-19 A			08-Nov-19	24-Dec-19	0	0	\$0.00	
S128100		Procure TPC R2 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	20	100%	02-Dec-19 A	31-Dec-19 A			26-Dec-19	09-Jan-20	0	0	\$0.00	
S128200		Procure TPC R2 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	43	100%	02-Dec-19 A	03-Feb-20 A			10-Jan-20	07-Feb-20	0	0	\$0.00	
S128300		Procure TPC R2 Module Prod. Parts (Frames) - Contract Award(s)	0	100%	04-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S128400		Procure TPC R2 Module Prod. Parts (Frames) - Contract/PO - Leadtime	40	100%	04-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S128500	003	Procure TPC R2 Module Prod. Parts (Frames) - Delivery Acceptance	50	100%	18-Mar-20 A	27-May-20 A			07-Apr-20	13-Apr-20	14601	0	\$16,614.85	A-TEC
S128600		Procure TPC R2 Module Prod. Parts (Strongbacks) - Contract Award(s)	0	100%	04-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S128700		Procure TPC R2 Module Prod. Parts (Strongbacks) - Contract/PO - Leadtime	40	100%	04-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S128800	003	Procure TPC R2 Module Prod. Parts (Strongbacks) - Delivery Acceptance	10	100%	17-Mar-20 A	31-Mar-20 A			07-Apr-20	13-Apr-20	9184	0	\$10,450.71	A-TEC
S128900		Procure TPC R2 Module Prod. Parts (Padplanes) - Contract Award(s)	0	100%	01-Jul-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S129000		Procure TPC R2 Module Prod. Parts (Padplanes) - Contract/PO - Leadtime	42	100%	01-Jul-20 A	31-Aug-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S129100	003	Procure TPC R2 Module Prod. Parts (Padplanes) - Delivery Acceptance	44	100%	27-Aug-20 A	29-Oct-20 A			07-Apr-20	13-Apr-20	52990	0	\$60,298.69	A-TEC
S129200		Procure TPC R2 Module Prod. Parts (Grids) - Contract Award(s)	0	100%	04-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S129300		Procure TPC R2 Module Prod. Parts (Grids) - Contract/PO - Leadtime	40	100%	04-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S129400	003	Procure TPC R2 Module Prod. Parts (Grids) - Delivery Acceptance	5	100%	24-Mar-20 A	31-Mar-20 A			07-Apr-20	13-Apr-20	9797	0	\$11,148.26	A-TEC
S129500		Build TPC R2 Modules	181	100%	02-Nov-20 A	26-Jul-21 A			28-Sep-20	01-Apr-21	0	3648	\$0.00	T
S129600		Test TPC R2 Modules	171	100%	17-Nov-20 A	26-Jul-21 A			13-Oct-20	15-Apr-21	0	2688	\$0.00	T
S129700		TPC R2 GEM Modules Production Ends	0	100%		26-Jul-21 A				15-Apr-21	0	0	\$0.00	
POM02.01.02.04 TPC R3 Modules			703		01-Oct-18 A	26-Jul-21 A			01-Oct-18	15-Apr-21	253600	17392	\$300,055.71	
POM02.01.02.04.01 TPC R3 Module Factory Preparation			229		01-Oct-18 A	30-Aug-19 A			01-Oct-18	03-Sep-19	7200	1280	\$7,943.51	
S129800		Prepare TPC R3a Factory Clean Facility Labor	112	100%	01-Oct-18 A	15-Mar-19 A			01-Oct-18	15-Mar-19	0	0	\$0.00	T
S129900	003	Prepare TPC R3a Factory Clean Facility M&S	112	100%	01-Oct-18 A	15-Mar-19 A			01-Oct-18	15-Mar-19	0	0	\$0.00	A-OPC
S130000		Prepare TPC R3a Factory Tooling Labor	207	100%	01-Oct-18 A	31-Jul-19 A			01-Oct-18	03-Sep-19	0	640	\$0.00	T
S130100	003	Prepare TPC R3a Factory Tooling M&S	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S130102	003	Prepare TPC R3a Factory Tooling M&S Split	43	100%	01-Jul-19 A	30-Aug-19 A			03-Jun-19	03-Sep-19	3600	0	\$3,971.75	A-OPC
S130200		Prepare TPC R3b Factory Clean Facility Labor	112	100%	01-Oct-18 A	15-Mar-19 A			01-Oct-18	15-Mar-19	0	0	\$0.00	T
S130300	003	Prepare TPC R3b Factory Clean Facility M&S	112	100%	01-Oct-18 A	15-Mar-19 A			01-Oct-18	15-Mar-19	0	0	\$0.00	A-OPC
S130400		Prepare TPC R3b Factory Tooling Labor	229	100%	01-Oct-18 A	30-Aug-19 A			01-Oct-18	03-Sep-19	0	640	\$0.00	T
S130500	003	Prepare TPC R3b Factory Tooling M&S	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S130502	003	Prepare TPC R3b Factory Tooling M&S Split	21	100%	01-Aug-19 A	30-Aug-19 A			03-Jun-19	03-Sep-19	3600	0	\$3,971.75	A-OPC
POM02.01.02.04.02 TPC R3 Pre-Production Module			229		30-Oct-18 A	30-Sep-19 A			30-Oct-18	30-Oct-19	12000	1328	\$18,557.49	
S130600		Design TPC R3 Pre-Production Module (strongback, frame, grid, pad, GEMs)	20	100%	30-Oct-18 A	30-Nov-18 A			30-Oct-18	30-Nov-18	0	0	\$0.00	B_T
S130700		Procure TPC R3 Pre-Production Module Strongbacks Labor	21	100%	01-Mar-19 A	29-Mar-19 A			01-Mar-19	29-Mar-19	0	0	\$0.00	B
S130800	003	Procure TPC R3 Pre-Production Module Strongbacks M&S	21	100%	01-Mar-19 A	29-Mar-19 A			01-Mar-19	29-Mar-19	0	0	\$0.00	A-OPC
S130900		Procure TPC R3 Pre-Production Module Frames - Labor	21	100%	01-Aug-19 A	29-Aug-19 A			03-Jun-19	01-Jul-19	0	24	\$2,659.16	B

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S131000	003	Procure TPC R3 Pre-Production Module frames - M&S	21	100%	01-Aug-19 A	29-Aug-19 A			03-Jun-19	01-Jul-19	2000	0	\$2,206.53	A-OPC
S131100		Procure TPC R3 Pre-Production Module Grids Labor	19	100%	30-Nov-18 A	28-Dec-18 A			30-Nov-18	28-Dec-18	0	0	\$0.00	B
S131200	003	Procure TPC R3 Pre-Production Module Grids M&S	19	100%	30-Nov-18 A	28-Dec-18 A			30-Nov-18	28-Dec-18	0	0	\$0.00	A-OPC
S131300		Procure TPC R3 Pre-Production Module Pad Planes Labor	21	100%	01-Mar-19 A	29-Mar-19 A			01-Mar-19	29-Mar-19	0	0	\$0.00	B
S131400	003	Procure TPC R3 Pre-Production Module Pad Planes M&S	21	100%	01-Mar-19 A	29-Mar-19 A			01-Mar-19	29-Mar-19	0	0	\$0.00	A-OPC
S131500		Procure TPC R3 Pre-Production Module GEMs Labor	21	100%	01-Aug-19 A	29-Aug-19 A			03-Jun-19	01-Jul-19	0	24	\$2,659.16	B
S131600	003	Procure TPC R3 Pre-Production Module GEMs M&S	21	100%	01-Aug-19 A	29-Aug-19 A			03-Jun-19	01-Jul-19	10000	0	\$11,032.65	A-OPC
S131700		Assemble TPC R3a Pre-Production Module in TPC R3a Factory	19	100%	03-Sep-19 A	30-Sep-19 A			04-Sep-19	16-Oct-19	0	480	\$0.00	T
S131800		Test TPC R3a Pre-Production Module	19	100%	03-Sep-19 A	30-Sep-19 A			17-Oct-19	30-Oct-19	0	160	\$0.00	T
S131900		Assemble TPC R3b Pre-Production Module in TPC R3b Factory	21	100%	01-Aug-19 A	30-Aug-19 A			04-Sep-19	16-Oct-19	0	480	\$0.00	T
S132000		Test TPC R3b Pre-Production Module	21	100%	01-Aug-19 A	30-Aug-19 A			17-Oct-19	30-Oct-19	0	160	\$0.00	T
POM02.01.02.04.03 TPC R3 Module Production			452		02-Oct-19 A	26-Jul-21 A			01-Nov-19	15-Apr-21	234400	14784	\$273,554.71	
OBLG1325		Procure TPC R3 Module Prod. Parts (Frames) - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			10-Feb-20	10-Feb-20	19139	0	\$19,138.78	A-TEC
OBLG1328		Procure TPC R3 Module Prod. Parts (Strongbacks) - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			10-Feb-20	10-Feb-20	12246	0	\$12,246.36	A-TEC
OBLG1331		Procure TPC R3 Module Prod. Parts (Padplanes) - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			10-Feb-20	10-Feb-20	81669	0	\$81,668.95	A-TEC
OBLG1334		Procure TPC R3 Module Prod. Parts (Grids) - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			10-Feb-20	10-Feb-20	11707	0	\$11,706.98	A-TEC
S132100		Procure TPC R3 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	5	100%	02-Oct-19 A	08-Oct-19 A			01-Nov-19	07-Nov-19	0	192	\$24,032.59	B
S132200		Procure TPC R3 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	54	100%	09-Oct-19 A	31-Dec-19 A			08-Nov-19	24-Dec-19	0	0	\$0.00	
S132300		Procure TPC R3 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	43	100%	02-Dec-19 A	03-Feb-20 A			26-Dec-19	09-Jan-20	0	0	\$0.00	
S132400		Procure TPC R3 Module Prod. Parts (Frames, Strongbacks, Padplanes, Grids	17	100%	04-Feb-20 A	28-Feb-20 A			10-Jan-20	07-Feb-20	0	0	\$0.00	
S132500		Procure TPC R3 Module Prod. Parts (Frames) - Contract Award(s)	0	100%	04-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S132600		Procure TPC R3 Module Prod. Parts (Frames) - Contract/PO - Leadtime	39	100%	05-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S132700	003	Procure TPC R3 Module Prod. Parts (Frames) - Delivery Acceptance	32	100%	18-Mar-20 A	30-Apr-20 A			07-Apr-20	13-Apr-20	16819	0	\$19,138.77	A-TEC
S132800		Procure TPC R3 Module Prod. Parts (Strongbacks) - Contract Award(s)	0	100%	05-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S132900		Procure TPC R3 Module Prod. Parts (Strongbacks) - Contract/PO - Leadtime	39	100%	05-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S133000	003	Procure TPC R3 Module Prod. Parts (Strongbacks) - Delivery Acceptance	10	100%	17-Mar-20 A	31-Mar-20 A			07-Apr-20	13-Apr-20	10762	0	\$12,246.36	A-TEC
S133100		Procure TPC R3 Module Prod. Parts (Padplanes) - Contract Award(s)	0	100%	01-Apr-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S133200		Procure TPC R3 Module Prod. Parts (Padplanes) - Contract/PO - Leadtime	52	100%	01-Apr-20 A	15-Jun-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S133300	003	Procure TPC R3 Module Prod. Parts (Padplanes) - Delivery Acceptance	26	100%	16-Jun-20 A	22-Jul-20 A			07-Apr-20	13-Apr-20	71770	0	\$81,668.93	A-TEC
S133400		Procure TPC R3 Module Prod. Parts (Grids) - Contract Award(s)	0	100%	05-Feb-20 A				10-Feb-20		0	0	\$0.00	A-TEC
S133500		Procure TPC R3 Module Prod. Parts (Grids) - Contract/PO - Leadtime	39	100%	05-Feb-20 A	31-Mar-20 A			10-Feb-20	06-Apr-20	0	0	\$0.00	
S133600	003	Procure TPC R3 Module Prod. Parts (Grids) - Delivery Acceptance	5	100%	24-Mar-20 A	31-Mar-20 A			07-Apr-20	13-Apr-20	10288	0	\$11,706.98	A-TEC
S133700		Build TPC R3a Modules	199	100%	06-Oct-20 A	26-Jul-21 A			28-Sep-20	01-Apr-21	0	3648	\$0.00	T
S133800		Test TPC R3a Modules	189	100%	21-Oct-20 A	26-Jul-21 A			13-Oct-20	15-Apr-21	0	3648	\$0.00	T
S133900		Build TPC R3b Modules	199	100%	06-Oct-20 A	26-Jul-21 A			28-Sep-20	01-Apr-21	0	3648	\$0.00	T
S134000		Test TPC R3b Modules	189	100%	21-Oct-20 A	26-Jul-21 A			13-Oct-20	15-Apr-21	0	3648	\$0.00	T
S134100		TPC R3 GEM Modules Production Ends	0	100%		26-Jul-21 A				15-Apr-21	0	0	\$0.00	
POM02.01.02.05 TPC FEE			1448		01-Feb-17 A	14-Nov-22	14-Nov-22	103	01-Feb-17	30-Sep-22	2431107	6424	\$3,385,653.44	
POM02.01.02.05.01 TPC FEE Prototype v1			579		01-Feb-17 A	24-May-19 A			01-Feb-17	24-May-19	0	0	\$0.00	
S134200		Write TPC FEE prototype v1 design specification	1	100%	01-Feb-17 A	02-Feb-17 A			01-Feb-17	02-Feb-17	0	0	\$0.00	
S134300		Design TPC FEE prototype v1	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	
S134400		Procure TPC FEE prototype v1 components Labor	20	100%	02-Oct-17 A	31-Oct-17 A			02-Oct-17	31-Oct-17	0	0	\$0.00	
S134500		Procure TPC FEE prototype v1 components M&S	20	100%	02-Oct-17 A	31-Oct-17 A			02-Oct-17	31-Oct-17	0	0	\$0.00	
S134600		Fabricate TPC FEE prototype v1 boards Labor	61	100%	01-Nov-17 A	02-Feb-18 A			01-Nov-17	02-Feb-18	0	0	\$0.00	
S134700		Fabricate TPC FEE prototype v1 boards M&S	61	100%	01-Nov-17 A	02-Feb-18 A			01-Nov-17	02-Feb-18	0	0	\$0.00	

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S134800		Procure TPC FEE prototype v1 LV power supplies Labor	29	100%	02-Oct-17 A	14-Nov-17 A			02-Oct-17	14-Nov-17	0	0	\$0.00	
S134900		Procure TPC FEE prototype v1 LV power supplies M&S	29	100%	02-Oct-17 A	14-Nov-17 A			02-Oct-17	14-Nov-17	0	0	\$0.00	
S135000		Develop TPC FEE Test Stand Labor	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	
S135100		Develop TPC FEE Test Stand M&S	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	
S135200		Assemble and test TPC FEE prototype v1 Labor	148	100%	01-Mar-18 A	28-Sep-18 A			01-Mar-18	28-Sep-18	0	0	\$0.00	
S135300		Assemble and test TPC FEE prototype v1 M&S	148	100%	01-Mar-18 A	28-Sep-18 A			01-Mar-18	28-Sep-18	0	0	\$0.00	
S135301	004	Preliminary Design Review - TPC FEE	0	100%		28-Sep-18 A				28-Sep-18	0	0	\$0.00	
S135400	004	Assemble and test TPC FEE prototype v1a Labor	161	100%	01-Oct-18 A	24-May-19 A			01-Oct-18	24-May-19	0	0	\$0.00	B_T
S135500	003	Assemble and test TPC FEE prototype v1a M&S	161	100%	01-Oct-18 A	24-May-19 A			01-Oct-18	24-May-19	0	0	\$0.00	A-OPC
S135600		TPC FEE Prototype v1 Safety Review	24	100%	01-Apr-19 A	03-May-19 A			01-Apr-19	03-May-19	0	0	\$0.00	
S135700	004	TPC FEE Prototype v1 Design Review	22	100%	03-Apr-19 A	03-May-19 A			03-Apr-19	03-May-19	0	0	\$0.00	
POM02.01.02.05.02 TPC FEE Prototype v2 (Pre-Production)			580		06-May-19 A	27-Aug-21 A			06-May-19	13-Mar-20	20977	1904	\$268,766.30	
S136800		v2 Design TPC FEE preproduction prototype	18	100%	06-May-19 A	31-May-19 A			06-May-19	31-May-19	0	0	\$0.00	B
S136802		v2 Design TPC FEE preproduction prototype Split	41	100%	01-Aug-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	728	\$91,344.03	B
S136900		v2 Procure TPC FEE preproduction prototype components Labor	189	100%	02-Jan-20 A	30-Sep-20 A			01-Oct-19	29-Oct-19	0	16	\$2,356.24	B
S137000	003	v2 Procure TPC FEE preproduction prototype components M&S	149	100%	01-Apr-20 A	30-Oct-20 A			01-Oct-19	29-Oct-19	5871	0	\$6,680.76	A-OPC
S137100		v2 Fabricate TPC FEE preproduction prototype boards Labor	42	100%	01-Apr-20 A	29-May-20 A			30-Oct-19	06-Dec-19	0	20	\$2,945.30	B
S137200	003	v2 Fabricate TPC FEE preproduction prototype boards M&S	42	100%	01-Apr-20 A	29-May-20 A			30-Oct-19	06-Dec-19	1476	0	\$1,679.58	A-OPC
S137300		v2 Modify TPC FEE Test Stand Labor	210	100%	02-Dec-19 A	30-Sep-20 A			01-Oct-19	13-Nov-19	0	420	\$54,538.26	B_T
S137400		v2 Modify TPC FEE Test Stand M&S	210	100%	02-Dec-19 A	30-Sep-20 A			01-Oct-19	13-Nov-19	8000	0	\$9,103.41	A-OPC
S137500	004	v2 Assemble and test TPC FEE preproduction prototype	283	100%	13-Apr-20 A	28-May-21 A			09-Dec-19	05-Mar-20	0	712	\$92,434.72	B_T
S137600	003	v2 Assemble and test TPC FEE preproduction prototype M&S	135	100%	13-Apr-20 A	23-Oct-20 A			09-Dec-19	05-Feb-20	5630	0	\$6,406.52	A-OPC
S137700	004	Final Design Review, Production Readiness Review - TPC FEE	346	100%	13-Apr-20 A	27-Aug-21 A			13-Mar-20	13-Mar-20	0	8	\$1,277.48	B
POM02.01.02.05.03 SAMPA chip 80 nsec			867		29-May-18 A	15-Nov-21 A			29-May-18	29-Apr-20	673637	785	\$848,177.80	
S137801	004	Preliminary Design Review - SAMPA chip 80 nsec	0	100%		09-Jul-18 A				09-Jul-18	0	0	\$0.00	
S137800		SAMPA chip 80 nsec development - Provide Requirements to Procurement	28	100%	29-May-18 A	09-Jul-18 A			29-May-18	09-Jul-18	0	0	\$0.00	
S137900		SAMPA chip 80 nsec development - Prepare & Send Solicitation	9	100%	10-Jul-18 A	23-Jul-18 A			10-Jul-18	23-Jul-18	0	0	\$0.00	
S138000		SAMPA chip 80 nsec development - Vendor Responses	7	100%	24-Jul-18 A	02-Aug-18 A			24-Jul-18	02-Aug-18	0	0	\$0.00	
S138100		SAMPA chip 80 nsec development - Vendor Selection	4	100%	03-Aug-18 A	09-Aug-18 A			03-Aug-18	09-Aug-18	0	0	\$0.00	
S138200		SAMPA chip 80 nsec development - Contract Award(s) - Report feasibility of 8	0	100%	02-Jul-18 A				02-Jul-18		0	0	\$0.00	A-OPC
S138400		SAMPA chip 80 nsec development - Leadtime - Report feasibility of 80ns/20V	109	100%	01-Oct-18 A	13-Mar-19 A			01-Oct-18	13-Mar-19	0	0	\$0.00	
S138500	003	SAMPA chip 80 nsec development - Delivery Acceptance - Report feasibility of	3	100%	14-Mar-19 A	19-Mar-19 A			14-Mar-19	19-Mar-19	0	0	\$0.00	A-OPC
S138300	003,004	SAMPA chip 80 nsec development - Contract Award(s) - Design at Layout level	0	100%	02-Jul-18 A				02-Jul-18		0	0	\$0.00	A-OPC
S138800		SAMPA chip 80 nsec development - Leadtime - Design at Layout level of new	17	100%	01-Apr-19 A	24-Apr-19 A			01-Apr-19	24-Apr-19	0	0	\$0.00	
S139000	003,004	SAMPA chip 80 nsec development - Delivery Acceptance - Design at Layout level	1	100%	25-Apr-19 A	26-Apr-19 A			25-Apr-19	26-Apr-19	0	0	\$0.00	A-OPC
S138310	003,004	SAMPA chip 80 nsec development - Contract Award(s) - Layout finalization for	0	100%	02-Jul-18 A				02-Jul-18		0	0	\$0.00	A-OPC
S138315	003,004	SAMPA chip 80 nsec development - Leadtime - Layout finalization for MPW ar	4	100%	24-Apr-19 A	30-Apr-19 A			24-Apr-19	30-Apr-19	0	0	\$0.00	A-OPC
S139010	003,004	SAMPA chip 80 nsec development - Delivery Acceptance - Layout finalization	1	100%	01-May-19 A	02-May-19 A			01-May-19	02-May-19	0	0	\$0.00	A-OPC
S139100	003	Procure MPW Run of SAMPA v5 components - Provide Requirements to Proc	5	100%	18-Mar-19 A	23-Mar-19 A			18-Mar-19	23-Mar-19	0	0	\$0.00	B
S139200		Procure MPW Run of SAMPA v5 components - Prepare & Send Solicitation	1	100%	25-Mar-19 A	26-Mar-19 A			25-Mar-19	26-Mar-19	0	0	\$0.00	
S139300		Procure MPW Run of SAMPA v5 components - Vendor Responses	2	100%	27-Mar-19 A	29-Mar-19 A			27-Mar-19	29-Mar-19	0	0	\$0.00	
S139400		Procure MPW Run of SAMPA v5 components - Vendor Selection	0	100%	29-Mar-19 A	29-Mar-19 A			29-Mar-19	29-Mar-19	0	0	\$0.00	
S139500		Procure MPW Run of SAMPA v5 components - Contract Award	0	100%	29-Mar-19 A				29-Mar-19		0	0	\$0.00	A-OPC
S139600		Procure MPW Run of SAMPA v5 components - Leadtime	21	100%	01-Apr-19 A	30-Apr-19 A			01-Apr-19	30-Apr-19	0	0	\$0.00	
S139700	003	Procure MPW Run of SAMPA v5 components - Delivery Acceptance	1	100%	01-May-19 A	02-May-19 A			01-May-19	02-May-19	0	0	\$0.00	A-OPC

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S139705	003	Procure second phase of SAMPA development - Contract Award	1	100%	26-Feb-19 A	27-Feb-19 A			26-Feb-19	27-Feb-19	0	0	\$0.00	A-OPC
S139710	003	Procure second phase of SAMPA development - Delivery of Test Boards	3	100%	03-May-19 A	08-May-19 A			03-May-19	08-May-19	0	0	\$0.00	A-OPC
S139715	003	Procure second phase of SAMPA development - Delivery of Results from first	4	100%	21-May-19 A	28-May-19 A			21-May-19	28-May-19	0	0	\$0.00	A-OPC
S139720	003	Procure second phase of SAMPA development - Delivery of First Chip Layout	10	100%	02-Jul-19 A	16-Jul-19 A			01-Jul-19	08-Jul-19	35000	0	\$38,614.28	A-OPC
S139725	003	Procure second phase of SAMPA development - Delivery of Final Review of te	11	100%	17-Jul-19 A	31-Jul-19 A			09-Jul-19	05-Aug-19	70000	0	\$77,228.55	A-OPC
S139730	003	Procure second phase of SAMPA development - Delivery of Eng Design Revi	20	100%	01-Aug-19 A	28-Aug-19 A			06-Aug-19	03-Sep-19	47500	0	\$52,405.09	A-OPC
S139735	003	Procure second phase of SAMPA development - Delivery of Eng Run Prepara	1	100%	29-Aug-19 A	30-Aug-19 A			04-Sep-19	01-Oct-19	20000	0	\$22,065.30	A-OPC
S138900	003	Review Design of Full-scale Production Chip (USP + BNL)	1	100%	29-Aug-19 A	30-Aug-19 A			04-Sep-19	10-Sep-19	0	40	\$5,798.35	B
S138901	004	Final Design Review - SAMPA chip 80 nsec	2	100%	28-Aug-19 A	30-Aug-19 A			10-Sep-19	10-Sep-19	0	16	\$2,319.34	B
S139800	003	Procure Engineering Run of Full SAMPA Chip - Provide Requirements to Proc	3	100%	27-Aug-19 A	30-Aug-19 A			02-Oct-19	08-Oct-19	0	40	\$6,683.72	B
S139900		Procure Engineering Run of Full SAMPA Chip - Prepare & Send Solicitation	5	100%	22-Aug-19 A	29-Aug-19 A			09-Oct-19	23-Oct-19	0	0	\$0.00	
S140000		Procure Engineering Run of Full SAMPA Chip - Vendor Responses	6	100%	22-Aug-19 A	30-Aug-19 A			24-Oct-19	06-Nov-19	0	0	\$0.00	
S140100		Procure Engineering Run of Full SAMPA Chip - Vendor Selection	6	100%	22-Aug-19 A	30-Aug-19 A			07-Nov-19	14-Nov-19	0	0	\$0.00	
S140200		Procure Engineering Run of Full SAMPA Chip - Contract Award	0	100%	31-Oct-19 A				15-Nov-19		0	0	\$0.00	A-TEC
S140300		Procure Engineering Run of Full SAMPA Chip - Leadtime	71	100%	30-Oct-19 A	13-Feb-20 A			15-Nov-19	13-Feb-20	0	0	\$0.00	
S140400	003	Procure Engineering Run of Full SAMPA Chip - Delivery Acceptance	130	100%	30-Dec-19 A	06-Jul-20 A			14-Feb-20	21-Feb-20	233000	0	\$265,136.71	A-TEC
S138700	003,005	Review the Test Result of the Full Chip (USP + BNL)	4	100%	14-Apr-20 A	20-Apr-20 A			24-Feb-20	28-Feb-20	0	0	\$0.00	
S140500	003	Populate v2 Prototype TPC FEE Board with 80nsec Full SAMPA Chip	41	100%	03-Aug-20 A	30-Sep-20 A			02-Mar-20	27-Mar-20	3000	0	\$3,413.78	A-TEC
S140600		Test v2 Prototype TPC FEE Board with 80nsec Full SAMPA Chip March	2	100%	02-Mar-20 A	03-Mar-20 A			30-Mar-20	31-Mar-20	0	20	\$2,986.15	B
S140605		Test v2 Prototype TPC FEE Board with 80nsec Full SAMPA Chip	205	100%	03-Aug-20 A	28-May-21 A			01-Apr-20	14-Apr-20	0	380	\$56,736.89	B
S140700		Review Results of SAMPA 80 nsec Full Chip Performance with v2 Prototype T	31	100%	17-May-21 A	30-Jun-21 A			15-Apr-20	28-Apr-20	0	265	\$45,868.65	B
S140701	004	Production Readiness Review for TPC FEE full production	4	100%	08-Nov-21 A	15-Nov-21 A			29-Apr-20	29-Apr-20	0	24	\$3,784.27	B
S140800		SAMPA ASIC Performance Accepted	0	100%		29-May-20 A				29-Apr-20	0	0	\$0.00	
OBLG1382		SAMPA chip 80 nsec development - Obligation - MPW to Test Design Change	0	100%	02-Jul-18 A	02-Jul-18 A			02-Jul-18	02-Jul-18	0	0	\$0.00	A-OPC
OBLG1402		Procure Engineering Run of Full SAMPA Chip - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			15-Nov-19	15-Nov-19	265137	0	\$265,136.71	A-TEC
POM02.01.02.05.04 TPC FEE Production			1016		22-Oct-18 A	14-Nov-22	14-Nov-22	103	22-Oct-18	30-Sep-22	1736493	3735	\$2,268,709.34	
OBLG1363	003	Procure TPC FEE Cooling System - Obligation	6	100%	01-Jul-21 A	12-Jul-21 A			02-Jun-20	02-Jun-20	68452	0	\$68,451.93	A-TEC
OBLG1413		Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Cor	1	100%	27-May-21 A	28-May-21 A			22-Jul-20	22-Jul-20	34429	0	\$34,429.38	A-TEC
OBLG1416		Procure TPC FEE Production Components, Phase 2 (All except Optical and S	1	100%	27-May-21 A	28-May-21 A			22-Jul-20	22-Jul-20	309548	0	\$309,547.59	A-TEC
OBLG1423		Procure TPC FEE LV Power Supplies - Obligation	6	100%	01-Jul-21 A	12-Jul-21 A			16-Jun-20	16-Jun-20	216270	0	\$216,269.63	A-TEC
OBLG1430		Procure TPC FEE Production Boards & Assembly - Obligation	1	100%	26-May-21 A	27-May-21 A			11-Jan-21	11-Jan-21	175244	0	\$175,243.63	A-TEC
S135800	003	Design TPC FEE Cooling System	151	100%	22-Oct-18 A	31-May-19 A			22-Oct-18	31-May-19	0	0	\$0.00	B
S135802	003	Design TPC FEE Cooling System Split	82	100%	01-Aug-19 A	29-Nov-19 A			03-Jun-19	30-Sep-19	0	160	\$19,651.97	B
S135900	003	Procure TPC FEE Cooling System - Provide Requirements to Procurement	10	100%	11-Jan-21 A	26-Jan-21 A			16-Mar-20	27-Mar-20	0	20	\$3,075.74	B
S136000	003	Procure TPC FEE Cooling System - Prepare & Send Solicitation	10	100%	11-Jan-21 A	26-Jan-21 A			30-Mar-20	08-May-20	0	0	\$0.00	B
S136100	003	Procure TPC FEE Cooling System - Vendor Responses	10	100%	11-Jan-21 A	26-Jan-21 A			11-May-20	22-May-20	0	0	\$0.00	B
S136200	003	Procure TPC FEE Cooling System - Vendor Selection	10	100%	11-Jan-21 A	26-Jan-21 A			26-May-20	01-Jun-20	0	0	\$0.00	B
S136300	003	Procure TPC FEE Cooling System - Contract Award(s)	0	100%	25-Feb-21 A				02-Jun-20		0	0	\$0.00	A-TEC
S136400	003	Procure TPC FEE Cooling System - Contract/PO - Leadtime	23	100%	26-Feb-21 A	31-Mar-21 A			02-Jun-20	25-Aug-20	0	0	\$0.00	
S136500	015	Procure TPC FEE Cooling System - Delivery Acceptance	136	100%	15-Mar-21 A	24-Sep-21 A			21-Dec-20	28-Dec-20	60155	0	\$69,820.96	A-TEC
S140900		Procure TPC FEE Production Components - Provide Requirements to Procure	16	100%	05-May-20 A	28-May-20 A			16-Mar-20	27-Mar-20	0	216	\$20,910.97	B_T
S141000		Procure TPC FEE Production Components - Prepare & Send Solicitation	16	100%	05-May-20 A	28-May-20 A			16-Mar-20	24-Apr-20	0	0	\$0.00	
S141100		Procure TPC FEE Production Components - Vendor Responses	16	100%	05-May-20 A	28-May-20 A			27-Apr-20	01-Jun-20	0	0	\$0.00	
S141200		Procure TPC FEE Production Components - Vendor Selection	8	100%	20-Oct-20 A	30-Oct-20 A			02-Jun-20	21-Jul-20	0	0	\$0.00	
S141300		Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Cor	0	100%	29-Jun-21 A				22-Jul-20		0	0	\$0.00	A-TEC

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S141400		Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Cor	1	100%	29-Jun-21 A	30-Jun-21 A			22-Jul-20	29-Oct-20	0	0	\$0.00	
S141500	015	Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Cor	97	100%	15-Mar-21 A	30-Jul-21 A			04-Jan-21	08-Jan-21	29663	0	\$34,429.38	A-TEC
S141600		Procure TPC FEE Production Components, Phase 2 (All except Optical and S	0	100%	28-Oct-20 A				22-Jul-20		0	0	\$0.00	A-TEC
S141700		Procure TPC FEE Production Components, Phase 2 (All except Optical and S	18	100%	30-Oct-20 A	30-Nov-20 A			22-Jul-20	29-Oct-20	0	0	\$0.00	
S141800	015	Procure TPC FEE Production Components, Phase 2 (All except Optical and S	391	100%	02-Nov-20 A	27-May-22 A			04-Jan-21	08-Jan-21	266694	0	\$309,547.54	A-TEC
S141900		Procure TPC FEE LV power supplies - Provide Requirements to Procurement	2	100%	25-Aug-20 A	27-Aug-20 A			16-Mar-20	20-Mar-20	0	32	\$4,853.85	B
S142000		Procure TPC FEE LV Power Supplies - Prepare & Send Solicitation	6	100%	22-Sep-20 A	30-Sep-20 A			23-Mar-20	01-May-20	0	0	\$0.00	
S142100		Procure TPC FEE LV Power Supplies - Vendor Responses	8	100%	20-Oct-20 A	30-Oct-20 A			04-May-20	15-May-20	0	0	\$0.00	
S142200		Procure TPC FEE LV Power Supplies - Vendor Selection	8	100%	20-Oct-20 A	30-Oct-20 A			18-May-20	15-Jun-20	0	0	\$0.00	
S142300		Procure TPC FEE LV Power Supplies - Contract Award(s)	0	100%	20-Jan-21 A				16-Jun-20		0	0	\$0.00	A-TEC
S142400		Procure TPC FEE LV Power Supplies - Contract/PO - Leadtime	48	100%	21-Jan-21 A	31-Mar-21 A			16-Jun-20	11-Aug-20	0	0	\$0.00	
S142500	015	Procure TPC FEE LV Power Supplies - Delivery Acceptance	403	100%	25-Jan-21 A	31-Aug-22 A			15-Dec-20	21-Dec-20	190056	0	\$220,595.02	A-TEC
S142600		Procure TPC FEE Production Boards & Assembly - Provide Requirements to I	8	100%	13-May-20 A	26-May-20 A			30-Mar-20	03-Apr-20	0	44	\$6,479.66	B
S142700		Procure TPC FEE Production Boards & Assembly - Prepare & Send Solicitati	8	100%	13-May-20 A	26-May-20 A			06-Apr-20	15-May-20	0	0	\$0.00	
S142800		Procure TPC FEE Production Boards & Assembly - Vendor Responses	8	100%	13-May-20 A	26-May-20 A			18-May-20	01-Jun-20	0	0	\$0.00	
S142900		Procure TPC FEE Production Boards & Assembly - Vendor Selection	14	100%	12-Apr-21 A	30-Apr-21 A			02-Jun-20	29-Jun-20	0	0	\$0.00	
S143000		Procure TPC FEE Production Boards & Assembly - Contract Award(s)	0	100%	30-Apr-21 A				11-Jan-21		0	0	\$0.00	A-TEC
S143100		Procure TPC FEE Production Boards & Assembly - Contract/PO - Leadtime	63	100%	30-Apr-21 A	30-Jul-21 A			11-Jan-21	30-Mar-21	0	0	\$0.00	
S143200	003,004	Procure TPC FEE Production Boards & Assembly - Delivery Acceptance	73	100%	11-Oct-21 A	31-Jan-22 A			31-Mar-21	06-Apr-21	150983	0	\$178,748.47	A-TEC
S143250	017	TPC Front End Electronics Protection Components	116	100%	15-Feb-21 A	30-Jul-21 A			01-Dec-20	30-Apr-21	150000	0	\$174,102.65	A-TEC
S143270	020	TPC FEE Electrical Engineering Support 1	268	100%	01-Feb-21 A	28-Feb-22 A			01-Feb-21	30-Dec-21	0	1500	\$120,025.52	A-TEC
S143271	020	TPC FEE Electrical Engineering Support 2	249	100%	01-Feb-21 A	31-Jan-22 A			01-Feb-21	30-Dec-21	0	0	\$0.00	A-TEC
S143272	030A	TPC FEE Electrical Engineering Support 3	127	100%	01-Apr-22 A	30-Sep-22 A			01-Mar-22	30-Sep-22	0	880	\$119,633.53	A-TEC
S143280	030A	JACK Board parts	40	100%	01-Apr-22 A	27-May-22 A			01-Mar-22	30-Sep-22	50000	0	\$55,780.68	A-TEC
S143285	030A	JACK Board boards and assembly	157	94.04%	01-Apr-22 A	14-Nov-22	14-Nov-22	103	01-Mar-22	30-Sep-22	35000	0	\$39,046.47	A-TEC
S143300		Perform QA Testing on TPC FEE	218	100%	18-Oct-21 A	31-Aug-22 A			07-Apr-21	15-Jul-21	0	883	\$88,064.77	B_T
S143400		TPC FEE Production Complete	0	100%		31-Aug-22 A				15-Jul-21	0	0	\$0.00	
POM02.01.02.06 TPC DAM			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	30-Sep-22	1187062	8082	\$2,245,548.00	
POM02.01.02.06.01 TPC DAM Evaluation -- FELIX 1.5			216		01-Feb-17 A	12-Dec-17 A			01-Feb-17	12-Dec-17	0	0	\$0.00	
S143500		Write Design Spec for TPC DAM prototype v1	21	100%	01-Feb-17 A	03-Mar-17 A			01-Feb-17	03-Mar-17	0	0	\$0.00	
S143600		Develop TPC DAM prototype v1 Test Stand Labor	194	100%	06-Mar-17 A	12-Dec-17 A			06-Mar-17	12-Dec-17	0	0	\$0.00	
S143700		Develop TPC DAM prototype v1 Test Stand M&S	39	100%	06-Mar-17 A	28-Apr-17 A			06-Mar-17	28-Apr-17	0	0	\$0.00	
S143800		Measure TPC DAM prototype v1 Throughput	154	100%	01-May-17 A	12-Dec-17 A			01-May-17	12-Dec-17	0	0	\$0.00	
S143900	004	Preliminary Design Review - TPC DAM	0	100%		12-Dec-17 A				12-Dec-17	0	0	\$0.00	
POM02.01.02.06.02 TPC DAM Evaluation -- FELIX 2.0			627		28-Dec-17 A	30-Jun-20 A			28-Dec-17	18-Jun-20	160079	2608	\$498,792.07	
OBLG1451	003	Procure TPC DAM Felix 2.0 Boards Throughput (Optical) - Obligation	1	100%	03-Sep-19 A	03-Sep-19 A			03-Jun-19	03-Jun-19	81116	0	\$81,116.00	A-OPC
S144000		Procure TPC DAM Felix 2.0 Boards Evaluation - Provide Requirements to Prc	14	100%	28-Dec-17 A	19-Jan-18 A			28-Dec-17	19-Jan-18	0	0	\$0.00	
S144100		Procure TPC DAM Felix 2.0 Boards Evaluation - Prepare & Send Solicitation	20	100%	20-Jan-18 A	20-Feb-18 A			20-Jan-18	20-Feb-18	0	0	\$0.00	
S144200		Procure TPC DAM Felix 2.0 Boards Evaluation - Vendor Responses	8	100%	21-Feb-18 A	05-Mar-18 A			21-Feb-18	05-Mar-18	0	0	\$0.00	
S144300		Procure TPC DAM Felix 2.0 Boards Evaluation - Vendor Selection	14	100%	06-Mar-18 A	26-Mar-18 A			06-Mar-18	26-Mar-18	0	0	\$0.00	
S144400		Procure TPC DAM Felix 2.0 Boards Evaluation - Contract Award(s)	0	100%	26-Mar-18 A				26-Mar-18		0	0	\$0.00	A-OPC
S144500		Procure TPC DAM Felix 2.0 Boards Evaluation - Contract/PO - Leadtime	111	100%	27-Mar-18 A	31-Aug-18 A			27-Mar-18	31-Aug-18	0	0	\$0.00	
S144600		Procure TPC DAM Felix 2.0 Boards Evaluation - Delivery Acceptance	1	100%	01-Sep-18 A	05-Sep-18 A			01-Sep-18	05-Sep-18	0	0	\$0.00	
S144700		Develop TPC DAM FPGA Algorithm - FY18	16	100%	06-Sep-18 A	28-Sep-18 A			06-Sep-18	28-Sep-18	0	0	\$0.00	
S144800		Procure TPC DAM Felix 2.0 Boards Throughput - Prepare & Send Solicitation	166	100%	01-Oct-18 A	03-Jun-19 A			01-Oct-18	03-Jun-19	0	0	\$0.00	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S144900		Procure TPC DAM Felix 2.0 Boards Throughput - Vendor Responses	9	100%	01-Feb-19 A	14-Feb-19 A			01-Feb-19	14-Feb-19	0	0	\$0.00	
S145000		Procure TPC DAM Felix 2.0 Boards Throughput - Vendor Selection	20	100%	15-Feb-19 A	15-Mar-19 A			15-Feb-19	15-Mar-19	0	0	\$0.00	
S145100	005	Procure TPC DAM Felix 2.0 Boards - Optical - Contract Award(s)	0	100%	01-Aug-19 A				03-Jun-19		0	0	\$0.00	A-OPC
S145600		Procure TPC DAM Felix 2.0 Boards Throughput - Contract/PO - Leadtime	96	100%	18-Mar-19 A	01-Aug-19 A			18-Mar-19	01-Jul-19	0	0	\$0.00	
S145700	003	Procure TPC DAM Felix 2.0 Boards Throughput - Delivery Acceptance	143	100%	01-Aug-19 A	28-Feb-20 A			02-Jul-19	09-Jul-19	73524	0	\$81,116.46	A-OPC
S145750	003,004	Procure Full Set of Data Fibers for Design Validation - M&S	10	100%	01-Aug-19 A	14-Aug-19 A			03-Jun-19	14-Jun-19	2876	0	\$3,172.99	A-OPC
S146200		Develop TPC DAM FPGA Algorithm - Round 1	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	B_T
S146201	004,005	Final Design Review - TPC DAM	1	100%	02-Jan-20 A	02-Jan-20 A			16-Aug-19	16-Aug-19	0	8	\$1,277.48	B
S146202		Develop TPC DAM FPGA Algorithm - Round 1 Split	21	100%	01-Aug-19 A	30-Aug-19 A			03-Jun-19	15-Aug-19	0	1372	\$182,774.87	B_T
S146300	003	Miscellaneous Parts for TPC DAM FPGA Algorithm Development - Round 1	21	100%	01-Aug-19 A	30-Aug-19 A			03-Jun-19	24-Sep-19	2563	0	\$2,827.67	A-OPC
S146400		Measure Throughput of FELIX 2.0 for TPC DAM	43	100%	01-Apr-19 A	31-May-19 A			01-Apr-19	31-May-19	0	0	\$0.00	B
S146402		Measure Throughput of FELIX 2.0 for TPC DAM Split	103	100%	21-Aug-19 A	22-Jan-20 A			25-Sep-19	17-Dec-19	0	126	\$20,064.90	B
S146500	004	Production Readiness Review - TPC DAM	2	100%	03-Feb-20 A	04-Feb-20 A			18-Dec-19	18-Dec-19	0	8	\$1,277.48	B
S146700		Develop TPC DAM FPGA Algorithm - Round 2	206	100%	03-Sep-19 A	30-Jun-20 A			16-Aug-19	18-Jun-20	0	1094	\$125,164.22	B_T
POM02.01.02.06.03 TPC DAM Production			668		02-Mar-20 A	28-Oct-22 A			19-Dec-19	30-Sep-22	1026983	5474	\$1,746,755.93	
OBLG1471	003	Procure TPC DAM Felix 2.0 Optical Components - Obligation	1	100%	14-Mar-22 A	15-Mar-22 A			19-Mar-20	19-Mar-20	91882	0	\$91,881.82	
OBLG1471	003	Procure TPC DAM Felix 2.0 Boards - Obligation	0	100%	29-Jun-21 A	29-Jun-21 A			18-Mar-20	18-Mar-20	148342	0	\$148,342.28	A-TEC
OBLG1482	003	Procure TPC EDBC Computers & Peripherals - Obligation	1	100%	27-May-21 A	28-May-21 A			07-Oct-20	07-Oct-20	244769	0	\$244,768.63	A-TEC
S146600	003	Procure TPC DAM Felix 2.0 boards - Provide Requirements to Procurement	43	100%	02-Mar-20 A	30-Apr-20 A			19-Dec-19	07-Apr-20	0	570	\$71,568.82	B_T
S146800		Procure TPC DAM Felix 2.0 Boards - Prepare & Send Solicitation	116	100%	02-Mar-20 A	12-Aug-20 A			19-Dec-19	03-Feb-20	0	0	\$0.00	
S146900		Procure TPC DAM Felix 2.0 Boards - Vendor Responses	10	100%	13-Aug-20 A	26-Aug-20 A			04-Feb-20	18-Feb-20	0	0	\$0.00	
S147000		Procure TPC DAM Felix 2.0 Boards - Vendor Selection	44	100%	27-Aug-20 A	30-Oct-20 A			19-Feb-20	17-Mar-20	0	0	\$0.00	
S147100		Procure TPC DAM Felix 2.0 Boards - Contract Award(s)	0	100%	27-Aug-20 A				18-Mar-20		0	0	\$0.00	A-TEC
S147200		Procure TPC DAM Felix 2.0 Boards - Contract/PO - Leadtime	162	100%	28-Aug-20 A	26-Apr-21 A			18-Mar-20	01-Jul-20	0	0	\$0.00	
S147300	015	Procure TPC DAM Felix 2.0 Boards - Delivery Acceptance	187	100%	02-Dec-20 A	30-Aug-21 A			04-Jan-21	08-Jan-21	130362	0	\$151,309.13	A-TEC
S147310	003	Procure TPC DAM Felix 2.0 Optical Components - Provide Requirements to F	245	100%	02-Mar-20 A	23-Feb-21 A			19-Dec-19	07-Apr-20	0	570	\$71,568.82	B_T
S147320	003	Procure TPC DAM Felix 2.0 Optical Components - Prepare & Send Solicitation	271	100%	02-Mar-20 A	31-Mar-21 A			19-Dec-19	03-Feb-20	0	0	\$0.00	
S147330	003	Procure TPC DAM Felix 2.0 Optical Components - Vendor Responses	6	100%	21-Oct-20 A	29-Oct-20 A			04-Feb-20	18-Feb-20	0	0	\$0.00	
S147340	003	Procure TPC DAM Felix 2.0 Optical Components - Vendor Selection	6	100%	21-Oct-20 A	29-Oct-20 A			19-Feb-20	17-Mar-20	0	0	\$0.00	
S147350	003	Procure TPC DAM Felix 2.0 Optical Components - Contract Award(s)	0	100%	16-Mar-22 A				18-Mar-20		0	0	\$0.00	A-TEC
S147360	003	Procure TPC DAM Felix 2.0 Optical Components - Contract/PO - Leadtime	41	100%	17-Mar-22 A	13-May-22 A			20-Mar-20	06-Jul-20	0	0	\$0.00	
S147370	015	Procure TPC DAM Felix 2.0 Optical Components - Contract/PO - Delivery Acc	15	100%	06-May-22 A	27-May-22 A			04-Jan-21	08-Jan-21	80745	0	\$95,593.84	A-TEC
S147380	020	TPC DAM Electrical Engineering Support	268	100%	01-Feb-21 A	28-Feb-22 A			01-Feb-21	30-Dec-21	0	368	\$48,446.29	A-TEC
S147400		Perform QA Testing on TPC DAM FELIX 2.0 boards	362	100%	08-Mar-21 A	15-Aug-22 A			11-Jan-21	30-Mar-21	0	755	\$70,146.34	B_T
S147440	031A	Fiber trunk cables (patch panel to rack room)	43	100%	27-May-21 A	29-Jul-22 A			01-Apr-22	30-Sep-22	70000	0	\$78,092.95	A-TEC
S147450	030A	Fiber Sort Out Box	146	100%	01-Apr-22 A	28-Oct-22 A			01-Mar-22	30-Sep-22	50000	0	\$55,780.68	A-TEC
S147500		TPC DAM Felix 2.0 Bandwidth test in 1008	323	100%	15-Mar-21 A	27-Jun-22 A			31-Mar-21	25-May-21	0	387	\$60,415.56	B
S147600		TPC DAM Felix 2.0 Production Complete	0	100%		27-Jun-22 A				25-May-21	0	0	\$0.00	
S147700		Develop TPC DAM FPGA Algorithm - Round 3	238	100%	16-Jun-20 A	28-May-21 A			19-Jun-20	25-Feb-21	0	504	\$39,041.38	B_T
S147800		Procure TPC EDBC Computers & Peripherals - Provide Requirements to Proc	41	100%	01-Jul-20 A	28-Aug-20 A			07-Jul-20	13-Jul-20	0	480	\$44,708.47	B_T
S147900		Procure TPC EDBC Computers & Peripherals - Prepare & Send Solicitation	156	100%	09-Jul-20 A	25-Feb-21 A			14-Jul-20	24-Aug-20	0	0	\$0.00	
S148000		Procure TPC EDBC Computers & Peripherals - Vendor Responses	86	100%	20-Oct-20 A	26-Feb-21 A			25-Aug-20	08-Sep-20	0	0	\$0.00	
S148100		Procure TPC EDBC Computers & Peripherals - Vendor Selection	131	100%	20-Oct-20 A	30-Apr-21 A			09-Sep-20	06-Oct-20	0	0	\$0.00	
S148200		Procure TPC EDBC Computers & Peripherals - Contract Award(s)	0	100%	30-Apr-21 A				07-Oct-20		0	0	\$0.00	A-TEC
S148300		Procure TPC EDBC Computers & Peripherals - Contract/PO - Leadtime	28	100%	17-May-21 A	25-Jun-21 A			07-Oct-20	06-Jan-21	0	0	\$0.00	

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S148400	003	Procure TPC EDBC Computers & Peripherals - Delivery Acceptance	9	100%	01-Jun-21 A	14-Jun-21 A			07-Jan-21	13-Jan-21	210883	0	\$244,768.59	A-TEC
S148500	003	Test Full TPC DAM System	66	100%	27-May-22 A	31-Aug-22 A			31-Mar-21	18-Oct-21	0	1840	\$230,322.35	B_T
S148600		TPC DAM Production Complete	0	100%		27-Jun-22 A				18-Oct-21	0	0	\$0.00	
POM02.01.02.07 TPC Support Systems			763		12-Sep-19 A	30-Sep-22 A			24-Jul-19	30-Sep-22	1237695	5484	\$1,836,978.01	
POM02.01.02.07.01 TPC Laser System			763		12-Sep-19 A	30-Sep-22 A			24-Jul-19	30-Sep-22	931333	1176	\$1,126,153.16	
OBLG1494	003	Procure TPC Lasers - Obligation	1	100%	22-Jun-21 A	23-Jun-21 A			07-Jan-20	07-Jan-20	167283	0	\$167,283.00	A-TEC
OBLG1501	003	Procure TPC Optics with Mirrors - Obligation	1	100%	22-Jun-21 A	23-Jun-21 A			07-Jan-20	07-Jan-20	66910	0	\$66,910.04	A-TEC
S148700		Design TPC Laser System	136	100%	12-Sep-19 A	31-Mar-20 A			24-Jul-19	18-Sep-19	0	960	\$81,207.66	B_T
S148701		Final Design Review - TPC Laser System	2	100%	24-Aug-20 A	26-Aug-20 A			18-Sep-19	18-Sep-19	0	8	\$1,277.48	B
S148800		TPC Laser System Safety Review	134	100%	22-Mar-21 A	29-Sep-21 A			19-Sep-19	19-Sep-19	0	8	\$1,315.81	B
S148900	004	Procurement Readiness Review - TPC Laser System	134	100%	22-Mar-21 A	29-Sep-21 A			27-Sep-19	27-Sep-19	0	8	\$1,315.81	B
S149000		Procure TPC Laser(s) - Provide Requirements to Procurement	5	100%	13-Oct-20 A	19-Oct-20 A			30-Sep-19	04-Oct-19	0	96	\$7,280.78	B_T
S149100		Procure TPC Lasers - Prepare & Send Solicitation	8	100%	20-Oct-20 A	30-Oct-20 A			07-Oct-19	19-Nov-19	0	0	\$0.00	
S149200		Procure TPC Lasers - Vendor Responses	8	100%	20-Oct-20 A	30-Oct-20 A			20-Nov-19	05-Dec-19	0	0	\$0.00	
S149300		Procure TPC Lasers - Vendor Selection	8	100%	20-Oct-20 A	30-Oct-20 A			06-Dec-19	06-Jan-20	0	0	\$0.00	
S149400		Procure TPC Lasers - Contract Award(s)	0	100%	20-Oct-20 A				07-Jan-20		0	0	\$0.00	A-TEC
S149500		Procure TPC Lasers - Contract/PO - Leadtime	8	100%	20-Oct-20 A	30-Oct-20 A			07-Jan-20	25-Jun-20	0	0	\$0.00	
S149600	003	Procure TPC Lasers - Delivery Acceptance	306	100%	06-Oct-20 A	30-Dec-21 A			26-Jun-20	02-Jul-20	145840	0	\$169,274.20	A-TEC
S149620	030A	Line Laser custom Attenuator	87	100%	27-May-22 A	30-Sep-22 A			01-Mar-22	30-Sep-22	35000	0	\$39,046.47	A-TEC
S149650	034A	TPC Diffuse Lasers	394	100%	04-Jan-21 A	29-Jul-22 A			01-Dec-20	30-Jun-21	100000	0	\$116,068.43	A-TEC
S149660	034A	TPC Diffuse Lasers Fiber Coupling	394	100%	04-Jan-21 A	29-Jul-22 A			01-Apr-22	30-Sep-22	42500	0	\$47,413.57	A-TEC
S149700		Procure TPC Optics with mirrors - Provide Requirements to Procurement	5	100%	13-Oct-20 A	19-Oct-20 A			30-Sep-19	04-Oct-19	0	48	\$3,640.39	B_T
S149800		Procure TPC Optics with Mirrors - Prepare & Send Solicitation	5	100%	13-Oct-20 A	19-Oct-20 A			07-Oct-19	19-Nov-19	0	0	\$0.00	
S149900		Procure TPC Optics with Mirrors - Vendor Responses	5	100%	13-Oct-20 A	19-Oct-20 A			20-Nov-19	05-Dec-19	0	0	\$0.00	
S150000		Procure TPC Optics with Mirrors - Vendor Selection	5	100%	13-Oct-20 A	19-Oct-20 A			06-Dec-19	06-Jan-20	0	0	\$0.00	
S150100		Procure TPC Optics with Mirrors - Contract Award(s)	0	100%	13-Oct-20 A				07-Jan-20		0	0	\$0.00	A-TEC
S150200		Procure TPC Optics with Mirrors - Contract/PO - Leadtime	13	100%	13-Oct-20 A	30-Oct-20 A			07-Jan-20	01-Apr-20	0	0	\$0.00	
S150300	003	Procure TPC Optics with Mirrors - Delivery Acceptance	448	100%	13-Oct-20 A	29-Jul-22 A			02-Apr-20	08-Apr-20	58800	0	\$68,248.24	A-TEC
S150330	030A	Light pipes	87	100%	27-May-22 A	30-Sep-22 A			01-Mar-22	30-Sep-22	71000	0	\$79,208.56	A-TEC
S150350	034A	Fiber Splitters	19	100%	01-Jul-22 A	29-Jul-22 A			01-Mar-22	30-Sep-22	0	0	\$0.00	A-TEC
S150370	030A	Custom Motor drive, electronics and control sensors	87	100%	27-May-22 A	30-Sep-22 A			01-Mar-22	30-Sep-22	190000	0	\$211,966.57	A-TEC
S150380	031A	Custom Motor drive, electronics and control sensors price adjustment	87	100%	27-May-22 A	30-Sep-22 A			01-Apr-22	30-Sep-22	37000	0	\$41,277.70	A-TEC
S150400		Procure TPC mirror bundles with supports Labor	344	100%	13-Jan-21 A	27-May-22 A			30-Sep-19	27-Dec-19	0	48	\$3,640.39	B_T
S150500		Procure TPC mirror bundles with supports M&S	344	100%	13-Jan-21 A	27-May-22 A			30-Sep-19	27-Dec-19	15000	0	\$17,410.26	A-TEC
S150600	029B	Install & Test TPC lasers	4	100%	06-Sep-21 A	13-Sep-21 A			06-Jul-20	08-Jul-20	0	0	\$0.00	B
S150700	029B	Install & Test TPC Laser safety interlocks Labor	11	100%	13-Sep-21 A	28-Sep-21 A			09-Jul-20	20-Jul-20	0	0	\$0.00	B
S150800		Install & Test TPC Laser safety interlocks M&S	11	100%	13-Sep-21 A	28-Sep-21 A			09-Jul-20	20-Jul-20	2000	0	\$2,367.80	A-TEC
S150900	029B	Install & Test TPC Laser optics with mounts	11	100%	13-Sep-21 A	28-Sep-21 A			09-Jul-20	20-Jul-20	0	0	\$0.00	B
S151000	029B	Install & Test TPC mirror bundles and supports	11	100%	13-Sep-21 A	28-Sep-21 A			21-Jul-20	23-Jul-20	0	0	\$0.00	B
S151100		TPC Laser System Complete	0	100%		28-Sep-21 A				23-Jul-20	0	0	\$0.00	
POM02.01.02.07.02 TPC Gas System			676		12-Sep-19 A	27-May-22 A			24-Jul-19	25-Feb-21	188398	2584	\$436,276.24	
OBLG1521	003	Procure TPC Gas System Equipment - Obligation	1	100%	30-Sep-20 A	30-Sep-20 A			02-Apr-20	02-Apr-20	37591	0	\$37,591.38	A-TEC
OBLG1535	003	Procure TPC Gas System Components for Installation - Obligation	5	100%	11-Jan-21 A	19-Jan-21 A			19-Nov-20	19-Nov-20	39563	0	\$39,563.09	A-TEC
S151200		Design TPC Gas Handling System	135	100%	12-Sep-19 A	31-Mar-20 A			24-Jul-19	17-Dec-19	0	2400	\$203,019.14	B_T
S151201	004	Final Design Review - TPC Gas Handling System	2	100%	24-Aug-20 A	26-Aug-20 A			17-Dec-19	17-Dec-19	0	8	\$1,277.48	B

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S151300		TPC Gas System Safety Review	3	100%	15-Jun-21 A	18-Jun-21 A			18-Dec-19	18-Dec-19	0	8	\$1,315.81	B
S151400	004	Procurement Readiness Review - TPC Gas System	256	100%	22-Jun-20 A	30-Jun-21 A			27-Dec-19	27-Dec-19	0	8	\$1,277.48	B
S151500		Procure TPC Gas System mass flow meters Labor	12	100%	13-Apr-20 A	29-Apr-20 A			30-Dec-19	11-Feb-20	0	24	\$3,534.36	B
S151600	003	Procure TPC Gas System mass flow meters M&S	55	100%	13-Apr-20 A	30-Jun-20 A			30-Dec-19	11-Feb-20	6831	0	\$7,773.17	A-TEC
S151700		Procure TPC Gas System Analyzers (2 for redundancy) - Provide Requiremen	5	100%	13-Apr-20 A	17-Apr-20 A			30-Dec-19	06-Jan-20	0	24	\$3,534.36	B
S151800		Procure TPC Gas System Equipment - Prepare & Send Solicitation	8	100%	20-Apr-20 A	30-Apr-20 A			07-Jan-20	19-Feb-20	0	0	\$0.00	
S151900		Procure TPC Gas System Equipment - Vendor Responses	20	100%	02-Apr-20 A	30-Apr-20 A			20-Feb-20	04-Mar-20	0	0	\$0.00	
S152000		Procure TPC Gas System Equipment - Vendor Selection	20	100%	02-Apr-20 A	30-Apr-20 A			05-Mar-20	01-Apr-20	0	0	\$0.00	
S152100		Procure TPC Gas System Equipment - Contract Award(s)	0	100%	02-Apr-20 A				02-Apr-20		0	0	\$0.00	A-TEC
S152200		Procure TPC Gas System Equipment - Contract/PO - Leadtime	246	100%	02-Apr-20 A	29-Mar-21 A			02-Apr-20	13-May-20	0	0	\$0.00	
S152300	003	Procure TPC Gas System Equipment - Contract/PO - Delivery Acceptance	262	100%	12-Jan-21 A	31-Jan-22 A			14-May-20	20-May-20	33035	0	\$38,343.21	A-TEC
S152400		Procure TPC Gas System scrubbers Labor	12	100%	13-Apr-20 A	29-Apr-20 A			30-Dec-19	11-Feb-20	0	24	\$3,534.36	B
S152500	003	Procure TPC Gas System scrubbers M&S	240	100%	13-Apr-20 A	30-Mar-21 A			30-Dec-19	11-Feb-20	7727	0	\$8,792.75	A-TEC
S152600		Procure TPC Gas System oxygen and water sensors Labor	12	100%	13-Apr-20 A	29-Apr-20 A			30-Dec-19	11-Feb-20	0	24	\$3,534.36	B
S152700	003	Procure TPC Gas System oxygen and water sensors M&S	140	100%	13-Apr-20 A	30-Oct-20 A			30-Dec-19	11-Feb-20	11164	0	\$12,703.80	A-TEC
S152800	029B	Assemble TPC Gas System controls	135	100%	22-Mar-21 A	30-Sep-21 A			21-May-20	14-Aug-20	0	0	\$0.00	B_T
S152900	029B	Set up TPC Gas System computer control Labor	140	100%	15-Mar-21 A	30-Sep-21 A			17-Aug-20	05-Oct-20	0	0	\$0.00	B_T
S153000	003	Procure TPC Gas System Computer Controller M&S	2	100%	24-Feb-22 A	28-Feb-22 A			17-Aug-20	05-Oct-20	18401	0	\$21,784.91	A-TEC
S153100		Procure TPC Gas System Components for Installation - Provide Requirements	13	100%	11-Mar-21 A	30-Mar-21 A			17-Aug-20	21-Aug-20	0	64	\$8,342.22	B
S153200		Procure TPC Gas System Components for Installation - Prepare & Send Solic	13	100%	11-Mar-21 A	30-Mar-21 A			24-Aug-20	05-Oct-20	0	0	\$0.00	
S153300		Procure TPC Gas System Components for Installation - Vendor Responses	13	100%	11-Mar-21 A	30-Mar-21 A			06-Oct-20	20-Oct-20	0	0	\$0.00	
S153400		Procure TPC Gas System Components for Installation - Vendor Selection	13	100%	11-Mar-21 A	30-Mar-21 A			21-Oct-20	18-Nov-20	0	0	\$0.00	
S153500		Procure TPC Gas System Components for Installation - Contract Award(s)	0	100%	11-Mar-21 A				19-Nov-20		0	0	\$0.00	A-TEC
S153600		Procure TPC Gas System Components for Installation - Contract/PO - Leadtir	13	100%	11-Mar-21 A	30-Mar-21 A			19-Nov-20	05-Jan-21	0	0	\$0.00	
S153700	003	Procure TPC Gas System Components for Installation - Delivery Acceptance	308	100%	08-Mar-21 A	27-May-22 A			06-Jan-21	12-Jan-21	34086	0	\$40,354.35	A-TEC
S153800	029B	Assemble and Plumb TPC Gas System	135	100%	16-Mar-21 A	24-Sep-21 A			06-Jan-21	18-Feb-21	0	0	\$0.00	B
S153900	029B	Install and Test TPC Gas System Interlocks	3	100%	27-Sep-21 A	30-Sep-21 A			19-Feb-21	25-Feb-21	0	0	\$0.00	B
S154000		TPC Gas System Complete	0	100%		30-Sep-21 A				25-Feb-21	0	0	\$0.00	
POM02.01.02.07.03 TPC Cooling System			507		12-Sep-19 A	21-Sep-21 A			24-Jul-19	15-Dec-20	117963	1724	\$274,548.61	
OBLG1548		Procure TPC Cooling System Equipment - Obligation	2	100%	01-Jun-21 A	03-Jun-21 A			05-Mar-20	05-Mar-20	51464	0	\$51,464.00	A-TEC
S154100		Design TPC Cooling System	273	100%	12-Sep-19 A	14-Oct-20 A			24-Jul-19	15-Nov-19	0	1492	\$114,993.69	B_T
S154101	004	Final Design Review - TPC Cooling System	1	100%	28-Aug-20 A	31-Aug-20 A			15-Nov-19	15-Nov-19	0	8	\$1,277.48	B
S154200		TPC Cooling System Safety Review	1	100%	15-Oct-20 A	15-Oct-20 A			18-Nov-19	18-Nov-19	0	8	\$1,315.81	B
S154300	004	Procurement Readiness Review - TPC Cooling System	1	100%	23-Oct-20 A	23-Oct-20 A			26-Nov-19	26-Nov-19	0	8	\$1,315.81	B
S154400		Procure TPC Cooling System equipment (pumps, heat exchanger, PH control,	92	100%	17-Nov-20 A	02-Apr-21 A			27-Nov-19	05-Dec-19	0	96	\$12,922.98	B
S154500		Procure TPC Cooling System Equipment - Prepare & Send Solicitation	41	100%	03-Feb-21 A	02-Apr-21 A			06-Dec-19	21-Jan-20	0	0	\$0.00	
S154600		Procure TPC Cooling System Equipment - Vendor Responses	11	100%	18-Mar-21 A	02-Apr-21 A			22-Jan-20	04-Feb-20	0	0	\$0.00	
S154700		Procure TPC Cooling System Equipment - Vendor Selection	19	100%	08-Mar-21 A	02-Apr-21 A			05-Feb-20	04-Mar-20	0	0	\$0.00	
S154800		Procure TPC Cooling System Equipment - Contract Award(s)	0	100%	02-Apr-21 A				05-Mar-20		0	0	\$0.00	A-TEC
S154900		Procure TPC Cooling System Equipment - Contract/PO - Leadtime	22	100%	29-Apr-21 A	31-May-21 A			05-Mar-20	28-May-20	0	0	\$0.00	
S155000		Procure TPC Cooling System Equipment - Delivery Acceptance	74	100%	15-Feb-21 A	31-May-21 A			29-May-20	04-Jun-20	44339	0	\$51,463.58	A-TEC
S155100		Install TPC Cooling System pumps	3	100%	06-Sep-21 A	10-Sep-21 A			05-Jun-20	09-Jun-20	0	24	\$2,905.73	B
S155200		Install TPC Cooling System heat exchanger	3	100%	06-Sep-21 A	10-Sep-21 A			10-Jun-20	12-Jun-20	0	24	\$2,905.73	B
S155300		Install TPC Cooling System PH control	3	100%	06-Sep-21 A	10-Sep-21 A			15-Jun-20	17-Jun-20	0	24	\$2,905.73	B
S155400	029B	Install TPC Cooling System end cap manifolds	3	100%	06-Sep-21 A	10-Sep-21 A			18-Jun-20	01-Jul-20	0	0	\$0.00	B

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S155500	029B	Install TPC Cooling System tanks	6	100%	13-Sep-21 A	21-Sep-21 A			02-Jul-20	07-Jul-20	0	0	\$0.00	B
S155600	029B	Install TPC Cooling System plumbing Labor	6	100%	13-Sep-21 A	21-Sep-21 A			08-Jul-20	07-Oct-20	0	0	\$0.00	B
S155700		Procure TPC Plumbing - Contract/PO M&S	6	100%	13-Sep-21 A	21-Sep-21 A			08-Oct-20	01-Dec-20	11667	0	\$13,812.54	A-TEC
S155800		Set up TPC Cooling System computer controls Labor	10	100%	15-Jul-21 A	29-Jul-21 A			02-Dec-20	08-Dec-20	0	40	\$4,842.89	B
S155900		Set up TPC Cooling System computer controls M&S	11	100%	15-Jul-21 A	30-Jul-21 A			02-Dec-20	08-Dec-20	10493	0	\$12,422.64	A-TEC
S156000	029B	Set up and Test TPC Cooling System & Interlocks	6	100%	13-Sep-21 A	21-Sep-21 A			09-Dec-20	15-Dec-20	0	0	\$0.00	B
S156100		TPC Cooling System Complete	0	100%		21-Sep-21 A				15-Dec-20	0	0	\$0.00	
POM02.01.03 EMCal			1418		01-Feb-17 A	30-Sep-22 A			01-Feb-17	30-Sep-22	7278875	69607	\$13,750,654.29	
S1001879	003	Actuals - Nonlabor - sPHENIX EMCal FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	73248	0	\$80,811.96	A-TEC
S156200	003	Actuals - Labor - sPHENIX EMCal FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	980	\$163,722.63	B
S156300	003	Actuals - Labor - sPHENIX EMCal FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	2869	\$479,464.70	B
S156310	003	Actuals - Labor - sPHENIX EMCal FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	2337	\$390,502.77	B
S156400	003	Actuals - Nonlabor - sPHENIX EMCal FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	40977	0	\$45,714.00	A-OPC
S156500	003	Actuals - Nonlabor - sPHENIX EMCal FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	415271	0	\$463,282.35	A-OPC
S156510	003	Actuals - Nonlabor - sPHENIX EMCal FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	634129	0	\$699,611.97	A-OPC
POM02.01.03.01 EMCAL Block Fabrication			1268		31-Mar-17 A	27-Apr-22 A			31-Mar-17	30-Sep-22	4436363	19647	\$5,390,772.96	
POM02.01.03.01.01 EMCAL Prototype V2.1 Block Production			128		13-Apr-17 A	16-Oct-17 A			13-Apr-17	16-Oct-17	0	0	\$0.00	
S156600		Order screens for v2.1 prototype	24	100%	13-Apr-17 A	17-May-17 A			13-Apr-17	17-May-17	0	0	\$0.00	
S156700		Order screens for v2.1 prototype	24	100%	13-Apr-17 A	17-May-17 A			13-Apr-17	17-May-17	0	0	\$0.00	
S156800		Fabricate molds for v2.1 prototype	19	100%	18-May-17 A	15-Jun-17 A			18-May-17	15-Jun-17	0	0	\$0.00	
S156900		Fabricate blocks for v2.1 prototype	78	100%	16-Jun-17 A	06-Oct-17 A			16-Jun-17	06-Oct-17	0	0	\$0.00	
S157000		Ship v2.1 blocks 1-16 to BNL	4	100%	10-Oct-17 A	16-Oct-17 A			10-Oct-17	16-Oct-17	0	0	\$0.00	
POM02.01.03.01.02 EMCAL Preproduction Prototype Block Production			890		31-Mar-17 A	19-Oct-20 A			31-Mar-17	21-May-20	265619	2876	\$425,617.17	
POM02.01.03.01.02.01 Order Material for preproduction prototype Sector 0			285		31-Mar-17 A	20-May-18 A			31-Mar-17	20-May-18	0	0	\$0.00	
S157100		Order W powder preproduction prototype Sector 0 Labor	39	100%	09-Jun-17 A	04-Aug-17 A			09-Jun-17	04-Aug-17	0	0	\$0.00	
S157200		Order W powder preproduction prototype Sector 0 M&S	39	100%	09-Jun-17 A	04-Aug-17 A			09-Jun-17	04-Aug-17	0	0	\$0.00	
S157300		Order fibers preproduction prototype Sector 0	89	100%	06-Apr-17 A	11-Aug-17 A			06-Apr-17	11-Aug-17	0	0	\$0.00	
S157400		Order fibers preproduction prototype Sector 0	89	100%	06-Apr-17 A	11-Aug-17 A			06-Apr-17	11-Aug-17	0	0	\$0.00	
S157500		Order screens for preproduction prototype Sector 0	134	100%	20-Apr-17 A	31-Oct-17 A			20-Apr-17	31-Oct-17	0	0	\$0.00	
S157600		Order screens for preproduction prototype Sector 0	134	100%	20-Apr-17 A	31-Oct-17 A			20-Apr-17	31-Oct-17	0	0	\$0.00	
S157700		Order epoxy for preproduction prototype Sector 0	19	100%	24-Jul-17 A	18-Aug-17 A			24-Jul-17	18-Aug-17	0	0	\$0.00	
S157800		Order epoxy for preproduction prototype Sector 0	19	100%	24-Jul-17 A	18-Aug-17 A			24-Jul-17	18-Aug-17	0	0	\$0.00	
S157900		Order parts and fabricate molds for preproduction prototype Sector 0 M&S	19	100%	24-Jul-17 A	18-Aug-17 A			24-Jul-17	18-Aug-17	0	0	\$0.00	
S158000		Order parts and fabricate molds for preproduction prototype Sector 0 Labor	19	100%	24-Jul-17 A	18-Aug-17 A			24-Jul-17	18-Aug-17	0	0	\$0.00	
S158100		Set up factory for preproduction prototype Sector 0	89	100%	31-Mar-17 A	07-Aug-17 A			31-Mar-17	07-Aug-17	0	0	\$0.00	
S158200		Prepare fiber assemblies for preproduction prototype Sector 0	44	100%	20-Mar-18 A	20-May-18 A			20-Mar-18	20-May-18	0	0	\$0.00	
S158201	004	Preliminary Design Review - EMCal Blocks	0	100%		20-Mar-18 A				20-Mar-18	0	0	\$0.00	
POM02.01.03.01.02.02 Fabricate blocks for preproduction prototype Sector 0			216		21-Jun-18 A	03-May-19 A			21-Jun-18	03-May-19	0	0	\$0.00	
S158300		Fabricate & test batch No. 1 of 8 batches of 12 blocks for preproduction prototy	63	100%	21-Jun-18 A	20-Sep-18 A			21-Jun-18	20-Sep-18	0	0	\$0.00	
S158400		Fabricate & test batch No. 2 of 8 batches of 12 blocks for preproduction prototy	26	100%	22-Aug-18 A	28-Sep-18 A			22-Aug-18	28-Sep-18	0	0	\$0.00	
S158500	003	Fabricate & test batch No. 2 of 8 batches of 12 blocks for preproduction prototy	32	100%	01-Oct-18 A	16-Nov-18 A			01-Oct-18	16-Nov-18	0	0	\$0.00	A-OPC
S158600	003	Fabricate & test batch No. 3 of 8 batches of 12 blocks for preproduction prototy	23	100%	15-Oct-18 A	16-Nov-18 A			15-Oct-18	16-Nov-18	0	0	\$0.00	A-OPC
S158700	003	Fabricate & test batch No. 4 of 8 batches of 12 blocks for preproduction prototy	80	100%	08-Nov-18 A	08-Mar-19 A			08-Nov-18	08-Mar-19	0	0	\$0.00	A-OPC
S158800	003	Fabricate & test batch No. 5 of 8 batches of 12 blocks for preproduction prototy	56	100%	16-Nov-18 A	11-Feb-19 A			16-Nov-18	11-Feb-19	0	0	\$0.00	A-OPC
S158900	003	Fabricate & test batch No. 6 of 8 batches of 12 blocks for preproduction prototy	15	100%	20-Mar-19 A	10-Apr-19 A			20-Mar-19	10-Apr-19	0	0	\$0.00	A-OPC

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S159000	003	Fabricate & test batch No. 7 of 8 batches of 12 blocks for preproduction prototy	27	100%	27-Mar-19 A	03-May-19 A			27-Mar-19	03-May-19	0	0	\$0.00	A-OPC
S159100	003	Fabricate & test batch No. 8 of 8 batches of 12 blocks for preproduction prototy	22	100%	03-Apr-19 A	03-May-19 A			03-Apr-19	03-May-19	0	0	\$0.00	A-OPC
POM02.01.03.01.02.03 Pack and ship preproduction blocks to BNL Sector 0			145		02-Oct-18 A	03-May-19 A			02-Oct-18	03-May-19	0	0	\$0.00	
S159200	003	Ship batch No. 1 of 8 batches of 12 preproduction prototype blocks for Sector (	4	100%	02-Oct-18 A	09-Oct-18 A			02-Oct-18	09-Oct-18	0	0	\$0.00	A-OPC
S159300	003	Ship batch No. 1 of 8 batches of 12 preproduction prototype blocks for Sector (	4	100%	02-Oct-18 A	09-Oct-18 A			02-Oct-18	09-Oct-18	0	0	\$0.00	A-OPC
S159400	003	Ship batch No. 2 of 8 batches of 12 preproduction prototype blocks for Sector (	4	100%	15-Oct-18 A	19-Oct-18 A			15-Oct-18	19-Oct-18	0	0	\$0.00	A-OPC
S159500	003	Ship batch No. 2 of 8 batches of 12 preproduction prototype blocks for Sector (	4	100%	15-Oct-18 A	19-Oct-18 A			15-Oct-18	19-Oct-18	0	0	\$0.00	A-OPC
S159600	003	Ship batch No. 3 of 8 batches of 12 preproduction prototype blocks for Sector (	4	100%	22-Oct-18 A	26-Oct-18 A			22-Oct-18	26-Oct-18	0	0	\$0.00	A-OPC
S159700	003	Ship batch No. 3 of 8 batches of 12 preproduction prototype blocks for Sector (	4	100%	22-Oct-18 A	26-Oct-18 A			22-Oct-18	26-Oct-18	0	0	\$0.00	A-OPC
S159800	003	Ship batch No. 4 of 8 batches of 12 preproduction prototype blocks for Sector (	14	100%	11-Mar-19 A	29-Mar-19 A			11-Mar-19	29-Mar-19	0	0	\$0.00	A-OPC
S159900	003	Ship batch No. 4 of 8 batches of 12 preproduction prototype blocks for Sector (	14	100%	11-Mar-19 A	29-Mar-19 A			11-Mar-19	29-Mar-19	0	0	\$0.00	A-OPC
S160000	003	Ship batch No. 5 of 8 batches of 12 preproduction prototype blocks for Sector (	15	100%	20-Mar-19 A	10-Apr-19 A			20-Mar-19	10-Apr-19	0	0	\$0.00	A-OPC
S160100	003	Ship batch No. 5 of 8 batches of 12 preproduction prototype blocks for Sector (	15	100%	20-Mar-19 A	10-Apr-19 A			20-Mar-19	10-Apr-19	0	0	\$0.00	A-OPC
S160200	003	Ship batch No. 6 of 8 batches of 12 preproduction prototype blocks for Sector (	10	100%	27-Mar-19 A	10-Apr-19 A			27-Mar-19	10-Apr-19	0	0	\$0.00	A-OPC
S160300	003	Ship batch No. 6 of 8 batches of 12 preproduction prototype blocks for Sector (	10	100%	27-Mar-19 A	10-Apr-19 A			27-Mar-19	10-Apr-19	0	0	\$0.00	A-OPC
S160400	003	Ship batch No. 7 of 8 batches of 12 preproduction prototype blocks for Sector (	22	100%	03-Apr-19 A	03-May-19 A			03-Apr-19	03-May-19	0	0	\$0.00	A-OPC
S160500	003	Ship batch No. 7 of 8 batches of 12 preproduction prototype blocks for Sector (	22	100%	03-Apr-19 A	03-May-19 A			03-Apr-19	03-May-19	0	0	\$0.00	A-OPC
S160600	003	Ship batch No. 8 of 8 batches of 12 preproduction prototype blocks for Sector (	14	100%	15-Apr-19 A	03-May-19 A			15-Apr-19	03-May-19	0	0	\$0.00	A-OPC
S160700	003	Ship batch No. 8 of 8 batches of 12 preproduction prototype blocks for Sector (	14	100%	15-Apr-19 A	03-May-19 A			15-Apr-19	03-May-19	0	0	\$0.00	A-OPC
POM02.01.03.01.02.04 Order Material for EMCAL Block Preproduction			569		18-Dec-17 A	30-Mar-20 A			18-Dec-17	30-Sep-19	252659	662	\$289,754.20	
OBLG1614	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Obligation	0	100%	09-Oct-18 A	09-Oct-18 A			09-Oct-18	09-Oct-18	0	0	\$0.00	A-OPC
OBLG1624	003	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Obligation 2nd batch F	0	100%	23-May-18 A	23-May-18 A			23-May-18	23-May-18	0	0	\$0.00	A-OPC
OBLG1624	003	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Obligation 3rd batch F	0	100%	23-May-18 A	23-May-18 A			23-May-18	23-May-18	0	0	\$0.00	A-OPC
OBLG1624	003	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Obligation 4th batch	0	100%	23-May-18 A	23-May-18 A			23-May-18	23-May-18	0	0	\$0.00	A-OPC
OBLG1634	003	Order screens for EMCAL Prepro Sectors 1-12 Blocks - Obligation	0	100%	28-Aug-18 A	28-Aug-18 A			28-Aug-18	28-Aug-18	0	0	\$0.00	A-OPC
OBLG1644	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Obligation	0	100%	01-Oct-18 A	01-Oct-18 A			01-Oct-18	01-Oct-18	0	0	\$0.00	A-OPC
OBLG1654	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Obligation	0	100%	23-Jul-18 A	23-Jul-18 A			23-Jul-18	23-Jul-18	0	0	\$0.00	A-OPC
S160800		Establish contract for EMCAL Prepro Sectors 1-12 blocks with UIUC	118	100%	18-Dec-17 A	07-Jun-18 A			18-Dec-17	07-Jun-18	0	0	\$0.00	
S160900	004	Final Design Review - EMCAL Blocks, Procurement Readiness Review - EMC	0	100%	28-Aug-18 A				28-Aug-18		0	0	\$0.00	
S161000	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Provide Requirem	0	100%	31-Aug-18 A	31-Aug-18 A			31-Aug-18	31-Aug-18	0	0	\$0.00	
S161100	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Prepare & Send S	0	100%	04-Sep-18 A	04-Sep-18 A			04-Sep-18	04-Sep-18	0	0	\$0.00	
S161200	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Vendor Response	0	100%	05-Sep-18 A	05-Sep-18 A			05-Sep-18	05-Sep-18	0	0	\$0.00	
S161300	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Vendor Selection	0	100%	05-Sep-18 A	05-Sep-18 A			05-Sep-18	05-Sep-18	0	0	\$0.00	
S161400	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Contract Award	0	100%	09-Oct-18 A				09-Oct-18		0	0	\$0.00	A-OPC
S161500	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Lead Time	8	100%	09-Oct-18 A	19-Oct-18 A			09-Oct-18	19-Oct-18	0	0	\$0.00	
S161600	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Delivery acceptan	1	100%	22-Oct-18 A	23-Oct-18 A			22-Oct-18	23-Oct-18	0	0	\$0.00	A-OPC
S161700	003	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Delivery acceptan	20	100%	03-Sep-19 A	30-Sep-19 A			03-Jun-19	26-Jul-19	219420	0	\$242,078.42	A-OPC
S161800	004	Procurement Readiness Review - EMCAL - Scintillating Fibers (LLP)	0	100%	30-Apr-18 A	30-Apr-18 A			30-Apr-18	30-Apr-18	0	0	\$0.00	
S161900		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Provide Requirements	0	100%	01-May-18 A	01-May-18 A			01-May-18	01-May-18	0	0	\$0.00	
S162000		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Prepare & Send Solici	0	100%	08-May-18 A	08-May-18 A			08-May-18	08-May-18	0	0	\$0.00	
S162100		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Vendor Responses	0	100%	08-May-18 A	08-May-18 A			08-May-18	08-May-18	0	0	\$0.00	
S162200		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Vendor Selection	0	100%	21-May-18 A	21-May-18 A			21-May-18	21-May-18	0	0	\$0.00	
S162300		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 1st ba	0	100%	23-May-18 A				23-May-18		0	0	\$0.00	A-OPC
S162400		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 2nd ba	0	100%	23-May-18 A				23-May-18		0	0	\$0.00	A-OPC
S162500		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 3rd ba	0	100%	23-May-18 A				23-May-18		0	0	\$0.00	A-OPC

