

Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020				2021																
															FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22													
POM02 sPHENIX WBS 1.x, 2.x May 2021															19	1478	01-Feb-17 A	29-Dec-22	01-Feb-17	29-Dec-22	42479	19807737	24,909,132	24,853,936															
MIE Project															19	1478	01-Feb-17 A	29-Dec-22	01-Feb-17	29-Dec-22	42479	19807737	24,909,132	24,853,936															
Project Management															19	1478	01-Feb-17 A	29-Dec-22	01-Feb-17	29-Dec-22	5830	899945	1,951,679	1,951,679															
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	641	0	107,107	107,107	16700	A-OPC																									
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	0		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	1694	0	283,044	283,044	16700	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	0	547599	610,909	610,909	16700	A-OPC																									
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	0	22509	24,834	24,834	59700	A-TEC																									
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	69	0	11,566	11,566	16700	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	0	298116	328,902	328,902	16700	A-OPC																									
Management Overview															0	309	01-Oct-21	29-Dec-22	01-Oct-21	29-Dec-22	0	0	0	0															
S101016	FY22 funding available		0	0%	01-Oct-21*		01-Oct-21		0	0	0	0		A-TEC																									
S101020	Internal Project Float		0	0%	07-Feb-22	07-Feb-22*	27-Jan-22	27-Jan-22	0	0	0	0		A-TEC																									
S101022	Early Project Completion		0	0%		07-Feb-22		27-Jan-22	0	0	0	0		A-TEC																									
S101030	WBS 1X Schedule Contingency		0	0%	07-Feb-22	29-Dec-22	27-Jan-22	29-Dec-22	0	0	0	0		A-TEC																									
S101040	Approve Project Closeout PD-4		0	0%		29-Dec-22*		29-Dec-22	0	0	0	0		A-TEC																									
Labor by FY															0	814	01-Oct-18 A	05-Jan-22	01-Oct-18	14-Oct-21	3426	0	542,494	542,494															
S102900	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	0	16700	A-OPC																									
S102910	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	0	59700	A-TEC																									
S102905	Mgmt labor - A - MIE, Phase 1 - FY19 split		83	100%	03-Jun-19 A	30-Sep-19 A	03-Jun-19	30-Sep-19	464	0	71,048	71,048	16700	A-OPC																									
S102915	Mgmt labor - A - MIE, Phase 2 - FY19 split		83	100%	03-Jun-19 A	30-Sep-19 A	03-Jun-19	30-Sep-19	285	0	43,639	43,639	59700	A-TEC																									
S103000	Mgmt Labor - A - MIE - FY20		250	100%	01-Oct-19 A	30-Sep-20 A	01-Oct-19	30-Sep-20	1559	0	245,877	245,877	59700	A-TEC																									
S103200	Mgmt Labor - A - MIE - FY21		0	65.6%	01-Oct-20 A	30-Sep-21*	01-Oct-20	29-Sep-21	1050	0	170,568	170,568	59700	A-TEC																									
S103400	Mgmt labor - A - MIE - FY22		0	0%	01-Oct-21*	05-Jan-22	01-Oct-21	14-Oct-21	68	0	11,361	11,361	59700	A-TEC																									
Management Travel															84	751	01-Oct-18 A	30-Sep-21	01-Oct-18	30-Sep-21	0	31720	42,823	42,823															
S104000	Travel FY19		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	0	0	0	16700	A-OPC																									
S104010	Travel FY19 Split		83	100%	03-Jun-19 A	30-Sep-19 A	03-Jun-19	30-Sep-19	0	6720	8,838	8,838	16700	A-OPC																									
S104100	Travel FY20		250	100%	01-Oct-19 A	30-Sep-20 A	01-Oct-19	30-Sep-20	0	20000	27,080	27,080	59700	A-TEC																									
S104200	Travel FY21		84	65.6%	01-Oct-20 A	30-Sep-21	01-Oct-20	30-Sep-21	0	5000	6,905	6,905	59700	A-TEC																									
TPC															255	1242	01-Feb-17 A	20-Jan-22	01-Feb-17	20-Jan-22	5371	4004320	5,037,796	5,026,775															
S104600	Actuals - Nonlabor - sPHENIX TPC FY17		168	100%	01-Feb-17 A	29-Sep-17 A	01-Feb-17	29-Sep-17	0	18789	20,961	20,961	16701	A-OPC																									
S104700	Actuals - Nonlabor - sPHENIX TPC FY18		248	100%	02-Oct-17 A	28-Sep-18 A	02-Oct-17	28-Sep-18	0	0	0	0	16701	A-OPC																									
S104710	Actuals - Nonlabor - sPHENIX TPC FY18		248	100%	02-Oct-17 A	28-Sep-18 A	02-Oct-17	28-Sep-18	0	246200	274,664	274,664	16701	A-OPC																									
S1000759	Actuals - NonLabor - sPHENIX TPC FY19M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	390830	431,189	431,189	16701	A-OPC																									
TPC Mechanics															255	838	11-Sep-18 A	20-Jan-22	11-Sep-18	20-Jan-22	1500	575573	817,775	818,873															
TPC v1 Field Cage Prototype																678	11-Sep-18 A	28-May-21 A	11-Sep-18	24-Feb-21	0	15400	17,670	17,737															
S107300	Procure TPC v1 End Cap - Contract Award(s) Phase 1		0	100%	11-Sep-18 A		11-Sep-18		0	0	0	0		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	0		A-OPC																									
S108500	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	0	16701	A-OPC																									
S107900	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	0	16701	A-OPC																									
S107700	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	0	16701	A-OPC																									
S107600	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	0	16701	A-OPC																									
S107905	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	0	2400	2,648	2,648	16701	A-OPC																									
S108800	Procure TPC Handling Cart M&S		291	100%	01-Apr-20 A	28-May-21 A	28-Dec-20	24-Feb-21	0	13000	15,022	15,089	59702	A-TEC																									
TPC v2 Field Cage																147	10-Oct-19 A	14-May-20 A	16-Dec-19	30-Apr-20	0	148819	169,345	169,345															
S111800	Procure TPC v2 Central Membrane Parts M&S		94	100%	10-Oct-19 A	28-Feb-20 A	16-Dec-19	12-Feb-20	0	8000	9,103	9,103	16701	A-OPC																									
S110300	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	0	75827	86,285	86,285	16701	A-OPC																									
S111000	Procure TPC v2 Inner Field Cage Parts - Contract Award(s)		0	100%	14-Jan-20 A		28-Feb-20		0	0	0	0		A-OPC																									
S111200	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	0	34559	39,326	39,326	16701	A-OPC																									
S109400	Procure TPC v2 Mandrel Parts M&S		21	100%	01-Apr-20 A	30-Apr-20 A	16-Dec-19	12-Feb-20	0	10433	11,872	11,872	16701	A-OPC																									
S111500	Procure TPC Field Cage Prototype v2 End Rings		21	100%	01-Apr-20 A	30-Apr-20 A	14-Jan-20	11-Mar-20	0	20000	22,759	22,759	16701	A-OPC																									
S110100	Procure TPC v2 Outer Field Cage Parts - Contract Award(s)		0	100%	14-May-20 A		28-Jan-20		0	0	0	0		A-OPC																									
TPC Final Field Cage																104	01-Dec-20 A	30-Apr-21 A	16-Jul-20	30-Apr-21	0	86000	99,819	99,682															
S113050	TPC Module technical Support		104	100%	01-Dec-20 A	30-Apr-21 A	01-Dec-20	30-Apr-21	0	80000	92,855	92,855	59702																										



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															FY19	FY20	FY21	FY22	FY20	FY21	FY22		
S126010	TPC R1 Module Production Procure Contracted Labor and M&S Wayne, Phase 2 - C		0	100%	02-Jan-20 A		01-Oct-19		0	0	0	0	A-TEC										
TPC R2 Modules																							
TPC R2 Module Factory Preparation																							
S126300	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	0	16701	A-OPC									