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S162600		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 4th ba	0	100%	23-May-18 A				23-May-18		0	0	\$0.00	A-OPC
S162700		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Lead Time	29	100%	03-Jul-18 A	14-Aug-18 A			03-Jul-18	14-Aug-18	0	0	\$0.00	
S162800		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Delivery acceptance 1	9	100%	15-Aug-18 A	28-Aug-18 A			15-Aug-18	28-Aug-18	0	0	\$0.00	
S162900		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Delivery acceptance 2	21	100%	29-Aug-18 A	28-Sep-18 A			29-Aug-18	28-Sep-18	0	0	\$0.00	
S163000		Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Delivery acceptance 3	8	100%	01-Oct-18 A	12-Oct-18 A			01-Oct-18	12-Oct-18	0	0	\$0.00	A-OPC
S163100	003	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Delivery acceptance 4	26	100%	15-Oct-18 A	21-Nov-18 A			15-Oct-18	21-Nov-18	0	0	\$0.00	A-OPC
S163200	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Provide Requi	38	100%	12-Apr-18 A	06-Jun-18 A			12-Apr-18	06-Jun-18	0	0	\$0.00	
S163300	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Prepare & Ser	38	100%	19-Apr-18 A	13-Jun-18 A			19-Apr-18	13-Jun-18	0	0	\$0.00	
S163400	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Vendor Respo	38	100%	26-Apr-18 A	20-Jun-18 A			26-Apr-18	20-Jun-18	0	0	\$0.00	
S163500	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Vendor Selecti	4	100%	01-Oct-18 A	05-Oct-18 A			01-Oct-18	05-Oct-18	0	0	\$0.00	
S163600	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Contract Awarr	0	100%	28-Aug-18 A				28-Aug-18		0	0	\$0.00	A-OPC
S163800	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Lead Time FY	21	100%	29-Aug-18 A	28-Sep-18 A			29-Aug-18	28-Sep-18	0	0	\$0.00	
S163900	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Lead Time FY	9	100%	01-Oct-18 A	15-Oct-18 A			01-Oct-18	15-Oct-18	0	0	\$0.00	
S164000	003	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Delivery accep	118	100%	16-Oct-18 A	09-Apr-19 A			16-Oct-18	09-Apr-19	0	0	\$0.00	A-OPC
S164100	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Provide Requirements to	4	100%	12-Apr-18 A	18-Apr-18 A			12-Apr-18	18-Apr-18	0	0	\$0.00	
S164200	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Prepare & Send Solicitat	4	100%	19-Apr-18 A	25-Apr-18 A			19-Apr-18	25-Apr-18	0	0	\$0.00	
S164300	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Vendor Responses	4	100%	26-Apr-18 A	02-May-18 A			26-Apr-18	02-May-18	0	0	\$0.00	
S164400	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Vendor Selection	4	100%	03-May-18 A	09-May-18 A			03-May-18	09-May-18	0	0	\$0.00	
S164500	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Contract Award	0	100%	01-Oct-18 A				01-Oct-18		0	0	\$0.00	A-OPC
S164600	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Lead Time	19	100%	01-Oct-18 A	29-Oct-18 A			01-Oct-18	29-Oct-18	0	0	\$0.00	
S164700	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Delivery acceptance	145	100%	30-Oct-18 A	31-May-19 A			30-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S164702	003	Order epoxy for EMCAL Prepro Sectors 1-12 Blocks - Delivery acceptance Split	185	100%	01-Jul-19 A	30-Mar-20 A			03-Jun-19	30-Sep-19	33239	0	\$36,671.43	A-OPC
S164800	003	Order parts and fabricate molds for EMCAL Prepro Sectors 1-12 Blocks M&S	19	100%	01-Oct-18 A	29-Oct-18 A			01-Oct-18	29-Oct-18	0	0	\$0.00	A-OPC
S164900		Order parts and fabricate molds for EMCAL Prepro Sectors 1-12 Blocks Purcha	19	100%	01-Oct-18 A	29-Oct-18 A			01-Oct-18	29-Oct-18	0	0	\$0.00	
S165000	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Provide Requirements 1	48	100%	12-Apr-18 A	20-Jun-18 A			12-Apr-18	20-Jun-18	0	0	\$0.00	
S165100	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Prepare & Send Solicit	4	100%	25-Jun-18 A	29-Jun-18 A			25-Jun-18	29-Jun-18	0	0	\$0.00	
S165200	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Vendor Responses	3	100%	02-Jul-18 A	06-Jul-18 A			02-Jul-18	06-Jul-18	0	0	\$0.00	
S165300	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Vendor Selection	4	100%	16-Jul-18 A	20-Jul-18 A			16-Jul-18	20-Jul-18	0	0	\$0.00	
S165400	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Contract Award(s)	0	100%	23-Jul-18 A				23-Jul-18		0	0	\$0.00	A-OPC
S165500	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Contract/PO - Leadtime	48	100%	23-Jul-18 A	28-Sep-18 A			23-Jul-18	28-Sep-18	0	0	\$0.00	
S165600	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Contract/PO - Leadtime	111	100%	01-Oct-18 A	15-Mar-19 A			01-Oct-18	15-Mar-19	0	0	\$0.00	
S165700	003	Set up factory for EMCAL Prepro Sectors 1-12 Blocks - Delivery Acceptance	39	100%	02-Jan-19 A	28-Feb-19 A			02-Jan-19	28-Feb-19	0	0	\$0.00	A-OPC
S165800	003	Prepare fiber assemblies for EMCAL Prepro Sectors 1-12 Blocks	145	100%	30-Oct-18 A	31-May-19 A			30-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S165802	003	Prepare fiber assemblies for EMCAL Prepro Sectors 1-12 Blocks Split	19	100%	03-Jun-19 A	28-Jun-19 A			03-Jun-19	16-Aug-19	0	662	\$11,004.36	A-OPC
POM02.01.03.01.02.05 Fabricate EMCAL Prepro blocks Sectors 1-12			386		01-Apr-19 A	09-Oct-20 A			01-Apr-19	14-May-20	0	1974	\$110,694.86	
S165900	003,005	Fabricate EMCAL Prepro blocks sector 1	43	100%	01-Apr-19 A	31-May-19 A			01-Apr-19	31-May-19	0	0	\$0.00	A-OPC
S165902	003,005	Fabricate EMCAL Prepro blocks sector 1 Split	63	100%	01-Jul-19 A	30-Sep-19 A			01-Oct-19	13-Nov-19	0	126	\$6,820.39	A-OPC
S166000	003,004	Fabricate EMCAL Prepro blocks sector 2	60	100%	01-Oct-19 A	31-Dec-19 A			01-Oct-19	05-Nov-19	0	168	\$9,425.14	A-OPC
S166100	003,004	Fabricate EMCAL Prepro blocks sector 3	28	100%	19-Dec-19 A	31-Jan-20 A			06-Nov-19	13-Dec-19	0	168	\$9,425.14	A-OPC
S166200	003,004	Fabricate EMCAL Prepro blocks sector 4	22	100%	03-Feb-20 A	04-Mar-20 A			16-Dec-19	07-Jan-20	0	168	\$9,425.14	A-OPC
S166300	003,004	Fabricate EMCAL Prepro blocks sector 5	61	100%	05-Mar-20 A	29-May-20 A			08-Jan-20	29-Jan-20	0	168	\$9,425.14	A-OPC
S166400	003,004	Fabricate EMCAL Prepro blocks sector 6	30	100%	06-May-20 A	17-Jun-20 A			30-Jan-20	20-Feb-20	0	168	\$9,425.14	A-OPC
S166500	003,004	Fabricate EMCAL Prepro blocks sector 7	10	100%	01-Jul-20 A	15-Jul-20 A			21-Feb-20	05-Mar-20	0	168	\$9,425.14	A-OPC
S166600	003,004	Fabricate EMCAL Prepro blocks sector 8	10	100%	16-Jul-20 A	29-Jul-20 A			06-Mar-20	19-Mar-20	0	168	\$9,425.14	A-OPC
S166700	003,004	Fabricate EMCAL Prepro blocks sector 9	12	100%	30-Jul-20 A	14-Aug-20 A			20-Mar-20	02-Apr-20	0	168	\$9,425.14	A-OPC

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source	
S166800	003,004	Fabricate EMCAL Prepro blocks sector 10	19	100%	17-Aug-20 A	11-Sep-20 A			03-Apr-20	16-Apr-20	0	168	\$9,425.14	A-OPC	
S166900	003,004	Fabricate EMCAL Prepro blocks sector 11	10	100%	14-Sep-20 A	25-Sep-20 A			17-Apr-20	30-Apr-20	0	168	\$9,425.14	A-OPC	
S167000	003,004	Fabricate EMCAL Prepro blocks sector 12	10	100%	28-Sep-20 A	09-Oct-20 A			01-May-20	14-May-20	0	168	\$9,623.07	A-OPC	
POM02.01.03.01.02.06 Pack and ship EMCAL Blocks for Prepro Sectors 1-12 to BNL			327		01-Jul-19 A	19-Oct-20 A			06-Nov-19	21-May-20	12960	240	\$25,168.11		
S167100	003	Pack and ship EMCAL blocks for Prepro sector 1 to BNL Purchased Services	104	100%	01-Jul-19 A	29-Nov-19 A			14-Nov-19	20-Nov-19	0	20	\$831.42	A-OPC	
S167200	003	Pack and ship EMCAL blocks for Prepro sector 1 to BNL M&S	104	100%	01-Jul-19 A	29-Nov-19 A			14-Nov-19	20-Nov-19	1080	0	\$1,191.53	A-OPC	
S167300	003	Pack and ship EMCAL blocks for Prepro sector 2 to BNL Purchased Services	31	100%	11-Dec-19 A	28-Jan-20 A			06-Nov-19	13-Nov-19	0	20	\$865.95	A-OPC	
S167400	003	Pack and ship EMCAL blocks for Prepro sector 2 to BNL M&S	31	100%	11-Dec-19 A	28-Jan-20 A			06-Nov-19	13-Nov-19	1080	0	\$1,228.96	A-OPC	
S167500	003	Pack and ship EMCAL blocks for Prepro sector 3 to BNL Purchased Services	5	100%	03-Feb-20 A	07-Feb-20 A			16-Dec-19	20-Dec-19	0	20	\$865.95	A-OPC	
S167600	003	Pack and ship EMCAL blocks for Prepro sector 3 to BNL M&S	5	100%	03-Feb-20 A	07-Feb-20 A			16-Dec-19	20-Dec-19	1080	0	\$1,228.96	A-OPC	
S167700	003	Pack and ship EMCAL blocks for Prepro sector 4 to BNL Purchased Services	5	100%	01-May-20 A	07-May-20 A			08-Jan-20	14-Jan-20	0	20	\$865.95	A-OPC	
S167800	003	Pack and ship EMCAL blocks for Prepro sector 4 to BNL M&S	5	100%	01-May-20 A	07-May-20 A			08-Jan-20	14-Jan-20	1080	0	\$1,228.96	A-OPC	
S167900	003	Pack and ship EMCAL blocks for Prepro sector 5 to BNL Purchased Services	5	100%	01-Jun-20 A	05-Jun-20 A			30-Jan-20	05-Feb-20	0	20	\$865.95	A-OPC	
S168000	003	Pack and ship EMCAL blocks for Prepro sector 5 to BNL M&S	5	100%	01-Jun-20 A	05-Jun-20 A			30-Jan-20	05-Feb-20	1080	0	\$1,228.96	A-OPC	
S168100	003	Pack and ship EMCAL blocks for Prepro sector 6 to BNL Purchased Services	5	100%	01-Jul-20 A	08-Jul-20 A			21-Feb-20	27-Feb-20	0	20	\$865.95	A-OPC	
S168200	003	Pack and ship EMCAL blocks for Prepro sector 6 to BNL M&S	5	100%	01-Jul-20 A	08-Jul-20 A			21-Feb-20	27-Feb-20	1080	0	\$1,228.96	A-OPC	
S168300	003	Pack and ship EMCAL blocks for Prepro sector 7 to BNL Purchased Services	5	100%	16-Jul-20 A	22-Jul-20 A			06-Mar-20	12-Mar-20	0	20	\$865.95	A-OPC	
S168400	003	Pack and ship EMCAL blocks for Prepro sector 7 to BNL M&S	5	100%	16-Jul-20 A	22-Jul-20 A			06-Mar-20	12-Mar-20	1080	0	\$1,228.96	A-OPC	
S168500	003	Pack and ship EMCAL blocks for Prepro sector 8 to BNL Purchased Services	5	100%	03-Aug-20 A	07-Aug-20 A			20-Mar-20	26-Mar-20	0	20	\$865.95	A-OPC	
S168600	003	Pack and ship EMCAL blocks for Prepro sector 8 to BNL M&S	5	100%	03-Aug-20 A	07-Aug-20 A			20-Mar-20	26-Mar-20	1080	0	\$1,228.96	A-OPC	
S168700	003	Pack and ship EMCAL blocks for Prepro sector 9 to BNL Purchased Services	5	100%	01-Sep-20 A	08-Sep-20 A			03-Apr-20	09-Apr-20	0	20	\$865.95	A-OPC	
S168800	003	Pack and ship EMCAL blocks for Prepro sector 9 to BNL M&S	5	100%	01-Sep-20 A	08-Sep-20 A			03-Apr-20	09-Apr-20	1080	0	\$1,228.96	A-OPC	
S168900	003	Pack and ship EMCAL blocks for Prepro sector 10 to BNL Purchased Service	5	100%	14-Sep-20 A	18-Sep-20 A			17-Apr-20	23-Apr-20	0	20	\$865.95	A-OPC	
S169000	003	Pack and ship EMCAL blocks for Prepro sector 10 to BNL M&S	5	100%	14-Sep-20 A	18-Sep-20 A			17-Apr-20	23-Apr-20	1080	0	\$1,228.96	A-OPC	
S169100	003	Pack and ship EMCAL blocks for Prepro sector 11 to BNL Purchased Service	5	100%	01-Oct-20 A	07-Oct-20 A			01-May-20	07-May-20	0	20	\$891.93	A-OPC	
S169200	003	Pack and ship EMCAL blocks for Prepro sector 11 to BNL M&S	5	100%	01-Oct-20 A	07-Oct-20 A			01-May-20	07-May-20	1080	0	\$1,253.54	A-OPC	
S169300	003	Pack and ship EMCAL blocks for Prepro sector 12 to BNL Purchased Service	5	100%	13-Oct-20 A	19-Oct-20 A			15-May-20	21-May-20	0	20	\$891.93	A-OPC	
S169400	003	Pack and ship EMCAL blocks for Prepro sector 12 to BNL M&S	5	100%	13-Oct-20 A	19-Oct-20 A			15-May-20	21-May-20	1080	0	\$1,253.54	A-OPC	
POM02.01.03.01.03 EMCAL Final Block Production			891		01-Oct-18 A	27-Apr-22 A			01-Oct-18	30-Sep-22	2580511	16771	\$3,374,922.79		
POM02.01.03.01.03.01 Order Material for EMCAL Final Block Production			891		01-Oct-18 A	27-Apr-22 A			01-Oct-18	30-Sep-22	2538391	9485	\$3,038,361.52		
OBLG170		Procure EMCAL Fibers for Final Blocks- Obligation	20	100%	20-Dec-18 A	22-Jan-19 A			20-Dec-18	22-Jan-19	0	0	\$0.00	A-TEC	
OBLG171	003	Procure EMCAL Epoxy for Final Blocks- Obligation	1	100%	02-Jun-20 A	03-Jun-20 A			15-May-20	15-May-20	103156	0	\$103,156.39	A-TEC	
OBLG172	003	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			15-May-20	15-May-20	29848	0	\$29,847.79	A-TEC	
S169500	003	Establish EMCAL final blocks contract with UIUC	53	100%	12-Sep-19 A	29-Nov-19 A			24-Jul-19	20-Aug-19	0	10	\$1,099.15	A-TEC	
S169600	003	Procure EMCAL W Powder for Final Blocks - Provide Requirements to Procur	4	100%	01-Oct-18 A	05-Oct-18 A			01-Oct-18	05-Oct-18	0	0	\$0.00	A-OPC	
S169700		Procure EMCAL W Powder for Final Blocks - Prepare & Send Solicitation	3	100%	08-Oct-18 A	12-Oct-18 A			08-Oct-18	12-Oct-18	0	0	\$0.00		
S169800		Procure EMCAL W Powder for Final Blocks - Vendor Responses	9	100%	15-Oct-18 A	26-Oct-18 A			15-Oct-18	26-Oct-18	0	0	\$0.00		
S169900	003	Procure EMCAL W Powder for Final Blocks - Vendor Selection	2	100%	29-May-19 A	31-May-19 A			29-May-19	31-May-19	0	0	\$0.00		
S170000		Procure EMCAL W Powder for Final Blocks - Contract Award(s)	0	100%	31-May-19 A				31-May-19		0	0	\$0.00	A-TEC	
S170100		Procure EMCAL W Powder for Final Blocks - Contract/PO - Leadtime	104	100%	01-Jul-19 A	29-Nov-19 A			09-Dec-19	19-Mar-20	0	0	\$0.00	A-TEC	
S170200	003	Procure EMCAL W Powder for Final Blocks - Sectors 13-38 - Delivery Accept	18	100%	01-Nov-19 A	29-Nov-19 A			27-Mar-20	02-Apr-20	475410	0	\$540,981.30	A-TEC	
S170210	011	Procure EMCAL W Powder for Final Blocks - Sectors 39-64 - Delivery Accept	9	100%	15-Jun-20 A	26-Jun-20 A			15-Jun-20	19-Jun-20	475410	0	\$540,981.30	A-TEC	
S170300		EMCAL W Powder Acquisition Complete	0	100%		15-Jun-20 A				19-Jun-20	0	0	\$0.00		
S170400		Procure EMCAL Fibers for final Blocks - Provide Requirements to Procurement	4	100%	01-Oct-18 A	05-Oct-18 A			01-Oct-18	05-Oct-18	0	0	\$0.00		
S170500		Procure EMCAL Fibers for Final Blocks- Prepare & Send Solicitation	3	100%	08-Oct-18 A	12-Oct-18 A			08-Oct-18	12-Oct-18	0	0	\$0.00		

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S170600		Procure EMCAL Fibers for Final Blocks- Vendor Responses	4	100%	15-Oct-18 A	19-Oct-18 A			15-Oct-18	19-Oct-18	0	0	\$0.00	
S170700		Procure EMCAL Fibers for Final Blocks- Vendor Selection	4	100%	22-Oct-18 A	26-Oct-18 A			22-Oct-18	26-Oct-18	0	0	\$0.00	
S170800		Procure EMCAL Fibers for Final Blocks- Contract Award(s)	0	100%	21-Dec-18 A				21-Dec-18		0	0	\$0.00	A-TEC
S170900		Procure EMCAL Fibers for Final Blocks- Contract/PO - Leadtime	72	100%	02-Jan-19 A	15-Apr-19 A			02-Jan-19	15-Apr-19	0	0	\$0.00	A-TEC
S171000		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 1	8	100%	05-Apr-19 A	17-Apr-19 A			05-Apr-19	17-Apr-19	0	0	\$0.00	A-TEC
S171002		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 2	2	100%	01-May-19 A	03-May-19 A			01-May-19	03-May-19	0	0	\$0.00	A-TEC
S171003		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 3	11	100%	03-Jun-19 A	18-Jun-19 A			03-Jun-19	01-Jul-19	36624	0	\$40,405.98	A-TEC
S171004		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 4	7	100%	19-Jun-19 A	28-Jun-19 A			02-Jul-19	30-Jul-19	36624	0	\$40,405.98	A-TEC
S171005		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 5	14	100%	01-Aug-19 A	20-Aug-19 A			31-Jul-19	30-Aug-19	36624	0	\$40,405.98	A-TEC
S171006		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 6	20	100%	03-Sep-19 A	30-Sep-19 A			03-Sep-19	30-Sep-19	36624	0	\$40,405.98	A-TEC
S171007		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 7	21	100%	01-Oct-19 A	30-Oct-19 A			01-Oct-19	30-Oct-19	36624	0	\$40,858.23	A-TEC
S171008		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 8	10	100%	08-Nov-19 A	25-Nov-19 A			31-Oct-19	04-Dec-19	36624	0	\$40,858.23	A-TEC
S171009		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 9	11	100%	03-Dec-19 A	18-Dec-19 A			05-Dec-19	31-Dec-19	36624	0	\$40,858.23	A-TEC
S171010		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 10	21	100%	02-Jan-20 A	31-Jan-20 A			02-Jan-20	31-Jan-20	36624	0	\$40,858.23	A-TEC
S171011		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 11	18	100%	03-Feb-20 A	28-Feb-20 A			03-Feb-20	03-Mar-20	36624	0	\$40,858.23	A-TEC
S171012		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 12	19	100%	02-Mar-20 A	26-Mar-20 A			04-Mar-20	30-Mar-20	36624	0	\$40,858.23	A-TEC
S171013		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 13	7	100%	01-May-20 A	12-May-20 A			31-Mar-20	30-Apr-20	36624	0	\$40,858.23	A-TEC
S171014		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 14	9	100%	13-May-20 A	27-May-20 A			01-May-20	02-Jun-20	36624	0	\$40,858.23	A-TEC
S171015		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 15	20	100%	01-Jun-20 A	26-Jun-20 A			03-Jun-20	30-Jun-20	36624	0	\$40,858.23	A-TEC
S171016		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 16	21	100%	01-Jul-20 A	30-Jul-20 A			01-Jul-20	30-Jul-20	36624	0	\$40,858.23	A-TEC
S171017		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 17	20	100%	03-Aug-20 A	31-Aug-20 A			31-Jul-20	31-Aug-20	36624	0	\$40,858.23	A-TEC
S171018		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 18	21	100%	01-Sep-20 A	30-Sep-20 A			01-Sep-20	30-Sep-20	36624	0	\$40,858.23	A-TEC
S171019		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 19	21	100%	01-Oct-20 A	30-Oct-20 A			01-Oct-20	30-Oct-20	36624	0	\$40,858.23	A-TEC
S171020		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 20	17	100%	02-Nov-20 A	27-Nov-20 A			02-Nov-20	02-Dec-20	36624	0	\$40,858.23	A-TEC
S171021		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 21	10	100%	04-Jan-21 A	18-Jan-21 A			03-Dec-20	31-Dec-20	36624	0	\$40,858.23	A-TEC
S171022		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 22	7	100%	19-Jan-21 A	28-Jan-21 A			04-Jan-21	02-Feb-21	36624	0	\$40,858.23	A-TEC
S171023		Procure EMCAL Fibers for Final Blocks - Delivery Acceptance 23	17	100%	01-Feb-21 A	25-Feb-21 A			03-Feb-21	03-Mar-21	34272	0	\$38,234.31	A-TEC
S171100		EMCal Scintillating Fiber Acquisition Complete	0	100%		25-Feb-21 A				03-Mar-21	0	0	\$0.00	
S171200	003	Procure EMCAL Epoxy for Final Blocks - Provide Requirements to Procureme	3	100%	19-Mar-20 A	24-Mar-20 A			11-May-20	11-May-20	0	16	\$1,316.39	A-TEC
S171300	003	Procure EMCAL Epoxy for Final Blocks- Prepare & Send Solicitation	4	100%	18-Mar-20 A	24-Mar-20 A			12-May-20	12-May-20	0	0	\$0.00	
S171400	003	Procure EMCAL Epoxy for Final Blocks- Vendor Responses	6	100%	17-Mar-20 A	25-Mar-20 A			13-May-20	13-May-20	0	0	\$0.00	
S171500	003	Procure EMCAL Epoxy for Final Blocks- Vendor Selection	9	100%	18-Mar-20 A	31-Mar-20 A			14-May-20	14-May-20	0	0	\$0.00	
S171600	003	Procure EMCAL Epoxy for Final Blocks- Contract Award(s)	0	100%	31-Mar-20 A				15-May-20		0	0	\$0.00	A-TEC
S171700	003	Procure EMCAL Epoxy for Final Blocks- Contract/PO - Leadtime	61	100%	01-May-20 A	29-Jul-20 A			15-May-20	12-Jun-20	0	0	\$0.00	
S171800	003	Procure EMCAL Epoxy for Final Blocks - Delivery Acceptance	341	100%	03-Aug-20 A	14-Dec-21 A			15-Jun-20	14-Jun-21	90653	0	\$104,858.47	A-TEC
S171900	003	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Provide Rex	3	100%	19-Mar-20 A	24-Mar-20 A			11-May-20	11-May-20	0	0	\$0.00	
S172000	003	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Prepare & S	3	100%	19-Mar-20 A	24-Mar-20 A			12-May-20	12-May-20	0	0	\$0.00	
S172100	003	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Vendor Res	3	100%	19-Mar-20 A	24-Mar-20 A			13-May-20	13-May-20	0	0	\$0.00	
S172200	003	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Vendor Selk	3	100%	19-Mar-20 A	24-Mar-20 A			14-May-20	14-May-20	0	0	\$0.00	
S172300	003	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - ContractAw	0	100%	31-Mar-20 A				15-May-20		0	0	\$0.00	A-TEC
S172400	003	Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Contract/PC	63	100%	01-May-20 A	31-Jul-20 A			15-May-20	15-May-20	0	0	\$0.00	
S172500		Order parts and fabricate molds for EMCAL Sectors 13-64 Blocks - Delivery Ac	294	100%	03-Aug-20 A	04-Oct-21 A			18-May-20	17-May-21	26230	0	\$30,340.28	A-TEC
S172600	003	Set up factory for final blocks Purchased Services	119	100%	05-Jun-19 A	25-Nov-19 A			31-Jul-19	20-Dec-19	0	79	\$7,016.60	A-TEC
S172700		Set up factory for final blocks M&S	119	100%	05-Jun-19 A	25-Nov-19 A			31-Jul-19	20-Dec-19	2530	0	\$2,840.48	A-TEC
S172800	003	Prepare fiber assemblies for final blocks	527	100%	21-Jun-19 A	30-Jul-21 A			21-Aug-19	02-Aug-21	0	9360	\$163,756.61	A-TEC

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Activity ID	BNL_PCRF ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S172850	011	Supervise EMCAL Final Block Production	375	100%	01-May-20 A	29-Oct-21 A			01-Apr-20	20-Sep-21	52800	0	\$60,986.25	A-TEC
S172870	017	EMCAL Block Production QA	210	100%	01-Dec-20 A	30-Sep-21 A			01-Dec-20	20-Sep-21	460000	0	\$533,914.78	A-TEC
S172880	031A	EMCAL Block Refurbishment and Replacement	18	100%	01-Apr-22 A	27-Apr-22 A			01-Apr-22	30-Sep-22	55602	0	\$62,030.34	A-TEC
S172900	003,004	Production Readiness Review, Safety Review - EMCAL Blocks	5	100%	03-Aug-20 A	07-Aug-20 A			06-Sep-19	12-Sep-19	0	20	\$1,645.49	A-TEC
POM02.01.03.01.03.02 Fabricate final blocks			295		13-Oct-20 A	17-Dec-21 A			15-Jun-20	10-Sep-21	0	7020	\$270,628.41	
S173000	003	Fabricate final blocks sector 13	6	100%	13-Oct-20 A	20-Oct-20 A			15-Jun-20	22-Jun-20	0	135	\$5,162.69	A-TEC
S173100	003,004	Fabricate final blocks sector 14	6	100%	21-Oct-20 A	28-Oct-20 A			23-Jun-20	30-Jun-20	0	135	\$5,162.69	A-TEC
S173200	003,004	Fabricate final blocks sector 15	6	100%	22-Oct-20 A	30-Oct-20 A			01-Jul-20	09-Jul-20	0	135	\$5,162.69	A-TEC
S173300	003,004	Fabricate final blocks sector 16	18	100%	21-Oct-20 A	16-Nov-20 A			10-Jul-20	17-Jul-20	0	135	\$5,162.69	A-TEC
S173400	003,004	Fabricate final blocks sector 17	6	100%	17-Nov-20 A	24-Nov-20 A			20-Jul-20	27-Jul-20	0	135	\$5,162.69	A-TEC
S173500	003,004	Fabricate final blocks sector 18	8	100%	25-Nov-20 A	08-Dec-20 A			28-Jul-20	04-Aug-20	0	135	\$5,162.69	A-TEC
S173600	003,004	Fabricate final blocks sector 19	6	100%	09-Dec-20 A	16-Dec-20 A			05-Aug-20	12-Aug-20	0	135	\$5,162.69	A-TEC
S173700	003,004	Fabricate final blocks sector 20	16	100%	17-Dec-20 A	11-Jan-21 A			13-Aug-20	20-Aug-20	0	135	\$5,162.69	A-TEC
S173800	003,004	Fabricate final blocks sector 21	6	100%	12-Jan-21 A	20-Jan-21 A			21-Aug-20	28-Aug-20	0	135	\$5,162.69	A-TEC
S173900	003,004	Fabricate final blocks sector 22	13	100%	21-Jan-21 A	08-Feb-21 A			31-Aug-20	08-Sep-20	0	135	\$5,162.69	A-TEC
S174000	003,004	Fabricate final blocks sector 23	6	100%	09-Feb-21 A	17-Feb-21 A			09-Sep-20	16-Sep-20	0	135	\$5,162.69	A-TEC
S174100	003,004	Fabricate final blocks sector 24	2	100%	18-Feb-21 A	22-Feb-21 A			17-Sep-20	24-Sep-20	0	135	\$5,162.69	A-TEC
S174200	003,004	Fabricate final blocks sector 25	3	100%	23-Feb-21 A	26-Feb-21 A			25-Sep-20	02-Oct-20	0	135	\$5,162.69	A-TEC
S174300	003,004	Fabricate final blocks sector 26	20	100%	26-Feb-21 A	26-Mar-21 A			05-Oct-20	13-Oct-20	0	135	\$5,162.69	A-TEC
S174400	003,004	Fabricate final blocks sector 27	10	100%	16-Mar-21 A	29-Mar-21 A			14-Oct-20	21-Oct-20	0	135	\$5,162.69	A-TEC
S174500	003,004	Fabricate final blocks sector 28	10	100%	18-Mar-21 A	31-Mar-21 A			22-Oct-20	29-Oct-20	0	135	\$5,162.69	A-TEC
S174600	003,004	Fabricate final blocks sector 29	6	100%	26-Mar-21 A	02-Apr-21 A			30-Oct-20	06-Nov-20	0	135	\$5,162.69	A-TEC
S174700	003,004	Fabricate final blocks sector 30	6	100%	05-Apr-21 A	12-Apr-21 A			09-Nov-20	17-Nov-20	0	135	\$5,162.69	A-TEC
S174800	003,004	Fabricate final blocks sector 31	6	100%	13-Apr-21 A	20-Apr-21 A			18-Nov-20	25-Nov-20	0	135	\$5,162.69	A-TEC
S174900	003,004	Fabricate final blocks sector 32	6	100%	21-Apr-21 A	28-Apr-21 A			30-Nov-20	07-Dec-20	0	135	\$5,162.69	A-TEC
S175000	003,004	Fabricate final blocks sector 33	1	100%	29-Apr-21 A	30-Apr-21 A			08-Dec-20	15-Dec-20	0	135	\$5,162.69	A-TEC
S175100	003,004	Fabricate final blocks sector 34	1	100%	29-Apr-21 A	30-Apr-21 A			16-Dec-20	23-Dec-20	0	135	\$5,162.69	A-TEC
S175200	003,004	Fabricate final blocks sector 35	6	100%	30-Apr-21 A	07-May-21 A			24-Dec-20	04-Jan-21	0	135	\$5,162.69	A-TEC
S175300	003,004	Fabricate final blocks sector 36	6	100%	10-May-21 A	17-May-21 A			05-Jan-21	12-Jan-21	0	135	\$5,162.69	A-TEC
S175400	003,004	Fabricate final blocks sector 37	6	100%	18-May-21 A	25-May-21 A			13-Jan-21	21-Jan-21	0	135	\$5,162.69	A-TEC
S175500	003,004	Fabricate final blocks sector 38	6	100%	26-May-21 A	03-Jun-21 A			22-Jan-21	29-Jan-21	0	135	\$5,162.69	A-TEC
S175600	003,004	Fabricate final blocks sector 39	6	100%	04-Jun-21 A	11-Jun-21 A			01-Feb-21	08-Feb-21	0	135	\$5,162.69	A-TEC
S175700	003,004	Fabricate final blocks sector 40	6	100%	14-Jun-21 A	21-Jun-21 A			09-Feb-21	17-Feb-21	0	135	\$5,162.69	A-TEC
S175800	003,004	Fabricate final blocks sector 41	6	100%	22-Jun-21 A	29-Jun-21 A			18-Feb-21	25-Feb-21	0	135	\$5,162.69	A-TEC
S175900	003,004	Fabricate final blocks sector 42	6	100%	30-Jun-21 A	09-Jul-21 A			26-Feb-21	05-Mar-21	0	135	\$5,162.69	A-TEC
S176000	003,004	Fabricate final blocks sector 43	4	100%	12-Jul-21 A	16-Jul-21 A			08-Mar-21	15-Mar-21	0	135	\$5,162.69	A-TEC
S176100	003,004	Fabricate final blocks sector 44	4	100%	19-Jul-21 A	23-Jul-21 A			16-Mar-21	23-Mar-21	0	135	\$5,162.69	A-TEC
S176200	003,004	Fabricate final blocks sector 45	3	100%	22-Jul-21 A	27-Jul-21 A			24-Mar-21	31-Mar-21	0	135	\$5,162.69	A-TEC
S176300	003,004	Fabricate final blocks sector 46	4	100%	23-Jul-21 A	29-Jul-21 A			01-Apr-21	08-Apr-21	0	135	\$5,162.69	A-TEC
S176400	003,004	Fabricate final blocks sector 47	14	100%	27-Jul-21 A	13-Aug-21 A			09-Apr-21	16-Apr-21	0	135	\$5,162.69	A-TEC
S176500	003,004	Fabricate final blocks sector 48	6	100%	16-Aug-21 A	23-Aug-21 A			19-Apr-21	26-Apr-21	0	135	\$5,162.69	A-TEC
S176600	003,004	Fabricate final blocks sector 49	4	100%	24-Aug-21 A	30-Aug-21 A			27-Apr-21	04-May-21	0	135	\$5,162.69	A-TEC
S176700	003,004	Fabricate final blocks sector 50	10	100%	27-Aug-21 A	13-Sep-21 A			05-May-21	12-May-21	0	135	\$5,162.69	A-TEC
S176800	003,004	Fabricate final blocks sector 51	4	100%	09-Sep-21 A	15-Sep-21 A			13-May-21	20-May-21	0	135	\$5,317.57	A-TEC
S176900	003,004	Fabricate final blocks sector 52	7	100%	13-Sep-21 A	22-Sep-21 A			21-May-21	28-May-21	0	135	\$5,317.57	A-TEC

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S177000	003,004	Fabricate final blocks sector 53	15	100%	20-Sep-21 A	08-Oct-21 A			01-Jun-21	08-Jun-21	0	135	\$5,317.57	A-TEC
S177100	003,004	Fabricate final blocks sector 54	6	100%	12-Oct-21 A	19-Oct-21 A			09-Jun-21	16-Jun-21	0	135	\$5,317.57	A-TEC
S177200	003,004	Fabricate final blocks sector 55	6	100%	20-Oct-21 A	27-Oct-21 A			17-Jun-21	24-Jun-21	0	135	\$5,317.57	A-TEC
S177300	003,004	Fabricate final blocks sector 56	3	100%	25-Oct-21 A	28-Oct-21 A			25-Jun-21	02-Jul-21	0	135	\$5,317.57	A-TEC
S177400	003,004	Fabricate final blocks sector 57	3	100%	26-Oct-21 A	29-Oct-21 A			06-Jul-21	13-Jul-21	0	135	\$5,317.57	A-TEC
S177500	003,004	Fabricate final blocks sector 58	4	100%	28-Oct-21 A	02-Nov-21 A			14-Jul-21	21-Jul-21	0	135	\$5,317.57	A-TEC
S177600	003,004	Fabricate final blocks sector 59	5	100%	03-Nov-21 A	09-Nov-21 A			22-Jul-21	29-Jul-21	0	135	\$5,317.57	A-TEC
S177700	003,004	Fabricate final blocks sector 60	5	100%	10-Nov-21 A	17-Nov-21 A			30-Jul-21	06-Aug-21	0	135	\$5,317.57	A-TEC
S177800	003,004	Fabricate final blocks sector 61	5	100%	18-Nov-21 A	24-Nov-21 A			09-Aug-21	16-Aug-21	0	135	\$5,317.57	A-TEC
S177900	003,004	Fabricate final blocks sector 62	5	100%	29-Nov-21 A	03-Dec-21 A			17-Aug-21	24-Aug-21	0	135	\$5,317.57	A-TEC
S178000	003,004	Fabricate final blocks sector 63	5	100%	06-Dec-21 A	10-Dec-21 A			25-Aug-21	01-Sep-21	0	135	\$5,317.57	A-TEC
S178100	003,004	Fabricate final blocks sector 64	5	100%	13-Dec-21 A	17-Dec-21 A			02-Sep-21	10-Sep-21	0	135	\$5,317.57	A-TEC
S178200		EMCal Block fabrication is complete	0	100%		17-Dec-21 A				10-Sep-21	0	0	\$0.00	
POM02.01.03.01.03.03 Pack and ship final blocks to BNL			310		22-Oct-20 A	24-Jan-22 A			20-Jul-20	27-Sep-21	42120	266	\$65,932.87	
S178300	003	Pack and ship final blocks for sectors 13-16 to BNL - Purchased Services	22	100%	22-Oct-20 A	23-Nov-20 A			20-Jul-20	24-Jul-20	0	20	\$1,222.54	A-TEC
S178310	003	Pack and ship final blocks for sectors 13-16 to BNL - M&S	22	100%	22-Oct-20 A	23-Nov-20 A			20-Jul-20	24-Jul-20	3240	0	\$3,760.62	A-TEC
S178400	003	Pack and ship final blocks for sectors 17-24 to BNL - Purchased Services	90	100%	16-Nov-20 A	30-Mar-21 A			25-Sep-20	01-Oct-20	0	41	\$2,561.30	A-TEC
S178410	003	Pack and ship final blocks for sectors 17-24 to BNL - M&S	90	100%	16-Nov-20 A	30-Mar-21 A			25-Sep-20	01-Oct-20	6480	0	\$7,521.23	A-TEC
S178500	003	Pack and ship final blocks for sectors 25-32 to BNL - Purchased Services	35	100%	22-Mar-21 A	07-May-21 A			08-Dec-20	14-Dec-20	0	41	\$2,561.30	A-TEC
S178510	003	Pack and ship final blocks for sectors 25-32 to BNL - M&S	35	100%	22-Mar-21 A	07-May-21 A			08-Dec-20	14-Dec-20	6480	0	\$7,521.23	A-TEC
S178600	003	Pack and ship final blocks for sectors 33-40 to BNL - Purchased Services	30	100%	17-May-21 A	28-Jun-21 A			18-Feb-21	24-Feb-21	0	41	\$2,561.30	A-TEC
S178610	003	Pack and ship final blocks for sectors 33-40 to BNL - M&S	30	100%	17-May-21 A	28-Jun-21 A			18-Feb-21	24-Feb-21	6480	0	\$7,521.23	A-TEC
S178700	003	Pack and ship final blocks for sectors 41-48 to BNL - Purchased Services	53	100%	15-Jun-21 A	30-Aug-21 A			27-Apr-21	03-May-21	0	41	\$2,561.30	A-TEC
S178710	003	Pack and ship final blocks for sectors 41-48 to BNL - M&S	53	100%	15-Jun-21 A	30-Aug-21 A			27-Apr-21	03-May-21	6480	0	\$7,521.23	A-TEC
S178800	003	Pack and ship final blocks for sectors 49-56 to BNL - Purchased Services	41	100%	30-Aug-21 A	28-Oct-21 A			06-Jul-21	12-Jul-21	0	41	\$2,638.14	A-TEC
S178910	003	Pack and ship final blocks for sectors 49-56 to BNL - M&S	41	100%	30-Aug-21 A	28-Oct-21 A			06-Jul-21	12-Jul-21	6480	0	\$7,671.66	A-TEC
S178900	003	Pack and ship final blocks for sectors 57-64 to BNL - Purchased Services	37	100%	26-Oct-21 A	20-Dec-21 A			21-Sep-21	27-Sep-21	0	41	\$2,638.14	A-TEC
S176010	003	Pack and ship final blocks for sectors 57-64 to BNL - M&S	37	100%	26-Oct-21 A	20-Dec-21 A			13-Sep-21	17-Sep-21	6480	0	\$7,671.66	A-TEC
S179000		EMCal final blocks arrive at BNL	0	100%		24-Jan-22 A				27-Sep-21	0	0	\$0.00	
POM02.01.03.01.04 EMCAL Block Fabrication Procurement			615		09-Jun-17 A	25-Nov-19 A			09-Jun-17	01-Oct-19	1590233	0	\$1,590,233.00	
OBLG1793	003	Procure Contracted Labor Univ. Illinois Urbana-Champaign (UIUC) - Obligation	0	100%	31-Jul-17 A	31-Jul-17 A			31-Jul-17	31-Jul-17	0	0	\$0.00	A-OPC
OBLG1796	003,004	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) -	1	100%	11-Sep-19 A	11-Sep-19 A			23-Jul-19	24-Jul-19	833633	0	\$833,633.00	A-TEC
OBLG1796	003	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) -	1	100%	01-Oct-19 A	01-Oct-19 A			01-Oct-19	01-Oct-19	756600	0	\$756,600.00	A-TEC
S179100		Procure Contracted Labor Univ. Illinois Urbana-Champaign (UIUC) - Provide f	4	100%	09-Jun-17 A	15-Jun-17 A			09-Jun-17	15-Jun-17	0	0	\$0.00	
S179200		Procure Contracted Labor Univ. Illinois Urbana-Champaign (UIUC) - Vendor S	29	100%	16-Jun-17 A	28-Jul-17 A			16-Jun-17	28-Jul-17	0	0	\$0.00	
S179300	003	Procure Contracted Labor Univ. Illinois Urbana-Champaign (UIUC) - Contract	0	100%	31-Jul-17 A				31-Jul-17		0	0	\$0.00	A-OPC
S179600	003,004	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) -	0	100%	25-Nov-19 A				24-Jul-19		0	0	\$0.00	A-TEC
S179601	003	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) -	0	100%	25-Nov-19 A				01-Oct-19		0	0	\$0.00	A-TEC
POM02.01.03.02 EMCAL Module Fabrication and Sector Assembly			1393		09-Mar-17 A	30-Sep-22 A			09-Mar-17	30-Sep-22	1678887	43774	\$6,036,770.94	
POM02.01.03.02.01 Set up Module Fabrication, Sector Assembly and Test area			393		01-May-18 A	25-Nov-19 A			01-May-18	31-Jul-19	10150	31	\$15,421.01	
S180200		Set up EMCAL Final module production and sector assembly areas Labor	145	100%	30-Oct-18 A	31-May-19 A			30-Oct-18	31-May-19	0	0	\$0.00	B
S180202		Set up EMCAL Final module production and sector assembly areas Labor Sp	121	100%	03-Jun-19 A	25-Nov-19 A			03-Jun-19	31-Jul-19	0	31	\$4,222.87	B
S180300		Set up EMCAL Prepro module production and sector assembly areas M&S	39	100%	31-Oct-18 A	31-Dec-18 A			31-Oct-18	31-Dec-18	0	0	\$0.00	A-OPC
S180400		Set up EMCAL Final module production and sector assembly areas M&S	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	A-OPC
S180402		Set up EMCAL Final module production and sector assembly areas M&S Split	63	100%	03-Jun-19 A	30-Aug-19 A			03-Jun-19	31-Jul-19	10150	0	\$11,198.14	A-OPC

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S180500		Set up EMCAL test area Labor	21	100%	01-May-18 A	31-May-18 A			01-May-18	31-May-18	0	0	\$0.00	
S180600		Set up EMCAL test area M&S	21	100%	01-May-18 A	31-May-18 A			01-May-18	31-May-18	0	0	\$0.00	
S180700	004	Safety Review of Assembly and Test Areas	0	100%	01-Jun-18 A	01-Jun-18 A			01-Jun-18	01-Jun-18	0	0	\$0.00	
POM02.01.03.02.02 EMCAL Module Fabrication			1266		09-Mar-17 A	31-Mar-22 A			09-Mar-17	13-Oct-21	771825	10304	\$2,167,853.76	
POM02.01.03.02.02.01 EMCAL Prototype V2.1 Module Fabrication			195		09-Mar-17 A	18-Dec-17 A			09-Mar-17	18-Dec-17	0	0	\$0.00	
S180800		Design 2D projective blocks for v2.1 prototype	9	100%	09-Mar-17 A	22-Mar-17 A			09-Mar-17	22-Mar-17	0	0	\$0.00	
S180900		Design screens for v2.1 prototype blocks	4	100%	23-Mar-17 A	29-Mar-17 A			23-Mar-17	29-Mar-17	0	0	\$0.00	
S181000		Design light guides for v2.1 prototype blocks	29	100%	30-Mar-17 A	10-May-17 A			30-Mar-17	10-May-17	0	0	\$0.00	
S181100		Procure light guides for v2.1 prototype modules Labor	139	100%	11-May-17 A	01-Dec-17 A			11-May-17	01-Dec-17	0	0	\$0.00	
S181200		Procure mechanical parts for V2.1 prototype modules Labor	35	100%	21-Aug-17 A	11-Oct-17 A			21-Aug-17	11-Oct-17	0	0	\$0.00	
S181300		Receive, unpack, log and inspect blocks for v2.1 Prototype	0	100%	17-Oct-17 A	17-Oct-17 A			17-Oct-17	17-Oct-17	0	0	\$0.00	
S181400		Install reflectors and mounting supports on v2.1 prototype blocks	0	100%	18-Oct-17 A	18-Oct-17 A			18-Oct-17	18-Oct-17	0	0	\$0.00	
S181500		Prepare light guides for V2.1 prototype	4	100%	04-Dec-17 A	08-Dec-17 A			04-Dec-17	08-Dec-17	0	0	\$0.00	
S181600		Install light guides on v2.1 prototype blocks	4	100%	11-Dec-17 A	15-Dec-17 A			11-Dec-17	15-Dec-17	0	0	\$0.00	
S181700		Install SiPMs & daughterboards on v2.1 prototype blocks	0	100%	18-Dec-17 A	18-Dec-17 A			18-Dec-17	18-Dec-17	0	0	\$0.00	
S181800		Procure light guides for v2.1 prototype modules M&S	139	100%	11-May-17 A	01-Dec-17 A			11-May-17	01-Dec-17	0	0	\$0.00	
S181900		Procure mechanical parts for V2.1 prototype modules M&S	35	100%	21-Aug-17 A	11-Oct-17 A			21-Aug-17	11-Oct-17	0	0	\$0.00	
S182000		Install reflectors and mounting supports on v2.1 prototype blocks	0	100%	18-Oct-17 A	18-Oct-17 A			18-Oct-17	18-Oct-17	0	0	\$0.00	
S182100		Procure EMCAL Prototype V2.1 Blocks & Modules - Delivery Acceptance	4	100%	11-Dec-17 A	15-Dec-17 A			11-Dec-17	15-Dec-17	0	0	\$0.00	
S182200		Install SiPMs & daughterboards on v2.1 prototype blocks	0	100%	18-Dec-17 A	18-Dec-17 A			18-Dec-17	18-Dec-17	0	0	\$0.00	
S182201	004	Preliminary Design Review - EMCAL Modules for Sectors 1-12	0	100%		18-Dec-17 A				18-Dec-17	0	0	\$0.00	
POM02.01.03.02.02.02 EMCAL Preprod Sector 0, 1-12 Module Fabrication			951		23-Mar-17 A	11-Jan-21 A			23-Mar-17	25-Jun-20	197074	2824	\$566,947.41	
OBLG1846		Procure light guides for modules in Sectors (Prepro) 1-12 - Obligation	1	100%	03-Sep-19 A	03-Sep-19 A			01-Aug-19	01-Aug-19	88914	0	\$88,914.40	A-OPC
OBLG1856		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Obligation	1	100%	03-Sep-19 A	03-Sep-19 A			11-Oct-19	11-Oct-19	14961	0	\$14,961.45	A-OPC
S182300		Design 2D projective blocks for preproduction prototype	4	100%	23-Mar-17 A	29-Mar-17 A			23-Mar-17	29-Mar-17	0	0	\$0.00	
S182400		Design screens for preproduction prototype blocks	4	100%	30-Mar-17 A	05-Apr-17 A			30-Mar-17	05-Apr-17	0	0	\$0.00	
S182500		Design light guides for preproduction prototype	56	100%	11-May-17 A	01-Aug-17 A			11-May-17	01-Aug-17	0	0	\$0.00	
S182600		Procure light guides for preproduction prototype sector 0 Labor	89	100%	23-May-18 A	28-Sep-18 A			23-May-18	28-Sep-18	0	0	\$0.00	
S182700		Procure light guides for preproduction prototype sector 0 M&S	89	100%	23-May-18 A	28-Sep-18 A			23-May-18	28-Sep-18	0	0	\$0.00	
S182800		Procure mechanical parts for modules for preproduction prototype sector 0 M&	89	100%	23-May-18 A	28-Sep-18 A			23-May-18	28-Sep-18	0	0	\$0.00	
S182900		Procure mechanical parts for modules for preproduction prototype sector 0 M&	21	100%	01-Oct-18 A	31-Oct-18 A			01-Oct-18	31-Oct-18	0	0	\$0.00	A-OPC
S183000		Procure mechanical parts for modules for preproduction prototype sector 0 Lat	89	100%	23-May-18 A	28-Sep-18 A			23-May-18	28-Sep-18	0	0	\$0.00	
S183100		Procure mechanical parts for modules for preproduction prototype sector 0 Lat	21	100%	01-Oct-18 A	31-Oct-18 A			01-Oct-18	31-Oct-18	0	0	\$0.00	B
S183200	003	Receive, unpack, log & inspect preproduction prototype blocks sector 0 M&S	137	100%	25-Oct-18 A	15-May-19 A			25-Oct-18	15-May-19	0	0	\$0.00	A-OPC
S183300		Receive, unpack, log & inspect preproduction prototype blocks sector 0 Labor	138	100%	25-Oct-18 A	15-May-19 A			25-Oct-18	15-May-19	0	0	\$0.00	B
S183400		Install reflectors on preproduction prototype blocks sector 0 M&S	136	100%	26-Oct-18 A	15-May-19 A			26-Oct-18	15-May-19	0	0	\$0.00	A-OPC
S183500		Install reflectors on preproduction prototype blocks sector 0 Labor	136	100%	26-Oct-18 A	15-May-19 A			26-Oct-18	15-May-19	0	0	\$0.00	B
S183600		Install light guides on preproduction prototype blocks sector 0 M&S	136	100%	26-Oct-18 A	15-May-19 A			26-Oct-18	15-May-19	0	0	\$0.00	A-OPC
S183700		Install light guides on preproduction prototype blocks sector 0 Labor	136	100%	26-Oct-18 A	15-May-19 A			26-Oct-18	15-May-19	0	0	\$0.00	B
S183800	004	EmCal Test Fit Blocks Sector 0 and Preproduction Readiness Review	15	100%	02-May-19 A	23-May-19 A			02-May-19	23-May-19	0	0	\$0.00	
S183801	004	Final Design Review, Production Readiness Review - EMCAL Modules for Sec	1	100%	01-Aug-19 A	01-Aug-19 A			31-Jul-19	31-Jul-19	0	24	\$2,581.88	B
S183900		Install SiPMs & daughterboards on preproduction prototype blocks sector 0	72	100%	01-Feb-19 A	15-May-19 A			01-Feb-19	15-May-19	0	0	\$0.00	B
S184000		Glue preproduction prototype blocks together into modules sector 0	9	100%	02-May-19 A	15-May-19 A			02-May-19	15-May-19	0	0	\$0.00	B
S184100		Sector 0 Module Production Complete	0	100%		15-May-19 A				15-May-19	0	0	\$0.00	B
S184200		Procure light guides for modules in Sectors (Prepro) 1-12 - Provide Requirem	3	100%	20-Feb-19 A	25-Feb-19 A			20-Feb-19	25-Feb-19	0	0	\$0.00	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S184300		Procure light guides for modules in Sectors (Prepro) 1-12 - Prepare & Send Sc	37	100%	02-Jan-19 A	26-Feb-19 A			02-Jan-19	26-Feb-19	0	0	\$0.00	
S184400		Procure light guides for modules in Sectors (Prepro) 1-12 - Vendor Responses	1	100%	26-Feb-19 A	27-Feb-19 A			26-Feb-19	27-Feb-19	0	0	\$0.00	
S184500		Procure light guides for modules in Sectors (Prepro) 1-12 - Vendor Selection	1	100%	27-Feb-19 A	28-Feb-19 A			27-Feb-19	28-Feb-19	0	0	\$0.00	
S184600		Procure light guides for modules in Sectors (Prepro) 1-12 - Contract Award	0	100%	01-Mar-19 A				01-Mar-19		0	0	\$0.00	A-OPC
S184700		Procure light guides for modules in Sectors (Prepro) 1-12 - Contract/PO Leadti	84	100%	01-Mar-19 A	28-Jun-19 A			01-Mar-19	26-Aug-19	0	0	\$0.00	A-OPC
S184800	005	Procure light guides for modules in Sectors (Prepro) 1-12 - Delivery Acceptanc	320	100%	03-Sep-19 A	14-Dec-20 A			27-Aug-19	03-Sep-19	79700	0	\$89,114.14	A-OPC
S184900		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Provide Requ	5	100%	01-Aug-19 A	07-Aug-19 A			01-Aug-19	07-Aug-19	0	40	\$4,912.99	B
S185000		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Prepare & Se	15	100%	08-Aug-19 A	28-Aug-19 A			08-Aug-19	28-Aug-19	0	0	\$0.00	
S185100		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Vendor Resp	1	100%	29-Aug-19 A	30-Aug-19 A			29-Aug-19	12-Sep-19	0	0	\$0.00	
S185200		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Vendor Selec	7	100%	21-Aug-19 A	30-Aug-19 A			13-Sep-19	10-Oct-19	0	0	\$0.00	
S185300		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Contract Awa	0	100%	01-Aug-19 A				11-Oct-19		0	0	\$0.00	A-OPC
S185400		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Contract/PO -	63	100%	01-Aug-19 A	31-Oct-19 A			11-Oct-19	11-Dec-19	0	0	\$0.00	
S185500		Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Delivery Acce	11	100%	16-Oct-19 A	31-Oct-19 A			12-Dec-19	12-Dec-19	13148	0	\$14,961.45	A-OPC
S185600		Receive, unpack, log & inspect blocks for Prepro Sectors 1-12 M&S	262	100%	16-Oct-19 A	30-Oct-20 A			02-Dec-19	21-May-20	0	0	\$0.00	
S185700	004	Receive, unpack, log & inspect blocks for Prepro Sectors 1-12 Labor	259	100%	21-Oct-19 A	30-Oct-20 A			02-Dec-19	21-May-20	0	532	\$67,938.12	B
S185800		Install reflectors on blocks for modules for Prepro Sectors 1-12 M&S	266	100%	09-Oct-19 A	30-Oct-20 A			13-Dec-19	04-Jun-20	350	0	\$398.27	A-OPC
S185900	004	Install reflectors on blocks for modules for Prepro Sectors 1-12 Labor	259	100%	21-Oct-19 A	30-Oct-20 A			13-Dec-19	04-Jun-20	0	557	\$70,791.18	B
S186000	004	Install light guides on preproduction prototype blocks Labor	252	100%	09-Jan-20 A	11-Jan-21 A			20-Dec-19	11-Jun-20	0	557	\$70,791.18	B
S186100	004	Install SiPM daughterboards on blocks for modules in Sectors (Prepro) 1-12 Li	221	100%	25-Feb-20 A	11-Jan-21 A			30-Dec-19	18-Jun-20	0	557	\$70,791.18	B
S186200	004	Glue blocks together into modules for modules in Sectors (Prepro) 1-12 Labor	221	100%	25-Feb-20 A	11-Jan-21 A			07-Jan-20	25-Jun-20	0	557	\$70,791.18	B
POM02.01.03.02.02.03 EMCAL Final Module Fabrication			506		24-Mar-20 A	31-Mar-22 A			06-Apr-20	13-Oct-21	574752	7480	\$1,600,906.35	
OBLG1866		Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Obligation	5	100%	23-Jun-20 A	30-Jun-20 A			22-Jul-20	22-Jul-20	59946	0	\$59,945.93	A-TEC
OBLG1872		Procure light guides for modules in Sectors 13-64 - Obligation	13	100%	15-Oct-20 A	02-Nov-20 A			20-Apr-20	20-Apr-20	244932	0	\$244,931.70	A-TEC
S186300	003	Revise module production procedure based on module production for Prepro :	69	100%	24-Mar-20 A	30-Jun-20 A			06-Apr-20	17-Apr-20	0	144	\$21,206.16	B
S186400	003,004	Production Readiness Review - EMCAL Modules for Sectors 13-64	2	100%	27-Jul-20 A	29-Jul-20 A			06-Apr-20	10-Apr-20	0	360	\$65,379.07	B
S186500		Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Provide f	32	100%	14-Apr-20 A	29-May-20 A			20-Apr-20	24-Apr-20	0	56	\$6,390.84	B
S186600		Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Prepare i	32	100%	14-Apr-20 A	29-May-20 A			27-Apr-20	08-Jun-20	0	0	\$0.00	
S186700		Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Vendor F	6	100%	20-May-20 A	29-May-20 A			09-Jun-20	22-Jun-20	0	0	\$0.00	
S186800		Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Vendor S	5	100%	10-Jun-20 A	17-Jun-20 A			23-Jun-20	21-Jul-20	0	0	\$0.00	
S186900		Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Contract	0	100%	30-Jun-20 A				22-Jul-20		0	0	\$0.00	A-TEC
S187000		Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Contract	107	100%	24-Jun-20 A	30-Nov-20 A			22-Jul-20	18-Aug-20	0	0	\$0.00	
S187100	015	Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Delivery	29	100%	15-Oct-20 A	30-Nov-20 A			15-Dec-20	21-Dec-20	52680	0	\$61,144.85	A-TEC
S187200		Procure light guides for modules in Sectors 13-64 - Contract Award	0	100%	20-Apr-20 A				20-Apr-20		0	0	\$0.00	A-TEC
S187300		Procure light guides for modules in Sectors 13-64 - Contract/PO Leadtime	145	100%	01-Jun-20 A	30-Dec-20 A			20-Apr-20	09-Sep-20	0	0	\$0.00	A-TEC
S187400	014	Procure light guides for modules in Sectors 13-64 - Delivery Acceptance	246	100%	22-Dec-20 A	15-Dec-21 A			10-Sep-20	30-Dec-20	215244	0	\$240,129.12	A-TEC
S187500	004	Receive, unpack, log & inspect final blocks	294	100%	23-Nov-20 A	31-Jan-22 A			31-Aug-20	28-Sep-21	0	1384	\$179,682.47	B
S187600	004	Install light guides on final blocks Labor	299	100%	21-Jan-21 A	31-Mar-22 A			02-Sep-20	30-Sep-21	0	1384	\$180,018.02	B
S187700		Install light guides on final blocks M&S	299	100%	21-Jan-21 A	31-Mar-22 A			02-Sep-20	30-Sep-21	1650	0	\$1,926.31	A-TEC
S187800	004	Install reflectors on final blocks Labor	337	100%	23-Nov-20 A	31-Mar-22 A			04-Sep-20	04-Oct-21	0	1384	\$179,722.73	B
S187900		Install reflectors on final blocks M&S	337	100%	23-Nov-20 A	31-Mar-22 A			04-Sep-20	04-Oct-21	0	0	\$0.00	
S188000	004	Install SiPMs daughterboards on final blocks Labor	298	100%	22-Jan-21 A	31-Mar-22 A			11-Sep-20	08-Oct-21	0	1384	\$180,039.44	B
S188100		Install SiPMs daughterboards on final blocks M&S	298	100%	22-Jan-21 A	31-Mar-22 A			11-Sep-20	08-Oct-21	300	0	\$350.27	A-TEC
S188200	004	Glue final blocks together into modules	298	100%	22-Jan-21 A	31-Mar-22 A			15-Sep-20	13-Oct-21	0	1384	\$180,039.44	B
POM02.01.03.02.03 EMCAL Sector Assembly			1358		27-Apr-17 A	30-Sep-22 A			27-Apr-17	30-Sep-22	896912	33439	\$3,853,496.16	
POM02.01.03.02.03.01 EMCAL Prototype v2.1 Sector Assembly			357		27-Apr-17 A	28-Sep-18 A			27-Apr-17	28-Sep-18	0	0	\$0.00	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S188300		Design cooling system for V2.1 prototype	29	100%	27-Apr-17 A	08-Jun-17 A			27-Apr-17	08-Jun-17	0	0	\$0.00	
S188400		Procure parts for cooling system for V2.1 prototype Labor	109	100%	09-Jun-17 A	15-Nov-17 A			09-Jun-17	15-Nov-17	0	0	\$0.00	
S188500		Prepare mounting supports for V2.1 prototype	2	100%	12-Oct-17 A	16-Oct-17 A			12-Oct-17	16-Oct-17	0	0	\$0.00	
S188600		Install blocks in v2.1 prototype	1	100%	19-Dec-17 A	20-Dec-17 A			19-Dec-17	20-Dec-17	0	0	\$0.00	
S188700		Install readout electronics on v2.1 prototype	0	100%	21-Dec-17 A	21-Dec-17 A			21-Dec-17	21-Dec-17	0	0	\$0.00	
S188800		Procure parts for cooling system for V2.1 prototype M&S	109	100%	09-Jun-17 A	15-Nov-17 A			09-Jun-17	15-Nov-17	0	0	\$0.00	
S188900		Install cooling system on v2.1 prototype	4	100%	22-Dec-17 A	29-Dec-17 A			22-Dec-17	29-Dec-17	0	0	\$0.00	
S189000		Test v2.1 prototype with LEDs & cosmic rays	30	100%	02-Jan-18 A	14-Feb-18 A			02-Jan-18	14-Feb-18	0	0	\$0.00	
S189100		Pack & ship v2.1 prototype to Fermilab Labor	0	100%	14-Feb-18 A	14-Feb-18 A			14-Feb-18	14-Feb-18	0	0	\$0.00	
S189200		Pack & ship v2.1 prototype to Fermilab M&S	0	100%	14-Feb-18 A	14-Feb-18 A			14-Feb-18	14-Feb-18	0	0	\$0.00	
S189300		Test v2.1 prototype in test beam at Fermilab Labor	63	100%	21-Feb-18 A	21-May-18 A			21-Feb-18	21-May-18	0	0	\$0.00	
S189400		Test v2.1 prototype in test beam at Fermilab M&S	63	100%	21-Feb-18 A	21-May-18 A			21-Feb-18	21-May-18	0	0	\$0.00	
S189500		Analyze test beam results from v2.1 prototype FY18	90	100%	22-May-18 A	28-Sep-18 A			22-May-18	28-Sep-18	0	0	\$0.00	
S189600		Completion of v2.1 prototype	0	100%		28-Sep-18 A				28-Sep-18	0	0	\$0.00	
POM02.01.03.02.03.02 EMCAL Preproduction Sector Assembly and Testing			815		02-Jan-18 A	05-Apr-21 A			02-Jan-18	01-Sep-20	200631	9407	\$1,070,259.68	
OBLG192f	003,004	Procure mechanical parts for Prepro Sectors 1-12, Phase 1 - Obligation	1	100%	03-Sep-19 A	03-Sep-19 A			31-Oct-19	31-Oct-19	41873	0	\$41,873.39	A-OPC
OBLG192f	003,004	Procure mechanical parts for Prepro Sectors 1-12, Phase 2 - Obligation	1	100%	01-Oct-19 A	01-Oct-19 A			31-Oct-19	31-Oct-19	41873	0	\$41,873.39	A-TEC
OBLG193f		Procure parts for cooling system for Prepro Sectors 1-12 - Obligation	1	100%	03-Sep-19 A	03-Sep-19 A			31-Oct-19	31-Oct-19	22508	0	\$22,508.17	A-OPC
S189700		Design mechanical enclosure for preproduction prototype Sector 0	131	100%	02-Jan-18 A	10-Jul-18 A			02-Jan-18	10-Jul-18	0	0	\$0.00	
S189800		Design mechanical support structure for preproduction prototype Sector 0	131	100%	02-Jan-18 A	10-Jul-18 A			02-Jan-18	10-Jul-18	0	0	\$0.00	
S189900		Design cooling system for preproduction prototype Sector 0	131	100%	02-Jan-18 A	10-Jul-18 A			02-Jan-18	10-Jul-18	0	0	\$0.00	
S190000	004	Preliminary Design Review - EMCAL Sectors 1-12	0	100%	17-Jul-18 A	17-Jul-18 A			17-Jul-18	17-Jul-18	0	0	\$0.00	
S190100	004	Preliminary Design Review - EMCAL Sectors 1-12	0	100%		17-Jul-18 A				17-Jul-18	0	0	\$0.00	
S190200		Procure mechanical parts for preproduction prototype Sector 0 M&S FY18	51	100%	18-Jul-18 A	28-Sep-18 A			18-Jul-18	28-Sep-18	0	0	\$0.00	
S190300		Procure mechanical parts for preproduction prototype Sector 0 M&S FY19	143	100%	01-Nov-18 A	31-May-19 A			01-Nov-18	31-May-19	0	0	\$0.00	A-OPC
S190302		Procure mechanical parts for preproduction prototype Sector 0 M&S FY19 Sp	19	100%	03-Jun-19 A	28-Jun-19 A			03-Jun-19	01-Jul-19	0	0	\$0.00	A-OPC
S190400		Procure mechanical parts for preproduction prototype Sector 0 Labor FY18	51	100%	18-Jul-18 A	28-Sep-18 A			18-Jul-18	28-Sep-18	0	0	\$0.00	
S190500		Procure mechanical parts for preproduction prototype Sector 0 Labor FY19	143	100%	01-Nov-18 A	31-May-19 A			01-Nov-18	31-May-19	0	0	\$0.00	B
S190502		Procure mechanical parts for preproduction prototype Sector 0 Labor FY19 Sp	19	100%	03-Jun-19 A	28-Jun-19 A			03-Jun-19	01-Jul-19	0	0	\$0.00	B
S190600		Procure parts for cooling system for preproduction prototype Sector 0 Labor F	51	100%	18-Jul-18 A	28-Sep-18 A			18-Jul-18	28-Sep-18	0	0	\$0.00	
S190700		Procure parts for cooling system for preproduction prototype Sector 0 Labor F	143	100%	01-Nov-18 A	31-May-19 A			01-Nov-18	31-May-19	0	0	\$0.00	B
S190702		Procure parts for cooling system for preproduction prototype Sector 0 Labor F	19	100%	03-Jun-19 A	28-Jun-19 A			03-Jun-19	01-Jul-19	0	9	\$1,286.78	B
S190800		Procure parts for cooling system for preproduction prototype Sector 0 M&S FY	51	100%	18-Jul-18 A	28-Sep-18 A			18-Jul-18	28-Sep-18	0	0	\$0.00	
S190900		Procure parts for cooling system for preproduction prototype Sector 0 M&S FY	143	100%	01-Nov-18 A	31-May-19 A			01-Nov-18	31-May-19	0	0	\$0.00	A-OPC
S190902		Procure parts for cooling system for preproduction prototype Sector 0 M&S FY	16	100%	01-May-19 A	23-May-19 A			01-May-19	23-May-19	0	0	\$0.00	A-OPC
S191000		Build mechanical enclosure for preproduction prototype Sector 0	42	100%	01-Apr-19 A	30-May-19 A			01-Apr-19	30-May-19	0	0	\$0.00	B
S191100		Build mechanical stand/support for preproduction prototype Sector 0 - Labor	20	100%	01-Jul-19 A	29-Jul-19 A			02-Jul-19	30-Jul-19	0	48	\$5,318.31	B
S191110		Build mechanical stand/support for preproduction prototype Sector 0 - M&S	20	100%	01-Jul-19 A	29-Jul-19 A			02-Jul-19	30-Jul-19	500	0	\$551.63	A-OPC
S191200		Build cooling system for preproduction prototype Sector 0	17	100%	01-May-19 A	24-May-19 A			01-May-19	24-May-19	0	0	\$0.00	B
S191300		Install modules in preproduction prototype Sector 0	37	100%	09-Apr-19 A	31-May-19 A			09-Apr-19	31-May-19	0	0	\$0.00	B
S191400		Install readout electronics on preproduction prototype Sector 0	41	100%	03-Jun-19 A	30-Jul-19 A			03-Jun-19	28-Jun-19	0	128	\$15,211.85	B
S191500		Install cables and cooling system on preproduction prototype Sector 0	44	100%	01-Jul-19 A	30-Aug-19 A			02-Jul-19	30-Jul-19	0	96	\$12,695.99	B
S191600	003	Revise module and sector design based on performance of Sector 0	20	100%	31-Jul-19 A	27-Aug-19 A			31-Jul-19	27-Aug-19	0	440	\$74,912.89	B
S191700		Test preproduction prototype Sector 0 with LEDs & cosmic rays_10%	81	100%	30-Jul-19 A	25-Nov-19 A			31-Jul-19	27-Aug-19	0	208	\$7,773.79	B_T
S191800	003	Analyze test results from preproduction prototype Sector 0	11	100%	07-Nov-19 A	25-Nov-19 A			28-Aug-19	25-Sep-19	0	416	\$17,603.80	B_T

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S191900	003,004	Performance review of preproduction prototype Sector 0	11	100%	07-Nov-19 A	25-Nov-19 A			26-Sep-19	02-Oct-19	0	440	\$77,160.27	B
S192000		EMCal Preproduction Sector 0 Assembled	0	100%		25-Nov-19 A				02-Oct-19	0	0	\$0.00	
S192100	003,004	Final Design Review, Production Readiness Review - EMCAL Sectors 1-12	1	100%	01-Aug-19 A	01-Aug-19 A			03-Sep-19	03-Sep-19	0	8	\$1,336.74	B
S192200		Procure mechanical parts for Prepro Sectors 1-12 - Provide Requirements to I	5	100%	02-Aug-19 A	08-Aug-19 A			04-Sep-19	10-Sep-19	0	24	\$2,659.16	B
S192300		Procure mechanical parts for Prepro Sectors 1-12 - Prepare & Send Solicitatio	15	100%	09-Aug-19 A	29-Aug-19 A			11-Sep-19	01-Oct-19	0	0	\$0.00	
S192400		Procure mechanical parts for Prepro Sectors 1-12 - Vendor Responses	7	100%	21-Aug-19 A	30-Aug-19 A			02-Oct-19	23-Oct-19	0	0	\$0.00	
S192500		Procure mechanical parts for Prepro Sectors 1-12 - Vendor Selection	8	100%	15-Aug-19 A	27-Aug-19 A			24-Oct-19	30-Oct-19	0	0	\$0.00	
S192600	003,004	Procure mechanical parts for Prepro Sectors 1-12, Phase 1 - Contract Award(s)	0	100%	30-Sep-19 A				31-Oct-19		0	0	\$0.00	A-OPC
S192620	003,004	Procure mechanical parts for Prepro Sectors 1-12, Phase 2 - Contract Award(s)	0	100%	30-Sep-19 A				31-Oct-19		0	0	\$0.00	A-TEC
S192700		Procure mechanical parts for Prepro Sectors 1-12 - Contract/PO - Leadtime	34	100%	03-Sep-19 A	22-Oct-19 A			31-Oct-19	31-Dec-19	0	0	\$0.00	
S192800	003,004	Procure mechanical parts for Prepro Sectors 1-12, Phase 1 - Delivery Accepta	150	100%	23-Oct-19 A	29-May-20 A			02-Jan-20	06-Jan-20	36798	0	\$41,873.39	A-OPC
S192810	003,004	Procure mechanical parts for Prepro Sectors 1-12, Phase 2 - Delivery Accepta	158	100%	10-Oct-19 A	29-May-20 A			02-Jan-20	06-Jan-20	36798	0	\$41,873.39	A-TEC
S192900		Procure parts for cooling system for Prepro Sectors 1-12 - Provide Requireme	5	100%	02-Aug-19 A	08-Aug-19 A			04-Sep-19	10-Sep-19	0	24	\$3,431.42	B
S193000		Procure parts for cooling system for Prepro Sectors 1-12 - Prepare & Send Sol	15	100%	09-Aug-19 A	29-Aug-19 A			11-Sep-19	01-Oct-19	0	0	\$0.00	
S193100		Procure parts for cooling system for Prepro Sectors 1-12 - Vendor Responses	5	100%	23-Aug-19 A	30-Aug-19 A			02-Oct-19	23-Oct-19	0	0	\$0.00	
S193200		Procure parts for cooling system for Prepro Sectors 1-12 - Vendor Selection	6	100%	22-Aug-19 A	30-Aug-19 A			24-Oct-19	30-Oct-19	0	0	\$0.00	
S193300		Procure parts for cooling system for Prepro Sectors 1-12 - Contract Award(s)	0	100%	30-Sep-19 A				31-Oct-19		0	0	\$0.00	A-OPC
S193400		Procure parts for cooling system for Prepro Sectors 1-12 - Contract/PO - Leadt	29	100%	03-Sep-19 A	15-Oct-19 A			31-Oct-19	31-Dec-19	0	0	\$0.00	
S193500		Procure parts for cooling system for Prepro Sectors 1-12 - Delivery Acceptance	290	100%	16-Oct-19 A	14-Dec-20 A			02-Jan-20	08-Jan-20	19780	0	\$22,508.17	A-OPC
S193600	003	Build mechanical enclosure for Prepro Sectors 1-12	289	100%	13-Nov-19 A	11-Jan-21 A			09-Jan-20	21-Feb-20	0	336	\$38,345.04	B
S193700	003	Build mechanical stand/support for Prepro Sectors 1-12 - Labor	220	100%	14-Nov-19 A	30-Sep-20 A			09-Jan-20	21-Feb-20	0	336	\$38,345.04	B
S193710		Build mechanical stand/support for Prepro Sectors 1-12 - M&S	221	100%	13-Nov-19 A	30-Sep-20 A			09-Jan-20	21-Feb-20	500	0	\$568.96	A-OPC
S193800	003	Build cooling system for Prepro Sectors 1-12	236	100%	03-Feb-20 A	11-Jan-21 A			09-Jan-20	21-Feb-20	0	216	\$24,650.38	B
S193900	004	Install modules in Prepro Sectors 1-12	220	100%	11-Mar-20 A	26-Jan-21 A			24-Feb-20	11-Aug-20	0	775	\$95,669.80	B
S194000	004	Install readout electronics on Prepro Sectors 1-12	211	100%	24-Mar-20 A	26-Jan-21 A			02-Mar-20	18-Aug-20	0	775	\$96,004.65	B
S194100	004	Install cables and cooling system on Prepro Sectors 1-12	214	100%	25-Mar-20 A	01-Feb-21 A			02-Mar-20	18-Aug-20	0	1319	\$178,525.77	B
S194200	003,004	Test and Review Preproduction Sectors 1-12 with LEDs & cosmic rays	255	100%	24-Mar-20 A	31-Mar-21 A			09-Mar-20	25-Aug-20	0	2086	\$67,342.92	B_T
S194300	003,004	Analyze and Review Test Results from Prepro Sectors 1-12	259	100%	24-Mar-20 A	05-Apr-21 A			16-Mar-20	01-Sep-20	0	1723	\$98,354.57	B_T
S194400		Completion of EMCAL Prepro Sectors 1-12	0	100%		05-Apr-21 A				01-Sep-20	0	0	\$0.00	
POM02.01.03.02.03.03 EMCAL Final Production Sector Assembly			617		15-Apr-20 A	30-Sep-22 A			06-Apr-20	30-Sep-22	696281	24032	\$2,783,236.48	
OBLG1955		Procure EMCAL Mechanical Parts for Final Sectors - Obligation	13	100%	15-Oct-20 A	02-Nov-20 A			15-Jul-20	15-Jul-20	291746	0	\$291,746.17	A-TEC
OBLG1955		Procure EMCAL Cooling System for Final Sectors - Obligation	0	100%	30-Jul-20 A	30-Jul-20 A			15-Jul-20	15-Jul-20	82284	0	\$82,284.41	A-TEC
S194500	003	Revise sector assembly procedure based on preproduction Sector 1-12 fabrica	0	100%	30-Jul-20 A	30-Jul-20 A			06-Apr-20	01-May-20	0	144	\$21,206.16	B
S194600	003,004	Production Readiness Review - EMCAL Sectors 13-63	0	100%	30-Jul-20 A	30-Jul-20 A			04-May-20	08-May-20	0	160	\$29,247.42	B
S194700		EMCAL Production Readiness Review Blocks/Modules/Sectors Complete	0	100%		30-Jul-20 A				08-May-20	0	0	\$0.00	
S194800	003	Procure EMCAL Mechanical Parts for Final Sectors - Provide Requirements to	11	100%	15-Apr-20 A	30-Apr-20 A			11-May-20	15-May-20	0	56	\$6,390.84	B
S194900		Procure EMCAL Mechanical Parts for Final Sectors - Prepare & Send Solicital	5	100%	23-Apr-20 A	30-Apr-20 A			18-May-20	01-Jun-20	0	0	\$0.00	
S195000		Procure EMCAL Mechanical Parts for Final Sectors - Vendor Responses	21	100%	01-Jun-20 A	30-Jun-20 A			02-Jun-20	15-Jun-20	0	0	\$0.00	
S195100		Procure EMCAL Mechanical Parts for Final Sectors - Vendor Selection	21	100%	01-Jun-20 A	30-Jun-20 A			16-Jun-20	14-Jul-20	0	0	\$0.00	
S195200		Procure EMCAL Mechanical Parts for Final Sectors - Contract Award(s)	0	100%	30-Jun-20 A				15-Jul-20		0	0	\$0.00	A-TEC
S195300		Procure EMCAL Mechanical Parts for Final Sectors - Contract/PO - Leadtime	104	100%	30-Jun-20 A	30-Nov-20 A			15-Jul-20	22-Oct-20	0	0	\$0.00	
S195400	015	Procure EMCAL Mechanical Parts for Final Sectors - Delivery Acceptance	187	100%	14-Sep-20 A	14-Jun-21 A			04-Jan-21	08-Jan-21	251357	0	\$291,746.13	A-TEC
S195500	003	Procure EMCAL Cooling System for Final Sectors - Provide Requirements to I	4	100%	09-Jun-20 A	15-Jun-20 A			11-May-20	15-May-20	0	56	\$8,246.84	B
S195600		Procure EMCAL Cooling System for Final Sectors - Prepare & Send Solicitatic	4	100%	09-Jun-20 A	15-Jun-20 A			18-May-20	01-Jun-20	0	0	\$0.00	
S195700		Procure EMCAL Cooling System for Final Sectors - Vendor Responses	24	100%	25-Jun-20 A	30-Jul-20 A			02-Jun-20	15-Jun-20	0	0	\$0.00	

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S195800		Procure EMCAL Cooling System for Final Sectors - Vendor Selection	1	100%	29-Jul-20 A	30-Jul-20 A			16-Jun-20	14-Jul-20	0	0	\$0.00	
S195900		Procure EMCAL Cooling System for Final Sectors - Contract Award(s)	0	100%	31-Jul-20 A				15-Jul-20		0	0	\$0.00	A-TEC
S196000		Procure EMCAL Cooling System for Final Sectors - Contract/PO - Leadtime	44	100%	22-Dec-20 A	26-Feb-21 A			15-Jul-20	22-Oct-20	0	0	\$0.00	
S196100	015	Procure EMCAL Cooling System for Final Sectors - Delivery Acceptance	209	100%	18-Jan-21 A	15-Nov-21 A			08-Feb-21	12-Feb-21	70893	0	\$82,284.39	A-TEC
S196200		Build mechanical enclosures for final sectors	305	100%	12-Jan-21 A	31-Mar-22 A			09-Oct-20	08-Jan-21	0	720	\$84,632.98	B
S196300		Build mechanical fixtures for final sectors	259	100%	14-Dec-20 A	28-Dec-21 A			10-Sep-20	08-Dec-20	0	720	\$84,632.98	B
S196400		Build cooling system for final sectors	305	100%	12-Jan-21 A	31-Mar-22 A			16-Nov-20	12-Feb-21	0	180	\$27,302.93	B
S196500	004	Install modules in final sectors	296	100%	26-Jan-21 A	31-Mar-22 A			14-Oct-20	13-Oct-21	0	1845	\$234,725.91	B
S196600		EMCal Modules Complete	0	100%		31-Mar-22 A				13-Oct-21	0	0	\$0.00	
S196700	004	Install readout electronics on final sectors	297	100%	22-Feb-21 A	28-Apr-22 A			16-Dec-20	15-Oct-21	0	1845	\$235,147.91	B
S196800	004	Install cables & cooling system on final sectors	297	100%	22-Feb-21 A	28-Apr-22 A			18-Dec-20	19-Oct-21	0	3573	\$500,103.40	B
S196900	004	Test final sectors with LEDs & cosmic rays	295	100%	23-Feb-21 A	27-Apr-22 A			22-Dec-20	21-Oct-21	0	5532	\$125,693.30	B_T
S196910	020	Technical support labor for EMCal assembly	307	100%	04-Jan-21 A	25-Mar-22 A			04-Jan-21	12-Jan-22	0	3520	\$281,618.43	A-TEC
S196920	030A	Further technician support for EMCal assembly	150	100%	01-Mar-22 A	30-Sep-22 A			01-Mar-22	30-Sep-22	0	1760	\$143,575.39	A-TEC
S197000	003	Repair or rework any sectors as required	302	100%	16-Mar-21 A	27-May-22 A			23-Dec-20	22-Oct-21	0	3921	\$252,650.88	B_T
S197100		EMCal Sectors Complete	0	100%		27-Apr-22 A				22-Oct-21	0	0	\$0.00	
S197300		EMCal Ready to Install	0	100%		28-Apr-22 A				12-Jan-22	0	0	\$0.00	
POM02.01.04 HCal			1195		01-Feb-17 A	09-Nov-21 A			01-Feb-17	19-Nov-21	7007349	23696	\$9,802,453.30	
S1001919	003	Actuals - Nonlabor - sPHENIX HCal FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	16812	0	\$18,547.64	A-TEC
S197400	003	Actuals - Labor - sPHENIX HCal FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	1557	\$260,083.43	B
S197500	003	Actuals - Labor - sPHENIX HCal FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	3467	\$579,301.03	B
S197510	003	Actuals - Labor - sPHENIX HCal FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	1571	\$262,446.12	B
S197600	003	Actuals - Nonlabor - sPHENIX HCal FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	2708	0	\$3,021.00	A-OPC
S197700	003	Actuals - Nonlabor - sPHENIX HCal FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	127709	0	\$142,473.39	A-OPC
S197710	003	Actuals - Nonlabor - sPHENIX HCal FY19M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	415146	0	\$458,015.62	A-OPC
POM02.01.04.01 Inner HCal Support Structure & Support Rings			840		02-Jul-18 A	09-Nov-21 A			02-Jul-18	19-Nov-21	2211281	808	\$2,442,665.10	
OBLG19911		Manufacture Inner HCal Support Structure - Obligation	1	100%	22-Jun-21 A	23-Jun-21 A			01-Oct-20	01-Oct-20	1077202	0	\$1,077,202.27	A-TEC
OBLG19981		Manufacture Inner HCal Support Rings - Obligation	0	100%	15-Feb-21 A	15-Feb-21 A			13-Feb-20	13-Feb-20	56896	0	\$56,896.29	A-TEC
S197800		Design Inner HCal Support Structure	39	100%	02-Jul-18 A	27-Aug-18 A			02-Jul-18	27-Aug-18	0	0	\$0.00	
S197801	004	Preliminary Design Review - Inner HCal Support Structure	0	100%		27-Aug-18 A				27-Aug-18	0	0	\$0.00	
S197900	004	Final Design Review. Procurement Readiness Review - Inner HCal Support	0	100%	24-Mar-20 A	24-Mar-20 A			10-Jun-19	12-Jun-19	0	48	\$6,935.89	B
S198000		Address Issues from Internal Review Support Structure	47	100%	25-Mar-20 A	29-May-20 A			13-Jun-19	26-Jun-19	0	36	\$4,837.41	B
S198100		Inner HCal Support Structure Design Complete	0	100%		29-May-20 A				24-Jul-19	0	0	\$0.00	
S198200		Manufacture Inner HCal Support Structure - Provide Requirements to Procure	8	100%	13-May-20 A	26-May-20 A			24-Jul-19	30-Jul-19	0	74	\$9,919.67	B
S198300		Design Inner HCal Support Rings FY18	62	100%	02-Jul-18 A	28-Sep-18 A			02-Jul-18	28-Sep-18	0	0	\$0.00	
S198400	005	Design Inner HCal Support Rings FY20	21	100%	01-May-19 A	31-May-19 A			01-May-19	31-May-19	0	0	\$0.00	B
S198401	004	Preliminary Design Review - Inner HCal Support Rings	0	100%		18-Mar-20 A				01-Nov-19	0	0	\$0.00	
S198402	005	Design Inner HCal Support Rings FY20 Split	114	100%	01-Oct-19 A	18-Mar-20 A			01-Oct-19	01-Nov-19	0	72	\$8,912.79	B
S198500	004	Final Design Review. Procurement Readiness Review - Inner HCal Support f	48	100%	24-Mar-20 A	29-May-20 A			04-Nov-19	05-Nov-19	0	48	\$6,935.89	B
S198600		Address Issues from Internal Review of Inner HCal Support Rings	5	100%	20-May-20 A	28-May-20 A			06-Nov-19	20-Nov-19	0	36	\$4,837.41	B
S198700		Inner HCal Support Rings Design Complete	0	100%		30-Jun-20 A				20-Nov-19	0	0	\$0.00	
S198800		Manufacture Inner HCal Support Structure - Prepare & Send Solicitation	116	100%	01-Jul-20 A	18-Dec-20 A			31-Jul-19	27-Aug-19	0	83	\$10,806.02	B
S198900		Manufacture Inner HCal Support Structure - Vendor Responses	2	100%	21-Dec-20 A	23-Dec-20 A			28-Aug-19	02-Oct-19	0	0	\$0.00	
S199000		Manufacture Inner HCal Support Structure - Vendor Selection	1	100%	24-Dec-20 A	28-Dec-20 A			03-Oct-19	17-Oct-19	0	127	\$16,711.86	B
S199100		Manufacture Inner HCal Support Structure - Contract Award(s)	0	100%	31-Dec-20 A				01-Oct-20		0	0	\$0.00	A-TEC

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S199200		Manufacture Inner HCAL Support Structure - Contract lead time	73	100%	15-Feb-21 A	28-May-21 A			01-Oct-20	05-Feb-21	0	0	\$0.00	
S199300	022	Manufacture Inner HCAL Support Structure - Delivery Acceptance 1	2	100%	28-Jun-21 A	30-Jun-21 A			21-Jun-21	25-Jun-21	237500	0	\$264,958.21	A-TEC
S199310	022	Manufacture Inner HCAL Support Structure - Delivery Acceptance 2	14	100%	10-Aug-21 A	30-Aug-21 A			16-Aug-21	20-Aug-21	237500	0	\$264,958.21	A-TEC
S199320	022	Manufacture Inner HCAL Support Structure - Delivery Acceptance 3	5	100%	24-Sep-21 A	30-Sep-21 A			24-Sep-21	30-Sep-21	237500	0	\$264,958.21	A-TEC
S199330	022	Manufacture Inner HCAL Support Structure - Delivery Acceptance 4	6	100%	01-Nov-21 A	09-Nov-21 A			15-Nov-21	19-Nov-21	237500	0	\$264,958.21	A-TEC
S199400		Manufacture Inner HCAL Support Rings - Provide Requirements to Procurem	102	100%	01-Jul-20 A	30-Nov-20 A			21-Nov-19	27-Nov-19	0	284	\$36,950.80	B
S199500		Manufacture Inner HCAL Support Rings - Prepare & Send Solicitation	44	100%	23-Sep-20 A	30-Nov-20 A			02-Dec-19	30-Dec-19	0	0	\$0.00	
S199600		Manufacture Inner HCAL Support Rings - Vendor Responses	20	100%	01-Dec-20 A	29-Dec-20 A			31-Dec-19	29-Jan-20	0	0	\$0.00	
S199700		Manufacture Inner HCAL Support Rings - Vendor Selection	2	100%	28-Dec-20 A	30-Dec-20 A			30-Jan-20	12-Feb-20	0	0	\$0.00	
S199800		Manufacture Inner HCAL Support Rings - Contract Award(s)	0	100%	30-Dec-20 A				13-Feb-20		0	0	\$0.00	A-TEC
S199900	009	Manufacture Inner HCAL Support Rings - Contract lead time	76	100%	04-Jan-21 A	22-Apr-21 A			13-Feb-20	17-Aug-20	0	0	\$0.00	
S200000	021	Manufacture Inner HCAL Support Rings - Delivery Acceptance	3	100%	17-May-21 A	20-May-21 A			06-Jul-21	12-Jul-21	127182	0	\$141,885.96	A-TEC
S200100		Inner HCAL Support Structure Ready for Installation	0	100%		09-Nov-21 A				12-Jul-21	0	0	\$0.00	
POM02.01.04.02 Outer HCAL Sector Mechanical Structure			718		10-May-18 A	26-Mar-21 A			10-May-18	29-Apr-20	655403	428	\$762,388.44	
OBLG20491		Procure Outer HCAL Splice Plates - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			01-Oct-19	01-Oct-19	303326	0	\$303,325.50	A-TEC
OBLG20601		Procure Outer HCAL Lifting Fixtures & Supports - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			13-Dec-19	13-Dec-19	45517	0	\$45,517.03	A-TEC
S203900		Design Revision of Outer HCAL Splice Plates (Dog bones)	41	100%	10-May-18 A	10-Jul-18 A			10-May-18	10-Jul-18	0	0	\$0.00	
S203901	004	Preliminary Design Review - Outer HCAL Splice Plates (Dog bones)	0	100%		10-Jul-18 A				10-Jul-18	0	0	\$0.00	
S204000	004	Internal Review of Outer HCAL Splice Plates (Dog bones)	1	100%	11-Jul-18 A	12-Jul-18 A			11-Jul-18	12-Jul-18	0	0	\$0.00	
S204100	004	Address Issues from Internal Review of Outer HCAL Splice Plates	9	100%	13-Jul-18 A	26-Jul-18 A			13-Jul-18	26-Jul-18	0	0	\$0.00	
S204200		Outer HCAL Splice Plate Design Complete	0	100%		26-Jul-18 A				26-Jul-18	0	0	\$0.00	
S204300	003	Procure Preproduction Outer HCAL Splice Plates - Delivery Acceptance	147	100%	16-Oct-18 A	20-May-19 A			16-Oct-18	20-May-19	0	0	\$0.00	A-OPC
S204400		Procure Preproduction Outer HCAL Splice Plates -Use in test assembly	32	100%	16-Apr-19 A	31-May-19 A			16-Apr-19	31-May-19	0	0	\$0.00	B
S204401	004,005	Final Design Review - Outer HCAL Splice Plates (Dog bones)	1	100%	17-Sep-19 A	18-Sep-19 A			03-Jun-19	03-Jun-19	0	16	\$2,354.14	B
S204450	004	Procurement Readiness Review - Outer HCAL Splice Plates (Dog bones)	1	100%	03-Feb-20 A	03-Feb-20 A			04-Jun-19	04-Jun-19	0	16	\$2,424.77	B
S204500		Procure Outer HCAL Splice Plates - Provide Requirements to Procurement	5	100%	04-Feb-20 A	10-Feb-20 A			05-Jun-19	11-Jun-19	0	72	\$9,409.94	B
S204600		Procure Outer HCAL Splice Plates - Prepare & Send Solicitation	9	100%	11-Feb-20 A	24-Feb-20 A			12-Jun-19	24-Jul-19	0	0	\$0.00	
S204700		Procure Outer HCAL Splice Plates - Vendor Responses	10	100%	02-Mar-20 A	13-Mar-20 A			25-Jul-19	07-Aug-19	0	0	\$0.00	
S204800		Procure Outer HCAL Splice Plates - Vendor Selection	20	100%	01-Apr-20 A	28-Apr-20 A			08-Aug-19	05-Sep-19	0	0	\$0.00	
S204900		Procure Outer HCAL Splice Plates - Contract Award(s)	0	100%	09-Jun-20 A				01-Oct-19		0	0	\$0.00	A-TEC
S205000		Procure Outer HCAL Splice Plates - Contract/PO - Leadtime	144	100%	01-Jul-20 A	01-Feb-21 A			01-Oct-19	12-Feb-20	0	0	\$0.00	
S205100		Procure Outer HCAL Splice Plates - Delivery Acceptance	24	100%	22-Feb-21 A	26-Mar-21 A			13-Feb-20	20-Feb-20	266560	0	\$309,392.01	A-TEC
S205200		Design Revision of Outer HCAL Lifting Fixture and Supports	38	100%	24-Jul-19 A	17-Sep-19 A			24-Jul-19	21-Aug-19	0	72	\$9,393.03	B
S205201	004	Preliminary Design Review - Outer HCAL Lifting Fixture and Supports	1	100%	01-Oct-19 A	01-Oct-19 A			21-Aug-19	21-Aug-19	0	12	\$1,733.97	B
S205300	004	Final Design Review, Procurement Readiness Review - Outer HCAL Lifting Fi	1	100%	02-Oct-19 A	02-Oct-19 A			22-Aug-19	22-Aug-19	0	24	\$3,467.94	B
S205400		Address Issues from Internal Review of Outer HCAL Lifting Fixture and Suppo	10	100%	03-Oct-19 A	17-Oct-19 A			23-Aug-19	06-Sep-19	0	36	\$4,837.41	B
S205500		Outer HCAL Lifting Fixture and Supports Design Complete	0	100%		17-Oct-19 A				06-Sep-19	0	0	\$0.00	
S205600		Procure Outer HCAL Lifting Fixtures & Supports - Provide Requirements to Pr	15	100%	01-Nov-19 A	25-Nov-19 A			09-Sep-19	13-Sep-19	0	180	\$25,015.68	B
S205700		Procure Outer HCAL Lifting Fixtures & Supports - Prepare & Send Solicitation	2	100%	13-Nov-19 A	15-Nov-19 A			16-Sep-19	28-Oct-19	0	0	\$0.00	
S205800		Procure Outer HCAL Lifting Fixtures & Supports - Vendor Responses	4	100%	15-Nov-19 A	21-Nov-19 A			29-Oct-19	12-Nov-19	0	0	\$0.00	
S205900		Procure Outer HCAL Lifting Fixtures & Supports - Vendor Selection	4	100%	19-Nov-19 A	25-Nov-19 A			13-Nov-19	12-Dec-19	0	0	\$0.00	
S206000		Procure Outer HCAL Lifting Fixtures & Supports - Contract Award(s)	0	100%	27-Nov-19 A				13-Dec-19		0	0	\$0.00	A-TEC
S206100		Procure Outer HCAL Lifting Fixtures & Supports - Contract/PO - Leadtime	5	100%	20-Nov-19 A	27-Nov-19 A			13-Dec-19	22-Apr-20	0	0	\$0.00	
S206200		Procure Outer HCAL Lifting Fixtures & Supports - Delivery Acceptance	46	100%	14-Nov-19 A	23-Jan-20 A			23-Apr-20	29-Apr-20	40000	0	\$45,517.03	A-TEC
POM02.01.04.03 Outer HCAL Procure Scintillating Tiles			980		01-Feb-17 A	04-Jan-21 A			01-Feb-17	08-Dec-20	3300284	1543	\$3,535,145.06	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
OBLG20811	004	Procure Outer HCAL Scintillating Tiles (Prod) - Obligation	0	100%	28-Jun-19 A	28-Jun-19 A			03-Jun-19	03-Jun-19	1756599	0	\$1,756,598.99	A-TEC
S206300		Design Outer HCAL Scintillating Tiles	39	100%	01-Feb-17 A	29-Mar-17 A			01-Feb-17	29-Mar-17	0	0	\$0.00	
S206400	004	Internal Review of OHCAL Scint. Tiles; First part of Procurement Readiness R	1	100%	30-Mar-17 A	31-Mar-17 A			30-Mar-17	31-Mar-17	0	0	\$0.00	
S206500		Address Issues from Internal Review of Outer HCAL Scintillating Tile	9	100%	03-Apr-17 A	14-Apr-17 A			03-Apr-17	14-Apr-17	0	0	\$0.00	
S206600		Outer HCAL Scintillating Tile Design Complete	0	100%		14-Apr-17 A				14-Apr-17	0	0	\$0.00	
S206700		Design Outer HCAL Light Collection	19	100%	23-Mar-17 A	19-Apr-17 A			23-Mar-17	19-Apr-17	0	0	\$0.00	
S206800	004	Internal Review of OHCAL Light collections; Second part of Procurement Rea	0	100%	20-Apr-17 A	20-Apr-17 A			20-Apr-17	20-Apr-17	0	0	\$0.00	
S206900		Address Issues from Internal Review of Outer HCAL Light Collection	9	100%	21-Apr-17 A	04-May-17 A			21-Apr-17	04-May-17	0	0	\$0.00	
S207000		Outer HCAL Light Collection Complete	0	100%		04-May-17 A				04-May-17	0	0	\$0.00	
S207100		Design Outer HCAL LED/Fiber Calibration System	19	100%	28-Apr-17 A	25-May-17 A			28-Apr-17	25-May-17	0	0	\$0.00	
S207200	004	Internal Review of OHCAL LED/Fiber calibration; Third part of Procurement R	1	100%	26-May-17 A	30-May-17 A			26-May-17	30-May-17	0	0	\$0.00	
S207300		Address Issues from Internal Review of Outer HCAL LED/Fiber Calibration Sy	9	100%	31-May-17 A	13-Jun-17 A			31-May-17	13-Jun-17	0	0	\$0.00	
S207400		Outer HCAL LED/Fiber Calibration Conceptual Design Complete	0	100%		13-Jun-17 A				13-Jun-17	0	0	\$0.00	
S207500		Procure Outer HCAL LED/Calibration Fibers Labor	59	100%	01-Mar-19 A	23-May-19 A			01-Mar-19	23-May-19	0	0	\$0.00	B
S207600	003	Procure Outer HCAL LED/Calibration Fibers M&S	59	100%	01-Mar-19 A	23-May-19 A			01-Mar-19	23-May-19	0	0	\$0.00	A-TEC
S207700		Procure Outer HCAL Scintillating Tiles (Prod) - Provide Requirements to Proci	0	100%	02-Jul-18 A	02-Jul-18 A			02-Jul-18	02-Jul-18	0	0	\$0.00	
S207800		Procure Outer HCAL Scintillating Tiles (Prod) - Prepare & Send Solicitation	13	100%	10-Jul-18 A	27-Jul-18 A			10-Jul-18	27-Jul-18	0	0	\$0.00	
S207900		Procure Outer HCAL Scintillating Tiles (Prod) - Vendor Responses	9	100%	30-Jul-18 A	10-Aug-18 A			30-Jul-18	10-Aug-18	0	0	\$0.00	
S208000		Procure Outer HCAL Scintillating Tiles (Prod) - Vendor Selection	3	100%	13-Aug-18 A	16-Aug-18 A			13-Aug-18	16-Aug-18	0	0	\$0.00	
S208100		Procure Outer HCAL Scintillating Tiles (Prod) - Contract Award(s)	0	100%	15-Apr-19 A				15-Apr-19		0	0	\$0.00	A-TEC
S208200		Procure Outer HCAL Scintillating Tiles (Prod) - Contract/PO - Leadtime	81	100%	03-Jun-19 A	26-Sep-19 A			03-Jun-19	17-Sep-19	0	0	\$0.00	A-TEC
S208220	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 0	4	100%	18-Sep-19 A	24-Sep-19 A			18-Sep-19	24-Sep-19	185242	0	\$204,371.02	A-TEC
S208300	004	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 1	27	100%	25-Sep-19 A	04-Nov-19 A			10-Oct-19	17-Oct-19	143106	0	\$159,650.99	A-TEC
S208302	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 2	9	100%	12-Nov-19 A	25-Nov-19 A			15-Nov-19	21-Nov-19	113203	0	\$126,290.80	A-TEC
S208303	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 3	7	100%	20-Jan-20 A	30-Jan-20 A			18-Dec-19	18-Dec-19	113203	0	\$126,290.80	A-TEC
S208304	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 4	7	100%	20-Jan-20 A	30-Jan-20 A			18-Mar-20	24-Mar-20	113203	0	\$126,290.80	A-TEC
S208306	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 5&6	5	100%	15-Jun-20 A	22-Jun-20 A			18-May-20	22-May-20	226406	0	\$252,581.59	A-TEC
S208308	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 7&8	5	100%	23-Jun-20 A	30-Jun-20 A			20-Jul-20	24-Jul-20	226406	0	\$252,581.59	A-TEC
S208310	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 9&10	48	100%	23-Jun-20 A	31-Aug-20 A			14-Sep-20	18-Sep-20	211458	0	\$235,905.40	A-TEC
S208312	007	Procure Outer HCAL Scintillating Tiles (Prod) - Delivery Acceptance 11&12	70	100%	17-Aug-20 A	30-Nov-20 A			16-Nov-20	20-Nov-20	211458	0	\$235,905.40	A-TEC
S208400		Outer HCAL Scintillating Tile Acceptance Testing	130	100%	15-Jun-20 A	22-Dec-20 A			01-Jun-20	08-Dec-20	0	650	\$11,640.88	A-TEC
S208410		Outer HCAL Scintillating Tile Acceptance Testing - Contributed Labor	118	100%	01-Jul-20 A	22-Dec-20 A			01-Jun-20	08-Dec-20	0	893	\$47,036.79	B_T
S208500		Completion of Outer HCAL Scintillating Tile Testing	0	100%		04-Jan-21 A				08-Dec-20	0	0	\$0.00	
POM02.01.04.04 Outer HCAL Sector Assembly and Testing			1062		01-Feb-17 A	30-Apr-21 A			01-Feb-17	17-Sep-21	278008	14323	\$1,338,366.46	
POM02.01.04.04.01 Outer HCAL Sector Assembly and Testing - Preproduction			993		01-Feb-17 A	22-Jan-21 A			01-Feb-17	02-Jul-20	23303	3045	\$257,931.97	
OBLG2017		Procure Outer HCAL Scint. Tiles for Preproduction - Obligation Batch 1	0	100%	17-Aug-18 A	17-Aug-18 A			17-Aug-18	17-Aug-18	0	0	\$0.00	A-OPC
OBLG2018		Procure Outer HCAL Scint. Tiles for Preproduction - Obligation Batch 2	0	100%	17-Aug-18 A	17-Aug-18 A			17-Aug-18	17-Aug-18	0	0	\$0.00	A-OPC
OBLG2019		Procure Outer HCAL Scint. Tiles for Preproduction - Obligation Batch 3	0	100%	17-Aug-18 A	17-Aug-18 A			17-Aug-18	17-Aug-18	0	0	\$0.00	A-OPC
OBLG2088		Procure Contracted Labor Georgia State Univ. (GSU), Phase 1 - Obligation	1	100%	03-Sep-19 A	03-Sep-19 A			03-Jun-19	03-Jun-19	16503	0	\$16,503.00	A-OPC
S200200	003	Outer HCAL Prototype v2.0 Test Beam Operation	16	100%	01-Feb-17 A	24-Feb-17 A			01-Feb-17	24-Feb-17	0	0	\$0.00	
S200300	003	Complete Outer HCAL Prototype v2.0	0	100%		24-Feb-17 A				24-Feb-17	0	0	\$0.00	
S200400	003	Procurement for Outer HCAL Prototype v2.1 Mechanical Structure	59	100%	01-Feb-17 A	26-Apr-17 A			01-Feb-17	26-Apr-17	0	0	\$0.00	
S200500	003	Award Procurement for Outer HCAL Prototype v2.1 Mechanical Structure	0	100%		26-Apr-17 A				26-Apr-17	0	0	\$0.00	
S200600	003	Outer HCAL Prototype v2.1 Mechanical Structure Production	79	100%	27-Apr-17 A	18-Aug-17 A			27-Apr-17	18-Aug-17	0	0	\$0.00	
S200700	003	Incorporate Feedback from Prototype v2.1 into Outer HCAL Design	9	100%	21-Aug-17 A	01-Sep-17 A			21-Aug-17	01-Sep-17	0	0	\$0.00	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S200800	003	Complete Outer HCAL Prototype v2.1	0	100%		01-Sep-17 A				01-Sep-17	0	0	\$0.00	
S200801	004	Preliminary Design Review - Outer HCAL Sector Assembly 1-6	0	100%		01-Sep-17 A				01-Sep-17	0	0	\$0.00	
S200900	003	Procure Scintillating Tiles for HCAL Prototype v2.1	24	100%	20-Jun-17 A	25-Jul-17 A			20-Jun-17	25-Jul-17	0	0	\$0.00	
S201000	003	Award Procurement for Scintillating Tiles for HCAL Test Beam Prototype v2.1	0	100%		26-Jul-17 A				26-Jul-17	0	0	\$0.00	
S201100	003	Fabricate HCAL Prototype v2.1 Tiles & Ship to BNL	87	100%	27-Jul-17 A	04-Dec-17 A			27-Jul-17	04-Dec-17	0	0	\$0.00	
S201200	003,004	Inspect HCAL Prototype v2.1 Scintillating Tiles and Final Design Review and	9	100%	05-Dec-17 A	18-Dec-17 A			05-Dec-17	18-Dec-17	0	0	\$0.00	
S201201	003,004	Final Design Review - Outer HCAL Sector Assembly 1-6	0	100%		18-Dec-17 A				18-Dec-17	0	0	\$0.00	
S201300	003	Procure Outer HCAL Scint. Tiles for Preproduction - Provide Requirements to	35	100%	10-May-18 A	29-Jun-18 A			10-May-18	29-Jun-18	0	0	\$0.00	
S201400	003	Procure Outer HCAL Scint. Tiles for Preproduction - Prepare & Send Solicitati	18	100%	02-Jul-18 A	27-Jul-18 A			02-Jul-18	27-Jul-18	0	0	\$0.00	
S201500	003	Procure Outer HCAL Scint. Tiles for Preproduction - Vendor Responses	9	100%	30-Jul-18 A	10-Aug-18 A			30-Jul-18	10-Aug-18	0	0	\$0.00	
S201600	003	Procure Outer HCAL Scint. Tiles for Preproduction - Vendor Selection	3	100%	13-Aug-18 A	16-Aug-18 A			13-Aug-18	16-Aug-18	0	0	\$0.00	
S201700	003	Procure Outer HCAL Scint. Tiles for Preproduction - Contract Award(s) Batch 1	0	100%	17-Aug-18 A				17-Aug-18		0	0	\$0.00	A-OPC
S201800	003	Procure Outer HCAL Scint. Tiles for Preproduction - Contract Award(s) Batch 2	0	100%	17-Aug-18 A				17-Aug-18		0	0	\$0.00	A-OPC
S201900	003	Procure Outer HCAL Scint. Tiles for Preproduction - Contract Award(s) Batch 3	0	100%	17-Aug-18 A				17-Aug-18		0	0	\$0.00	A-OPC
S202000	003	Procure Outer HCAL Scint. Tiles for Preproduction - Contract lead time FY18	29	100%	17-Aug-18 A	28-Sep-18 A			17-Aug-18	28-Sep-18	0	0	\$0.00	
S202100	003	Procure Outer HCAL Scint. Tiles for Preproduction - Contract lead time FY19	105	100%	01-Oct-18 A	07-Mar-19 A			01-Oct-18	07-Mar-19	0	0	\$0.00	
S202200	003	Procure Outer HCAL Scint. Tiles for Preproduction - Delivery Acceptance Batc	11	100%	12-Mar-19 A	27-Mar-19 A			12-Mar-19	27-Mar-19	0	0	\$0.00	A-OPC
S202300	003	Procure Outer HCAL Scint. Tiles for Preproduction - Delivery Acceptance Batc	14	100%	03-Apr-19 A	23-Apr-19 A			03-Apr-19	23-Apr-19	0	0	\$0.00	A-OPC
S202400	003	Procure Outer HCAL Scint. Tiles for Preproduction - Delivery Acceptance Batc	15	100%	02-May-19 A	23-May-19 A			02-May-19	23-May-19	0	0	\$0.00	A-OPC
S202500	003	Outer HCAL Scintillating Tile Acceptance Testing (Preproduction), Contributed	4	100%	24-May-19 A	31-May-19 A			24-May-19	31-May-19	0	0	\$0.00	B_T
S202502	003	Outer HCAL Scintillating Tile Acceptance Testing (Preproduction), Contributed	10	100%	01-Jul-19 A	15-Jul-19 A			03-Jun-19	15-Jul-19	0	220	\$18,803.34	B_T
S202510	003	Outer HCAL Scintillating Tile Acceptance Testing (Preproduction)	4	100%	24-May-19 A	31-May-19 A			24-May-19	31-May-19	0	0	\$0.00	A-OPC
S202512	003	Outer HCAL Scintillating Tile Acceptance Testing (Preproduction) Split	9	100%	01-Jul-19 A	15-Jul-19 A			03-Jun-19	26-Aug-19	0	125	\$2,116.89	A-OPC
S202600	003	Completion of Outer HCAL Scintillating Tile Procurement (Preproduction)	0	100%		01-Jul-19 A				03-Jun-19	0	0	\$0.00	
S202700	003	Procure Table for Outer HCAL sector assembly and testing area (Preproductio	111	100%	16-Oct-18 A	28-Mar-19 A			16-Oct-18	28-Mar-19	0	0	\$0.00	B_T
S202800	003	Procure Miscellaneous Tools for Outer HCAL sector assembly and testing are:	64	100%	01-Mar-19 A	31-May-19 A			01-Mar-19	31-May-19	0	0	\$0.00	B_T
S202802	003	Procure Miscellaneous Tools for Outer HCAL sector assembly and testing are:	121	100%	03-Jun-19 A	25-Nov-19 A			03-Jun-19	19-Sep-19	0	4	\$232.23	B_T
S202900	003	Procure Table for Outer HCAL sector assembly and testing area (Preproductio	111	100%	16-Oct-18 A	28-Mar-19 A			16-Oct-18	28-Mar-19	0	0	\$0.00	A-OPC
S203000	003	Procure Miscellaneous Tools for Outer HCAL sector assembly and testing are:	64	100%	01-Mar-19 A	31-May-19 A			01-Mar-19	31-May-19	0	0	\$0.00	A-OPC
S203002	003	Procure Miscellaneous Tools for Outer HCAL sector assembly and testing are:	121	100%	03-Jun-19 A	25-Nov-19 A			03-Jun-19	19-Sep-19	2000	0	\$2,206.53	A-OPC
S203050	003,004	Production Readiness Review - Outer HCAL Sector Assembly 1-6	3	100%	13-Nov-19 A	18-Nov-19 A			30-Oct-19	30-Oct-19	0	16	\$1,329.67	B_T
S203100	003	Populate Outer HCAL sectors with scintillating tiles (Preproduction)	20	100%	02-Aug-19 A	30-Aug-19 A			31-Oct-19	30-Jan-20	0	248	\$3,447.48	A-OPC
S203110	003	Populate Outer HCAL sectors with scintillating tiles (Preproduction) - Contribu	20	100%	02-Aug-19 A	30-Aug-19 A			31-Oct-19	30-Jan-20	0	531	\$60,608.21	B_T
S203200	003	Populate Outer HCAL sectors with electronics (Preproduction)	331	100%	01-Aug-19 A	30-Nov-20 A			27-Feb-20	20-May-20	0	248	\$3,590.65	A-OPC
S203210	003	Populate Outer HCAL sectors with electronics (Preproduction) - Contributed L	331	100%	01-Aug-19 A	30-Nov-20 A			27-Feb-20	20-May-20	0	531	\$60,608.21	B_T
S203300	003	Outer HCAL Sector LED testing and Light Tighting (Preproduction) Labor	288	100%	04-Nov-19 A	30-Dec-20 A			12-Mar-20	04-Jun-20	0	248	\$3,590.65	A-OPC
S203310	003	Outer HCAL Sector LED testing and Light Tighting (Preproduction) - Contribut	288	100%	04-Nov-19 A	30-Dec-20 A			12-Mar-20	04-Jun-20	0	407	\$48,275.31	B_T
S203400	003	Outer HCAL Sector LED testing and Light Tighting (Preproduction) M&S	288	100%	04-Nov-19 A	30-Dec-20 A			12-Mar-20	04-Jun-20	4800	0	\$5,462.04	A-OPC
S203500	003	Outer HCAL Cosmics testing and initial calibration (Preproduction)	274	100%	25-Nov-19 A	30-Dec-20 A			26-Mar-20	18-Jun-20	0	248	\$3,590.65	A-OPC
S203510	003	Outer HCAL Cosmics testing and initial calibration (Preproduction) - Contribut	274	100%	25-Nov-19 A	30-Dec-20 A			26-Mar-20	18-Jun-20	0	159	\$19,973.02	B_T
S203600	003	Outer HCAL Sector Transportation to Storage Area (Preproduction)	39	100%	23-Nov-20 A	22-Jan-21 A			09-Apr-20	02-Jul-20	0	60	\$7,594.08	B
S203700	003	Build Tile Test Box/Fixture Labor	417	100%	01-Feb-17 A	28-Sep-18 A			01-Feb-17	28-Sep-18	0	0	\$0.00	
S203800	003	Build Tile Test Box/Fixture M&S	417	100%	01-Feb-17 A	28-Sep-18 A			01-Feb-17	28-Sep-18	0	0	\$0.00	
S208600	003	Procure Contracted Labor Georgia State Univ. (GSU) - Provide Requirements	4	100%	01-Oct-18 A	05-Oct-18 A			01-Oct-18	05-Oct-18	0	0	\$0.00	
S208700	003	Procure Contracted Labor Georgia State Univ. (GSU) - Vendor Selection	92	100%	16-Oct-18 A	04-Mar-19 A			16-Oct-18	04-Mar-19	0	0	\$0.00	

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S208800	003,004	Procure Contracted Labor Georgia State Univ. (GSU), Phase 1 - Contract Awa	0	100%	07-Aug-19 A				03-Jun-19		0	0	\$0.00	A-OPC
S208900	003,004	Procure Contracted Labor Georgia State Univ. (GSU), Phase 1 - Delivery Acce	18	100%	07-Aug-19 A	30-Aug-19 A			03-Jun-19	26-Aug-19	0	0	\$0.00	A-OPC
POM02.01.04.02 Outer HCal Sector Assembly and Testing - Production			414		03-Sep-19 A	30-Apr-21 A			27-Aug-19	17-Sep-21	254705	11278	\$1,080,434.49	
OBLG2094		Procure Outer HCal Assembly & Testing Equipment - Obligation	1	100%	02-Sep-20 A	02-Sep-20 A			22-Sep-20	22-Sep-20	87051	0	\$87,051.34	A-TEC
OBLG2106		Procure Contracted Labor Georgia State Univ. (GSU) - Obligation	1	100%	03-Sep-19 A	03-Sep-19 A			27-Aug-19	27-Aug-19	73454	0	\$73,453.74	A-TEC
S209000	003	Procure Outer HCal Assembly & Testing Equipment - Provide Requirements	2	100%	03-Jun-20 A	05-Jun-20 A			19-Jun-20	25-Jun-20	0	160	\$9,567.74	B_T
S209100	003	Procure Outer HCal Assembly & Testing Equipment - Prepare & Send Solicit	2	100%	03-Jun-20 A	05-Jun-20 A			26-Jun-20	07-Aug-20	0	0	\$0.00	
S209200	003	Procure Outer HCal Assembly & Testing Equipment - Vendor Responses	2	100%	03-Jun-20 A	05-Jun-20 A			10-Aug-20	21-Aug-20	0	0	\$0.00	
S209300	003	Procure Outer HCal Assembly & Testing Equipment - Vendor Selection	2	100%	03-Jun-20 A	05-Jun-20 A			24-Aug-20	21-Sep-20	0	0	\$0.00	
S209400	003	Procure Outer HCal Assembly & Testing Equipment - Contract Award(s)	0	100%	05-Jun-20 A				22-Sep-20		0	0	\$0.00	A-TEC
S209500	003	Procure Outer HCal Assembly & Testing Equipment - Contract/PO - Leadtime	26	100%	08-Jun-20 A	15-Jul-20 A			22-Sep-20	18-Nov-20	0	0	\$0.00	
S209600	003	Procure Outer HCal Assembly & Testing Equipment- Delivery Acceptance	8	100%	20-Jul-20 A	30-Jul-20 A			19-Nov-20	25-Nov-20	75000	0	\$85,344.43	A-TEC
S209700	003	Prepare Outer HCal Assembly Area for Production	10	100%	10-Aug-20 A	24-Aug-20 A			30-Nov-20	28-Dec-20	0	800	\$58,226.41	B_T
S209701	003,004	Production Readiness Review - OHCal Sector Assembly 7-32	4	100%	25-Aug-20 A	31-Aug-20 A			28-Dec-20	28-Dec-20	0	16	\$1,369.56	B
S209800	003	Populate Outer HCal sectors with scintillating tiles	152	100%	17-Aug-20 A	30-Mar-21 A			17-Feb-21	19-Aug-21	0	1040	\$15,509.30	A-TEC
S209810	003	Populate Outer HCal sectors with scintillating tiles - Contributed Labor	152	100%	17-Aug-20 A	30-Mar-21 A			17-Feb-21	19-Aug-21	0	1787	\$199,251.07	B_T
S209900	003	Populate Outer HCal sectors with electronics	71	100%	15-Dec-20 A	30-Mar-21 A			24-Feb-21	26-Aug-21	0	1040	\$15,509.30	A-TEC
S209910	003	Populate Outer HCal sectors with electronics - Contributed Labor	71	100%	15-Dec-20 A	30-Mar-21 A			24-Feb-21	26-Aug-21	0	1787	\$199,251.07	B_T
S210000	003	Outer HCal Sector LED testing and Light Tighting	71	100%	15-Dec-20 A	30-Mar-21 A			03-Mar-21	02-Sep-21	0	1040	\$15,509.30	A-TEC
S210010	003	Outer HCal Sector LED testing and Light Tighting - Contributed Labor	71	100%	15-Dec-20 A	30-Mar-21 A			03-Mar-21	02-Sep-21	0	1787	\$199,251.07	B_T
S210100	003	Procure Outer HCal LED Testing & Light Tighting M&S	71	100%	15-Dec-20 A	30-Mar-21 A			03-Mar-21	02-Sep-21	19200	0	\$22,285.14	A-TEC
S210200	003	Outer HCal Cosmics testing and initial calibration	71	100%	15-Dec-20 A	30-Mar-21 A			10-Mar-21	10-Sep-21	0	1040	\$15,509.30	A-TEC
S210210	003	Outer HCal Cosmics testing and initial calibration - Contributed Labor	71	100%	15-Dec-20 A	30-Mar-21 A			10-Mar-21	10-Sep-21	0	469	\$44,325.70	B_T
S210300	003	Outer HCal Sector Transportation to Temp Storage	77	100%	11-Jan-21 A	30-Apr-21 A			17-Mar-21	17-Sep-21	0	312	\$39,020.04	B
S210310	020	Technical support labor for HCal	22	100%	01-Mar-21 A	31-Mar-21 A			01-Apr-21	17-Sep-21	0	0	\$0.00	A-TEC
S210400	003	First Outer HCal Sector and Splice Plates Ready to Install	0	100%		25-Feb-21 A				23-Mar-21	0	0	\$0.00	
S210500	003	Last Outer HCal Sector Ready to Install	0	100%		29-Mar-21 A				17-Sep-21	0	0	\$0.00	
S210600	003,004	Procure Contracted Labor Georgia State Univ. (GSU), Phase 2 - Contract Awa	0	100%	02-Dec-19 A				27-Aug-19		0	0	\$0.00	A-TEC
S210700	003,004	Procure Contracted Labor Georgia State Univ. (GSU), Phase 2 - Delivery Acce	21	100%	02-Dec-19 A	31-Dec-19 A			27-Aug-19	25-Aug-20	0	0	\$0.00	A-TEC
POM02.01.05 Calorimeter Electronics			1331		01-Feb-17 A	27-May-22 A			01-Feb-17	05-Aug-21	8878893	21106	\$12,147,209.40	
S1000839	003	Actuals - Labor - sPHENIX Calorimeter Electronics FY19 M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	2520	\$421,099.15	B
S1000879	003	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY19 M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	347247	0	\$383,105.09	A-OPC
S1001959	003	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY19 M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	58345	0	\$64,370.01	A-TEC
S211200	003	Actuals - Labor - sPHENIX Calorimeter Electronics FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	1634	\$273,081.59	B
S211300	003	Actuals - Labor - sPHENIX Calorimeter Electronics FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	3554	\$593,809.71	B
S211400	003	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	29927	0	\$33,387.00	A-OPC
S211500	003	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	35131	0	\$39,192.59	A-OPC
POM02.01.05.01 SiPMs			769		01-Feb-17 A	02-Mar-20 A			01-Feb-17	21-Jul-20	621610	2961	\$827,968.05	
OBLG2126C	003,004	EMCal/HCal sensors Preproduction - 23K Units - Obligation	1	100%	12-Sep-18 A	13-Sep-18 A			12-Sep-18	13-Sep-18	0	0	\$0.00	A-OPC
OBLG21271	003,004	EMCal/HCal sensors Production - 77K Units - Obligation	0	100%	12-Sep-18 A	12-Sep-18 A			12-Sep-18	12-Sep-18	0	0	\$0.00	A-TEC
S211600	004	Write and Review Design Change Specifications for Optical Sensors: Sector C	9	100%	01-Feb-17 A	14-Feb-17 A			01-Feb-17	14-Feb-17	0	0	\$0.00	
S211601	004	Final Design Review - EMCal, OHCal - Silicon Photomultipliers (LLP)	0	100%		14-Feb-17 A				14-Feb-17	0	0	\$0.00	
S211700	004	Write and Review Design Change Specifications for Optical Sensors: Sector C	19	100%	15-Feb-17 A	15-Mar-17 A			15-Feb-17	15-Mar-17	0	0	\$0.00	
S211800	002	Order Sensors: Sector 0 - Labor	119	100%	16-Mar-17 A	01-Sep-17 A			16-Mar-17	01-Sep-17	0	0	\$0.00	
S211900	002	Order Sensors: Sector 0 - M&S	119	100%	16-Mar-17 A	01-Sep-17 A			16-Mar-17	01-Sep-17	0	0	\$0.00	

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S212000		Q/A Delivered Sensors: Sector 0 - Labor	72	100%	05-Sep-17 A	20-Dec-17 A			05-Sep-17	20-Dec-17	0	0	\$0.00	
S212100		Q/A Delivered Sensors: Sector 0 - M&S	72	100%	05-Sep-17 A	20-Dec-17 A			05-Sep-17	20-Dec-17	0	0	\$0.00	
S212200	002,004	EMCal/HCal Sensors Tested, Delivered and Procurement Readiness Review:	0	100%		20-Dec-17 A				20-Dec-17	0	0	\$0.00	
S212201	002,004	Procurement Readiness Review - EMCal, OHCal - Silicon Photomultipliers (L	0	100%		20-Dec-17 A				20-Dec-17	0	0	\$0.00	
S212300	002	EMCal/HCal sensors Preproduction - Provide Requirements to Procurement	33	100%	30-Apr-18 A	15-Jun-18 A			30-Apr-18	15-Jun-18	0	0	\$0.00	
S212400	002	EMCal/HCal sensors Preproduction - Prepare & Send Solicitation	44	100%	02-Jul-18 A	04-Sep-18 A			02-Jul-18	04-Sep-18	0	0	\$0.00	
S212500	002	EMCal/HCal sensors Preproduction - Vendor Responses & Selection	14	100%	16-Aug-18 A	06-Sep-18 A			16-Aug-18	06-Sep-18	0	0	\$0.00	
S212600		EMCal/HCal sensors Preproduction - 23K Units - Contract Award	0	100%	12-Sep-18 A				12-Sep-18		0	0	\$0.00	A-OPC
S212700	002,004	EMCal/HCal sensors Production - 77K Units - Contract Award	0	100%	12-Sep-18 A				12-Sep-18		0	0	\$0.00	A-TEC
S212800	002	EMCal/HCal sensors Preproduction - Vendor Leadtime FY18	11	100%	13-Sep-18 A	28-Sep-18 A			13-Sep-18	28-Sep-18	0	0	\$0.00	
S212900	002,004	EMCal/HCal sensors Preproduction - Vendor Leadtime FY19	101	100%	01-Nov-18 A	02-Apr-19 A			01-Nov-18	02-Apr-19	0	0	\$0.00	
S213000	002	EMCal/HCal sensors Preproduction - 8K Units - Delivery Acceptance No. 1	26	100%	04-Mar-19 A	09-Apr-19 A			04-Mar-19	09-Apr-19	0	0	\$0.00	A-OPC
S213010	002	EMCal/HCal sensors Preproduction - 8K Units - Delivery Acceptance No. 2	24	100%	04-Feb-19 A	11-Mar-19 A			04-Feb-19	11-Mar-19	0	0	\$0.00	A-OPC
S213100	002	EMCal/HCal sensors Preproduction - 7K Units - Delivery Acceptance No. 3	24	100%	16-Apr-19 A	20-May-19 A			16-Apr-19	20-May-19	0	0	\$0.00	A-OPC
S213200	002,003	Prepro Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 1	41	100%	03-Jun-19 A	31-Jul-19 A			03-Jun-19	28-Jun-19	0	80	\$1,225.95	A-OPC
S213205	002,003	Prepro Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 1 - Contribu	41	100%	03-Jun-19 A	31-Jul-19 A			03-Jun-19	28-Jun-19	0	157	\$9,579.37	B_T
S213210	002,003	Prepro Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 2	9	100%	01-Jul-19 A	15-Jul-19 A			03-Jun-19	28-Jun-19	0	80	\$1,225.95	A-OPC
S213215	002,003	Prepro Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 2 - Contribu	9	100%	01-Jul-19 A	15-Jul-19 A			03-Jun-19	28-Jun-19	0	157	\$9,579.37	B_T
S213300	002,003	Prepro Q/A Tested & Sorted devices 7 K Units Delivery Batch No. 3	21	100%	01-Jul-19 A	31-Jul-19 A			03-Jun-19	28-Jun-19	0	70	\$1,072.70	A-OPC
S213305	002,003	Prepro Q/A Tested & Sorted devices 7 K Units Delivery Batch No. 3 - Contribu	21	100%	01-Jul-19 A	31-Jul-19 A			03-Jun-19	28-Jun-19	0	137	\$8,292.59	B_T
S214700	002	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 4	8	100%	21-May-19 A	03-Jun-19 A			21-May-19	03-Jun-19	0	0	\$0.00	A-TEC
S214800	002,004	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 5	20	100%	03-Jun-19 A	28-Jun-19 A			03-Jun-19	28-Jun-19	69520	0	\$76,698.99	A-TEC
S214900	002	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 6	19	100%	01-Jul-19 A	26-Jul-19 A			01-Jul-19	26-Jul-19	69520	0	\$76,698.99	A-TEC
S215000	002,004	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 7	11	100%	16-Aug-19 A	31-Aug-19 A			29-Jul-19	29-Aug-19	69520	0	\$76,698.99	A-TEC
S215100	002	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 8	2	100%	01-Oct-19 A	03-Oct-19 A			30-Aug-19	27-Sep-19	69520	0	\$77,557.45	A-TEC
S215200	002	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 9	9	100%	01-Nov-19 A	14-Nov-19 A			30-Sep-19	25-Oct-19	69520	0	\$77,557.45	A-TEC
S215300	002	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 10	10	100%	16-Dec-19 A	31-Dec-19 A			28-Oct-19	02-Dec-19	69520	0	\$77,557.45	A-TEC
S215310	002	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 11	11	100%	02-Jan-20 A	16-Jan-20 A			03-Dec-19	03-Jan-20	69520	0	\$77,557.45	A-TEC
S215320	002	EMCal/HCal sensors Production - 8K Units - Delivery Acceptance No. 12	1	100%	03-Feb-20 A	04-Feb-20 A			06-Jan-20	31-Jan-20	69520	0	\$77,557.45	A-TEC
S215400	002	EMCal/HCal sensors Production - 5K Units - Delivery Acceptance No. 13	1	100%	03-Feb-20 A	04-Feb-20 A			03-Feb-20	28-Feb-20	43450	0	\$48,473.41	A-TEC
S215500	002	EMCal/HCal sensors Production: - delivery complete	0	100%		02-Mar-20 A				28-Feb-20	0	0	\$0.00	
S215600	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 4	63	100%	01-Jul-19 A	30-Sep-19 A			02-Oct-19	30-Oct-19	0	80	\$1,225.95	A-TEC
S215605	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 4 - Cont	63	100%	01-Jul-19 A	30-Sep-19 A			01-Oct-19	29-Oct-19	0	157	\$9,579.37	B_T
S215800	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 5	125	100%	01-Jul-19 A	31-Dec-19 A			31-Oct-19	02-Dec-19	0	80	\$1,276.86	A-TEC
S215805	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 5 - Cont	125	100%	01-Jul-19 A	31-Dec-19 A			30-Oct-19	27-Nov-19	0	157	\$9,579.37	B_T
S215900	002,003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 6	102	100%	01-Aug-19 A	31-Dec-19 A			03-Dec-19	31-Dec-19	0	80	\$1,276.86	A-TEC
S215905	002,003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 6 - Cont	102	100%	01-Aug-19 A	31-Dec-19 A			02-Dec-19	30-Dec-19	0	157	\$9,579.37	B_T
S216000	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 7	20	100%	02-Jan-20 A	30-Jan-20 A			02-Jan-20	30-Jan-20	0	80	\$1,276.86	A-TEC
S216005	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 7 - Cont	20	100%	02-Jan-20 A	30-Jan-20 A			31-Dec-19	29-Jan-20	0	157	\$9,866.76	B_T
S216100	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 8	18	100%	03-Feb-20 A	28-Feb-20 A			31-Jan-20	28-Feb-20	0	80	\$1,276.86	A-TEC
S216105	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 8 - Cont	18	100%	03-Feb-20 A	28-Feb-20 A			30-Jan-20	27-Feb-20	0	157	\$9,866.76	B_T
S216200	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 9	18	100%	03-Feb-20 A	28-Feb-20 A			02-Mar-20	27-Mar-20	0	80	\$1,276.86	A-TEC
S216205	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 9 - Cont	18	100%	03-Feb-20 A	28-Feb-20 A			28-Feb-20	26-Mar-20	0	157	\$9,866.76	B_T
S216300	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 10	18	100%	03-Feb-20 A	28-Feb-20 A			30-Mar-20	24-Apr-20	0	80	\$1,276.86	A-TEC
S216305	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 10 - Cor	18	100%	03-Feb-20 A	28-Feb-20 A			27-Mar-20	23-Apr-20	0	157	\$9,866.76	B_T

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S216310	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 11	18	100%	03-Feb-20 A	28-Feb-20 A			27-Apr-20	22-May-20	0	80	\$1,276.86	A-TEC
S216315	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 11 - Cor	18	100%	03-Feb-20 A	28-Feb-20 A			24-Apr-20	21-May-20	0	157	\$9,866.76	B_T
S216320	002	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 12	18	100%	03-Feb-20 A	28-Feb-20 A			26-May-20	22-Jun-20	0	80	\$1,276.86	A-TEC
S216325	003	Production Q/A Tested & Sorted devices 8 K Units Delivery Batch No. 12 - Cor	18	100%	03-Feb-20 A	28-Feb-20 A			22-May-20	19-Jun-20	0	157	\$9,866.76	B_T
S216400	002	Production Q/A Tested & Sorted devices 5 K Units Delivery Batch No. 13	18	100%	03-Feb-20 A	28-Feb-20 A			23-Jun-20	21-Jul-20	0	50	\$798.04	A-TEC
S216405	003	Production Q/A Tested & Sorted devices 5 K Units Delivery Batch No. 13 - Cor	18	100%	03-Feb-20 A	28-Feb-20 A			22-Jun-20	20-Jul-20	0	98	\$6,185.13	B_T
S216500	002	EMCal/HCal SiPM Sensor Procurement Complete	0	100%		28-Feb-20 A				21-Jul-20	0	0	\$0.00	
S245000	003	Procure Test stand for SiPMs	101	100%	01-Aug-19 A	30-Dec-19 A			23-Jul-19	30-Sep-19	22000	0	\$24,271.83	A-OPC
POM02.01.05.02 Calorimeter Front End Electronics			1040		01-Apr-18 A	27-May-22 A			01-Apr-18	05-Aug-21	5467928	9732	\$6,890,239.51	
POM02.01.05.02.01 EMCal Electronics: Preproduction			791		01-Apr-18 A	28-May-21 A			01-Apr-18	26-Mar-20	747790	2539	\$1,087,110.99	
OBLG2220	003,004	Fabricate EMCal Preamp Boards: Sectors 1-12 Phase 2 - Obligation	1	100%	01-Nov-19 A	01-Nov-19 A			16-Dec-19	16-Dec-19	89811	0	\$89,810.79	A-TEC
OBLG2220	003,004	Fabricate EMCal Preamp Boards: Sectors 1-12 Phase 1 - Obligation	1	100%	01-Nov-19 A	01-Nov-19 A			16-Dec-19	16-Dec-19	89811	0	\$89,810.79	A-OPC
OBLG2228	003,004	Fabricate EMCal Interface Board: Sectors 1-12, Phase 1 - Obligation	1	100%	01-Nov-19 A	01-Nov-19 A			21-Nov-19	21-Nov-19	33495	0	\$33,494.85	A-OPC
OBLG2228	003,004	Fabricate EMCal Interface Board: Sectors 1-12, Phase 2 - Obligation	1	100%	01-Nov-19 A	01-Nov-19 A			09-Dec-19	09-Dec-19	33495	0	\$33,494.85	A-TEC
OBLG2259	004	Procure EMCal External Bias Power System: Sectors 1-12, Phase 1 - Obligation	1	100%	29-Apr-20 A	30-Apr-20 A			16-Dec-19	16-Dec-19	8663	0	\$8,663.48	A-OPC
OBLG2260	004	Procure EMCal External Bias Power System: Sectors 1-12, Phase 2 - Obligation	1	100%	29-Apr-20 A	30-Apr-20 A			16-Dec-19	16-Dec-19	34654	0	\$34,653.94	A-TEC
S216600		Review and write design specification: EMCal Preproduction Prototype [Sector 0]	20	100%	01-Apr-18 A	30-Apr-18 A			01-Apr-18	30-Apr-18	0	0	\$0.00	
S216601	004	Preliminary Design Review - EMCal FEE sectors 1-12	0	100%		30-Apr-18 A				30-Apr-18	0	0	\$0.00	
S216700		Design EMCal SiPM Daughter Board: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S216800		Layout EMCal SiPM Daughter Board: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S216900		Design EMCal Preamp: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217000		Layout EMCal Preamp: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217100		Design EMCal Interface Board: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217200		Layout EMCal Interface: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217300		Design Calorimeter Controller: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217400		Layout Calorimeter Controller: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217500		Specify Signal and Power Cables for EMCal: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217600		Specify Power System for EMCal: Preproduction [Sector 0]	51	100%	30-Apr-18 A	12-Jul-18 A			30-Apr-18	12-Jul-18	0	0	\$0.00	
S217700	004	Final Design Review, Safety Review - EMCal Preproduction Electronics [Sector 0]	4	100%	13-Jul-18 A	19-Jul-18 A			13-Jul-18	19-Jul-18	0	0	\$0.00	
S217800	004	Completed: Final Design Review, Safety Review - EMCal Preproduction Electronics [Sector 0]	0	100%		19-Jul-18 A				19-Jul-18	0	0	\$0.00	
S217900		Review Safety and Design Review Report: EMCal Preproduction Electronics [Sector 0]	4	100%	20-Jul-18 A	26-Jul-18 A			20-Jul-18	26-Jul-18	0	0	\$0.00	
S218000		Procure Components for EMCal SiPM Boards: Preproduction [Sector 0] Labor	61	100%	27-Jul-18 A	24-Oct-18 A			27-Jul-18	24-Oct-18	0	0	\$0.00	
S218100		Procure Components for EMCal SiPM Boards: Preproduction [Sector 0] M&S	61	100%	27-Jul-18 A	24-Oct-18 A			27-Jul-18	24-Oct-18	0	0	\$0.00	
S218200	003	Fabricate EMCal SiPM Daughter Boards: Preproduction [Sector 0] Labor	33	100%	01-Nov-18 A	21-Dec-18 A			01-Nov-18	21-Dec-18	0	0	\$0.00	B
S218300	003	Fabricate EMCal SiPM Daughter Boards: Preproduction [Sector 0] M&S	33	100%	01-Nov-18 A	21-Dec-18 A			01-Nov-18	21-Dec-18	0	0	\$0.00	A-OPC
S218400		Fabricate EMCal Preamp Boards: Preproduction [Sector 0] Labor FY18	14	100%	10-Sep-18 A	28-Sep-18 A			10-Sep-18	28-Sep-18	0	0	\$0.00	
S218500		Fabricate EMCal Preamp Boards: Preproduction [Sector 0] Labor FY19	6	100%	01-Nov-18 A	09-Nov-18 A			01-Nov-18	09-Nov-18	0	0	\$0.00	B
S218600		Fabricate EMCal Preamp Boards: Preproduction [Sector 0] M&S FY18	14	100%	10-Sep-18 A	28-Sep-18 A			10-Sep-18	28-Sep-18	0	0	\$0.00	
S218700	003	Fabricate EMCal Preamp Boards: Preproduction [Sector 0] M&S FY19	6	100%	01-Nov-18 A	09-Nov-18 A			01-Nov-18	09-Nov-18	0	0	\$0.00	A-OPC
S218800	003	Test EMCal Preamp Boards: Preproduction [Sector 0]	104	100%	13-Nov-18 A	15-Apr-19 A			13-Nov-18	15-Apr-19	0	0	\$0.00	B
S218900		Fabricate EMCal Interface Board: Preproduction [Sector 0] Labor	26	100%	01-Nov-18 A	12-Dec-18 A			01-Nov-18	12-Dec-18	0	0	\$0.00	B
S219000	003	Fabricate EMCal Interface Board: Preproduction [Sector 0] M&S	26	100%	01-Nov-18 A	12-Dec-18 A			01-Nov-18	12-Dec-18	0	0	\$0.00	A-OPC
S219100	003	Test EMCal Interface Boards: Preproduction [Sector 0]	82	100%	13-Dec-18 A	11-Apr-19 A			13-Dec-18	11-Apr-19	0	0	\$0.00	B
S219200		Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Preproduction [Sector 0]	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B
S219210		Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Preproduction [Sector 0]	41	100%	03-Jun-19 A	31-Jul-19 A			03-Jun-19	05-Jul-19	0	24	\$2,743.34	B

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S219300	003	Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Preproduction [Se	133	100%	01-Oct-18 A	16-Apr-19 A			01-Oct-18	16-Apr-19	0	0	\$0.00	A-OPC
S219400		Procure EMCal External Signal and Power Cables, and Power Systems: Prep	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B
S219402		Procure EMCal External Signal and Power Cables, and Power Systems: Prep	41	100%	03-Jun-19 A	31-Jul-19 A			03-Jun-19	05-Jul-19	0	34	\$3,887.40	B
S219500	003	Procure EMCal External Signal and Power Cables, and Power Systems: Prep	133	100%	01-Oct-18 A	16-Apr-19 A			01-Oct-18	16-Apr-19	0	0	\$0.00	A-OPC
S219600		Sector 0 Production Complete	0	100%		07-Aug-19 A				03-Jun-19	0	0	\$0.00	
S219700		Review and Write EMCal Electronics Design Change Specifications: Sector 1	12	100%	15-Aug-19 A	31-Aug-19 A			08-Jul-19	19-Jul-19	0	40	\$5,798.35	B
S219800		EMCal Electronics Review Complete: Preproduction Prototype [Sector 0]	0	100%		25-Sep-19 A				19-Jul-19	0	0	\$0.00	
S219900	003	Update Design per Change Specification - EMCal SiPM Daughter Board: Sec	31	100%	09-Apr-19 A	22-May-19 A			09-Apr-19	22-May-19	0	0	\$0.00	B
S220000		Layout per Change Specification - EMCal SiPM Daughter Board: Sectors 1-12	10	100%	10-Apr-19 A	24-Apr-19 A			10-Apr-19	24-Apr-19	0	0	\$0.00	B
S220100		Update Design per Change Specification - EMCal Preamp: Sectors 1-12	21	100%	01-Jul-19 A	31-Jul-19 A			22-Jul-19	09-Aug-19	0	70	\$8,597.74	B
S220200		Layout per Change Specification - EMCal Preamp: Sectors 1-12	21	100%	01-Jul-19 A	31-Jul-19 A			12-Aug-19	30-Aug-19	0	78	\$9,195.48	B
S220300		Update Design per Change Specification - EMCal Interface Board: Sectors 1-	21	100%	01-Jul-19 A	31-Jul-19 A			22-Jul-19	09-Aug-19	0	70	\$8,597.74	B
S220400		Layout per Change Specification - EMCal Interface: Sectors 1-12	21	100%	01-Jul-19 A	31-Jul-19 A			12-Aug-19	30-Aug-19	0	114	\$13,280.43	B
S220500		Update Design per Change Specification - Calorimeter Controller: Sectors 1-12	21	100%	01-Jul-19 A	31-Jul-19 A			22-Jul-19	09-Aug-19	0	70	\$8,597.74	B
S220600		Layout per Change Specification - Calorimeter Controller: Sectors 1-12	21	100%	01-Jul-19 A	31-Jul-19 A			12-Aug-19	30-Aug-19	0	64	\$7,379.72	B
S220700		Specify Signal and Power Cables per Change Specification - for EMCal: Sect	15	100%	12-Aug-19 A	30-Aug-19 A			22-Jul-19	09-Aug-19	0	120	\$17,395.06	B
S220800		Specify Power System per Change Specification - for EMCal: Sectors 1-12	15	100%	12-Aug-19 A	30-Aug-19 A			22-Jul-19	09-Aug-19	0	120	\$17,395.06	B
S220900	004	Safety and Final Design Review to ensure Change Specifications have been i	10	100%	11-Sep-19 A	24-Sep-19 A			03-Sep-19	16-Sep-19	0	48	\$6,684.74	B
S221000		Safety and Design Review to ensure Change Specifications have been met -c	0	100%		24-Sep-19 A				16-Sep-19	0	0	\$0.00	
S221100	004	Review Safety and Design Review Report and Procurement Readiness Revie	10	100%	11-Sep-19 A	24-Sep-19 A			17-Sep-19	30-Sep-19	0	40	\$5,798.35	B
S221200	004	Complete: Production Readiness Review, Safety Review - EMCal FEE sector:	0	100%		24-Sep-19 A				16-Sep-19	0	0	\$0.00	
S221300	003	Fabricate EMCal SiPM Boards: Sectors 1-12 - M&S	122	100%	25-Nov-19 A	20-May-20 A			01-Oct-19	13-Nov-19	25487	0	\$29,002.31	A-OPC
S221400		Fabricate EMCal SiPM Boards: Sectors 1-12 - Labor	9	100%	15-May-19 A	29-May-19 A			15-May-19	29-May-19	0	0	\$0.00	B
S221500		Test EMCal SiPM Daughter Boards: Sectors 1-12	219	100%	15-Jan-20 A	30-Nov-20 A			23-Oct-19	10-Jan-20	0	175	\$12,309.90	B_T
S221600	003	Fabricate EMCal Preamp Boards: Sectors 1-12 - Provide Requirements to Fat	14	100%	01-Oct-19 A	22-Oct-19 A			01-Oct-19	07-Oct-19	0	144	\$17,474.13	B
S221700		Fabricate EMCal Preamp Boards: Sectors 1-12 - Prepare & Send Solicitation	9	100%	08-Oct-19 A	22-Oct-19 A			08-Oct-19	05-Nov-19	0	0	\$0.00	
S221800		Fabricate EMCal Preamp Boards: Sectors 1-12 - Vendor Responses	8	100%	09-Oct-19 A	22-Oct-19 A			06-Nov-19	27-Nov-19	0	0	\$0.00	
S221900		Fabricate EMCal Preamp Boards: Sectors 1-12 - Vendor Selection	13	100%	02-Oct-19 A	22-Oct-19 A			02-Dec-19	13-Dec-19	0	0	\$0.00	
S222000	003,004	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 1 - Contract Award(s)	0	100%	22-Oct-19 A				16-Dec-19		0	0	\$0.00	A-OPC
S222001	003,004	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 2 - Contract Award(s)	0	100%	22-Oct-19 A				16-Dec-19		0	0	\$0.00	A-TEC
S222100		Fabricate EMCal Preamp Boards: Sectors 1-12 - Contract/PO - Leadtime	40	100%	01-Nov-19 A	02-Jan-20 A			16-Dec-19	05-Feb-20	0	0	\$0.00	
S222200	003,004	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 1 - Delivery Acceptanc	5	100%	03-Jan-20 A	09-Jan-20 A			06-Feb-20	12-Feb-20	78925	0	\$89,810.79	A-OPC
S222201	003,004	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 2 - Delivery Acceptanc	5	100%	03-Jan-20 A	09-Jan-20 A			06-Feb-20	12-Feb-20	78925	0	\$89,810.79	A-TEC
S222300	003	Test EMCal Preamp Boards: Sectors 1-12	182	100%	10-Jan-20 A	29-Sep-20 A			13-Feb-20	20-Feb-20	0	120	\$1,915.29	A-OPC
S222400		Fabricate EMCal Interface Board: Sectors 1-12 - Provide Requirements to Fat	5	100%	01-Oct-19 A	07-Oct-19 A			01-Oct-19	07-Oct-19	0	150	\$18,183.64	B
S222500		Fabricate EMCal Interface Board: Sectors 1-12 - Prepare & Send Solicitation	2	100%	08-Oct-19 A	10-Oct-19 A			08-Oct-19	05-Nov-19	0	0	\$0.00	
S222600		Fabricate EMCal Interface Board: Sectors 1-12 - Vendor Responses	2	100%	10-Oct-19 A	14-Oct-19 A			06-Nov-19	20-Nov-19	0	0	\$0.00	
S222700		Fabricate EMCal Interface Board: Sectors 1-12 - Vendor Selection	1	100%	15-Oct-19 A	16-Oct-19 A			21-Nov-19	06-Dec-19	0	0	\$0.00	
S222800	003,004	Fabricate EMCal Interface Board: Sectors 1-12, Phase 1 - Contract Award(s)	0	100%	01-Nov-19 A				09-Dec-19		0	0	\$0.00	A-OPC
S222801	003,004	Fabricate EMCal Interface Board: Sectors 1-12, Phase 2 - Contract Award(s)	0	100%	01-Nov-19 A				09-Dec-19		0	0	\$0.00	A-TEC
S222900		Fabricate EMCal Interface Board: Sectors 1-12 - Contract/PO - Leadtime	78	100%	01-Nov-19 A	28-Feb-20 A			09-Dec-19	22-Jan-20	0	0	\$0.00	
S223000	003,004	Fabricate EMCal Interface Board: Sectors 1-12, Phase 1 - Delivery Acceptance	7	100%	19-Feb-20 A	28-Feb-20 A			23-Jan-20	29-Jan-20	29435	0	\$33,494.85	A-OPC
S223001	003,004	Fabricate EMCal Interface Board: Sectors 1-12, Phase 2 - Delivery Acceptance	7	100%	19-Feb-20 A	28-Feb-20 A			23-Jan-20	29-Jan-20	29435	0	\$33,494.85	A-TEC
S223100	003	Test EMCal Interface Boards: Sectors 1-12	19	100%	19-Feb-20 A	16-Mar-20 A			30-Jan-20	12-Mar-20	0	181	\$13,475.37	B_T
S223200		Fabricate Calorimeter Controller Boards: Sectors 1-12 Labor	16	100%	08-May-19 A	31-May-19 A			08-May-19	31-May-19	0	0	\$0.00	B

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S223202		Fabricate Calorimeter Controller Boards: Sectors 1-12 Labor Split	32	100%	01-Jul-19 A	15-Aug-19 A			01-Oct-19	30-Oct-19	0	160	\$19,050.64	B
S223300	003	Fabricate Calorimeter Controller Boards: Sectors 1-12 M&S	32	100%	01-Jul-19 A	15-Aug-19 A			01-Oct-19	13-Nov-19	20221	0	\$22,309.12	A-OPC
S223400	003	Test calorimeter controller boards: Sectors 1-12	37	100%	01-Oct-19 A	25-Nov-19 A			14-Nov-19	30-Dec-19	0	209	\$18,074.26	B_T
S223600		Procure EMCAL Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12 - Lat	37	100%	01-Oct-19 A	25-Nov-19 A			01-Oct-19	15-Oct-19	0	78	\$9,186.44	B
S223610	003	Procure EMCAL Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12 - Coi	0	100%	01-Oct-19 A				01-Oct-19		0	0	\$0.00	A-TEC
S223700	003,004	Procure EMCAL Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12, Pha	144	100%	01-Oct-19 A	30-Apr-20 A			01-Oct-19	07-Oct-19	42072	0	\$47,874.81	A-OPC
S223701	003,004	Procure EMCAL Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12, Pha	144	100%	01-Oct-19 A	30-Apr-20 A			01-Oct-19	07-Oct-19	42072	0	\$47,874.81	A-TEC
S223800		Procure EMCAL External LV/Bias Cables: Sectors 1-12 - Labor	122	100%	01-Nov-19 A	30-Apr-20 A			01-Oct-19	15-Oct-19	0	78	\$9,186.44	B
S223900	003,004	Procure EMCAL External LV/Bias Signal/Comm/Test Cables: Sectors 1-12, Ph:	5	100%	01-Apr-20 A	07-Apr-20 A			01-Oct-19	07-Oct-19	10720	0	\$11,959.38	A-OPC
S224000	003,004	Procure EMCAL External LV/Bias Signal/Comm/Test Cables: Sectors 1-12, Ph:	5	100%	01-Apr-20 A	07-Apr-20 A			01-Oct-19	07-Oct-19	42880	0	\$47,837.51	A-TEC
S224100		Assemble EMCAL External Power Cables: Sectors 1-12	8	100%	15-Feb-21 A	26-Feb-21 A			01-Oct-19	15-Oct-19	0	78	\$9,462.03	B
S224200		Procure EMCAL Low Voltage Power Systems: Sectors 1-12 - Labor	414	100%	01-Oct-19 A	28-May-21 A			01-Oct-19	15-Oct-19	0	78	\$9,186.44	B
S224300	003,004	Procure EMCAL Low Voltage Power Systems: Sectors 1-12, Phase 1 - M&S	414	100%	01-Oct-19 A	28-May-21 A			01-Oct-19	07-Oct-19	3080	0	\$3,504.81	A-OPC
S224400	003,004	Procure EMCAL Low Voltage Power Systems: Sectors 1-12, Phase 2 - M&S	414	100%	01-Oct-19 A	28-May-21 A			01-Oct-19	07-Oct-19	12320	0	\$14,019.25	A-TEC
S224500	003	Test Pulse Boards 1-12 - Labor	41	100%	01-Apr-20 A	28-May-20 A			01-Oct-19	15-Oct-19	0	78	\$9,186.44	B
S225300	003	Test Pulse Boards 1-12 - M&S	10	100%	03-Aug-20 A	14-Aug-20 A			01-Oct-19	15-Oct-19	4222	0	\$4,804.32	A-OPC
S225500		Procure EMCAL External Bias Power System: Sectors 1-12 - Provide Requiren	10	100%	02-Jan-20 A	15-Jan-20 A			01-Oct-19	15-Oct-19	0	78	\$9,186.44	B
S225600		Procure EMCAL External Bias Power System: Sectors 1-12 - Prepare & Send €	8	100%	16-Jan-20 A	29-Jan-20 A			16-Oct-19	13-Nov-19	0	0	\$0.00	
S225700		Procure EMCAL External Bias Power System: Sectors 1-12 - Vendor Respons€	7	100%	19-Feb-20 A	28-Feb-20 A			14-Nov-19	27-Nov-19	0	0	\$0.00	
S225800		Procure EMCAL External Bias Power System: Sectors 1-12 - Vendor Selection	7	100%	19-Feb-20 A	28-Feb-20 A			02-Dec-19	13-Dec-19	0	0	\$0.00	
S225900	004	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 1 - Contrac	0	100%	01-Apr-20 A				16-Dec-19		0	0	\$0.00	A-OPC
S226000	003,004	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 2 - Contrac	0	100%	01-Apr-20 A				16-Dec-19		0	0	\$0.00	A-TEC
S226100	004	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 1 - Contrac	223	100%	01-Apr-20 A	23-Feb-21 A			16-Dec-19	12-Feb-20	0	0	\$0.00	A-OPC
S226200	004	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 2 - Contrac	224	100%	01-Apr-20 A	24-Feb-21 A			16-Dec-19	12-Feb-20	0	0	\$0.00	A-TEC
S226300	004	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 1 - Delivery	47	100%	15-Dec-20 A	24-Feb-21 A			13-Feb-20	20-Feb-20	7613	0	\$8,836.75	A-OPC
S226400	004	Procure EMCAL External Bias Power System: Sectors 1-12, Phase 2 - Delivery	47	100%	15-Dec-20 A	24-Feb-21 A			13-Feb-20	20-Feb-20	30454	0	\$35,347.02	A-TEC
S226500		Review and Write EMCAL Electronics Design Change Specifications: Final Pr	127	100%	25-Nov-19 A	28-May-20 A			13-Mar-20	26-Mar-20	0	40	\$5,972.30	B
S226600		EMCAL Electronics Preproduction Complete	0	100%		28-May-20 A				26-Mar-20	0	0	\$0.00	
POM02.01.05.02.02 EMCAL Electronics: Production			555		11-Mar-20 A	27-May-22 A			27-Mar-20	30-Jul-21	3785500	3383	\$4,430,997.50	
OBLG2274		Fabricate SiPM Daughter Boards Sectors 13-64 - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			21-Jul-20	21-Jul-20	75665	0	\$75,665.02	A-TEC
OBLG2291		Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Obligation	6	100%	09-Oct-20 A	20-Oct-20 A			21-Jul-20	21-Jul-20	549642	0	\$549,642.14	A-TEC
OBLG2299		Fabricate EMCAL Interface Board Sectors 13-64 - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			21-Jul-20	21-Jul-20	217849	0	\$217,848.87	A-TEC
OBLG2308		Fabricate Calorimeter Production Controller Boards - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			08-Jun-20	08-Jun-20	90348	0	\$90,347.89	A-TEC
OBLG2316		Procure Internal EMCAL Signal/Test/Comm and LV/Bias: Production - Obligatic	1	100%	01-Sep-20 A	01-Sep-20 A			08-Jun-20	08-Jun-20	288193	0	\$288,193.32	A-TEC
OBLG2330		Procure EMCAL External LV/Bias Cables Sectors 13-64 - Obligation	1	100%	30-Jul-21 A	30-Jul-21 A			01-Oct-20	01-Oct-20	205854	0	\$205,854.36	A-TEC
OBLG2338		Procure EMCAL Bias Power System Sectors 13-64 - Obligation	1	100%	01-Oct-20 A	01-Oct-20 A			01-Oct-20	01-Oct-20	155680	0	\$155,680.29	A-TEC
S226700	004	Production Readiness and Safety Review: EMCAL Production Electronics	17	100%	31-Mar-20 A	22-Apr-20 A			27-Mar-20	02-Apr-20	0	56	\$8,079.74	B
S226800		Production Readiness & Safety Review: EMCAL Electronics	0	100%		22-Apr-20 A				02-Apr-20	0	0	\$0.00	
S226900		Respond to Results of EMCAL Production Readiness and Safety Review	7	100%	29-May-20 A	08-Jun-20 A			03-Apr-20	16-Apr-20	0	32	\$4,777.84	B
S226901	004	Completed: Production Readiness Review, Safety Review - EMCAL FEE secto	0	100%		03-Aug-20 A				16-Apr-20	0	0	\$0.00	
S227000		Fabricate SiPM Daughter Boards Sectors 13-64 - Provide Requirements to Pr	9	100%	18-Mar-20 A	31-Mar-20 A			17-Apr-20	23-Apr-20	0	120	\$15,581.76	B
S227100		Fabricate SiPM Daughter Boards Sectors 13-64 - Prepare & Send Solicitation	8	100%	19-Mar-20 A	31-Mar-20 A			24-Apr-20	05-Jun-20	0	0	\$0.00	
S227200		Fabricate SiPM Daughter Boards Sectors 13-64 - Vendor Responses	8	100%	18-Mar-20 A	30-Mar-20 A			08-Jun-20	19-Jun-20	0	0	\$0.00	
S227300		Fabricate SiPM Daughter Boards Sectors 13-64 - Vendor Selection	4	100%	25-Mar-20 A	31-Mar-20 A			22-Jun-20	20-Jul-20	0	0	\$0.00	
S227400		Fabricate SiPM Daughter Boards Sectors 13-64 - Contract Award(s)	0	100%	19-May-20 A				21-Jul-20		0	0	\$0.00	A-TEC

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S227500		Fabricate SiPM Daughter Boards Sectors 13-64 - Contract/PO - Leadtime	11	100%	13-May-20 A	29-May-20 A			21-Jul-20	12-Mar-21	0	0	\$0.00	
S227510	003	20% EMCAL SiPM Daughter Boards Delivered: Production Sectors 13-64	6	100%	20-May-20 A	29-May-20 A			21-Jul-20	02-Sep-20	0	0	\$0.00	
S227520	003	40% EMCAL SiPM Daughter Boards Delivered: Production Sectors 13-64	6	100%	20-May-20 A	29-May-20 A			03-Sep-20	20-Oct-20	0	0	\$0.00	
S227530	003	60% EMCAL SiPM Daughter Boards Delivered: Production Sectors 13-64	15	100%	09-Jun-20 A	30-Jun-20 A			21-Oct-20	08-Dec-20	0	0	\$0.00	
S227540	003	80% EMCAL SiPM Daughter Boards Delivered: Production Sectors 13-64	21	100%	01-Apr-21 A	30-Apr-21 A			09-Dec-20	26-Jan-21	0	0	\$0.00	
S227550	003	100% EMCAL SiPM Daughter Boards Delivered: Production Sectors 13-64	21	100%	01-Apr-21 A	30-Apr-21 A			27-Jan-21	27-Jan-21	0	0	\$0.00	
S227600	014	Fabricate SiPM Daughter Boards Sectors 13-64 - Delivery Acceptance	11	100%	13-May-20 A	29-May-20 A			22-Jun-20	23-Jun-20	34668	0	\$38,676.09	A-TEC
S227605	014	Fabricate SiPM Daughter Boards Sectors 13-64 - Delivery Acceptance	105	100%	01-Dec-20 A	30-Apr-21 A			02-Nov-20	03-Nov-20	20801	0	\$23,205.88	A-TEC
S228100	003	Test SiPM Daughter Boards Production Sectors 13-64	246	100%	01-Dec-20 A	23-Nov-21 A			16-Sep-20	07-May-21	0	176	\$2,893.36	A-TEC
S228110	003	Test SiPM Daughter Boards Production Sectors 13-64 - Contributed Labor	246	100%	01-Dec-20 A	23-Nov-21 A			16-Sep-20	07-May-21	0	833	\$65,413.02	B_T
S228190	003	5% EMCAL SiPM Daughter Boards Tested: Production Sectors 13-64	0	100%		12-Jun-20 A				10-Sep-20	0	0	\$0.00	
S228200	003	20% EMCAL SiPM Daughter Boards Tested: Production Sectors 13-64	0	100%		01-Apr-21 A				01-Oct-20	0	0	\$0.00	
S228300	003	40% EMCAL SiPM Daughter Boards Tested: Production Sectors 13-64	0	100%		01-Apr-21 A				18-Nov-20	0	0	\$0.00	
S228400	003	60% EMCAL SiPM Daughter Boards Tested: Production Sectors 13-64	0	100%		31-May-21 A				07-Jan-21	0	0	\$0.00	
S228450	003	80% EMCAL SiPM Daughter Boards Tested: Production Sectors 13-64	0	100%		02-Aug-21 A				26-Jan-21	0	0	\$0.00	
S228500	003	100% EMCAL SiPM Daughter Boards Tested: Production Sectors 13-64	0	100%		23-Nov-21 A				27-Jan-21	0	0	\$0.00	
S228600		EMCAL SiPM Boards Production Complete	0	100%		30-Apr-21 A				27-Jan-21	0	0	\$0.00	
S228700		Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Provide Requiri	5	100%	03-Aug-20 A	07-Aug-20 A			17-Apr-20	23-Apr-20	0	96	\$12,197.10	B
S228800		Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Prepare & Senc	8	100%	01-Sep-20 A	14-Sep-20 A			24-Apr-20	05-Jun-20	0	0	\$0.00	
S228900		Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Vendor Respon	4	100%	14-Oct-20 A	20-Oct-20 A			08-Jun-20	19-Jun-20	0	0	\$0.00	
S229000		Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Vendor Selectic	4	100%	14-Oct-20 A	20-Oct-20 A			22-Jun-20	20-Jul-20	0	0	\$0.00	
S229100		Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Contract Awardi	0	100%	14-Oct-20 A				21-Jul-20		0	0	\$0.00	A-TEC
S229200		Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Contract/PO - L	63	100%	23-Nov-20 A	26-Feb-21 A			21-Jul-20	14-Oct-20	0	0	\$0.00	
S229300	003	Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Delivery Accepl	65	100%	26-Feb-21 A	28-May-21 A			07-Dec-20	11-Dec-20	473550	0	\$549,642.06	A-TEC
S229400	015	Test EMCAL Preamp Boards: Production Sectors 13-64	187	100%	26-Feb-21 A	23-Nov-21 A			14-Dec-20	08-Apr-21	0	384	\$6,312.80	A-TEC
S229405	003	Test EMCAL Preamp Boards: Production Sectors 13-64 - Contributed Labor	166	100%	29-Mar-21 A	23-Nov-21 A			14-Dec-20	08-Apr-21	0	249	\$31,221.04	B
S229500		Fabricate EMCAL Interface Board Sectors 13-64 - Provide Requirements to F2	3	100%	02-Jun-20 A	05-Jun-20 A			17-Apr-20	23-Apr-20	0	96	\$12,197.10	B
S229600		Fabricate EMCAL Interface Board Sectors 13-64 - Prepare & Send Solicitation	1	100%	08-Jun-20 A	09-Jun-20 A			24-Apr-20	05-Jun-20	0	0	\$0.00	
S229700		Fabricate EMCAL Interface Board Sectors 13-64 - Vendor Responses	2	100%	09-Jun-20 A	11-Jun-20 A			08-Jun-20	19-Jun-20	0	0	\$0.00	
S229800		Fabricate EMCAL Interface Board Sectors 13-64 - Vendor Selection	1	100%	11-Jun-20 A	12-Jun-20 A			22-Jun-20	20-Jul-20	0	0	\$0.00	
S229900		Fabricate EMCAL Interface Board Sectors 13-64 - Contract Award(s)	0	100%	15-Jun-20 A				21-Jul-20		0	0	\$0.00	A-TEC
S230000		Fabricate EMCAL Interface Board Sectors 13-64 - Contract/PO - Leadtime	96	100%	16-Jun-20 A	02-Nov-20 A			21-Jul-20	12-Nov-20	0	0	\$0.00	
S230100		Fabricate EMCAL Interface Board Sectors 13-64 - Delivery Acceptance	44	100%	26-Oct-20 A	31-Dec-20 A			13-Nov-20	19-Nov-20	187690	0	\$217,848.84	A-TEC
S230200	003	Test EMCAL Interface Boards: Production Sectors 13-64	20	100%	01-Dec-20 A	30-Dec-20 A			20-Nov-20	19-Mar-21	0	384	\$6,312.80	A-TEC
S230205	003	Test EMCAL Interface Boards: Production Sectors 13-64 - Contributed Labor	20	100%	01-Dec-20 A	30-Dec-20 A			20-Nov-20	19-Mar-21	0	249	\$31,221.04	B
S230400	003	Fabricate Calorimeter Production Controller Boards - Provide Requirements to	5	100%	03-Aug-20 A	07-Aug-20 A			17-Apr-20	23-Apr-20	0	0	\$0.00	
S230500		Fabricate Calorimeter Production Controller Boards M&S - Prepare & Send St	10	100%	10-Aug-20 A	21-Aug-20 A			24-Apr-20	07-May-20	0	0	\$0.00	
S230600		Fabricate Calorimeter Production Controller Boards - Vendor Responses	12	100%	10-Aug-20 A	26-Aug-20 A			08-May-20	21-May-20	0	0	\$0.00	
S230700		Fabricate Calorimeter Production Controller Boards - Vendor Selection	12	100%	10-Aug-20 A	26-Aug-20 A			22-May-20	05-Jun-20	0	0	\$0.00	
S230800		Fabricate Calorimeter Production Controller Boards - Contract Award(s)	0	100%	10-Aug-20 A				08-Jun-20		0	0	\$0.00	A-TEC
S230900		Fabricate Calorimeter Production Controller Boards - Contract/PO - Leadtime	12	100%	10-Aug-20 A	26-Aug-20 A			09-Jun-20	04-Aug-20	0	0	\$0.00	
S231000	015	Fabricate Calorimeter Production Controller Boards - Delivery Acceptance	12	100%	10-Aug-20 A	26-Aug-20 A			11-Jan-21	15-Jan-21	79397	0	\$92,154.85	A-TEC
S231100	003	Test Calorimeter Controller Boards: Production Sectors 13-64	12	100%	10-Aug-20 A	26-Aug-20 A			19-Jan-21	16-Mar-21	0	120	\$1,972.75	A-TEC
S231105	003	Test Calorimeter Controller Boards: Production Sectors 13-64 - Contributed La	12	100%	10-Aug-20 A	26-Aug-20 A			19-Jan-21	16-Mar-21	0	188	\$23,272.44	B
S231200		Procure Internal EMCAL Signal/Test/Comm and LV/Bias Cables: Production - F	10	100%	11-Mar-20 A	25-Mar-20 A			17-Apr-20	23-Apr-20	0	80	\$9,526.17	B