S126500	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	0	16701	A-OPC									
S126502	Prepare TPC R2 Factory Tooling M&S Split		21	100%	01-Jul-19 A	31-Jul-19 A	03-Jun-19	31-Jul-19	0	3600	3,972	3,972	16701	A-OPC									
TPC R2 Pre-Production Module																							
S127200	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	0	16701	A-OPC									
S126800	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	0	16701	A-OPC									
S127000	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	0	16701	A-OPC									
S127400	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	0	16701	A-OPC									
S127600	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	0	16701	A-OPC									
S127602	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	0	2500	2,758	2,758	16701	A-OPC									
TPC R2 Module Production																							
S128300	Procure TPC R2 Module Prod. Parts (Frames) - Contract Award(s)		0	100%	04-Feb-20 A		10-Feb-20		0	0	0	0	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	0	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	0	A-TEC										
S128800	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	0	9184	10,451	10,451	59703	A-TEC									
S128500	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	0	14601	16,615	16,615	59703	A-TEC									
S129400	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	0	9797	11,148	11,148	59703	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	0	A-TEC										
S129100	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	0	52990	60,299	60,299	59703	A-TEC									
TPC R3 Modules																							
TPC R3 Module Factory Preparation																							
S129900	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	0	16701	A-OPC									
S130300	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	0	16701	A-OPC									
S130100	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	0	16701	A-OPC									
S130500	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	0	16701	A-OPC									
S130102	Prepare TPC R3a Factory Tooling M&S Split		43	100%	01-Jul-19 A	30-Aug-19 A	03-Jun-19	03-Sep-19	0	3600	3,972	3,972	16701	A-OPC									
S130502	Prepare TPC R3b Factory Tooling M&S Split		21	100%	01-Aug-19 A	30-Aug-19 A	03-Jun-19	03-Sep-19	0	3600	3,972	3,972	16701	A-OPC									
TPC R3 Pre-Production Module																							
S131200	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	0	16701	A-OPC									
S130800	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	0	16701	A-OPC									
S131400	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	0	16701	A-OPC									
S131000	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	0	2000	2,207	2,207	16701	A-OPC									
S131600	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	0	10000	11,033	11,033	16701	A-OPC									
TPC R3 Module Production																							
S132500	Procure TPC R3 Module Prod. Parts (Frames) - Contract Award(s)		0	100%	04-Feb-20 A		10-Feb-20		0	0	0	0	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	0	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	0	A-TEC										
S133000	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	0	10762	12,246	12,246	59703	A-TEC									
S132700	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	0	16819	19,139	19,139	59703	A-TEC									
S133600	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	0	10288	11,707	11,707	59703	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	0	A-TEC										
S133300	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	0	71770	81,669	81,669	59703	A-TEC									
TPC FEE																							
TPC FEE Prototype v1																							
S135500	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	0	16701	A-OPC									
TPC FEE Prototype v2 (Pre-Production)																							
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	0	8000	9,103	9,103	16701	A-OPC									
S137200	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	0	1476	1,680	1,680	16701	A-OPC									
S137000	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	0	5871	6,681	6,681	16701	A-OPC									
S137600	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	0	5630	6,407	6,407	16701	A-OPC									
SAMPa chip 80 nsec																							
OBLG13	SAMPa chip 80 nsec development - Obligation - MPW to Test Design Changes		0	100%	02-Jul-18 A	02-Jul-18 A	02-Jul-18	02-Jul-18	0	0	0	0	A-OPC										
S138200	SAMPa chip 80 nsec development - Contract Award(s) - Report feasibility of 80ns/2t		0	100%	02-Jul-18 A		02-Jul-18		0	0	0	0	A-OPC										
S138300	SAMPa chip 80 nsec development - Contract Award(s) - Design at Layout level of ne		0	100%	02-Jul-18 A		02-Jul-18		0	0	0	0	A-OPC										
S138310	SAMPa chip 80 nsec development - Contract Award(s) - Layout finalization for MPW		0	100%	02-Jul-18 A		02-Jul-18		0	0	0	0	A-OPC										

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															FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22
S139705	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	0	16701	A-OPC												
S138500	SAMPA chip 80 nsec development - Delivery Acceptance - Report feasibility of 80ns		3	100%	14-Mar-19 A	19-Mar-19 A	14-Mar-19	19-Mar-19	0	0	0	0	16701	A-OPC												
S139500	Procure MPW Run of SAMPA v5 components - Contract Award		0	100%	29-Mar-19 A		29-Mar-19		0	0	0	0		A-OPC												
S138315	SAMPA chip 80 nsec development - Leadtime - Layout finalization for MPW and sub		4	100%	24-Apr-19 A	30-Apr-19 A	24-Apr-19	30-Apr-19	0	0	0	0		A-OPC												
S139000	SAMPA chip 80 nsec development - Delivery Acceptance - Design at Layout level of i		1	100%	25-Apr-19 A	26-Apr-19 A	25-Apr-19	26-Apr-19	0	0	0	0	16701	A-OPC												
S139010	SAMPA chip 80 nsec development - Delivery Acceptance - Layout finalization for MP		1	100%	01-May-19 A	02-May-19 A	01-May-19	02-May-19	0	0	0	0	16701	A-OPC												
S139700	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	0	59704	A-OPC												
S139710	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	0	16701	A-OPC												
S139715	Procure second phase of SAMPA development - Delivery of Results from first round i		4	100%	21-May-19 A	28-May-19 A	21-May-19	28-May-19	0	0	0	0	16701	A-OPC												
S139720	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	0	35000	38,614	38,614	16701	A-OPC												
S139725	Procure second phase of SAMPA development - Delivery of Final Review of test resu		11	100%	17-Jul-19 A	31-Jul-19 A	09-Jul-19	05-Aug-19	0	70000	77,229	77,229	16701	A-OPC												
S139730	Procure second phase of SAMPA development - Delivery of Eng Design Review		20	100%	01-Aug-19 A	28-Aug-19 A	06-Aug-19	03-Sep-19	0	47500	52,405	52,405	16701	A-OPC												
S139735	Procure second phase of SAMPA development - Delivery of Eng Run Preparation		1	100%	29-Aug-19 A	30-Aug-19 A	04-Sep-19	01-Oct-19	0	20000	22,065	22,100	16701	A-OPC												
S140200	Procure Engineering Run of Full SAMPA Chip - Contract Award		0	100%	31-Oct-19 A		15-Nov-19		0	0	0	0		A-TEC												
S140400	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	0	233000	265,137	265,137	59704	A-TEC												
S140500	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	0	3000	3,414	3,414	59704	A-TEC												
<b>TPC FEE Production</b>		<b>269</b>	<b>291</b>		<b>28-Oct-20 A</b>	<b>29-Dec-21</b>	<b>02-Jun-20</b>	<b>30-Dec-21</b>	<b>1500</b>	<b>847551</b>	<b>1,105,868</b>	<b>1,103,470</b>														