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S231300		Procure Internal EMCal Signal/Test/Comm and LV/Bias: Production - Prepare	3	100%	25-Mar-20 A	30-Mar-20 A			24-Apr-20	07-May-20	0	0	\$0.00	
S231400		Procure Internal EMCal Signal/Test/Comm and LV/Bias: Production - Vendor	5	100%	24-Mar-20 A	31-Mar-20 A			08-May-20	21-May-20	0	0	\$0.00	
S231500		Procure Internal EMCal Signal/Test/Comm and LV/Bias: Production - Vendor	6	100%	23-Mar-20 A	31-Mar-20 A			22-May-20	05-Jun-20	0	0	\$0.00	
S231600		Procure Internal EMCal Signal/Test/Comm and LV/Bias: Production - Contract	0	100%	28-May-20 A				08-Jun-20		0	0	\$0.00	A-TEC
S231700		Procure Internal EMCal Signal/Test/Comm and LV/Bias: Production - Contract	183	100%	29-May-20 A	24-Feb-21 A			08-Jun-20	28-Oct-20	0	0	\$0.00	
S231800	003	Procure Internal EMCal Signal/Test/Comm and LV/Bias: Production - Delivery	103	100%	31-Dec-20 A	28-May-21 A			29-Oct-20	04-Nov-20	248296	0	\$288,193.27	A-TEC
S231900	003	Fabricate Test-pulse Boards 13 - 64 - Labor	11	100%	12-May-20 A	28-May-20 A			17-Apr-20	23-Apr-20	0	80	\$11,381.64	B
S232500	003	Fabricate Test-pulse Boards 13 - 64 - M&S	9	100%	17-May-21 A	28-May-21 A			17-Apr-20	23-Apr-20	7050	0	\$8,182.82	A-TEC
S232600	003	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - P	90	100%	22-Feb-21 A	29-Jun-21 A			17-Apr-20	23-Apr-20	0	80	\$11,723.09	B
S232700	003	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - P	46	100%	23-Apr-21 A	29-Jun-21 A			24-Apr-20	05-Jun-20	0	0	\$0.00	
S232800	003	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - V	53	100%	14-Apr-21 A	29-Jun-21 A			08-Jun-20	19-Jun-20	0	0	\$0.00	
S232900	003	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - V	27	100%	22-Jun-21 A	30-Jul-21 A			22-Jun-20	20-Jul-20	0	0	\$0.00	
S233000	003	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - C	0	100%	31-Aug-21 A				01-Oct-20		0	0	\$0.00	A-TEC
S233100	003	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - C	165	100%	30-Jul-21 A	31-Mar-22 A			01-Oct-20	01-Mar-21	0	0	\$0.00	
S233200	003	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64 - D	214	100%	20-Jul-21 A	27-May-22 A			02-Mar-21	08-Mar-21	177356	0	\$209,971.41	A-TEC
S233250	017	Trunk Signal Cables - EMCal	143	100%	31-Aug-21 A	31-Mar-22 A			01-Dec-20	30-Jul-21	670160	0	\$790,134.13	A-TEC
S233300		Assemble Power Cables	14	100%	08-Dec-20 A	29-Dec-20 A			09-Mar-21	15-Mar-21	0	80	\$11,723.09	B
S233400		Procure EMCal Bias Power System Sectors 13-64 - Provide Requirements to	9	100%	07-Apr-20 A	20-Apr-20 A			17-Apr-20	23-Apr-20	0	80	\$11,381.64	B
S233500		Procure EMCal Bias Power System Sectors 13-64 - Prepare & Send Solicitati	9	100%	07-Apr-20 A	20-Apr-20 A			24-Apr-20	05-Jun-20	0	0	\$0.00	
S233600		Procure EMCal Bias Power System Sectors 13-64 - Vendor Responses	9	100%	07-Apr-20 A	20-Apr-20 A			08-Jun-20	19-Jun-20	0	0	\$0.00	
S233700		Procure EMCal Bias Power System Sectors 13-64 - Vendor Selection	9	100%	07-Apr-20 A	20-Apr-20 A			22-Jun-20	20-Jul-20	0	0	\$0.00	
S233800		Procure EMCal Bias Power System Sectors 13-64 - Contract Award(s)	0	100%	07-Apr-20 A				01-Oct-20		0	0	\$0.00	A-TEC
S233900		Procure EMCal Bias Power System Sectors 13-64 - Contract/PO - Leadtime	233	100%	07-Apr-20 A	15-Mar-21 A			01-Oct-20	26-Apr-21	0	0	\$0.00	
S234000	003	Procure EMCal Bias Power System Sectors 13-64 - Delivery Acceptance	15	100%	22-Feb-21 A	15-Mar-21 A			27-Apr-21	03-May-21	134128	0	\$155,680.27	A-TEC
S234100	003	EMCal Low Voltage Power System Sectors 13-64 - M&S	206	100%	31-Aug-20 A	29-Jun-21 A			17-Apr-20	04-Nov-20	35200	0	\$39,269.60	A-TEC
S234200	003	EMCal Crates for Controllers - M&S	147	100%	26-Oct-20 A	28-May-21 A			17-Apr-20	04-Nov-20	5332	0	\$5,948.45	A-TEC
S234300		EMCal Electronics Complete	0	100%		27-May-22 A				30-Jul-21	0	0	\$0.00	
S244450	017	Trunk Signal Cables - OuterHCal	79	100%	31-Aug-21 A	28-Dec-21 A			01-Dec-20	30-Jul-21	128640	0	\$151,669.53	A-TEC
POM02.01.05.02.03 HCal Electronics: Preproduction			446		15-Apr-18 A	29-Jan-20 A			15-Apr-18	26-Feb-20	66565	571	\$128,154.92	
S234400		Review and Write Design Hcal Frontend Electronics Specifications: (6 Module	24	100%	15-Apr-18 A	18-May-18 A			15-Apr-18	18-May-18	0	0	\$0.00	
S234401	004	Preliminary Design Review - HCal FEE Sectors 1-6	0	100%		18-May-18 A				18-May-18	0	0	\$0.00	
S234600		Design HCal SiPM Board: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S234700		Layout HCal SiPM Board: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S234800		Design HCal Preamp: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S234900		Layout HCal Preamp: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235000		Design HCal LED Driver Board: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235100		Layout HCal LED Driver Board: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235200		Design HCal Interface Board: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235300		Layout HCal Interface Board: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235400		Design HCal Backplane: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235500		Layout HCal Backplane: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235600		Specify HCal Signal and Power Cables: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235700		Design HCal power system: (6 Modules)	72	100%	21-May-18 A	31-Aug-18 A			21-May-18	31-Aug-18	0	0	\$0.00	
S235800	003,004	Final Design Review, Production Readiness Review, Safety Review - HCal FE	0	100%	17-Oct-18 A	17-Oct-18 A			17-Oct-18	17-Oct-18	0	0	\$0.00	B
S235900		HCal Electronics Safety & Design Review Complete	0	100%		17-Oct-18 A				17-Oct-18	0	0	\$0.00	

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S236000		Review Hcal Electronics Safety & Design Review Report	3	100%	17-Oct-18 A	22-Oct-18 A			17-Oct-18	22-Oct-18	0	0	\$0.00	B
S236100		Fabricate HCal SiPM Boards: (6 Modules) Labor	38	100%	08-Apr-19 A	31-May-19 A			08-Apr-19	31-May-19	0	0	\$0.00	B
S236102		Fabricate HCal SiPM Boards: (6 Modules) Labor Split	5	100%	02-Jul-19 A	10-Jul-19 A			01-Jul-19	17-Jul-19	0	52	\$6,050.14	B
S236200	003	Fabricate HCal SiPM Boards: (6 Modules) M&S	4	100%	11-Jul-19 A	17-Jul-19 A			01-Jul-19	24-Sep-19	28710	0	\$31,674.74	A-OPC
S236300		Test HCal SiPM Boards: (6 Modules)	9	100%	18-Jul-19 A	31-Jul-19 A			25-Sep-19	29-Oct-19	0	40	\$4,720.57	B
S236400		Fabricate HCal Preamp Boards: (6 Modules) Labor	121	100%	01-Nov-18 A	30-Apr-19 A			01-Nov-18	30-Apr-19	0	0	\$0.00	B
S236500	003	Fabricate HCal Preamp Boards: (6 Modules) M&S	121	100%	01-Nov-18 A	30-Apr-19 A			01-Nov-18	30-Apr-19	0	0	\$0.00	A-OPC
S236600		Test HCal Preamp Boards: (6 Modules)	4	100%	24-May-19 A	31-May-19 A			24-May-19	31-May-19	0	0	\$0.00	B_T
S236700		Fabricate HCal LED Boards: (6 Modules) Labor	38	100%	02-Jan-19 A	27-Feb-19 A			02-Jan-19	27-Feb-19	0	0	\$0.00	B
S236800	003	Fabricate HCal LED Boards: (6 Modules) M&S	19	100%	03-Jun-19 A	28-Jun-19 A			03-Jun-19	30-Jul-19	13070	0	\$14,419.67	A-OPC
S236900		Test HCal LED Boards: (6 Modules)	31	100%	15-Aug-19 A	30-Sep-19 A			31-Jul-19	25-Sep-19	0	168	\$12,290.67	B_T
S237000		Fabricate HCal Interface Boards: (6 Modules) Labor	38	100%	02-Jan-19 A	27-Feb-19 A			02-Jan-19	27-Feb-19	0	0	\$0.00	B
S237100	003	Fabricate HCal Interface Boards: (6 Modules) M&S	82	100%	02-Jan-19 A	29-Apr-19 A			02-Jan-19	29-Apr-19	0	0	\$0.00	A-OPC
S237200		Test HCal Interface Boards: (6 Modules)	22	100%	30-Apr-19 A	31-May-19 A			30-Apr-19	31-May-19	0	0	\$0.00	B_T
S237300		Fabricate HCal Backplane: (6 Modules) Labor	38	100%	02-Jan-19 A	27-Feb-19 A			02-Jan-19	27-Feb-19	0	0	\$0.00	B
S237400	003	Fabricate HCal Backplane: (6 Modules) M&S	36	100%	02-Jan-19 A	25-Feb-19 A			02-Jan-19	25-Feb-19	0	0	\$0.00	A-OPC
S237500		Test HCal Backplane: (6 Modules)	15	100%	01-Feb-19 A	25-Feb-19 A			01-Feb-19	25-Feb-19	0	0	\$0.00	B_T
S237600		Procure Hcal Power and Signal Cables and Power System: (6 Modules) - Lab	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	B
S237602		Procure Hcal Power and Signal Cables and Power System: (6 Modules) - Lab	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	31-Jul-19	0	116	\$13,321.63	B
S237700	003,004	Procure Hcal Power and Signal Cables and Power System: (6 Modules), Phas	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	A-OPC
S237710	003,004	Procure Hcal Power and Signal Cables and Power System: (6 Modules), Phas	64	100%	03-Jun-19 A	30-Aug-19 A			03-Jun-19	24-Sep-19	4957	0	\$5,468.88	A-OPC
S237800	003,004	Procure Hcal Power and Signal Cables and Power System: (6 Modules), Phas	64	100%	03-Jun-19 A	30-Aug-19 A			03-Jun-19	24-Sep-19	19828	0	\$21,875.54	A-TEC
S237900	004	Assemble HCal Power and Signal Cables and Power System: (6 Modules)	79	100%	01-Oct-19 A	29-Jan-20 A			25-Sep-19	26-Feb-20	0	195	\$18,333.08	B_T
S238000		HCal Preproduction Electronics Complete	0	100%		22-Jan-20 A				26-Feb-20	0	0	\$0.00	
S238100		HCal Preproduction FEE Complete	0	100%		22-Jan-20 A				26-Feb-20	0	0	\$0.00	
POM02.01.05.02.04 HCal Electronics: Production			559		03-Feb-20 A	27-Apr-22 A			27-Feb-20	05-Aug-21	831240	3239	\$1,207,142.81	
OBLG2389		Fabricate HCal SiPM Boards - Obligation	0	100%	29-Apr-20 A	29-Apr-20 A			13-Jul-20	13-Jul-20	108649	0	\$108,649.16	A-TEC
OBLG2402		Fabricate HCal Preamp Boards - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			06-Jul-20	06-Jul-20	48011	0	\$48,010.55	A-TEC
OBLG2415		Fabricate HCal LED Boards - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			13-Jul-20	13-Jul-20	50145	0	\$50,144.98	A-TEC
OBLG2427		Fabricate HCal Interface Boards Production - Obligation	1	100%	01-Sep-20 A	01-Sep-20 A			07-May-20	07-May-20	33330	0	\$33,329.85	A-TEC
OBLG2435		Procure HCal Electronics Production Power & Signal Cables (Internal) - Oblig	1	100%	01-Sep-20 A	01-Sep-20 A			13-Jul-20	13-Jul-20	94395	0	\$94,394.99	A-TEC
OBLG2442		HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	73	100%	15-Oct-20 A	02-Feb-21 A			13-Jul-20	13-Jul-20	101939	0	\$101,939.44	A-TEC
S238200	004	Production Readiness Review, Safety Review - HCal FEE Sectors 7-32	2	100%	03-Feb-20 A	05-Feb-20 A			27-Feb-20	11-Mar-20	0	48	\$6,603.80	B
S238300		Hcal Frontend Electronics Production Review	0	100%		05-Feb-20 A				11-Mar-20	0	0	\$0.00	
S238400		Review Hcal Production Readiness & Safety Review Report	2	100%	03-Feb-20 A	05-Feb-20 A			12-Mar-20	08-Apr-20	0	20	\$2,986.15	B
S238500		Fabricate HCal SiPM Boards - Provide Requirements to Procurement	5	100%	02-Mar-20 A	06-Mar-20 A			09-Apr-20	15-Apr-20	0	132	\$15,609.17	B
S238600		Fabricate HCal SiPM Boards - Prepare & Send Solicitation	5	100%	09-Mar-20 A	13-Mar-20 A			16-Apr-20	28-May-20	0	0	\$0.00	
S238700		Fabricate HCal SiPM Boards - Vendor Responses	5	100%	16-Mar-20 A	20-Mar-20 A			29-May-20	11-Jun-20	0	0	\$0.00	
S238800		Fabricate HCal SiPM Boards - Vendor Selection	5	100%	23-Mar-20 A	27-Mar-20 A			12-Jun-20	10-Jul-20	0	0	\$0.00	
S238900		Fabricate HCal SiPM Boards - Contract Award(s)	0	100%	30-Mar-20 A				13-Jul-20		0	0	\$0.00	A-TEC
S239000		Fabricate HCal SiPM Boards - Contract/PO - Leadtime	129	100%	30-Mar-20 A	30-Sep-20 A			13-Jul-20	04-Sep-20	0	0	\$0.00	
S239100	015	Fabricate HCal SiPM Boards - Delivery Acceptance	12	100%	14-Sep-20 A	30-Sep-20 A			11-Jan-21	15-Jan-21	95480	0	\$110,822.14	A-TEC
S239200		HCal SiPM Boards Assembly Complete	0	100%		22-Sep-20 A				15-Jan-21	0	0	\$0.00	
S239300		Test HCal SiPM Boards: Production	5	100%	15-Sep-20 A	22-Sep-20 A			19-Jan-21	11-May-21	0	193	\$24,536.40	B
S239400		25% Hcal SiPM Board testing complete: Production	0	100%		22-Sep-20 A				09-Jun-21	0	0	\$0.00	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S239500		50% Hcal SiPM Board testing complete: Production	0	100%		22-Sep-20 A				08-Jul-21	0	0	\$0.00	
S239600		75% Hcal SiPM Board testing complete: Production	0	100%		22-Sep-20 A				05-Aug-21	0	0	\$0.00	
S239700		Hcal SiPM Board testing Complete: Production	0	100%		22-Sep-20 A				05-Aug-21	0	0	\$0.00	
S239800		Fabricate HCal Preamp Boards - Provide Requirements to Procurement	10	100%	02-Mar-20 A	13-Mar-20 A			09-Apr-20	22-Apr-20	0	224	\$26,653.45	B
S239900		Fabricate HCal Preamp Boards - Prepare & Send Solicitation	30	100%	02-Mar-20 A	10-Apr-20 A			09-Apr-20	20-May-20	0	0	\$0.00	
S240000		Fabricate HCal Preamp Boards - Vendor Responses	10	100%	01-Apr-20 A	14-Apr-20 A			21-May-20	04-Jun-20	0	0	\$0.00	
S240100		Fabricate HCal Preamp Boards - Vendor Selection	11	100%	15-Apr-20 A	30-Apr-20 A			05-Jun-20	02-Jul-20	0	0	\$0.00	
S240200		Fabricate HCal Preamp Boards - Contract Award(s)	0	100%	01-May-20 A				06-Jul-20		0	0	\$0.00	A-TEC
S240300		Fabricate HCal Preamp Boards - Contract/PO - Leadtime	85	100%	01-May-20 A	31-Aug-20 A			06-Jul-20	27-Oct-20	0	0	\$0.00	
S240400	003	Fabricate HCal Preamp Boards - Delivery Acceptance	15	100%	11-Aug-20 A	31-Aug-20 A			28-Oct-20	03-Nov-20	41364	0	\$47,069.16	A-TEC
S240500		50% HCal Preamp Board Assembly complete: Production	0	100%		31-Aug-20 A				03-Nov-20	0	0	\$0.00	
S240600		Hcal Preamp Board Assembly Complete: Production	0	100%		31-Aug-20 A				03-Nov-20	0	0	\$0.00	
S240700		Test HCal Preamp Boards: Production	123	100%	28-Sep-20 A	30-Mar-21 A			04-Nov-20	04-Mar-21	0	553	\$37,473.49	B_T
S240800		25% HCal Preamp Boards testing complete: Production	0	100%		29-Jan-21 A				04-Dec-20	0	0	\$0.00	
S240900		50% HCal Preamp Boards testing complete: Production	0	100%		25-Feb-21 A				05-Jan-21	0	0	\$0.00	
S241000		75% HCal Preamp Boards testing complete: Production	0	100%		31-Mar-21 A				03-Feb-21	0	0	\$0.00	
S241100		Fabricate HCal LED Boards - Provide Requirements to Procurement	5	100%	01-Apr-20 A	07-Apr-20 A			09-Apr-20	15-Apr-20	0	72	\$8,761.84	B
S241200		Fabricate HCal LED Boards - Prepare & Send Solicitation	14	100%	08-Apr-20 A	28-Apr-20 A			16-Apr-20	28-May-20	0	0	\$0.00	
S241300		Fabricate HCal LED Boards - Vendor Responses	14	100%	08-Apr-20 A	28-Apr-20 A			29-May-20	11-Jun-20	0	0	\$0.00	
S241400		Fabricate HCal LED Boards - Vendor Selection	14	100%	08-Apr-20 A	28-Apr-20 A			12-Jun-20	10-Jul-20	0	0	\$0.00	
S241500		Fabricate HCal LED Boards - Contract Award(s)	0	100%	08-Apr-20 A				13-Jul-20		0	0	\$0.00	A-TEC
S241600		Fabricate HCal LED Boards - Contract/PO - Leadtime	23	100%	08-Apr-20 A	08-May-20 A			13-Jul-20	04-Sep-20	0	0	\$0.00	
S241700	003	Fabricate HCal LED Boards - Delivery Acceptance	5	100%	11-May-20 A	15-May-20 A			08-Sep-20	14-Sep-20	44067	0	\$50,144.98	A-TEC
S241800		Test HCal LED Boards: Production	26	100%	20-Nov-20 A	31-Dec-20 A			15-Sep-20	11-Dec-20	0	671	\$58,523.15	B_T
S241900		Fabricate HCal Backplane Boards: Production - Labor	18	100%	01-May-20 A	28-May-20 A			09-Apr-20	28-Sep-20	0	128	\$15,202.23	B
S242000	003	Fabricate HCal Backplane Boards: Production - M&S	18	100%	01-May-20 A	28-May-20 A			09-Apr-20	28-Sep-20	15416	0	\$17,542.26	A-TEC
S242100		Test Hcal Backplane Boards: Production	31	100%	15-Oct-20 A	01-Dec-20 A			29-Dec-20	25-Mar-21	0	731	\$66,341.44	B_T
S242300		Fabricate HCal Interface Boards Production - Provide Requirements to Procur	5	100%	01-Apr-20 A	07-Apr-20 A			09-Apr-20	15-Apr-20	0	0	\$0.00	A-TEC
S242400		Fabricate HCal Interface Boards Production - Prepare & Send Solicitation	5	100%	08-Apr-20 A	14-Apr-20 A			16-Apr-20	22-Apr-20	0	0	\$0.00	
S242500		Fabricate HCal Interface Boards Production - Vendor Responses	5	100%	15-Apr-20 A	21-Apr-20 A			23-Apr-20	29-Apr-20	0	0	\$0.00	
S242600		Fabricate HCal Interface Boards Production - Vendor Selection	5	100%	22-Apr-20 A	28-Apr-20 A			30-Apr-20	06-May-20	0	0	\$0.00	
S242700		Fabricate HCal Interface Boards Production - Contract Award(s)	0	100%	29-Apr-20 A				07-May-20		0	0	\$0.00	A-TEC
S242800		Fabricate HCal Interface Boards Production - Contract/PO - Leadtime	127	100%	30-Apr-20 A	30-Oct-20 A			08-May-20	29-May-20	0	0	\$0.00	
S242900	003	Fabricate HCal Interface Boards Production - Delivery Acceptance	22	100%	14-Oct-20 A	16-Nov-20 A			01-Jun-20	05-Jun-20	29290	0	\$33,996.44	A-TEC
S243000		Test HCal Interface Boards: Production	21	100%	15-Oct-20 A	16-Nov-20 A			08-Jun-20	31-Aug-20	0	163	\$15,258.69	B_T
S243100		Procure HCal Electronics Production Power & Signal Cables (Internal) - Provi	5	100%	01-May-20 A	07-May-20 A			09-Apr-20	15-Apr-20	0	152	\$19,332.77	B
S243200		Procure HCal Electronics Production Power & Signal Cables (Internal) - Prep	5	100%	08-May-20 A	14-May-20 A			16-Apr-20	28-May-20	0	0	\$0.00	
S243300		Procure HCal Electronics Production Power & Signal Cables (Internal) - Vend	5	100%	15-May-20 A	21-May-20 A			29-May-20	11-Jun-20	0	0	\$0.00	
S243400		Procure HCal Electronics Production Power & Signal Cables (Internal) - Vend	5	100%	22-May-20 A	29-May-20 A			12-Jun-20	10-Jul-20	0	0	\$0.00	
S243500		Procure HCal Electronics Production Power & Signal Cables (Internal) - Contr	0	100%	27-May-20 A				13-Jul-20		0	0	\$0.00	A-TEC
S243600		Procure HCal Electronics Production Power & Signal Cables (Internal) - Contr	2	100%	27-May-20 A	29-May-20 A			13-Jul-20	05-Jan-21	0	0	\$0.00	
S243700	003	Procure HCal Electronics Production Power & Signal Cables (Internal) - Deliv	2	100%	27-May-20 A	29-May-20 A			06-Jan-21	12-Jan-21	81327	0	\$92,544.09	A-TEC
S243800		HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	188	100%	01-Apr-20 A	31-Dec-20 A			09-Apr-20	15-Apr-20	0	152	\$19,332.77	B
S243900		HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	312	100%	01-Apr-20 A	29-Jun-21 A			16-Apr-20	28-May-20	0	0	\$0.00	
S244000		HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	312	100%	01-Apr-20 A	29-Jun-21 A			29-May-20	11-Jun-20	0	0	\$0.00	

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S244100		HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	333	100%	01-Apr-20 A	29-Jul-21 A			12-Jun-20	10-Jul-20	0	0	\$0.00	
S244200		HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	0	100%	27-May-20 A				13-Jul-20		0	0	\$0.00	A-TEC
S244300		HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	479	100%	29-Apr-20 A	31-Mar-22 A			13-Jul-20	05-Oct-20	0	0	\$0.00	
S244400	003	HCal Electronics Prod Pwr & Sig Cables & LV/Bias Supplies & Controller (Ext	342	100%	14-Dec-20 A	27-Apr-22 A			06-Oct-20	13-Oct-20	87827	0	\$101,939.42	A-TEC
S244500		HCal Electronics Complete: Production	0	100%		30-Jun-21 A				05-Aug-21	0	0	\$0.00	
POM02.01.05.02.05 Calorimeter Front End Electronics Procure Contracted Labor and M&S			84		03-Jun-19 A	01-Oct-19 A			03-Jun-19	01-Oct-19	36833	0	\$36,833.29	
OBLG2448	004	Procure Contracted Labor & M&S Univ. Michigan (UM), Phase 1 - Obligation	1	100%	27-Jun-19 A	28-Jun-19 A			23-Jul-19	23-Jul-19	24544	0	\$24,543.51	A-OPC
OBLG2451	004	Procure Contracted Labor & M&S Univ. Michigan (UM), Phase 2 - Obligation	1	100%	03-Jul-19 A	05-Jul-19 A			01-Oct-19	01-Oct-19	12290	0	\$12,289.78	A-TEC
S244600	003	Procure Contracted Labor & M&S Univ. Michigan (UM) - Provide Requirement	5	100%	03-Jun-19 A	07-Jun-19 A			03-Jun-19	07-Jun-19	0	0	\$0.00	
S244700		Procure Contracted Labor & M&S Univ. Michigan (UM) - Vendor Selection	14	100%	10-Jun-19 A	28-Jun-19 A			10-Jun-19	22-Jul-19	0	0	\$0.00	
S244800	004	Procure Contracted Labor & M&S Univ. Michigan (UM), Phase 1 - Contract Aw	0	100%	28-Jun-19 A				23-Jul-19		0	0	\$0.00	A-OPC
S245100	004	Procure Contracted Labor & M&S Univ. Michigan (UM), Phase 2 - Contract Aw	0	100%	01-Oct-19 A				01-Oct-19		0	0	\$0.00	A-TEC
POM02.01.05.03 Calorimeter Digitizer System			1331		01-Feb-17 A	27-May-22 A			01-Feb-17	05-Aug-21	2318705	704	\$2,620,956.71	
POM02.01.05.03.01 Calorimeter Digitizer: Preproduction Prototype			918		01-Feb-17 A	30-Sep-20 A			01-Feb-17	18-Dec-19	346588	248	\$426,100.83	
OBLG2472		Procure 1/2-Crate Digitizer - Parts - Obligation	0	100%	07-May-18 A	07-May-18 A			07-May-18	07-May-18	0	0	\$0.00	A-OPC
OBLG2473		Procure 1/2-Crate Digitizer - Boards - Obligation	0	100%	07-May-18 A	07-May-18 A			07-May-18	07-May-18	0	0	\$0.00	A-OPC
OBLG2474		Procure 1/2-Crate Digitizer - Assembly & Tests - Obligation	0	100%	07-May-18 A	07-May-18 A			07-May-18	07-May-18	0	0	\$0.00	A-OPC
OBLG2504		Procure EMCAL 7-Crate Digitizer - Parts - Obligation	0	100%	31-Jan-19 A	31-Jan-19 A			31-Jan-19	31-Jan-19	0	0	\$0.00	A-OPC
OBLG2505		Procure EMCAL 7-Crate Digitizer (Boards) - Obligation	0	100%	31-Jan-19 A	31-Jan-19 A			31-Jan-19	31-Jan-19	0	0	\$0.00	A-OPC
OBLG2506		Procure EMCAL 7-Crate Digitizer (Assembly & Tests) - Obligation	0	100%	31-Jan-19 A	31-Jan-19 A			31-Jan-19	31-Jan-19	0	0	\$0.00	A-OPC
S245500	004	Review and write design change specifications for calorimeter digitizer system	39	100%	01-Feb-17 A	29-Mar-17 A			01-Feb-17	29-Mar-17	0	0	\$0.00	
S245600		Design Digitizer ADC Boards: 1/2-Crate Prototype	39	100%	30-Mar-17 A	24-May-17 A			30-Mar-17	24-May-17	0	0	\$0.00	
S245700		Design Digitizer Controller Board: 1/2-Crate Prototype	39	100%	30-Mar-17 A	24-May-17 A			30-Mar-17	24-May-17	0	0	\$0.00	
S245800		Design Digitizer XMIT Board: 1/2-Crate Prototype	39	100%	30-Mar-17 A	24-May-17 A			30-Mar-17	24-May-17	0	0	\$0.00	
S245900		Design Digitizer Clock Master: 1/2-Crate Prototype	59	100%	30-Mar-17 A	22-Jun-17 A			30-Mar-17	22-Jun-17	0	0	\$0.00	
S246000		Design Digitizer Crate: 1/2-Crate Prototype	29	100%	30-Mar-17 A	10-May-17 A			30-Mar-17	10-May-17	0	0	\$0.00	
S246100		Layout Digitizer ADC Board: 1/2-Crate Prototype	39	100%	25-May-17 A	21-Jul-17 A			25-May-17	21-Jul-17	0	0	\$0.00	
S246200		Layout Digitizer Controller Board: 1/2-Crate Prototype	39	100%	25-May-17 A	21-Jul-17 A			25-May-17	21-Jul-17	0	0	\$0.00	
S246300		Layout Digitizer XMIT Board: 1/2-Crate Prototype	39	100%	25-May-17 A	21-Jul-17 A			25-May-17	21-Jul-17	0	0	\$0.00	
S246400		Layout Digitizer Clock Master: 1/2-Crate	150	100%	23-Jun-17 A	01-Feb-18 A			23-Jun-17	01-Feb-18	0	0	\$0.00	
S246500		Calorimeter Digitizer System Electrical Safety Review	1	100%	01-May-18 A	02-May-18 A			01-May-18	02-May-18	0	0	\$0.00	
S246600		Calorimeter Digitizer Safety Review Complete	0	100%		02-May-18 A				02-May-18	0	0	\$0.00	
S246700		Review Calorimeter Digitizer Safety Review Report	12	100%	02-May-18 A	18-May-18 A			02-May-18	18-May-18	0	0	\$0.00	
S246701	004	Preliminary Design Review - Calorimeter Digitizer 7-crate	0	100%		02-May-18 A				02-May-18	0	0	\$0.00	
S246800		Procure 1/2-Crate Digitizer - Parts - Provide Requirements to Procurement	5	100%	09-Mar-18 A	16-Mar-18 A			09-Mar-18	16-Mar-18	0	0	\$0.00	
S246900		Procure 1/2-Crate Digitizer - Parts - Prepare & Send Solicitation	9	100%	02-Apr-18 A	13-Apr-18 A			02-Apr-18	13-Apr-18	0	0	\$0.00	
S247000		Procure 1/2-Crate Digitizer - Parts - Vendor Responses	10	100%	16-Apr-18 A	30-Apr-18 A			16-Apr-18	30-Apr-18	0	0	\$0.00	
S247100		Procure 1/2-Crate Digitizer - Parts - Vendor Selection	0	100%	01-May-18 A	01-May-18 A			01-May-18	01-May-18	0	0	\$0.00	
S247200		Procure 1/2-Crate Digitizer - Parts - Contract Award(s)	0	100%	07-May-18 A				07-May-18		0	0	\$0.00	A-OPC
S247300		Procure 1/2-Crate Digitizer - Boards - Contract Award(s)	0	100%	07-May-18 A				07-May-18		0	0	\$0.00	A-OPC
S247400		Procure 1/2-Crate Digitizer - Assembly & Tests - Contract Award(s)	0	100%	07-May-18 A				07-May-18		0	0	\$0.00	A-OPC
S247500		Procure 1/2-Crate Digitizer - Parts - Leadtime - FY18	83	100%	01-Jun-18 A	28-Sep-18 A			01-Jun-18	28-Sep-18	0	0	\$0.00	
S247600		Procure 1/2-Crate Digitizer - Parts - Leadtime - FY19	0	100%	01-Nov-18 A	01-Nov-18 A			01-Nov-18	01-Nov-18	0	0	\$0.00	
S247700		Procure 1/2-Crate Digitizer - Parts - Delivery Acceptance	4	100%	01-Nov-18 A	07-Nov-18 A			01-Nov-18	07-Nov-18	0	0	\$0.00	A-OPC
S247800		Procure 1/2-Crate Digitizer - Boards - Contract/PO - Leadtime FY18	83	100%	01-Jun-18 A	28-Sep-18 A			01-Jun-18	28-Sep-18	0	0	\$0.00	

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S247900		Procure 1/2-Crate Digitizer - Boards - Contract/PO - Leadtime FY19	0	100%	01-Nov-18 A	01-Nov-18 A			01-Nov-18	01-Nov-18	0	0	\$0.00	
S248000		Procure 1/2-Crate Digitizer - Boards - Delivery Acceptance	4	100%	01-Nov-18 A	07-Nov-18 A			01-Nov-18	07-Nov-18	0	0	\$0.00	A-OPC
S248100		Procure 1/2-Crate Digitizer - Contract/PO - Leadtime for Assembly & Tests	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	A-OPC
S248110		Procure 1/2-Crate Digitizer - Contract/PO - Leadtime for Assembly & Tests Spl	12	100%	03-Jun-19 A	19-Jun-19 A			03-Jun-19	10-Jul-19	0	0	\$0.00	
S248200		Procure 1/2-Crate Digitizer - Contract/PO - Delivery Acceptance for Assembly	6	100%	20-Jun-19 A	28-Jun-19 A			11-Jul-19	17-Jul-19	50000	0	\$55,163.25	A-OPC
S248300		Calorimeter Digitizer 1/2-Crate Complete	0	100%		01-Jul-19 A				17-Jul-19	0	0	\$0.00	
S248400		Review and write design change specifications for calorimeter digitizer system	12	100%	15-Aug-19 A	30-Aug-19 A			18-Jul-19	24-Jul-19	0	28	\$4,003.32	B
S248500		Design Digitizer ADC Boards: 7-Crate Preproduction	9	100%	23-Jan-19 A	05-Feb-19 A			23-Jan-19	05-Feb-19	0	0	\$0.00	B
S248600		Design Digitizer Controller Board: 7-Crate Preproduction	9	100%	23-Jan-19 A	05-Feb-19 A			23-Jan-19	05-Feb-19	0	0	\$0.00	B
S248700		Design Digitizer XMIT Board: 7-Crate Preproduction	9	100%	23-Jan-19 A	05-Feb-19 A			23-Jan-19	05-Feb-19	0	0	\$0.00	B
S248800		Design Digitizer Clock Master: 7-Crate Preproduction	90	100%	23-Jan-19 A	31-May-19 A			23-Jan-19	31-May-19	0	0	\$0.00	B
S248810		Design Digitizer Clock Master: 7-Crate Preproduction Split	19	100%	03-Jun-19 A	28-Jun-19 A			25-Jul-19	07-Aug-19	0	10	\$1,429.76	B
S248900		Design Digitizer Crate: 7-Crate Preproduction	9	100%	23-Jan-19 A	05-Feb-19 A			23-Jan-19	05-Feb-19	0	0	\$0.00	B
S249000		Layout Digitizer ADC Board: 7-Crate Preproduction	9	100%	06-Feb-19 A	20-Feb-19 A			06-Feb-19	20-Feb-19	0	0	\$0.00	B
S249100		Layout Digitizer Controller Board: 7-Crate Preproduction	9	100%	06-Feb-19 A	20-Feb-19 A			06-Feb-19	20-Feb-19	0	0	\$0.00	B
S249200		Layout Digitizer XMIT Board: 7-Crate Preproduction	9	100%	06-Feb-19 A	20-Feb-19 A			06-Feb-19	20-Feb-19	0	0	\$0.00	B
S249300		Layout Digitizer Clock Master: 7-Crate Preproduction	80	100%	06-Feb-19 A	31-May-19 A			06-Feb-19	31-May-19	0	0	\$0.00	B
S249310		Layout Digitizer Clock Master: 7-Crate Preproduction Split	19	100%	03-Jun-19 A	28-Jun-19 A			08-Aug-19	21-Aug-19	0	10	\$1,429.76	B
S249400	004	Final Design Review, Procurement Readiness Review, Electrical Safety Revie	5	100%	15-Aug-19 A	22-Aug-19 A			22-Aug-19	05-Sep-19	0	80	\$11,438.06	B
S249500		Calorimeter Digitizer Safety Review Complete	0	100%		30-Aug-19 A				05-Sep-19	0	0	\$0.00	
S249600		Review Calorimeter Digitizer Safety Review Report	6	100%	22-Aug-19 A	30-Aug-19 A			06-Sep-19	12-Sep-19	0	120	\$17,157.09	B
S249700		Procure EMCAL 7-Crate Digitizer - Provide Requirements to Procurement FY1	31	100%	15-Aug-18 A	28-Sep-18 A			15-Aug-18	28-Sep-18	0	0	\$0.00	
S249800		Procure EMCAL 7-Crate Digitizer - Provide Requirements to Procurement FY1	21	100%	02-Jan-19 A	01-Feb-19 A			02-Jan-19	01-Feb-19	0	0	\$0.00	B
S249900		Procure EMCAL 7-Crate Digitizer - Prepare & Send Solicitation FY18	31	100%	15-Aug-18 A	28-Sep-18 A			15-Aug-18	28-Sep-18	0	0	\$0.00	
S250000		Procure EMCAL 7-Crate Digitizer - Prepare & Send Solicitation FY19	0	100%	02-Jan-19 A	02-Jan-19 A			02-Jan-19	02-Jan-19	0	0	\$0.00	
S250100		Procure EMCAL 7-Crate Digitizer - Vendor Responses FY18	31	100%	15-Aug-18 A	28-Sep-18 A			15-Aug-18	28-Sep-18	0	0	\$0.00	
S250200		Procure EMCAL 7-Crate Digitizer - Vendor Responses FY19	0	100%	02-Jan-19 A	02-Jan-19 A			02-Jan-19	02-Jan-19	0	0	\$0.00	
S250300		Procure EMCAL 7-Crate Digitizer - Vendor Selection	19	100%	02-Jan-19 A	30-Jan-19 A			02-Jan-19	30-Jan-19	0	0	\$0.00	
S250400		Procure EMCAL 7-Crate Digitizer - Parts - Contract Award	0	100%	01-Aug-19 A				03-Jun-19		0	0	\$0.00	A-OPC
S250500		Procure EMCAL 7-Crate Digitizer - Boards - Contract Award	0	100%	01-Aug-19 A				03-Jun-19		0	0	\$0.00	A-OPC
S250600		Procure EMCAL 7-Crate Digitizer - Assembly & Tests - Contract Award	0	100%	02-Dec-19 A				03-Jun-19		0	0	\$0.00	A-OPC
S250700		Procure EMCAL 7-Crate Digitizer - Parts - Leadtime	18	100%	06-May-19 A	31-May-19 A			06-May-19	31-May-19	0	0	\$0.00	
S250710		Procure EMCAL 7-Crate Digitizer - Parts - Leadtime Split	0	100%	30-Jul-19 A	30-Jul-19 A			13-Sep-19	13-Sep-19	0	0	\$0.00	
S250800		Procure EMCAL 7-Crate Digitizer - Boards - Leadtime	18	100%	06-May-19 A	31-May-19 A			06-May-19	31-May-19	0	0	\$0.00	
S250810		Procure EMCAL 7-Crate Digitizer - Boards - Leadtime Split	0	100%	30-Jul-19 A	30-Jul-19 A			13-Sep-19	13-Sep-19	0	0	\$0.00	
S250900		Procure EMCAL 7-Crate Digitizer - Assembly & Tests - Leadtime	63	100%	04-May-20 A	31-Jul-20 A			20-Sep-19	11-Dec-19	0	0	\$0.00	
S251000	004	Procure EMCAL 7-Crate Digitizer - Parts - Delivery Acceptance	57	100%	03-Sep-19 A	25-Nov-19 A			13-Sep-19	19-Sep-19	177359	0	\$199,805.84	A-OPC
S251100	004	Procure EMCAL 7-Crate Digitizer (Boards) - Delivery Acceptance	154	100%	19-Nov-19 A	30-Jun-20 A			13-Sep-19	19-Sep-19	39371	0	\$44,801.28	A-OPC
S251200	004	Procure EMCAL 7-Crate Digitizer (Assembly & Tests) - Delivery Acceptance	41	100%	03-Aug-20 A	30-Sep-20 A			12-Dec-19	18-Dec-19	79858	0	\$90,872.48	A-OPC
S251300		Preprod Calorimeter Digitizer 7-Crate Complete	0	100%		30-Sep-20 A				18-Dec-19	0	0	\$0.00	
POM02.01.05.03.02 Calorimeter Digitizers: Production			510		13-May-20 A	27-May-22 A			19-Dec-19	05-Aug-21	1972117	456	\$2,194,855.88	
OBLG2521		Procure Production Digitizer (Parts) Obligation	1	100%	22-Dec-20 A	22-Dec-20 A			01-Oct-20	01-Oct-20	678538	0	\$678,538.48	A-TEC
OBLG2522		Procure Production Digitizer (Boards) - Obligation	1	100%	22-Dec-20 A	22-Dec-20 A			01-Oct-20	01-Oct-20	149785	0	\$149,785.17	A-TEC
OBLG2523		Procure Production Digitizer (Assembly & Tests) - Obligation	1	100%	22-Dec-20 A	22-Dec-20 A			01-Oct-20	01-Oct-20	231066	0	\$231,065.59	A-TEC
S251400	004	Production Readiness & Safety Review: Calorimeter Digitizers	5	100%	01-Dec-20 A	07-Dec-20 A			19-Dec-19	26-Dec-19	0	160	\$24,269.27	B

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Activity ID	BNL_PCRF ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S251500	004	Complete: Procurement Readiness Review, Safety Review - Calorimeter Digit	0	100%		07-Dec-20 A				26-Dec-19	0	0	\$0.00	
S251600		Review Calorimeter Electronics Readiness & Safety Review Report	10	100%	08-Dec-20 A	21-Dec-20 A			27-Dec-19	10-Jan-20	0	136	\$20,628.88	B
S251700		Procure Production Digitizer - Provide Requirements to Procurement	9	100%	13-May-20 A	27-May-20 A			13-Jan-20	10-Feb-20	0	160	\$23,562.40	B
S251800		Procure Production Digitizer - Prepare & Send Solicitation	9	100%	13-May-20 A	27-May-20 A			11-Feb-20	24-Mar-20	0	0	\$0.00	
S251900		Procure Production Digitizer - Vendor Responses	9	100%	13-May-20 A	27-May-20 A			25-Mar-20	21-Apr-20	0	0	\$0.00	
S252000		Procure Production Digitizer - Vendor Selection	9	100%	13-May-20 A	27-May-20 A			22-Apr-20	17-Jun-20	0	0	\$0.00	
S252100		Procure Production Digitizer (Parts) Contract Award(s)	0	100%	02-Nov-20 A				01-Oct-20		0	0	\$0.00	A-TEC
S252200		Procure Production Digitizer (Boards) Contract Award(s)	0	100%	02-Nov-20 A				01-Oct-20		0	0	\$0.00	A-TEC
S252300		Procure Production Digitizer (Assembly & Tests) - Contract Award(s)	0	100%	02-Nov-20 A				01-Oct-20		0	0	\$0.00	A-TEC
S252400		Procure Production Digitizer - Contract/PO - Leadtime for Parts	134	100%	16-Nov-20 A	31-May-21 A			01-Oct-20	22-Dec-20	0	0	\$0.00	
S252500		Procure Production Digitizer - Contract/PO - Leadtime for Boards	280	100%	16-Nov-20 A	31-Dec-21 A			01-Oct-20	22-Dec-20	0	0	\$0.00	
S252600		Procure Production Digitizer - Contract/PO - Leadtime for Assembly & Tests	150	100%	20-Jul-21 A	28-Feb-22 A			31-Dec-20	22-Mar-21	0	0	\$0.00	
S252700		Procure Production Digitizer (Parts) - Delivery Acceptance	206	100%	30-Apr-21 A	28-Feb-22 A			23-Dec-20	30-Dec-20	584602	0	\$678,538.37	A-TEC
S252800		Procure Production Digitizer (Boards) - Delivery Acceptance	90	100%	16-Aug-21 A	28-Dec-21 A			23-Dec-20	30-Dec-20	129049	0	\$152,780.85	A-TEC
S252900		Procure Production Digitizer (Assembly & Tests) - Delivery Acceptance	195	100%	16-Aug-21 A	27-May-22 A			23-Mar-21	29-Mar-21	199077	0	\$235,686.86	A-TEC
S253000		Calorimeter Digitizer Production Complete	0	100%		27-May-22 A				29-Mar-21	0	0	\$0.00	
S253100		Calorimeter Electronics Complete	0	100%		27-May-22 A				05-Aug-21	0	0	\$0.00	
POM02.01.06 DAQ/Trigger			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	16-Sep-21	2167922	23677	\$5,170,733.86	
S1000919	003	Actuals - Labor - sPHENIX DAQ&Trigger FY19 M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	1639	\$273,848.54	B
S1000959	003	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY18	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	21020	0	\$23,190.70	A-OPC
S253200	003	Actuals - Labor - sPHENIX DAQ&Trigger FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	766	\$127,929.66	B
S253300	003	Actuals - Labor - sPHENIX DAQ&Trigger FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	2563	\$428,317.57	B
S253400	003	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	A-OPC
S253500	003	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY18	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	2493	0	\$2,781.51	A-OPC
POM02.01.06.01 DAQ			1397		01-Feb-17 A	31-Aug-22 A			01-Feb-17	15-Sep-21	1242473	10271	\$2,564,729.26	
POM02.01.06.01.01 DAQ Design			384		01-Feb-17 A	13-Aug-18 A			01-Feb-17	13-Aug-18	0	0	\$0.00	
S253600		DAQ Design: DAQ Prototype Design	99	100%	01-Feb-17 A	22-Jun-17 A			01-Feb-17	22-Jun-17	0	0	\$0.00	
S253700		DAQ Design: Specify front-end layout	240	100%	23-Jun-17 A	10-Jun-18 A			23-Jun-17	10-Jun-18	0	0	\$0.00	
S253800		DAQ Design: Specify the event Builder and back-end layout	50	100%	30-Mar-18 A	10-Jun-18 A			30-Mar-18	10-Jun-18	0	0	\$0.00	
S253900		DAQ Design: Specify the high-level components	10	100%	11-Jun-18 A	25-Jun-18 A			11-Jun-18	25-Jun-18	0	0	\$0.00	
S254000	004	Final Design Review - DAQ Design	29	100%	02-Jul-18 A	13-Aug-18 A			02-Jul-18	13-Aug-18	0	0	\$0.00	
POM02.01.06.01.02 DAQ Prototype			654		31-Jul-18 A	15-Mar-21 A			31-Jul-18	14-Nov-19	0	2307	\$302,889.48	
S254100		DAQ Prototype: Select which hardware to re-use: computers, a network switch	9	100%	14-Aug-18 A	27-Aug-18 A			14-Aug-18	27-Aug-18	0	0	\$0.00	
S254200		DAQ Prototype: Setup and install the various operating systems FY18	22	100%	28-Aug-18 A	28-Sep-18 A			28-Aug-18	28-Sep-18	0	0	\$0.00	
S254300		DAQ Prototype: Setup and install the various operating systems FY19	101	100%	01-Oct-18 A	01-Mar-19 A			01-Oct-18	01-Mar-19	0	0	\$0.00	B
S254400		DAQ Prototype: Software development - Calorimeters & TPC FY18	42	100%	31-Jul-18 A	28-Sep-18 A			31-Jul-18	28-Sep-18	0	0	\$0.00	
S254500		DAQ Prototype: Software development - Calorimeters & TPC FY19	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B
S254502		DAQ Prototype: Software development - Calorimeters & TPC FY19 Split	145	100%	03-Jun-19 A	02-Jan-20 A			03-Jun-19	01-Aug-19	0	595	\$88,302.26	B
S254600	005	DAQ Prototype: Software development - INTT FELIX readout test_80%	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	24-Sep-19	0	334	\$44,550.09	B
S254700	005	DAQ Prototype: Software development - INTT FELIX/DCM2 Downselect Revi	5	100%	13-Nov-19 A	20-Nov-19 A			25-Sep-19	26-Sep-19	0	334	\$45,886.59	B
S254800	005	DAQ Prototype: Software development - Multiple Subsystem Test	445	100%	03-Jun-19 A	15-Mar-21 A			03-Jun-19	08-Oct-19	0	808	\$94,648.78	B_T
S254900		DAQ Prototype: Installation and testing	9	100%	15-Jan-20 A	29-Jan-20 A			09-Oct-19	06-Nov-19	0	96	\$7,318.58	B_T
S255000	004	DAQ Prototype: Review of DAQ Prototype Results and Production Readiness	16	100%	07-Jan-20 A	30-Jan-20 A			07-Nov-19	14-Nov-19	0	120	\$19,659.05	B
S255100	004	Production Readiness Review - DAQ	2	100%	24-Aug-20 A	26-Aug-20 A			14-Nov-19	14-Nov-19	0	20	\$2,524.13	B
POM02.01.06.01.03 DAQ Production			646		04-Feb-20 A	31-Aug-22 A			15-Nov-19	15-Sep-21	1242473	7964	\$2,261,839.78	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
OBLG2557		Procure DAQ Production Boards - Obligation	1	100%	08-Dec-20 A	09-Dec-20 A			18-May-20	18-May-20	119120	0	\$119,120.35	A-TEC
OBLG2565		Procure DAQ Production Crates - Obligation	1	100%	08-Dec-20 A	09-Dec-20 A			20-Apr-20	20-Apr-20	72827	0	\$72,827.25	A-TEC
OBLG2574		Procure DAQ Production SEBs - Obligation	1	100%	08-Dec-20 A	09-Dec-20 A			16-Jun-20	16-Jun-20	47634	0	\$47,634.49	A-TEC
OBLG2582		Procure DAQ Production ATPs - Obligation	1	100%	01-Dec-20 A	01-Dec-20 A			16-Jun-20	16-Jun-20	113803	0	\$113,802.79	A-TEC
OBLG2593		Procure DAQ Production Buffer Boxes - Obligation	1	100%	01-Dec-20 A	01-Dec-20 A			16-Jun-20	16-Jun-20	259459	0	\$259,459.41	A-TEC
OBLG2601		Procure DAQ Production Main Switches - Obligation	32	100%	15-Oct-20 A	02-Dec-20 A			16-Jun-20	16-Jun-20	99994	0	\$99,994.13	A-TEC
S255200		DAQ Production: Design and layout the various types of front-end boards	4	100%	03-Aug-20 A	07-Aug-20 A			15-Nov-19	15-Jan-20	0	96	\$16,199.06	B
S255300		Procure DAQ Production Boards - Provide Requirements to Procurement	2	100%	10-Aug-20 A	12-Aug-20 A			16-Jan-20	06-Feb-20	0	64	\$9,707.71	B
S255400		Procure DAQ Production Boards - Prepare & Send Solicitation	2	100%	13-Aug-20 A	17-Aug-20 A			07-Feb-20	20-Mar-20	0	0	\$0.00	
S255500		Procure DAQ Production Boards - Vendor Responses	4	100%	18-Aug-20 A	24-Aug-20 A			23-Mar-20	10-Apr-20	0	0	\$0.00	
S255600		Procure DAQ Production Boards - Vendor Selection	21	100%	01-Apr-21 A	30-Apr-21 A			13-Apr-20	15-May-20	0	0	\$0.00	
S255700		Procure DAQ Production Boards DCM2 - Contract Award(s)	0	100%	22-Nov-21 A				18-May-20		0	0	\$0.00	A-TEC
S255800		Procure DAQ Production Boards DCM2 - Contract/PO - Leadtime	176	100%	15-Nov-21 A	29-Jul-22 A			18-May-20	09-Sep-20	0	0	\$0.00	
S255900	034A	Procure DAQ Production Boards DCM2 - Delivery Acceptance	19	100%	01-Jul-22 A	29-Jul-22 A			08-Mar-21	12-Mar-21	0	0	\$0.00	A-TEC
S256000		DAQ Production Boards DCM2: Firmware updates	20	100%	01-Jul-21 A	30-Jul-21 A			15-Mar-21	31-Aug-21	0	1264	\$140,530.97	B_T
S256100		Procure DAQ Production Crates - Provide Requirements to Procurement	14	100%	16-Mar-21 A	05-Apr-21 A			16-Jan-20	23-Jan-20	0	160	\$26,316.14	B
S256200		Procure DAQ Production Crates - Prepare & Send Solicitation	18	100%	06-Apr-21 A	30-Apr-21 A			24-Jan-20	06-Mar-20	0	0	\$0.00	
S256300		Procure DAQ Production Crates - Vendor Responses	4	100%	05-Apr-21 A	09-Apr-21 A			09-Mar-20	20-Mar-20	0	0	\$0.00	
S256400		Procure DAQ Production Crates - Vendor Selection	4	100%	05-Apr-21 A	09-Apr-21 A			23-Mar-20	17-Apr-20	0	0	\$0.00	
S256500		Procure DAQ Production Crates - Contract Award(s)	0	100%	22-Nov-21 A				20-Apr-20		0	0	\$0.00	A-TEC
S256600		Procure DAQ Production Crates - Contract/PO - Leadtime	133	100%	15-Nov-21 A	27-May-22 A			20-Apr-20	09-Sep-20	0	0	\$0.00	
S256700	015	Procure DAQ Production Crates - Delivery Acceptance	19	100%	01-Jul-22 A	29-Jul-22 A			08-Mar-21	12-Mar-21	64000	0	\$75,769.47	A-TEC
S256800		DAQ Production: Crate installation	435	100%	07-Dec-20 A	31-Aug-22 A			15-Mar-21	21-Jun-21	0	608	\$75,794.39	B
S256900		DAQ Production: Selecting the right technology and brands	20	100%	02-Dec-20 A	31-Dec-20 A			16-Jan-20	13-Mar-20	0	192	\$31,579.37	B
S257000		Procure DAQ Production SEBs - Provide Requirements to Procurement	9	100%	04-Feb-20 A	18-Feb-20 A			16-Mar-20	20-Mar-20	0	160	\$25,549.65	B
S257100		Procure DAQ Production SEBs - Prepare & Send Solicitation	113	100%	16-Mar-20 A	24-Aug-20 A			23-Mar-20	01-May-20	0	0	\$0.00	
S257200		Procure DAQ Production SEBs - Vendor Responses	113	100%	16-Mar-20 A	24-Aug-20 A			04-May-20	15-May-20	0	0	\$0.00	
S257300		Procure DAQ Production SEBs - Vendor Selection	132	100%	24-Mar-20 A	29-Sep-20 A			18-May-20	15-Jun-20	0	0	\$0.00	
S257400		Procure DAQ Production SEBs - Contract Award(s)	0	100%	30-Sep-20 A				16-Jun-20		0	0	\$0.00	A-TEC
S257500		Procure DAQ Production SEBs - Contract/PO - Leadtime	11	100%	15-Oct-20 A	30-Oct-20 A			16-Jun-20	08-Dec-20	0	0	\$0.00	
S257600	015	Procure DAQ Production SEBs - Delivery Acceptance	20	100%	28-Oct-20 A	30-Nov-20 A			08-Mar-21	12-Mar-21	41040	0	\$47,634.48	A-TEC
S257700		Production SEBs - Setup Machines	12	100%	09-Nov-20 A	30-Nov-20 A			15-Mar-21	19-Mar-21	0	40	\$7,090.75	B
S257800		Procure DAQ Production ATPs - Provide Requirements to Procurement	39	100%	30-Jun-20 A	25-Aug-20 A			16-Mar-20	20-Mar-20	0	160	\$26,316.14	B
S257900		Procure DAQ Production ATPs - Prepare & Send Solicitation	2	100%	21-Aug-20 A	25-Aug-20 A			23-Mar-20	01-May-20	0	0	\$0.00	
S258000		Procure DAQ Production ATPs - Vendor Responses	15	100%	04-Aug-20 A	25-Aug-20 A			04-May-20	15-May-20	0	0	\$0.00	
S258100		Procure DAQ Production ATPs - Vendor Selection	20	100%	01-Sep-20 A	29-Sep-20 A			18-May-20	15-Jun-20	0	0	\$0.00	
S258200		Procure DAQ Production ATPs - Contract Award(s)	0	100%	30-Sep-20 A				16-Jun-20		0	0	\$0.00	A-TEC
S258300		Procure DAQ Production ATPs - Contract/PO - Leadtime	20	100%	01-Oct-20 A	30-Oct-20 A			16-Jun-20	05-Nov-20	0	0	\$0.00	
S258400	015	Procure DAQ Production ATPs - Delivery Acceptance	25	100%	22-Oct-20 A	30-Nov-20 A			12-Apr-21	16-Apr-21	98048	0	\$113,802.78	A-TEC
S258500		Production ATPs - Setup Machines	11	100%	10-Nov-20 A	30-Nov-20 A			19-Apr-21	23-Apr-21	0	40	\$7,090.75	B
S258600		DAQ Production: Procure jackboard Slow control computers	400	100%	20-Jul-20 A	28-Feb-22 A			16-Jun-20	22-Jun-20	0	160	\$26,316.14	B
S258700	003	Procure DAQ Production jackboard Slow control computers - Delivery Acceptance	4	100%	21-Feb-22 A	28-Feb-22 A			23-Jun-20	29-Jun-20	16856	0	\$19,955.78	A-TEC
S258800		Production jackboard Slow control computers - Setup Machines	19	100%	02-May-22 A	27-May-22 A			30-Jun-20	07-Jul-20	0	40	\$7,303.48	B
S258900		Procure DAQ Production Buffer Boxes - Provide Requirements to Procurement	11	100%	10-Aug-20 A	25-Aug-20 A			16-Mar-20	20-Mar-20	0	80	\$13,158.07	B
S259000		Procure DAQ Production Buffer Boxes - Prepare & Send Solicitation	11	100%	10-Aug-20 A	25-Aug-20 A			23-Mar-20	01-May-20	0	0	\$0.00	

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S259100		Procure DAQ Production Buffer Boxes - Vendor Responses	11	100%	10-Aug-20 A	25-Aug-20 A			04-May-20	15-May-20	0	0	\$0.00	
S259200		Procure DAQ Production Buffer Boxes - Vendor Selection	12	100%	14-Oct-20 A	30-Oct-20 A			18-May-20	15-Jun-20	0	0	\$0.00	
S259300		Procure DAQ Production Buffer Boxes - Contract Award(s)	0	100%	28-Oct-20 A				16-Jun-20		0	0	\$0.00	A-TEC
S259400		Procure DAQ Production Buffer Boxes - Contract/PO - Leadtime	20	100%	28-Oct-20 A	30-Nov-20 A			16-Jun-20	05-Nov-20	0	0	\$0.00	
S259500	015	Procure DAQ Production Buffer Boxes - Delivery Acceptance	214	100%	23-Nov-20 A	30-Sep-21 A			29-Apr-21	05-May-21	223540	0	\$259,459.37	A-TEC
S259600		Production Buffer Boxes - Setup Machines	253	100%	23-Nov-20 A	30-Nov-21 A			06-May-21	12-May-21	0	40	\$7,090.75	B
S259700		Procure DAQ Production Main Switches - Provide Requirements to Procurement	10	100%	02-Mar-20 A	16-Mar-20 A			16-Mar-20	20-Mar-20	0	192	\$30,659.59	B
S259800		Procure DAQ Production Main Switches - Prepare & Send Solicitation	15	100%	10-Mar-20 A	31-Mar-20 A			23-Mar-20	01-May-20	0	0	\$0.00	
S259900		Procure DAQ Production Main Switches - Vendor Responses	6	100%	17-Mar-20 A	25-Mar-20 A			04-May-20	15-May-20	0	0	\$0.00	
S260000		Procure DAQ Production Main Switches - Vendor Selection	9	100%	17-Mar-20 A	30-Mar-20 A			18-May-20	15-Jun-20	0	0	\$0.00	
S260100		Procure DAQ Production Main Switches - Contract Award(s)	0	100%	30-Mar-20 A				16-Jun-20		0	0	\$0.00	A-TEC
S260200		Procure DAQ Production Main Switches - Contract/PO - Leadtime	13	100%	01-Apr-20 A	20-Apr-20 A			16-Jun-20	08-Dec-20	0	0	\$0.00	
S260300	003	Procure DAQ Production Main Switches - Delivery Acceptance	3	100%	21-Apr-20 A	24-Apr-20 A			09-Dec-20	15-Dec-20	86151	0	\$99,994.11	A-TEC
S260400		DAQ Production: Setting up the switches	160	100%	12-Feb-21 A	30-Sep-21 A			16-Dec-20	14-Jan-21	0	188	\$29,265.92	B
S260500		DAQ Production: Modify and Debug event builder software	64	100%	26-Apr-21 A	27-Jul-21 A			26-Apr-21	21-Jun-21	0	640	\$105,264.58	B
S260600		DAQ Production: DAQ Software development	353	100%	16-Nov-20 A	17-Apr-22 A			15-Nov-19	13-Nov-20	0	3520	\$290,832.34	B_T
S260700		DAQ Production: Internal Readiness Review	19	100%	01-Jul-22 A	29-Jul-22 A			01-Sep-21	15-Sep-21	0	320	\$56,319.54	B
S260800		DAQ Production: DAQ Ready for Operation	0	100%		31-Aug-22 A				15-Sep-21	0	0	\$0.00	
POM02.01.06.02 Local Level 1 Trigger (LL1)			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	16-Sep-21	752302	1286	\$829,466.12	
POM02.01.06.02.01 LL1 Trigger Design			586		01-Feb-17 A	04-Jun-19 A			01-Feb-17	04-Jun-19	0	0	\$0.00	
OBLG2614		Trigger Design, Layout Custom LL1 - Obligation	0	100%	28-Sep-18 A	28-Sep-18 A			28-Sep-18	28-Sep-18	0	0	\$0.00	A-TEC
S260900	004	Trigger Design: Write design specifications, Preliminary Design Review	289	100%	01-Feb-17 A	29-Mar-18 A			01-Feb-17	29-Mar-18	0	0	\$0.00	
S261000		Trigger Design, Layout Custom LL1 - Provide Requirements to Procurement	4	100%	30-Mar-18 A	05-Apr-18 A			30-Mar-18	05-Apr-18	0	0	\$0.00	
S261100		Trigger Design, Layout Custom LL1 - Prepare & Send Solicitation	29	100%	06-Apr-18 A	17-May-18 A			06-Apr-18	17-May-18	0	0	\$0.00	
S261200		Trigger Design, Layout Custom LL1 - Vendor Responses	9	100%	18-May-18 A	01-Jun-18 A			18-May-18	01-Jun-18	0	0	\$0.00	
S261300		Trigger Design, Layout Custom LL1 - Vendor Selection	39	100%	04-Jun-18 A	30-Jul-18 A			04-Jun-18	30-Jul-18	0	0	\$0.00	
S261400		Trigger Design, Layout Custom LL1 - Contract Award(s)	0	100%	28-Sep-18 A				28-Sep-18		0	0	\$0.00	A-TEC
S261500		Trigger Design, Layout Custom LL1 - Contract/PO - Leadtime	167	100%	01-Oct-18 A	03-Jun-19 A			01-Oct-18	03-Jun-19	0	0	\$0.00	
S261600	005	Trigger Design, Layout Custom LL1 - Delivery Acceptance	1	100%	04-Jun-19 A	04-Jun-19 A			04-Jun-19	04-Jun-19	0	0	\$0.00	A-TEC
S261700		Trigger Design, per Downselect of gFEX mod versus Layout Custom LL1	6	100%	08-Mar-19 A	15-Mar-19 A			08-Mar-19	15-Mar-19	0	0	\$0.00	T
S261800	004	Trigger Design, gFEX Downselect Intermediate Design Review	1	100%	18-Mar-19 A	18-Mar-19 A			18-Mar-19	18-Mar-19	0	0	\$0.00	T
POM02.01.06.02.02 LL1 Trigger Prototype v1			486		19-Mar-19 A	26-Feb-21 A			19-Mar-19	13-Jul-20	369861	324	\$401,473.56	
OBLG2623		Procure Prototype V1 Trigger Board - Obligation	1	100%	01-Jul-19 A	01-Jul-19 A			03-Jul-19	03-Jul-19	196861	0	\$196,861.16	A-TEC
S261900		Procure Prototype V1 Trigger Board - Provide Requirements to Procurement	5	100%	19-Mar-19 A	25-Mar-19 A			19-Mar-19	25-Mar-19	0	0	\$0.00	T
S262000		Procure Prototype V1 Trigger Board - Prepare & Send Solicitation	18	100%	26-Mar-19 A	18-Apr-19 A			26-Mar-19	18-Apr-19	0	0	\$0.00	
S262100		Procure Prototype V1 Trigger Board - Vendor Responses	7	100%	05-Jun-19 A	13-Jun-19 A			05-Jun-19	13-Jun-19	0	0	\$0.00	
S262200		Procure Prototype V1 Trigger Board - Vendor Selection	10	100%	14-Jun-19 A	28-Jun-19 A			14-Jun-19	02-Jul-19	0	0	\$0.00	
S262300	005	Procure Prototype V1 Trigger Board - Contract Award(s)	0	100%	01-Jul-19 A				03-Jul-19		0	0	\$0.00	A-TEC
S262400		Procure Prototype V1 Trigger Board - Contract/PO - Leadtime	172	100%	01-Jul-19 A	10-Mar-20 A			03-Jul-19	10-Mar-20	0	0	\$0.00	
S262500		Procure Prototype V1 Trigger Board - Delivery Acceptance	5	100%	11-Mar-20 A	17-Mar-20 A			11-Mar-20	17-Mar-20	173000	0	\$196,861.16	A-TEC
S262600		Trigger Prototype v1: Test trigger systems	184	100%	01-Jun-20 A	26-Feb-21 A			18-Mar-20	09-Jul-20	0	240	\$0.00	T
S262700		Trigger Prototype v1: Preprod complete	0	100%		26-Feb-21 A				09-Jul-20	0	0	\$0.00	
S262800		Trigger Prototype v1: Preproduction Readiness Review and Design Specificat	3	100%	23-Feb-21 A	26-Feb-21 A			10-Jul-20	13-Jul-20	0	64	\$5,672.60	B_T
S262801	004	Preliminary Design Review - DAQ Local Level-1	3	100%	23-Feb-21 A	26-Feb-21 A			13-Jul-20	13-Jul-20	0	20	\$2,078.63	B
POM02.01.06.02.03 LL1 Trigger Preproduction Prototype			216		22-Feb-21 A	31-Dec-21 A			14-Jul-20	05-Jan-21	129641	402	\$146,517.73	

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OBLG2634		Procure Trigger Preproduction Prototype LL1 - Obligation	1	100%	15-Jun-21 A	16-Jun-21 A			28-Jul-20	28-Jul-20	69641	0	\$69,641.07	A-TEC
S262900	004	Trigger LL1 Preproduction Prototype: Electrical Safety and Final Design Review	4	100%	22-Feb-21 A	26-Feb-21 A			14-Jul-20	15-Jul-20	0	10	\$0.00	T
S263000		Procure Trigger Preproduction Prototype LL1 - Provide Requirements to Procurement	4	100%	22-Feb-21 A	26-Feb-21 A			16-Jul-20	22-Jul-20	0	48	\$0.00	T
S263100		Procure Trigger Preproduction Prototype LL1 - Prepare & Send Solicitation	4	100%	22-Feb-21 A	26-Feb-21 A			23-Jul-20	23-Jul-20	0	0	\$0.00	
S263200		Procure Trigger Preproduction Prototype LL1 - Vendor Responses	4	100%	22-Feb-21 A	26-Feb-21 A			24-Jul-20	24-Jul-20	0	0	\$0.00	
S263300		Procure Trigger Preproduction Prototype LL1 - Vendor Selection	1	100%	01-Mar-21 A	01-Mar-21 A			27-Jul-20	27-Jul-20	0	0	\$0.00	
S263400		Procure Trigger Preproduction Prototype LL1 - Contract Award(s)	0	100%	01-Mar-21 A				28-Jul-20		0	0	\$0.00	A-TEC
S263500		Procure Trigger Preproduction Prototype LL1 - Contract/PO - Leadtime	186	100%	31-Mar-21 A	28-Dec-21 A			28-Jul-20	21-Oct-20	0	0	\$0.00	
S263600	015	Procure Trigger Preproduction Prototype LL1 - Delivery Acceptance	5	100%	13-Dec-21 A	20-Dec-21 A			01-Dec-20	07-Dec-20	60000	0	\$71,033.88	A-TEC
S263700	015	Trigger LL1 Preproduction Prototype: Test trigger systems	47	100%	04-Oct-21 A	14-Dec-21 A			08-Dec-20	29-Dec-20	0	280	\$0.00	T
S263800	004	Final Design Review - DAQ Local Level-1	1	100%	22-Dec-21 A	23-Dec-21 A			30-Dec-20	05-Jan-21	0	64	\$5,842.78	B_T
S263900		Trigger LL1 Preproduction complete	0	100%		31-Dec-21 A				05-Jan-21	0	0	\$0.00	
POM02.01.06.02.04 LL1 Trigger Production			409		15-Mar-21 A	28-Oct-22 A			06-Jan-21	16-Sep-21	252800	560	\$281,474.83	
OBLG2647		Procure Production LL1 System - Obligation	1	100%	29-Sep-21 A	30-Sep-21 A			01-Apr-21	01-Apr-21	135800	0	\$135,800.09	A-TEC
S264000	015	Trigger LL1 Production: Updates to trigger board: Production	8	100%	20-Dec-21 A	31-Dec-21 A			06-Jan-21	12-Jan-21	0	136	\$0.00	T
S264100		Trigger LL1 Production: final updates to trigger crate requirements	8	100%	20-Dec-21 A	31-Dec-21 A			13-Jan-21	20-Jan-21	0	20	\$0.00	T
S264200	004	Production Readiness Review - DAQ Local Level-1	10	100%	01-Jun-22 A	15-Jun-22 A			21-Jan-21	22-Jan-21	0	64	\$5,842.78	B_T
S264300		Procure Production LL1 System - Provide Requirements to Procurement	11	100%	15-Mar-21 A	30-Mar-21 A			25-Jan-21	29-Jan-21	0	40	\$0.00	T
S264400		Procure Production LL1 System - Prepare & Send Solicitation	11	100%	15-Mar-21 A	30-Mar-21 A			01-Feb-21	15-Mar-21	0	0	\$0.00	
S264500		Procure Production LL1 System - Vendor Responses	11	100%	15-Mar-21 A	30-Mar-21 A			16-Mar-21	29-Mar-21	0	0	\$0.00	
S264600		Procure Production LL1 System - Vendor Selection	11	100%	15-Mar-21 A	30-Mar-21 A			30-Mar-21	31-Mar-21	0	0	\$0.00	
S264700		Procure Production LL1 System - Contract Award(s)	0	100%	31-Mar-21 A				11-May-21		0	0	\$0.00	A-TEC
S264800		Procure Production LL1 System - Contract/PO - Leadtime	310	100%	31-Mar-21 A	24-Jun-22 A			11-May-21	22-Jun-21	0	0	\$0.00	
S264900		Procure Production LL1 System - Delivery Acceptance	62	100%	01-Aug-22 A	28-Oct-22 A			23-Jun-21	29-Jun-21	117000	0	\$139,831.96	A-TEC
S265000		Trigger LL1 Production: Program and commission trigger boards	115	100%	16-May-22 A	28-Oct-22 A			30-Jun-21	11-Aug-21	0	60	\$0.00	T
S265100		Trigger LL1 Production: Assemble trigger system	82	100%	01-Jul-22 A	28-Oct-22 A			12-Aug-21	25-Aug-21	0	120	\$0.00	T
S265200		Trigger LL1 Production: Commission trigger systems	82	100%	01-Jul-22 A	28-Oct-22 A			26-Aug-21	16-Sep-21	0	120	\$0.00	T
S265300		LL1 Trigger Production Complete	0	100%		28-Oct-22 A				16-Sep-21	0	0	\$0.00	
S265400		LL1 Ready to Operate	0	100%		28-Oct-22 A				16-Sep-21	0	0	\$0.00	
POM02.01.06.03 Global Level 1 Trigger (GL1)			1116		13-Feb-18 A	29-Jul-22 A			13-Feb-18	28-Jul-21	60695	3505	\$414,645.10	
POM02.01.06.03.01 GL1 Trigger Design			86		13-Feb-18 A	15-Jun-18 A			13-Feb-18	15-Jun-18	0	0	\$0.00	
S265500	004	GL1 Design: Evaluate performance Requirements, Preliminary Design Review	53	100%	13-Feb-18 A	30-Apr-18 A			13-Feb-18	30-Apr-18	0	0	\$0.00	
S265501	004	Preliminary Design Review - DAQ Global Level-1	0	100%		30-Apr-18 A				30-Apr-18	0	0	\$0.00	
S265600		GL1 Design: Write design specifications	46	100%	11-Apr-18 A	15-Jun-18 A			11-Apr-18	15-Jun-18	0	0	\$0.00	
POM02.01.06.03.02 GL1 Trigger Prototype			917		01-May-18 A	31-Dec-21 A			01-May-18	14-May-20	0	1787	\$164,367.80	
S265700		GL1 Prototype: Select Hardware	21	100%	01-May-18 A	31-May-18 A			01-May-18	31-May-18	0	0	\$0.00	
S265800		GL1 Prototype: Procure hardware Labor	62	100%	02-Jul-18 A	28-Sep-18 A			02-Jul-18	28-Sep-18	0	0	\$0.00	
S265900		GL1 Prototype: Procure hardware M&S	62	100%	02-Jul-18 A	28-Sep-18 A			02-Jul-18	28-Sep-18	0	0	\$0.00	
S266000		GL1 Prototype: develop firmware FY18	62	100%	02-Jul-18 A	28-Sep-18 A			02-Jul-18	28-Sep-18	0	0	\$0.00	
S266100		GL1 Prototype: develop firmware FY19	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B
S266110		GL1 Prototype: develop firmware FY19 Split	148	100%	03-Jun-19 A	06-Jan-20 A			03-Jun-19	30-Aug-19	0	451	\$59,687.99	B
S266200		GL1 Prototype: Design I/O Transition Module FY18	62	100%	02-Jul-18 A	28-Sep-18 A			02-Jul-18	28-Sep-18	0	0	\$0.00	
S266300	005	GL1 Prototype: Design I/O Transition Module FY19	185	100%	03-Jun-19 A	28-Feb-20 A			03-Jun-19	22-Oct-19	0	64	\$7,091.08	B
S266400		GL1 Prototype: setup hardware FY18	31	100%	15-Aug-18 A	28-Sep-18 A			15-Aug-18	28-Sep-18	0	0	\$0.00	
S266500	003	GL1 Prototype: setup hardware FY19	115	100%	01-Oct-18 A	20-Mar-19 A			01-Oct-18	20-Mar-19	0	0	\$0.00	B_T

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S266600		GL1 Prototype: test prototype	407	100%	17-Dec-19 A	30-Jul-21 A			23-Oct-19	22-Jan-20	0	560	\$44,130.74	B_T
S266700	004	GL1 Prototype: evaluate performance, Final Design and Production Readines	224	100%	03-Nov-20 A	27-Sep-21 A			23-Jan-20	02-Apr-20	0	460	\$24,605.89	B_T
S266701	004	Final Design Review - DAQ Global Level-1	2	100%	28-Sep-21 A	30-Sep-21 A			23-Jan-20	23-Jan-20	0	24	\$3,214.70	B
S266702	004	Procurement Readiness Review - DAQ Global Level-1	1	100%	22-Nov-21 A	23-Nov-21 A			02-Apr-20	02-Apr-20	0	24	\$3,214.70	B
S266800		GL1 Prototype: Update design specifications; incorporate final design choice	26	100%	22-Nov-21 A	31-Dec-21 A			03-Apr-20	14-May-20	0	204	\$22,422.68	B_T
POM02.01.06.03.03 GL1 Trigger Production			332		02-Apr-21 A	29-Jul-22 A			15-May-20	28-Jul-21	60695	1718	\$250,277.31	
OBLG2674		Procure Production GL1 Components - Obligation	1	100%	25-Oct-21 A	26-Oct-21 A			18-Aug-20	18-Aug-20	32545	0	\$32,545.14	A-TEC
S266900		GL1 Production: final firmware updates	178	100%	13-Jul-21 A	31-Mar-22 A			15-May-20	22-Sep-20	0	534	\$65,469.69	B_T
S267000		Procure Production GL1 Components - Provide Requirements to Procurement	4	100%	02-Apr-21 A	08-Apr-21 A			15-May-20	21-May-20	0	72	\$6,381.68	B_T
S267100		Procure Production GL1 Components - Prepare & Send Solicitation	4	100%	09-Apr-21 A	15-Apr-21 A			22-May-20	06-Jul-20	0	0	\$0.00	
S267200		Procure Production GL1 Components - Vendor Responses	4	100%	16-Apr-21 A	22-Apr-21 A			07-Jul-20	20-Jul-20	0	0	\$0.00	
S267300		Procure Production GL1 Components - Vendor Selection	4	100%	23-Apr-21 A	29-Apr-21 A			21-Jul-20	17-Aug-20	0	0	\$0.00	
S267400		Procure Production GL1 Components - ContractAward(s)	0	100%	25-Jan-22 A				18-Aug-20		0	0	\$0.00	A-TEC
S267500		Procure Production GL1 Components - Contract/PO - Leadtime	45	100%	26-Jan-22 A	31-Mar-22 A			18-Aug-20	29-Sep-20	0	0	\$0.00	
S267600	015	Procure Production GL1 Components - final hardware - Delivery Acceptance	133	100%	15-Nov-21 A	27-May-22 A			31-Dec-20	07-Jan-21	28150	0	\$33,326.73	A-TEC
S267900		GL1 Production: install GL1 system	43	100%	27-May-22 A	29-Jul-22 A			08-Jan-21	22-Mar-21	0	560	\$49,480.22	B_T
S268000	003	GL1 Production: commission GL1 system	43	100%	27-May-22 A	29-Jul-22 A			23-Mar-21	01-Jun-21	0	288	\$27,641.37	B_T
S268010	003	GL1 Production: commission GL1 system Instr	43	100%	27-May-22 A	29-Jul-22 A			23-Mar-21	01-Jun-21	0	108	\$14,495.11	B
S268100		GL1 Production: additional firmware improvements	13	100%	01-Apr-22 A	20-Apr-22 A			02-Jun-21	28-Jul-21	0	156	\$20,937.38	B
S268200		GL1 Ready to Operate	0	100%		27-May-22 A				28-Jul-21	0	0	\$0.00	
POM02.01.06.04 Timing System			1116		13-Feb-18 A	29-Jul-22 A			13-Feb-18	05-Aug-21	88938	3647	\$505,825.39	
POM02.01.06.04.01 Timing system Design			75		13-Feb-18 A	31-May-18 A			13-Feb-18	31-May-18	0	0	\$0.00	
S268300	004	Evaluate performance Requirements, Preliminary Design Review	75	100%	13-Feb-18 A	31-May-18 A			13-Feb-18	31-May-18	0	0	\$0.00	
S268301	004	Preliminary Design Review - DAQ Timing System	0	100%		31-May-18 A				31-May-18	0	0	\$0.00	
S268400		Timing system Design: Write design specifications	50	100%	21-Mar-18 A	31-May-18 A			21-Mar-18	31-May-18	0	0	\$0.00	
POM02.01.06.04.02 Timing System Prototype			934		06-Apr-18 A	31-Dec-21 A			06-Apr-18	03-Feb-20	0	901	\$73,896.35	
S268500		Timing System Prototype: Select FPGA Board	11	100%	06-Apr-18 A	23-Apr-18 A			06-Apr-18	23-Apr-18	0	0	\$0.00	
S268600		Timing System Prototype: Procure hardware Labor	31	100%	02-Jul-18 A	15-Aug-18 A			02-Jul-18	15-Aug-18	0	0	\$0.00	
S268700		Timing System Prototype: Procure hardware M&S	31	100%	02-Jul-18 A	15-Aug-18 A			02-Jul-18	15-Aug-18	0	0	\$0.00	
S268800		Timing System Prototype: develop firmware FY18	110	100%	24-Apr-18 A	28-Sep-18 A			24-Apr-18	28-Sep-18	0	0	\$0.00	
S268900	003	Timing System Prototype: develop firmware FY19	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B_T
S268905	003	Timing System Prototype: develop firmware FY19 Split	144	100%	03-Jun-19 A	31-Dec-19 A			03-Jun-19	30-Aug-19	0	364	\$43,215.65	B_T
S268910	003,005	Timing System Prototype: develop firmware FY19	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	B
S268915	003,005	Timing System Prototype: develop firmware FY19 Split Instrum	144	100%	03-Jun-19 A	31-Dec-19 A			03-Jun-19	30-Aug-19	0	55	\$6,755.36	B
S269000		Timing System Prototype: Design I/O Transition Module FY18	58	100%	09-Jul-18 A	28-Sep-18 A			09-Jul-18	28-Sep-18	0	0	\$0.00	
S269100		Timing System Prototype: Design I/O Transition Module FY19	185	100%	03-Jun-19 A	28-Feb-20 A			03-Jun-19	26-Sep-19	0	76	\$8,420.66	B
S269200		Timing System Prototype: setup hardware FY18	30	100%	16-Aug-18 A	28-Sep-18 A			16-Aug-18	28-Sep-18	0	0	\$0.00	
S269300	003	Timing System Prototype: setup hardware FY19	44	100%	01-Oct-18 A	06-Dec-18 A			01-Oct-18	06-Dec-18	0	0	\$0.00	B
S269310	003	Timing System Prototype: setup hardware FY19	44	100%	01-Oct-18 A	06-Dec-18 A			01-Oct-18	06-Dec-18	0	0	\$0.00	B
S269400		Timing System Prototype: test prototype	48	100%	19-Dec-19 A	28-Feb-20 A			27-Sep-19	08-Nov-19	0	180	\$4,130.54	B_T
S269500	004	Timing System Prototype: evaluate performance, Final Design and Production	401	100%	24-Feb-20 A	27-Sep-21 A			12-Nov-19	10-Jan-20	0	136	\$2,753.69	B_T
S269501	004	Final Design Review - DAQ Timing System	2	100%	28-Sep-21 A	30-Sep-21 A			12-Nov-19	12-Nov-19	0	24	\$3,214.70	B
S269502	004	Procurement Readiness Review - DAQ Timing System	1	100%	22-Nov-21 A	23-Nov-21 A			10-Jan-20	10-Jan-20	0	24	\$3,214.70	B
S269600		Update design specifications; incorporate final design choice	31	100%	15-Nov-21 A	31-Dec-21 A			13-Jan-20	03-Feb-20	0	42	\$2,191.04	B_T
POM02.01.06.04.03 Timing System Production			346		15-Mar-21 A	29-Jul-22 A			04-Feb-20	05-Aug-21	88938	2746	\$431,929.04	