S141600	Procure TPC FEE Production Components, Phase 2 (All except Optical and SAMPA		0	100%	28-Oct-20 A		22-Jul-20		0	0	0	0		A-TEC												
S141800	Procure TPC FEE Production Components, Phase 2 (All except Optical and SAMPA	19	176	85%	02-Nov-20 A	16-Jul-21	04-Jan-21	08-Jan-21	0	266694	309,548	309,548	59704	A-TEC												
S142300	Procure TPC FEE LV Power Supplies - Contract Award(s)		0	100%	20-Jan-21 A		16-Jun-20		0	0	0	0		A-TEC												
S142500	Procure TPC FEE LV Power Supplies - Delivery Acceptance	87	110	60%	25-Jan-21 A	29-Jun-21	15-Dec-20	21-Dec-20	0	190056	220,595	220,595	59704	A-TEC												
S143270	TPC FEE Electrical Engineering Support 1	269	229	36.96%	01-Feb-21 A	29-Dec-21	01-Feb-21	30-Dec-21	1500	0	120,026	119,731	59704	A-TEC												
S143271	TPC FEE Electrical Engineering Support 2	269	229	36.96%	01-Feb-21 A	29-Dec-21	01-Feb-21	30-Dec-21	0	0	0	0	59704	A-TEC												
S143250	TPC Front End Electronics Protection Components	14	96	33.2%	15-Feb-21 A	30-Jun-21	01-Dec-20	30-Apr-21	0	150000	174,103	174,103	59704	A-TEC												
S136300	Procure TPC FEE Cooling System - Contract Award(s)		0	100%	25-Feb-21 A		02-Jun-20		0	0	0	0		A-TEC												
S136500	Procure TPC FEE Cooling System - Delivery Acceptance	145	80	17.8%	15-Mar-21 A	06-Jul-21	21-Dec-20	28-Dec-20	0	60155	69,821	69,821	59704	A-TEC												
S141500	Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Componen	4	103	33.2%	15-Mar-21 A	06-Aug-21	04-Jan-21	08-Jan-21	0	29663	34,429	34,429	59704	A-TEC												
S143000	Procure TPC FEE Production Boards & Assembly - Contract Award(s)		0	100%	30-Apr-21 A		11-Jan-21		0	0	0	0		A-TEC												
S141300	Procure TPC FEE Production Components, Phase 1 (Optical Transceiver Componen	4	0	0%	02-Jul-21		22-Jul-20		0	0	0	0		A-TEC												
S143200	Procure TPC FEE Production Boards & Assembly - Delivery Acceptance	4	5	0%	29-Sep-21	05-Oct-21	31-Mar-21	06-Apr-21	0	150983	177,347	175,244	59704	A-TEC												
<b>TPC DAM</b>		<b>268</b>	<b>943</b>		<b>26-Mar-18 A</b>	<b>30-Dec-21</b>	<b>26-Mar-18</b>	<b>30-Dec-21</b>	<b>368</b>	<b>500953</b>	<b>625,361</b>	<b>625,242</b>														
<b>TPC DAM Evaluation -- FELIX 2.0</b>			<b>483</b>		<b>26-Mar-18 A</b>	<b>28-Feb-20 A</b>	<b>26-Mar-18</b>	<b>24-Sep-19</b>	<b>0</b>	<b>78963</b>	<b>87,117</b>	<b>87,117</b>														
S144400	Procure TPC DAM Felix 2.0 Boards Evaluation - Contract Award(s)		0	100%	26-Mar-18 A		26-Mar-18		0	0	0	0		A-OPC												
S145100	Procure TPC DAM Felix 2.0 Boards - Optical - Contract Award(s)		0	100%	01-Aug-19 A		03-Jun-19		0	0	0	0		A-OPC												
S145750	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	0	2876	3,173	3,173	16701	A-OPC												
S146300	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	0	2563	2,828	2,828	16701	A-OPC												
S145700	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	0	73524	81,116	81,116	16701	A-OPC												
<b>TPC DAM Production</b>		<b>268</b>	<b>334</b>		<b>27-Aug-20 A</b>	<b>30-Dec-21</b>	<b>18-Mar-20</b>	<b>30-Dec-21</b>	<b>368</b>	<b>421990</b>	<b>538,243</b>	<b>538,125</b>														
S147100	Procure TPC DAM Felix 2.0 Boards - Contract Award(s)		0	100%	27-Aug-20 A		18-Mar-20		0	0	0	0		A-TEC												
S147300	Procure TPC DAM Felix 2.0 Boards - Delivery Acceptance	55	146	80%	02-Dec-20 A	30-Jun-21	04-Jan-21	08-Jan-21	0	130362	151,309	151,309	59705	A-TEC												
S147380	TPC DAM Electrical Engineering Support	268	230	36%	01-Feb-21 A	30-Dec-21	01-Feb-21	30-Dec-21	368	0	48,446	48,327	59705	A-TEC												
S148200	Procure TPC EDBC Computers & Peripherals - Contract Award(s)		0	100%	30-Apr-21 A		07-Oct-20		0	0	0	0		A-TEC												
S147350	Procure TPC DAM Felix 2.0 Optical Components - Contract Award(s)	32	0	0%	01-Jun-21		18-Mar-20		0	0	0	0		A-TEC												
S148400	Procure TPC EDBC Computers & Peripherals - Delivery Acceptance	2	5	0%	14-Sep-21	20-Sep-21	07-Jan-21	13-Jan-21	0	210883	244,769	244,769	59705	A-TEC												
S147370	Procure TPC DAM Felix 2.0 Optical Components - Contract/PO - Delivery Acceptanc	88	5	0%	20-Sep-21	24-Sep-21	04-Jan-21	08-Jan-21	0	80745	93,719	93,719	59705	A-TEC												
<b>TPC Support Systems</b>		<b>75</b>	<b>386</b>		<b>02-Apr-20 A</b>	<b>14-Oct-21</b>	<b>30-Sep-19</b>	<b>30-Jun-21</b>	<b>0</b>	<b>599383</b>	<b>696,010</b>	<b>687,912</b>														
<b>TPC Laser System</b>		<b>126</b>	<b>205</b>		<b>06-Oct-20 A</b>	<b>02-Aug-21</b>	<b>30-Sep-19</b>	<b>30-Jun-21</b>	<b>0</b>	<b>421640</b>	<b>489,391</b>	<b>484,338</b>														
S149600	Procure TPC Lasers - Delivery Acceptance	123	194	50%	06-Oct-20 A	16-Jul-21	26-Jun-20	02-Jul-20	0	145840	169,274	165,955	59706	A-TEC												
S150100	Procure TPC Optics with Mirrors - Contract Award(s)		0	100%	13-Oct-20 A		07-Jan-20		0	0	0	0		A-TEC												
S150300	Procure TPC Optics with Mirrors - Delivery Acceptance	128	188	50%	13-Oct-20 A	14-Jul-21	02-Apr-20	08-Apr-20	0	58800	68,248	66,910	59706	A-TEC												
S149400	Procure TPC Lasers - Contract Award(s)		0	100%	20-Oct-20 A		07-Jan-20		0	0	0	0		A-TEC												
S149650	TPC Diffuse Lasers	57	147	50%	04-Jan-21 A	02-Aug-21	01-Dec-20	30-Jun-21	0	200000	232,137	232,137	59706	A-TEC												
S150500	Procure TPC mirror bundles with supports M&S	123	140	50%	13-Jan-21 A	02-Aug-21	30-Sep-19	27-Dec-19	0	15000	17,410	17,060	59706	A-TEC												
S150800	Install & Test TPC Laser safety interlocks M&S	126	8	0%	22-Jul-21	02-Aug-21	09-Jul-20	20-Jul-20	0	2000	2,321	2,276	59706	A-TEC												
<b>TPC Gas System</b>		<b>70</b>	<b>386</b>		<b>02-Apr-20 A</b>	<b>14-Oct-21</b>	<b>30-Dec-19</b>	<b>12-Jan-21</b>	<b>0</b>	<b>111244</b>	<b>129,435</b>	<b>127,399</b>														
S152100	Procure TPC Gas System Equipment - Contract Award(s)		0	100%	02-Apr-20 A		02-Apr-20		0	0																

Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020				2021			
															FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22
S152500	Procure TPC Gas System scrubbers M&S		240	100%	13-Apr-20 A	30-Mar-21 A	30-Dec-19	11-Feb-20	0	7727	8,793	8,793	59706	A-TEC												
S152300	Procure TPC Gas System Equipment - Contract/PO - Delivery Acceptance	40	119	70%	12-Jan-21 A	01-Jul-21	14-May-20	20-May-20	0	33035	38,343	37,591	59706	A-TEC												
S153700	Procure TPC Gas System Components for Installation - Delivery Acceptance	40	125	70%	08-Mar-21 A	31-Aug-21	06-Jan-21	12-Jan-21	0	34086	40,354	39,563	59706	A-TEC												
S153500	Procure TPC Gas System Components for Installation - Contract Award(s)		0	100%	11-Mar-21 A		19-Nov-20		0	0	0	0		A-TEC												
S153000	Procure TPC Gas System Computer Controller M&S	70	35	0%	25-Aug-21	14-Oct-21	17-Aug-20	05-Oct-20	0	18401	21,468	20,975	59706	A-TEC												
<b>TPC Cooling System</b>		<b>88</b>	<b>151</b>		<b>15-Feb-21 A</b>	<b>17-Sep-21</b>	<b>05-Mar-20</b>	<b>08-Dec-20</b>	<b>0</b>	<b>66499</b>	<b>77,184</b>	<b>76,175</b>														
S155000	Procure TPC Cooling System Equipment - Delivery Acceptance		74	100%	15-Feb-21 A	31-May-21 A	29-May-20	04-Jun-20	0	44339	51,464	50,454	59706	A-TEC												
S154800	Procure TPC Cooling System Equipment - Contract Award(s)		0	100%	02-Apr-21 A		05-Mar-20		0	0	0	0		A-TEC												