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OBLG2701	003	Timing System Production (FPGA Boards) - Obligation	1	100%	18-Oct-21 A	19-Oct-21 A			06-May-20	06-May-20	47338	0	\$47,337.71	A-TEC
S270500	003	Timing System Production: final firmware updates	262	100%	15-Mar-21 A	31-Mar-22 A			04-Feb-20	27-May-20	0	688	\$84,315.91	B_T
S270510	003	Timing System Production: final firmware updates IO	262	100%	15-Mar-21 A	31-Mar-22 A			04-Feb-20	27-May-20	0	322	\$41,958.15	B
S269700		Timing System Production (FPGA Boards) - Provide Requirements to Procure	4	100%	01-Apr-21 A	07-Apr-21 A			04-Feb-20	10-Feb-20	0	160	\$19,393.70	B_T
S269800		Timing System Production (FPGA Boards) - Prepare & Send Solicitation	4	100%	08-Apr-21 A	14-Apr-21 A			11-Feb-20	24-Mar-20	0	0	\$0.00	
S269900		Timing System Production (FPGA Boards) - Vendor Responses	4	100%	15-Apr-21 A	21-Apr-21 A			25-Mar-20	07-Apr-20	0	0	\$0.00	
S270000		Timing System Production (FPGA Boards) - Vendor Selection	4	100%	22-Apr-21 A	28-Apr-21 A			08-Apr-20	05-May-20	0	0	\$0.00	
S270100		Timing System Production (FPGA Boards) - Contract Award(s)	0	100%	25-Jan-22 A				06-May-20		0	0	\$0.00	A-TEC
S270200		Timing System Production (FPGA Boards) - Contract/PO - Leadtime	46	100%	25-Jan-22 A	31-Mar-22 A			06-May-20	16-Jul-20	0	0	\$0.00	
S270300	015	Timing System Production (FPGA Boards) - Delivery Acceptance	128	100%	15-Nov-21 A	20-May-22 A			11-Jan-21	15-Jan-21	41600	0	\$49,250.16	A-TEC
S270600	003	Timing System Production: install timing system	47	100%	23-May-22 A	29-Jul-22 A			19-Jan-21	30-Mar-21	0	440	\$56,783.69	B
S270610	003	Timing System Production: install timing system	47	100%	23-May-22 A	29-Jul-22 A			19-Jan-21	30-Mar-21	0	160	\$21,474.23	B
S270700	003	Timing System Production: commission timing system	53	100%	13-May-22 A	29-Jul-22 A			31-Mar-21	09-Jun-21	0	640	\$66,319.59	B_T
S270710	003	Timing System Production: commission timing system	53	100%	13-May-22 A	29-Jul-22 A			31-Mar-21	09-Jun-21	0	192	\$25,769.08	B
S270800		Timing System Production: additional firmware updates	13	100%	01-Apr-22 A	20-Apr-22 A			10-Jun-21	05-Aug-21	0	144	\$19,326.81	B_T
S270900		Timing System Production: Timing system ready to operate	0	100%		27-May-22 A				05-Aug-21	0	0	\$0.00	
POM02.01.07 Min Bias Trigger Detector			1448		01-Feb-17 A	14-Nov-22	14-Nov-22	103	01-Feb-17	28-Jul-21	222076	1640	\$481,615.87	
OBLG272410		Procure Prototype Shaper/Disc Electronics - Obligation	0	100%	28-Sep-18 A	28-Sep-18 A			28-Sep-18	28-Sep-18	0	0	\$0.00	A-OPC
OBLG273210		Procure Min/Bias Electronics (sPHENIX Production Digitizers) - Obligation	1	100%	08-Mar-21 A	08-Mar-21 A			07-Apr-20	07-Apr-20	17143	0	\$17,143.31	A-TEC
OBLG273310		Procure MBD Shaper/Disc Board 128 Channels - Obligation	1	100%	08-Mar-21 A	08-Mar-21 A			07-Apr-20	07-Apr-20	53879	0	\$53,878.97	A-TEC
S1000999	003	Actuals - Labor - sPHENIX MinBias Trigger FY19 M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	302	\$50,490.46	B
S1001039	003	Actuals - Nonlabor - sPHENIX MinBias Trigger FY19 M8	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	19492	0	\$21,505.33	A-OPC
S271000	003	Actuals - Labor - sPHENIX MinBias Trigger FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	205	\$34,217.28	B
S271100	003	Actuals - Labor - sPHENIX MinBias Trigger FY18	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	489	\$81,740.17	B
S271200	003	Actuals - Nonlabor - sPHENIX MinBias Trigger FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	A-OPC
S271300	003	Actuals - Nonlabor - sPHENIX MinBias Trigger FY18	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	371	0	\$413.67	A-OPC
S271400		MBD Detector validation using Laser Labor	188	100%	02-Mar-17 A	30-Nov-17 A			02-Mar-17	30-Nov-17	0	0	\$0.00	
S271500		MBD Detector validation using Laser M&S	188	100%	02-Mar-17 A	30-Nov-17 A			02-Mar-17	30-Nov-17	0	0	\$0.00	
S271600		MBD Detector validation in Magnetic Field Labor	7	100%	01-Dec-17 A	12-Dec-17 A			01-Dec-17	12-Dec-17	0	0	\$0.00	
S271700		MBD Detector validation in Magnetic Field M&S	7	100%	01-Dec-17 A	12-Dec-17 A			01-Dec-17	12-Dec-17	0	0	\$0.00	
S271800		Readout validation of sPHENIX Prototype Digitizers	189	100%	02-Mar-17 A	01-Dec-17 A			02-Mar-17	01-Dec-17	0	0	\$0.00	
S271900	004	Preliminary Design Review - MBD (Discriminator/Shaper board)	11	100%	04-Dec-17 A	19-Dec-17 A			04-Dec-17	19-Dec-17	0	0	\$0.00	
S271901	004	Develop Scope and Documentation for Shaper/Disc Boards, Preliminary Desi	0	100%		19-Dec-17 A				19-Dec-17	0	0	\$0.00	
S272000		Procure Prototype Shaper/Disc Electronics - Provide Requirements to Procure	54	100%	13-Feb-18 A	01-May-18 A			13-Feb-18	01-May-18	0	0	\$0.00	
S272100		Procure Prototype Shaper/Disc Electronics - Prepare & Send Solicitation	20	100%	02-May-18 A	31-May-18 A			02-May-18	31-May-18	0	0	\$0.00	
S272200		Procure Prototype Shaper/Disc Electronics - Vendor Responses	63	100%	15-Jun-18 A	14-Sep-18 A			15-Jun-18	14-Sep-18	0	0	\$0.00	
S272300		Procure Prototype Shaper/Disc Electronics - Vendor Selection	52	100%	16-Jul-18 A	27-Sep-18 A			16-Jul-18	27-Sep-18	0	0	\$0.00	
S272400		Procure Prototype Shaper/Disc Electronics - Contract Award(s)	0	100%	28-Sep-18 A				28-Sep-18		0	0	\$0.00	A-OPC
S272500		Procure Prototype Shaper/Disc Electronics - Contract/PO - Leadtime	186	100%	01-Oct-18 A	28-Jun-19 A			01-Oct-18	28-Jun-19	0	0	\$0.00	
S272600		Procure Prototype Shaper/Disc Electronics - Delivery Acceptance	24	100%	03-Jun-19 A	08-Jul-19 A			01-Jul-19	08-Jul-19	70000	0	\$77,228.55	A-OPC
S272700	003,004	Prototype Shaper/Disc Board Testing and evaluation, revisions; Final Design ;	407	100%	09-Jul-19 A	25-Feb-21 A			09-Jul-19	31-Dec-19	0	216	\$20,874.07	B_T
S272701	003,004	Final Design Review, Procurement Readiness Review - MBD (Discriminator/S	1	100%	25-Feb-21 A	26-Feb-21 A			02-Jan-20	02-Jan-20	0	28	\$3,308.93	B_T
S272800	003	Procure Min/Bias Electronics - Provide Requirements to Procurement	1	100%	25-Feb-21 A	26-Feb-21 A			03-Jan-20	09-Jan-20	0	112	\$19,854.11	B
S272900		Procure Min/Bias Electronics - Prepare & Send Solicitation	1	100%	25-Feb-21 A	26-Feb-21 A			10-Jan-20	24-Feb-20	0	0	\$0.00	
S273000		Procure Min/Bias Electronics - Vendor Responses	1	100%	25-Feb-21 A	26-Feb-21 A			25-Feb-20	09-Mar-20	0	0	\$0.00	

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S273100		Procure Min/Bias Electronics - Vendor Selection	1	100%	25-Feb-21 A	26-Feb-21 A			10-Mar-20	06-Apr-20	0	0	\$0.00	
S273200		Procure Min/Bias Electronics - sPHENIX Production Digitizers - Contract Award	0	100%	26-Feb-21 A				07-Apr-20		0	0	\$0.00	A-TEC
S273300		Procure Shaper/Disc Board 128 Channels - Contract Award(s)	0	100%	01-Apr-21 A				07-Apr-20		0	0	\$0.00	A-TEC
S273400		Procure Min/Bias Electronics - Contract/PO - Leadtime	252	100%	27-Aug-21 A	31-Aug-22 A			07-Apr-20	22-Oct-20	0	0	\$0.00	
S273500	015	Procure Min/Bias Electronics (sPHENIX Production Digitizers) - Delivery Acceptance	149	100%	23-Aug-21 A	31-Mar-22 A			16-Feb-21	22-Feb-21	14770	0	\$17,486.17	A-TEC
S273600	015	Procure MBD Shaper/Disc Board 128 Channels - Delivery Acceptance	52	100%	15-Aug-22 A	28-Oct-22 A			16-Feb-21	22-Feb-21	46420	0	\$54,956.54	A-TEC
S273700	003	Oversight of sPHENIX MBD Digitizers Procurement	149	100%	23-Aug-21 A	31-Mar-22 A			03-Jan-20	29-Oct-20	0	16	\$2,901.54	B
S273800	003	Test Full Min/Bias Electronics	61	25%	17-Aug-22 A	14-Nov-22	14-Nov-22	0	23-Feb-21	01-Jun-21	0	112	\$11,009.80	B_T
S273900		MBD Production Complete	0	100%		28-Oct-22 A				01-Jun-21	0	0	\$0.00	
S274000	003	Bench Test Min/Bias Detector	69	100%	21-Jul-22 A	28-Oct-22 A			02-Jun-21	28-Jul-21	0	160	\$14,606.95	B_T
S274100		MinBias Detector Ready to Install	0	100%		28-Oct-22 A				28-Jul-21	0	0	\$0.00	
POM02.02 Infrastructure/Facility			1551		01-Feb-17 A	17-Apr-23	09-Feb-23	0	01-Feb-17	14-Feb-23	17741851	123431	\$35,704,696.36	
POM02.02.01 Infrastructure/Facility Management			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	07-Oct-22	34484	21530	\$3,495,631.64	
POM02.02.01.01 Infrastructure/Facility Overview			571		06-Jan-20 A	18-Apr-22 A			06-Jan-20	04-Apr-22	0	0	\$0.00	
S274300		RHIC FY20 Run	176	100%	06-Jan-20 A	15-Sep-20 A			06-Jan-20	15-Jul-20	0	0	\$0.00	
S274310		RHIC FY21 Run	114	100%	01-Feb-21 A	14-Jul-21 A			04-Jan-21	13-May-21	0	0	\$0.00	
S274320	028	RHIC FY22 Run	84	100%	15-Dec-21 A	18-Apr-22 A			15-Nov-21	04-Apr-22	0	0	\$0.00	
POM02.02.01.02 Magnet Management and Technical Oversight			1418		01-Feb-17 A	30-Sep-22 A			01-Feb-17	30-Sep-22	25268	5801	\$1,049,993.15	
S1001199	003	Actuals - Labor - sPHENIX Magnet FY19 M8 16716	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	565	\$94,442.57	C
S1004320	003	Actuals - Labor FY19 Jun-Sep 16716	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	347	\$58,057.09	C
S274400		2018 Magnet Project Management	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	C
S274500		2019 Magnet Project Management	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S274510		2019 Magnet Project Management Split	63	100%	01-Jul-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S274600		2020 Magnet Project Management	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	880	\$151,453.00	C
S274700		2021 Magnet Project Management	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	30-Sep-21	0	880	\$155,996.59	C
S274800		2022 Magnet Project Management	249	100%	01-Oct-21 A	30-Sep-22 A			01-Oct-21	30-Sep-22	0	880	\$161,062.11	C
S274900		Cryogenics System Technical Review	32	100%	12-Jan-18 A	01-Mar-18 A			12-Jan-18	01-Mar-18	0	0	\$0.00	C
S275000		2018 Cryo L3 Project Management	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	C
S275100		2019 Cryo L3 Project Management	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S275110		2019 Cryo L3 Project Management Split	63	100%	01-Jul-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S275200		2020 Cryo L3 Project Management	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	352	\$67,933.51	C
S275300	025	2021 Cryo L3 Project Management	164	100%	01-Oct-20 A	31-May-21 A			01-Oct-20	30-Sep-21	0	235	\$46,713.94	C
S275400	025	2022 Cryo L3 Project Management	19	100%	01-Oct-21 A	29-Oct-21 A			01-Oct-21	30-Sep-22	0	0	\$0.00	C
S275500		2018 PS & Quench Protection L3 Project Management	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	C
S275600		2019 PS & Quench Protection L3 Project Management	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S275610		2019 PS & Quench Protection L3 Project Management Split	63	100%	01-Jul-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S275700		2020 PS & Quench Protection L3 Project Management	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	352	\$59,862.20	C
S275800		2021 PS & Quench Protection L3 Project Management	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	30-Sep-21	0	352	\$61,658.07	C
S275900		2022 PS & Quench Protection L3 Project Management	249	100%	01-Oct-21 A	30-Sep-22 A			01-Oct-21	30-Sep-22	0	352	\$63,507.81	C
S278400	003	Actuals - Labor - sPHENIX Magnet FY17 16716	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	117	\$19,541.51	C
S278500	003	Actuals - Labor - sPHENIX Magnet FY18 16716 and 16717	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	488	\$81,575.42	C
S278700	003	Actuals - Nonlabor - sPHENIX Magnet FY18 16716	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	25268	0	\$28,189.32	C
POM02.02.01.03 Carriage and Structural Component Management			667		01-Feb-17 A	30-Sep-19 A			01-Feb-17	30-Sep-19	0	493	\$82,353.74	
S1000559	003	Actuals - Labor - sPHENIX Infrastructure FY17 16725	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	134	\$22,417.18	C
S1000719	003	Actuals - Labor - sPHENIX Infrastructure FY18 16725	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	102	\$17,026.77	C

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S1001719	003	Actuals - Labor - sPHENIX Infrastructure FY19 M8 16725	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	120	\$19,969.27	C
S1004680	003	Actuals - Labor FY19 Jun-Sep 16725	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	137	\$22,940.52	C
POM02.02.01.04 Infrastructure Management			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	07-Oct-22	6516	9112	\$1,337,139.86	
S1001519	003	Actuals - Labor - sPHENIX Infrastructure FY19 M8 16721	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	354	\$59,221.06	C
S1004640	003	Actuals - Labor FY19 Jun-Sep 16721	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	8	\$1,351.45	C
S1004720	003	Actuals - NonLabor FY19 Jun-Sep 16721	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	03-Jun-19	6516	0	\$7,188.43	C
S276000		2018 Infrastructure Project Management	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	C
S276100		2019 Infrastructure Project Management	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S276110		2019 Infrastructure Project Management Split	63	100%	01-Jul-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S276200	010	2020 Infrastructure Project Management	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	1770	\$251,694.43	C
S276300	010	2021 Infrastructure Project Management	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	30-Sep-21	0	1750	\$256,639.17	C
S276400	010	2022 Infrastructure Project Management	249	100%	01-Oct-21 A	30-Sep-22 A			01-Oct-21	30-Sep-22	0	800	\$107,371.17	C
S276500	010	2023 Infrastructure Project Management	18	100%	01-Oct-22 A	28-Oct-22 A			03-Oct-22	07-Oct-22	0	40	\$5,529.62	C
S276600		2018 Facility Support Systems L3 Project Management	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	C
S276700		2019 Facility Support Systems L3 Project Management	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S276710		2019 Facility Support Systems L3 Project Management Split	63	100%	01-Jul-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S276800		2020 Facility Support Systems L3 Project Management	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	352	\$35,277.18	C
S276900		2021 Facility Support Systems L3 Project Management	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	30-Sep-21	0	352	\$36,427.06	C
S277000	025	2022 Facility Support Systems L3 Project Management	249	100%	01-Oct-21 A	30-Sep-22 A			01-Oct-21	30-Sep-22	0	352	\$37,515.39	C
S277100	025	2023 Facility Support Systems L3 Project Management	18	100%	03-Oct-22 A	28-Oct-22 A			03-Oct-22	07-Oct-22	0	113	\$12,374.89	C
S277200		2018 Detector Support Systems L3 Project Management	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	C
S277300		2019 Detector Support Systems L3 Project Management	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S277310		2019 Detector Support Systems L3 Project Management Split	63	100%	01-Jul-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S277400		2020 Detector Support Systems L3 Project Management	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	792	\$124,658.81	C
S277500		2021 Detector Support Systems L3 Project Management	249	100%	01-Oct-20 A	30-Sep-21 A			01-Oct-20	30-Sep-21	0	792	\$128,398.57	C
S309200	003	Actuals - Labor - sPHENIX Infrastructure FY17 16721	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	460	\$76,844.35	C
S309300	003	Actuals - Labor - sPHENIX Infrastructure FY18 16721	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	1177	\$196,648.28	C
POM02.02.01.05 Installation Management			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	07-Oct-22	2700	6124	\$1,026,144.90	
S1001079	003	Actuals - Labor - sPHENIX Integration and Installation FY19 M8 16726	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	172	\$28,728.28	C
S1004760	003	Actuals - Labor FY19 Jun-Sep 16726	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	52	\$8,727.93	C
S277800		2018 Integration & Installation Project Management	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	0	\$0.00	
S277900		2019 Integration & Installation Project Management	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S277910		2019 Integration & Installation Project Management Split	63	100%	01-Jul-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S278000		2020 Integration & Installation Project Management	250	100%	01-Oct-19 A	30-Sep-20 A			01-Oct-19	30-Sep-20	0	1760	\$281,046.20	C
S278100		2021 Integration & Installation Project Management	248	100%	02-Oct-20 A	30-Sep-21 A			01-Oct-20	30-Sep-21	0	1760	\$289,512.33	C
S278200		2022 Integration & Installation Project Management	249	100%	01-Oct-21 A	30-Sep-22 A			01-Oct-21	30-Sep-22	0	880	\$159,150.58	C
S278300		2023 Integration & Installation Project Management	18	100%	03-Oct-22 A	28-Oct-22 A			03-Oct-22	07-Oct-22	0	282	\$52,404.77	C
S343900	003	Actuals - Labor - sPHENIX Integration and Installation FY17 16726	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	511	\$85,432.93	C
S344000	003	Actuals - Labor - sPHENIX Integration and Installation FY18 16726	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	707	\$118,129.66	C
S344200	003	Actuals - Nonlabor - sPHENIX Integration and Installation FY18 16726 16727	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	2700	0	\$3,012.22	C
POM02.02.02 SC Magnet			1489		01-Feb-17 A	17-Jan-23	30-Dec-22	62	01-Feb-17	10-Nov-22	2555153	22198	\$6,011,875.57	
S278600	003	Actuals - Nonlabor - sPHENIX Magnet FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	C
POM02.02.02.01 Safety Reviews, Cooldown, Power Tests			414		08-Mar-21 A	28-Oct-22 A			08-Aug-22	16-Sep-22	0	836	\$142,813.12	
POM02.02.02.01.01 Safety Reviews			414		08-Mar-21 A	28-Oct-22 A			08-Aug-22	09-Aug-22	0	112	\$21,277.64	
S278800		LESHC-PSSC Review Cryogenic Safety Review	280	100%	08-Mar-21 A	19-Apr-22 A			08-Aug-22	08-Aug-22	0	40	\$7,447.20	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S278900		LESHC Review Magnet Overall System Safety Review	1	100%	15-Sep-22 A	15-Sep-22 A			08-Aug-22	08-Aug-22	0	40	\$7,447.20	C
S279000		ASSRC REVIEW and Full Walkthrough	29	100%	16-Sep-22 A	28-Oct-22 A			09-Aug-22	09-Aug-22	0	32	\$6,383.25	C
POM02.02.02.01.02 Cooldown & Power Tests			50		17-Aug-22 A	28-Oct-22 A			10-Aug-22	16-Sep-22	0	724	\$121,535.47	
S279100		Cooldown	50	100%	17-Aug-22 A	28-Oct-22 A			10-Aug-22	30-Aug-22	0	180	\$28,430.00	C
S279200		4.5K Static Heat Load test	18	100%	03-Oct-22 A	28-Oct-22 A			31-Aug-22	01-Sep-22	0	24	\$3,790.67	C
S279300		4.5K Low power test	18	100%	03-Oct-22 A	28-Oct-22 A			02-Sep-22	09-Sep-22	0	260	\$44,657.40	C
S279400		4.5K High Power Test	18	100%	03-Oct-22 A	28-Oct-22 A			12-Sep-22	16-Sep-22	0	260	\$44,657.40	C
S279500	032C	Magnet is operational	0	100%		28-Oct-22 A				16-Sep-22	0	0	\$0.00	
POM02.02.02.02 Magnet Transport & Assembly			1374		01-Feb-17 A	29-Jul-22 A			01-Feb-17	07-Mar-22	67790	843	\$175,825.87	
OBLG28041		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Obligation	1	100%	30-Jul-19 A	30-Jul-19 A			30-Jul-19	30-Jul-19	45517	0	\$45,517.03	C
S1000039	003	Actuals - Labor - sPHENIX Magnet FY17 16717	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	6	\$968.97	C
S1001239	003	Actuals - Labor - sPHENIX Magnet FY19 M8 16717	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	3	\$507.96	C
S1001279	003	Actuals - NonLabor - sPHENIX Magnet FY19 M8 16717	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	2857	0	\$3,152.34	C
S1004360	003	Actuals - Labor FY19 Jun-Sep 16717	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	42	\$7,093.43	C
S1004400	003	Actuals - NonLabor FY19 Jun-Sep 16717	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	19416	0	\$21,420.87	C
S279600		[Magnet] Preliminary Engineering Transport Tooling and Misc. Parts	30	100%	02-Jan-19 A	14-Feb-19 A			02-Jan-19	14-Feb-19	0	0	\$0.00	C
S279700		[Magnet] Preliminary Safety and Design Review	28	100%	01-Mar-19 A	10-Apr-19 A			01-Mar-19	10-Apr-19	0	0	\$0.00	C
S279800		[Magnet] Final Design (Magnet Transport)	10	100%	06-May-19 A	20-May-19 A			06-May-19	20-May-19	0	0	\$0.00	C
S279900		[Magnet] Final Design Review (Magnet Transport)	5	100%	03-Jun-19 A	07-Jun-19 A			03-Jun-19	07-Jun-19	0	0	\$0.00	C
S280000		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Provide rec	5	100%	10-Jun-19 A	14-Jun-19 A			10-Jun-19	14-Jun-19	0	0	\$0.00	C
S280100		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Prepare & :	10	100%	17-Jun-19 A	28-Jun-19 A			17-Jun-19	28-Jun-19	0	0	\$0.00	C
S280200		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Vendor Re:	10	100%	01-Jul-19 A	15-Jul-19 A			01-Jul-19	15-Jul-19	0	0	\$0.00	C
S280300		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Vendor Sel	10	100%	16-Jul-19 A	29-Jul-19 A			16-Jul-19	29-Jul-19	0	0	\$0.00	C
S280400		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Contract Av	0	100%	30-Jul-19 A				30-Jul-19		0	0	\$0.00	C
S280500		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Leadtime	1	100%	30-Jul-19 A	31-Jul-19 A			31-Jul-19	31-Jul-19	0	0	\$0.00	C
S280600		[Magnet] Procure Parts (for disassembly, transport & reassembly) - Delivery Ac	10	100%	17-Jul-19 A	31-Jul-19 A			25-Jul-19	31-Jul-19	0	0	\$0.00	C
S280700		[Magnet] Assemble and Prepare Parts (Magnet Transport) Labor	10	100%	01-Aug-19 A	14-Aug-19 A			01-Aug-19	14-Aug-19	0	0	\$0.00	C
S280800		[Magnet] Assemble and Prepare Parts (Magnet Transport) M&S	10	100%	01-Aug-19 A	14-Aug-19 A			01-Aug-19	14-Aug-19	0	0	\$0.00	C
S280900		Solenoid Valvebox - Start Disassembly	0	100%	15-Aug-19 A				15-Aug-19		0	0	\$0.00	C
S281000		Solenoid Valvebox - Disassemble Labor	11	100%	15-Aug-19 A	30-Aug-19 A			15-Aug-19	29-Aug-19	0	0	\$0.00	C
S281100		Solenoid Valvebox - Disassemble M&S	11	100%	15-Aug-19 A	30-Aug-19 A			15-Aug-19	29-Aug-19	0	0	\$0.00	C
S281200		Magnet - Prepare for Coil Shipment - Shipping Constraints and Tooling	60	100%	01-Oct-19 A	30-Dec-19 A			01-Oct-19	30-Dec-19	0	176	\$20,615.78	C
S281300		Magnet - Coil Ready to Ship	0	100%	07-Jan-20 A				09-Jan-20		0	0	\$0.00	
S281400	028	Magnet and Solenoid Valvebox - Reinstall	14	100%	01-Jul-22 A	22-Jul-22 A			14-Jan-22	18-Feb-22	0	440	\$54,678.21	C
S281410		Completed - Magnet and Solenoid Valvebox - Reinstall	0	100%		22-Jul-22 A				18-Feb-22	0	0	\$0.00	
S281500		Magnet - Readjust Coil and Remove Shipping Tooling	4	100%	25-Jul-22 A	29-Jul-22 A			22-Feb-22	07-Mar-22	0	176	\$21,871.28	C
S281600		Magnet - Solenoid Valvebox - Complete, Ready for Cryo Connections	0	100%		29-Jul-22 A				07-Mar-22	0	0	\$0.00	C
POM02.02.02.03 Magnet Cryogenic Systems			1407		01-Feb-17 A	14-Sep-22 A			01-Feb-17	05-Aug-22	2358696	13801	\$4,590,580.88	
S1000079	003	Actuals - Labor - sPHENIX Magnet FY17 16718	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	16	\$2,592.95	C
S1000159	003	Actuals - Labor - sPHENIX Magnet FY18 16718	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	822	\$137,266.81	C
S1001319	003	Actuals - Labor - sPHENIX Magnet FY19 M8 16718	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	1602	\$267,682.81	C
S1001359	003	Actuals - NonLabor - sPHENIX Magnet FY19 M8 16718	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	13286	0	\$14,657.49	C
S1004440	003	Actuals - Labor FY19 Jun-Sep 16718	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	272	\$45,398.14	C
S1004480	003	Actuals - NonLabor FY19 Jun-Sep 16718	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	17882	0	\$19,728.14	C
POM02.02.02.03.01 Helium System: 1008BColdbox, Transferlines, & IR8 Coldbox			1374		01-Feb-17 A	29-Jul-22 A			01-Feb-17	05-Aug-22	1565660	3193	\$2,180,254.20	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
POM02.02.02.03.01.01 Engineering and Design			598		01-Feb-17 A	21-Jun-19 A			01-Feb-17	03-Jun-19	0	0	\$0.00	
S281700		Cryo System - Process Design	389	100%	01-Feb-17 A	20-Aug-18 A			01-Feb-17	20-Aug-18	0	0	\$0.00	C
S281800		Cryo System - P&ID development & drawings	386	100%	01-Feb-17 A	15-Aug-18 A			01-Feb-17	15-Aug-18	0	0	\$0.00	C
S281900		Cryo System - ODH Analysis	9	100%	02-Jan-19 A	15-Jan-19 A			02-Jan-19	15-Jan-19	0	0	\$0.00	C
S282000		RHIC Helium Interface - Mechanical Engineering Design Tasks FY18	147	100%	02-Mar-18 A	28-Sep-18 A			02-Mar-18	28-Sep-18	0	0	\$0.00	C
S282100		RHIC Helium Interface - Mechanical Engineering Design Tasks FY19	93	100%	02-Jan-19 A	15-May-19 A			02-Jan-19	15-May-19	0	0	\$0.00	C
S282200		Cryo System - SOW & Technical Specifications	42	100%	22-Jan-19 A	22-Mar-19 A			22-Jan-19	22-Mar-19	0	0	\$0.00	C
S282300		Cryo System - Bid package Helium System	0	100%	21-Jun-19 A				03-Jun-19		0	0	\$0.00	C
S282400		Cryo System - Final Tech Design Review with Pressure Cryo Safety Subcomrn	1	100%	03-Jun-19 A	03-Jun-19 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
S282410		Completed: Cryo System - Final Tech Design Review with Pressure Cryo Safe	0	100%		03-Jun-19 A				03-Jun-19	0	0	\$0.00	C
POM02.02.02.03.01.02 Design/Drafting			285		02-Mar-18 A	22-Apr-19 A			02-Mar-18	22-Apr-19	0	0	\$0.00	
S282500		Helium Lines Routing from 1008B to IP8 hall and LN2 line routing from dewar	128	100%	02-Mar-18 A	31-Aug-18 A			02-Mar-18	31-Aug-18	0	0	\$0.00	C
S282600		RHIC interface valvebox and field joint layout at the interconnect where we tie	147	100%	02-Mar-18 A	28-Sep-18 A			02-Mar-18	28-Sep-18	0	0	\$0.00	C
S282700	003	RHIC interface valvebox and field joint layout at the interconnect where we tie	76	100%	02-Jan-19 A	22-Apr-19 A			02-Jan-19	22-Apr-19	0	0	\$0.00	C
S282800		Transfer line system from 1008B to IP8 hall, detail layout	75	100%	03-Jan-19 A	22-Apr-19 A			03-Jan-19	22-Apr-19	0	0	\$0.00	C
S282900		RHIC Helium Interface - Detailed drawing package for Procurement	46	100%	14-Feb-19 A	22-Apr-19 A			14-Feb-19	22-Apr-19	0	0	\$0.00	C
POM02.02.02.03.01.03 Procurement			185		04-Jun-19 A	02-Mar-20 A			03-Jun-19	25-Oct-19	0	0	\$0.00	
OBLG2833		Procure RHIC Helium Interface, Phase 1 (Detailed Drawing Package) - Obliga	1	100%	02-Mar-20 A	02-Mar-20 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
OBLG2834		Procure RHIC Helium Interface, Phase 2 (Long Lead Items) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
OBLG2835		Procure RHIC Helium Interface, Phase 3 (Final Design Review) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
OBLG2836		Procure RHIC Helium Interface, Phase 4 (Drawings Approvals) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
OBLG2837		Procure RHIC Helium Interface, Phase 5 (Raw Materials) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
OBLG2838		Procure RHIC Helium Interface, Phase 6 (BNL Holdpoint Witness) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
OBLG2839		Procure RHIC Helium Interface, Phase 7 (Shipping) - Obligation	1	100%	02-Mar-20 A	02-Mar-20 A			03-Jun-19	03-Jun-19	0	0	\$0.00	C
S282980		RHIC Helium Interface - Procurement Readiness Review	5	100%	04-Jun-19 A	10-Jun-19 A			04-Jun-19	10-Jun-19	0	0	\$0.00	C
S283000		Procure RHIC Helium Interface - Provide Requirements to Procurement - Phys	3	100%	24-Jul-19 A	29-Jul-19 A			24-Jul-19	30-Jul-19	0	0	\$0.00	C
S283010		Procure RHIC Helium Interface - Provide Requirements to Procurement - CA-I	3	100%	24-Jul-19 A	29-Jul-19 A			24-Jul-19	30-Jul-19	0	0	\$0.00	C
S283100		Procure RHIC Helium Interface - Prepare & Send Solicitation	1	100%	30-Jul-19 A	31-Jul-19 A			31-Jul-19	11-Sep-19	0	0	\$0.00	C
S283200		Procure RHIC Helium Interface - Vendor Responses & Selection	15	100%	01-Oct-19 A	23-Oct-19 A			12-Sep-19	24-Oct-19	0	0	\$0.00	C
S283300		Procure RHIC Helium Interface - Contract Award	0	100%	24-Oct-19 A				25-Oct-19		0	0	\$0.00	C
S283400		Procure RHIC Helium Interface, Phase 2 (Long Lead Items) - Contract Award	0	100%	24-Oct-19 A						0	0	\$0.00	C
S283500		Procure RHIC Helium Interface, Phase 3 (Final Design Review) - Contract Aw	0	100%	24-Oct-19 A						0	0	\$0.00	C
S283600		Procure RHIC Helium Interface, Phase 4 (Drawings Approvals) - Contract Awa	0	100%	24-Oct-19 A						0	0	\$0.00	C
S283700		Procure RHIC Helium Interface, Phase 5 (Raw Materials) - Contract Award	0	100%	24-Oct-19 A						0	0	\$0.00	C
S283800		Procure RHIC Helium Interface, Phase 6 (BNL Holdpoint Witness) - Contract A	0	100%	24-Oct-19 A						0	0	\$0.00	C
S283900		Procure RHIC Helium Interface, Phase 7 (Shipping) - Contract Award	0	100%	24-Oct-19 A						0	0	\$0.00	C
POM02.02.02.03.01.04 Vendor Manufacturing - Helium System: 1008B Coldbox, Transferlines, & IR8 Coldbox			691		23-Oct-19 A	29-Jul-22 A			25-Oct-19	18-Oct-21	1565660	501	\$1,838,791.34	
POM02.02.02.03.01.04.01 Group 1			381		20-Nov-19 A	31-May-21 A			12-Nov-19	29-Mar-21	579294	0	\$646,268.62	
POM02.02.02.03.01.04.01.01 5 Multiple Process Line Cryogenic Spools			216		20-Nov-19 A	30-Sep-20 A			12-Nov-19	02-Oct-20	117425	0	\$131,000.40	
S1005160		AET submits PDR report to BNL for approval of Multiple Transfer Line Spools	37	100%	20-Nov-19 A	15-Jan-20 A			12-Nov-19	11-Dec-19	0	0	\$0.00	C
S1005200		BNL review for PDR approval	29	100%	16-Jan-20 A	27-Feb-20 A			12-Dec-19	26-Dec-19	23485	0	\$26,200.08	C
S1005240		AET submits IDR to BNL for approval	29	100%	31-Jan-20 A	12-Mar-20 A			27-Dec-19	10-Jan-20	0	0	\$0.00	C
S1005260		BNL review for IDR approval	21	100%	13-Mar-20 A	10-Apr-20 A			13-Jan-20	17-Jan-20	23485	0	\$26,200.08	C
S1005280		AET submits FDR report to BNL for approval	20	100%	13-Apr-20 A	08-May-20 A			21-Jan-20	18-Feb-20	70455	0	\$78,600.24	C
S1005320		AET begins material procurement	5	100%	11-May-20 A	15-May-20 A			19-Feb-20	25-Feb-20	0	0	\$0.00	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S1005360		Fabricate Multiple Transfer Line Spool 4 & 5	56	100%	18-May-20 A	05-Aug-20 A			26-Feb-20	14-Apr-20	0	0	\$0.00	C
S1005400		Fabricate Multiple Transfer Line Spool 1, 2, 3, and Field Joint Sleeve	35	100%	31-Jul-20 A	18-Sep-20 A			15-Apr-20	03-Jun-20	0	0	\$0.00	C
S1005440		Delivery Multiple Transfer Line Spool 4 & 5 with Document Package	42	100%	31-Jul-20 A	30-Sep-20 A			15-Apr-20	21-Apr-20	0	0	\$0.00	C
S1005480		Delivery Multiple Transfer Line Spool 1, 2, 3, and Field Joint Sleeve with Docu	28	100%	20-Aug-20 A	30-Sep-20 A			28-Sep-20	02-Oct-20	0	0	\$0.00	C
POM02.02.02.03.01.04.01.02 3 Interconnect Spools, Vaccum Break, Field Joint Tee and Sleeve			176		02-Mar-20 A	06-Nov-20 A			27-Jan-20	23-Oct-20	227021	0	\$253,267.43	
S1005520	008C	AET submits PDR to BNL for approval of S,H,U Interconnect, vac. break, Field	61	100%	02-Mar-20 A	26-May-20 A			27-Jan-20	24-Feb-20	0	0	\$0.00	C
S1005560		BNL review for PDR approval	5	100%	27-May-20 A	02-Jun-20 A			25-Feb-20	02-Mar-20	31313	0	\$34,933.44	C
S1005600		AET submits IDR to BNL for approval	27	100%	03-Jun-20 A	10-Jul-20 A			03-Mar-20	09-Mar-20	0	0	\$0.00	C
S1005620		BNL review for IDR approval	23	100%	10-Jun-20 A	13-Jul-20 A			10-Mar-20	16-Mar-20	31313	0	\$34,933.44	C
S1005640		AET submits FDR report to BNL for approval	28	100%	17-Jun-20 A	27-Jul-20 A			17-Mar-20	30-Mar-20	70455	0	\$78,600.24	C
S1005680		AET begins material procurement	45	100%	28-Jul-20 A	30-Sep-20 A			31-Mar-20	26-May-20	0	0	\$0.00	C
S1005720		Fabricate Interconnect (S-Line, H-Line, U-Line), vacuum break, Field Joint Tee	25	100%	22-Sep-20 A	28-Oct-20 A			18-Sep-20	16-Oct-20	0	0	\$0.00	C
S1005760		Delivery Interconnect (S-Line, H-Line, U-Line), vacuum break, Field Joint Tee	5	100%	02-Nov-20 A	06-Nov-20 A			19-Oct-20	23-Oct-20	93940	0	\$104,800.31	C
POM02.02.02.03.01.04.01.03 Service Building 1008B Cold Box			314		02-Mar-20 A	31-May-21 A			27-Jan-20	29-Mar-21	234849	0	\$262,000.79	
S1005800		Draft PDR report of 1008B Cold Box Assembly. (Preliminary Layout)	150	100%	02-Mar-20 A	01-Oct-20 A			27-Jan-20	24-Feb-20	0	0	\$0.00	C
S1005840	008C	AET submits PDR report to BNL for approval of 1008B Cold Box Assembly	6	100%	22-Sep-20 A	30-Sep-20 A			30-Mar-20	08-May-20	0	0	\$0.00	C
S1005880	012	BNL review for PDR approval	10	100%	01-Oct-20 A	15-Oct-20 A			01-Oct-20	15-Oct-20	23485	0	\$26,200.08	C
S1005920		AET to procure long lead items	5	100%	16-Oct-20 A	22-Oct-20 A			16-Oct-20	22-Oct-20	0	0	\$0.00	C
S1005960		AET submits IDR to BNL for approval	10	100%	01-Dec-20 A	14-Dec-20 A			23-Oct-20	05-Nov-20	0	0	\$0.00	C
S1006000		BNL review for IDR approval	10	100%	15-Dec-20 A	29-Dec-20 A			06-Nov-20	20-Nov-20	23485	0	\$26,200.08	C
S1006040		AET submits FDR report to BNL for approval	16	100%	04-Jan-21 A	27-Jan-21 A			23-Nov-20	22-Dec-20	93940	0	\$104,800.31	C
S1006080		AET begins material procurement	27	100%	19-Jan-21 A	26-Feb-21 A			23-Dec-20	30-Dec-20	0	0	\$0.00	C
S1006120		Fabricate the 1008B Cold Box	92	100%	19-Jan-21 A	28-May-21 A			31-Dec-20	15-Mar-21	0	0	\$0.00	C
S1006160		Witness test 1008B Cold Box Assembly	5	100%	21-Apr-21 A	27-Apr-21 A			16-Mar-21	22-Mar-21	0	0	\$0.00	C
S1006200		Delivery of the 1008B Cold Box and Document Package	23	100%	28-Apr-21 A	31-May-21 A			23-Mar-21	29-Mar-21	93940	0	\$104,800.31	C
POM02.02.02.03.01.04.02 Group 2			389		11-Jan-21 A	29-Jul-22 A			09-Nov-20	18-Oct-21	751517	0	\$852,300.84	
POM02.02.02.03.01.04.02.01 IP8 Cold Box			354		11-Jan-21 A	08-Jun-22 A			11-Jan-21	02-Sep-21	187879	0	\$209,600.63	
S1006240	012	AET submits PDR report to BNL for approval of IP8 Cold Box Assembly	199	100%	11-Jan-21 A	25-Oct-21 A			11-Jan-21	16-Mar-21	0	0	\$0.00	C
S1006280		BNL review for PDR approval	52	100%	10-Aug-21 A	25-Oct-21 A			17-Mar-21	30-Mar-21	31313	0	\$34,933.44	C
S1006320		AET to procure long lead items	25	100%	01-Nov-21 A	08-Dec-21 A			31-Mar-21	06-Apr-21	0	0	\$0.00	C
S1006360		AET submits IDR to BNL for approval	10	100%	01-Nov-21 A	15-Nov-21 A			31-Mar-21	13-Apr-21	0	0	\$0.00	C
S1006400		BNL review for IDR approval	5	100%	16-Nov-21 A	22-Nov-21 A			14-Apr-21	20-Apr-21	31313	0	\$34,933.44	C
S1006440		AET submits FDR report to BNL for approval	5	100%	01-Dec-21 A	07-Dec-21 A			21-Apr-21	18-May-21	125253	0	\$139,733.75	C
S1006480		AET begins material procurement	15	100%	09-Dec-21 A	03-Jan-22 A			19-May-21	25-May-21	0	0	\$0.00	C
S1006520		Fabricate the IP8 Cold Box Assembly	115	100%	16-Dec-21 A	01-Jun-22 A			26-May-21	19-Aug-21	0	0	\$0.00	C
S1006560		Witness test IP8 Cold Box Assembly	12	100%	11-Apr-22 A	27-Apr-22 A			20-Aug-21	26-Aug-21	0	0	\$0.00	C
S1006600		Delivery of the IP8 Cold Box Assembly and Document Package	5	100%	02-Jun-22 A	08-Jun-22 A			27-Aug-21	02-Sep-21	0	0	\$0.00	C
POM02.02.02.03.01.04.02.02 Three Manifold Jumper Transfer Lines			133		20-Jan-22 A	29-Jul-22 A			09-Nov-20	17-Aug-21	140909	0	\$157,200.48	
S1006640	012	Draft PDR of three Manifold Jumper Transfer Lines	26	100%	20-Jan-22 A	28-Feb-22 A			09-Nov-20	23-Nov-20	0	0	\$0.00	C
S1006660	012	AET submits PDR report to BNL for approval of three Manifold Jumper Transfe	23	100%	28-Feb-22 A	31-Mar-22 A			17-May-21	28-May-21	0	0	\$0.00	C
S1006680		BNL review for PDR approval	8	100%	21-Mar-22 A	31-Mar-22 A			01-Jun-21	07-Jun-21	23485	0	\$26,200.08	C
S1006720		AET submits IDR to BNL for approval	26	100%	21-Mar-22 A	26-Apr-22 A			08-Jun-21	14-Jun-21	0	0	\$0.00	C
S1006760		BNL review for IDR approval	21	100%	18-Apr-22 A	16-May-22 A			15-Jun-21	21-Jun-21	23485	0	\$26,200.08	C
S1006800		AET submits FDR report to BNL for approval	31	100%	18-Apr-22 A	31-May-22 A			22-Jun-21	06-Jul-21	93940	0	\$104,800.31	C
S1006840		AET begins material procurement	33	100%	18-Apr-22 A	02-Jun-22 A			07-Jul-21	13-Jul-21	0	0	\$0.00	C

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S1006880		Fabricate all three Manifold Jumper Transfer Lines	20	100%	03-Jun-22 A	30-Jun-22 A			14-Jul-21	10-Aug-21	0	0	\$0.00	C
S1006920	012	Delivery of all three Manifold Jumper Transfer Lines and Document package	19	100%	01-Jul-22 A	29-Jul-22 A			11-Aug-21	17-Aug-21	0	0	\$0.00	C
POM02.02.02.03.01.04.02.03 Three Solenoid Valve Box Transfer Lines			175		16-Nov-21 A	29-Jul-22 A			01-Jul-21	18-Oct-21	422728	0	\$485,499.73	
S1006940		Draft PDR of three Solenoid Valve Box Transfer Lines	68	100%	16-Nov-21 A	28-Feb-22 A			01-Jul-21	15-Jul-21	0	0	\$0.00	C
S1006960		AET submits PDR report to BNL for approval of three Solenoid Valve Box Trar	51	100%	18-Jan-22 A	31-Mar-22 A			16-Jul-21	29-Jul-21	0	0	\$0.00	C
S1007000		BNL review for PDR approval	8	100%	21-Mar-22 A	31-Mar-22 A			30-Jul-21	05-Aug-21	23485	0	\$26,200.08	C
S1007040		AET submits IDR to BNL for approval	31	100%	21-Mar-22 A	02-May-22 A			06-Aug-21	12-Aug-21	0	0	\$0.00	C
S1007080		BNL review for IDR approval	20	100%	19-Apr-22 A	16-May-22 A			13-Aug-21	19-Aug-21	23485	0	\$26,200.08	C
S1007120		AET submits FDR report to BNL for approval	22	100%	28-Apr-22 A	27-May-22 A			20-Aug-21	26-Aug-21	93940	0	\$104,800.31	C
S1007160		AET begins material procurement	28	100%	25-Apr-22 A	02-Jun-22 A			27-Aug-21	02-Sep-21	0	0	\$0.00	C
S1007200		Fabricate three Solenoid Valve Box Transfer Lines and two 4" & 5" NPS Field	20	100%	03-Jun-22 A	30-Jun-22 A			03-Sep-21	01-Oct-21	0	0	\$0.00	C
S1007240		Delivery of all three Solenoid Valve Box Transfer Lines and two 4" & 5" NPS F	19	100%	01-Jul-22 A	29-Jul-22 A			04-Oct-21	08-Oct-21	203536	0	\$240,965.68	C
S1007280		Approval of all Data/Documentation/ Reports	19	100%	01-Jul-22 A	29-Jul-22 A			12-Oct-21	18-Oct-21	78283	0	\$87,333.57	C
POM02.02.02.03.01.04.03 Group 3			81		03-Aug-20 A	30-Nov-20 A			02-Apr-20	08-Apr-20	78283	0	\$89,080.27	
S1007320		Delivery two male bayonets and one vapor return female bayonet	81	100%	03-Aug-20 A	30-Nov-20 A			02-Apr-20	08-Apr-20	78283	0	\$89,080.27	C
POM02.02.02.03.01.04.04 Vendor Engineering and Design			691		23-Oct-19 A	29-Jul-22 A			25-Oct-19	18-Oct-21	156566	501	\$251,141.61	
S284000		RHIC Helium Interface - Kick off meeting elapsed after contract award	3	100%	23-Oct-19 A	28-Oct-19 A			25-Oct-19	31-Oct-19	0	0	\$0.00	C
S284100		RHIC Helium Interface - Engineering supervision by BNL	666	100%	02-Dec-19 A	29-Jul-22 A			01-Nov-19	12-Apr-21	0	501	\$76,474.42	C
S284200		Procure RHIC Helium Interface, MS1 (Manufacturing Program Plan) - Leadtim	5	100%	18-Nov-19 A	25-Nov-19 A			25-Oct-19	25-Oct-19	0	0	\$0.00	C
S284220		Procure RHIC Helium Interface, MS1 (Manufacturing Program Plan) - Delivery	5	100%	18-Nov-19 A	25-Nov-19 A			28-Oct-19	08-Nov-19	156566	0	\$174,667.19	C
S285300	008C	Milestone - RHIC Helium Interface Contract Complete	0	100%		29-Jul-22 A				18-Oct-21	0	0	\$0.00	C
POM02.02.02.03.01.06 Installation			273		22-Sep-20 A	26-Oct-21 A			16-Jul-20	05-Aug-22	0	2692	\$341,462.86	
S286800	008C	Helium System 1008B Coldbox INSTALLATION: Rigging	41	100%	01-Jul-21 A	30-Aug-21 A			30-Mar-21	05-Apr-21	0	88	\$11,700.21	C
S286900		Helium System 1008B Coldbox INSTALLATION: Field Joint Welding and leak	38	100%	31-Aug-21 A	26-Oct-21 A			14-May-21	25-Jun-21	0	628	\$79,588.63	C
S287000		Helium System: Transfer lines BETWEEN 1008B and IR8 Hall INSTALLATIC	36	100%	22-Sep-20 A	12-Nov-20 A			05-Oct-20	17-Nov-20	0	208	\$25,453.81	C
S287100		Helium System: Transfer lines BETWEEN 1008B and IR8 Hall INSTALLATIC	52	100%	13-Oct-20 A	29-Dec-20 A			18-Nov-20	04-Jan-21	0	600	\$72,842.27	C
S287110		Completed - Helium System: Transfer lines BETWEEN 1008B and IR8 Hall I	0	100%		29-Dec-20 A				04-Jan-21	0	0	\$0.00	C
S287200		Helium System Transfer lines : Along West wall of IR8 Hall INSTALLATION: R	68	100%	22-Sep-20 A	31-Dec-20 A			16-Jul-20	26-Aug-20	0	108	\$13,022.57	C
S287300		Helium System Transfer lines : Along West wall of IR8 Hall INSTALLATION: fi	37	100%	04-Nov-20 A	31-Dec-20 A			27-Aug-20	08-Oct-20	0	568	\$69,730.70	C
S287400	028	(Helium System: 1008B Coldbox/Transfer lines / IR8 Coldbox) Installation/Rig	15	100%	04-Oct-21 A	26-Oct-21 A			14-Jan-22	11-Feb-22	0	64	\$8,910.41	C
S287410		Completed - (Helium System: 1008B Coldbox/Transferlines / IR8 Coldbox) Ins	0	100%		26-Oct-21 A				11-Feb-22	0	0	\$0.00	C
S287500	028	RHIC Helium Interface - Final Bayonet jumpers lines install, pressure & leak c	15	100%	04-Oct-21 A	26-Oct-21 A			25-Jul-22	29-Jul-22	0	280	\$41,645.47	C
S287600	032C	RHIC Helium Interface - Final pump and purge	15	100%	04-Oct-21 A	26-Oct-21 A			01-Aug-22	05-Aug-22	0	148	\$18,568.78	C
S287700		RHIC Helium Interface - Installation complete	0	100%		26-Oct-21 A				05-Aug-22	0	0	\$0.00	C
POM02.02.02.03.02 LN2 Supply Transfer Line System			1332		01-Feb-17 A	27-May-22 A			01-Feb-17	08-Nov-21	494835	1440	\$744,950.23	
POM02.02.02.03.02.01 Engineering and Design, LN2 Supply Transfer Line System			918		01-Feb-17 A	30-Sep-20 A			01-Feb-17	03-Apr-20	0	152	\$24,282.19	
S287800		(LN2 supply transfer line system) Cryo Process Design	389	100%	01-Feb-17 A	20-Aug-18 A			01-Feb-17	20-Aug-18	0	0	\$0.00	C
S287900		(LN2 supply transfer line system) P&ID development & drawings	402	100%	01-Feb-17 A	07-Sep-18 A			01-Feb-17	07-Sep-18	0	0	\$0.00	C
S288000		(LN2 supply transfer line system) Mechanical Engineering Tasks FY18	147	100%	02-Mar-18 A	28-Sep-18 A			02-Mar-18	28-Sep-18	0	0	\$0.00	C
S288100	003	(LN2 supply transfer line system) Mechanical Engineering Tasks FY19	146	100%	01-Oct-19 A	01-May-20 A			01-Oct-19	23-Dec-19	0	80	\$12,780.10	C
S288200		(LN2 supply transfer line system) SOW & Technical Specifications	110	100%	22-Nov-19 A	01-May-20 A			12-Nov-19	22-Nov-19	0	72	\$11,502.09	C
S288300		(LN2 supply transfer line system) Bid package LN2 System Completed	0	100%		30-Sep-20 A				03-Apr-20	0	0	\$0.00	C
POM02.02.02.03.02.02 Design/Drafting, LN2 Supply Transfer Line System			383		02-Jan-19 A	10-Jul-20 A			02-Jan-19	03-Apr-20	0	202	\$29,876.35	
S288400	003	(LN2 supply transfer line system) LN2 supply transfer line detail layout	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S288410	003	(LN2 supply transfer line system) LN2 supply transfer line detail layout Split	46	100%	01-Oct-19 A	09-Dec-19 A			01-Oct-19	09-Dec-19	0	34	\$5,431.54	C

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S288500		(LN2 supply transfer line system) Detailed dwg package for Procurement	148	100%	10-Dec-19 A	10-Jul-20 A			10-Dec-19	03-Apr-20	0	168	\$24,444.80	C
POM02.02.02.03.02.03 Procurement, LN2 Supply Transfer Line System			145		04-May-20 A	01-Dec-20 A			06-Apr-20	30-Jun-20	252574	136	\$275,629.88	
OBLG2889		Procure LN2 supply transfer line system, Phase 1 (Preliminary Design Review)	1	100%	01-Dec-20 A	01-Dec-20 A			30-Jun-20	30-Jun-20	25034	0	\$25,034.37	C
OBLG2890		Procure LN2 supply transfer line system, Phase 2 (Long lead items) - Obligation	1	100%	01-Dec-20 A	01-Dec-20 A			30-Jun-20	30-Jun-20	56896	0	\$56,896.29	C
OBLG2891		Procure LN2 supply transfer line system, Phase 3 (Final Design Review) - Obligation	1	100%	01-Dec-20 A	01-Dec-20 A			30-Jun-20	30-Jun-20	56896	0	\$56,896.29	C
OBLG2892		Procure LN2 supply transfer line system, Phase 4 (Raw Material) - Obligation	1	100%	01-Dec-20 A	01-Dec-20 A			30-Jun-20	30-Jun-20	58034	0	\$58,034.23	C
OBLG2893	004	Procure LN2 supply transfer line system - Obligation - Phase 5 - Shipping	1	100%	01-Dec-20 A	01-Dec-20 A			30-Jun-20	30-Jun-20	55713	0	\$55,712.86	C
S288600		Procure LN2 supply transfer line system - Provide requirements to Procurement	51	100%	04-May-20 A	15-Jul-20 A			06-Apr-20	15-May-20	0	136	\$23,055.84	C
S288700		Procure LN2 supply transfer line system - Prepare & Send Solicitation	15	100%	03-Aug-20 A	21-Aug-20 A			18-May-20	08-Jun-20	0	0	\$0.00	C
S288800		Procure LN2 supply transfer line system - Vendor Responses & Selection	55	100%	24-Aug-20 A	10-Nov-20 A			09-Jun-20	29-Jun-20	0	0	\$0.00	C
S288900		Procure LN2 supply transfer line system, Phase 1 (Preliminary Design Review)	0	100%	02-Nov-20 A				30-Jun-20		0	0	\$0.00	C
S289000		Procure LN2 supply transfer line system, Phase 2 (Long lead items) - Contract	0	100%	02-Nov-20 A				30-Jun-20		0	0	\$0.00	C
S289100		Procure LN2 supply transfer line system, Phase 3 (Final Design Review) - Contract	0	100%	02-Nov-20 A				30-Jun-20		0	0	\$0.00	C
S289200		Procure LN2 supply transfer line system, Phase 4 (Raw Material) - Contract Award	0	100%	02-Nov-20 A				30-Jun-20		0	0	\$0.00	C
S289300		Procure LN2 supply transfer line system - Contract Award - Phase 5 - Shipping	0	100%	02-Nov-20 A				30-Jun-20		0	0	\$0.00	C
POM02.02.02.03.02.04 Fabrication at Vendor, LN2 Supply Transfer Line System			353		01-Dec-20 A	29-Apr-22 A			30-Jun-20	08-Nov-21	229261	272	\$315,334.21	
POM02.02.02.03.02.04.01 Vendor Engineering and Design			353		01-Dec-20 A	29-Apr-22 A			30-Jun-20	17-Feb-21	122000	132	\$167,842.80	
S289400		(LN2 supply transfer line system) Kick off meeting	1	100%	01-Dec-20 A	01-Dec-20 A			30-Jun-20	30-Jun-20	0	8	\$1,590.26	C
S289500		Engineering Support for Procure LN2 supply transfer line system	352	100%	02-Dec-20 A	29-Apr-22 A			01-Jul-20	02-Sep-20	0	36	\$7,156.18	C
S289600		(LN2 supply transfer line system) Preliminary Design Review Labor	37	100%	02-Dec-20 A	27-Jan-21 A			01-Jul-20	03-Sep-20	0	8	\$1,590.26	C
S289700	016	Procure LN2 supply transfer line system, Phase 1 (Preliminary Design Review)	37	100%	02-Dec-20 A	27-Jan-21 A			01-Jul-20	06-Nov-20	0	0	\$0.00	C
S289800		Procure LN2 supply transfer line system, Phase 1 (Preliminary Design Review)	9	100%	13-Jan-21 A	27-Jan-21 A			09-Nov-20	09-Nov-20	22000	0	\$25,535.05	C
S289810		Completed - Procure LN2 supply transfer line system, Phase 1 (Preliminary Design Review)	0	100%		27-Jan-21 A				09-Nov-20	0	0	\$0.00	C
S289900		(LN2 supply transfer line system) Detail dwg package	72	100%	18-Jan-21 A	30-Apr-21 A			10-Nov-20	09-Feb-21	0	48	\$9,541.57	C
S290000		Long lead items Support Labor for LN2 supply transfer line system	41	100%	01-Feb-21 A	31-Mar-21 A			10-Nov-20	28-Dec-20	0	24	\$4,770.79	C
S290100		Procure LN2 supply transfer line system, Phase 2 (Long lead items) - Leadtime	42	100%	01-Feb-21 A	01-Apr-21 A			10-Nov-20	24-Dec-20	0	0	\$0.00	C
S290200		Procure LN2 supply transfer line system, Phase 2 (Long lead items) - Delivery	10	100%	16-Mar-21 A	30-Mar-21 A			28-Dec-20	28-Dec-20	50000	0	\$58,034.22	C
S290210		Completed - Procure LN2 supply transfer line system, Phase 2 (Long lead items)	0	100%		30-Mar-21 A				28-Dec-20	0	0	\$0.00	C
S290300		(LN2 supply transfer line system) Final Design Review Labor	40	100%	01-Feb-21 A	30-Mar-21 A			10-Nov-20	12-Nov-20	0	8	\$1,590.26	C
S290400		Procure LN2 supply transfer line system, Phase 3 (Final Design Review) - Leadtime	40	100%	01-Feb-21 A	30-Mar-21 A			10-Nov-20	10-Nov-20	0	0	\$0.00	C
S290500		Procure LN2 supply transfer line system, Phase 3 (Final Design Review) - Delivery	62	100%	02-Feb-21 A	30-Apr-21 A			12-Nov-20	12-Nov-20	50000	0	\$58,034.22	C
S290510		Completed - Procure LN2 supply transfer line system, Phase 3 (Final Design Review)	0	100%		30-Apr-21 A				12-Nov-20	0	0	\$0.00	C
S290600	018	(LN2 supply transfer line system) Drawings approvals	4	100%	26-Apr-21 A	30-Apr-21 A			10-Feb-21	17-Feb-21	0	0	\$0.00	C
POM02.02.02.03.02.04.02 Vendor Fabrication			239		15-Apr-21 A	31-Mar-22 A			18-Feb-21	08-Nov-21	107261	140	\$147,491.40	
S1008520	018	(LN2 supply transfer line system) LOE Supervision Labor	50	100%	15-Apr-21 A	25-Jun-21 A			15-Apr-21	16-Jul-21	0	140	\$27,829.58	C
S290700	018	(LN2 supply transfer line system) Raw Material procurement Labor	46	100%	21-Apr-21 A	25-Jun-21 A			18-Feb-21	21-Apr-21	0	0	\$0.00	C
S290800		Procure LN2 supply transfer line system, Phase 4 (Raw Material) - Leadtime	46	100%	21-Apr-21 A	25-Jun-21 A			18-Feb-21	21-Apr-21	0	0	\$0.00	C
S290900	018	Procure LN2 supply transfer line system, Phase 4 (Raw Material) - Delivery	46	100%	21-Apr-21 A	25-Jun-21 A			22-Apr-21	28-Apr-21	0	0	\$0.00	C
S290910		Completed - Procure LN2 supply transfer line system, Phase 4 (Raw Material)	0	100%		25-Jun-21 A				28-Apr-21	0	0	\$0.00	C
S291000	018	(LN2 supply transfer line system) Main fabrication items	46	100%	21-Apr-21 A	25-Jun-21 A			29-Apr-21	03-Sep-21	0	0	\$0.00	C
S291100	018	(LN2 supply transfer line system) Final assemblies	156	100%	12-Jul-21 A	28-Feb-22 A			07-Sep-21	19-Oct-21	0	0	\$0.00	C
S291200	018	(LN2 supply transfer line system) BNL Holdpoint witness	77	100%	12-Jul-21 A	29-Oct-21 A			20-Oct-21	20-Oct-21	0	0	\$0.00	C
S291210		Completed - (LN2 supply transfer line system) BNL Holdpoint witness	0	100%		29-Oct-21 A				20-Oct-21	0	0	\$0.00	C
S291300	018	(LN2 supply transfer line system) Shipping Labor	56	100%	13-Jul-21 A	30-Sep-21 A			21-Oct-21	08-Nov-21	0	0	\$0.00	C
S291400		Procure LN2 supply transfer line system - Phase 5 - Shipping - Leadtime	178	100%	13-Jul-21 A	31-Mar-22 A			21-Oct-21	03-Nov-21	0	0	\$0.00	C

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S291500	018	Procure LN2 supply transfer line system - Phase 5 - Shipping - Delivery Accep	178	100%	13-Jul-21 A	31-Mar-22 A			16-Jul-21	16-Jul-21	107261	0	\$119,661.82	C
S291510		Completed - Procure LN2 supply transfer line system - Phase 5 - Shipping - D	0	100%		31-Mar-22 A				16-Jul-21	0	0	\$0.00	C
POM02.02.02.03.02.05 Delivery and receiving, LN2 Supply Transfer Line System			178		13-Jul-21 A	31-Mar-22 A			16-Jul-21	19-Jul-21	0	22	\$2,998.83	
S291600		(LN2 supply transfer line system) Rigging/Truck Unloading	178	100%	13-Jul-21 A	31-Mar-22 A			16-Jul-21	16-Jul-21	0	21	\$2,794.08	C
S291700		(LN2 supply transfer line system) Inspection	178	100%	13-Jul-21 A	31-Mar-22 A			19-Jul-21	19-Jul-21	0	1	\$204.75	C
POM02.02.02.03.02.06 Installation, LN2 Supply Transfer Line System			302		17-Mar-21 A	27-May-22 A			10-Dec-19	07-Sep-21	13000	656	\$96,828.79	
S291800	003	(LN2 supply transfer line system) Piping supports procure materials M&S	2	100%	17-Mar-21 A	19-Mar-21 A			10-Dec-19	31-Dec-19	13000	0	\$15,088.90	C
S291900		(LN2 supply transfer line system) Piping supports procure materials Labor	2	100%	17-Mar-21 A	19-Mar-21 A			06-Apr-20	24-Apr-20	0	12	\$1,563.66	C
S292000		(LN2 supply transfer line system) Install piping supports (Outside pipe run)	236	100%	17-May-21 A	27-Apr-22 A			27-Apr-20	22-May-20	0	88	\$10,956.46	C
S292100		(LN2 supply transfer line system) Rigging in place onto piping supports	194	100%	20-Jul-21 A	29-Apr-22 A			20-Jul-21	02-Aug-21	0	272	\$33,327.76	C
S292110		Completed - (LN2 supply transfer line system) Rigging in place onto piping su	0	100%		28-Apr-22 A				02-Aug-21	0	0	\$0.00	C
S292120	018	Welding LN2 Segment #1 to LN2 Dewar	22	100%	27-Apr-22 A	27-May-22 A			03-Aug-21	16-Aug-21	0	80	\$10,615.05	C
S292200		(LN2 supply transfer line system) Install Instrumentation, reliefs and air supply	208	100%	21-Jul-21 A	20-May-22 A			03-Aug-21	23-Aug-21	0	120	\$14,844.06	C
S292300		(LN2 supply transfer line system) Final pressure. leak check and equipment sf	9	100%	16-May-22 A	27-May-22 A			24-Aug-21	07-Sep-21	0	84	\$10,432.90	C
S292310		Completed - (LN2 supply transfer line system) Final pressure. leak check and	0	100%		27-May-22 A				07-Sep-21	0	0	\$0.00	C
POM02.02.02.03.03 Warm Piping System			1131		02-Mar-18 A	06-Sep-22 A			02-Mar-18	05-Aug-22	101414	2391	\$457,537.53	
POM02.02.02.03.03.01 Engineering and Design, Warm Piping System			1020		02-Mar-18 A	31-Mar-22 A			02-Mar-18	13-Feb-20	0	75	\$12,812.38	
S292400		(Warm Piping System) Cryo Process Design	10	100%	02-Jan-19 A	16-Jan-19 A			02-Jan-19	16-Jan-19	0	0	\$0.00	C
S292500		(Warm Piping System) P&ID development & drawings	132	100%	02-Mar-18 A	07-Sep-18 A			02-Mar-18	07-Sep-18	0	0	\$0.00	C
S292600		(Warm Piping System) Mechanical Engineering Tasks	74	100%	14-Feb-19 A	31-May-19 A			14-Feb-19	31-May-19	0	0	\$0.00	C
S292602		(Warm Piping System) Mechanical Engineering Tasks Split	582	100%	02-Dec-19 A	31-Mar-22 A			18-Nov-19	09-Dec-19	0	57	\$9,737.41	C
S292610		Completed - (Warm Piping System) Mechanical Engineering Tasks	0	100%		31-Mar-22 A				09-Dec-19	0	0	\$0.00	C
S292700		(Warm Piping System) Technical Specifications	225	100%	01-May-20 A	29-Mar-21 A			03-Feb-20	13-Feb-20	0	18	\$3,074.97	C
POM02.02.02.03.03.02 Design/Drafting, Warm Piping System			617		14-Feb-19 A	30-Jul-21 A			14-Feb-19	15-May-20	0	574	\$104,142.04	
POM02.02.02.03.03.02.01 Warm Piping tie in to WR header			243		03-Aug-20 A	22-Jul-21 A			06-Apr-20	15-May-20	0	132	\$23,235.03	
S292800		(Warm Piping tie in to WR header) General Arrangement Layout	241	100%	03-Aug-20 A	20-Jul-21 A			06-Apr-20	17-Apr-20	0	100	\$17,969.63	C
S292900		(Warm Piping tie in to WR header) Detailed drawing package with weld map	170	100%	17-Nov-20 A	22-Jul-21 A			20-Apr-20	15-May-20	0	32	\$5,265.40	C
S292910		Completed - (Warm Piping tie in to WR header) Detailed drawing package with	0	100%		30-Apr-21 A				15-May-20	0	0	\$0.00	C
POM02.02.02.03.03.02.02 Warm Piping tie in Bldg 1010B Compressor			162		03-Aug-20 A	30-Mar-21 A			10-Feb-20	27-Feb-20	0	192	\$35,451.08	
S293000		(Warm Piping tie in bldg. 1010B compressor) General Arrangement Layout	162	100%	03-Aug-20 A	30-Mar-21 A			10-Feb-20	20-Feb-20	0	96	\$17,463.59	C
S293100		(Warm Piping tie in bldg. 1010B compressor) Detailed drawing package with v	30	100%	16-Feb-21 A	30-Mar-21 A			21-Feb-20	27-Feb-20	0	96	\$17,987.49	C
POM02.02.02.03.03.02.03 GN2 Vent Line from Platform Coldbox			356		14-Feb-19 A	15-Jul-20 A			14-Feb-19	13-Dec-19	0	96	\$17,463.59	
S293200		(GN2 Vent Line from platform coldbox) General Arrangement Layout	74	100%	14-Feb-19 A	31-May-19 A			14-Feb-19	31-May-19	0	0	\$0.00	C
S293202		(GN2 Vent Line from platform coldbox) General Arrangement Layout Split	20	100%	03-Jun-19 A	28-Jun-19 A			03-Jun-19	28-Jun-19	0	0	\$0.00	C
S293300		(GN2 Vent Line from platform coldbox) Detailed drawing package with weld m	152	100%	09-Dec-19 A	15-Jul-20 A			09-Dec-19	13-Dec-19	0	96	\$17,463.59	C
POM02.02.02.03.03.02.04 Warm Piping for Summer 80K Hold Helium Compressor Loop			607		01-Mar-19 A	30-Jul-21 A			01-Mar-19	20-Dec-19	0	154	\$27,992.34	
S293400		(Current Leads Warm Piping) General Arrangement Layout	52	100%	01-Mar-19 A	14-May-19 A			01-Mar-19	14-May-19	0	0	\$0.00	C
S293500		(Current Leads Warm Piping) Detailed drawing package with weld map	408	100%	16-Dec-19 A	30-Jul-21 A			16-Dec-19	20-Dec-19	0	154	\$27,992.34	C
POM02.02.02.03.03.03 Procurement of Materials, Warm Piping System			146		31-Dec-20 A	30-Jul-21 A			24-Feb-20	24-Feb-21	101414	228	\$151,119.77	
OBLG294		Procure Warm Piping and fittings - Obligation	1	100%	02-Jun-21 A	03-Jun-21 A			24-Sep-20	24-Sep-20	36414	0	\$36,413.63	C
S293600		(Warm Piping System Materials Procurement) Reliefs M&S	83	100%	31-Dec-20 A	30-Apr-21 A			24-Feb-20	29-Jun-20	8000	0	\$9,285.47	C
S293700		(Warm Piping System Materials Procurement) Reliefs Labor	83	100%	31-Dec-20 A	30-Apr-21 A			24-Feb-20	29-Jun-20	0	144	\$23,694.30	C
S293800		(Warm Piping System Materials Procurement) Warm Valves M&S	83	100%	31-Dec-20 A	30-Apr-21 A			24-Feb-20	29-Jun-20	15000	0	\$17,410.26	C
S293900		(Warm Piping System Materials Procurement) Warm Valves	83	100%	31-Dec-20 A	30-Apr-21 A			24-Feb-20	29-Jun-20	0	36	\$7,156.18	C
S294000		Procure Warm Piping and fittings - Provide Requirements to Procurement	17	100%	01-Feb-21 A	25-Feb-21 A			18-May-20	29-Jun-20	0	24	\$3,640.39	C

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S294100		Procure Warm Piping and fittings - Prepare and Send Solicitation	17	100%	01-Feb-21 A	25-Feb-21 A			30-Jun-20	11-Aug-20	0	0	\$0.00	C
S294200		Procure Warm Piping and fittings - Vendor Response and Selection	17	100%	01-Feb-21 A	25-Feb-21 A			12-Aug-20	23-Sep-20	0	0	\$0.00	C
S294300		Procure Warm Piping and fittings - Contract award	0	100%	01-Feb-21 A				24-Sep-20		0	0	\$0.00	C
S294400	016	Procure Warm Piping and fittings - Leadtime	17	100%	01-Feb-21 A	25-Feb-21 A			25-Sep-20	23-Feb-21	0	0	\$0.00	C
S294500		Procure Warm Piping and fittings - Delivery acceptance	33	100%	14-Jun-21 A	30-Jul-21 A			24-Feb-21	24-Feb-21	32000	0	\$37,141.90	C
S294510		Completed - Procure Warm Piping and fittings - Delivery acceptance	0	100%		30-Jul-21 A				24-Feb-21	0	0	\$0.00	C
S294600		(Warm Piping System Materials Procurement) Piping supports M&S	59	100%	08-Mar-21 A	28-May-21 A			18-May-20	29-Jun-20	10000	0	\$11,606.84	C
S294700		(Warm Piping System Materials Procurement) Piping supports Labor	59	100%	08-Mar-21 A	28-May-21 A			18-May-20	29-Jun-20	0	24	\$4,770.79	C
POM02.02.02.03.03.04 Installation: Warm Piping Systems			291		09-Jul-21 A	06-Sep-22 A			25-Feb-21	05-Aug-22	0	1514	\$189,463.34	
S294800		(Warm Piping System) Phase 1: Welding of piping and install of piping suppor	67	100%	26-Jul-21 A	29-Oct-21 A			25-Feb-21	01-Jul-21	0	744	\$94,083.30	C
S294810		Completed - (Warm Piping System) Phase 1: Welding of piping and install of p	0	100%		29-Oct-21 A				01-Jul-21	0	0	\$0.00	C
S294840		(Warm Piping System) Phase 2: Welding of piping, vent lines and install of pip	78	100%	09-Jul-21 A	29-Oct-21 A			14-May-21	25-Jun-21	0	256	\$31,002.16	C
S294860		(Warm Piping System) Assembly hall work on Platform	10	100%	29-Jul-22 A	12-Aug-22 A			14-Jan-22	04-Feb-22	0	128	\$15,966.11	C
S294880		(Warm Piping System) IR Hall work Jumper work between Platform and West \	18	100%	19-Jul-22 A	12-Aug-22 A			25-Jul-22	29-Jul-22	0	128	\$15,966.11	C
S294910		Completed - (Warm Piping System) Phase 2: Welding of piping, vent lines & ir	0	100%		15-Aug-22 A				29-Jul-22	0	0	\$0.00	C
S295000		(Warm Piping System) Pressure and leak check	15	100%	25-Jul-22 A	15-Aug-22 A			25-Jul-22	29-Jul-22	0	64	\$8,169.16	C
S295100		(Warm Piping System) Install Instrumentation, reliefs and air supply to valves	10	100%	12-Aug-22 A	26-Aug-22 A			07-Feb-22	18-Feb-22	0	84	\$10,432.90	C
S295200		(Warm Piping System) Final pressure. leak check and equipment shakedown	3	100%	01-Sep-22 A	06-Sep-22 A			01-Aug-22	05-Aug-22	0	64	\$8,169.16	C
S295300		(Warm Piping System) Vacuum Pumping System installation	20	100%	29-Jul-22 A	26-Aug-22 A			07-Feb-22	11-Feb-22	0	46	\$5,674.45	C
S295310		Completed - (Warm Piping System) Vacuum Pumping System installation	0	100%		29-Aug-22 A				11-Feb-22	0	0	\$0.00	C
POM02.02.02.03.04 Cryo Controls Hardware			782		24-Jul-19 A	07-Sep-22 A			24-Jul-19	18-Apr-22	165620	2010	\$445,816.66	
POM02.02.02.03.04.01 Engineering and Design			587		24-Jul-19 A	30-Nov-21 A			24-Jul-19	20-Jul-20	0	432	\$54,358.55	
S295400		(Controls Hardware) Cryo instrument and equipment specifications 30%	47	100%	24-Jul-19 A	30-Sep-19 A			24-Jul-19	30-Sep-19	0	0	\$0.00	C
S295401		(Controls Hardware) Cryo instrument and equipment specifications 70%	500	100%	01-Oct-19 A	30-Sep-21 A			01-Oct-19	26-May-20	0	168	\$22,997.06	C
S295500		(Controls Hardware) Wire diagram drawings	154	100%	19-Apr-21 A	30-Nov-21 A			27-May-20	18-Jun-20	0	128	\$15,045.86	C
S295600		(Controls Hardware) Power distribution drawings	198	100%	15-Feb-21 A	30-Nov-21 A			19-Jun-20	20-Jul-20	0	40	\$4,765.31	C
S295610		Completed - (Controls Hardware) Power distribution drawings	0	100%		26-Nov-21 A				20-Jul-20	0	0	\$0.00	C
S295700		(Controls Hardware) I/O list table	307	100%	07-Aug-20 A	29-Oct-21 A			27-May-20	17-Jul-20	0	96	\$11,550.32	C
POM02.02.02.03.04.02 Procurement			457		01-Apr-20 A	31-Jan-22 A			20-Jul-20	17-Feb-21	165620	199	\$217,245.41	
S295800		(Cryo Controls Hardware procurement) PLC I/O cards & expansion chassis La	21	100%	01-Apr-20 A	30-Apr-20 A			20-Jul-20	14-Aug-20	0	15	\$1,897.64	C
S295900		(Cryo Controls Hardware procurement) PLC I/O cards & expansion chassis M	21	100%	01-Apr-20 A	30-Apr-20 A			20-Jul-20	14-Aug-20	7500	0	\$8,534.44	C
S295910		Completed - (Cryo Controls Hardware procurement) PLC I/O cards & expansi	0	100%		30-Apr-20 A				14-Aug-20	0	0	\$0.00	C
S296000		(Cryo Controls Hardware procurement) Rack components Labor	21	100%	01-Apr-20 A	30-Apr-20 A			20-Jul-20	14-Aug-20	0	4	\$506.04	C
S296100		(Cryo Controls Hardware procurement) Rack components M&S	21	100%	01-Apr-20 A	30-Apr-20 A			20-Jul-20	14-Aug-20	6000	0	\$6,827.55	C
S296200		(Cryo Controls Hardware procurement) Lakeshore Temperature Controller/con	18	100%	07-Jul-20 A	31-Jul-20 A			20-Jul-20	14-Aug-20	0	12	\$1,518.11	C
S296300		(Cryo Controls Hardware procurement) Lakeshore Temperature Controller/con	18	100%	07-Jul-20 A	31-Jul-20 A			20-Jul-20	14-Aug-20	5000	0	\$5,689.63	C
S296400		(Cryo Controls Hardware procurement) Lakeshore Temperature sensors Labor	16	100%	01-Feb-21 A	24-Feb-21 A			20-Jul-20	14-Aug-20	0	12	\$1,563.66	C
S296500		(Cryo Controls Hardware procurement) Lakeshore Temperature sensors M&S	16	100%	01-Feb-21 A	24-Feb-21 A			20-Jul-20	14-Aug-20	22000	0	\$25,535.05	C
S296600		(Cryo Controls Hardware procurement) SC level probes Labor	329	100%	01-Oct-20 A	31-Jan-22 A			20-Jul-20	14-Aug-20	0	12	\$1,563.66	C
S296700		(Cryo Controls Hardware procurement) SC level probes M&S	329	100%	01-Oct-20 A	31-Jan-22 A			20-Jul-20	14-Aug-20	3000	0	\$3,482.05	C
S296800		(Cryo Controls Hardware procurement) Pressure transmitters Labor	1	100%	12-Jun-20 A	15-Jun-20 A			20-Jul-20	14-Aug-20	0	12	\$1,518.11	C
S296900		(Cryo Controls Hardware procurement) Pressure transmitters M&S	1	100%	12-Jun-20 A	15-Jun-20 A			20-Jul-20	14-Aug-20	6400	0	\$7,282.73	C
S297000		(Cryo Controls Hardware procurement) Flowmeters Labor	41	100%	01-Dec-20 A	29-Jan-21 A			20-Jul-20	14-Aug-20	0	12	\$1,563.66	C
S297100		(Cryo Controls Hardware procurement) Flowmeters M&S	41	100%	01-Dec-20 A	29-Jan-21 A			20-Jul-20	14-Aug-20	4600	0	\$5,339.15	C
S297200		(Cryo Controls Hardware procurement) Vacuum gages and cables Labor	19	100%	04-Jan-21 A	29-Jan-21 A			20-Jul-20	14-Aug-20	0	12	\$1,563.66	C

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S297300		(Cryo Controls Hardware procurement) Vacuum gages and cables M&S	19	100%	04-Jan-21 A	29-Jan-21 A			20-Jul-20	14-Aug-20	6000	0	\$6,964.11	C
S297400		(Cryo Controls Hardware procurement) 32 conductor cables, IP8 to 1008B rac	3	100%	02-Jun-20 A	05-Jun-20 A			03-Aug-20	21-Aug-20	16000	0	\$18,206.81	C
S297500		(Cryo Controls Hardware procurement) 32 conductor cables, IP8 to 1008B rac	3	100%	02-Jun-20 A	05-Jun-20 A			03-Aug-20	21-Aug-20	0	12	\$1,518.11	C
S297600		(Cryo Controls Hardware procurement) 8 conductor cables, IP8 to 1008B rack:	6	100%	22-Sep-20 A	30-Sep-20 A			03-Aug-20	21-Aug-20	0	12	\$1,563.66	C
S297700		(Cryo Controls Hardware procurement) 8 conductor cables, IP8 to 1008B rack:	6	100%	22-Sep-20 A	30-Sep-20 A			03-Aug-20	21-Aug-20	6200	0	\$7,196.24	C
S297800		(Cryo Controls Hardware procurement) Heaters 480VAC Labor	29	100%	22-Mar-21 A	30-Apr-21 A			14-Oct-20	17-Feb-21	0	14	\$1,879.00	C
S297900		(Cryo Controls Hardware procurement) Heaters 480VAC M&S	29	100%	22-Mar-21 A	30-Apr-21 A			14-Oct-20	17-Feb-21	17000	0	\$20,126.27	C
S298000		(Cryo Controls Hardware procurement) Heater UL listed Control Panel Labor	3	100%	15-Jun-20 A	18-Jun-20 A			14-Oct-20	03-Nov-20	0	14	\$1,824.27	C
S298100		(Cryo Controls Hardware procurement) Heater UL listed Control Panel M&S	3	100%	15-Jun-20 A	18-Jun-20 A			14-Oct-20	03-Nov-20	18000	0	\$20,892.32	C
S298200		(Cryo Controls Hardware procurement) Switch, 480 VAC Labor	9	100%	19-Jul-21 A	30-Jul-21 A			20-Jul-20	14-Aug-20	0	5	\$651.52	C
S298300		(Cryo Controls Hardware procurement) Switch, 480 VAC M&S	9	100%	19-Jul-21 A	30-Jul-21 A			20-Jul-20	14-Aug-20	1220	0	\$1,416.03	C
S298400		(Cryo Controls Hardware procurement) Network switch and Ethernet fiber drop	15	100%	03-May-21 A	24-May-21 A			20-Jul-20	14-Aug-20	0	5	\$651.52	C
S298500		(Cryo Controls Hardware procurement) Network switch and Ethernet fiber drop	15	100%	03-May-21 A	24-May-21 A			20-Jul-20	14-Aug-20	3500	0	\$4,062.40	C
S298600		(Cryo Controls Hardware procurement) Cable tray and supports Labor	105	100%	22-Sep-20 A	26-Feb-21 A			20-Jul-20	14-Aug-20	0	46	\$5,994.02	C
S298700		(Cryo Controls Hardware procurement) Cable tray and supports M&S	105	100%	22-Sep-20 A	26-Feb-21 A			20-Jul-20	14-Aug-20	4000	0	\$4,642.74	C
S298800		(Cryo Controls Hardware Procurement) 32 conductor cable LN2	9	100%	20-Jul-20 A	31-Jul-20 A			20-Jul-20	14-Aug-20	6500	0	\$7,396.52	C
S298900		(Cryo Controls Hardware Procurement) Plastic general 32 conductor connectc	20	100%	01-Oct-20 A	30-Oct-20 A			20-Jul-20	14-Aug-20	300	0	\$348.21	C
S299000		(Cryo Controls Hardware Procurement) Acopian 24V power Supply	17	100%	03-Aug-20 A	25-Aug-20 A			03-Aug-20	25-Aug-20	2000	0	\$2,275.85	C
S299100		(Cryo Controls Hardware Procurement) +/- 15 volt Power Supply	17	100%	01-Oct-20 A	26-Oct-20 A			03-Aug-20	25-Aug-20	500	0	\$580.34	C
S299200		(Cryo Controls Hardware Procurement) 72 inch enclosure	17	100%	03-Aug-20 A	25-Aug-20 A			03-Aug-20	25-Aug-20	1500	0	\$1,706.89	C
S299300		(Cryo Controls Hardware Procurement) LN2 Conduit/couplings	17	100%	01-Feb-21 A	24-Feb-21 A			03-Aug-20	25-Aug-20	3400	0	\$3,946.33	C
S299400		(Cryo Controls Hardware Procurement) Turbo pump and Controller	40	100%	01-Dec-20 A	28-Jan-21 A			03-Aug-20	28-Aug-20	25000	0	\$29,017.11	C
POM02.02.02.03.04.03 Installation: Cryo Controls Hardware			782		24-Jul-19 A	07-Sep-22 A			24-Jul-19	18-Apr-22	0	1379	\$174,212.70	
S299500		(Cryo Controls Hardware) Rack available from 912	0	100%		24-Jul-19 A				24-Jul-19	0	0	\$0.00	C
S299600		(Cryo Controls Hardware) Rack built/rebuilt	236	100%	19-Jul-21 A	27-Jun-22 A			17-Aug-20	14-Sep-20	0	328	\$39,167.46	C
S299700		(Cryo Controls Hardware) Rack install	87	100%	19-Jul-21 A	22-Nov-21 A			15-Sep-20	21-Sep-20	0	17	\$2,073.91	C
S299800		(Cryo Controls Hardware) Cable pulling	258	100%	19-Jul-21 A	29-Jul-22 A			22-Sep-20	04-Dec-20	0	202	\$26,198.98	C
S299810		Completed - (Cryo Controls Hardware) Cable pulling	0	100%		29-Jul-22 A				04-Dec-20	0	0	\$0.00	
S299900		(Cryo Controls Hardware) Cable termination	269	100%	20-Jul-21 A	16-Aug-22 A			14-Feb-22	14-Mar-22	0	160	\$19,371.55	C
S300000		(Cryo Controls Hardware) Check out continuity	8	100%	26-Aug-22 A	07-Sep-22 A			05-Apr-22	18-Apr-22	0	40	\$4,842.89	C
S300100		(Cryo Controls Hardware) Heater Control Panel Install	32	100%	15-Jun-21 A	30-Jul-21 A			18-Feb-21	04-Mar-21	0	32	\$4,246.02	C
S300200		(Cryo Controls Hardware) Heater 480VAC wiring	207	100%	18-Oct-21 A	16-Aug-22 A			14-Feb-22	18-Feb-22	0	480	\$63,690.31	C
S300300		(Cryo Controls Hardware) Insulating vacuum roughing pumps 480VAC Breake	293	100%	15-Jun-21 A	16-Aug-22 A			14-Feb-22	18-Feb-22	0	8	\$1,061.51	C
S300400		(Cryo Controls Hardware) Heater I/O wiring, temp sensors	15	100%	01-Jul-22 A	25-Jul-22 A			15-Mar-22	21-Mar-22	0	16	\$1,937.15	C
S300500		(Cryo Controls Hardware) Wire up instruments and control valves	35	100%	04-Jul-22 A	23-Aug-22 A			15-Mar-22	04-Apr-22	0	96	\$11,622.93	C
S300600		(Cryo Controls Hardware) Hardware Installed	0	100%		30-Aug-22 A				18-Apr-22	0	0	\$0.00	C
POM02.02.02.03.05 Cryo Controls Software			545		13-Jul-20 A	14-Sep-22 A			06-Apr-20	02-May-22	0	2056	\$274,695.92	
S300700		(Cryo Controls Hardware) Control Logic eng document revision by Cryo proce	41	100%	03-Aug-20 A	30-Sep-20 A			06-Apr-20	29-Jun-20	0	480	\$66,297.24	C
S300800		(Cryo Controls Hardware) Interface document definition for variables to MCR a	508	100%	03-Aug-20 A	15-Aug-22 A			06-Apr-20	17-Apr-20	0	16	\$2,190.20	C
S300900		(Cryo Controls Hardware) Built HMI operator screens	286	100%	08-Mar-21 A	27-Apr-22 A			14-May-21	21-Sep-21	0	648	\$85,976.75	C
S300910		Completed - (Cryo Controls Hardware) Built HMI operator screens	0	100%		28-Apr-22 A				21-Sep-21	0	0	\$0.00	
S301000		(Cryo Controls Hardware) PLC programming	448	100%	13-Jul-20 A	28-Apr-22 A			22-Sep-21	03-Feb-22	0	648	\$84,816.28	C
S301100		(Cryo Controls Hardware) Live I/O check out and control logic test	21	100%	16-Aug-22 A	14-Sep-22 A			19-Apr-22	02-May-22	0	264	\$35,415.46	C
POM02.02.02.04 Magnet Power Supplies/Controls/Quench Protection			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	12-Aug-22	50449	4203	\$628,046.09	
S1000119	003	Actuals - Labor - sPHENIX Magnet FY17 16719	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	89	\$14,920.26	C

POM02 sPHENIX WBS 1.x, 2.x October 2022				Glenn's Layout				Page 59 of 87 pages				07-Nov-22 15:54		
Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S1000199	003	Actuals - Labor - sPHENIX Magnet FY18 16719	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	41	\$6,767.26	C
S1001399	003	Actuals - Labor - sPHENIX Magnet FY19 M8 16719	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	69	\$11,594.58	C
S1004520	003	Actuals - Labor FY19 Jun-Sep 16719	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	109	\$18,241.53	C
S1004560	003	Actuals - NonLabor FY19 Jun-Sep 16719	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	512	0	\$564.90	C
POM02.02.02.04.01 AC/DC Power Distribution			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	28-Jan-22	37000	2497	\$374,418.59	
POM02.02.02.04.01.01 Design AC/DC Power Distribution			1227		01-Feb-17 A	29-Dec-21 A			01-Feb-17	20-Apr-20	0	141	\$21,277.51	
S301200		Magnet: Design Power Supply AC and Quench Detector Power Distribution	9	100%	01-Feb-17 A	14-Feb-17 A			01-Feb-17	14-Feb-17	0	0	\$0.00	C
S301300		Magnet: Design Power Supply AC Power Hook-up	2	100%	15-Feb-17 A	17-Feb-17 A			15-Feb-17	17-Feb-17	0	0	\$0.00	C
S301400		Magnet: Design Quench Detector AC Power Hook-up	1	100%	15-Feb-17 A	16-Feb-17 A			15-Feb-17	16-Feb-17	0	0	\$0.00	C
S301500		Magnet: Design Power Supply, Magnet, Dump Resistor DC Cabling	4	100%	01-Feb-17 A	07-Feb-17 A			01-Feb-17	07-Feb-17	0	0	\$0.00	C
S301600		Magnet: 1008 IR Design Power Supply AC and Quench Detector Power Distri	38	100%	08-Apr-19 A	31-May-19 A			08-Apr-19	31-May-19	0	0	\$0.00	C
S301610		Magnet: 1008 IR Design Power Supply AC and Quench Detector Power Distri	349	100%	01-Oct-19 A	26-Feb-21 A			21-Oct-19	31-Dec-19	0	30	\$4,417.95	C
S301700		Magnet: 1008 IR Design Power Supply AC Power Hook-up	28	100%	22-Apr-19 A	31-May-19 A			22-Apr-19	31-May-19	0	0	\$0.00	C
S301710		Magnet: 1008 IR Design Power Supply AC Power Hook-up Split	31	100%	12-Jan-21 A	26-Feb-21 A			02-Jan-20	08-Jan-20	0	18	\$2,730.29	C
S301800		Magnet: 1008 IR Design Quench Detector AC Power Hook-up	31	100%	12-Jan-21 A	26-Feb-21 A			02-Jan-20	08-Jan-20	0	16	\$2,426.93	C
S301900		Magnet: 1008 IR Design Power Supply, Magnet, Dump Resistor DC Cabling	23	100%	29-Apr-19 A	31-May-19 A			29-Apr-19	31-May-19	0	0	\$0.00	C
S301910		Magnet: 1008 IR Design Power Supply, Magnet, Dump Resistor DC Cabling S	31	100%	12-Jan-21 A	26-Feb-21 A			09-Jan-20	15-Jan-20	0	12	\$1,820.20	C
S302000		Magnet: Design Cable Tray and Supports for Power and Signal Distribution	18	100%	06-May-19 A	31-May-19 A			06-May-19	31-May-19	0	0	\$0.00	C
S302010		Magnet: Design Cable Tray and Supports for Power and Signal Distribution S	63	100%	23-Nov-20 A	26-Feb-21 A			16-Jan-20	23-Jan-20	0	60	\$9,100.98	C
S302100		Magnet: Design DC Flags 50%	43	100%	30-Jul-19 A	30-Sep-19 A			30-Jul-19	30-Sep-19	0	0	\$0.00	C
S302101		Magnet: Design DC Flags 50%	6	100%	20-Dec-21 A	29-Dec-21 A			24-Jan-20	20-Apr-20	0	5	\$781.17	C
POM02.02.02.04.01.02 Procure PS System Connections			442		24-Jul-19 A	30-Apr-21 A			24-Jul-19	22-Jun-20	37000	140	\$62,598.78	
S302200	005	Magnet: Delivery AC Power Distribution Parts M&S_50%	47	100%	24-Jul-19 A	30-Sep-19 A			24-Jul-19	30-Sep-19	0	0	\$0.00	C
S302201	005	Magnet: Delivery AC Power Distribution Parts M&S_50%	309	100%	02-Dec-19 A	26-Feb-21 A			01-Oct-19	31-Dec-19	10000	0	\$11,379.26	C
S302300		Magnet: Delivery Power Supply and Quench Detector AC Power Cables and I	23	100%	25-Jan-21 A	26-Feb-21 A			30-Mar-20	30-Mar-20	4000	0	\$4,642.74	C
S302400		Magnet: Delivery Power Supply, Magnet, Dump Resistor DC Cabling and Inte	108	100%	23-Nov-20 A	30-Apr-21 A			30-Mar-20	22-Jun-20	21000	0	\$24,374.37	C
S302500		Magnet: Order AC Power Distribution Parts Labor	191	100%	20-May-20 A	26-Feb-21 A			09-Jan-20	09-Jan-20	0	8	\$1,213.46	C
S302600		Magnet: Order Power Supply and Quench Detector AC Power Cables and Inte	32	100%	14-Aug-19 A	30-Sep-19 A			14-Aug-19	30-Sep-19	0	0	\$0.00	C
S302601		Magnet: Order Power Supply and Quench Detector AC Power Cables and Inte	327	100%	01-Nov-19 A	26-Feb-21 A			01-Oct-19	31-Dec-19	0	8	\$1,119.21	C
S302700		Magnet: Order Power Supply, Magnet, Dump Resistor DC Cabling and Interco	94	100%	15-Dec-20 A	30-Apr-21 A			16-Jan-20	17-Jan-20	0	16	\$2,426.93	C
S302800		Magnet: Fabricate DC flags	4	100%	22-Oct-20 A	28-Oct-20 A			21-Apr-20	04-May-20	0	40	\$5,152.94	C
S302900		Magnet: Order Cable Tray and Supports_15%	43	100%	30-Jul-19 A	30-Sep-19 A			30-Jul-19	30-Sep-19	0	0	\$0.00	C
S302901		Magnet: Order Cable Tray and Supports_85%	5	100%	24-Mar-20 A	31-Mar-20 A			01-Oct-19	31-Dec-19	0	68	\$10,014.02	C
S303000		Magnet: Order Cable Tray and Supports M&S	5	100%	24-Mar-20 A	31-Mar-20 A			02-Jan-20	27-Mar-20	2000	0	\$2,275.85	C
POM02.02.02.04.01.03 Install PS AC/DC Cabling			529		16-Sep-20 A	28-Oct-22 A			30-Mar-20	28-Jan-22	0	2216	\$290,542.30	
S303100		Magnet: Install Cable Tray and Supports for Power and Signal Distribution 10C	126	100%	22-Sep-20 A	29-Mar-21 A			30-Mar-20	10-Apr-20	0	200	\$26,679.07	C
S303200		Magnet: Install Cable Tray and Supports for Power and Signal Distribution in 1	291	100%	16-Sep-20 A	15-Nov-21 A			23-Jun-20	14-Jul-20	0	300	\$40,018.60	C
S303300		Magnet: Install Cable Tray and Supports for Power and Signal Distribution 10I	42	100%	01-Jul-22 A	31-Aug-22 A			15-Jul-20	04-Aug-20	0	300	\$41,219.16	C
S303310		Completed - Magnet: Install Cable Tray and Supports for Power and Signal Di	0	100%		31-Aug-22 A				04-Aug-20	0	0	\$0.00	C
S303400		Magnet: Pull & Terminate AC/DC Power Cables and Signal Cables 1008B	126	100%	22-Sep-20 A	29-Mar-21 A			13-Apr-20	24-Apr-20	0	396	\$49,575.41	C
S303500		Magnet: Pull & Terminate AC/DC Power Cables and Signal Cables 1008B to 1	104	100%	03-Jan-22 A	31-May-22 A			15-Jul-20	04-Aug-20	0	600	\$78,237.77	C
S303600		Magnet: Pull & Terminate AC/DC Power Cables and Signal Cables 1008IR	82	100%	01-Jul-22 A	28-Oct-22 A			14-Jan-22	28-Jan-22	0	420	\$54,812.28	C
S303610		Completed - Magnet: Pull & Terminate AC/DC Power Cables and Signal Cabl	0	100%		28-Oct-22 A				28-Jan-22	0	0	\$0.00	C
POM02.02.02.04.02 Power Supply			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	12-Aug-22	11137	1028	\$149,094.68	
POM02.02.02.04.02.01 Install Power Supply			1437		01-Feb-17 A	28-Oct-22 A			01-Feb-17	12-Aug-22	11137	1028	\$149,094.68	

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S303700		Magnet Power Supply Installation: Design Signal Interconnects	4	100%	01-Feb-17 A	07-Feb-17 A			01-Feb-17	07-Feb-17	0	0	\$0.00	C
S303800		Magnet Power Supply Installation: Disconnect Power Supply from Test System	1	100%	24-Jul-19 A	24-Jul-19 A			24-Jul-19	24-Jul-19	0	0	\$0.00	C
S303900		Magnet Power Supply Installation: Move Power Supply to location	7	100%	18-Aug-20 A	27-Aug-20 A			14-Aug-20	14-Aug-20	0	16	\$2,061.18	C
S304000		Magnet Power Supply Installation: Connect AC Power to Power Supply	7	100%	22-Mar-21 A	31-Mar-21 A			17-Aug-20	19-Aug-20	0	37	\$4,880.77	C
S304100		Magnet Power Supply Installation: Connect DC Cabling to Power Supply, Dun	127	100%	11-Aug-20 A	17-Feb-21 A			17-Aug-20	21-Aug-20	0	88	\$10,617.13	C
S304110		Completed - Magnet Power Supply Installation: Connect DC Cabling to Power	0	100%		01-Mar-21 A				21-Aug-20	0	0	\$0.00	C
S304200		Magnet Power Supply Installation: Connect Signal Interconnections 1008B	330	100%	24-May-21 A	15-Sep-22 A			17-Aug-20	20-Aug-20	0	39	\$4,823.25	C
S304300		Magnet Power Supply Installation: Cooling Water Design	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S304310		Magnet Power Supply Installation: Cooling Water Design Split	371	100%	01-Nov-19 A	28-Apr-21 A			01-Nov-19	31-Dec-19	0	64	\$9,424.96	C
S304400		Magnet Power Supply Installation: Cooling Water Installation 1008B	201	100%	03-Aug-20 A	24-May-21 A			17-Aug-20	21-Aug-20	0	70	\$8,228.21	C
S304500		Magnet Power Supply Installation: Water Cooled Bus Termination 1008B L	157	100%	03-Aug-20 A	23-Mar-21 A			17-Aug-20	21-Aug-20	0	70	\$8,228.21	C
S304510		Completed - Magnet Power Supply Installation: Water Cooled Bus Terminator	0	100%		17-May-21 A				21-Aug-20	0	0	\$0.00	C
S304600		Magnet Power Supply Installation: Water Cooled Bus Termination 1008B M&S	201	100%	03-Aug-20 A	24-May-21 A			17-Aug-20	21-Aug-20	8000	0	\$8,924.91	C
S304700		Magnet Power Supply Installation: Water Cooled Bus Termination 1008IR L	55	100%	10-Aug-22 A	28-Oct-22 A			25-Jul-22	29-Jul-22	0	70	\$8,729.30	C
S304710		Completed - Magnet Power Supply Installation: Water Cooled Bus Terminator	0	100%		28-Oct-22 A				29-Jul-22	0	0	\$0.00	C
S304800		Magnet Power Supply Installation: Water Cooled Bus Termination 1008IR M&S	19	100%	01-Jul-22 A	29-Jul-22 A			25-Jul-22	29-Jul-22	3137	0	\$3,499.68	C
S304900		Magnet Power Supply Installation: Design and Test Control Interface update s	19	100%	03-Sep-19 A	30-Sep-19 A			03-Sep-19	30-Sep-19	0	0	\$0.00	C
S304901		Magnet Power Supply Installation: Design and Test Control Interface update s	11	100%	13-Nov-19 A	29-Nov-19 A			01-Oct-19	31-Dec-19	0	90	\$13,937.79	C
S305000		Magnet Power Supply Installation: Power Supply Testing	24	100%	23-Sep-22 A	28-Oct-22 A			01-Aug-22	12-Aug-22	0	160	\$22,450.66	C
S305010		Completed - Magnet Power Supply Installation: Power Supply Testing	0	100%		28-Oct-22 A				12-Aug-22	0	0	\$0.00	C
S305100		Magnet Power Supply Installation: Documentation	94	100%	16-Jan-19 A	31-May-19 A			16-Jan-19	31-May-19	0	0	\$0.00	C
S305110		Magnet Power Supply Installation: Documentation Split	60	100%	01-Oct-19 A	31-Dec-19 A			01-Oct-19	31-Dec-20	0	324	\$43,288.65	C
POM02.02.02.04.03 Quench Detector			934		09-Jan-19 A	30-Sep-22 A			09-Jan-19	16-Nov-20	1800	370	\$52,444.28	
POM02.02.02.04.03.02 Procure Quench Detector System Connections			934		09-Jan-19 A	30-Sep-22 A			09-Jan-19	16-Nov-20	1800	370	\$52,444.28	
S306400		Magnet: Order Quench Detector Signal Cables and Interconnects L	375	100%	01-Aug-19 A	02-Feb-21 A			03-Jun-19	07-Jun-19	0	0	\$0.00	C
S306500		Magnet: Order Quench Detector Signal Cables and Interconnects M&S_10%	41	100%	01-Aug-19 A	30-Sep-19 A			01-Aug-19	30-Sep-19	0	0	\$0.00	C
S306501		Magnet: Order Quench Detector Signal Cables and Interconnects M&S_90%	299	100%	20-Nov-19 A	02-Feb-21 A			01-Oct-19	15-Jul-20	1800	0	\$2,048.27	C
S306600		Magnet: Delivery of Quench Detector Signal Cables and Interconnects	370	100%	08-Aug-19 A	03-Feb-21 A			16-Jul-20	12-Aug-20	0	0	\$0.00	C
S306700	028	Magnet: Install Quench Detector Cabling	66	100%	14-Jun-22 A	15-Sep-22 A			13-Aug-20	19-Aug-20	0	0	\$0.00	C
POM02.02.02.04.03.02.01 Install Quench Detector			934		09-Jan-19 A	30-Sep-22 A			09-Jan-19	16-Nov-20	0	370	\$50,396.01	
S306800		Magnet: Disconnect Quench Detector from Test System in 912	10	100%	13-May-20 A	28-May-20 A			13-Aug-20	13-Aug-20	0	8	\$912.98	C
S306900		Magnet: Move Quench Detector to location	117	100%	14-May-20 A	30-Oct-20 A			14-Aug-20	14-Aug-20	0	16	\$2,001.14	C
S307000		Magnet: Connect AC Power to Quench Detector	18	100%	12-Jan-21 A	05-Feb-21 A			17-Aug-20	19-Aug-20	0	24	\$3,091.76	C
S307100		Magnet: Connect Signal Interconnections	385	100%	08-Mar-21 A	15-Sep-22 A			17-Aug-20	28-Aug-20	0	80	\$9,403.66	C
S307200		Magnet: Quench Detector Testing	301	100%	20-Jul-21 A	30-Sep-22 A			09-Nov-20	16-Nov-20	0	160	\$24,119.37	C
S307300		Magnet: Quench Detector Documentation	99	100%	09-Jan-19 A	31-May-19 A			09-Jan-19	31-May-19	0	0	\$0.00	C
S307310		Magnet: Quench Detector Documentation Split_15%	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S307311		Magnet: Quench Detector Documentation Split_85%	663	100%	01-Oct-19 A	27-May-22 A			01-Oct-19	06-Nov-20	0	82	\$10,867.10	C
POM02.02.02.05 Magnet Field Measurements			1320		02-Oct-17 A	17-Jan-23	30-Dec-22	62	02-Oct-17	10-Nov-22	78217	2516	\$474,609.61	
S1000239	003	Actuals - Labor - sPHENIX Magnet FY18 16720	248	100%	02-Oct-17 A	28-Sep-18 A			02-Oct-17	28-Sep-18	0	6	\$925.36	C
S1001439	003	Actuals - Labor - sPHENIX Magnet FY19 M8 16720	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	38	\$6,429.73	C
S1001479	003	Actuals - NonLabor - sPHENIX Magnet FY19 M8 16720	164	100%	01-Oct-18 A	30-May-19 A			01-Oct-18	31-May-19	1217	0	\$1,343.15	C
S1004600	003	Actuals - Labor FY19 Jun-Sep 16720	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	13	\$2,145.31	C
POM02.02.02.05.01 Magnet Field Measurements Engineering and Design, Field Studies and Stress Analysis			660		13-Feb-18 A	30-Sep-20 A			13-Feb-18	21-Jun-21	0	245	\$35,238.60	
S307400		Magnet Field Measurements: Setup a detailed 3D model of the coil, return yok	159	100%	13-Feb-18 A	28-Sep-18 A			13-Feb-18	28-Sep-18	0	0	\$0.00	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source	
S307500		Magnet Field Measurements: Setup a detailed 3D model of the coil, return yok	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C	
S307510		Magnet Field Measurements: Setup a detailed 3D model of the coil, return yok	63	100%	01-Jul-19 A	30-Sep-19 A			01-Jul-19	30-Sep-19	0	0	\$0.00	C	
S307511		Magnet Field Measurements: Setup a detailed 3D model of the coil, return yok	61	100%	01-Oct-19 A	31-Dec-19 A			01-Oct-19	31-Dec-19	0	25	\$3,989.16	C	
S307600		Magnet Field Measurements: Design mounts for probes to monitor field - Phys	10	100%	03-Feb-20 A	14-Feb-20 A			02-Jan-20	15-Jan-20	0	40	\$4,564.89	C	
S307610		Magnet Field Measurements: Design mounts for probes to monitor field - CA-I	10	100%	03-Feb-20 A	14-Feb-20 A			02-Jan-20	15-Jan-20	0	8	\$1,178.12	C	
S307700		Magnet Field Measurements: Design readout for probes to monitor field - Phy	5	100%	18-Feb-20 A	24-Feb-20 A			16-Jan-20	23-Jan-20	0	40	\$4,564.89	C	
S307710		Magnet Field Measurements: Design readout for probes to monitor field - CA-	5	100%	18-Feb-20 A	24-Feb-20 A			16-Jan-20	23-Jan-20	0	4	\$589.06	C	
S307800		Magnet Field Measurements: Perform Magnet Assembly Stress Analysis FY18	139	100%	14-Mar-18 A	28-Sep-18 A			14-Mar-18	28-Sep-18	0	0	\$0.00	C	
S307900		Magnet Field Measurements: Perform Magnet Assembly Stress Analysis FY19	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C	
S307905		Magnet Field Measurements: Perform Magnet Assembly Stress Analysis FY19	21	100%	01-Aug-19 A	30-Aug-19 A			01-Oct-19	31-Dec-19	0	0	\$0.00	C	
S307910		Magnet Field Measurements: Perform Magnet Assembly Stress Analysis FY19	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C	
S307920		Magnet Field Measurements: Perform Magnet Assembly Stress Analysis FY19	63	100%	01-Jul-19 A	30-Sep-19 A			01-Jul-19	30-Sep-19	0	0	\$0.00	C	
S307921		Magnet Field Measurements: Perform Magnet Assembly Stress Analysis FY19	61	100%	01-Oct-19 A	31-Dec-19 A			01-Oct-19	31-Dec-19	0	48	\$7,009.81	C	
S307922	012	Final Field Calculations Pre-measurement - Phys	7	100%	21-Sep-20 A	30-Sep-20 A			01-Sep-20	21-Jun-21	0	20	\$4,241.69	C	
S307923	012	Final Field Calculations Pre-measurement - CAD	7	100%	21-Sep-20 A	30-Sep-20 A			01-Sep-20	21-Jun-21	0	60	\$9,100.98	C	
S308000		Magnet Field Measurements: Magnet Engineering and Design Complete	0	100%		03-Feb-20 A				23-Jan-20	0	0	\$0.00	C	
POM02.02.02.05.02 Magnet Field Measurements Equipment Purchase and Fabrication			750		16-Jan-20 A	17-Jan-23	30-Dec-22	62	03-Jun-19	03-Feb-22	14000	654	\$104,771.09		
S308100	012	Magnet Field Measurements: Procure NMR probes Labor	40	100%	24-Jan-20 A	20-Mar-20 A			24-Jan-20	20-Mar-20	0	10	\$1,472.65	C	
S308200	012	Magnet Field Measurements: Procure NMR probes M&S	64	100%	24-Jan-20 A	24-Apr-20 A			24-Jan-20	24-Jan-20	6000	0	\$6,827.55	C	
S308300	012	Magnet Field Measurements: Procure NMR probe readout parts Labor	64	100%	24-Jan-20 A	24-Apr-20 A			24-Jan-20	20-Mar-20	0	10	\$1,472.65	C	
S308400	012	Magnet Field Measurements: Procure NMR probe readout parts M&S	64	100%	24-Jan-20 A	24-Apr-20 A			24-Jan-20	20-Mar-20	1000	0	\$1,137.93	C	
S308600	012	Magnet Field Measurements: Fabricate NMR probe mounts - Physics Resourc	69	100%	16-Jan-20 A	24-Apr-20 A			16-Jan-20	13-Feb-20	0	176	\$21,013.23	C	
S308510	012	Completed - Magnet Field Measurements: Fabricate NMR probe readout parts	0	100%		17-Apr-20 A				03-Jun-19	0	0	\$0.00	C	
S308500	012	Magnet Field Measurements: Fabricate NMR probe readout parts	20	100%	01-May-20 A	29-May-20 A			23-Mar-20	17-Apr-20	0	192	\$23,369.47	C	
S308610	012	Magnet Field Measurements: Fabricate NMR probe mounts - CA-D Resource	20	100%	01-May-20 A	29-May-20 A			16-Jan-20	13-Feb-20	0	16	\$2,356.24	C	
S308611	012	Specify and test probes for field monitoring	61	100%	01-Oct-20 A	31-Dec-20 A			01-Oct-20	15-Oct-20	0	48	\$8,247.21	C	
S308613	012	Purchase probes for Magnetic Field Measurements	37	100%	04-Nov-20 A	31-Dec-20 A			16-Oct-20	29-Oct-20	7000	0	\$8,124.79	C	
S308615	012	Develop readout electronics	415	100%	30-Oct-20 A	30-Jun-22 A			30-Oct-20	15-Dec-20	0	90	\$13,651.47	C	
S308617	012	Calibrate probes	81	20%	01-Sep-22 A	30-Dec-22	30-Dec-22	62	16-Dec-20	14-Jan-21	0	72	\$12,255.01	C	
S308619	012	Install probes and readout on TPC	10	0%	03-Jan-23	17-Jan-23			21-Jan-22	03-Feb-22	0	40	\$4,842.89	C	
POM02.02.02.05.03 Magnet Field Measurements Installation and Test, Post-Test Field Studies and Stress Analysis			728		24-Jan-20 A	20-Dec-22	03-Nov-22	79	24-Jan-20	10-Nov-22	63000	1560	\$323,756.37		
S308621	012	Conceptual design of mapping campaign	435	100%	01-Oct-20 A	30-Jun-22 A			01-Oct-20	29-Oct-20	0	32	\$6,786.71	C	
S308623	012	Develop mapping plan with Vendor	415	100%	30-Oct-20 A	30-Jun-22 A			30-Oct-20	30-Dec-20	0	100	\$21,208.47	C	
S308625	012	Complete MOU with Vendor	349	100%	22-Feb-21 A	13-Jul-22 A			31-Dec-20	29-Jan-21	0	8	\$1,747.58	C	
S308627	012	Place contract with Vendor (Procurement string, \$70K obligated at Contract aw	27	100%	08-Jun-22 A	18-Jul-22 A			01-Feb-21	22-Jun-21	63000	0	\$74,585.57	C	
S308629	012	Complete mechanical and electrical design for mapping	443	100%	23-Nov-20 A	31-Aug-22 A			23-Jun-21	21-Jul-21	0	90	\$12,646.29	C	
S308631	012	Review mapping plan	18	100%	01-Jun-22 A	27-Jun-22 A			22-Jul-21	28-Jul-21	0	42	\$6,621.36	C	
S308633	012	Construct mapping support (mechanical and electrical)	414	100%	08-Mar-21 A	28-Oct-22 A			29-Jul-21	11-Aug-21	0	32	\$3,874.31	C	
S308700	012	Magnet Field Measurements: Run 3D field simulations and construct field and	20	100%	24-Jan-20 A	24-Feb-20 A			24-Jan-20	06-Feb-20	0	40	\$6,884.23	C	
S308710	012	Magnet Field Measurements: Run 3D field simulations and construct field and	20	100%	24-Jan-20 A	24-Feb-20 A			24-Jan-20	06-Feb-20	0	40	\$6,884.23	C	
S308900		Magnet Field Measurements: Install Field Mapping Equipment	4	50%	31-Oct-22 A	03-Nov-22	03-Nov-22	29	10-Aug-22	23-Aug-22	0	480	\$76,988.37	C	
S309000		Magnet Field Measurements: Map Magnetic Field of SC Magnet	8	0%	04-Nov-22	16-Nov-22			29	19-Sep-22	07-Oct-22	0	480	\$76,988.37	C
S309005	033C	Magnet Field Measurements: Map Magnetic Field of SC Magnet	8	0%	04-Nov-22	16-Nov-22			29	19-Sep-22	07-Oct-22	0	80	\$9,976.35	C
S309010		Completed - Magnet Field Measurements: Map Magnetic Field of SC Magnet	0	0%		16-Nov-22			29	07-Oct-22	0	0	\$0.00	C	
S309100	028	Magnet Field Measurements: Open poletip door Remove Field Mapping Equi	2	0%	17-Nov-22	18-Nov-22			29	11-Oct-22	13-Oct-22	0	120	\$14,964.52	C

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S309110	012	Receive report from CERN, incorporate into analysis	20	0%	21-Nov-22*	20-Dec-22		79	14-Oct-22	10-Nov-22	0	16	\$3,600.01	C
POM02.02.03 Carriage and Structural Components			1468		01-Feb-17 A	14-Dec-22	30-Nov-22	83	01-Feb-17	31-Jan-22	12174532	20584	\$16,127,061.99	
S309400	003	Actuals - Nonlabor - sPHENIX Infrastructure FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	C
POM02.02.03.01 Cradle Carriage			1374		01-Feb-17 A	29-Jul-22 A			01-Feb-17	09-Mar-21	2873256	7698	\$4,207,976.15	
OBLG31101		Carriage Cradle - Obligation	0	100%	01-Jul-20 A	01-Jul-20 A			05-May-20	05-May-20	1250672	0	\$1,250,672.37	C
OBLG31291		CC Drive & Alignment System - Obligation	1	100%	01-Dec-20 A	01-Dec-20 A			20-Aug-20	20-Aug-20	65672	0	\$65,671.53	C
OBLG31431		CC Seismic Restraints - Obligation	19	100%	01-Jul-22 A	29-Jul-22 A			09-Jun-20	09-Jun-20	143379	0	\$143,378.65	C
OBLG31581		Track Modifications - Obligation	1	100%	01-Oct-19 A	01-Oct-19 A			03-Jun-19	03-Jun-19	30440	0	\$30,439.52	C
S1001799	003	Actuals - Labor - sPHENIX Infrastructure FY19 M8 16729	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	1142	\$190,783.32	C
S1004880	003	Actuals - Labor FY19 Jun-Sep 16729	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	1358	\$226,959.94	C
S309600		Carriage Cradle - Create Overall Preliminary Layout	353	100%	01-Feb-17 A	28-Jun-18 A			01-Feb-17	28-Jun-18	0	0	\$0.00	C
S309700		Carriage Cradle - Perform Analyses, Design & System Integration (Initial)	127	100%	30-Mar-18 A	28-Sep-18 A			30-Mar-18	28-Sep-18	0	0	\$0.00	C
S309800		Carriage Cradle - Perform Analyses, Design & System Integration (Final) - Ph	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S309810		Carriage Cradle - Perform Analyses, Design & System Integration (Final) - CA	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S309900		Carriage Cradle - Preliminary Design Review (Assembly, System Integration, I	12	100%	11-Feb-19 A	28-Feb-19 A			11-Feb-19	28-Feb-19	0	0	\$0.00	C
S309910		Carriage Cradle - Preliminary Design Review (Assembly, System Integration, I	12	100%	11-Feb-19 A	28-Feb-19 A			11-Feb-19	28-Feb-19	0	0	\$0.00	C
S310000		Carriage Cradle - Create Assembly & Detail Drawings - Physics Resource(s)	114	100%	17-Dec-18 A	31-May-19 A			17-Dec-18	31-May-19	0	0	\$0.00	C
S310005		Carriage Cradle - Create Assembly & Detail Drawings - Physics Resource(s) (	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S310006		Carriage Cradle - Create Assembly & Detail Drawings - Physics Resource(s) (	40	100%	01-Oct-19 A	29-Nov-19 A			01-Oct-19	07-Oct-19	0	22	\$2,487.86	C
S310010		Carriage Cradle - Create Assembly & Detail Drawings - CA-D Resource(s)	114	100%	17-Dec-18 A	31-May-19 A			17-Dec-18	31-May-19	0	0	\$0.00	C
S310015		Carriage Cradle - Create Assembly & Detail Drawings - CA-D Resource(s) Sp	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S310016		Carriage Cradle - Create Assembly & Detail Drawings - CA-D Resource(s) Sp	40	100%	01-Oct-19 A	29-Nov-19 A			01-Oct-19	07-Oct-19	0	38	\$5,237.49	C
S310100		Carriage Cradle - Final Review (Design & Safety) - Physics Resource(s)	1	100%	07-Aug-19 A	08-Aug-19 A			07-Aug-19	07-Aug-19	0	0	\$0.00	C
S310110		Carriage Cradle - Final Review (Design & Safety) - CA-D Resource(s)	19	100%	03-Sep-19 A	30-Sep-19 A			07-Aug-19	20-Aug-19	0	0	\$0.00	C
S310200		Carriage Cradle - Address Action Items from Design & Safety Reviews - Physi	10	100%	16-Sep-19 A	30-Sep-19 A			16-Sep-19	30-Sep-19	0	0	\$0.00	C
S310201		Carriage Cradle - Address Action Items from Design & Safety Reviews - Physi	11	100%	01-Oct-19 A	17-Oct-19 A			01-Oct-19	17-Oct-19	0	57	\$6,852.86	C
S310210		Carriage Cradle - Address Action Items from Design & Safety Reviews - CA-D	10	100%	16-Sep-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S310211		Carriage Cradle - Address Action Items from Design & Safety Reviews - CA-D	11	100%	01-Oct-19 A	17-Oct-19 A			01-Oct-19	17-Oct-19	0	135	\$19,073.29	C
S310300		Carriage Cradle - Design & Safety Reviews Complete Released for Production	0	100%		01-Nov-19 A				17-Oct-19	0	0	\$0.00	C
S310400	003	Carriage Cradle - Prepare Procurement Package(s) - Physics Resource(s)	32	100%	01-Oct-19 A	15-Nov-19 A			18-Oct-19	15-Nov-19	0	48	\$5,477.86	C
S310410	003	Carriage Cradle - Prepare Procurement Package(s) - CA-D Resource(s)	32	100%	01-Oct-19 A	15-Nov-19 A			18-Oct-19	15-Nov-19	0	68	\$9,674.55	C
S310500	003	Carriage Cradle - Procurement Readiness Review - Physics Resource(s)	5	100%	18-Nov-19 A	22-Nov-19 A			18-Nov-19	22-Nov-19	0	36	\$4,108.40	C
S310510	003	Carriage Cradle - Procurement Readiness Review - CA-D Resource(s)	5	100%	18-Nov-19 A	22-Nov-19 A			18-Nov-19	22-Nov-19	0	36	\$4,903.83	C
S310600		Carriage Cradle - Provide Requirement to Procurement	23	100%	25-Nov-19 A	31-Dec-19 A			25-Nov-19	03-Dec-19	0	8	\$1,360.50	C
S310700		Carriage Cradle - Prepare & Send Solicitation	31	100%	16-Dec-19 A	31-Jan-20 A			04-Dec-19	10-Dec-19	0	0	\$0.00	C
S310800		Carriage Cradle - Vendor Responses - Physics Resource(s)	50	100%	08-Jan-20 A	19-Mar-20 A			11-Dec-19	09-Mar-20	0	36	\$4,108.40	C
S310810		Carriage Cradle - Vendor Responses - CA-D Resource(s)	50	100%	08-Jan-20 A	19-Mar-20 A			11-Dec-19	09-Mar-20	0	108	\$15,532.21	C
S310900		Carriage Cradle - Vendor Selection - Physics Resource(s)	3	100%	20-Mar-20 A	25-Mar-20 A			10-Mar-20	04-May-20	0	108	\$12,325.19	C
S310910		Carriage Cradle - Vendor Selection - CA-D Resource(s)	3	100%	20-Mar-20 A	25-Mar-20 A			10-Mar-20	04-May-20	0	76	\$10,454.96	C
S311000		Carriage Cradle - Contract Award(s)	1	100%	01-Apr-20 A	01-Apr-20 A			05-May-20	05-May-20	0	0	\$0.00	C
S311100	012	Carriage Cradle - BNL Oversight - Physics Resource(s)	180	100%	06-May-20 A	26-Jan-21 A			06-May-20	26-Jan-21	0	50	\$5,779.33	C
S311110	012	Carriage Cradle - BNL Oversight - CA-D Resource(s)	180	100%	06-May-20 A	26-Jan-21 A			06-May-20	26-Jan-21	0	90	\$14,011.88	C
S311200	012	Carriage Cradle - Vendor Leadtime	83	100%	06-May-20 A	01-Sep-20 A			06-May-20	14-Jul-20	0	0	\$0.00	C
S311300	012	Carriage Cradle - Delivery Acceptance - Physics Resource(s) - Labor	80	100%	02-Sep-20 A	30-Dec-20 A			15-Jul-20	11-Aug-20	0	96	\$10,955.73	C
S311310	012	Carriage Cradle - Delivery Acceptance - CA-D Resource(s) - Labor	80	100%	02-Sep-20 A	30-Dec-20 A			15-Jul-20	11-Aug-20	0	56	\$7,898.94	C

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S311350	012	Carriage Cradle - Delivery Acceptance - M&S	1	100%	01-Jul-20 A	02-Jul-20 A			15-Jul-20	15-Jul-20	204848	0	\$233,101.82	C
S311355	012	Carriage Cradle - Delivery Acceptance Two - M&S	7	100%	21-Dec-20 A	31-Dec-20 A			08-Feb-21	08-Feb-21	1101666	0	\$1,278,686.44	C
S311400	012	Carriage Cradle - Components Ready for Installation	0	100%		15-Apr-21 A				08-Feb-21	0	0	\$0.00	C
S311500		Carriage Cradle - Assembly Fixtures & Survey Tooling Engineering - Physics I	117	100%	14-May-20 A	30-Oct-20 A			14-Apr-20	11-May-20	0	80	\$9,129.77	C
S311510		Carriage Cradle - Assembly Fixtures & Survey Tooling Engineering - CA-D Re	117	100%	14-May-20 A	30-Oct-20 A			14-Apr-20	11-May-20	0	320	\$46,297.22	C
S311600		Carriage Cradle - Assembly Fixtures & Survey Tooling Design - Physics Reso	12	100%	14-Oct-20 A	30-Oct-20 A			12-May-20	09-Jun-20	0	80	\$9,403.66	C
S311610		Carriage Cradle - Assembly Fixtures & Survey Tooling Design - CA-D Resourc	12	100%	14-Oct-20 A	30-Oct-20 A			12-May-20	09-Jun-20	0	320	\$47,686.13	C
S311700	008C	Carriage Cradle - Fabricate Fixtures & Tooling	12	100%	14-Oct-20 A	30-Oct-20 A			10-Jun-20	05-Aug-20	0	0	\$0.00	C
S311800		CC Drive & Alignment System - Engineering (re-engineer & use STAR control	133	100%	18-Oct-19 A	30-Apr-20 A			18-Oct-19	16-Jan-20	0	15	\$1,711.83	C
S311810		CC Drive & Alignment System - Engineering (re-engineer & use STAR control	133	100%	18-Oct-19 A	30-Apr-20 A			18-Oct-19	16-Jan-20	0	109	\$17,013.82	C
S311900		CC Drive & Alignment System - Design Carriage Controls & Limits	191	100%	02-Dec-19 A	01-Sep-20 A			25-Nov-19	09-Jan-20	0	120	\$17,671.80	C
S312000		CC Drive & Alignment System - Assembly & Detail Drawings - Physics Resou	108	100%	01-Apr-20 A	01-Sep-20 A			17-Jan-20	13-Apr-20	0	240	\$27,389.31	C
S312010		CC Drive & Alignment System - Assembly & Detail Drawings - CA-D Resourc	108	100%	01-Apr-20 A	01-Sep-20 A			17-Jan-20	13-Apr-20	0	440	\$58,666.16	C
S312100		CC Drive & Alignment System - Final Design Reviews (Design & Safety) - Ph	12	100%	14-Apr-20 A	30-Apr-20 A			14-Apr-20	27-Apr-20	0	40	\$4,564.89	C
S312110		CC Drive & Alignment System - Final Design Reviews (Design & Safety) - CA	12	100%	14-Apr-20 A	30-Apr-20 A			14-Apr-20	27-Apr-20	0	160	\$23,148.61	C
S312200		CC Drive & Alignment System - Address Action Items from Design & Safety R	123	100%	21-Apr-20 A	14-Oct-20 A			28-Apr-20	11-May-20	0	40	\$4,564.89	C
S312210		CC Drive & Alignment System - Address Action Items from Design & Safety R	123	100%	21-Apr-20 A	14-Oct-20 A			28-Apr-20	11-May-20	0	160	\$23,148.61	C
S312300	003	CC Drive & Alignment System - Prepare Procurement Package - Physics Res	60	100%	28-Jul-20 A	21-Oct-20 A			12-May-20	18-May-20	0	20	\$2,282.44	C
S312310	003	CC Drive & Alignment System - Prepare Procurement Package - CA-D Resou	60	100%	28-Jul-20 A	21-Oct-20 A			12-May-20	18-May-20	0	48	\$6,588.25	C
S312400	003	CC Drive & Alignment System - Procurement Readiness Review - Physics Re	5	100%	01-Oct-20 A	07-Oct-20 A			19-May-20	26-May-20	0	20	\$2,350.92	C
S312410	003	CC Drive & Alignment System - Procurement Readiness Review - CA-D Reso	5	100%	01-Oct-20 A	07-Oct-20 A			19-May-20	26-May-20	0	48	\$6,785.90	C
S312500		CC Drive & Alignment System - Provide Requirement to Procurement	5	100%	08-Oct-20 A	15-Oct-20 A			27-May-20	02-Jun-20	0	8	\$1,401.32	C
S312600		CC Drive & Alignment System - Prepare & Send Solicitation	8	100%	16-Oct-20 A	28-Oct-20 A			03-Jun-20	09-Jun-20	0	0	\$0.00	
S312700		CC Drive & Alignment System - Vendor Responses - Physics Resource(s)	3	100%	23-Oct-20 A	28-Oct-20 A			10-Jun-20	15-Jul-20	0	18	\$2,115.82	C
S312710		CC Drive & Alignment System - Vendor Responses - CA-D Resource(s)	3	100%	23-Oct-20 A	28-Oct-20 A			10-Jun-20	15-Jul-20	0	44	\$6,247.44	C
S312800		CC Drive & Alignment System - Vendor Selection - Physics Resource(s)	3	100%	23-Oct-20 A	28-Oct-20 A			16-Jul-20	19-Aug-20	0	54	\$6,347.47	C
S312810		CC Drive & Alignment System - Vendor Selection - CA-D Resource(s)	3	100%	23-Oct-20 A	28-Oct-20 A			16-Jul-20	19-Aug-20	0	44	\$6,247.44	C
S312900		CC Drive & Alignment System - Contract Award(s)	0	100%	30-Nov-20 A				20-Aug-20		0	0	\$0.00	C
S313000	003	CC Drive & Alignment System - BNL Oversight - Physics Resource(s)	110	100%	03-Nov-20 A	15-Apr-21 A			21-Aug-20	23-Dec-20	0	50	\$5,877.29	C
S313010	003	CC Drive & Alignment System - BNL Oversight - CA-D Resource(s)	110	100%	03-Nov-20 A	15-Apr-21 A			21-Aug-20	23-Dec-20	0	50	\$7,712.42	C
S313100	003	CC Drive & Alignment System - Vendor Leadtime	110	100%	03-Nov-20 A	15-Apr-21 A			21-Aug-20	23-Dec-20	0	0	\$0.00	C
S313200	012	CC Drive & Alignment System - Delivery Acceptance - Physics Resource(s) - I	3	100%	12-Apr-21 A	15-Apr-21 A			24-Dec-20	31-Dec-20	0	96	\$11,284.40	C
S313210	012	CC Drive & Alignment System - Delivery Acceptance - CA-D Resource(s) - La	3	100%	12-Apr-21 A	15-Apr-21 A			24-Dec-20	31-Dec-20	0	52	\$7,435.25	C
S313250	012	CC Drive & Alignment System - Delivery Acceptance - M&S	3	100%	12-Apr-21 A	15-Apr-21 A			24-Dec-20	31-Dec-20	56580	0	\$65,671.52	C
S313255		Completed - CC Drive & Alignment System - Delivery Acceptance - M&S	0	100%		15-Apr-21 A				31-Dec-20	0	0	\$0.00	C
S313300		CC Seismic Restraints - Engineer & Analysis	105	100%	28-Oct-19 A	31-Mar-20 A			31-Oct-19	16-Dec-19	0	360	\$55,751.17	C
S313400		CC Seismic Restraints - Assembly & Detail Drawings - Physics Resource(s)	655	100%	17-Dec-19 A	29-Jul-22 A			17-Dec-19	30-Jan-20	0	120	\$13,694.66	C
S313410		CC Seismic Restraints - Assembly & Detail Drawings - CA-D Resource(s)	655	100%	17-Dec-19 A	29-Jul-22 A			17-Dec-19	30-Jan-20	0	240	\$32,278.38	C
S313500	035C	CC Seismic Restraints - Final Design Reviews (Design & Safety) - Physics R	19	100%	01-Jul-22 A	29-Jul-22 A			31-Jan-20	06-Feb-20	0	0	\$0.00	C
S313510	035C	CC Seismic Restraints - Final Design Reviews (Design & Safety) - CA-D Res	19	100%	01-Jul-22 A	29-Jul-22 A			31-Jan-20	06-Feb-20	0	0	\$0.00	C
S313600	035C	CC Seismic Restraints - Address Action Items from Design & Safety Reviews -	19	100%	01-Jul-22 A	29-Jul-22 A			07-Feb-20	13-Feb-20	0	0	\$0.00	C
S313610	035C	CC Seismic Restraints - Address Action Items from Design & Safety Reviews -	19	100%	01-Jul-22 A	29-Jul-22 A			07-Feb-20	13-Feb-20	0	0	\$0.00	C
S313700	035C	CC Seismic Restraints - Prepare Procurement Package - Physics Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			14-Feb-20	21-Feb-20	0	0	\$0.00	C
S313710	035C	CC Seismic Restraints - Prepare Procurement Package - CA-D Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			14-Feb-20	21-Feb-20	0	0	\$0.00	C
S313800	035C	CC Seismic Restraints - Procurement Readiness Review - Physics Resource	19	100%	01-Jul-22 A	29-Jul-22 A			24-Feb-20	28-Feb-20	0	0	\$0.00	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S313810	035C	CC Seismic Restraints - Procurement Readiness Review - CA-D Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			24-Feb-20	28-Feb-20	0	0	\$0.00	C
S313900	035C	CC Seismic Restraints - Provide Requirement to Procurement	19	100%	01-Jul-22 A	29-Jul-22 A			02-Mar-20	06-Mar-20	0	0	\$0.00	C
S314000	035C	CC Seismic Restraints - Prepare & Send Solicitation	19	100%	01-Jul-22 A	29-Jul-22 A			09-Mar-20	13-Mar-20	0	0	\$0.00	C
S314100	035C	CC Seismic Restraints - Vendor Responses - Physics Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			16-Mar-20	24-Apr-20	0	0	\$0.00	C
S314110	035C	CC Seismic Restraints - Vendor Responses - CA-D Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			16-Mar-20	24-Apr-20	0	0	\$0.00	C
S314200	035C	CC Seismic Restraints - Vendor Selection - Physics Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			27-Apr-20	08-Jun-20	0	0	\$0.00	C
S314210	035C	CC Seismic Restraints - Vendor Selection - CA-D Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			27-Apr-20	08-Jun-20	0	0	\$0.00	C
S314300	035C	CC Seismic Restraints - Contract Award(s)	0	100%	29-Jul-22 A				09-Jun-20		0	0	\$0.00	C
S314400	035C	CC Seismic Restraints - BNL Oversight - Physics Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			10-Jun-20	02-Mar-21	0	0	\$0.00	C
S314410	035C	CC Seismic Restraints - BNL Oversight - CA-D Resource(s)	19	100%	01-Jul-22 A	29-Jul-22 A			10-Jun-20	02-Mar-21	0	0	\$0.00	C
S314500	035C	CC Seismic Restraints - Vendor Leadtime	19	100%	01-Jul-22 A	29-Jul-22 A			10-Jun-20	02-Mar-21	0	0	\$0.00	C
S314600	035C	CC Seismic Restraints - Delivery Acceptance - Physics Resource(s) - Labor	19	100%	01-Jul-22 A	29-Jul-22 A			03-Mar-21	09-Mar-21	0	0	\$0.00	C
S314610	035C	CC Seismic Restraints - Delivery Acceptance - CA-D Resource(s) - Labor	19	100%	01-Jul-22 A	29-Jul-22 A			03-Mar-21	09-Mar-21	0	0	\$0.00	C
S314650	035C	CC Seismic Restraints - Delivery Acceptance - M&S	19	100%	01-Jul-22 A	29-Jul-22 A			03-Mar-21	09-Mar-21	0	0	\$0.00	C
S314655	035C	Completed - CC Seismic Restraints - Delivery Acceptance - M&S	0	100%		29-Jul-22 A				09-Mar-21	0	0	\$0.00	C
S314700		Track Modifications - Structural Analysis of Existing Track System & Prelimina	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S314705		Track Modifications - Structural Analysis of Existing Track System & Prelimina	105	100%	03-Jun-19 A	30-Oct-19 A			03-Jun-19	30-Aug-19	0	0	\$0.00	C
S314710		Steel Track Modifications - Structural Analysis of Existing Steel Track System	104	100%	02-Jan-19 A	31-May-19 A			01-Oct-19	15-Oct-19	0	0	\$0.00	C
S314715		Steel Track Modifications - Structural Analysis of Existing Steel Track System	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S314716		Steel Track Modifications - Structural Analysis of Existing Steel Track System	21	100%	01-Oct-19 A	30-Oct-19 A			01-Oct-19	30-Oct-19	0	34	\$3,880.15	C
S315010		Steel Track Modifications - Final Design Reviews (Design & Safety)	1	100%	30-Oct-19 A	31-Oct-19 A			31-Oct-19	31-Oct-19	0	8	\$1,178.12	C
S315110		Steel Track Modifications - Address Action Items from Design & Safety Review	10	100%	01-Nov-19 A	15-Nov-19 A			01-Nov-19	01-Nov-19	0	8	\$1,012.08	C
S315900	003	Steel Track Modifications - BNL Oversight Construction - Physics Resource(s)	50	100%	18-Nov-19 A	31-Jan-20 A			04-Nov-19	18-Dec-19	0	80	\$9,129.77	C
S315910	003	Steel Track Modifications - BNL Oversight Construction - CA-D Resource(s)	50	100%	18-Nov-19 A	31-Jan-20 A			04-Nov-19	18-Dec-19	0	420	\$55,193.19	C
S315915		Steel Track Modifications - Inspection As-Builts and Punchlists Phys	189	100%	03-Feb-20 A	30-Oct-20 A			19-Dec-19	26-Dec-19	0	60	\$6,847.33	C
S315925		Steel Track Modifications - Inspection As-Builts and Punchlists CA-D	189	100%	03-Feb-20 A	30-Oct-20 A			19-Dec-19	26-Dec-19	0	60	\$8,835.90	C
S316000	016	Steel Track Modifications - Finish Track Work M&S	197	100%	15-Oct-20 A	30-Jul-21 A			15-Oct-20	21-Oct-20	20000	0	\$23,213.69	C
S316005		Steel Track Modifications - Finish Track Work Labor	197	100%	15-Oct-20 A	30-Jul-21 A			16-Jul-20	22-Jul-20	0	64	\$8,280.25	C
S316010		Completed - Steel Track Modifications	0	100%		28-Jul-21 A				21-Oct-20	0	0	\$0.00	C
POM02.02.03.02 Inner Detector Rings and Interface to Mechanical Structural Supports			1468		01-Feb-17 A	14-Dec-22	30-Nov-22	83	01-Feb-17	02-Jul-21	1491571	5261	\$2,285,962.66	
OBLG31771		Procure Internal Detector Structural Support - Obligation	1	100%	18-May-21 A	19-May-21 A			29-Jul-20	29-Jul-20	311667	0	\$311,666.50	C
OBLG31772	008C	Procure Magnet Support - Obligation	2	100%	01-Jul-21 A	05-Jul-21 A			22-Dec-20	22-Dec-20	56896	0	\$56,896.00	C
OBLG31774	008C	Procure TPC Support - Obligation	2	100%	01-Jul-21 A	05-Jul-21 A			11-Mar-21	11-Mar-21	56896	0	\$56,896.00	C
OBLG31775	008C	Procure INTT Support - Obligation	2	100%	01-Jul-21 A	05-Jul-21 A			25-Mar-21	25-Mar-21	56896	0	\$56,896.00	C
OBLG31776	008C	Procure MVTX Support - Obligation	2	100%	01-Jul-21 A	05-Jul-21 A			22-Apr-21	22-Apr-21	56896	0	\$56,896.00	C
OBLG31777	008C	Procure Large Support Rings - Obligation	1	100%	27-May-21 A	28-May-21 A			08-Oct-20	08-Oct-20	348205	0	\$348,205.00	C
S1001759	003	Actuals - NonLabor - sPHENIX Infrastructure FY19 M8 16731	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	5225	0	\$5,764.56	C
S1004920	003	Actuals - Labor FY19 Jun-Sep 16731	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	126	\$20,994.72	C
S316300		Analyze and Evaluate Structural Support for Internal Detectors FY18	288	100%	01-Feb-17 A	28-Mar-18 A			01-Feb-17	28-Mar-18	0	0	\$0.00	C
S316400	005	Analyze and Evaluate Structural Support for Internal Detectors FY19 - Physics	64	100%	01-Mar-19 A	31-May-19 A			01-Mar-19	31-May-19	0	0	\$0.00	C
S316405	005	Analyze and Evaluate Structural Support for Internal Detectors FY19 - Physics	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	0	\$0.00	C
S316406	005	Analyze and Evaluate Structural Support for Internal Detectors FY19 - Physics	187	100%	01-Nov-19 A	31-Jul-20 A			01-Oct-19	01-Nov-19	0	34	\$3,851.62	C
S316410	005	Analyze and Evaluate Structural Support for Internal Detectors FY19 - CA-D R	18	100%	03-Jun-19 A	27-Jun-19 A			01-Oct-19	05-Dec-19	0	0	\$0.00	C
S316500	005	Create Internal Detector Structural Support Assembly Drawings - Physics Res	20	100%	02-May-19 A	31-May-19 A			02-May-19	31-May-19	0	0	\$0.00	C
S316505	005	Create Internal Detector Structural Support Assembly Drawings - Physics Res	178	100%	13-May-20 A	29-Jan-21 A			06-Dec-19	06-Feb-20	0	48	\$5,477.86	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S316510	005	Create Internal Detector Structural Support Assembly Drawings - CA-D Resou	178	100%	13-May-20 A	29-Jan-21 A			06-Dec-19	04-Feb-20	0	64	\$9,424.96	C
S316600		Create Internal Detector Structural Support Detail Drawings - Physics Resourc	5	100%	11-Jan-21 A	18-Jan-21 A			07-Feb-20	20-Mar-20	0	50	\$5,877.29	C
S316610		Create Internal Detector Structural Support Detail Drawings - CA-D Resource(	5	100%	11-Jan-21 A	18-Jan-21 A			07-Feb-20	20-Mar-20	0	48	\$7,280.78	C
S316700		Review Internal Detector Structural Support Safety - Physics Resource(s)	7	100%	19-Jan-21 A	28-Jan-21 A			23-Mar-20	27-Mar-20	0	8	\$940.37	C
S316710		Review Internal Detector Structural Support Safety - CA-D Resource(s)	7	100%	19-Jan-21 A	28-Jan-21 A			23-Mar-20	27-Mar-20	0	8	\$1,213.46	C
S316800		Review Internal Detector Structural Support Design - Physics Resource(s)	7	100%	19-Jan-21 A	28-Jan-21 A			30-Mar-20	10-Apr-20	0	12	\$1,410.55	C
S316810		Review Internal Detector Structural Support Design - CA-D Resource(s)	7	100%	19-Jan-21 A	28-Jan-21 A			30-Mar-20	10-Apr-20	0	16	\$2,426.93	C
S316900		Address Action Items from Internal Detector Structural Support Design & Safet	19	100%	29-Jan-21 A	26-Feb-21 A			13-Apr-20	24-Apr-20	0	20	\$2,350.92	C
S316910		Address Action Items from Internal Detector Structural Support Design & Safet	19	100%	29-Jan-21 A	26-Feb-21 A			13-Apr-20	24-Apr-20	0	40	\$6,067.32	C
S317000		Design/Safety Reviews Complete, Internal Detector Structural Support Releas	0	100%		26-Feb-21 A				24-Apr-20	0	0	\$0.00	C
S317020	010	Create Magnet Supports Detailed Design Drawings	72	100%	15-Sep-20 A	30-Dec-20 A			17-Sep-20	29-Oct-20	0	520	\$67,758.51	C
S317021	008C	Review Design and Safety Magnet Supports	2	100%	01-Dec-20 A	02-Dec-20 A			30-Oct-20	02-Nov-20	0	8	\$1,042.44	C
S317022	008C	Address Action Items for Magnet Supports	58	100%	03-Dec-20 A	26-Feb-21 A			03-Nov-20	04-Nov-20	0	8	\$1,042.44	C
S317023	008C	Magnet Supports Released for Production (Milestone)	0	100%		26-Feb-21 A				04-Nov-20	0	0	\$0.00	C
S317030	010	Create EMCal Supports Detailed Design Drawings	13	100%	08-Oct-20 A	28-Oct-20 A			30-Oct-20	01-Dec-20	0	220	\$28,667.06	C
S317031	008C	Review Design and Safety EMCal Supports	13	100%	08-Oct-20 A	28-Oct-20 A			02-Dec-20	03-Dec-20	0	1	\$104.24	C
S317032	008C	Address Action Items for EMCal Supports	13	100%	08-Oct-20 A	28-Oct-20 A			04-Dec-20	07-Dec-20	0	1	\$104.24	C
S317033	008C	EMCal Supports Released for Production (Milestone)	0	100%		28-Oct-20 A				07-Dec-20	0	0	\$0.00	C
S317040	010	Create TPC Supports Detailed Design Drawings	298	100%	17-Nov-20 A	31-Jan-22 A			02-Dec-20	30-Dec-20	0	240	\$31,273.16	C
S317041	008C	Review Design and Safety TPC Supports	76	100%	22-Sep-21 A	14-Jan-22 A			31-Dec-20	07-Jan-21	0	16	\$2,147.42	C
S317042	008C	Address Action Items for TPC Supports	2	100%	14-Jan-22 A	18-Jan-22 A			08-Jan-21	11-Jan-21	0	16	\$2,147.42	C
S317043	008C	TPC Supports Released for Production (Milestone)	0	100%		18-Jan-22 A				11-Jan-21	0	0	\$0.00	C
S317050	010	Create INTT Supports Detailed Design Drawings	386	100%	13-May-20 A	30-Nov-21 A			31-Dec-20	29-Jan-21	0	200	\$26,060.96	C
S317051	008C	Review Design and Safety INTT Supports	56	100%	07-Sep-21 A	30-Nov-21 A			01-Feb-21	05-Feb-21	0	48	\$6,442.27	C
S317052	008C	Address Action Items for INTT Supports	6	100%	18-Nov-21 A	30-Nov-21 A			08-Feb-21	09-Feb-21	0	16	\$2,147.42	C
S317053	008C	INTT Supports Released for Production (Milestone)	0	100%		18-Jan-22 A				09-Feb-21	0	0	\$0.00	C
S317060	010	Create MVTX Supports Detailed Design Drawings	257	100%	19-May-20 A	28-May-21 A			01-Feb-21	01-Mar-21	0	200	\$26,060.96	C
S317061	008C	Review Design and Safety MVTX Supports	7	100%	21-Dec-20 A	31-Dec-20 A			02-Mar-21	08-Mar-21	0	16	\$2,084.88	C
S317062	008C	Address Action Items for MVTX Supports	7	100%	13-Jul-21 A	22-Jul-21 A			09-Mar-21	10-Mar-21	0	16	\$2,147.42	C
S317063	008C	MVTX Supports Released for Production (Milestone)	0	100%		22-Jul-21 A				10-Mar-21	0	0	\$0.00	C
S317070	010	Create MBD Supports Detailed Design Drawings	486	100%	18-May-20 A	28-Apr-22 A			02-Mar-21	15-Mar-21	0	140	\$18,242.67	C
S317071	008C	Review Design and Safety MBD Supports	16	100%	01-Apr-22 A	25-Apr-22 A			16-Mar-21	17-Mar-21	0	8	\$1,073.71	C
S317072	008C	Address Action Items for MBD Supports	18	100%	01-Apr-22 A	27-Apr-22 A			18-Mar-21	19-Mar-21	0	8	\$1,073.71	C
S317073	008C	MBD Supports Released for Production (Milestone)	0	100%		27-Apr-22 A				19-Mar-21	0	0	\$0.00	C
S317080	010	Create Large Support Rings Supports Detailed Design Drawings	125	100%	13-May-20 A	09-Nov-20 A			27-Apr-20	21-Jul-20	0	450	\$58,466.38	C
S317081	010	Review Design and Safety Large Support Rings Supports	10	100%	10-Nov-20 A	24-Nov-20 A			22-Jul-20	04-Aug-20	0	48	\$6,254.63	C
S317082	008C	Address Action Items for Large Support Rings Supports	44	100%	25-Nov-20 A	01-Feb-21 A			05-Aug-20	11-Aug-20	0	20	\$2,606.10	C
S317083	008C	Large Support Rings Supports Released for Production (Milestone)	0	100%		01-Feb-21 A				11-Aug-20	0	0	\$0.00	C
S317090	010	Create Beampipe Supports and Beampipe Detailed Design Drawings	490	100%	12-Mar-20 A	28-Feb-22 A			22-Jul-20	16-Sep-20	0	540	\$70,364.60	C
S317091	010	Review Design and Safety Beampipe Supports	1	100%	30-Mar-22 A	31-Mar-22 A			17-Sep-20	30-Sep-20	0	40	\$5,368.56	C
S317092	008C	Address Action Items for Beampipe Supports	18	100%	01-Apr-22 A	27-Apr-22 A			01-Oct-20	02-Oct-20	0	8	\$1,073.71	C
S317093	008C	Beampipe Supports Released for Production (Milestone)	0	100%		27-Apr-22 A				02-Oct-20	0	0	\$0.00	C
S317100	010	Prepare Procurement Package(s) for Inner HCal Support Tabs - Physics Reso	53	100%	15-Apr-21 A	30-Jun-21 A			27-Apr-20	08-Jun-20	0	48	\$5,642.20	C
S317110	010	Prepare Procurement Package(s) for Inner HCal Support Tabs - CA-D Resour	53	100%	15-Apr-21 A	30-Jun-21 A			27-Apr-20	08-Jun-20	0	120	\$18,201.95	C
S317120	008C	Prepare Procurement Package for Magnet Supports	7	100%	16-Mar-21 A	25-Mar-21 A			05-Nov-20	19-Nov-20	0	120	\$15,126.22	C

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S317130	008C	Prepare Procurement Package for EMCal Supports	6	100%	18-Feb-21 A	26-Feb-21 A			08-Dec-20	21-Dec-20	0	30	\$3,781.55	C
S317140	008C	Prepare Procurement Package for TPC Supports	28	100%	18-Jan-22 A	28-Feb-22 A			12-Jan-21	09-Feb-21	0	120	\$15,580.00	C
S317150	008C	Prepare Procurement Package for INTT Supports	28	100%	18-Jan-22 A	28-Feb-22 A			10-Feb-21	24-Feb-21	0	60	\$7,790.00	C
S317160	008C	Prepare Procurement Package for MVTX Supports	9	100%	18-Jan-22 A	31-Jan-22 A			11-Mar-21	24-Mar-21	0	60	\$7,790.00	C
S317170	008C	Prepare Procurement Package for MBD Supports	32	100%	13-Apr-22 A	27-May-22 A			22-Mar-21	02-Apr-21	0	30	\$3,895.00	C
S317180	008C	Prepare Procurement Package for Large Support Rings	40	100%	02-Feb-21 A	31-Mar-21 A			12-Aug-20	09-Sep-20	0	240	\$30,252.44	C
S317190	008C	Prepare Procurement Package for Beampipe Supports	39	100%	04-Apr-22 A	27-May-22 A			05-Oct-20	19-Oct-20	0	120	\$15,580.00	C
S317200	010	Evaluate & Process Bid for Inner HCal Support Tabs - Physics Resource(s)	16	100%	02-Jul-21 A	27-Jul-21 A			09-Jun-20	07-Jul-20	0	32	\$3,761.47	C
S317210	010	Evaluate & Process Bid for IHCal Support Tabs - CA-D Resource(s)	16	100%	02-Jul-21 A	27-Jul-21 A			09-Jun-20	07-Jul-20	0	32	\$4,853.85	C
S317220	008C	Evaluate and Process Bid for Magnet Supports	10	100%	03-May-21 A	17-May-21 A			20-Nov-20	21-Dec-20	0	40	\$5,212.19	C
S317230	008C	Evaluate and Process Bid for EMCal Supports	7	100%	16-Feb-21 A	25-Feb-21 A			22-Dec-20	21-Jan-21	0	20	\$2,606.10	C
S317240	008C	Evaluate and Process Bid for TPC Supports	28	100%	18-Jan-22 A	28-Feb-22 A			10-Feb-21	10-Mar-21	0	40	\$5,368.56	C
S317250	008C	Evaluate and Process Bid for INTT Supports	28	100%	18-Jan-22 A	28-Feb-22 A			25-Feb-21	24-Mar-21	0	40	\$5,368.56	C
S317260	008C	Evaluate and Process Bid for MVTX Supports	9	100%	18-Jan-22 A	31-Jan-22 A			25-Mar-21	21-Apr-21	0	40	\$5,368.56	C
S317270	008C	Evaluate and Process Bid for MBD Supports	45	100%	25-May-22 A	29-Jul-22 A			05-Apr-21	30-Apr-21	0	20	\$2,684.28	C
S317280	008C	Evaluate and Process Bid for Large Support Rings	7	100%	22-Mar-21 A	31-Mar-21 A			10-Sep-20	07-Oct-20	0	40	\$5,212.19	C
S317290	008C	Evaluate and Process Bid for Beampipe Supports	45	100%	25-May-22 A	29-Jul-22 A			20-Oct-20	17-Nov-20	0	40	\$5,368.56	C
S317300	008C	Procure & Deliver Internal Detector Structural Support (leadtime and fabricatio	17	100%	01-Nov-19 A	27-Nov-19 A			03-Jun-19	21-Nov-19	0	0	\$0.00	C
S317310		Procure & Deliver Internal Detector Structural Support (leadtime and fabricatio	18	100%	01-Nov-19 A	29-Nov-19 A			03-Jun-19	21-Nov-19	0	0	\$0.00	C
S317400		Procure IHCal Support Tabs - Provide Requirements to Procurement	5	100%	12-Jul-21 A	19-Jul-21 A			08-Jul-20	14-Jul-20	0	32	\$4,169.75	C
S317500	008C	Procure IHCal Support Tabs - Prepare and Send Solicitation	15	100%	01-Jul-21 A	23-Jul-21 A			15-Jul-20	21-Jul-20	0	0	\$0.00	C
S317600		Procure IHCal Support Tabs - Vendor Response and Selection	15	100%	01-Jul-21 A	23-Jul-21 A			22-Jul-20	28-Jul-20	0	32	\$4,169.75	C
S317700		Procure IHCal Support Tabs - Contract Award	0	100%	27-Jul-21 A				29-Jul-20		0	0	\$0.00	C
S317800	028	Procure IHCal Support Tabs - Leadtime	18	100%	01-Sep-21 A	28-Sep-21 A			30-Jul-20	23-Nov-20	0	0	\$0.00	C
S317900		Procure IHCal Support Tabs - Delivery Acceptance	15	100%	06-Sep-21 A	28-Sep-21 A			24-Nov-20	02-Dec-20	45850	0	\$54,281.72	C
S317910		Completed - Procure IHCal Structural Support - Delivery Acceptance	0	100%		28-Sep-21 A				02-Dec-20	0	0	\$0.00	C
S317920	008C	Procure Magnet Supports - M&S	80	100%	10-May-21 A	31-Aug-21 A			23-Dec-20	22-Feb-21	50000	0	\$58,034.22	C
S317930	008C	Procure EMCal Supports - M&S	4	100%	22-Feb-21 A	26-Feb-21 A			22-Jan-21	19-Mar-21	18040	0	\$20,938.74	C
S317940	008C	Procure TPC Supports - M&S	168	85%	31-Mar-22 A	30-Nov-22	30-Nov-22	8	12-Mar-21	06-May-21	50000	0	\$59,194.90	C
S317950	008C	Procure INTT Supports - M&S	107	100%	31-Mar-22 A	31-Aug-22 A			26-Mar-21	20-May-21	50000	0	\$59,194.90	C
S317960	008C	Procure MVTX Supports - M&S	9	100%	14-Feb-22 A	28-Feb-22 A			23-Apr-21	18-Jun-21	50000	0	\$59,194.90	C
S317970	008C	Procure MBD Supports - M&S	82	100%	01-Jul-22 A	28-Oct-22 A			03-May-21	28-May-21	10000	0	\$11,838.98	C
S317980	008C	Procure Large Support Rings - M&S	137	100%	15-Apr-21 A	29-Oct-21 A			09-Oct-20	08-Feb-21	300000	0	\$348,205.29	C
S317990	008C	Procure Beampipe Supports - M&S	63	100%	01-Jul-22 A	30-Sep-22 A			18-Nov-20	17-Dec-20	25000	0	\$29,597.45	C
S318000	010	Perform Inner HCal Support Tabs Acceptance - Physics Resource(s)	11	100%	14-Sep-21 A	29-Sep-21 A			03-Dec-20	08-Jan-21	0	28	\$3,390.02	C
S318010	010	Perform Inner HCal Support Tabs Acceptance - CA-D Resource(s)	11	100%	14-Sep-21 A	29-Sep-21 A			03-Dec-20	08-Jan-21	0	16	\$2,499.74	C
S318100	010	Inner HCal Support Tabs Components Ready for Installation	0	100%		29-Sep-21 A				08-Jan-21	0	0	\$0.00	C
S318120	008C	Perform Magnet Supports Acceptance	10	100%	01-Sep-21 A	15-Sep-21 A			23-Feb-21	08-Mar-21	0	40	\$4,957.01	C
S318130	008C	Perform EMCal Supports Acceptance	3	100%	23-Feb-21 A	26-Feb-21 A			22-Mar-21	02-Apr-21	0	20	\$2,478.51	C
S318140	008C	Perform TPC Supports Acceptance	10	0%	01-Dec-22	14-Dec-22		8	07-May-21	20-May-21	0	80	\$10,211.45	C
S318150	008C	Perform INTT Supports Acceptance	20	100%	03-Aug-22 A	31-Aug-22 A			21-May-21	04-Jun-21	0	40	\$5,258.89	C
S318160	008C	Perform MVTX Supports Acceptance	9	100%	14-Feb-22 A	28-Feb-22 A			21-Jun-21	02-Jul-21	0	40	\$5,105.72	C
S318170	008C	Perform MBD Supports Acceptance	18	100%	03-Oct-22 A	28-Oct-22 A			01-Jun-21	14-Jun-21	0	20	\$2,629.45	C
S318180	008C	Perform Large Support Rings Acceptance	4	100%	18-Oct-21 A	22-Oct-21 A			09-Feb-21	09-Mar-21	0	120	\$15,054.33	C
S318182	008C	Assemble Large Support Rings	19	100%	25-Oct-21 A	22-Nov-21 A			10-Mar-21	06-Apr-21	0	160	\$21,303.67	C

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S318190	008C	Perform Beampipe Supports Acceptance	35	10%	26-Sep-22 A	15-Nov-22	15-Nov-22	65	18-Dec-20	04-Jan-21	0	80	\$10,517.79	C
POM02.02.03.03 Barrel Steel			667		01-Feb-17 A	30-Sep-19 A			01-Feb-17	20-Feb-20	5424446	1793	\$6,296,163.65	
OBLG3195C		Procure Outer HCAL Mechanical Structure Components - Obligation (Raw Ma	0	100%	21-Apr-17 A	21-Apr-17 A			21-Apr-17	21-Apr-17	0	0	\$0.00	C
S1000439	003	Actuals - Labor - sPHENIX Infrastructure FY17 16722	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	94	\$15,648.25	C
S1000599	003	Actuals - Labor - sPHENIX Infrastructure FY18 16722	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	1009	\$168,591.72	C
S1001559	003	Actuals - Labor - sPHENIX Infrastructure FY19 M8 16722	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	691	\$115,387.67	C
S1001599	003	Actuals - NonLabor - sPHENIX Infrastructure FY19 M8 16722	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	3505619	0	\$3,867,626.92	C
S1004840	003	Actuals - NonLabor FY19 Jun-Sep 16722	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	03-Jun-19	952324	0	\$1,050,666.17	C
S309500	003	Actuals - Nonlabor - sPHENIX Infrastructure FY18 16722	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	966502	0	\$1,078,242.93	C
S318200		Outer HCAL Sector Mechanical Structure production and assembly - Provide F	0	100%	01-Feb-17 A	01-Feb-17 A			01-Feb-17	01-Feb-17	0	0	\$0.00	C
S318300		Final Mechanical Design of Outer HCAL Sector	98	100%	05-Sep-17 A	30-Jan-18 A			05-Sep-17	30-Jan-18	0	0	\$0.00	C
S318400		Internal Review of Outer HCAL Sector Mechanical Design	1	100%	31-Jan-18 A	01-Feb-18 A			31-Jan-18	01-Feb-18	0	0	\$0.00	C
S318500		Address Issues from Internal Review of Outer HCAL Sector Mechanical Design	20	100%	02-Feb-18 A	03-Mar-18 A			02-Feb-18	03-Mar-18	0	0	\$0.00	C
S318600		Outer HCAL Sector Mechanical Design Complete	0	100%		30-Mar-18 A				30-Mar-18	0	0	\$0.00	C
S318700		Internal Review of Outer HCAL Lifting Fixture and Supports	9	100%	31-Jan-18 A	13-Feb-18 A			31-Jan-18	13-Feb-18	0	0	\$0.00	C
S318800		Address Issues from Internal Review of Outer HCAL Lifting Fixture and Suppo	29	100%	14-Feb-18 A	28-Mar-18 A			14-Feb-18	28-Mar-18	0	0	\$0.00	C
S318900		Outer HCAL Lifting Fixture and Supports Design Complete	0	100%		28-Mar-18 A				28-Mar-18	0	0	\$0.00	C
S319000		Procure Outer HCAL Lifting Fixture and Supports - Provide BNL Central Shops	66	100%	29-Mar-18 A	02-Jul-18 A			29-Mar-18	02-Jul-18	0	0	\$0.00	C
S319100		Procure Outer HCAL Lifting Fixture and Supports - Delivery Acceptance	51	100%	03-Jul-18 A	14-Sep-18 A			03-Jul-18	14-Sep-18	0	0	\$0.00	C
S319200		Procure Outer HCAL Mechanical Structure Components - Prepare & Send Sol	29	100%	02-Feb-17 A	16-Mar-17 A			02-Feb-17	16-Mar-17	0	0	\$0.00	C
S319300		Procure Outer HCAL Mechanical Structure Components - Vendor Responses	9	100%	17-Mar-17 A	30-Mar-17 A			17-Mar-17	30-Mar-17	0	0	\$0.00	C
S319400		Procure Outer HCAL Mechanical Structure Components - Vendor Selection	13	100%	31-Mar-17 A	19-Apr-17 A			31-Mar-17	19-Apr-17	0	0	\$0.00	C
S319500		Procure Outer HCAL Mechanical Structure Components - Contract Award (Ra	0	100%	21-Apr-17 A				21-Apr-17		0	0	\$0.00	C
S319600		Procure Outer HCAL Mechanical Structure Components - Contract Award (Firs	0	100%	03-Aug-17 A				03-Aug-17		0	0	\$0.00	C
S319700		Procure Outer HCAL Mechanical Structure Components - Lead Time (First Arti	26	100%	03-Aug-17 A	09-Sep-17 A			03-Aug-17	09-Sep-17	0	0	\$0.00	C
S319800		Design and procure Outer HCAL acceptance testing tooling Labor	86	100%	01-May-18 A	31-Aug-18 A			01-May-18	31-Aug-18	0	0	\$0.00	C
S319900		Design and procure Outer HCAL acceptance testing tooling - M&S	86	100%	01-May-18 A	31-Aug-18 A			01-May-18	31-Aug-18	0	0	\$0.00	C
S320000		Outer HCAL Sector Mechanical Structure First Article Acceptance Testing	20	100%	10-Sep-18 A	08-Oct-18 A			10-Sep-18	08-Oct-18	0	0	\$0.00	C
S320100		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (First Ar	40	100%	10-Sep-17 A	07-Nov-17 A			10-Sep-17	07-Nov-17	0	0	\$0.00	C
S320200		Procure Outer HCAL Mechanical Structure Components - Vendor purchases r.	14	100%	19-Apr-18 A	09-May-18 A			19-Apr-18	09-May-18	0	0	\$0.00	C
S320300		Procure Outer HCAL Mechanical Structure Components - Payment for purcha:	0	100%	10-May-18 A	10-May-18 A			10-May-18	10-May-18	0	0	\$0.00	C
S320400		Procure Outer HCAL Mechanical Structure Components - Lead Time	86	100%	14-May-18 A	14-Sep-18 A			14-May-18	14-Sep-18	0	0	\$0.00	C
S320500		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	21-Sep-18 A	28-Sep-18 A			21-Sep-18	28-Sep-18	0	0	\$0.00	C
S320600		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	26-Oct-18 A	02-Nov-18 A			26-Oct-18	02-Nov-18	0	0	\$0.00	C
S320700	003	Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	28	100%	02-Nov-18 A	17-Dec-18 A			02-Nov-18	17-Dec-18	0	0	\$0.00	C
S320800	003	Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	4	100%	09-Nov-18 A	16-Nov-18 A			09-Nov-18	16-Nov-18	0	0	\$0.00	C
S320900		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	4	100%	16-Nov-18 A	23-Nov-18 A			16-Nov-18	23-Nov-18	0	0	\$0.00	C
S321000	003	Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	0	100%	30-Nov-18 A	30-Nov-18 A			30-Nov-18	30-Nov-18	0	0	\$0.00	C
S321100		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	02-Jan-19 A	09-Jan-19 A			02-Jan-19	09-Jan-19	0	0	\$0.00	C
S321200		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	09-Jan-19 A	16-Jan-19 A			09-Jan-19	16-Jan-19	0	0	\$0.00	C
S321300		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	4	100%	16-Jan-19 A	23-Jan-19 A			16-Jan-19	23-Jan-19	0	0	\$0.00	C
S321400		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	05-Feb-19 A	12-Feb-19 A			05-Feb-19	12-Feb-19	0	0	\$0.00	C
S321500		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	4	100%	12-Feb-19 A	19-Feb-19 A			12-Feb-19	19-Feb-19	0	0	\$0.00	C
S321600		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	19-Feb-19 A	26-Feb-19 A			19-Feb-19	26-Feb-19	0	0	\$0.00	C
S321700		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	08-Feb-19 A	15-Feb-19 A			08-Feb-19	15-Feb-19	0	0	\$0.00	C