S155700	Procure TPC Plumbing - Contract/PO M&S	88	20	0%	13-Aug-21	10-Sep-21	08-Oct-20	01-Dec-20	0	11667	13,542	13,542	59706	A-TEC												
S155900	Set up TPC Cooling System computer controls M&S	88	5	0%	13-Sep-21	17-Sep-21	02-Dec-20	08-Dec-20	0	10493	12,179	12,179	59706	A-TEC												
<b>EMCal</b>		<b>245</b>	<b>1252</b>		<b>01-Feb-17 A</b>	<b>03-Feb-22</b>	<b>01-Feb-17</b>	<b>12-Jan-22</b>	<b>23167</b>	<b>4610997</b>	<b>6,076,889</b>	<b>6,070,008</b>														
S156400	Actuals - Nonlabor - sPHENIX EMCal FY17		168	100%	01-Feb-17 A	29-Sep-17 A	01-Feb-17	29-Sep-17	0	40977	45,714	45,714	16702	A-OPC												
S156500	Actuals - Nonlabor - sPHENIX EMCal FY18		248	100%	02-Oct-17 A	28-Sep-18 A	02-Oct-17	28-Sep-18	0	415271	463,282	463,282	16702	A-OPC												
S1001879	Actuals - Nonlabor - sPHENIX EMCal FY19M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	73248	80,812	80,812	59708	A-TEC												
S156510	Actuals - Nonlabor - sPHENIX EMCal FY19M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	634129	699,612	699,612	16702	A-OPC												
<b>EMCAL Block Fabrication</b>		<b>263</b>	<b>1109</b>		<b>31-Jul-17 A</b>	<b>07-Jan-22</b>	<b>31-Jul-17</b>	<b>27-Sep-21</b>	<b>19647</b>	<b>2657524</b>	<b>3,605,221</b>	<b>3,600,159</b>														
<b>EMCAL Preproduction Prototype Block Production</b>			<b>603</b>		<b>23-May-18 A</b>	<b>19-Oct-20 A</b>	<b>23-May-18</b>	<b>21-May-20</b>	<b>2876</b>	<b>265619</b>	<b>425,617</b>	<b>425,673</b>														
<b>Fabricate blocks for preproduction prototype Sector 0</b>			<b>146</b>		<b>01-Oct-18 A</b>	<b>03-May-19 A</b>	<b>01-Oct-18</b>	<b>03-May-19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>														
S158500	Fabricate & test batch No. 2 of 8 batches of 12 blocks for preproduction prototype Se		32	100%	01-Oct-18 A	16-Nov-18 A	01-Oct-18	16-Nov-18	0	0	0	0	16702	A-OPC												
S158600	Fabricate & test batch No. 3 of 8 batches of 12 blocks for preproduction prototype Se		23	100%	15-Oct-18 A	16-Nov-18 A	15-Oct-18	16-Nov-18	0	0	0	0	16702	A-OPC												
S158700	Fabricate & test batch No. 4 of 8 batches of 12 blocks for preproduction prototype Se		80	100%	08-Nov-18 A	08-Mar-19 A	08-Nov-18	08-Mar-19	0	0	0	0	16702	A-OPC												
S158800	Fabricate & test batch No. 5 of 8 batches of 12 blocks for preproduction prototype Se		56	100%	16-Nov-18 A	11-Feb-19 A	16-Nov-18	11-Feb-19	0	0	0	0	16702	A-OPC												
S158900	Fabricate & test batch No. 6 of 8 batches of 12 blocks for preproduction prototype Se		15	100%	20-Mar-19 A	10-Apr-19 A	20-Mar-19	10-Apr-19	0	0	0	0	16702	A-OPC												
S159000	Fabricate & test batch No. 7 of 8 batches of 12 blocks for preproduction prototype Se		27	100%	27-Mar-19 A	03-May-19 A	27-Mar-19	03-May-19	0	0	0	0	16702	A-OPC												
S159100	Fabricate & test batch No. 8 of 8 batches of 12 blocks for preproduction prototype Se		22	100%	03-Apr-19 A	03-May-19 A	03-Apr-19	03-May-19	0	0	0	0	16702	A-OPC												
<b>Pack and ship preproduction blocks to BNL Sector 0</b>			<b>145</b>		<b>02-Oct-18 A</b>	<b>03-May-19 A</b>	<b>02-Oct-18</b>	<b>03-May-19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>														
S159200	Ship batch No. 1 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		4	100%	02-Oct-18 A	09-Oct-18 A	02-Oct-18	09-Oct-18	0	0	0	0	16702	A-OPC												
S159300	Ship batch No. 1 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		4	100%	02-Oct-18 A	09-Oct-18 A	02-Oct-18	09-Oct-18	0	0	0	0	16702	A-OPC												
S159400	Ship batch No. 2 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		4	100%	15-Oct-18 A	19-Oct-18 A	15-Oct-18	19-Oct-18	0	0	0	0	16702	A-OPC												
S159500	Ship batch No. 2 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		4	100%	15-Oct-18 A	19-Oct-18 A	15-Oct-18	19-Oct-18	0	0	0	0	16702	A-OPC												
S159600	Ship batch No. 3 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		4	100%	22-Oct-18 A	26-Oct-18 A	22-Oct-18	26-Oct-18	0	0	0	0	16702	A-OPC												
S159700	Ship batch No. 3 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		4	100%	22-Oct-18 A	26-Oct-18 A	22-Oct-18	26-Oct-18	0	0	0	0	16702	A-OPC												
S159800	Ship batch No. 4 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		14	100%	11-Mar-19 A	29-Mar-19 A	11-Mar-19	29-Mar-19	0	0	0	0	16702	A-OPC												
S159900	Ship batch No. 4 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		14	100%	11-Mar-19 A	29-Mar-19 A	11-Mar-19	29-Mar-19	0	0	0	0	16702	A-OPC												
S160000	Ship batch No. 5 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		15	100%	20-Mar-19 A	10-Apr-19 A	20-Mar-19	10-Apr-19	0	0	0	0	16702	A-OPC												
S160100	Ship batch No. 5 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		15	100%	20-Mar-19 A	10-Apr-19 A	20-Mar-19	10-Apr-19	0	0	0	0	16702	A-OPC												
S160200	Ship batch No. 6 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		10	100%	27-Mar-19 A	10-Apr-19 A	27-Mar-19	10-Apr-19	0	0	0	0	16702	A-OPC												
S160300	Ship batch No. 6 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		10	100%	27-Mar-19 A	10-Apr-19 A	27-Mar-19	10-Apr-19	0	0	0	0	16702	A-OPC												
S160400	Ship batch No. 7 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		22	100%	03-Apr-19 A	03-May-19 A	03-Apr-19	03-May-19	0	0	0	0	16702	A-OPC												
S160500	Ship batch No. 7 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		22	100%	03-Apr-19 A	03-May-19 A	03-Apr-19	03-May-19	0	0	0	0	16702	A-OPC												
S160600	Ship batch No. 8 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		14	100%	15-Apr-19 A	03-May-19 A	15-Apr-19	03-May-19	0	0	0	0	16702	A-OPC												
S160700	Ship batch No. 8 of 8 batches of 12 preproduction prototype blocks for Sector 0 to BI		14	100%	15-Apr-19 A	03-May-19 A	15-Apr-19	03-May-19	0	0	0	0	16702	A-OPC												
<b>Order Material for EMCal Block Preproduction</b>			<b>461</b>		<b>23-May-18 A</b>	<b>30-Mar-20 A</b>	<b>23-May-18</b>	<b>30-Sep-19</b>	<b>662</b>	<b>252659</b>	<b>289,754</b>	<b>289,754</b>														
OBLG1	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Obligation 3rd batch FY19		0	100%	23-May-18 A	23-May-18 A	23-May-18	23-May-18	0	0	0	0		A-OPC												
OBLG1	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	0		A-OPC												
S162300	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 1st batch		0	100%	23-May-18 A		23-May-18		0	0	0	0		A-OPC												
S162400	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 2nd batch FY		0	100%	23-May-18 A		23-May-18		0	0	0	0		A-OPC												
S162500	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 3rd batch FY		0	100%	23-May-18 A		23-May-18		0	0	0	0		A-OPC												
S162600	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Contract Award 4th batch		0	100%	23-May-18 A		23-May-18		0	0	0	0		A-OPC												
OBLG1	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	0		A-OPC												
S165400	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	0		A-OPC												
OBLG1	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	0		A-OPC												
S163600	Order screens for EMCal Prepro Sectors 1-12 & 13-64 Blocks - Contract Award		0	100%	28-Aug-18 A		28-Aug-18		0	0	0	0		A-OPC												
OBLG1	Order epoxy for EMCal Prepro Sectors 1-12 Blocks - Obligation																									

Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020		2021	
															FY19	FY20	FY21	FY22	FY20	FY21	FY22	
S161400	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Contract Award		0	100%	09-Oct-18 A		09-Oct-18		0	0	0	0		A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S163100	Procure EMCAL fibers for Prepro Sectors 1-12 Blocks - Delivery acceptance 4th batc		26	100%	15-Oct-18 A	21-Nov-18 A	15-Oct-18	21-Nov-18	0	0	0	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S164000	Order screens for EMCAL Prepro Sectors 1-12 & 13-64 Blocks - Delivery acceptance		118	100%	16-Oct-18 A	09-Apr-19 A	16-Oct-18	09-Apr-19	0	0	0	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S161600	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Delivery acceptance Ph2		1	100%	22-Oct-18 A	23-Oct-18 A	22-Oct-18	23-Oct-18	0	0	0	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S164700	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	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S165800	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	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S165700	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	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S165802	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	662	0	11,004	11,004	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S164702	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	0	33239	36,671	36,671	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S161700	Procure EMCAL W powder for Prepro Sectors 1-12 Blocks - Delivery acceptance Ph2		20	100%	03-Sep-19 A	30-Sep-19 A	03-Jun-19	26-Jul-19	0	219420	242,078	242,078	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
<b>Fabricate EMCAL Prepro blocks Sectors 1-12</b>			<b>386</b>		<b>01-Apr-19 A</b>	<b>09-Oct-20 A</b>	<b>01-Apr-19</b>	<b>14-May-20</b>	<b>1974</b>	<b>0</b>	<b>110,695</b>	<b>110,780</b>			Procure EMCAL W powder for Prepro Sectors 1-12							
S165900	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	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S165902	Fabricate EMCAL Prepro blocks sector 1 Split		63	100%	01-Jul-19 A	30-Sep-19 A	01-Oct-19	13-Nov-19	126	0	6,820	7,104	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166000	Fabricate EMCAL Prepro blocks sector 2		60	100%	01-Oct-19 A	31-Dec-19 A	01-Oct-19	05-Nov-19	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166100	Fabricate EMCAL Prepro blocks sector 3		28	100%	19-Dec-19 A	31-Jan-20 A	06-Nov-19	13-Dec-19	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166200	Fabricate EMCAL Prepro blocks sector 4		22	100%	03-Feb-20 A	04-Mar-20 A	16-Dec-19	07-Jan-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166300	Fabricate EMCAL Prepro blocks sector 5		61	100%	05-Mar-20 A	29-May-20 A	08-Jan-20	29-Jan-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166400	Fabricate EMCAL Prepro blocks sector 6		30	100%	06-May-20 A	17-Jun-20 A	30-Jan-20	20-Feb-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166500	Fabricate EMCAL Prepro blocks sector 7		10	100%	01-Jul-20 A	15-Jul-20 A	21-Feb-20	05-Mar-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166600	Fabricate EMCAL Prepro blocks sector 8		10	100%	16-Jul-20 A	29-Jul-20 A	06-Mar-20	19-Mar-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166700	Fabricate EMCAL Prepro blocks sector 9		12	100%	30-Jul-20 A	14-Aug-20 A	20-Mar-20	02-Apr-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166800	Fabricate EMCAL Prepro blocks sector 10		19	100%	17-Aug-20 A	11-Sep-20 A	03-Apr-20	16-Apr-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S166900	Fabricate EMCAL Prepro blocks sector 11		10	100%	14-Sep-20 A	25-Sep-20 A	17-Apr-20	30-Apr-20	168	0	9,425	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167000	Fabricate EMCAL Prepro blocks sector 12		10	100%	28-Sep-20 A	09-Oct-20 A	01-May-20	14-May-20	168	0	9,623	9,425	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
<b>Pack and ship EMCAL Blocks for Prepro Sectors 1-12 to BNL</b>			<b>327</b>		<b>01-Jul-19 A</b>	<b>19-Oct-20 A</b>	<b>06-Nov-19</b>	<b>21-May-20</b>	<b>240</b>	<b>12960</b>	<b>25,168</b>	<b>25,139</b>			Procure EMCAL W powder for Prepro Sectors 1-12							
S167100	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	20	0	831	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167200	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	0	1080	1,192	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167300	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167400	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167500	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167600	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167700	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167800	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S167900	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168000	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168100	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168200	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168300	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168400	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168500	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168600	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168700	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	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168800	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S168900	Pack and ship EMCAL blocks for Prepro sector 10 to BNL Purchased Services		5	100%	14-Sep-20 A	18-Sep-20 A	17-Apr-20	23-Apr-20	20	0	866	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S169000	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	0	1080	1,229	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S169100	Pack and ship EMCAL blocks for Prepro sector 11 to BNL Purchased Services		5	100%	01-Oct-20 A	07-Oct-20 A	01-May-20	07-May-20	20	0	892	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S169200	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	0	1080	1,254	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S169300	Pack and ship EMCAL blocks for Prepro sector 12 to BNL Purchased Services		5	100%	13-Oct-20 A	19-Oct-20 A	15-May-20	21-May-20	20	0	892	866	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S169400	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	0	1080	1,254	1,229	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
<b>EMCAL Final Block Production</b>		<b>263</b>	<b>816</b>		<b>01-Oct-18 A</b>	<b>07-Jan-22</b>	<b>01-Oct-18</b>	<b>27-Sep-21</b>	<b>16771</b>	<b>2391905</b>	<b>3,179,604</b>	<b>3,174,486</b>			Procure EMCAL W powder for Prepro Sectors 1-12							
<b>Order Material for EMCAL Final Block Production</b>		<b>289</b>	<b>790</b>		<b>01-Oct-18 A</b>	<b>30-Nov-21</b>	<b>01-Oct-18</b>	<b>20-Sep-21</b>	<b>9485</b>	<b>2349785</b>	<b>2,843,327</b>	<b>2,842,739</b>			Procure EMCAL W powder for Prepro Sectors 1-12							
S169600	Procure EMCAL W Powder 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	0	16702	A-OPC	Procure EMCAL W powder for Prepro Sectors 1-12							
S170800	Procure EMCAL Fibers for Final Blocks- Contract Award(s)		0	100%	21-Dec-18 A		21-Dec-18		0	0	0	0		A-TEC	Procure EMCAL W powder for Prepro Sectors 1-12							
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	0		A-TEC	Procure EMCAL W powder for Prepro Sectors 1-12							