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S321800		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	7	100%	15-Feb-19 A	27-Feb-19 A			15-Feb-19	27-Feb-19	0	0	\$0.00	C
S321900		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	12	100%	15-Feb-19 A	05-Mar-19 A			15-Feb-19	05-Mar-19	0	0	\$0.00	C
S322000		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	10	100%	01-Mar-19 A	15-Mar-19 A			01-Mar-19	15-Mar-19	0	0	\$0.00	C
S322100		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	08-Mar-19 A	15-Mar-19 A			08-Mar-19	15-Mar-19	0	0	\$0.00	C
S322200		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	12	100%	15-Mar-19 A	02-Apr-19 A			15-Mar-19	02-Apr-19	0	0	\$0.00	C
S322300		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	8	100%	21-Mar-19 A	02-Apr-19 A			21-Mar-19	02-Apr-19	0	0	\$0.00	C
S322400		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	12	100%	29-Mar-19 A	16-Apr-19 A			29-Mar-19	16-Apr-19	0	0	\$0.00	C
S322500		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	10	100%	05-Apr-19 A	19-Apr-19 A			05-Apr-19	19-Apr-19	0	0	\$0.00	C
S322600		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	26	100%	12-Apr-19 A	20-May-19 A			12-Apr-19	20-May-19	0	0	\$0.00	C
S322700		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	13	100%	19-Apr-19 A	08-May-19 A			19-Apr-19	08-May-19	0	0	\$0.00	C
S322800		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	9	100%	03-May-19 A	16-May-19 A			03-May-19	16-May-19	0	0	\$0.00	C
S322900		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	4	100%	10-May-19 A	16-May-19 A			10-May-19	16-May-19	0	0	\$0.00	C
S323000		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	5	100%	17-May-19 A	24-May-19 A			17-May-19	24-May-19	0	0	\$0.00	C
S323100		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	2	100%	03-Jun-19 A	04-Jun-19 A			03-Jun-19	04-Jun-19	0	0	\$0.00	C
S323200		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	6	100%	14-Jun-19 A	21-Jun-19 A			14-Jun-19	21-Jun-19	0	0	\$0.00	C
S323300		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Sector	6	100%	21-Jun-19 A	28-Jun-19 A			21-Jun-19	28-Jun-19	0	0	\$0.00	C
S323400		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Chimn	6	100%	01-Jul-19 A	09-Jul-19 A			28-Jun-19	08-Jul-19	0	0	\$0.00	C
S323500		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Chimn	5	100%	09-Jul-19 A	15-Jul-19 A			08-Jul-19	12-Jul-19	0	0	\$0.00	C
S323600		Procure Outer HCAL Mechanical Structure Components - Del. Accept. (Chimn	6	100%	22-Jul-19 A	29-Jul-19 A			19-Jul-19	26-Jul-19	0	0	\$0.00	C
S323700		Outer HCAL Sector Mechanical Structure Acceptance Testing FY18	3	100%	26-Oct-18 A	31-Oct-18 A			26-Oct-18	31-Oct-18	0	0	\$0.00	C
S323800		Outer HCAL Sector Mechanical Structure Acceptance Testing FY19	21	100%	01-Jul-19 A	31-Jul-19 A			03-Jun-19	20-Feb-20	0	0	\$0.00	C
S323900		Completion of Outer HCAL Sector Mechanical Structure Procurement	0	100%		03-Sep-19 A				20-Feb-20	0	0	\$0.00	C
POM02.02.03.04 End Caps/ Pole Tips			577		01-Nov-19 A	28-Feb-22 A			01-Nov-19	25-Aug-21	1605954	2670	\$2,067,332.68	
OBLG32521		End Caps/ Pole Tips - Obligation	1	100%	30-Aug-21 A	31-Aug-21 A			04-Sep-20	04-Sep-20	715692	0	\$715,691.99	C
S324000		End Caps/ Pole Tips - Engineering & Analysis (includes drive system) - Physic	101	100%	01-Nov-19 A	31-Mar-20 A			01-Nov-19	24-Dec-19	0	70	\$7,988.55	C
S324010		End Caps/ Pole Tips - Engineering & Analysis (includes drive system) - CA-D	101	100%	01-Nov-19 A	31-Mar-20 A			01-Nov-19	24-Dec-19	0	450	\$67,140.98	C
S324100		End Caps/ Pole Tips - Design Controls for Drive System - Physics Resource(s)	188	100%	01-Apr-20 A	30-Dec-20 A			26-Dec-19	16-Jan-20	0	180	\$22,028.47	C
S324110		End Caps/ Pole Tips - Design Controls for Drive System - CA-D Resource(s)	188	100%	01-Apr-20 A	30-Dec-20 A			26-Dec-19	16-Jan-20	0	60	\$6,847.33	C
S324200		End Caps/ Pole Tips - Assembly & Detail Drawing - Physics Resource(s)	137	100%	01-Apr-20 A	14-Oct-20 A			26-Dec-19	30-Mar-20	0	312	\$37,793.14	C
S324210		End Caps/ Pole Tips - Assembly & Detail Drawing - CA-D Resource(s)	137	100%	01-Apr-20 A	14-Oct-20 A			26-Dec-19	30-Mar-20	0	610	\$84,727.13	C
S324300		End Caps/ Pole Tips - Final Design Reviews (Design & Safety) - Physics Resi	15	100%	01-Apr-20 A	21-Apr-20 A			31-Mar-20	06-Apr-20	0	24	\$2,970.87	C
S324310		End Caps/ Pole Tips - Final Design Reviews (Design & Safety) - CA-D Resou	15	100%	01-Apr-20 A	21-Apr-20 A			31-Mar-20	06-Apr-20	0	80	\$11,574.30	C
S324400		End Caps/ Pole Tips - Address Action Items from Design & Safety Reviews - P	146	100%	01-Apr-20 A	28-Oct-20 A			07-Apr-20	20-Apr-20	0	48	\$5,477.86	C
S324410		End Caps/ Pole Tips - Address Action Items from Design & Safety Reviews - C	146	100%	01-Apr-20 A	28-Oct-20 A			07-Apr-20	20-Apr-20	0	100	\$13,856.75	C
S324500		End Caps/ Pole Tips - Design & Safety Reviews Complete Released for Prodt	0	100%		30-Oct-20 A				20-Apr-20	0	0	\$0.00	C
S324600	003	End Caps/ Pole Tips - Prepare Procurement Package(s) - Physics Resource(s)	166	100%	01-Apr-20 A	30-Nov-20 A			21-Apr-20	19-May-20	0	120	\$13,694.66	C
S324610	003	End Caps/ Pole Tips - Prepare Procurement Package(s) - CA-D Resource(s)	166	100%	01-Apr-20 A	30-Nov-20 A			21-Apr-20	19-May-20	0	176	\$22,306.27	C
S324700	003	End Caps/ Pole Tips - Procurement Readiness Review - Physics Resource(s)	2	100%	21-Dec-20 A	23-Dec-20 A			20-May-20	27-May-20	0	44	\$5,172.02	C
S324710	003	End Caps/ Pole Tips - Procurement Readiness Review - CA-D Resource(s)	2	100%	21-Dec-20 A	23-Dec-20 A			20-May-20	27-May-20	0	60	\$8,793.95	C
S324800		End Caps/ Pole Tips - Provide Requirement to Procurement	5	100%	15-Dec-20 A	22-Dec-20 A			28-May-20	03-Jun-20	0	16	\$2,802.64	C
S324900		End Caps/ Pole Tips - Prepare & Send Solicitation	5	100%	04-Jan-21 A	08-Jan-21 A			04-Jun-20	10-Jun-20	0	0	\$0.00	C
S325000		End Caps/ Pole Tips - Vendor Responses - Physics Resource(s)	12	100%	11-Jan-21 A	28-Jan-21 A			11-Jun-20	23-Jul-20	0	10	\$1,175.46	C
S325010		End Caps/ Pole Tips - Vendor Responses - CA-D Resource(s)	12	100%	11-Jan-21 A	28-Jan-21 A			11-Jun-20	23-Jul-20	0	42	\$6,405.02	C
S325100		End Caps/ Pole Tips - Vendor Selection - Physics Resource(s)	20	100%	29-Jan-21 A	26-Feb-21 A			24-Jul-20	03-Sep-20	0	10	\$1,175.46	C
S325110		End Caps/ Pole Tips - Vendor Selection - CA-D Resource(s)	20	100%	29-Jan-21 A	26-Feb-21 A			24-Jul-20	03-Sep-20	0	42	\$6,405.02	C

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S325200		End Caps/ Pole Tips - Contract Award(s)	0	100%	26-Feb-21 A				04-Sep-20		0	0	\$0.00	C
S325300	012	End Caps/ Pole Tips - Contract lead Time	246	100%	26-Feb-21 A	21-Feb-22 A			08-Sep-20	27-May-21	0	0	\$0.00	C
S325400	023	End Caps/ Pole Tips - Delivery Acceptance	3	100%	15-Feb-22 A	18-Feb-22 A			19-Aug-21	25-Aug-21	890262	0	\$993,188.32	C
S325410		Completed - End Caps/ Pole Tips - Delivery Acceptance	0	100%		25-Feb-22 A				25-Aug-21	0	0	\$0.00	C
S325500	003	End Caps/ Pole Tips - Delivery Acceptance Support Labor - Physics Resource	1	100%	25-Feb-22 A	28-Feb-22 A			28-May-21	11-Jun-21	0	84	\$10,170.06	C
S325510	003	End Caps/ Pole Tips - Delivery Acceptance Support Labor - CA-D Resource(s)	1	100%	25-Feb-22 A	28-Feb-22 A			28-May-21	11-Jun-21	0	132	\$19,946.43	C
S325600		End Caps/ Pole Tips - Ready for Installation	0	100%		28-Feb-22 A				25-Aug-21	0	0	\$0.00	C
POM02.02.03.05 CC Bridge, Mid Platforms and Access			620		01-Nov-19 A	28-Apr-22 A			03-Jun-19	31-Jan-22	779305	3162	\$1,269,626.84	
F317050		CC Bridge, Mid Platforms & Access - Prepare & Send Solicitation	3	100%	22-Feb-21 A	25-Feb-21 A					0	0	\$0.00	C
OBLG32681		CC Bridge, Mid Platforms & Access - Obligation	7	100%	17-May-21 A	26-May-21 A			17-Mar-21	17-Mar-21	379627	0	\$379,627.45	C
S325700		CC Bridge, Mid Platforms & Access - Engineering Analysis - Physics Resource	101	100%	01-Nov-19 A	31-Mar-20 A			21-Apr-20	16-Jun-20	0	160	\$18,259.54	C
S325710		CC Bridge, Mid Platforms & Access - Engineering Analysis - CA-D Resource(s)	101	100%	01-Nov-19 A	31-Mar-20 A			21-Apr-20	16-Jun-20	0	640	\$92,594.44	C
S325800	005	CC Bridge, Mid Platforms & Access - Assembly & Detail Drawings - Physics R	208	100%	01-Apr-20 A	29-Jan-21 A			17-Jun-20	08-Oct-20	0	352	\$40,170.99	C
S325810		CC Bridge, Mid Platforms & Access - Assembly & Detail Drawings - CA-D Res	208	100%	01-Apr-20 A	29-Jan-21 A			17-Jun-20	08-Oct-20	0	800	\$110,853.98	C
S325900		CC Bridge, Mid Platforms & Access - Final Design Reviews (Design & Safety)	147	100%	01-Apr-20 A	28-Oct-20 A			09-Oct-20	23-Oct-20	0	48	\$5,477.86	C
S325910		CC Bridge, Mid Platforms & Access - Final Design Reviews (Design & Safety)	147	100%	01-Apr-20 A	28-Oct-20 A			09-Oct-20	23-Oct-20	0	100	\$13,856.75	C
S326000		CC Bridge, Mid Platforms & Access - Address Action Items from Design & Saf	147	100%	01-Apr-20 A	29-Oct-20 A			26-Oct-20	06-Nov-20	0	48	\$5,477.86	C
S326010		CC Bridge, Mid Platforms & Access - Address Action Items from Design & Saf	147	100%	01-Apr-20 A	29-Oct-20 A			26-Oct-20	06-Nov-20	0	100	\$13,856.75	C
S326100		CC Bridge, Mid Platforms & Access - Design & Safety Reviews Complete Rel	0	100%		30-Oct-20 A				06-Nov-20	0	0	\$0.00	C
S326200	003	CC Bridge, Mid Platforms & Access - Prepare Procurement Package(s) - Phys	11	100%	29-Jan-21 A	12-Feb-21 A			09-Nov-20	23-Nov-20	0	104	\$12,224.76	C
S326210	003	CC Bridge, Mid Platforms & Access - Prepare Procurement Package(s) - CA-C	11	100%	29-Jan-21 A	12-Feb-21 A			09-Nov-20	23-Nov-20	0	136	\$18,273.62	C
S326300	003	CC Bridge, Mid Platforms & Access - Procurement Readiness Review - Physic	5	100%	16-Feb-21 A	22-Feb-21 A			24-Nov-20	02-Dec-20	0	44	\$5,172.02	C
S326310	003	CC Bridge, Mid Platforms & Access - Procurement Readiness Review - CA-D	5	100%	16-Feb-21 A	22-Feb-21 A			24-Nov-20	02-Dec-20	0	60	\$8,793.95	C
S326400		CC Bridge, Mid Platforms & Access - Provide Requirement to Procurement	3	100%	23-Feb-21 A	26-Feb-21 A			03-Dec-20	09-Dec-20	0	16	\$2,802.64	C
S326600		CC Bridge, Mid Platforms & Access - Vendor Responses - Physics Resource(:	27	100%	15-Mar-21 A	21-Apr-21 A			17-Dec-20	01-Feb-21	0	60	\$7,052.75	C
S326610		CC Bridge, Mid Platforms & Access - Vendor Responses - CA-D Resource(s)	27	100%	15-Mar-21 A	21-Apr-21 A			17-Dec-20	01-Feb-21	0	84	\$10,881.00	C
S326700		CC Bridge, Mid Platforms & Access - Vendor Selection - Physics Resource(s)	6	100%	14-Jun-21 A	22-Jun-21 A			02-Feb-21	16-Mar-21	0	84	\$9,873.85	C
S326710		CC Bridge, Mid Platforms & Access - Vendor Selection - CA-D Resource(s)	6	100%	14-Jun-21 A	22-Jun-21 A			02-Feb-21	16-Mar-21	0	92	\$12,282.32	C
S326800		CC Bridge, Mid Platforms & Access - Contract Award(s)	0	100%	23-Jun-21 A				17-Mar-21		0	0	\$0.00	C
S326900	003	CC Bridge, Mid Platforms & Access - BNL Oversight - Physics Resource(s)	154	100%	16-Aug-21 A	31-Mar-22 A			18-Mar-21	23-Jul-21	0	108	\$12,981.70	C
S326910	003	CC Bridge, Mid Platforms & Access - BNL Oversight - CA-D Resource(s)	154	100%	16-Aug-21 A	31-Mar-22 A			18-Mar-21	23-Jul-21	0	126	\$19,007.44	C
S327000		CC Bridge, Mid Platforms & Access - Vendor Leadtime	143	100%	31-Aug-21 A	31-Mar-22 A			18-Mar-21	23-Jul-21	0	0	\$0.00	C
S327100	027	CC Bridge, Mid Platforms & Access - Delivery Acceptance	44	100%	25-Feb-22 A	28-Apr-22 A			01-Dec-21	14-Dec-21	354678	0	\$419,902.57	C
S327110		Completed - CC Bridge, Mid Platforms & Access - Delivery Acceptance	0	100%		28-Apr-22 A				14-Dec-21	0	0	\$0.00	C
S327150	024	Access stairs for upper platforms	87	100%	23-Aug-21 A	30-Dec-21 A			01-Jun-21	31-Jan-22	45000	0	\$50,202.61	C
S327200	027	Deleted CC Bridge, Mid Platforms & Access - Delivery Acceptance Support La	1	100%	01-Jun-21 A	02-Jun-21 A			03-Jun-19	14-Jun-19	0	0	\$0.00	C
S327210	027	Deleted CC Bridge, Mid Platforms & Access - Delivery Acceptance Support La	1	100%	01-Jun-21 A	02-Jun-21 A			03-Jun-19	14-Jun-19	0	0	\$0.00	C
S327300		CC Bridge, Mid Platforms & Access - Ready for Installation	0	100%		28-Apr-22 A				14-Dec-21	0	0	\$0.00	C
POM02.02.04 Infrastructure			1506		01-Feb-17 A	09-Feb-23	09-Feb-23	45	01-Feb-17	07-Oct-22	2176208	19302	\$4,920,824.72	
POM02.02.04.01 Infrastructure Detector Support Systems			1506		01-Feb-17 A	09-Feb-23	09-Feb-23	45	01-Feb-17	30-Sep-22	671422	12794	\$2,448,524.05	
S1000479	003	Actuals - Labor - sPHENIX Infrastructure FY17 16723	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	103	\$17,157.10	C
S1000639	003	Actuals - Labor - sPHENIX Infrastructure FY18 16723	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	124	\$20,716.18	C
S1001639	003	Actuals - Labor - sPHENIX Infrastructure FY19 M8 16723	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	313	\$52,365.24	C
S1004960	003	Actuals - Labor FY19 Jun-Sep 16723	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	126	\$21,123.22	C
POM02.02.04.01.01 Line Electric Power Distribution			1149		01-Mar-18 A	30-Sep-22 A			01-Mar-18	30-Sep-22	108034	1220	\$292,803.36	

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OBLG3289		Procure Line Electric Power Distribution Components - Obligation	5	100%	06-Jul-21 A	13-Jul-21 A			17-May-21	17-May-21	58034	0	\$58,034.23	C
S1001999		Calculate Power Transformer Requirements for Line Electric Power - Physics I	14	100%	09-Jan-20 A	30-Jan-20 A			11-Jun-20	14-Aug-20	0	80	\$10,455.49	C
S1002039		Size Conductors for Line Electric Power - Physics Resource(s)	31	100%	17-Aug-20 A	30-Sep-20 A			17-Aug-20	26-Aug-20	0	64	\$8,364.39	C
S1002079		Create Line Electric Distribution Design/Schematic Drawings for Line Electric	145	100%	27-Aug-20 A	31-Mar-21 A			27-Aug-20	08-Sep-20	0	64	\$8,364.39	C
S1002119		Review Line Electric Distribution Design/Safety - Physics Resource(s)	7	100%	17-Nov-20 A	27-Nov-20 A			09-Sep-20	22-Sep-20	0	20	\$3,033.66	C
S277600	025	2022 Detector Support Systems L3 Project Management	249	100%	01-Oct-21 A	30-Sep-22 A			01-Oct-21	30-Sep-22	0	352	\$63,660.23	C
S327400		Evaluate Existing Power Distribution System for Line Electric Power	64	100%	01-Mar-18 A	31-May-18 A			01-Mar-18	31-May-18	0	0	\$0.00	C
S327500	003,005	Gather Design Requirements for All sPHENIX Subsystems for Line Electric Pc	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S327501	010	Gather Power Reqs for CRYO, Cooling and Lighting	1	100%	30-Mar-20 A	31-Mar-20 A			01-Apr-20	27-May-20	0	60	\$7,342.82	C
S327502	003,005	Gather Design Requirements for All sPHENIX Subsystems for Line Electric Pc	30	100%	01-Nov-19 A	18-Dec-19 A			01-Apr-20	27-May-20	0	40	\$5,060.38	C
S327600		Evaluate Normal, Emergency and UPS Load Requirements for Line Electric P	5	100%	02-Jan-20 A	08-Jan-20 A			28-May-20	10-Jun-20	0	20	\$2,530.19	C
S327700		Calculate Power Transformer Requirements for Line Electric Power - CA-D Re	14	100%	09-Jan-20 A	30-Jan-20 A			11-Jun-20	14-Aug-20	0	32	\$4,182.19	C
S327800	010	Size Conductors for Line Electric Power - CA-D Resource(s)	31	100%	17-Aug-20 A	30-Sep-20 A			17-Aug-20	26-Aug-20	0	32	\$4,182.19	C
S327900	010	Create Line Electric Distribution Design/Schematic Drawings for Line Electric	145	100%	27-Aug-20 A	31-Mar-21 A			27-Aug-20	08-Sep-20	0	64	\$8,364.39	C
S328000	010	Review Line Electric Distribution Design/Safety - CA-D Resource(s)	7	100%	17-Nov-20 A	27-Nov-20 A			09-Sep-20	22-Sep-20	0	24	\$3,640.39	C
S328100	010	Address Action Items from Line Electric Distribution Design & Safety Reviews	7	100%	17-Nov-20 A	27-Nov-20 A			23-Sep-20	21-Oct-20	0	100	\$12,009.76	C
S328200	010	Design/Safety Reviews Complete, Line Electric Power Distribution Released f	0	100%		01-Apr-21 A				21-Oct-20	0	0	\$0.00	C
S328500	010	Procure Line Electric Power Distribution Components - Provide Requirements	21	100%	01-Apr-21 A	30-Apr-21 A			22-Oct-20	21-Jan-21	0	48	\$6,254.63	C
S328550	010	Prepare Line Electric Power Distribution Components Procurement Package(s)	21	100%	01-Apr-21 A	30-Apr-21 A			22-Oct-20	21-Jan-21	0	60	\$7,818.29	C
S328700	010	Procure Line Electric Power Distribution Components - Prepare and Send Sol	56	100%	10-May-21 A	29-Jul-21 A			22-Jan-21	19-Feb-21	0	0	\$0.00	C
S328800	010	Procure Line Electric Power Distribution Components - Vendor Responses an	18	100%	02-Jul-21 A	29-Jul-21 A			22-Feb-21	14-May-21	0	0	\$0.00	C
S328850	010	Evaluate & Process Line Electric Power Distribution Components Bid	18	100%	02-Jul-21 A	29-Jul-21 A			22-Feb-21	14-May-21	0	40	\$5,256.50	C
S328900	010	Procure Line Electric Power Distribution Components - Contract Award	0	100%	29-Jul-21 A				17-May-21		0	0	\$0.00	C
S329000	010	Procure Line Electric Power Distribution Components - Leadtime	62	100%	02-Aug-21 A	29-Oct-21 A			17-May-21	10-Aug-21	0	0	\$0.00	C
S329100	010	Procure Line Electric Power Distribution Components - Delivery Acceptance	120	100%	06-Dec-21 A	27-May-22 A			11-Aug-21	08-Sep-21	50000	0	\$59,194.90	C
S329200	010	Perform Line Electric Power Distribution Components Acceptance	110	100%	20-Dec-21 A	27-May-22 A			11-Aug-21	08-Sep-21	0	120	\$15,054.33	C
S329300	010	Line Electric Power Distribution Components Ready for Installation	0	100%		27-May-22 A				08-Sep-21	0	0	\$0.00	C
POM02.02.04.01.02 Detector Support Services Systems (including Cables, Fibers, Cable Trays)			872		02-Jan-19 A	27-Jun-22 A			02-Jan-19	15-Feb-22	54000	2893	\$430,787.59	
S329400	003	Analyze Detector Support Services Systems Requirements	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S1002199	003	Analyze Detector Support Services Systems Requirements Split - Physics Re	209	100%	01-Oct-19 A	31-Jul-20 A			01-Oct-19	04-Feb-20	0	110	\$15,121.58	C
S329405	003	Analyze Detector Support Services Systems Requirements Split - CA-D Reso	209	100%	01-Oct-19 A	31-Jul-20 A			01-Oct-19	04-Feb-20	0	16	\$2,356.24	C
S329406	010	Send proposal packages for approvals (cable types, rack locations, and supp	21	100%	01-Apr-20 A	30-Apr-20 A			01-Apr-20	12-May-20	0	23	\$2,723.91	C
S329407	010	Conceptual Design for Cable Routing from Detector to Rack (HCal, EMCal)	164	100%	11-Mar-20 A	30-Oct-20 A			13-May-20	24-Jun-20	0	152	\$17,544.76	C
S329408	010	Conceptual Design for Cable Routing from Detector to Rack (TPC)	249	100%	01-Jul-20 A	30-Jun-21 A			25-Jun-20	23-Jul-20	0	128	\$14,706.73	C
S329409	010	Conceptual Design for Cable Routing from Detector to Rack (INTT)	131	100%	22-Dec-20 A	30-Jun-21 A			24-Jul-20	20-Aug-20	0	96	\$11,386.47	C
S329410	010	Conceptual Design for Cable Routing from Detector to Rack (MVTX)	159	100%	09-Nov-20 A	30-Jun-21 A			21-Aug-20	18-Sep-20	0	88	\$10,446.10	C
S329420	010	Conceptual Design for Cable Routing from Detector to Rack (MBD)	170	100%	23-Oct-20 A	30-Jun-21 A			21-Sep-20	19-Oct-20	0	96	\$11,386.47	C
S329430	010	Conceptual Design for Routing Fiber Optic Cables from Rack to Patch Panel	131	100%	22-Dec-20 A	30-Jun-21 A			20-Oct-20	17-Nov-20	0	104	\$12,326.84	C
S329440	010	Conceptual Design for Routing Rack Cooling System	377	100%	23-Oct-20 A	29-Apr-22 A			18-Nov-20	17-Dec-20	0	208	\$25,776.47	C
S329450	010	Conceptual Design for Routing Detector Cooling System	487	100%	15-Jul-20 A	27-Jun-22 A			18-Dec-20	26-Jan-21	0	300	\$36,539.64	C
S329460	010	Design Package for Detector Cooling System	19	100%	02-Sep-21 A	30-Sep-21 A			27-Jan-21	10-Mar-21	0	360	\$45,163.00	C
S329470	010	Conceptual Design for Power Distribution / Controls Cable Routing	7	100%	22-Mar-21 A	31-Mar-21 A			11-Mar-21	02-Apr-21	0	204	\$24,846.96	C
S1002319		Create Layout/Schematic Drawings & Design, Specification Control Documen	64	100%	02-Mar-20 A	29-May-20 A			05-Feb-20	01-Apr-20	0	64	\$8,364.39	C
S329475	010	Create Layout/Schematic Drawings & Design, Specification Control Documen	64	100%	02-Mar-20 A	29-May-20 A			05-Apr-21	28-May-21	0	280	\$34,951.55	C
S329478	010	Create Layout/Schematic Drawings & Design, Specification Control Documen	64	100%	02-Mar-20 A	29-May-20 A			05-Apr-21	28-May-21	0	4	\$624.93	C

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S329500		Create Layout/Schematic Drawings & Design, Specification Control Documen	64	100%	02-Mar-20 A	29-May-20 A			05-Feb-20	01-Apr-20	0	4	\$589.06	C
S1002399		Review Detector Support Services Systems Design/Safety - Physics Resourc	19	100%	02-Sep-21 A	30-Sep-21 A			01-Jun-21	16-Jun-21	0	16	\$2,218.45	C
S329600		Review Detector Support Services Systems Design/Safety - CA-D Resource(s)	19	100%	02-Sep-21 A	30-Sep-21 A			01-Jun-21	16-Jun-21	0	20	\$3,124.67	C
S329700		Address Action Items from Detector Support Services Systems Design & Safel	19	100%	02-Sep-21 A	30-Sep-21 A			17-Jun-21	30-Jun-21	0	120	\$15,935.11	C
S329800		Design/Safety Reviews Complete, Detector Support Services Systems Compr	0	100%		30-Sep-21 A				30-Jun-21	0	0	\$0.00	C
S1002479	010	Prepare Detector Support Services Systems Components Procurement Packa	27	100%	23-Aug-21 A	30-Sep-21 A			01-Jul-21	29-Jul-21	0	160	\$20,422.89	C
S329900		Prepare Detector Support Services Systems Components Procurement Packa	27	100%	23-Aug-21 A	30-Sep-21 A			01-Jul-21	29-Jul-21	0	20	\$3,124.67	C
S1002559	010	Evaluate & Process Detector Support Services Systems Components Bids - P	27	100%	23-Aug-21 A	30-Sep-21 A			30-Jul-21	26-Aug-21	0	32	\$4,084.58	C
S330000		Evaluate & Process Detector Support Services Systems Components Bids - C	27	100%	23-Aug-21 A	30-Sep-21 A			30-Jul-21	26-Aug-21	0	10	\$1,562.33	C
S1002639	010	Procure & Deliver Detector Support Services Systems Components (leadtime	87	100%	23-Aug-21 A	30-Dec-21 A			27-Aug-21	08-Nov-21	0	80	\$11,092.23	C
S330100		Procure & Deliver Detector Support Services Systems Components (leadtime	87	100%	23-Aug-21 A	30-Dec-21 A			27-Aug-21	08-Nov-21	0	2	\$312.47	C
S330200		Procure & Deliver Detector Support Services Systems Components (leadtime	87	100%	23-Aug-21 A	30-Dec-21 A			27-Aug-21	08-Nov-21	32000	0	\$37,884.74	C
S1002719	010	Perform Detector Support Services Systems Components Acceptance - Physi	80	100%	01-Sep-21 A	30-Dec-21 A			09-Nov-21	16-Nov-21	0	28	\$3,530.67	C
S330300		Perform Detector Support Services Systems Components Acceptance - CA-D	80	100%	01-Sep-21 A	30-Dec-21 A			09-Nov-21	16-Nov-21	0	4	\$624.93	C
S1002759	003	Procure Fiber Optics Trunk Cables and Accessories - Labor - Physics Resourc	16	100%	01-Apr-22 A	25-Apr-22 A			17-Nov-21	15-Feb-22	0	160	\$25,344.07	C
S330350	003	Procure Fiber Optics Trunk Cables and Accessories - Labor - CA-D Resource	16	100%	01-Apr-22 A	25-Apr-22 A			17-Nov-21	15-Feb-22	0	4	\$624.93	C
S330355	003	Procure Fiber Optics Trunk Cables and Accessories - M&S	16	100%	01-Apr-22 A	25-Apr-22 A			17-Nov-21	15-Feb-22	22000	0	\$26,045.76	C
S330400		Detector Support Services Systems Components Ready for Installation	0	100%		27-Jun-22 A				15-Feb-22	0	0	\$0.00	C
POM02.02.04.01.03 Detector Electronics Racks and Rack generic support systems			1143		01-May-18 A	23-Nov-22	23-Nov-22	92	01-May-18	28-Feb-22	127000	3517	\$583,418.74	
S330500		Analyze Detector Electronics Racks and Rack generic support systems Requi	105	100%	01-May-18 A	28-Sep-18 A			01-May-18	28-Sep-18	0	0	\$0.00	C
S330600	012	Analyze Detector Electronics Racks and Rack generic support systems Requi	18	100%	03-Feb-20 A	28-Feb-20 A			30-Apr-20	13-May-20	0	93	\$12,595.73	C
S330601	012	Analyze Detector Electronics Racks and Rack generic support systems Reqs	10	100%	01-May-20 A	14-May-20 A			01-May-20	14-May-20	0	0	\$0.00	C
S330602	012	Gather Power Reqs for Subsystem Racks on Detector	9	100%	15-May-20 A	29-May-20 A			15-May-20	05-Jun-20	0	240	\$28,875.80	C
S330604	010	Power Distribution Conceptual Gesign for Subsystem Racks on Detector	15	100%	01-Jun-20 A	19-Jun-20 A			08-Jun-20	26-Jun-20	0	240	\$28,875.80	C
S330606	010	Gather Rack Interlock Reqs and Specify Interlock Equipment	14	100%	11-Mar-20 A	31-Mar-20 A			29-Jun-20	27-Jul-20	0	160	\$19,250.53	C
S330608	010	Specify Power Controls Distribution Equipment	110	100%	22-Jun-20 A	30-Nov-20 A			29-Jun-20	10-Aug-20	0	240	\$28,875.80	C
S330610	010	Radiation Test for Water Leak Detection System	15	100%	08-Apr-20 A	29-Apr-20 A			29-Jun-20	13-Jul-20	0	80	\$9,625.27	C
S330612	010	Rack Interlock Conceptual Design	98	100%	13-Mar-20 A	31-Jul-20 A			14-Jul-20	15-Sep-20	0	480	\$57,751.60	C
S330616	010	Prelim Design/Safety Reviews Complete for Det El Racks and Rack generic s	0	100%		01-Apr-21 A				15-Sep-20	0	0	\$0.00	C
S330640	010	Prototype System Development Labor	324	100%	16-Mar-20 A	29-Jun-21 A			16-Sep-20	28-Jan-21	0	360	\$44,439.86	C
S330642	010	Prototype System Development M&S	324	100%	16-Mar-20 A	29-Jun-21 A			16-Sep-20	28-Jan-21	35000	0	\$40,517.74	C
S330700		Create Layout/Schematic Drawings & Design, Specification Control Documen	253	100%	23-Oct-20 A	28-Oct-21 A			29-Jan-21	12-Mar-21	0	144	\$18,052.10	C
S1002799		Review Detector Electronics Racks and Rack generic support systems Desigr	59	100%	30-Apr-21 A	26-Jul-21 A			15-Mar-21	26-Mar-21	0	48	\$6,017.37	C
S330800		Review Detector Electronics Racks and Rack generic support systems Desigr	63	100%	30-Apr-21 A	30-Jul-21 A			15-Mar-21	26-Mar-21	0	8	\$1,213.46	C
S330900		Address Action Items from Detector Electronics Racks and Rack generic supp	28	100%	21-Jun-21 A	30-Jul-21 A			29-Mar-21	09-Apr-21	0	48	\$6,017.37	C
S331000		Design/Safety Reviews Complete, Detector Electronics Racks and Rack gene	0	100%		30-Jul-21 A				09-Apr-21	0	0	\$0.00	C
S331100		Prepare Detector Electronics Racks and Rack generic support systems Comp	100	100%	05-Jul-21 A	30-Nov-21 A			12-Apr-21	06-Jul-21	0	104	\$13,364.36	C
S331200		Evaluate & Process Detector Electronics Racks and Rack generic support sys	100	100%	05-Jul-21 A	30-Nov-21 A			07-Jul-21	29-Sep-21	0	240	\$31,375.87	C
S331300		Procure & Deliver Detector Elec. Racks & Rack generic support systems Com	204	100%	05-Jul-21 A	29-Apr-22 A			30-Sep-21	29-Dec-21	0	240	\$31,375.87	C
S331400		Procure & Deliver Detector Elec. Racks & Rack generic support systems Com	204	100%	05-Jul-21 A	29-Apr-22 A			30-Sep-21	29-Dec-21	92000	0	\$108,918.62	C
S331450	028	Assemble Racks for Lower West Platform	156	100%	13-Sep-21 A	29-Apr-22 A			30-Sep-21	28-Oct-21	0	80	\$9,685.77	C
S331460	028	Assemble Racks for Middle West Platform	135	100%	13-Sep-21 A	31-Mar-22 A			30-Sep-21	28-Oct-21	0	80	\$9,685.77	C
S331470	028	Assemble Racks for Lower East Platform	257	92%	15-Nov-21 A	23-Nov-22	23-Nov-22	92	30-Sep-21	28-Oct-21	0	80	\$9,685.77	C
S331480	028	Assemble Racks for Middle East Platform	135	100%	13-Sep-21 A	31-Mar-22 A			30-Sep-21	28-Oct-21	0	80	\$9,685.77	C
S331490	028	Assemble Racks for Main Upper Platform	300	85%	13-Sep-21 A	23-Nov-22	23-Nov-22	92	30-Sep-21	28-Feb-22	0	200	\$24,214.44	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S331495	028	Assemble Racks for Rack Room	196	100%	13-Sep-21 A	27-Jun-22 A			30-Sep-21	28-Feb-22	0	200	\$24,214.44	C
S331500		Perform Detector Electronics Racks and Rack generic support systems Comp	95	100%	13-Dec-21 A	29-Apr-22 A			30-Dec-21	13-Jan-22	0	72	\$9,103.62	C
S331600		Detector Electronics Racks and Rack generic support systems Components R	0	100%		01-Jun-22 A				13-Jan-22	0	0	\$0.00	C
POM02.02.04.01.04 Detector Gas and Cooling Services Systems			1027		02-Jan-19 A	09-Feb-23	09-Feb-23	45	02-Jan-19	28-Apr-22	231193	2210	\$552,334.70	
OBLG3290	008C	Procure & Deliver Detector Gas and Cooling Services Systems Components (	121	100%	20-Jul-21 A	14-Jan-22 A			17-Aug-21	17-Aug-21	124193	0	\$124,193.00	C
S1002839	003	Analyze Detector Gas and Cooling Services Systems Requirements Split - Ph	209	100%	01-Oct-19 A	31-Jul-20 A			01-Oct-19	31-Dec-19	0	366	\$51,163.62	C
S1002879		Review Detector Gas and Cooling Services Systems Design/Safety - Physics	75	100%	15-Jun-21 A	30-Sep-21 A			30-Mar-20	10-Apr-20	0	44	\$5,854.80	C
S331700	003	Analyze Detector Gas and Cooling Services Systems Requirements	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S331705	003	Analyze Detector Gas and Cooling Services Systems Requirements Split - CA	209	100%	01-Oct-19 A	31-Jul-20 A			01-Oct-19	31-Dec-19	0	16	\$2,356.24	C
S331710	010	Design Cooling Manifolds for EMCal	530	100%	18-Mar-20 A	29-Apr-22 A			03-Aug-20	14-Aug-20	0	32	\$3,917.05	C
S331720	010	Design Cooling Manifolds for TPC	273	100%	17-Mar-20 A	16-Apr-21 A			17-Aug-20	21-Aug-20	0	32	\$3,917.05	C
S331730	010	Design Coolin Manifolds for INTT	388	100%	08-Dec-20 A	27-Jun-22 A			24-Aug-20	28-Aug-20	0	32	\$4,034.56	C
S331740	010	Design Coolin Manifolds for MVTX	9	100%	08-Feb-21 A	22-Feb-21 A			31-Aug-20	04-Sep-20	0	32	\$4,034.56	C
S331750	010	Conceptual Design for Routing Detector Cooling Chiller Systems to Det Manif	154	100%	23-Feb-21 A	30-Sep-21 A			08-Sep-20	21-Sep-20	0	32	\$4,034.56	C
S331760	010	Conceptual Design for Cooling Tube Routing from Detector to IHCal manifold	14	100%	12-Jul-21 A	30-Jul-21 A			22-Sep-20	28-Sep-20	0	32	\$4,034.56	C
S331770	010	Conceptual Design for Cooling Tube Routing from Detector to EMCal manifold	205	100%	08-Dec-20 A	30-Sep-21 A			29-Sep-20	05-Oct-20	0	32	\$4,034.56	C
S331780	010	Conceptual Design for Cooling Tube Routing from Detector to TPC manifold	205	100%	08-Dec-20 A	30-Sep-21 A			06-Oct-20	13-Oct-20	0	32	\$4,034.56	C
S331790	010	Conceptual Design for Cooling Tube Routing from Detector to INTT, MVTX ma	201	100%	14-Dec-20 A	30-Sep-21 A			14-Oct-20	27-Oct-20	0	64	\$8,069.13	C
S331800		Create Layout/Schematic Drawings & Design, Specs Control Docs, Assy & De	152	100%	22-Feb-21 A	27-Sep-21 A			02-Jan-20	27-Mar-20	0	192	\$25,845.96	C
S331900		Review Detector Cooling Services Systems Design/Safety - CA-D Resource(s)	1	100%	22-Sep-21 A	23-Sep-21 A			30-Mar-20	10-Apr-20	0	16	\$2,484.90	C
S331905	010	Review Detector Cooling Services Systems Design/Safety	1	100%	22-Sep-21 A	23-Sep-21 A			28-Jan-21	10-Feb-21	0	16	\$2,499.74	C
S332000		Address Action Items from Detector Cooling Services Systems Design & Safe	1	100%	22-Sep-21 A	23-Sep-21 A			11-Feb-21	25-Feb-21	0	52	\$6,998.98	C
S332100		Design/Safety Reviews Complete, Detector Gas and Cooling Services System	0	100%		23-Sep-21 A				25-Feb-21	0	0	\$0.00	C
S332200		Prepare Detector Cooling Services Systems Components Procurement Packa	189	100%	03-Jan-22 A	30-Sep-22 A			26-Feb-21	02-Jul-21	0	104	\$13,716.67	C
S332300		Evaluate & Process Detector Cooling Services Systems Components Bids	189	100%	03-Jan-22 A	30-Sep-22 A			06-Jul-21	16-Aug-21	0	48	\$6,655.34	C
S332400		Procure & Deliver Detector Cooling Services Systems Components (leadtime	179	100%	17-Jan-22 A	30-Sep-22 A			17-Aug-21	10-Feb-22	0	192	\$26,621.34	C
S332500		Procure & Deliver Detector Cooling Services Systems Components (leadtime :	55	100%	14-Jul-22 A	30-Sep-22 A			17-Aug-21	10-Feb-22	53000	0	\$63,729.62	C
S332600		Perform Detector Cooling Services Systems Components Acceptance	53	100%	18-Jul-22 A	30-Sep-22 A			11-Feb-22	11-Mar-22	0	40	\$5,567.63	C
S332700		Detector Cooling Services Systems Components Ready for Installation	0	100%		30-Sep-22 A				11-Mar-22	0	0	\$0.00	C
S332705	010	Conceptual Design for Routing Operating gas Line from Gas House to TPC M	4	100%	13-Jan-21 A	20-Jan-21 A			28-Oct-20	29-Oct-20	0	24	\$3,094.20	C
S332710	010	Conceptual Design for Routing N2 Line from Gas House to N2/Air Manifolds	217	100%	18-Dec-20 A	29-Oct-21 A			30-Oct-20	02-Nov-20	0	24	\$3,094.20	C
S332712	010	Conceptual Design for Gas Tube Routing from Det to N2/Air Manifolds (IHCal)	198	100%	15-Feb-21 A	30-Nov-21 A			03-Nov-20	09-Nov-20	0	24	\$3,094.20	C
S332715	010	Conceptual Design for Gas Tube Routing from Det to N2/Air Manifolds (MBD)	179	100%	15-Feb-21 A	29-Oct-21 A			10-Nov-20	17-Nov-20	0	24	\$3,094.20	C
S332720	010	Conceptual Design for Gas Tube Routing from Det to N2/Air Manifolds (INTT, I	380	100%	18-Dec-20 A	27-Jun-22 A			18-Nov-20	03-Dec-20	0	24	\$3,094.20	C
S332725	010	Conceptual Design for Gas Tube Routing from Det to N2/Air Manifolds (EMCa	380	100%	18-Dec-20 A	27-Jun-22 A			04-Dec-20	10-Dec-20	0	24	\$3,094.20	C
S332730	010	Conceptual Design for Gas Tube Routing from Det to Operating Gas Manifolds	192	100%	22-Dec-20 A	27-Sep-21 A			11-Dec-20	17-Dec-20	0	24	\$3,094.20	C
S332735	010	Create Layout/Schematic Drawings & Design, Specs Control Docs, Assem. &	441	90%	15-Feb-21 A	16-Nov-22	16-Nov-22	45	18-Dec-20	17-Mar-21	0	192	\$25,845.96	C
S332740	010	Review Detector Gas Service Systems Design/Safety	4	100%	01-Jul-22 A	08-Jul-22 A			18-Mar-21	31-Mar-21	0	24	\$3,187.02	C
S332745	010	Address Action items from Detector Gas Services Systems Design & Safety R	7	100%	08-Jul-22 A	19-Jul-22 A			01-Apr-21	14-Apr-21	0	36	\$5,061.82	C
S332750	010	Design/Safety Reviews complete (MS) for Detector Gas Service Systems	0	100%		19-Jul-22 A				14-Apr-21	0	0	\$0.00	C
S332755	010	Prepare Detector Gas Services Systems Components Procurement Packages	81	40%	22-Jul-22 A	16-Nov-22	16-Nov-22	45	15-Apr-21	20-Aug-21	0	104	\$13,730.38	C
S332760	010	Evaluate & Process Bids Detector Gas Services Systems Components	52	40%	05-Sep-22 A	18-Nov-22	02-Nov-22	45	23-Aug-21	04-Oct-21	0	48	\$6,855.00	C
S332765	010	Procure & Deliver Detector Gas Services Systems Components - Labor	101	40%	03-Sep-22 A	02-Feb-23	02-Feb-23	45	05-Oct-21	31-Mar-22	0	192	\$27,419.98	C
S332770	010	Procure & Deliver Detector Gas Services Systems Components - M&S	101	40%	03-Sep-22 A	02-Feb-23	02-Feb-23	45	05-Oct-21	31-Mar-22	54000	0	\$65,209.09	C
S332775	010	Perform Components Acceptance Detector Gas Services Systems Componen	102	40%	12-Sep-22 A	09-Feb-23	09-Feb-23	45	01-Apr-22	28-Apr-22	0	40	\$5,567.63	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S332780	010	Detector Gas Services Systems Components Ready for Installation	0	0%		09-Feb-23		45		28-Apr-22	0	0	\$0.00	C
POM02.02.04.01.05 Detector Safety Subsystems			360		26-Apr-21 A	30-Sep-22 A			12-Apr-21	29-Dec-21	12000	472	\$80,772.19	
S1002919	012	Analyze Detector Safety Subsystems Requirements - Physics Resource(s)	46	100%	26-Apr-21 A	30-Jun-21 A			12-Apr-21	14-May-21	0	144	\$19,998.53	C
S1002959	012	Create Schematic Design and Specification Control Documents for Detector S	118	100%	05-Jul-21 A	27-Dec-21 A			17-May-21	21-Jun-21	0	72	\$10,404.94	C
S1002999		Review Detector Safety Subsystems Design/Safety - Physics Resource(s)	6	100%	06-Dec-21 A	14-Dec-21 A			22-Jun-21	06-Jul-21	0	24	\$3,468.31	C
S332800	012	Analyze Detector Safety Subsystems Requirements - CA-D Resource(s)	46	100%	26-Apr-21 A	30-Jun-21 A			12-Apr-21	14-May-21	0	8	\$1,213.46	C
S332900	012	Create Schematic Design and Specification Control Documents for Detector S	118	100%	05-Jul-21 A	27-Dec-21 A			17-May-21	21-Jun-21	0	12	\$1,874.80	C
S333000		Review Detector Safety Subsystems Design/Safety - CA-D Resource(s)	6	100%	06-Dec-21 A	14-Dec-21 A			22-Jun-21	06-Jul-21	0	8	\$1,249.87	C
S333100		Address Action Items from Detector Safety Subsystems Design & Safety Revi	9	100%	14-Feb-22 A	28-Feb-22 A			07-Jul-21	20-Jul-21	0	24	\$3,468.31	C
S333200		Design/Safety Reviews Complete, Detector Safety Subsystems Components I	0	100%		28-Feb-22 A				20-Jul-21	0	0	\$0.00	C
S333300		Prepare Detector Safety Subsystems Components Procurement Package(s)	134	100%	21-Feb-22 A	31-Aug-22 A			21-Jul-21	03-Aug-21	0	16	\$2,218.45	C
S333400		Evaluate & Process Detector Safety Subsystems Components Bids	134	100%	21-Feb-22 A	31-Aug-22 A			04-Aug-21	15-Sep-21	0	48	\$6,655.34	C
S333500		Procure & Deliver Detector Safety Subsystems Components (leadtime and fat	160	100%	14-Feb-22 A	30-Sep-22 A			16-Sep-21	14-Dec-21	0	96	\$13,310.67	C
S333600		Procure & Deliver Detector Safety Subsystems Components (leadtime and fat	160	100%	14-Feb-22 A	30-Sep-22 A			16-Sep-21	14-Dec-21	12000	0	\$14,206.78	C
S333700		Perform Detector Safety Subsystems Components Acceptance	160	100%	14-Feb-22 A	30-Sep-22 A			15-Dec-21	29-Dec-21	0	20	\$2,702.73	C
S333800		Detector Safety Subsystems Components Ready for Installation	0	100%		30-Sep-22 A				29-Dec-21	0	0	\$0.00	C
POM02.02.04.01.06 Gas Mixing House & Gas Pad Components			127		01-Apr-21 A	30-Sep-21 A			26-Feb-21	10-Feb-22	10000	846	\$123,279.09	
S1003039	003	Analyze Gas Mixing House & Gas Pad Components Requirements - Physics I	61	100%	01-Apr-21 A	28-Jun-21 A			26-Feb-21	08-Apr-21	0	132	\$17,792.61	C
S1003079		Create Gas Mixing House & Gas Pad Components Schematic Design and Sp	127	100%	01-Apr-21 A	30-Sep-21 A			09-Apr-21	20-May-21	0	132	\$16,825.40	C
S1003119		Review Gas Mixing House & Gas Pad Components Design/Safety - Physics F	17	100%	06-Sep-21 A	30-Sep-21 A			21-May-21	04-Jun-21	0	16	\$2,218.45	C
S1003159		Prepare Gas Mixing House & Gas Pad Components Procurement Package(s)	17	100%	06-Sep-21 A	30-Sep-21 A			21-Jun-21	02-Aug-21	0	96	\$12,466.80	C
S1003199		Evaluate & Process Gas Mixing House & Gas Pad Components Bids - Physic	17	100%	06-Sep-21 A	30-Sep-21 A			03-Aug-21	14-Sep-21	0	96	\$12,466.80	C
S1003239		Perform Gas Mixing House & Gas Pad Components Acceptance - Physics Re	17	100%	06-Sep-21 A	30-Sep-21 A			28-Jan-22	10-Feb-22	0	32	\$4,155.60	C
S333900	003	Analyze Gas Mixing House & Gas Pad Components Requirements - CA-D Re	61	100%	01-Apr-21 A	28-Jun-21 A			26-Feb-21	08-Apr-21	0	16	\$2,458.48	C
S334000		Create Gas Mixing House & Gas Pad Components Schematic Design and Sp	127	100%	01-Apr-21 A	30-Sep-21 A			09-Apr-21	20-May-21	0	8	\$1,249.87	C
S334100		Review Gas Mixing House & Gas Pad Components Design/Safety - CA-D Re:	20	100%	01-Sep-21 A	30-Sep-21 A			21-May-21	04-Jun-21	0	8	\$1,249.87	C
S334200		Address Action Items from Gas Mixing House & Gas Pad Components Design	20	100%	01-Sep-21 A	30-Sep-21 A			07-Jun-21	18-Jun-21	0	16	\$2,218.45	C
S334300		Design/Safety Reviews Complete, Gas Mixing House & Gas Pad Component	0	100%		30-Sep-21 A				18-Jun-21	0	0	\$0.00	C
S334400		Prepare Gas Mixing House & Gas Pad Components Procurement Package(s)	20	100%	01-Sep-21 A	30-Sep-21 A			21-Jun-21	02-Aug-21	0	2	\$312.47	C
S334500		Evaluate & Process Gas Mixing House & Gas Pad Components Bids - CA-D F	20	100%	01-Sep-21 A	30-Sep-21 A			03-Aug-21	14-Sep-21	0	2	\$312.47	C
S334600		Procure & Deliver Gas Mixing House & Gas Pad Components (leadtime and fi	20	100%	01-Sep-21 A	30-Sep-21 A			15-Sep-21	27-Jan-22	0	288	\$37,400.40	C
S334700		Procure & Deliver Gas Mixing House & Gas Pad Components (leadtime and fi	20	100%	01-Sep-21 A	30-Sep-21 A			15-Sep-21	27-Jan-22	10000	0	\$11,838.98	C
S334800		Perform Gas Mixing House & Gas Pad Components Acceptance - CA-D Reso	20	100%	01-Sep-21 A	30-Sep-21 A			28-Jan-22	10-Feb-22	0	2	\$312.47	C
S334900		Gas Mixing House & Gas Pad Components Ready for Installation	0	100%		30-Sep-21 A				10-Feb-22	0	0	\$0.00	C
POM02.02.04.01.07 Rack Room Modifications			447		14-Sep-20 A	29-Jun-22 A			21-Jul-21	07-Jun-22	20000	600	\$105,411.83	
S1003279	012	Analyze Rack Room Modifications Requirements - Physics Resource(s)	111	100%	14-Sep-20 A	26-Feb-21 A			21-Jul-21	15-Sep-21	0	160	\$21,810.86	C
S1003319		Prepare Rack Room Modifications Components Procurement Package(s) - Ph	9	100%	10-Jan-22 A	24-Jan-22 A			15-Dec-21	28-Jan-22	0	72	\$9,561.07	C
S335000	012	Analyze Rack Room Modifications Requirements - CA-D Resource(s)	111	100%	14-Sep-20 A	26-Feb-21 A			21-Jul-21	15-Sep-21	0	2	\$303.37	C
S335100		Create Rack Room Modifications Schematic Design and Specification Control	137	100%	02-Jul-21 A	24-Jan-22 A			16-Sep-21	12-Nov-21	0	40	\$5,794.22	C
S335200		Review Rack Room Modifications Components Design/Safety	9	100%	10-Jan-22 A	24-Jan-22 A			15-Nov-21	30-Nov-21	0	16	\$2,710.56	C
S335300		Address Action Items from Rack Room Modifications Design & Safety Reviews	9	100%	10-Jan-22 A	24-Jan-22 A			01-Dec-21	14-Dec-21	0	48	\$6,584.87	C
S335400		Design/Safety Reviews Complete, Rack Room Modifications Components Re	0	100%		31-Jan-22 A				14-Dec-21	0	0	\$0.00	C
S335500		Prepare Rack Room Modifications Components Procurement Package(s) - C/	9	100%	10-Jan-22 A	24-Jan-22 A			15-Dec-21	28-Jan-22	0	2	\$312.47	C
S335600		Evaluate & Process Rack Room Modifications Components Bids	93	100%	14-Feb-22 A	27-Jun-22 A			31-Jan-22	28-Feb-22	0	56	\$7,342.62	C
S335700		Procure & Deliver Rack Room Modifications Components (leadtime and fabric	93	100%	14-Feb-22 A	27-Jun-22 A			01-Mar-22	23-May-22	0	168	\$22,027.87	C

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S335800		Procure & Deliver Rack Room Modifications Components (leadtime and fabric	93	100%	14-Feb-22 A	27-Jun-22 A			01-Mar-22	23-May-22	20000	0	\$23,677.96	C
S335900		Perform Rack Room Modifications Components Acceptance	93	100%	14-Feb-22 A	27-Jun-22 A			24-May-22	07-Jun-22	0	36	\$5,285.97	C
S336000	003	Rack Room Modifications Components Ready for Installation	0	100%		29-Jun-22 A				07-Jun-22	0	0	\$0.00	
POM02.02.04.01.08 Control Room and Offices Modifications			243		06-Sep-21 A	26-Aug-22 A			15-Dec-21	24-May-22	109195	370	\$168,354.82	
OBLG3295	008C	Procure & Deliver Control Room and Offices Modifications Components (lead	5	100%	10-Jan-22 A	18-Jan-22 A			29-Mar-22	29-Mar-22	59195	0	\$59,195.00	C
S1003359		Analyze Control Room and Offices Modifications Requirements - Physics Res	14	100%	04-Oct-21 A	25-Oct-21 A			15-Dec-21	29-Dec-21	0	40	\$5,616.30	C
S1003439		Create Control Room and Offices Modifications Schematic Design and Specif	88	100%	06-Sep-21 A	17-Jan-22 A			30-Dec-21	06-Jan-22	0	12	\$1,593.51	C
S1003519		Prepare Control Room and Offices Modifications Components Procurement P.	5	100%	10-Jan-22 A	17-Jan-22 A			31-Jan-22	14-Mar-22	0	72	\$9,561.07	C
S1003599		Perform Control Room and Offices Modifications Components Acceptance - P	5	100%	10-Jan-22 A	17-Jan-22 A			11-May-22	24-May-22	0	36	\$5,132.01	C
S336100		Analyze Control Room and Offices Modifications Requirements - CA-D Resou	14	100%	04-Oct-21 A	25-Oct-21 A			15-Dec-21	29-Dec-21	0	4	\$624.93	C
S336200		Create Control Room and Offices Modifications Schematic Design and Specif	88	100%	06-Sep-21 A	17-Jan-22 A			30-Dec-21	06-Jan-22	0	2	\$312.47	C
S336300		Review Control Room and Offices Modifications Design/Safety	5	100%	24-Jan-22 A	31-Jan-22 A			07-Jan-22	13-Jan-22	0	8	\$1,355.28	C
S336400		Address Action Items from Control Room and Offices Modifications Design & S	5	100%	24-Jan-22 A	31-Jan-22 A			14-Jan-22	28-Jan-22	0	40	\$5,616.30	C
S336500		Design/Safety Reviews Complete, Control Room and Offices Modifications Cc	0	100%		31-Jan-22 A				28-Jan-22	0	0	\$0.00	
S336600		Prepare Control Room and Offices Modifications Components Procurement P.	136	100%	14-Feb-22 A	26-Aug-22 A			31-Jan-22	14-Mar-22	0	2	\$312.47	C
S336700		Evaluate & Process Control Room and Offices Modifications Components Bids	136	100%	14-Feb-22 A	26-Aug-22 A			15-Mar-22	28-Mar-22	0	32	\$4,155.60	C
S336800		Procure & Deliver Control Room and Offices Modifications Components (lead	14	100%	06-Dec-21 A	27-Dec-21 A			29-Mar-22	09-May-22	0	120	\$15,372.53	C
S336900		Procure & Deliver Control Room and Offices Modifications Components (lead	136	100%	14-Feb-22 A	26-Aug-22 A			30-Mar-22	10-May-22	50000	0	\$59,194.90	C
S337000		Perform Control Room and Offices Modifications Components Acceptance - C	136	100%	14-Feb-22 A	26-Aug-22 A			11-May-22	24-May-22	0	2	\$312.47	C
S337100	003	Control Room and Offices Modifications Components Ready for Installation	0	100%		26-Aug-22 A				24-May-22	0	0	\$0.00	
POM02.02.04.02 Infrastructure Facility Support Systems			1483		01-Feb-17 A	06-Jan-23	06-Jan-23	68	01-Feb-17	07-Oct-22	1504786	6508	\$2,472,300.67	
S1000519	003	Actuals - Labor - sPHENIX Infrastructure FY17 16724	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	36	\$6,015.34	C
S1000679	003	Actuals - Labor - sPHENIX Infrastructure FY18 16724	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	36	\$6,015.34	C
S1001679	003	Actuals - Labor - sPHENIX Infrastructure FY19 M8 16724	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	36	\$6,015.34	C
S1005000	003	Actuals - Labor FY19 Jun-Sep 16724	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	36	\$6,015.34	C
S1005040	003	Actuals - NonLabor FY19 Jun-Sep 16724	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	03-Jun-19	61593	36	\$67,952.97	C
POM02.02.04.02.01 Magnet Cryo, Electrical & Control Structural Support in IR			753		01-Oct-19 A	04-Oct-22 A			27-Mar-20	07-Oct-22	106896	821	\$212,244.84	
S337300	003	Create Cryo Routing in IR Layout Drawings - Physics Resource(s)	230	100%	01-Oct-19 A	31-Aug-20 A			27-Mar-20	23-Apr-20	0	24	\$3,534.36	C
S337310	003	Create Cryo Routing in IR Layout Drawings - CA-D Resource(s)	230	100%	01-Oct-19 A	31-Aug-20 A			27-Mar-20	23-Apr-20	0	120	\$13,241.33	C
S337400	003	Create Cryo Structural Support in IR Detail & Assembly Drawings	209	100%	30-Oct-19 A	31-Aug-20 A			24-Apr-20	05-Jun-20	0	36	\$4,026.80	C
S337500	003	Review Magnet Cryo, Electrical & Control Structural Support in IR Design/Saf	95	100%	17-Jun-20 A	30-Oct-20 A			08-Jun-20	12-Jun-20	0	36	\$3,972.40	C
S337600	003	Address Action Items from Cryo Structural Support in IR Detail Design & Safet	4	100%	06-Oct-20 A	13-Oct-20 A			15-Jun-20	19-Jun-20	0	36	\$3,941.40	C
S337700	003	Design/Safety Reviews Complete, Magnet Cryo, Electrical & Control Structura	0	100%		30-Oct-20 A				19-Jun-20	0	0	\$0.00	
S337800	003	Prepare Magnet Cryo, Electrical & Control Structural Support in IR Componen	71	100%	15-Oct-20 A	29-Jan-21 A			22-Jun-20	03-Aug-20	0	132	\$15,002.43	C
S337900	003	Evaluate & Process Magnet Cryo, Electrical & Control Structural Support in IR	72	100%	14-Oct-20 A	29-Jan-21 A			04-Aug-20	15-Sep-20	0	72	\$8,183.14	C
OBLG3565	008C	Procure & Deliver Magnet Cryo, Electrical & Control Structural Support in IR C	1	100%	24-Feb-21 A	25-Feb-21 A			16-Sep-20	16-Sep-20	56896	0	\$56,896.00	C
S337200	003	Procure & Deliver Magnet Cryo, Electrical & Control Structural Support in IR C	68	100%	14-Oct-20 A	26-Jan-21 A			17-Sep-20	14-Jan-21	50000	36	\$58,034.22	C
S338000	003	Procure & Deliver Magnet Cryo, Electrical & Control Structural Support in IR C	72	100%	14-Oct-20 A	29-Jan-21 A			16-Sep-20	13-Jan-21	0	192	\$21,821.71	C
S338100	003	Perform Magnet Cryo, Electrical & Control Structural Support in IR Componen	8	100%	19-Jan-21 A	29-Jan-21 A			15-Jan-21	29-Jan-21	0	24	\$2,591.98	C
S338200	003	Magnet cryo, electrical and control structural support components Ready for In	0	100%		29-Jan-21 A				29-Jan-21	0	0	\$0.00	
S277700	025	2023 Detector Support Systems L3 Project Management	2	100%	03-Oct-22 A	04-Oct-22 A			03-Oct-22	07-Oct-22	0	113	\$20,999.07	C
POM02.02.04.02.02 Beampipe/Vacuum			563		02-Mar-20 A	27-May-22 A			01-Oct-20	30-Jun-22	208034	1106	\$368,313.54	
S338400	003,005	Create Beampipe/Vacuum Layout - Physics Resource(s)	21	100%	02-Mar-20 A	31-Mar-20 A			01-Oct-20	29-Oct-20	0	36	\$5,076.39	C
S338410	003	Create Beampipe/Vacuum Layout - CA-D Resource(s)	21	100%	02-Mar-20 A	31-Mar-20 A			01-Oct-20	29-Oct-20	0	36	\$5,460.59	C
S338500	003	Create Beampipe/Vacuum Envelope Drawing	21	100%	02-Mar-20 A	31-Mar-20 A			30-Oct-20	13-Nov-20	0	36	\$4,231.65	C

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S338600	003	Create Beampipe/Vacuum subassembly and detail Drawings	21	100%	02-Mar-20 A	31-Mar-20 A			16-Nov-20	15-Dec-20	0	36	\$4,231.65	C
S338700	003	Review Beampipe/Vacuum Design/Safety - Physics Resource(s)	21	100%	02-Mar-20 A	31-Mar-20 A			16-Dec-20	22-Dec-20	0	36	\$5,306.66	C
S338710	003	Review Beampipe/Vacuum Design/Safety - CA-D Resource(s)	21	100%	02-Mar-20 A	31-Mar-20 A			16-Dec-20	22-Dec-20	0	50	\$7,240.74	C
S338800	003	Address Action Items from Beampipe/Vacuum Design & Safety Reviews - Phy	21	100%	02-Mar-20 A	31-Mar-20 A			23-Dec-20	07-Jan-21	0	36	\$4,231.65	C
S338810	003	Address Action Items from Beampipe/Vacuum Design & Safety Reviews - CA-	21	100%	02-Mar-20 A	31-Mar-20 A			23-Dec-20	07-Jan-21	0	36	\$5,460.59	C
S338900	003	Design/Safety Reviews Complete, Beampipe/Vacuum components Released	0	100%		31-Mar-20 A				07-Jan-21	0	0	\$0.00	
S339000	003	Prepare Beampipe/Vacuum Components Procurement Package(s) Preparatio	9	100%	01-Jul-20 A	15-Jul-20 A			08-Jan-21	05-Feb-21	0	36	\$4,231.65	C
S339010	003	Prepare Beampipe/Vacuum Components Procurement Package(s) Preparatio	11	100%	16-Jul-20 A	31-Jul-20 A			08-Jan-21	05-Feb-21	0	36	\$5,460.59	C
S339100	003	Evaluate & Process Beampipe/Vacuum Components Bids - Physics Resource	75	100%	15-Jul-20 A	30-Oct-20 A			08-Feb-21	08-Mar-21	0	36	\$4,231.65	C
S339110	003	Evaluate & Process Beampipe/Vacuum Components Bids - CA-D Resource(s)	74	100%	16-Jul-20 A	30-Oct-20 A			08-Feb-21	08-Mar-21	0	36	\$5,460.59	C
S339200	003	Procure & Deliver Beampipe/Vacuum Components (leadtime and fabrication i	103	100%	04-Jan-21 A	31-May-21 A			09-Mar-21	25-Aug-21	0	36	\$4,231.65	C
S339210	003	Procure & Deliver Beampipe/Vacuum Components (leadtime and fabrication i	103	100%	04-Jan-21 A	31-May-21 A			09-Mar-21	25-Aug-21	0	36	\$5,460.59	C
OBLG3566	008C	Procure & Deliver Beampipe/Vacuum Components (leadtime and fabrication i	1	100%	22-Jun-21 A	23-Jun-21 A			09-Mar-21	09-Mar-21	58034	0	\$58,034.00	C
S338300	003	Procure & Deliver Beampipe/Vacuum Components (leadtime and fabrication i	102	100%	05-Jan-21 A	31-May-21 A			10-Mar-21	26-Aug-21	50000	36	\$58,034.22	C
S339300	024	Perform Beampipe/vacuum Acceptance - Physics Resource(s) NEG coating	20	100%	02-May-22 A	27-May-22 A			27-Aug-21	17-May-22	0	36	\$4,358.60	C
S339310	024	Perform Beampipe/vacuum Acceptance - CA-D Resource(s) NEG coating	19	100%	02-May-22 A	27-May-22 A			27-Aug-21	17-May-22	0	36	\$4,740.08	C
S339350	028	NEG Re-coating of beryllium beampipe	162	100%	01-Oct-21 A	27-May-22 A			01-Jun-21	30-Jun-22	100000	0	\$111,561.35	C
S339400	003	Beampipe/Vacuum components Ready for Installation	0	100%		27-May-22 A				17-May-22	0	0	\$0.00	
S339355	033C	NEG Re-coating of beryllium beampipe	19	100%	02-May-22 A	27-May-22 A			01-Jun-22	30-Jun-22	0	480	\$61,268.68	C
POM02.02.04.02.03 IR HVAC			455		01-Oct-20 A	29-Jul-22 A			01-Oct-20	15-Jun-21	35000	454	\$96,098.40	
S339600	003	Model IR HVAC Thermal Requirements	80	100%	01-Oct-20 A	29-Jan-21 A			01-Oct-20	13-Nov-20	0	36	\$4,782.15	C
S339700	003	Create IR HVAC Layout/schematic drawings & Design specification control do	153	100%	21-Dec-20 A	30-Jul-21 A			16-Nov-20	15-Dec-20	0	36	\$4,194.59	C
S339800	003	Review IR HVAC Design/Safety	19	100%	02-Sep-21 A	30-Sep-21 A			16-Dec-20	22-Dec-20	0	36	\$4,433.83	C
S339900	003	Address Action Items from IR HVAC Design & Safety Reviews	19	100%	02-Sep-21 A	30-Sep-21 A			23-Dec-20	07-Jan-21	0	32	\$3,941.18	C
S340000	003	Design/Safety Reviews Complete, IR HVAC Components Released for Produ	0	100%		30-Sep-21 A				07-Jan-21	0	0	\$0.00	C
S340100	003	Prepare IR HVAC Components Procurement Package(s)	19	100%	02-Sep-21 A	30-Sep-21 A			08-Jan-21	05-Feb-21	0	52	\$6,244.03	C
S340200	003	Evaluate & Process IR HVAC Components Bids	182	100%	02-Sep-21 A	27-May-22 A			08-Feb-21	08-Mar-21	0	52	\$6,244.03	C
S340300	003	Procure & Deliver IR HVAC Components (leadtime and fabrication included) -	175	100%	16-Nov-21 A	29-Jul-22 A			09-Mar-21	01-Jun-21	0	144	\$16,857.27	C
S339500	003	Procure & Deliver IR HVAC Components (leadtime and fabrication included) -	152	100%	16-Nov-21 A	27-Jun-22 A			09-Mar-21	01-Jun-21	35000	0	\$41,436.43	C
S340400	003	Perform IR HVAC Components Acceptance	157	100%	14-Dec-21 A	29-Jul-22 A			02-Jun-21	15-Jun-21	0	66	\$7,964.90	C
S340500	003	IR HVAC components Ready for Installation	0	100%		29-Jul-22 A				15-Jun-21	0	0	\$0.00	C
POM02.02.04.02.04 IR Electronics Cooling Water Distribution System			852		02-Jan-19 A	27-May-22 A			02-Jan-19	02-Mar-22	141953	690	\$234,978.29	
S340700	003	Model IR Electronics Cooling Water Distribution Thermal Requirements - Phys	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S340702	003	Model IR Electronics Cooling Water Distribution Thermal Requirements - Phys	15	100%	01-Nov-19 A	25-Nov-19 A			01-Oct-20	03-May-21	0	30	\$5,163.17	C
S340710	003,005	Model IR Electronics Cooling Water Distribution Thermal Requirements - CA-I	15	100%	01-Nov-19 A	25-Nov-19 A			01-Oct-20	01-Dec-20	0	244	\$26,811.32	C
S340800	003	Create IR Electronics Cooling Water Distribution Layout/Schematic Drawings	151	100%	21-Dec-20 A	28-Jul-21 A			04-May-21	29-Jun-21	0	100	\$11,517.59	C
S340900	003	Review IR Electronics cooling water System Design/Safety	5	100%	13-Dec-21 A	20-Dec-21 A			30-Jun-21	14-Jul-21	0	28	\$3,434.48	C
S341000	003	Address Action Items from IR Electronics Cooling Water Distribution Design &	2	100%	20-Dec-21 A	22-Dec-21 A			15-Jul-21	28-Jul-21	0	26	\$3,122.01	C
S341100	003	Design/Safety Reviews Complete, IR Electronics Cooling Water Distribution S	0	100%		27-Dec-21 A				28-Jul-21	0	0	\$0.00	C
S341200	003	Prepare IR Electronics Cooling Water Distribution System Components Procu	17	100%	01-Dec-21 A	24-Dec-21 A			29-Jul-21	25-Aug-21	0	52	\$6,244.03	C
S341300	003	Evaluate & Process IR Electronics Cooling Water Distribution System Compon	17	100%	01-Dec-21 A	24-Dec-21 A			26-Aug-21	23-Sep-21	0	52	\$6,244.03	C
S341400	003	Procure & Deliver IR Electronics Cooling Water Distribution Components (lea	273	100%	26-Apr-21 A	27-May-22 A			24-Sep-21	08-Dec-21	0	122	\$14,084.14	C
OBLG3567	008C	Procure & Deliver IR Electronics Cooling Water Distribution Components (lea	0	100%	14-Sep-21 A	14-Sep-21 A			09-Dec-21	09-Dec-21	76953	0	\$76,953.00	C
S340600	003	Procure & Deliver IR Electronics Cooling Water Distribution Components (lea	273	100%	26-Apr-21 A	27-May-22 A			10-Dec-21	23-Feb-22	65000	0	\$76,953.37	C
S341500	003	Perform IR Electronics Cooling Water Distribution System Components Accep	123	100%	01-Dec-21 A	27-May-22 A			24-Feb-22	02-Mar-22	0	36	\$4,451.15	C