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	0	59708	A-TEC	Procure EMCAL W powder for Prepro Sectors 1-12							
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	0	59708	A-TEC	Procure EMCAL W powder for Prepro Sectors 1-12							
S170000	Procure EMCAL W Powder for Final Blocks - Contract Award(s)		0	100%	31-May-19 A		31-May-19		0	0	0	0		A-TEC	Procure EMCAL W powder for Prepro Sectors 1-12							
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	0	36624	40,406	40,406	59708	A-TEC	Procure EMCAL W powder for Prepro Sectors 1-12							



Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020				2021				
															FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	
S175300	Fabricate final blocks sector 36		6	100%	10-May-21 A	17-May-21 A	05-Jan-21	12-Jan-21	135	0	5,163	5,163	59708	A-TEC													
S175400	Fabricate final blocks sector 37		6	100%	18-May-21 A	25-May-21 A	13-Jan-21	21-Jan-21	135	0	5,163	5,163	59708	A-TEC													
S175500	Fabricate final blocks sector 38	15	6	94%	26-May-21 A	03-Jun-21	22-Jan-21	29-Jan-21	135	0	5,163	5,163	59708	A-TEC													
S175600	Fabricate final blocks sector 39	15	6	0%	04-Jun-21	11-Jun-21	01-Feb-21	08-Feb-21	135	0	5,163	5,163	59708	A-TEC													
S175700	Fabricate final blocks sector 40	15	6	0%	14-Jun-21	21-Jun-21	09-Feb-21	17-Feb-21	135	0	5,163	5,163	59708	A-TEC													
S175800	Fabricate final blocks sector 41	15	6	0%	22-Jun-21	29-Jun-21	18-Feb-21	25-Feb-21	135	0	5,163	5,163	59708	A-TEC													
S175900	Fabricate final blocks sector 42	15	6	0%	30-Jun-21	08-Jul-21	26-Feb-21	05-Mar-21	135	0	5,163	5,163	59708	A-TEC													
S176000	Fabricate final blocks sector 43	15	6	0%	09-Jul-21	16-Jul-21	08-Mar-21	15-Mar-21	135	0	5,163	5,163	59708	A-TEC													
S176100	Fabricate final blocks sector 44	15	6	0%	19-Jul-21	26-Jul-21	16-Mar-21	23-Mar-21	135	0	5,163	5,163	59708	A-TEC													
S176200	Fabricate final blocks sector 45	15	6	0%	27-Jul-21	03-Aug-21	24-Mar-21	31-Mar-21	135	0	5,163	5,163	59708	A-TEC													
S176300	Fabricate final blocks sector 46	15	6	0%	04-Aug-21	11-Aug-21	01-Apr-21	08-Apr-21	135	0	5,163	5,163	59708	A-TEC													
S176400	Fabricate final blocks sector 47	15	6	0%	12-Aug-21	19-Aug-21	09-Apr-21	16-Apr-21	135	0	5,163	5,163	59708	A-TEC													
S176500	Fabricate final blocks sector 48	15	6	0%	20-Aug-21	27-Aug-21	19-Apr-21	26-Apr-21	135	0	5,163	5,163	59708	A-TEC													
S176600	Fabricate final blocks sector 49	15	6	0%	30-Aug-21	07-Sep-21	27-Apr-21	04-May-21	135	0	5,163	5,163	59708	A-TEC													
S176700	Fabricate final blocks sector 50	15	6	0%	08-Sep-21	15-Sep-21	05-May-21	12-May-21	135	0	5,163	5,163	59708	A-TEC													
S176800	Fabricate final blocks sector 51	15	6	0%	16-Sep-21	23-Sep-21	13-May-21	20-May-21	135	0	5,163	5,163	59708	A-TEC													
S176900	Fabricate final blocks sector 52	15	6	0%	24-Sep-21	01-Oct-21	21-May-21	28-May-21	135	0	5,189	5,163	59708	A-TEC													
S177000	Fabricate final blocks sector 53	15	6	0%	04-Oct-21	12-Oct-21	01-Jun-21	08-Jun-21	135	0	5,318	5,163	59708	A-TEC													
S177100	Fabricate final blocks sector 54	15	6	0%	13-Oct-21	20-Oct-21	09-Jun-21	16-Jun-21	135	0	5,318	5,163	59708	A-TEC													
S177200	Fabricate final blocks sector 55	15	6	0%	21-Oct-21	28-Oct-21	17-Jun-21	24-Jun-21	135	0	5,318	5,163	59708	A-TEC													
S177300	Fabricate final blocks sector 56	15	5	0%	29-Oct-21	04-Nov-21	25-Jun-21	02-Jul-21	135	0	5,318	5,163	59708	A-TEC													
S177400	Fabricate final blocks sector 57	15	5	0%	05-Nov-21	12-Nov-21	06-Jul-21	13-Jul-21	135	0	5,318	5,163	59708	A-TEC													
S177500	Fabricate final blocks sector 58	15	5	0%	15-Nov-21	19-Nov-21	14-Jul-21	21-Jul-21	135	0	5,318	5,163	59708	A-TEC													
S177600	Fabricate final blocks sector 59	15	5	0%	22-Nov-21	30-Nov-21	22-Jul-21	29-Jul-21	135	0	5,318	5,163	59708	A-TEC													
S177700	Fabricate final blocks sector 60	15	5	0%	01-Dec-21	07-Dec-21	30-Jul-21	06-Aug-21	135	0	5,318	5,163	59708	A-TEC													
S177800	Fabricate final blocks sector 61	15	5	0%	08-Dec-21	14-Dec-21	09-Aug-21	16-Aug-21	135	0	5,318	5,163	59708	A-TEC													
S177900	Fabricate final blocks sector 62	15	5	0%	15-Dec-21	21-Dec-21	17-Aug-21	24-Aug-21	135	0	5,318	5,163	59708	A-TEC													
S178000	Fabricate final blocks sector 63	15	5	0%	22-Dec-21	29-Dec-21	25-Aug-21	01-Sep-21	135	0	5,318	5,163	59708	A-TEC													
S178100	Fabricate final blocks sector 64	15	5	0%	30-Dec-21	06-Jan-22	02-Sep-21	10-Sep-21	135	0	5,318	5,163	59708	A-TEC													
<b>Pack and ship final blocks to BNL</b>		<b>263</b>	<b>301</b>		<b>22-Oct-20 A</b>	<b>07-Jan-22</b>	<b>20-Jul-20</b>	<b>27-Sep-21</b>	<b>266</b>	<b>42120</b>	<b>65,933</b>	<b>65,191</b>															
S178300	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	20	0	1,223	1,187	59708	A-TEC													
S178310	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	0	3240	3,761	3,687	59708	A-TEC													
S178400	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	41	0	2,561	2,502	59708	A-TEC													
S178410	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	0	6480	7,521	7,403	59708	A-TEC													
S178500	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	41	0	2,561	2,561	59708	A-TEC													
S178510	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	0	6480	7,521	7,521	59708	A-TEC													
S178600	Pack and ship final blocks for sectors 33-40 to BNL - Purchased Services	136	30	38%	17-May-21 A	28-Jun-21	18-Feb-21	24-Feb-21	41	0	2,561	2,561	59708	A-TEC													
S178610	Pack and ship final blocks for sectors 33-40 to BNL - M&S	146	30	38%	17-May-21 A	28-Jun-21	18-Feb-21	24-Feb-21	0	6480	7,521	7,521	59708	A-TEC													
S178700	Pack and ship final blocks for sectors 40-48 to BNL - Purchased Services	93	5	0%	30-Aug-21	03-Sep-21	27-Apr-21	03-May-21	41	0	2,561	2,561	59708	A-TEC													
S178710	Pack and ship final blocks for sectors 40-48 to BNL - M&S	98	5	0%	30-Aug-21	03-Sep-21	27-Apr-21	03-May-21	0	6480	7,521	7,521	59708	A-TEC													
S178800	Pack and ship final blocks for sectors 49-56 to BNL - Purchased Services	51	5	0%	05-Nov-21	12-Nov-21	06-Jul-21	12-Jul-21	41	0	2,638	2,561	59708	A-TEC													
S178910	Pack and ship final blocks for sectors 49-56 to BNL - M&S	51	5	0%	05-Nov-21	12-Nov-21	06-Jul-21	12-Jul-21	0	6480	7,672	7,521	59708	A-TEC													
S176010	Pack and ship final blocks for sectors 57-64 to BNL - M&S	15	1	0%	07-Jan-22	07-Jan-22	13-Sep-21	17-Sep-21	0	6480	7,672	7,521	59708	A-TEC													
S178900	Pack and ship final blocks for sectors 57-64 to BNL - Purchased Services	15	1	0%	07-Jan-22	07-Jan-22	21-Sep-21	27-Sep-21	41	0	2,638	2,561	59708	A-TEC													
<b>EMCAL Block Fabrication Procurement</b>			<b>580</b>		<b>31-Jul-17 A</b>	<b>25-Nov-19 A</b>	<b>31-Jul-17</b>	<b>01-Oct-19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>															
OBLG17	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	0		A-OPC													
S179300	Procure Contracted Labor Univ. Illinois Urbana-Champaign (UIUC) - Contract Award		0	100%	31-Jul-17 A		31-Jul-17		0	0	0	0		A-OPC													
S179600	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) - Contra		0	100%	25-Nov-19 A		24-Jul-19		0	0	0	0		A-TEC													
S179601	Procure Contracted Labor and M&S Univ. Illinois Urbana-Champaign (UIUC) - Contra		0	100%	25-Nov-19 A		01-Oct-19		0	0	0	0		A-TEC													
<b>EMCAL Module Fabrication and Sector Assembly</b>		<b>245</b>	<b>834</b>		<b>01-Oct-18 A</b>	<b>03-Feb-22</b>	<b>01-Oct-18</b>	<b>12-Jan-22</b>	<b>3520</b>	<b>789848</b>	<b>1,182,247</b>	<b>1,180,429</b>															
<b>Set up Module Fabrication, Sector Assembly and Test area</b>			<b>208</b>		<b>31-Oct-18 A</b>	<b>30-Aug-19 A</b>	<b>31-Oct-18</b>	<b>31-Jul-19</b>	<b>0</b>	<b>10150</b>	<b>11,198</b>	<b>11,198</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	0	16702	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	0	16702	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	0	10150	11,198	11,198	16702	A-OPC													
<b>EMCAL Module Fabrication</b>		<b>0</b>	<b>834</b>		<b>01-Oct-18 A</b>	<b>03-Feb-22</b>	<b>01-Oct-18</b>	<b>08-Oct-21</b>	<b>0</b>	<b>363072</b>	<b>408,024</b>	<b>406,824</b>															
<b>EMCAL Preprod Sector 0, 1-12 Module Fabrication</b>			<b>550</b>		<b>01-Oct-18 A</b>	<b>14-Dec-20 A</b>	<b>01-Oct-18</b>	<b>04-Jun-20</b>	<b>0</b>	<b>93198</b>	<b>104,474</b>	<b>103,290</b>															
S182900	Procure mechanical parts for modules for preproduction prototype sector 0 M&S FY1		21	100%	01-Oct-18 A	31-Oct-18 A	01-Oct-18	31-Oct-18	0	0	0	0	16702	A-OPC													
S183200	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	0	16702	A-OPC													

Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020		2021			
															FY19	FY20	FY21	FY22	FY20	FY21	FY22			
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	0	16702	A-OPC										
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	0	16702	A-OPC										
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	0		A-OPC										
S184700	Procure light guides for modules in Sectors (Prepro) 1-12 - Contract/PO Leadtime		84	100%	01-Mar-19 A	28-Jun-19 A	01-Mar-19	26-Aug-19	0	0	0	0		A-OPC										
S185300	Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Contract Award(s)		0	100%	01-Aug-19 A		11-Oct-19		0	0	0	0		A-OPC										
S184800	Procure light guides for modules in Sectors (Prepro) 1-12 - Delivery Acceptance		320	100%	03-Sep-19 A	14-Dec-20 A	27-Aug-19	03-Sep-19	0	79700	89,114	87,930	16702	A-OPC										
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	0	350	398	398	16702	A-OPC										
S185500	Procure mechanical parts for modules in Sectors (Prepro) 1-12 - Delivery Acceptance		11	100%	16-Oct-19 A	31-Oct-19 A	12-Dec-19	12-Dec-19	0	13148	14,961	14,961	16702	A-OPC										
<b>EMCAL Final Module Fabrication</b>		<b>0</b>	<b>448</b>		<b>20-Apr-20 A</b>	<b>03-Feb-22</b>	<b>20-Apr-20</b>	<b>08-Oct-21</b>	<b>0</b>	<b>269874</b>	<b>303,551</b>	<b>303,534</b>												
S187200	Procure light guides for modules in Sectors 13-64 - Contract Award		0	100%	20-Apr-20 A		20-Apr-20		0	0	0	0		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	0		A-TEC										
S186900	Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Contract Award		0	100%	30-Jun-20 A		22-Jul-20		0	0	0	0		A-TEC										
S187100	Procure EMCAL Mechanical Parts for Final Modules Sectors 13-64 - Delivery Acceptance		29	100%	15-Oct-20 A	30-Nov-20 A	15-Dec-20	21-Dec-20	0	52680	61,145	61,145	59709	A-TEC										
S187400	Procure light guides for modules in Sectors 13-64 - Delivery Acceptance	164	112	69%	22-Dec-20 A	02-Jun-21	10-Sep-20	30-Dec-20	0	215244	240,129	240,129	59709	A-TEC										
S187700	Install light guides on final blocks M&S	0	257	28%	21-Jan-21 A	31-Jan-22	02-Sep-20	30-Sep-21	0	1650	1,926	1,912	59709	A-TEC										
S188100	Install SiPMs daughterboards on final blocks M&S	0	259	27%	22-Jan-21 A	03-Feb-22	11-Sep-20	08-Oct-21	0	300	350	348	59709	A-TEC										
<b>EMCAL Sector Assembly</b>		<b>260</b>	<b>797</b>		<b>01-Nov-18 A</b>	<b>12-Jan-22</b>	<b>01-Nov-18</b>	<b>12-Jan-22</b>	<b>3520</b>	<b>416626</b>	<b>763,025</b>	<b>762,406</b>												
<b>EMCAL Preproduction Sector Assembly and Testing</b>			<b>528</b>		<b>01-Nov-18 A</b>	<b>14-Dec-20 A</b>	<b>01-Nov-18</b>	<b>21-Feb-20</b>	<b>0</b>	<b>94376</b>	<b>107,376</b>	<b>107,376</b>												
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	0	16702	A-OPC										
S190900	Procure parts for cooling system 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	0	16702	A-OPC										
S190902	Procure parts for cooling system for preproduction prototype Sector 0 M&S FY19 (see		16	100%	01-May-19 A	23-May-19 A	01-May-19	23-May-19	0	0	0	0	16702	A-OPC										
S190302	Procure mechanical parts for preproduction prototype Sector 0 M&S FY19 Split		19	100%	03-Jun-19 A	28-Jun-19 A	03-Jun-19	01-Jul-19	0	0	0	0	16702	A-OPC										
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	0	500	552	552	16702	A-OPC										
S192600	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	0		A-OPC										
S192620	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	0		A-TEC										
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	0		A-OPC										
S192810	Procure mechanical parts for Prepro Sectors 1-12, Phase 2 - Delivery Acceptance		158	100%	10-Oct-19 A	29-May-20 A	02-Jan-20	06-Jan-20	0	36798	41,873	41,873	59709	A-TEC										
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	0	19780	22,508	22,508	16702	A-OPC										
S192800	Procure mechanical parts for Prepro Sectors 1-12, Phase 1 - Delivery Acceptance		150	100%	23-Oct-19 A	29-May-20 A	02-Jan-20	06-Jan-20	0	36798	41,873	41,873	16702	A-OPC										
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	0	500	569	569	16702	A-OPC										
<b>EMCAL Final Production Sector Assembly</b>		<b>260</b>	<b>383</b>		<b>30-Jun-20 A</b>	<b>12-Jan-22</b>	<b>15-Jul-20</b>	<b>12-Jan-22</b>	<b>3520</b>	<b>322250</b>	<b>655,649</b>	<b>655,031</b>												
S195200	Procure EMCAL Mechanical Parts for Final Sectors - Contract Award(s)		0	100%	30-Jun-20 A		15-Jul-20		0	0	0	0		A-TEC										
S195900	Procure EMCAL Cooling System for Final Sectors - Contract Award(s)		0	100%	31-Jul-20 A		15-Jul-20		0	0	0	0		A-TEC										
S195400	Procure EMCAL Mechanical Parts for Final Sectors - Delivery Acceptance	0	187	90%	14-Sep-20 A	14-Jun-21	04-Jan-21	08-Jan-21	0	251357	291,746	291,746	59709	A-TEC										
S196910	Technical support labor for EMCAL assembly	260	257	42%	04-Jan-21 A	12-Jan-22	04-Jan-21	12-Jan-22	3520	0	281,618	281,000	59709	A-TEC										
S196100	Procure EMCAL Cooling System for Final Sectors - Delivery Acceptance	0	103	35%	18-Jan-21 A	14-Jun-21	08-Feb-21	12-Feb-21	0	70893	82,284	82,284	59709	A-TEC										
<b>HCal</b>		<b>294</b>	<b>1203</b>		<b>01-Feb-17 A</b>	<b>19-Nov-21</b>	<b>01-Feb-17</b>	<b>19-Nov-21</b>	<b>5927</b>	<b>3590801</b>	<b>4,103,866</b>	<b>4,099,592</b>												
S197600	Actuals - Nonlabor - sPHENIX HCal FY17		168	100%	01-Feb-17 A	29-Sep-17 A	01-Feb-17	29-Sep-17	0	2708	3,021	3,021	16703	A-OPC										
S197700	Actuals - Nonlabor - sPHENIX HCal FY18		248	100%	02-Oct-17 A	28-Sep-18 A	02-Oct-17	28-Sep-18	0	127709	142,473	142,473	16703	A-OPC										
S1001919	Actuals - Nonlabor - sPHENIX HCal FY19M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	16812	18,548	18,548	59712	A-TEC										
S197710	Actuals - Nonlabor - sPHENIX HCal FY19M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	415146	458,016	458,016	16703	A-OPC										