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S341600	003	IR Electronics Cooling Water Distribution System Components Ready for Inst	0	100%		27-May-22 A				02-Mar-22	0	0	\$0.00	C
POM02.02.04.02.05 IR/AH Safety Subsystems			516		14-Dec-20 A	06-Jan-23	06-Jan-23	48	01-Oct-20	07-Jul-21	32000	795	\$136,452.97	
S341800	003	Analyze IR/AH Safety Subsystems Requirements - Physics Resource(s)	343	100%	14-Dec-20 A	28-Apr-22 A			01-Oct-20	13-Nov-20	0	3	\$531.81	C
S341810	003	Analyze IR/AH Safety Subsystems Requirements - CA-D Resource(s)	343	100%	14-Dec-20 A	28-Apr-22 A			01-Oct-20	13-Nov-20	0	178	\$21,111.42	C
S341900	003	Create Schematic Design and Specification Control Documents for IR/AH Saf	127	100%	01-Apr-22 A	30-Sep-22 A			16-Nov-20	30-Dec-20	0	164	\$19,769.72	C
S342000	003	Review IR/AH Safety Subsystems Design/Safety	106	100%	02-May-22 A	30-Sep-22 A			31-Dec-20	14-Jan-21	0	48	\$5,760.58	C
S342100	003	Address Action Items from IR/AH Safety Subsystems Design & Safety Reviews	106	100%	02-May-22 A	30-Sep-22 A			15-Jan-21	29-Jan-21	0	44	\$5,135.64	C
S342200	003	Design/Safety Reviews Complete, IR/AH Safety Subsystems Components Re	0	100%		30-Sep-22 A				29-Jan-21	0	0	\$0.00	C
S342300	003	Prepare IR/AH Safety Subsystems Components Procurement Package(s)	19	100%	02-Sep-22 A	30-Sep-22 A			01-Feb-21	12-Feb-21	0	28	\$3,537.51	C
S342400	003	Evaluate & Process IR/AH Safety Subsystems Components Bids	50	80%	03-Sep-22 A	16-Nov-22	16-Nov-22	48	16-Feb-21	29-Mar-21	0	76	\$9,325.18	C
S342500	003	Procure & Deliver IR/AH Safety Subsystems Components (leadtime and fabric	61	50%	18-Sep-22 A	16-Dec-22	15-Nov-22	48	30-Mar-21	22-Jun-21	0	146	\$17,684.83	C
S341700	003	Procure & Deliver IR/AH Safety Subsystems Components (leadtime and fabric	117	50%	04-Jul-22 A	21-Dec-22	21-Dec-22	48	30-Mar-21	22-Jun-21	32000	0	\$38,642.42	C
S342600	003	Perform IR/AH Safety Subsystems Components Acceptance	71	50%	22-Sep-22 A	06-Jan-23	06-Jan-23	48	23-Jun-21	07-Jul-21	0	108	\$14,953.87	C
S342700	003	IR/AH Safety Subsystems Components Ready for Installation	0	0%		06-Jan-23		48		07-Jul-21	0	0	\$0.00	C
POM02.02.04.02.06 Assembly Hall and Interaction Region Modifications			738		18-Oct-19 A	30-Sep-22 A			18-Oct-19	21-Dec-21	919310	2462	\$1,332,198.28	
S342900	003	Analyze Assembly Hall Modification Requirements	99	100%	04-Jan-21 A	25-May-21 A			01-Oct-20	13-Nov-20	0	212	\$25,105.67	C
S343000	003	Create Assembly Hall Modifications Schematic Design and Specification Con	51	100%	13-Sep-21 A	26-Nov-21 A			16-Nov-20	30-Dec-20	0	92	\$11,553.31	C
S343100	003	Review Assembly Hall Modifications Design/Safety	27	100%	18-Oct-21 A	26-Nov-21 A			31-Dec-20	14-Jan-21	0	29	\$3,590.71	C
S343200	003	Address Action Items from Assembly Hall Modifications Design & Safety Revie	53	100%	14-Feb-22 A	29-Apr-22 A			15-Jan-21	29-Jan-21	0	29	\$3,590.71	C
S343300	003	Design/Safety Reviews Complete, Assembly Hall Modifications Components I	0	100%		29-Apr-22 A				29-Jan-21	0	0	\$0.00	C
S343400	003	Prepare Assembly Hall Modifications Components Procurement Package(s)	18	100%	01-Apr-22 A	27-Apr-22 A			01-Feb-21	15-Mar-21	0	124	\$15,703.87	C
S343500	003	Evaluate & Process Assembly Hall Modifications Components Bids	19	100%	01-Apr-22 A	28-Apr-22 A			16-Mar-21	26-Apr-21	0	122	\$15,391.41	C
S343600	003	Procure & Deliver Assembly Hall Modifications Components (leadtime and fat	84	100%	26-May-22 A	25-Sep-22 A			27-Apr-21	01-Sep-21	0	224	\$26,535.78	C
S342800	003	Procure & Deliver Assembly Hall Modifications Components (leadtime and fat	84	100%	26-May-22 A	25-Sep-22 A			27-Apr-21	01-Sep-21	10000	0	\$11,838.98	C
S343700	003	Perform Assembly Hall Modifications Components Acceptance	17	100%	31-Aug-22 A	26-Sep-22 A			02-Sep-21	16-Sep-21	0	40	\$5,101.71	C
S343800	003	Assembly Hall Components Ready for Installation	0	100%		30-Sep-22 A				16-Sep-21	0	0	\$0.00	C
OBLG3568	008C	Start Track Modification - IR Delivery Acceptance M&S	1	100%	14-Jun-21 A	15-Jun-21 A			27-Aug-20	27-Aug-20	159310	0	\$159,310.00	C
S343809	008C	Start Track Modification - IR	0	100%	18-Oct-19 A				18-Oct-19		0	0	\$0.00	C
S343810	008C	Start Track Modification - IR Structural Analysis of Existing Track System and F	218	100%	18-Oct-19 A	31-Aug-20 A			18-Oct-19	03-Dec-19	0	160	\$21,071.74	C
S343812	008C	Start Track Modification - IR Prelim Design and Safety Review	41	100%	03-Aug-20 A	30-Sep-20 A			04-Dec-19	10-Dec-19	0	22	\$2,966.65	C
S343814	008C	Start Track Modification - IR Assembly and Detail Drawings	41	100%	03-Aug-20 A	30-Sep-20 A			11-Dec-19	24-Jan-20	0	156	\$19,073.61	C
S343816	008C	Start Track Modification - IR Final Design and Safety Review	41	100%	03-Aug-20 A	30-Sep-20 A			27-Jan-20	31-Jan-20	0	40	\$5,179.07	C
S343818	008C	Start Track Modification - IR Address Action Items from D&S Review	41	100%	03-Aug-20 A	30-Sep-20 A			03-Feb-20	14-Feb-20	0	32	\$3,965.61	C
S343820	008C	Start Track Modification - IR Design Complete	0	100%		30-Sep-20 A				14-Feb-20	0	0	\$0.00	C
S343822	008C	Start Track Modification - IR Prepare Procur. Package	10	100%	01-Oct-20 A	15-Oct-20 A			18-Feb-20	02-Mar-20	0	48	\$5,846.34	C
S343824	008C	Start Track Modification - IR Procur. Readiness Review	5	100%	16-Oct-20 A	22-Oct-20 A			03-Mar-20	09-Mar-20	0	40	\$5,179.07	C
S343826	008C	Start Track Modification - IR Provide Requirements to Procurements	5	100%	23-Oct-20 A	29-Oct-20 A			10-Mar-20	16-Mar-20	0	16	\$2,084.88	C
S343828	008C	Start Track Modification - IR Prepare and Send Solicitations	10	100%	02-Nov-20 A	16-Nov-20 A			17-Mar-20	30-Mar-20	0	8	\$1,042.44	C
S343830	008C	Start Track Modification - IR Vendor Responses	49	100%	17-Nov-20 A	29-Jan-21 A			31-Mar-20	13-Apr-20	0	8	\$1,042.44	C
S343832	008C	Start Track Modification - IR Vendor Selection	14	100%	11-Jan-21 A	29-Jan-21 A			14-Apr-20	20-Apr-20	0	8	\$1,042.44	C
S343834	008C	Start Track Modification - IR Contract Award	14	100%	11-Jan-21 A	29-Jan-21 A			21-Apr-20	04-May-20	0	0	\$0.00	C
S343836	008C	Start Track Modification - IR Develop and Submit Safety Plan	24	100%	11-Jan-21 A	16-Feb-21 A			05-May-20	02-Jun-20	0	24	\$3,127.32	C
S343838	008C	Start Track Modification - IR Notice to Proceed	0	100%		25-Feb-21 A				02-Jun-20	0	0	\$0.00	C
S343840	008C	Start Track Modification - IR Leadtime	106	100%	26-Feb-21 A	28-Jul-21 A			03-Jun-20	15-Jul-20	0	0	\$0.00	C
S343842	008C	Start Track Modification - IR BNL Oversight of Construction	82	100%	02-Jul-21 A	29-Oct-21 A			16-Jul-20	26-Aug-20	0	128	\$17,122.87	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S343844	008C	Start Track Modification - IR Delivery Acceptance Labor	13	100%	11-Oct-21 A	29-Oct-21 A			27-Aug-20	02-Sep-20	0	24	\$3,397.29	C
S343845	016	Start Track Modification - IR Delivery Acceptance M&S Outside BOA contracto	41	100%	31-Aug-21 A	29-Oct-21 A			30-Nov-20	04-Dec-20	140000	0	\$165,745.72	C
S343846	008C	Start Track Modification - IR Complete	0	100%		29-Oct-21 A				04-Dec-20	0	0	\$0.00	C
S343847	026	Addition of ReBar plus Concrete Forming and Placement for IR Tracks - Leadt	71	100%	21-Jul-21 A	30-Oct-21 A			02-Aug-21	20-Dec-21	0	0	\$0.00	C
S343848	008C	Start Track Modification - AH Structural Analysis of Existing Track System and	238	100%	18-Oct-19 A	30-Sep-20 A			18-Oct-19	03-Dec-19	0	180	\$24,432.15	C
S343849	026	Addition of ReBar plus Concrete Forming and Placement for IR Tracks - Accep	41	100%	31-Aug-21 A	29-Oct-21 A			21-Dec-21	21-Dec-21	550000	0	\$613,587.44	C
S343850	008C	Start Track Modification - AH Prelim Design and Safety Review	16	100%	08-Sep-20 A	30-Sep-20 A			04-Dec-19	10-Dec-19	0	36	\$5,033.02	C
S343852	008C	Start Track Modification - AH Assembly and Detail Drawings	16	100%	08-Sep-20 A	30-Sep-20 A			11-Dec-19	24-Jan-20	0	82	\$10,431.17	C
S343854	008C	Start Track Modification - AH Final Design and Safety Review	16	100%	08-Sep-20 A	30-Sep-20 A			27-Jan-20	31-Jan-20	0	48	\$6,392.54	C
S343856	008C	Start Track Modification - AH Address Action Items from D&S Review	16	100%	08-Sep-20 A	30-Sep-20 A			03-Feb-20	14-Feb-20	0	24	\$3,196.27	C
S343858	008C	Start Track Modification - AH Design Complete	0	100%		13-Oct-20 A				14-Feb-20	0	0	\$0.00	C
S343860	008C	Start Track Modification - AH Fabricate Track Plates Labor - Internal	39	100%	01-Feb-21 A	29-Mar-21 A			18-Feb-20	09-Jun-20	0	32	\$4,297.01	C
S343861	008C	Start Track Modification - AH Fabricate Track Plates M&S - Internal	41	100%	01-Feb-21 A	31-Mar-21 A			18-Feb-20	24-Feb-20	50000	0	\$58,034.22	C
S343862	008C	Start Track Modification - AH Install Track Plates and Blocks - Internal	41	100%	01-Feb-21 A	31-Mar-21 A			07-Dec-20	03-Feb-21	0	114	\$14,836.14	C
S343864	008C	Start Track Modification - AH Survey and Grout Plates Labor - External	63	100%	01-Feb-21 A	30-Apr-21 A			04-Feb-21	18-Feb-21	0	360	\$44,741.85	C
S343865	008C	Start Track Modification - AH Survey and Grout Plates M&S - External	63	100%	01-Feb-21 A	30-Apr-21 A			04-Feb-21	04-Feb-21	10000	0	\$11,606.84	C
S343866	008C	Start Track Modification - AH Finish AH Installation	0	100%		30-Apr-21 A				18-Feb-21	0	0	\$0.00	C
POM02.02.05 Integration and Installation			1551		01-Feb-17 A	17-Apr-23	18-Jan-23	0	01-Feb-17	14-Feb-23	801475	39815	\$5,149,302.43	
S1000279	003	Actuals - Labor - sPHENIX Integration and Installation FY17 16727	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	109	\$18,231.51	C
S1000319	003	Actuals - Labor - sPHENIX Integration and Installation FY17 16728	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	1	\$142.03	C
S1000359	003	Actuals - Labor - sPHENIX Integration and Installation FY18 16727	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	460	\$76,882.78	C
S1000399	003	Actuals - Labor - sPHENIX Integration and Installation FY18 16728	248	100%	01-Oct-17 A	28-Sep-18 A			01-Oct-17	28-Sep-18	0	3	\$523.00	C
S1001119	003	Actuals - Labor - sPHENIX Integration and Installation FY19 M8 16727	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	386	\$64,551.33	C
S1001159	003	Actuals - Labor - sPHENIX Integration and Installation FY19 M8 16728	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	14	\$2,280.82	C
S1005080	003	Actuals - Labor FY19 Jun-Sep 16727	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	230	\$38,498.20	C
S1005120	003	Actuals - Labor FY19 Jun-Sep 16728	83	100%	03-Jun-19 A	30-Sep-19 A			03-Jun-19	30-Sep-19	0	18	\$2,991.80	C
S344100	003	Actuals - Nonlabor - sPHENIX Integration and Installation FY17	168	100%	01-Feb-17 A	29-Sep-17 A			01-Feb-17	29-Sep-17	0	0	\$0.00	C
POM02.02.05.01 Subsystem Interface & Integration Plan			996		01-Feb-17 A	27-Jan-21 A			01-Feb-17	08-May-20	0	664	\$86,960.74	
S344300		Create Subsystem Interface & Integration Plan	398	100%	01-Feb-17 A	31-Aug-18 A			01-Feb-17	31-Aug-18	0	0	\$0.00	C
S344400		Create Subsystem Initial Envelope Drawings	39	100%	30-Mar-18 A	24-May-18 A			30-Mar-18	24-May-18	0	0	\$0.00	C
S344500		Create Subsystem Outline/Interface Drawings	83	100%	01-Jun-18 A	28-Sep-18 A			01-Jun-18	28-Sep-18	0	0	\$0.00	C
S344600	003	Create Cable Management Plan	104	100%	02-Jan-19 A	31-May-19 A			02-Jan-19	31-May-19	0	0	\$0.00	C
S344602	003	Create Cable Management Plan Split	104	100%	01-Jul-19 A	29-Nov-19 A			03-Jun-19	14-Aug-19	0	0	\$0.00	C
S344700		Create Services Management Plan	288	100%	02-Dec-19 A	27-Jan-21 A			03-Dec-19	31-Dec-19	0	152	\$19,997.99	C
S344800		Create Survey Plan	89	100%	15-Sep-20 A	27-Jan-21 A			02-Jan-20	30-Jan-20	0	112	\$14,530.62	C
S344900		Create Installation Plan	10	100%	12-Jan-21 A	27-Jan-21 A			31-Jan-20	28-Feb-20	0	240	\$30,040.74	C
S345000		Review Integration and Installation Plan Design/Safety	10	100%	12-Jan-21 A	27-Jan-21 A			02-Mar-20	27-Mar-20	0	60	\$8,929.95	C
S345100		Review Cable Management Plan	10	100%	12-Jan-21 A	27-Jan-21 A			30-Mar-20	10-Apr-20	0	40	\$5,725.95	C
S345200		Review Survey Plan	10	100%	12-Jan-21 A	27-Jan-21 A			13-Apr-20	24-Apr-20	0	30	\$3,867.75	C
S345300		Address Action Items from Subsystem Interface & Integration Plans (Interface,	10	100%	12-Jan-21 A	27-Jan-21 A			27-Apr-20	08-May-20	0	30	\$3,867.75	C
S345400		Design/Safety Reviews Complete, Ready to Begin Installation	0	100%		27-Jan-21 A				08-May-20	0	0	\$0.00	C
POM02.02.05.02 Infrastructure Installation			530		22-Feb-21 A	04-Apr-23	18-Jan-23	8	01-Feb-21	07-Dec-22	7750	5982	\$788,344.02	
S345500		Install IR HVAC - Labor - C-AD Resources	221	95%	03-Jan-22 A	16-Nov-22	16-Nov-22	101	16-Jun-21	29-Jun-21	0	184	\$23,837.17	C
S345600		Install IR HVAC - M&S	221	95%	03-Jan-22 A	16-Nov-22	16-Nov-22	101	16-Jun-21	29-Jun-21	250	0	\$295.97	C
S345700		Install Off Detector Safety Subsystems inc Vesda - Labor - C-AD Resources	212	25%	01-Apr-22 A	06-Feb-23	16-Nov-22	48	08-Jul-21	04-Aug-21	0	160	\$20,211.62	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S345910		Install Off Detector Safety Subsystems inc Vesda - M&S	212	25%	01-Apr-22 A	06-Feb-23	16-Nov-22	48	08-Jul-21	04-Aug-21	500	0	\$603.79	C
S345800		Install On Detector Safety Subsystems - Labor	63	10%	14-Sep-22 A	15-Dec-22	15-Dec-22	82	30-Dec-21	28-Jan-22	0	160	\$21,401.34	C
S345900		Install On Detector Safety Subsystems - M&S	63	10%	14-Sep-22 A	15-Dec-22	15-Dec-22	82	30-Dec-21	28-Jan-22	500	0	\$603.79	C
S1003679		Install Line Electric Power Distribution Off Detector - Labor - Physics Resource	297	95%	09-Sep-21 A	16-Nov-22	16-Nov-22	100	09-Sep-21	07-Dec-21	0	204	\$28,298.43	C
S346000		Install Line Electric Power Distribution Off Detector - Labor - CA-D Resource(s)	297	95%	09-Sep-21 A	16-Nov-22	16-Nov-22	100	09-Sep-21	07-Dec-21	0	32	\$4,999.47	C
S346200		Install Line Electric Power Distribution Off Detector - M&S	297	95%	09-Sep-21 A	16-Nov-22	16-Nov-22	100	09-Sep-21	07-Dec-21	500	0	\$591.95	C
S1003759	003	Install Line Electric Power Distribution On Detector - Labor - Physics Resource	55	50%	30-Aug-22 A	17-Nov-22	16-Nov-22	100	08-Dec-21	07-Mar-22	0	120	\$17,370.32	C
S346100	003	Install Line Electric Power Distribution On Detector - Labor - CA-D Resource(s)	55	50%	30-Aug-22 A	17-Nov-22	16-Nov-22	100	08-Dec-21	07-Mar-22	0	36	\$5,818.46	C
S346210		Install Line Electric Power Distribution On Detector - M&S	55	50%	30-Aug-22 A	17-Nov-22	16-Nov-22	100	08-Dec-21	07-Mar-22	500	0	\$597.46	C
S1002159		Install Detector Support Services Systems - Labor - Physics Resource(s)	127	100%	01-Apr-22 A	30-Sep-22 A			16-Feb-22	11-May-22	0	712	\$91,339.49	C
S346298	028	Build North and South work platforms	50	100%	17-Aug-22 A	28-Oct-22 A			04-Nov-22	07-Nov-22	0	30	\$3,741.13	C
S346300	028	Install Beampipe Temp Support - Labor - Physics Resource(s)	5	0%	23-Feb-23	01-Mar-23		0	10-Nov-22	10-Nov-22	0	76	\$10,201.85	C
S346310	028	Install Beampipe Temp Support - Labor - CA-D Resource(s)	5	0%	23-Feb-23	01-Mar-23		0	10-Nov-22	10-Nov-22	0	224	\$28,167.05	C
S346400	028	Install Beampipe Temp Support M&S	5	0%	23-Feb-23	01-Mar-23		0	10-Nov-22	10-Nov-22	500	0	\$603.79	C
S346402	028	Beampipe bakeout	10	0%	02-Mar-23	15-Mar-23		0	14-Nov-22	15-Nov-22	500	0	\$603.79	C
S346404	028	Install permanent Beampipe support	1	0%	04-Apr-23	04-Apr-23		4	07-Dec-22	07-Dec-22	500	0	\$603.79	C
S346410		Completed - Install Beampipe	0	0%		01-Mar-23		0		10-Nov-22	0	0	\$0.00	C
S346500		Install Cryogenics Supply Structural Support - Labor - Physics Resource(s)	4	100%	22-Feb-21 A	26-Feb-21 A			01-Feb-21	01-Mar-21	0	176	\$23,419.03	C
S346510		Install Cryogenics Supply Structural Support - Labor - CA-D Resource(s)	4	100%	22-Feb-21 A	26-Feb-21 A			01-Feb-21	01-Mar-21	0	360	\$44,717.60	C
S346600		Install Cryogenics Supply Structural Support - M&S	4	100%	22-Feb-21 A	26-Feb-21 A			01-Feb-21	01-Mar-21	500	0	\$580.34	C
S346700	033C	Install Non-IR Infrastructure - Labor - Physics Resource(s)	164	60%	01-Apr-22 A	23-Nov-22	23-Nov-22	96	08-Jun-22	03-Aug-22	0	240	\$32,224.34	C
S346710	033C	Install Non-IR Infrastructure - Labor - CA-D Resource(s)	164	60%	01-Apr-22 A	23-Nov-22	23-Nov-22	96	08-Jun-22	03-Aug-22	0	260	\$32,469.87	C
S346800	003	Install Non-IR Infrastructure - M&S	164	60%	01-Apr-22 A	23-Nov-22	23-Nov-22	96	08-Jun-22	03-Aug-22	500	0	\$600.95	C
S346900		Install Detector Support Services Systems - Labor - CA-D Resource(s)	127	100%	01-Apr-22 A	30-Sep-22 A			16-Feb-22	11-May-22	0	40	\$4,252.91	C
S347000		Install Detector Support Services Systems - M&S	127	100%	01-Apr-22 A	30-Sep-22 A			16-Feb-22	11-May-22	500	0	\$591.95	C
S347100		Install Electronics Racks Rackroom - Labor	196	100%	13-Sep-21 A	27-Jun-22 A			14-Jan-22	11-Apr-22	0	848	\$111,107.91	C
S347300		Install Electronics Racks Rackroom - M&S	196	100%	13-Sep-21 A	27-Jun-22 A			14-Jan-22	11-Apr-22	500	0	\$591.95	C
S347200		Install Electronics Racks On Carriage - Labor	167	75%	01-Apr-22 A	30-Nov-22	30-Nov-22	92	12-Apr-22	06-Jul-22	0	848	\$111,774.56	C
S347310		Install Electronics Racks On Carriage - M&S	167	75%	01-Apr-22 A	30-Nov-22	30-Nov-22	93	12-Apr-22	06-Jul-22	500	0	\$594.32	C
S347400		Install Gas and Cooling System Services - Labor	46	5%	24-Oct-22 A	30-Dec-22	30-Dec-22	72	29-Apr-22	25-Jul-22	0	936	\$121,069.20	C
S347500		Install Gas and Cooling System Services - M&S	46	5%	24-Oct-22 A	30-Dec-22	30-Dec-22	72	29-Apr-22	25-Jul-22	500	0	\$603.79	C
S347600		Install IR Electronics Cooling Water Off Detector - Labor - C-AD Resources	106	100%	01-Apr-22 A	31-Aug-22 A			03-Mar-22	30-Mar-22	0	188	\$23,677.15	C
S347800		Install IR Electronics Cooling Water Off Detector - M&S	95	100%	01-Apr-22 A	15-Aug-22 A			03-Mar-22	30-Mar-22	500	0	\$591.95	C
S347700		Install IR Electronics Cooling Water On Detector - Labor - Physics Resources	115	25%	01-Aug-22 A	18-Jan-23	18-Jan-23	61	14-Jan-22	11-Feb-22	0	148	\$18,993.62	C
S347810		Install IR Electronics Cooling Water On Detector - M&S	115	25%	01-Aug-22 A	18-Jan-23	18-Jan-23	61	14-Jan-22	11-Feb-22	500	0	\$591.95	C
POM02.02.05.03 Cradle Carriage Assembly/Installation			769		01-Oct-19 A	28-Oct-22 A			01-Oct-19	29-Jun-22	52500	4396	\$625,662.94	
S1002239		Install magnet mounting feet - Labor - Physics Resource(s)	17	100%	06-Sep-21 A	30-Sep-21 A			24-Aug-21	07-Sep-21	0	178	\$21,902.46	C
S347900		Design Cradle Carriage Integration/Installation Tooling/Fixtures - Physics Res	85	100%	01-Oct-19 A	05-Feb-20 A			01-Oct-19	05-Feb-20	0	180	\$21,204.84	C
S347910		Design Cradle Carriage Integration/Installation Tooling/Fixtures - CA-D Resou	85	100%	01-Oct-19 A	05-Feb-20 A			01-Oct-19	05-Feb-20	0	160	\$22,228.78	C
S348000		Fabricate/Procure Cradle Carriage Integration/Installation Tooling/Fixtures - L&	105	100%	01-May-20 A	30-Sep-20 A			06-Feb-20	27-Jul-20	0	208	\$25,416.91	C
S348010		Fabricate/Procure Cradle Carriage Integration/Installation Tooling/Fixtures - L&	105	100%	01-May-20 A	30-Sep-20 A			06-Feb-20	27-Jul-20	0	212	\$30,994.88	C
S348100		Fabricate/Procure Cradle Carriage Integration/Installation Tooling/Fixtures - M	21	100%	01-Jul-20 A	31-Jul-20 A			06-Feb-20	27-Jul-20	40000	0	\$45,699.10	C
S348200		Prepare Cradle Carriage Integration/Installation Tooling/Fixtures/Procedures	20	100%	01-Oct-20 A	29-Oct-20 A			28-Jul-20	08-Sep-20	0	78	\$10,807.16	C
S348210		Prepare Cradle Carriage Integration/Installation Tooling/Fixtures/Procedures	20	100%	01-Oct-20 A	29-Oct-20 A			28-Jul-20	08-Sep-20	0	60	\$8,757.57	C
S348300		Review sPHENIX Cradle Carriage Integration/Installation Tooling/Fixtures/Pro	4	100%	26-Oct-20 A	29-Oct-20 A			09-Sep-20	22-Sep-20	0	16	\$2,153.83	C

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S348310		Review sPHENIX Cradle Carriage Integration/Installation Tooling/Fixtures/Pro	4	100%	26-Oct-20 A	29-Oct-20 A			09-Sep-20	22-Sep-20	0	20	\$2,896.30	C
S348400		Address Action Items from Cradle Carriage Integration/Installation Tooling/Fixt	4	100%	26-Oct-20 A	29-Oct-20 A			23-Sep-20	06-Oct-20	0	16	\$2,153.83	C
S348410		Address Action Items from Cradle Carriage Integration/Installation Tooling/Fixt	4	100%	26-Oct-20 A	29-Oct-20 A			23-Sep-20	06-Oct-20	0	8	\$1,213.46	C
S348500		Design/Safety Reviews Complete, Cradle Carriage Integration/Installation Too	0	100%		29-Oct-20 A				06-Oct-20	0	0	\$0.00	C
S348600		Ready to Assemble Cradle Carriage in AH	0	100%		03-May-21 A				08-Feb-21	0	0	\$0.00	C
S348700		Assemble base, carriage alignment and carriage roller supports - Labor - Phys	41	100%	03-May-21 A	30-Jun-21 A			19-Feb-21	15-Apr-21	0	512	\$60,729.65	C
S348710		Assemble base, carriage alignment and carriage roller supports - Labor - CA-I	41	100%	03-May-21 A	30-Jun-21 A			19-Feb-21	15-Apr-21	0	352	\$46,727.55	C
S348800		Assemble base, carriage alignment and carriage roller supports - M&S	41	100%	03-May-21 A	30-Jun-21 A			19-Feb-21	15-Apr-21	2500	0	\$2,901.71	C
S348900		Assemble HCal cradle onto base - Labor - Physics Resource(s)	21	100%	01-Jun-21 A	30-Jun-21 A			16-Apr-21	13-May-21	0	112	\$13,711.32	C
S348910		Assemble HCal cradle onto base - Labor - CA-D Resource(s)	21	100%	01-Jun-21 A	30-Jun-21 A			16-Apr-21	13-May-21	0	104	\$14,312.02	C
S348915		Assemble HCal cradle onto base - M&S	21	100%	01-Jun-21 A	30-Jun-21 A			16-Apr-21	13-May-21	3000	0	\$3,482.05	C
S348920		Completed - Assemble HCal cradle onto base	0	100%		30-Jun-21 A				13-May-21	0	0	\$0.00	C
S349100		Install magnet mounting feet - Labor - CA-D Resource(s)	17	100%	06-Sep-21 A	30-Sep-21 A			24-Aug-21	07-Sep-21	0	4	\$624.93	C
S349200		Install magnet mounting feet - M&S	17	100%	06-Sep-21 A	30-Sep-21 A			24-Aug-21	07-Sep-21	3000	0	\$3,551.69	C
S349300	028	Install platforms & access - Labor - Physics Resource(s)	93	100%	01-Mar-22 A	12-Jul-22 A			15-Dec-21	13-Jan-22	0	272	\$33,494.21	C
S349310	028	Install platforms & access - Labor - CA-D Resource(s)	93	100%	01-Mar-22 A	12-Jul-22 A			15-Dec-21	13-Jan-22	0	328	\$47,298.12	C
S349400	028	Install platforms & access - M&S	93	100%	01-Mar-22 A	12-Jul-22 A			15-Dec-21	13-Jan-22	1000	0	\$1,183.90	C
S349410	003	Completed - Install platforms & access	0	100%		26-Jul-22 A				13-Jan-22	0	0	\$0.00	C
S349500	028	Install Pole Tips - Labor - Physics Resource(s)	103	100%	01-Mar-22 A	26-Jul-22 A			22-Dec-21	06-Jan-22	0	80	\$9,967.06	C
S349510		Install Pole Tips - Labor - CA-D Resource(s)	103	100%	01-Mar-22 A	26-Jul-22 A			22-Dec-21	06-Jan-22	0	336	\$48,254.16	C
S349600		Install Pole Tips - M&S	103	100%	01-Mar-22 A	26-Jul-22 A			22-Dec-21	06-Jan-22	3000	0	\$3,551.69	C
S349610	028	Completed - Install Pole Tips	0	100%		26-Jul-22 A				06-Jan-22	0	0	\$0.00	C
S349620	033C	Install NE Temp Track	5	100%	18-Apr-22 A	25-Apr-22 A			02-May-22	09-May-22	0	0	\$0.00	C
S349630	033C	Shuffle #1 Shield Block Removal	19	100%	01-Apr-22 A	28-Apr-22 A			10-May-22	23-May-22	0	0	\$0.00	C
S349640	033C	Shuffle #2 Intel Removal	20	100%	01-Apr-22 A	29-Apr-22 A			24-May-22	06-Jun-22	0	0	\$0.00	C
S349645	033C	Install South Pole Tips	41	100%	01-Jun-22 A	29-Jul-22 A			07-Jun-22	13-Jun-22	0	0	\$0.00	C
S349650	033C	Install Cables on Upper 5 Sectors of OHCal	17	100%	02-May-22 A	25-May-22 A			14-Jun-22	15-Jun-22	0	0	\$0.00	C
S349660	033C	Setup Track Alignment Components	3	100%	01-Aug-22 A	03-Aug-22 A			16-Jun-22	20-Jun-22	0	0	\$0.00	C
S349665	033C	Align Carriage Base, Dismantle Fixtures	3	100%	04-Aug-22 A	08-Aug-22 A			21-Jun-22	23-Jun-22	0	0	\$0.00	C
S349670	033C	Install Upper Platform Joists and Components for Poletips and Cryoplatforms	51	100%	28-Apr-22 A	12-Jul-22 A			07-Jun-22	15-Jun-22	0	240	\$29,057.32	C
S349680	033C	Install Mid-Level Platforms and West Extension Structures	55	100%	28-Apr-22 A	18-Jul-22 A			16-Jun-22	21-Jun-22	0	240	\$29,057.32	C
S349690	033C	Install Upper Platform West Extension Structure	19	100%	20-Jun-22 A	16-Jul-22 A			16-Jun-22	17-Jun-22	0	240	\$29,057.32	C
S349691	033C	Install Upper Platform Fall Protection	25	100%	20-Jun-22 A	26-Jul-22 A			16-Jun-22	29-Jun-22	0	240	\$29,057.32	C
S349692	033C	Test and Troubleshoot North Poletip Doors	91	100%	20-Jun-22 A	28-Oct-22 A			16-Jun-22	20-Jun-22	0	0	\$0.00	C
S349693	033C	Test and Troubleshoot South Poletip Doors	89	100%	22-Jun-22 A	28-Oct-22 A			21-Jun-22	27-Jun-22	0	0	\$0.00	C
S349694	033C	Install Trapped West Lower Racks with Forklift	20	100%	01-Apr-22 A	29-Apr-22 A			07-Jun-22	09-Jun-22	0	40	\$4,842.89	C
S349695	033C	Install Upper Platform Cable Tray	16	100%	03-May-22 A	25-May-22 A			20-Jun-22	24-Jun-22	0	80	\$9,685.77	C
S349696	033C	Install West Side Cable Tray	68	100%	18-Apr-22 A	25-Jul-22 A			22-Jun-22	28-Jun-22	0	80	\$9,685.77	C
POM02.02.05.04 Outer Hcal Installation			1478		01-Feb-17 A	29-Dec-22	30-Nov-22	73	01-Feb-17	27-May-22	131776	6982	\$969,362.13	
OBLG3569E	008C	Fabricate/Procure Outer HCal Integration/Installation Tooling/Fixtures - M&S	141	100%	01-Oct-19 A	27-Apr-20 A			03-Jun-19	26-Aug-19	68276	0	\$68,276.00	C
S1002279		Review Outer HCal Integration/Installation Tooling/Fixtures/Procedures Safety	6	100%	15-Mar-21 A	23-Mar-21 A			28-Jul-20	10-Aug-20	0	24	\$3,094.20	C
S1002359		Address Action Items from Outer Hcal Integration/Installation Tooling/Fixtures/f	6	100%	15-Mar-21 A	23-Mar-21 A			11-Aug-20	24-Aug-20	0	24	\$3,094.20	C
S1002439		Transport Assembled Outer HCal Sectors to AH (Partial Shipment) - Labor - PI	0	100%	29-Jun-21 A	29-Jun-21 A			14-May-21	27-May-21	0	400	\$50,178.50	C
S1002519		Install Partial Outer HCal (Prior to SC Magnet Install) - Labor - Physics Resour	70	100%	21-Jun-21 A	29-Sep-21 A			28-May-21	23-Aug-21	0	1224	\$152,827.43	C
S1002599	004	Transport Remainder of Outer Hcal Sectors to AH - Labor - Physics Resource(s)	48	100%	16-Dec-21 A	28-Feb-22 A			05-Oct-21	19-Oct-21	0	400	\$51,683.85	C

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S1002679		Install Remainder of Outer HCal Sectors - Labor - Physics Resource(s)	48	100%	16-Dec-21 A	28-Feb-22 A			13-Oct-21	24-Nov-21	0	1120	\$143,426.83	C
S349700		Design Outer HCal Integration/Installation Tooling/Fixtures FY18	417	100%	01-Feb-17 A	28-Sep-18 A			01-Feb-17	28-Sep-18	0	0	\$0.00	C
S349800	003	Design Outer HCal Integration/Installation Tooling/Fixtures FY20	37	100%	01-Oct-19 A	25-Nov-19 A			01-Oct-19	02-Apr-20	0	114	\$14,004.21	C
S349900	003	Fabricate/Procure Outer HCal Integration/Installation Tooling/Fixtures - Labor	49	100%	15-Nov-19 A	30-Jan-20 A			03-Apr-20	26-Jun-20	0	144	\$18,024.45	C
S350000	003	Fabricate/Procure Outer HCal Integration/Installation Tooling/Fixtures - M&S	49	100%	15-Nov-19 A	30-Jan-20 A			03-Apr-20	26-Jun-20	60000	0	\$68,275.55	C
S350100		Prepare Outer HCal Integration/Installation Tooling/Fixtures Procedures	110	100%	16-Sep-20 A	26-Feb-21 A			29-Jun-20	27-Jul-20	0	72	\$9,828.78	C
S350200		Review Outer HCal Integration/Installation Tooling/Fixtures/Procedures Safety	6	100%	15-Mar-21 A	23-Mar-21 A			28-Jul-20	10-Aug-20	0	8	\$1,019.64	C
S350300		Address Action Items from Outer Hcal Integration/Installation Tooling/Fixtures/f	6	100%	15-Mar-21 A	23-Mar-21 A			11-Aug-20	24-Aug-20	0	8	\$1,019.64	C
S350400		Design/Safety Reviews Complete, Outer HCal Integration/Installation Tooling/l	0	100%		31-Mar-21 A				24-Aug-20	0	0	\$0.00	C
S350500		Outer HCal Sectors Ready for Installation	0	100%		31-Mar-21 A				23-Mar-21	0	0	\$0.00	C
S350600		Transport Assembled Outer HCal Sectors to AH (Partial Shipment) - Labor - C.	1	100%	29-Jun-21 A	30-Jun-21 A			14-May-21	27-May-21	0	8	\$825.81	C
S350700		Transport Assembled Outer HCal Sectors to AH (Partial Shipment) - M&S	1	100%	29-Jun-21 A	30-Jun-21 A			14-May-21	27-May-21	500	0	\$580.34	C
S350800		Install Partial Outer HCal (Prior to SC Magnet Install) - Labor - CA-D Resource	70	100%	21-Jun-21 A	29-Sep-21 A			28-May-21	23-Aug-21	0	628	\$84,289.61	C
S350900		Install Partial Outer HCal (Prior to SC Magnet Install) - M&S	70	100%	21-Jun-21 A	29-Sep-21 A			28-May-21	23-Aug-21	500	0	\$581.74	C
S350910		Completed - Install Partial Outer HCal (Prior to SC Magnet Install)	0	100%		24-Sep-21 A				23-Aug-21	0	0	\$0.00	C
S350950		Install Large Support Rings and Cross Braces	24	100%	22-Nov-21 A	29-Dec-21 A			28-Sep-21	04-Oct-21	0	80	\$11,092.23	C
S351000	004	Transport Remainder of Outer Hcal Sectors to AH - Labor - CA-D Resource(s)	46	100%	20-Dec-21 A	28-Feb-22 A			05-Oct-21	19-Oct-21	0	8	\$850.58	C
S351100	004	Transport Remainder of Outer Hcal Sectors to AH - M&S	46	100%	20-Dec-21 A	28-Feb-22 A			05-Oct-21	19-Oct-21	500	0	\$591.95	C
S351200		Install Remainder of Outer HCal Sectors - Labor - CA-D Resource(s)	46	100%	20-Dec-21 A	28-Feb-22 A			13-Oct-21	24-Nov-21	0	508	\$69,879.34	C
S351300		Install Remainder of Outer HCal Sectors - M&S	46	100%	20-Dec-21 A	28-Feb-22 A			13-Oct-21	24-Nov-21	500	0	\$591.95	C
S351310		Completed - Install Remainder of Outer HCal Sectors	0	100%		28-Feb-22 A				24-Nov-21	0	0	\$0.00	C
S351400		Align/Survey Outer Hcal to Centerline - Labor - Physics Resource(s)	4	100%	21-Feb-22 A	28-Feb-22 A			29-Nov-21	03-Dec-21	0	24	\$2,905.73	C
S351410		Align/Survey Outer Hcal to Centerline - Labor - CA-D Resource(s)	4	100%	21-Feb-22 A	28-Feb-22 A			29-Nov-21	03-Dec-21	0	140	\$17,879.38	C
S351500		Align/Survey Outer Hcal to Centerline - M&S	4	100%	21-Feb-22 A	28-Feb-22 A			29-Nov-21	03-Dec-21	500	0	\$591.95	C
S351600		Install Outer HCal Cables and Services - Labor	190	90%	01-Mar-22 A	30-Nov-22	30-Nov-22	73	06-Dec-21	04-Jan-22	0	320	\$41,556.00	C
S351700		Install Outer HCal Cables and Services - M&S	190	90%	01-Mar-22 A	30-Nov-22	30-Nov-22	93	06-Dec-21	04-Jan-22	500	0	\$591.95	C
S351750	033C	Connect OHCal Cables to Racks	20	0%	01-Dec-22*	29-Dec-22		73	02-May-22	27-May-22	0	0	\$0.00	C
S351800		Review Outer HCal for Operational Readiness (ORR)	20	100%	01-Apr-22 A	29-Apr-22 A			05-Jan-22	19-Jan-22	0	32	\$4,155.60	C
S351900		Address Action Items from Outer Hcal ORR	20	100%	01-Apr-22 A	29-Apr-22 A			20-Jan-22	02-Feb-22	0	32	\$4,155.60	C
S352000		Commission Outer HCal - Labor	20	100%	01-Apr-22 A	29-Apr-22 A			03-Feb-22	03-Mar-22	0	1024	\$142,890.66	C
S352100	003	Commission Outer HCal - Labor	20	100%	01-Apr-22 A	29-Apr-22 A			03-Feb-22	03-Mar-22	0	640	\$0.00	T
S352200		Commission Outer HCal - M&S	20	100%	01-Apr-22 A	29-Apr-22 A			03-Feb-22	03-Mar-22	500	0	\$598.46	C
POM02.02.05.05 SC Magnet Installation			509		15-Apr-20 A	28-Apr-22 A			01-Oct-20	27-Dec-21	43500	2240	\$345,799.32	
S1003399	003	Design SC Magnet Integration/Installation Tooling/Fixtures/Procedures - Physi	117	100%	15-Apr-20 A	30-Sep-20 A			01-Oct-20	13-Nov-20	0	264	\$35,128.55	C
S1003479		Fabricate/Procure SC Magnet Integration/Installation Tooling/Fixtures - Labor	117	100%	17-Mar-21 A	31-Aug-21 A			16-Nov-20	12-Feb-21	0	50	\$6,901.40	C
S1003559		Prepare SC Magnet Integration/Installation Procedures - Physics Resource(s)	10	100%	08-Feb-21 A	23-Feb-21 A			16-Feb-21	01-Mar-21	0	30	\$4,209.12	C
S1003639		Review sPHENIX SC Magnet Integration/Installation Tooling/Fixtures/Procedu	28	100%	15-Dec-20 A	27-Jan-21 A			02-Mar-21	15-Mar-21	0	24	\$3,094.20	C
S352300	003	Design SC Magnet Integration/Installation Tooling/Fixtures/Procedures - CA-D	117	100%	15-Apr-20 A	30-Sep-20 A			01-Oct-20	13-Nov-20	0	40	\$6,067.32	C
S352400		Fabricate/Procure SC Magnet Integration/Installation Tooling/Fixtures - Labor	117	100%	17-Mar-21 A	31-Aug-21 A			16-Nov-20	12-Feb-21	0	10	\$1,516.83	C
S352500		Fabricate/Procure SC Magnet Integration/Installation Tooling/Fixtures - M&S	117	100%	17-Mar-21 A	31-Aug-21 A			16-Nov-20	12-Feb-21	30000	0	\$34,820.53	C
S352600		Prepare SC Magnet Integration/Installation Procedures - CA-D Resource(s)	10	100%	08-Feb-21 A	23-Feb-21 A			16-Feb-21	01-Mar-21	0	88	\$11,974.47	C
S352700		Review sPHENIX SC Magnet Integration/Installation Tooling/Fixtures/Procedu	4	100%	22-Mar-21 A	26-Mar-21 A			02-Mar-21	15-Mar-21	0	8	\$1,144.78	C
S352800		Address Action Items from SC Magnet Integration/Installation Tooling/Fixtures/	4	100%	22-Mar-21 A	26-Mar-21 A			16-Mar-21	29-Mar-21	0	24	\$3,094.20	C
S352900		Design/Safety Reviews Complete, sPHENIX SC Magnet Integration/Installatio	0	100%		30-Sep-21 A				29-Mar-21	0	0	\$0.00	C
S353000		Ready to Install SC Magnet	0	100%		30-Sep-21 A				29-Mar-21	0	0	\$0.00	C

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S353100		Transport SC Magnet from 912 to AH - Labor - Physics Resource(s)	18	100%	04-Oct-21 A	29-Oct-21 A			08-Sep-21	09-Sep-21	0	52	\$6,858.33	C
S353110		Transport SC Magnet from 912 to AH - Labor - CA-D Resource(s)	18	100%	04-Oct-21 A	29-Oct-21 A			08-Sep-21	09-Sep-21	0	96	\$13,491.51	C
S353200		Transport SC Magnet from 912 to AH - M&S	18	100%	04-Oct-21 A	29-Oct-21 A			08-Sep-21	09-Sep-21	1500	0	\$1,775.85	C
S353300		Install SC Magnet on Cradle - Labor - Physics Resource(s)	18	100%	04-Oct-21 A	29-Oct-21 A			10-Sep-21	13-Sep-21	0	50	\$6,616.19	C
S353310		Install SC Magnet on Cradle - Labor - CA-D Resource(s)	18	100%	04-Oct-21 A	29-Oct-21 A			10-Sep-21	13-Sep-21	0	96	\$13,491.51	C
S353400		Install SC Magnet on Cradle - M&S	18	100%	04-Oct-21 A	29-Oct-21 A			10-Sep-21	13-Sep-21	1500	0	\$1,775.85	C
S353410		Completed - Install SC Magnet on Cradle	0	100%		29-Oct-21 A				13-Sep-21	0	0	\$0.00	C
S353500		Align/Survey SC Magnet to Cradle - Labor - Physics Resource(s)	18	100%	04-Oct-21 A	29-Oct-21 A			14-Sep-21	27-Sep-21	0	80	\$9,685.77	C
S353510		Align/Survey SC Magnet to Cradle - Labor - CA-D Resource(s)	18	100%	04-Oct-21 A	29-Oct-21 A			14-Sep-21	27-Sep-21	0	400	\$50,287.43	C
S353600		Align/Survey SC Magnet to Cradle - M&S	18	100%	04-Oct-21 A	29-Oct-21 A			14-Sep-21	27-Sep-21	3500	0	\$4,143.64	C
S353700		Prep SC Magnet for Run (Cryo) - Labor - Physics Resource(s)	17	100%	01-Nov-21 A	29-Nov-21 A			28-Sep-21	26-Oct-21	0	48	\$6,374.04	C
S353710		Prep SC Magnet for Run (Cryo) - Labor - CA-D Resource(s)	17	100%	01-Nov-21 A	29-Nov-21 A			28-Sep-21	26-Oct-21	0	376	\$48,268.37	C
S353800		Prep SC Magnet for Run (Cryo) - M&S	17	100%	01-Nov-21 A	29-Nov-21 A			28-Sep-21	26-Oct-21	3500	0	\$4,143.64	C
S353900		Prep SC Magnet for Run (Electric) - Labor - Physics Resource(s)	17	100%	01-Nov-21 A	29-Nov-21 A			27-Oct-21	24-Nov-21	0	192	\$23,808.44	C
S353910		Prep SC Magnet for Run (Electric) - Labor - CA-D Resource(s)	17	100%	01-Nov-21 A	29-Nov-21 A			27-Oct-21	24-Nov-21	0	216	\$28,896.83	C
S354000		Prep SC Magnet for Run (Electric) - M&S	17	100%	01-Nov-21 A	29-Nov-21 A			27-Oct-21	24-Nov-21	3500	0	\$4,143.64	C
S354100	004	SC Magnet - Operational Readiness Review (ORR) - Physics Resource(s)	9	100%	01-Apr-22 A	14-Apr-22 A			29-Nov-21	10-Dec-21	0	24	\$3,187.02	C
S354110	004	SC Magnet - Operational Readiness Review (ORR) - CA-D Resource(s)	9	100%	01-Apr-22 A	14-Apr-22 A			29-Nov-21	10-Dec-21	0	24	\$3,856.41	C
S354200		Address Action Items from SC Magnet ORR - Physics Resource(s)	9	100%	15-Apr-22 A	28-Apr-22 A			13-Dec-21	27-Dec-21	0	24	\$3,187.02	C
S354210		Address Action Items from SC Magnet ORR - CA-D Resource(s)	9	100%	15-Apr-22 A	28-Apr-22 A			13-Dec-21	27-Dec-21	0	24	\$3,856.41	C
POM02.02.05.06 Inner Hcal Installation			1459		01-Feb-17 A	01-Dec-22		92	01-Feb-17	29-Apr-22	422949	7954	\$796,373.33	
OBLG3569€	008C	Fabricate/Procure Inner HCal Integration/Installation Tooling/Fixtures - M&S	0	100%	24-Sep-21 A	24-Sep-21 A			29-Jun-20	29-Jun-20	91034	0	\$91,034.00	C
S1003719		Transport assembled Inner HCal Sectors to AH - Labor - Physics Resource(s)	11	100%	08-Feb-21 A	24-Feb-21 A			15-Mar-21	09-Apr-21	0	312	\$39,024.91	C
S1003799	028	Transport & Install IHCal Barrel - Labor - Phys	17	100%	01-Jun-22 A	24-Jun-22 A			25-Jan-22	26-Jan-22	0	42	\$5,366.32	C
S354300		Design Inner HCal Integration/Installation Tooling/Fixtures FY18	417	100%	01-Feb-17 A	28-Sep-18 A			01-Feb-17	28-Sep-18	0	0	\$0.00	C
S354400	003	Design Inner HCal Integration/Installation Tooling/Fixtures FY20	520	100%	01-Oct-19 A	29-Oct-21 A			01-Oct-19	02-Apr-20	0	180	\$22,530.56	C
S354500	003	Fabricate/Procure Inner HCal Integration/Installation Tooling/Fixtures - Labor	56	100%	06-Sep-21 A	30-Nov-21 A			03-Apr-20	26-Jun-20	0	160	\$23,590.90	C
S354600	016	Fabricate/Procure Inner HCal Integration/Installation Tooling/Fixtures (North sl	13	100%	19-Nov-21 A	10-Dec-21 A			30-Jun-20	23-Sep-20	80000	0	\$94,711.84	C
S354610	029C	IHCal Fixture South Slider Beam & stanchions	88	100%	19-Nov-21 A	31-Mar-22 A			11-Jan-22	18-Jan-22	80805	0	\$90,147.15	C
S354620	029C	IHCal A-Frame stand	13	100%	19-Nov-21 A	10-Dec-21 A			01-Dec-21	06-Dec-21	44894	0	\$50,084.35	C
S354630	029C	IHCal Barrel Fabrication Sled	38	100%	19-Nov-21 A	18-Jan-22 A			07-Dec-21	10-Dec-21	47818	0	\$53,346.41	C
S354640	029C	IHCal Barrel fab parts, end ring attachments	5	100%	19-Nov-21 A	30-Nov-21 A			13-Dec-21	16-Dec-21	14792	0	\$16,502.16	C
S354650	029C	IHCal supports	5	100%	19-Nov-21 A	30-Nov-21 A			17-Dec-21	21-Dec-21	8731	0	\$9,740.42	C
S354660	029C	IHCal barrel fabrication sled half-moon plate	5	100%	19-Nov-21 A	30-Nov-21 A			22-Dec-21	27-Dec-21	8000	0	\$8,924.91	C
S354670	029C	IHCal motor and gearbox for rings	65	100%	19-Nov-21 A	28-Feb-22 A			28-Dec-21	30-Dec-21	14625	0	\$16,315.85	C
S354680	032C	IHCal Stanchion Fab	22	100%	01-Mar-22 A	31-Mar-22 A			01-Apr-22	29-Apr-22	14625	0	\$16,315.85	C
S354690	032C	IHCal Stanchion Weldment	22	100%	01-Mar-22 A	31-Mar-22 A			01-Apr-22	29-Apr-22	14625	0	\$16,315.85	C
S354700		Prepare Inner HCal Integration/Installation Tooling/Fixtures Procedures	119	100%	08-Feb-21 A	28-Jul-21 A			24-Sep-20	22-Oct-20	0	120	\$16,836.47	C
S354800		Review Inner HCal Integration/Installation Tooling/Fixtures/Procedures Safety,	95	100%	15-Jun-21 A	29-Oct-21 A			23-Oct-20	05-Nov-20	0	24	\$3,187.02	C
S354900		Address Action Items from Inner Hcal Integration/Installation Tooling/Fixtures/F	31	100%	15-Nov-21 A	31-Dec-21 A			06-Nov-20	20-Nov-20	0	24	\$3,187.02	C
S355000		Design/Safety Reviews Complete, Inner HCal Integration/Installation Tooling/F	0	100%		27-Dec-21 A				20-Nov-20	0	0	\$0.00	C
S355100	028	Delete Inner HCal Sectors Ready for Installation	0	100%		28-Sep-21 A				03-Jun-19	0	0	\$0.00	C
S355200		Transport assembled Inner HCal Sectors to AH - Labor - CA-D Resource(s)	11	100%	08-Feb-21 A	24-Feb-21 A			03-Feb-21	03-Mar-21	0	8	\$1,213.46	C
S355300		Delete Transport assembled Inner HCal Sectors to AH - M&S	11	100%	08-Feb-21 A	24-Feb-21 A			15-Mar-21	05-Apr-21	500	0	\$580.34	C
S355310	028	Add scintillating tiles first 8 IHCal sectors	47	100%	23-Aug-21 A	29-Oct-21 A			01-Jul-21	23-Jul-21	0	300	\$0.00	C

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S355312	028	Add electronics first 8 IHCal sectors	78	100%	06-Sep-21 A	31-Dec-21 A			09-Jul-21	30-Jul-21	0	300	\$0.00	C
S355314	028	LED test/Light tight test first 8 IHCal sectors	78	100%	06-Sep-21 A	31-Dec-21 A			16-Jul-21	06-Aug-21	0	300	\$0.00	C
S355316	028	Cosmic test first 8 IHCal sectors	78	100%	06-Sep-21 A	31-Dec-21 A			23-Jul-21	13-Aug-21	0	300	\$0.00	C
S355318	028	Move first 8 IHCal sectors to assembly area	37	100%	06-Sep-21 A	29-Oct-21 A			27-Jul-21	13-Aug-21	0	16	\$1,937.15	C
S355320	028	Add scintillating tiles second 8 IHCal sectors	13	100%	11-Oct-21 A	29-Oct-21 A			23-Aug-21	14-Sep-21	0	300	\$0.00	C
S355322	028	Add electronics second 8 IHCal sectors	54	100%	11-Oct-21 A	31-Dec-21 A			30-Aug-21	21-Sep-21	0	300	\$0.00	C
S355324	028	LED test/Light tight test second 8 IHCal sectors	8	100%	20-Dec-21 A	31-Dec-21 A			07-Sep-21	28-Sep-21	0	300	\$0.00	C
S355326	028	Cosmic test second 8 IHCal sectors	12	100%	13-Dec-21 A	30-Dec-21 A			14-Sep-21	05-Oct-21	0	300	\$0.00	C
S355328	028	Move second 8 IHCal sectors to assembly area	13	100%	11-Oct-21 A	29-Oct-21 A			16-Sep-21	05-Oct-21	0	16	\$1,937.15	C
S355330	028	Add scintillating tiles third 8 IHCal sectors	13	100%	11-Oct-21 A	29-Oct-21 A			01-Oct-21	25-Oct-21	0	300	\$0.00	C
S355332	028	Add electronics third 8 IHCal sectors	54	100%	11-Oct-21 A	31-Dec-21 A			08-Oct-21	01-Nov-21	0	300	\$0.00	C
S355334	028	LED test/Light tight test third 8 IHCal sectors	33	100%	13-Dec-21 A	31-Jan-22 A			18-Oct-21	08-Nov-21	0	300	\$0.00	C
S355336	028	Cosmic test third 8 IHCal sectors	27	100%	20-Dec-21 A	31-Jan-22 A			17-Nov-21	10-Dec-21	0	300	\$0.00	C
S355338	028	Move third 8 IHCal sectors to assembly area	13	100%	13-Dec-21 A	31-Dec-21 A			19-Nov-21	10-Dec-21	0	16	\$1,937.15	C
S355340	028	Add scintillating tiles fourth 8 IHCal sectors	40	100%	23-Nov-21 A	24-Jan-22 A			22-Nov-21	15-Dec-21	0	300	\$0.00	C
S355342	028	Add electronics fourth 8 IHCal sectors	26	100%	20-Dec-21 A	27-Jan-22 A			01-Dec-21	22-Dec-21	0	300	\$0.00	C
S355344	028	LED test/Light tight test fourth 8 IHCal sectors	27	100%	20-Dec-21 A	31-Jan-22 A			08-Dec-21	30-Dec-21	0	300	\$0.00	C
S355346	028	Cosmic test fourth 8 IHCal sectors	27	100%	20-Dec-21 A	31-Jan-22 A			15-Dec-21	07-Jan-22	0	300	\$0.00	C
S355348	028	Move fourth 8 IHCal sectors to assembly area	16	100%	06-Dec-21 A	29-Dec-21 A			17-Dec-21	07-Jan-22	0	16	\$1,937.15	C
S355350	028	Assemble first 8 IHCal sectors into barrel on fixture	4	100%	21-Feb-22 A	28-Feb-22 A			17-Aug-21	23-Aug-21	0	16	\$1,937.15	C
S355352	028	Assemble second 8 IHCal sectors into barrel on fixture	4	100%	21-Feb-22 A	28-Feb-22 A			07-Oct-21	14-Oct-21	0	32	\$3,874.31	C
S355354	028	Assemble third 8 IHCal sectors into barrel on fixture	22	100%	01-Mar-22 A	31-Mar-22 A			07-Dec-21	13-Dec-21	0	32	\$3,874.31	C
S355356	028	Assemble fourth/last 8 IHCal sectors into barrel on fixture	22	100%	01-Mar-22 A	31-Mar-22 A			10-Jan-22	14-Jan-22	0	32	\$3,874.31	C
S355400	028	Delete Install Inner Hcal Assembly Insertion Fixture - Labor	1	100%	29-Nov-21 A	30-Nov-21 A			01-Jun-21	16-Aug-21	0	0	\$0.00	C
S355500	028	Delete Install Inner Hcal Assembly Insertion Fixture - M&S	1	100%	29-Nov-21 A	30-Nov-21 A			01-Jun-21	16-Aug-21	0	0	\$0.00	C
S355600	028	Install Stanchions & south slider beam - Labor	40	100%	01-Apr-22 A	27-May-22 A			18-Jan-22	24-Jan-22	0	640	\$79,736.52	C
S355700	028	Install Stanchions & south slider beam - M&S	40	100%	01-Apr-22 A	27-May-22 A			18-Jan-22	24-Jan-22	500	0	\$591.95	C
S355800	028	Delete Install 1st Inner HCal Support Ring - Labor	20	100%	01-Dec-21 A	30-Dec-21 A			03-Jun-19	04-Jun-19	0	0	\$0.00	C
S355900	028	Delete Install 1st Inner HCal Support Ring - M&S	20	100%	01-Dec-21 A	30-Dec-21 A			03-Jun-19	04-Jun-19	0	0	\$0.00	C
S356000	028	Transport & Install IHCal Barrel - Labor - CA-D	17	100%	01-Jun-22 A	24-Jun-22 A			25-Jan-22	26-Jan-22	0	124	\$17,250.69	C
S356100	028	Transport & Install IHCal Barrel - M&S	17	100%	01-Jun-22 A	24-Jun-22 A			25-Jan-22	26-Jan-22	500	0	\$591.95	C
S356200	028	Delete Install 2nd Inner HCal Support Ring - Labor	20	100%	01-Dec-21 A	30-Dec-21 A			03-Jun-19	04-Jun-19	0	0	\$0.00	C
S356300	028	Delete Install 2nd Inner HCal Support Ring - M&S	20	100%	01-Dec-21 A	30-Dec-21 A			03-Jun-19	04-Jun-19	0	0	\$0.00	C
S356310	028	Completed - Install 2nd Inner HCal Support Ring	0	100%		24-Jun-22 A				26-Jan-22	0	0	\$0.00	
S356400		Align/Survey Inner HCal to SC Magnet Centerline & dismantle - Labor - Physi	17	100%	01-Jun-22 A	24-Jun-22 A			27-Jan-22	02-Feb-22	0	24	\$2,905.73	C
S356410		Align/Survey Inner HCal to SC Magnet Centerline - & dismantle Labor - CA-D	17	100%	01-Jun-22 A	24-Jun-22 A			27-Jan-22	02-Feb-22	0	200	\$26,192.26	C
S356500		Align/Survey Inner HCal to SC Magnet Centerline - & dismantle M&S	17	100%	01-Jun-22 A	24-Jun-22 A			27-Jan-22	02-Feb-22	500	0	\$591.95	C
S356600	028	Install Inner HCal Cables and Services (if instrumented) - Labor	20	0%	01-Nov-22	01-Dec-22	92	03-Feb-22	03-Mar-22	0	320	\$41,556.00	C	
S356700	028	Install Inner HCal Cables and Services (if instrumented) - M&S	20	0%	01-Nov-22	01-Dec-22	92	03-Feb-22	03-Mar-22	500	0	\$591.95	C	
S356800	004	Inner HCal - Operational Readiness Review (ORR)	18	100%	01-Jun-22 A	27-Jun-22 A			04-Mar-22	17-Mar-22	0	40	\$5,405.47	C
S356900		Address Action Items from Inner Hcal ORR	18	100%	01-Jun-22 A	27-Jun-22 A			18-Mar-22	31-Mar-22	0	40	\$5,405.47	C
S357000	032C	Commission Inner HCal (labor - if instrumented) - Labor	18	100%	01-Jun-22 A	27-Jun-22 A			01-Apr-22	07-Apr-22	0	80	\$14,694.59	C
S357100	003,004	Commission Inner HCal (labor - if instrumented) - Labor	18	100%	01-Jun-22 A	27-Jun-22 A			01-Apr-22	07-Apr-22	0	640	\$0.00	T
S357200	003	Commission Inner HCal - M&S	18	100%	01-Jun-22 A	27-Jun-22 A			01-Apr-22	07-Apr-22	500	0	\$594.32	C
S357210	003	Completed - Install Inner HCal	0	100%		31-Aug-22 A				02-Feb-22	0	0	\$0.00	C

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POM02.02.05.07 EMCal Installation			1213		01-Mar-18 A	05-Jan-23	12-Dec-22	69	01-Mar-18	27-Apr-22	32500	4408	\$428,496.24	
S1003839	028	Transport Assembled EMCal Sectors to AH - Labor - Physics Resource(s)	110	56%	01-Jul-22 A	09-Dec-22	09-Dec-22	0	03-Feb-22	10-Mar-22	0	184	\$23,671.20	C
S357300		Design EMCal Integration/Installation Tooling/Fixtures FY18	148	100%	01-Mar-18 A	28-Sep-18 A			01-Mar-18	28-Sep-18	0	0	\$0.00	C
S357400	003	Design EMCal Integration/Installation Tooling/Fixtures FY21	203	100%	11-Mar-20 A	31-Dec-20 A			01-Oct-20	05-Apr-21	0	100	\$12,642.15	C
S357500		Fabricate/Procure EMCal Integration/Installation Tooling/Fixtures - Labor	189	100%	01-Feb-21 A	29-Oct-21 A			06-Apr-21	29-Jun-21	0	208	\$28,545.99	C
S357600		Fabricate/Procure EMCal Integration/Installation Tooling/Fixtures - M&S	189	100%	01-Feb-21 A	29-Oct-21 A			06-Apr-21	29-Jun-21	30000	0	\$34,820.53	C
S357700		Prepare EMCal Integration/Installation Tooling/Fixtures Procedures	189	100%	01-Feb-21 A	29-Oct-21 A			30-Jun-21	14-Jul-21	0	128	\$17,776.84	C
S357800		Review EMCal Integration/Installation Tooling/Fixtures/Procedures Safety/Cer	4	100%	22-Mar-21 A	26-Mar-21 A			15-Jul-21	28-Jul-21	0	24	\$3,094.20	C
S357900		Address Action Items from EMCal Integration/Installation Tooling/Fixtures/Proc	4	100%	22-Mar-21 A	26-Mar-21 A			29-Jul-21	11-Aug-21	0	24	\$3,094.20	C
S358000		Design/Safety Reviews Complete, EMCal Integration/Installation Tooling/Fixtu	0	100%		30-Mar-21 A				11-Aug-21	0	0	\$0.00	C
S358100		EMCal Sectors Ready for Installation	0	100%		25-Apr-22 A				12-Jan-22	0	0	\$0.00	C
S358200	028	Transport Assembled EMCal Sectors to AH - Labor - CA-D Resource(s)	110	56%	01-Jul-22 A	09-Dec-22	09-Dec-22	0	03-Feb-22	25-Feb-22	0	8	\$1,249.87	C
S358300	028	Transport Assembled EMCal Sectors to AH - M&S	110	56%	01-Jul-22 A	09-Dec-22	09-Dec-22	0	03-Feb-22	25-Feb-22	500	0	\$591.95	C
S358400	028	Install EMCal Sectors - Labor	90	50%	01-Aug-22 A	09-Dec-22	09-Dec-22	0	04-Feb-22	28-Feb-22	0	640	\$79,736.52	C
S358500	028	Install EMCal Sectors - M&S	90	50%	01-Aug-22 A	09-Dec-22	09-Dec-22	0	04-Feb-22	28-Feb-22	500	0	\$591.95	C
S358510	028	Completed - Install EMCal Sectors	0	0%		09-Dec-22		0		28-Feb-22	0	0	\$0.00	C
S358600	028	Align/Survey EMCal to SC Magnet Centerline - Labor - Physics Resource(s)	79	50%	17-Aug-22 A	12-Dec-22	12-Dec-22	0	07-Feb-22	01-Mar-22	0	20	\$2,494.09	C
S358610	028	Align/Survey EMCal to SC Magnet Centerline - Labor - CA-D Resource(s)	79	50%	17-Aug-22 A	12-Dec-22	12-Dec-22	0	07-Feb-22	01-Mar-22	0	200	\$26,978.03	C
S358700	028	Align/Survey EMCal to SC Magnet Centerline - M&S	79	50%	17-Aug-22 A	12-Dec-22	12-Dec-22	0	07-Feb-22	01-Mar-22	500	0	\$603.79	C
S358800	028	Install EMCal Cables and Services - Labor	16	0%	13-Dec-22	05-Jan-23		0	08-Feb-22	02-Mar-22	0	608	\$79,778.07	C
S358900	028	Install EMCal Cables and Services - M&S	16	0%	13-Dec-22	05-Jan-23		69	08-Feb-22	02-Mar-22	500	0	\$598.61	C
S359000	004	EMCal - Operational Readiness Review (ORR)	22	100%	01-Aug-22 A	31-Aug-22 A			03-Mar-22	09-Mar-22	0	32	\$4,280.27	C
S359100		Address Action Items from EMCal ORR	22	100%	01-Aug-22 A	31-Aug-22 A			10-Mar-22	23-Mar-22	0	32	\$4,280.27	C
S359200		Commission EMCal - Labor	62	100%	01-Aug-22 A	28-Oct-22 A			24-Mar-22	27-Apr-22	0	600	\$103,063.97	C
S359300	003	Commission EMCal - Labor	62	100%	01-Aug-22 A	28-Oct-22 A			24-Mar-22	27-Apr-22	0	1600	\$0.00	T
S359400		Commission EMCal - M&S	62	100%	01-Aug-22 A	28-Oct-22 A			24-Mar-22	27-Apr-22	500	0	\$603.79	C
S359410		Completed - Commission EMCal	0	0%		05-Jan-23		69		27-Apr-22	0	0	\$0.00	C
POM02.02.05.08 TPC Installation			1185		24-May-18 A	23-Feb-23	15-Nov-22	37	24-May-18	07-Dec-22	32500	1378	\$220,872.51	
S1003879		Install TPC (Mechanical) - Labor - Physics Resource(s)	5	0%	10-Jan-23	17-Jan-23		0	21-Oct-22	27-Oct-22	0	116	\$15,041.29	C
S359500		Design TPC Integration/Installation Tooling/Fixtures FY18	88	100%	24-May-18 A	28-Sep-18 A			24-May-18	28-Sep-18	0	0	\$0.00	C
S359600	003	Design TPC Integration/Installation Tooling/Fixtures FY21	165	100%	01-Oct-18 A	31-May-19 A			01-Oct-18	31-May-19	0	0	\$0.00	C
S359605	003	Design TPC Integration/Installation Tooling/Fixtures FY21 Split	499	100%	02-Dec-19 A	30-Nov-21 A			01-Oct-20	29-Oct-20	0	202	\$25,604.67	C
S359700		Fabricate/Procure TPC Integration/Installation Tooling/Fixtures - Labor	220	90%	03-Jan-22 A	15-Nov-22	15-Nov-22	8	30-Oct-20	15-Mar-21	0	80	\$11,795.45	C
S359800		Fabricate/Procure TPC Integration/Installation Tooling/Fixtures - M&S	220	90%	03-Jan-22 A	15-Nov-22	15-Nov-22	8	30-Oct-20	15-Mar-21	30000	0	\$35,516.94	C
S359900		Prepare TPC Integration/Installation Tooling/Fixtures Procedures	242	100%	10-Feb-21 A	31-Jan-22 A			16-Mar-21	29-Mar-21	0	68	\$9,358.60	C
S360000		Review TPC Integration/Installation Tooling/Fixtures/Procedures Safety/Certifi	214	90%	25-Jan-22 A	30-Nov-22	15-Nov-22	8	30-Mar-21	12-Apr-21	0	24	\$3,187.02	C
S360100		Address Action Items from TPC Integration/Installation Tooling/Fixtures/Procec	10	0%	01-Dec-22	14-Dec-22		8	13-Apr-21	26-Apr-21	0	24	\$3,282.63	C
S360200		Design/Safety Reviews Complete, TPC Integration/Installation Tooling/Fixture	0	0%		14-Dec-22		8		26-Apr-21	0	0	\$0.00	C
S360300		TPC Ready for Installation (Installation Sequence Can Commence)	0	0%		14-Dec-22		8		20-Jan-22	0	0	\$0.00	C
S360400		Transport Assembled TPC Sections to AH - Labor - Physics Resource(s)	5	0%	15-Dec-22	21-Dec-22		8	02-Mar-22	08-Mar-22	0	40	\$5,124.18	C
S360410		Transport Assembled TPC Sections to AH - Labor - CA-D Resource(s)	5	0%	15-Dec-22	21-Dec-22		8	02-Mar-22	08-Mar-22	0	8	\$1,249.87	C
S360500		Transport Assembled TPC Sections to AH - M&S	5	0%	15-Dec-22	21-Dec-22		8	02-Mar-22	08-Mar-22	500	0	\$591.95	C
S360600		Open SC Magnet Pole Tip Doors	1	0%	22-Dec-22	22-Dec-22		8	09-Mar-22	09-Mar-22	0	20	\$2,638.95	C
S360700		Install TPC Support - Labor	2	0%	06-Jan-23	09-Jan-23		0	14-Oct-22	20-Oct-22	0	100	\$12,615.30	C
S360800		Install TPC Support - M&S	2	0%	06-Jan-23	09-Jan-23		0	14-Oct-22	20-Oct-22	500	0	\$603.79	C

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S360900		Install TPC (Mechanical) - Labor - CA-D Resource(s)	10	0%	10-Jan-23	24-Jan-23		0	21-Oct-22	27-Oct-22	0	8	\$876.10	C
S361000		Install TPC (Mechanical) - M&S	10	0%	10-Jan-23	24-Jan-23		0	21-Oct-22	27-Oct-22	500	0	\$603.79	C
S361010		Completed - Install TPC	0	0%		24-Jan-23		0		27-Oct-22	0	0	\$0.00	C
S361100		Align/Survey TPC to SC Magnet Centerline - Labor - Physics Resource(s)	5	0%	25-Jan-23	31-Jan-23		0	28-Oct-22	03-Nov-22	0	20	\$2,494.09	C
S361110		Align/Survey TPC to SC Magnet Centerline - Labor - CA-D Resource(s)	5	0%	25-Jan-23	31-Jan-23		0	28-Oct-22	03-Nov-22	0	200	\$26,978.03	C
S361200		Align/Survey TPC to SC Magnet Centerline - M&S	5	0%	25-Jan-23	31-Jan-23		0	28-Oct-22	03-Nov-22	500	0	\$603.79	C
S361300	008C	Install TPC Cables and Services - Labor	15	0%	01-Feb-23	22-Feb-23		0	14-Nov-22	06-Dec-22	0	468	\$62,102.29	C
S361400	008C	Install TPC Cables and Services - M&S	15	0%	01-Feb-23	22-Feb-23		0	14-Nov-22	06-Dec-22	500	0	\$603.79	C
S361500	033C	TPC - Operational Readiness Review (ORR)	0	0%	23-Feb-23	23-Feb-23		37	07-Dec-22	07-Dec-22	0	0	\$0.00	C
S361600	033C	Address Action Items from TPC ORR	0	0%	23-Feb-23	23-Feb-23		37	07-Dec-22	07-Dec-22	0	0	\$0.00	C
S361700	033C	Commission TPC - Labor Phys	0	0%	23-Feb-23	23-Feb-23		37	07-Dec-22	07-Dec-22	0	0	\$0.00	C
S361800	033C	Commission TPC - Labor Students	0	0%	23-Feb-23	23-Feb-23		37	07-Dec-22	07-Dec-22	0	0	\$0.00	T
S361900	033C	Commission TPC - M&S	0	0%	23-Feb-23	23-Feb-23		37	07-Dec-22	07-Dec-22	0	0	\$0.00	C
POM02.02.05.09 INTT Installation			874		01-Oct-19 A	04-Apr-23	15-Nov-22	9	01-Oct-20	07-Dec-22	32500	1182	\$196,408.43	
EXT327600	004	[External Activity] INTT Assembly Complete and Ready for Installation	0	100%		29-Jul-22 A				25-May-22	0	0	\$0.00	C
S362000	003	Design INTT Integration/Installation Tooling/Fixtures	581	100%	01-Oct-19 A	31-Jan-22 A			01-Oct-20	30-Dec-20	0	90	\$11,603.24	C
S362100		Fabricate/Procure INTT Integration/Installation Tooling/Fixtures - Labor	160	100%	14-Feb-22 A	30-Sep-22 A			31-Dec-20	29-Mar-21	0	80	\$11,795.45	C
S362200		Fabricate/Procure INTT Integration/Installation Tooling/Fixtures - M&S	160	100%	14-Feb-22 A	30-Sep-22 A			31-Dec-20	29-Mar-21	30000	0	\$35,516.94	C
S362300		Prepare INTT Integration/Installation Tooling/Fixtures Procedures	12	10%	28-Oct-22 A	15-Nov-22	15-Nov-22	50	30-Mar-21	12-Apr-21	0	60	\$8,930.90	C
S362400		Review INTT Integration/Installation Tooling/Fixtures/Procedures Safety/Certif	10	0%	16-Nov-22	01-Dec-22		50	13-Apr-21	26-Apr-21	0	24	\$3,187.02	C
S362500		Address Action Items from INTT Integration/Installation Tooling/Fixtures Desig	10	0%	02-Dec-22	15-Dec-22		50	27-Apr-21	10-May-21	0	24	\$3,187.02	C
S362600		Design/Safety Reviews Complete, INTT Integration/Installation Tooling/Fixture	0	0%		15-Dec-22		50		10-May-21	0	0	\$0.00	C
S362700		INTT Ready for Installation	0	0%		15-Dec-22		50		25-May-22	0	0	\$0.00	C
S362800	028	Transport Assembled INTT Sections to AH - Labor	2	0%	02-Mar-23	03-Mar-23		0	04-Nov-22	07-Nov-22	0	40	\$5,277.90	C
S362900		Transport Assembled INTT Sections to AH - M&S	2	0%	02-Mar-23	03-Mar-23		0	04-Nov-22	07-Nov-22	500	0	\$603.79	C
S363000		Install INTT Support - Labor	8	0%	06-Mar-23	15-Mar-23		0	08-Nov-22	09-Nov-22	0	76	\$9,767.26	C
S363100		Install INTT Support - M&S	8	0%	06-Mar-23	15-Mar-23		0	08-Nov-22	09-Nov-22	500	0	\$603.79	C
S363200		Install INTT (mechanical) - Labor	8	0%	16-Mar-23	27-Mar-23		0	16-Nov-22	18-Nov-22	0	76	\$9,767.26	C
S363300	028	Install INTT (mechanical) - M&S	8	0%	16-Mar-23	27-Mar-23		0	16-Nov-22	18-Nov-22	500	0	\$603.79	C
S363400		Align/Survey INTT to SC Magnet Centerline - Labor - Physics Resource(s)	8	0%	16-Mar-23	27-Mar-23		0	21-Nov-22	29-Nov-22	0	20	\$2,494.09	C
S363410		Align/Survey INTT to SC Magnet Centerline - Labor - CA-D Resource(s)	8	0%	16-Mar-23	27-Mar-23		0	21-Nov-22	29-Nov-22	0	140	\$18,415.76	C
S363500		Align/Survey INTT to SC Magnet Centerline - M&S	8	0%	16-Mar-23	27-Mar-23		0	21-Nov-22	29-Nov-22	500	0	\$603.79	C
S363600	004	Install INTT Cables and Services - Labor	5	0%	28-Mar-23	03-Apr-23		0	30-Nov-22	06-Dec-22	0	552	\$73,446.64	C
S363700	004	Install INTT Cables and Services - M&S	5	0%	28-Mar-23	03-Apr-23		0	30-Nov-22	06-Dec-22	500	0	\$603.79	C
S363800	033C	INTT - Operational Readiness Review (ORR)	0	0%	04-Apr-23	04-Apr-23		9	07-Dec-22	07-Dec-22	0	0	\$0.00	C
S363900	033C	Address Action Items from INTT ORR	0	0%	04-Apr-23	04-Apr-23		9	07-Dec-22	07-Dec-22	0	0	\$0.00	C
S364000	033C	Commission INTT - Labor	0	0%	04-Apr-23	04-Apr-23		9	07-Dec-22	07-Dec-22	0	0	\$0.00	C
S364100	033C	Commission INTT - Student Labor	0	0%	04-Apr-23	04-Apr-23		9	07-Dec-22	07-Dec-22	0	0	\$0.00	T
S364200	033C	Commission INTT - M&S	0	0%	04-Apr-23	04-Apr-23		9	07-Dec-22	07-Dec-22	0	0	\$0.00	C
S364210		Completed - Install INTT	0	0%		04-Apr-23		9		07-Dec-22	0	0	\$0.00	C
POM02.02.05.10 MVTX Installation			883		01-Oct-19 A	17-Apr-23	30-Nov-22	0	01-Oct-20	11-Jan-23	31500	1692	\$203,970.61	
EXT101400	004	[External Activity] MVTX Complete and ready for installation	0	100%		31-Mar-22 A				17-Mar-22	0	0	\$0.00	C
S364300	003	Design MVTX Integration/Installation Tooling/Fixtures	581	100%	01-Oct-19 A	31-Jan-22 A			01-Oct-20	30-Dec-20	0	90	\$11,603.24	C
S364400		Fabricate/Procure MVTX Integration/Installation Tooling/Fixtures - Labor	10	100%	17-Jan-22 A	31-Jan-22 A			31-Dec-20	29-Mar-21	0	100	\$14,216.89	C
S364500		Fabricate/Procure MVTX Integration/Installation Tooling/Fixtures - M&S	10	100%	17-Jan-22 A	31-Jan-22 A			31-Dec-20	29-Mar-21	30000	0	\$35,516.94	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S364600		Prepare MVTX Integration/Installation Tooling/Fixtures Procedures	397	75%	29-Apr-21 A	30-Nov-22	30-Nov-22	53	30-Mar-21	12-Apr-21	0	50	\$7,242.78	C
S364700		Review MVTX Integration/Installation Tooling/Fixtures/Procedures Safety/Cert	97	10%	26-Jul-22 A	14-Dec-22	07-Nov-22	53	13-Apr-21	26-Apr-21	0	24	\$3,187.02	C
S364800		Address Action Items from MVTX Integration/Installation Tooling/Fixtures/Proc	10	0%	15-Dec-22	29-Dec-22		53	27-Apr-21	10-May-21	0	24	\$3,187.02	C
S364900		Design/Safety Reviews Complete, MVTX Integration/Installation Tooling/Fixtu	0	0%		29-Dec-22		53		10-May-21	0	0	\$0.00	C
S365000		MVTX Ready for Installation	0	0%		29-Dec-22		53		17-Mar-22	0	0	\$0.00	C
S365100		Installation Prep	5	0%	30-Dec-22	06-Jan-23		53	18-Mar-22	24-Mar-22	0	240	\$0.00	T
S365200		Installation Review	1	0%	09-Jan-23	09-Jan-23		53	25-Mar-22	25-Mar-22	0	24	\$0.00	T
S365300		Transport Assembled MVTX Sections to IR - Labor	5	0%	10-Jan-23	17-Jan-23		53	28-Mar-22	01-Apr-22	0	40	\$5,124.18	C
S365400		Transport Assembled MVTX Sections to IR - M&S	5	0%	10-Jan-23	17-Jan-23		53	28-Mar-22	01-Apr-22	500	0	\$591.95	C
S365500	004	Install MVTX Support - Labor	1	0%	04-Apr-23	04-Apr-23		0	08-Dec-22	12-Dec-22	0	76	\$9,767.26	C
S365600	004	Install MVTX Support - M&S	1	0%	04-Apr-23	04-Apr-23		0	08-Dec-22	12-Dec-22	500	0	\$603.79	C
S365700	003,004	Install FELIX	2	0%	05-Apr-23	06-Apr-23		0	13-Dec-22	14-Dec-22	0	16	\$2,211.85	C
S365800	004	Install FELIX	2	0%	05-Apr-23	06-Apr-23		0	13-Dec-22	14-Dec-22	0	16	\$0.00	T
S365900	004	Install Optical fibers	2	0%	05-Apr-23	06-Apr-23		0	13-Dec-22	14-Dec-22	0	40	\$4,988.17	C
S366000	028	Install RU	2	0%	05-Apr-23	06-Apr-23		0	13-Dec-22	14-Dec-22	0	40	\$5,529.62	C
S366100	004	Install RU	2	0%	05-Apr-23	06-Apr-23		0	13-Dec-22	14-Dec-22	0	40	\$0.00	T
S366200	028	Install Samtec Cables	1	0%	05-Apr-23	05-Apr-23		0	13-Dec-22	14-Dec-22	0	40	\$4,988.17	C
S366300	016	Install Half-Barrel 1	2	0%	06-Apr-23	07-Apr-23		0	15-Dec-22	22-Dec-22	0	160	\$21,035.58	C
S366400	016	Install Half-Barrel 1	2	0%	06-Apr-23	07-Apr-23		0	15-Dec-22	21-Dec-22	0	60	\$0.00	T
S366500	004	Install Half-Barrel 2	2	0%	10-Apr-23	11-Apr-23		0	23-Dec-22	03-Jan-23	0	160	\$21,035.58	C
S366600	004	Install Half-Barrel 2	2	0%	10-Apr-23	11-Apr-23		0	22-Dec-22	29-Dec-22	0	60	\$0.00	T
S366700	008C	Align/Survey MVTX to SC Magnet Centerline - Labor - Physics Resource(s)	2	0%	12-Apr-23	13-Apr-23		0	04-Jan-23	05-Jan-23	0	0	\$0.00	C
S366710	008C	Align/Survey MVTX to SC Magnet Centerline - Labor - CA-D Resource(s)	2	0%	12-Apr-23	13-Apr-23		0	04-Jan-23	05-Jan-23	0	0	\$0.00	C
S366800	008C	Align/Survey MVTX to SC Magnet Centerline - M&S	2	0%	12-Apr-23	13-Apr-23		0	04-Jan-23	05-Jan-23	0	0	\$0.00	C
S366900	008C	Install MVTX Remaining Cables and Services - Labor	1	0%	14-Apr-23	14-Apr-23		0	06-Jan-23	10-Jan-23	0	392	\$52,536.79	C
S367000	008C	Install MVTX Remaining Cables and Services - M&S	1	0%	14-Apr-23	14-Apr-23		0	06-Jan-23	10-Jan-23	500	0	\$603.79	C
S367100	033C	MVTX - Operational Readiness Review (ORR)	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	C
S367200	033C	MVTX - Operational Readiness Review (ORR)	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	T
S367300	033C	Address Action Items from MVTX ORR	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	C
S367400	033C	Address Action Items from MVTX ORR	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	T
S367500	033C	Commission MVTX - Labor	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	T
S367600	033C	Commission MVTX - M&S	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	C
S367610		Completed - Install MVTX	0	0%		17-Apr-23		0		11-Jan-23	0	0	\$0.00	C
POM02.02.05.11		Min Bias Installation	726		13-May-20 A	11-Apr-23	30-Nov-22	4	01-Oct-20	06-Jan-23	12000	364	\$62,986.91	
S367700	003	Design Min Bias Integration/Installation Tooling/Fixtures	481	100%	13-May-20 A	18-Apr-22 A			01-Oct-20	30-Dec-20	0	46	\$5,953.30	C
S367800		Fabricate/Procure Min Bias Integration/Installation Tooling/Fixtures - Labor	82	100%	01-Jul-22 A	28-Oct-22 A			31-Dec-20	29-Mar-21	0	50	\$7,165.31	C
S367900		Fabricate/Procure Min Bias Integration/Installation Tooling/Fixtures - M&S	82	100%	01-Jul-22 A	28-Oct-22 A			31-Dec-20	29-Mar-21	10000	0	\$11,838.98	C
S368000		Prepare Min Bias Integration/Installation Tooling/Fixtures Procedures	397	75%	29-Apr-21 A	30-Nov-22	30-Nov-22	69	30-Mar-21	12-Apr-21	0	60	\$8,418.23	C
S368100		Review Min Bias Integration/Installation Tooling/Fixtures/Procedures Safety/C	10	0%	01-Dec-22	14-Dec-22		69	13-Apr-21	26-Apr-21	0	24	\$3,187.02	C
S368200		Address Action Items from Min Bias Integration/Installation Tooling/Fixtures/Pr	10	0%	15-Dec-22	29-Dec-22		69	27-Apr-21	10-May-21	0	24	\$3,187.02	C
S368300		Design/Safety Reviews Complete, Min Bias Integration/Installation Tooling/Fix	0	0%		29-Dec-22		69		10-May-21	0	0	\$0.00	C
S368400		Min Bias Ready for Installation	0	0%		29-Dec-22		69		28-Jul-21	0	0	\$0.00	C
S368500	003	Transport Assembled Min Bias Sections to AH - Labor	1	0%	05-Apr-23	05-Apr-23		4	08-Dec-22	08-Dec-22	0	16	\$2,285.00	C
S368600	003	Transport Assembled Min Bias Sections to AH - M&S	1	0%	05-Apr-23	05-Apr-23		4	08-Dec-22	08-Dec-22	500	0	\$603.79	C
S368700		Install Min Bias Support - Labor	1	0%	06-Apr-23	06-Apr-23		4	09-Dec-22	13-Dec-22	0	32	\$4,280.27	C

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Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S368800	028	Install Min Bias Support - M&S	1	0%	06-Apr-23	06-Apr-23		4	09-Dec-22	13-Dec-22	500	0	\$603.79	C
S368900	003	Install Min Bias (mechanical) - Labor	1	0%	07-Apr-23	07-Apr-23		4	14-Dec-22	20-Dec-22	0	32	\$4,280.27	C
S369000	003	Install Min Bias (mechanical) - M&S	1	0%	07-Apr-23	07-Apr-23		4	14-Dec-22	20-Dec-22	500	0	\$603.79	C
S369010		Completed - Install Min Bias	0	0%		07-Apr-23		4		20-Dec-22	0	0	\$0.00	C
S369100		Align/Survey Min Bias to SC Magnet Centerline - Labor - Physics Resource(s)	0	0%	10-Apr-23	10-Apr-23		4	21-Dec-22	28-Dec-22	0	0	\$0.00	C
S369110		Align/Survey Min Bias to SC Magnet Centerline - Labor - CA-D Resource(s)	0	0%	10-Apr-23	10-Apr-23		4	21-Dec-22	28-Dec-22	0	0	\$0.00	C
S369200		Align/Survey Min Bias to SC Magnet Centerline - M&S	0	0%	10-Apr-23	10-Apr-23		4	21-Dec-22	28-Dec-22	0	0	\$0.00	C
S369300	032C	Install Min Bias Cables and Services - Labor	1	0%	10-Apr-23	10-Apr-23		4	29-Dec-22	05-Jan-23	0	80	\$9,976.35	C
S369400		Install Min Bias Cables and Services - M&S	1	0%	10-Apr-23	10-Apr-23		4	29-Dec-22	05-Jan-23	500	0	\$603.79	C
S369500	033C	Min Bias - Operational Readiness Review (ORR)	0	0%	11-Apr-23	11-Apr-23		4	06-Jan-23	06-Jan-23	0	0	\$0.00	C
S369600	033C	Address Action Items from Min Bias ORR	0	0%	11-Apr-23	11-Apr-23		4	06-Jan-23	06-Jan-23	0	0	\$0.00	C
S369700	033C	Commission Min Bias - Labor	0	0%	11-Apr-23	11-Apr-23		4	06-Jan-23	06-Jan-23	0	0	\$0.00	C
S369800	033C	Commission Min Bias - Student Labor	0	0%	11-Apr-23	11-Apr-23		4	06-Jan-23	06-Jan-23	0	0	\$0.00	T
S369900	033C	Commission Min Bias - M&S	0	0%	11-Apr-23	11-Apr-23		4	06-Jan-23	06-Jan-23	0	0	\$0.00	C
POM02.02.05.12	Full System	Integration and ORR	176		01-Aug-22 A	17-Apr-23		0	18-Jul-22	14-Feb-23	2000	1352	\$219,963.79	
S370500	004	Prepare for Review of Safety System Design by CAD ESRC	20	0%	01-Nov-22	01-Dec-22		32	10-Aug-22	07-Sep-22	0	160	\$28,540.04	C
S370510	004	Review of Safety System Design by CAD ESRC	3	0%	02-Dec-22	06-Dec-22		32	08-Sep-22	12-Sep-22	0	64	\$12,124.55	C
S370520	004	Prepare Procedures (Blue Sheet, Pink Sheet)	20	0%	07-Dec-22	05-Jan-23		32	13-Sep-22	11-Oct-22	0	240	\$41,494.48	C
S370530	004	Review and approve procedures	2	0%	06-Jan-23	09-Jan-23		32	12-Oct-22	13-Oct-22	0	96	\$17,578.67	C
S370540	004	Magnet Checkout After Power Testing	5	0%	10-Jan-23	17-Jan-23		32	14-Oct-22	20-Oct-22	0	48	\$9,084.05	C
S370550	004	Preparation for Full Operation - In-Rack Safety System Check	5	0%	18-Jan-23	24-Jan-23		32	21-Oct-22	27-Oct-22	0	72	\$11,898.07	C
S370560	004	Preparation for Full Operation - Magnet Re-check Cryo/PSU/QD/ODH Check	10	0%	25-Jan-23	07-Feb-23		32	28-Oct-22	10-Nov-22	0	48	\$9,084.05	C
S370570	004	Preparation for Full Operation - Verify Global Safety System	5	0%	08-Feb-23	14-Feb-23		32	14-Nov-22	18-Nov-22	0	80	\$12,368.94	C
S370580	004	Preparation for Full Operation - Final Safety Walk Trough	5	0%	15-Feb-23	22-Feb-23		32	21-Nov-22	29-Nov-22	0	128	\$20,888.73	C
S370590	004	Preparation for Full Operation - Approvals - CAD and Physics	5	0%	23-Feb-23	01-Mar-23		32	30-Nov-22	06-Dec-22	0	16	\$3,495.16	C
S1003919	032C	Move Full sPHENIX to IR - Labor - Physics Resource(s)	22	100%	01-Aug-22 A	31-Aug-22 A			18-Jul-22	22-Jul-22	0	176	\$21,589.99	C
S1008550	033C	C-AD RSC Approval of sPHENIX SAD, ASE, and USI for start prior ARR	0	0%		01-Dec-22*		92		26-Sep-22	0	0	\$0.00	C
S1008560	033C	LESHC Appoval of SPHENIX SAD, ASE, and USI	0	0%		01-Dec-22*		92		03-Oct-22	0	0	\$0.00	C
S1008600	033C	ESH ALD Provides Required Information and Requests Approval for sPHENIX	0	0%		01-Dec-22*		92		11-Oct-22	0	0	\$0.00	C
S1008640	033C	BHSC Approves sPHENIX ASE	0	0%		12-Dec-22*		0		12-Dec-22	0	0	\$0.00	C
S1008680	033C	Complete Internal Readiness Review	0	0%		16-Dec-22*		0		16-Dec-22	0	0	\$0.00	C
S1008720	033C	Close IRR Pre-ARR Items	0	0%		06-Jan-23*		0		06-Jan-23	0	0	\$0.00	C
S1008760	033C	Complete Accelerator Readiness Review	0	0%		13-Jan-23*		0		13-Jan-23	0	0	\$0.00	C
S1008800	033C	Close ARR Pre-Operations Findings	0	0%		23-Jan-23*		0		23-Jan-23	0	0	\$0.00	C
S1008840	033C	Obtain ARR Team Recommendation for sPHENIX Commissioning	0	0%		30-Jan-23*		0		30-Jan-23	0	0	\$0.00	C
S1008880	033C	ESH ALD Provides Required Information and Request Approval for sPHENIX	0	0%		07-Feb-23*		0		07-Feb-23	0	0	\$0.00	C
S1008920	033C	BHSC Approves sPHENIX Commissioning	0	0%		14-Feb-23*		0		14-Feb-23	0	0	\$0.00	C
S370000	028	Move Full sPHENIX to IR - Labor - CA-D Resource(s)	22	100%	01-Aug-22 A	31-Aug-22 A			18-Jul-22	22-Jul-22	0	56	\$7,642.37	C
S370100	028	Move Full sPHENIX to IR - M&S	22	100%	01-Aug-22 A	31-Aug-22 A			18-Jul-22	22-Jul-22	1000	0	\$1,183.90	C
S370200		Align Full sPHENIX to Nominal Beamline and IP - Labor - Physics Resource(s)	22	100%	01-Aug-22 A	31-Aug-22 A			25-Jul-22	29-Jul-22	0	16	\$1,937.15	C
S370210		Align Full sPHENIX to Nominal Beamline and IP - Labor - CA-D Resource(s)	22	100%	01-Aug-22 A	31-Aug-22 A			25-Jul-22	29-Jul-22	0	152	\$19,869.74	C
S370300		Align Full sPHENIX to Nominal Beamline and IP - M&S	22	100%	01-Aug-22 A	31-Aug-22 A			25-Jul-22	29-Jul-22	1000	0	\$1,183.90	C
S370400		sPHENIX Installation Complete Ready for ORR	0	0%		14-Apr-23		0		10-Jan-23	0	0	\$0.00	C
S370600	033C	Deleted Full sPHENIX Detector - Operational Readiness Review (ORR)	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	C
S370700	033C	Deleted Address Action Items from Full sPHENIX Detector ORR	0	0%	17-Apr-23	17-Apr-23		0	11-Jan-23	11-Jan-23	0	0	\$0.00	C

Activity ID	BNL_PCR ID	Activity Name	@Compl Dur	%	Start	Finish	Expected Finish	TF	BL Project Start	BL Project Finish	Direct FY19\$ - M&S	Hours	Burd AY\$ - Total	BNL_Fund Source
S370800		sPHENIX Ready for Operations	0	0%		17-Apr-23		0		14-Feb-23	0	0	\$0.00	C
S370850	032C	WBS 2X Schedule Contingency	0	0%	17-Apr-23	17-Apr-23		0	14-Feb-23	14-Feb-23	0	0	\$0.00	C
S370900		Start of RHIC Run 30-Jan-23	0	0%	17-Apr-23			0	14-Feb-23		0	0	\$0.00	C
S999999	003	Completed: sPHENIX MIE and Support Projects	0	0%		17-Apr-23		0		14-Feb-23	0	0	\$0.00	C