<b>Inner HCal Support Structure &amp; Support Rings</b>		<b>294</b>	<b>225</b>		<b>30-Dec-20 A</b>	<b>19-Nov-21</b>	<b>13-Feb-20</b>	<b>19-Nov-21</b>	<b>0</b>	<b>1077182</b>	<b>1,201,719</b>	<b>1,201,719</b>												
S199800	Manufacture Inner HCal Support Rings - Contract Award(s)		0	100%	30-Dec-20 A		13-Feb-20		0	0	0	0		A-TEC										
S199100	Manufacture Inner HCal Support Structure - Contract Award(s)		0	100%	31-Dec-20 A		01-Oct-20		0	0	0	0		A-TEC										
S200000	Manufacture Inner HCal Support Rings - Delivery Acceptance		3	100%	17-May-21 A	20-May-21 A	06-Jul-21	12-Jul-21	0	127182	141,886	141,886	59710	A-TEC										
S199300	Manufacture Inner HCal Support Structure - Delivery Acceptance 1	366	0	0%	09-Aug-21*	09-Aug-21	21-Jun-21	25-Jun-21	0	237500	264,958	264,958	59710	A-TEC										
S199310	Manufacture Inner HCal Support Structure - Delivery Acceptance 2	356	5	0%	16-Aug-21*	20-Aug-21	16-Aug-21	20-Aug-21	0	237500	264,958	264,958	59710	A-TEC										
S199320	Manufacture Inner HCal Support Structure - Delivery Acceptance 3	328	5	0%	24-Sep-21*	30-Sep-21	24-Sep-21	30-Sep-21	0	237500	264,958	264,958	59710	A-TEC										
S199330	Manufacture Inner HCal Support Structure - Delivery Acceptance 4	6	5	0%	15-Nov-21*	19-Nov-21	15-Nov-21	19-Nov-21	0	237500	264,958	264,958	59710	A-TEC										
<b>Outer HCal Sector Mechanical Structure</b>			<b>609</b>		<b>16-Oct-18 A</b>	<b>26-Mar-21 A</b>	<b>16-Oct-18</b>	<b>29-Apr-20</b>	<b>0</b>	<b>306560</b>	<b>354,909</b>	<b>348,843</b>												
S204300	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	0	16703	A-OPC										
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	0	40000	45,517	45,517	59711	A-TEC										
S206000	Procure Outer HCal Lifting Fixtures & Supports - Contract Award(s)		0	100%	27-Nov-19 A		13-Dec-19		0	0	0	0		A-TEC										
S204900	Procure Outer HCal Splice Plates - Contract Award(s)		0	100%	09-Jun-20 A		01-Oct-19		0	0	0	0		A-TEC										
S205100	Procure Outer HCal Splice Plates - Delivery Acceptance		24	100%	22-Feb-21 A	26-Mar-21 A	13-Feb-20	20-Feb-20	0	266560	309,392	303,325	59711	A-TEC</										

Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020				2021			
															FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22
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	0	A-TEC													
S208220	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	0	185242	204,371	204,371	59712	A-TEC												
S208300	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	0	143106	159,651	159,651	59712	A-TEC												
S208302	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	0	113203	126,291	126,291	59712	A-TEC												
S208303	Procure Outer HCal Scintillating Tiles (Prod) - Delivery Acceptance 3		7	100%	20-Jan-20 A	30-Jan-20 A	18-Dec-19	21-Dec-19	0	113203	126,291	126,291	59712	A-TEC												
S208304	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	0	113203	126,291	126,291	59712	A-TEC												
S208306	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	0	226406	252,582	252,582	59712	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	650	0	11,641	11,583	59712	A-TEC												
S208308	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	0	226406	252,582	252,582	59712	A-TEC												
S208310	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	0	211458	235,905	235,905	59712	A-TEC												
S208312	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	0	211458	235,905	235,905	59712	A-TEC												
Outer HCal Sector Assembly and Testing			652		17-Aug-18 A	31-Mar-21 A	17-Aug-18	17-Sep-21	5277	101000	193,672	195,522														
Outer HCal Sector Assembly and Testing - Preproduction			591		17-Aug-18 A	30-Dec-20 A	17-Aug-18	18-Jun-20	1117	6800	24,005	24,148														
OBLG2C	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	0	A-OPC													
OBLG2C	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	0	A-OPC													
OBLG2C	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	0	A-OPC													
S201700	Procure Outer HCal Scint. Tiles for Preproduction - Contract Award(s) Batch 1		0	100%	17-Aug-18 A		17-Aug-18		0	0	0	0	A-OPC													
S201800	Procure Outer HCal Scint. Tiles for Preproduction - Contract Award(s) Batch 2		0	100%	17-Aug-18 A		17-Aug-18		0	0	0	0	A-OPC													
S201900	Procure Outer HCal Scint. Tiles for Preproduction - Contract Award(s) Batch 3		0	100%	17-Aug-18 A		17-Aug-18		0	0	0	0	A-OPC													
S202900	Procure Table for Outer HCal sector assembly and testing area (Preproduction) - M8		111	100%	16-Oct-18 A	28-Mar-19 A	16-Oct-18	28-Mar-19	0	0	0	0	16703	A-OPC												
S203000	Procure Miscellaneous Tools for Outer HCal sector assembly and testing area (Prep)		64	100%	01-Mar-19 A	31-May-19 A	01-Mar-19	31-May-19	0	0	0	0	16703	A-OPC												
S202200	Procure Outer HCal Scint. Tiles for Preproduction - Delivery Acceptance Batch 1		11	100%	12-Mar-19 A	27-Mar-19 A	12-Mar-19	27-Mar-19	0	0	0	0	16703	A-OPC												
S202300	Procure Outer HCal Scint. Tiles for Preproduction - Delivery Acceptance Batch 2		14	100%	03-Apr-19 A	23-Apr-19 A	03-Apr-19	23-Apr-19	0	0	0	0	16703	A-OPC												
S202400	Procure Outer HCal Scint. Tiles for Preproduction - Delivery Acceptance Batch 3		15	100%	02-May-19 A	23-May-19 A	02-May-19	23-May-19	0	0	0	0	16703	A-OPC												
S202510	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	0	16703	A-OPC												
S203002	Procure Miscellaneous Tools for Outer HCal sector assembly and testing area (Prep)		121	100%	03-Jun-19 A	25-Nov-19 A	03-Jun-19	19-Sep-19	0	2000	2,207	2,207	16703	A-OPC												
S202512	Outer HCal Scintillating Tile Acceptance Testing (Preproduction) Split		9	100%	01-Jul-19 A	15-Jul-19 A	03-Jun-19	26-Aug-19	125	0	2,117	2,117	16703	A-OPC												
S203200	Populate Outer HCal sectors with electronics (Preproduction)		331	100%	01-Aug-19 A	30-Nov-20 A	27-Feb-20	20-May-20	248	0	3,591	3,591	16703	A-OPC												
S203100	Populate Outer HCal sectors with scintillating tiles (Preproduction)		20	100%	02-Aug-19 A	30-Aug-19 A	31-Oct-19	30-Jan-20	248	0	3,447	3,591	16703	A-OPC												
S208800	Procure Contracted Labor Georgia State Univ. (GSU), Phase 1 - Contract Award		0	100%	07-Aug-19 A		03-Jun-19		0	0	0	0	A-OPC													
S208900	Procure Contracted Labor Georgia State Univ. (GSU), Phase 1 - Delivery Acceptance		18	100%	07-Aug-19 A	30-Aug-19 A	03-Jun-19	26-Aug-19	0	0	0	0	16703	A-OPC												
S203300	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	248	0	3,591	3,591	16703	A-OPC												
S203400	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	0	4800	5,462	5,462	16703	A-OPC												
S203500	Outer HCal Cosmics testing and initial calibration (Preproduction)		274	100%	25-Nov-19 A	30-Dec-20 A	26-Mar-20	18-Jun-20	248	0	3,591	3,591	16703	A-OPC												
Outer HCal Sector Assembly and Testing - Production			332		02-Dec-19 A	31-Mar-21 A	27-Aug-19	17-Sep-21	4160	94200	169,667	171,374														
S210600	Procure Contracted Labor Georgia State Univ. (GSU), Phase 2 - Contract Award		0	100%	02-Dec-19 A		27-Aug-19		0	0	0	0	A-TEC													
S210700	Procure Contracted Labor Georgia State Univ. (GSU), Phase 2 - Delivery Acceptance		21	100%	02-Dec-19 A	31-Dec-19 A	27-Aug-19	25-Aug-20	0	0	0	0	16703	A-TEC												
S209400	Procure Outer HCal Assembly & Testing Equipment - Contract Award(s)		0	100%	05-Jun-20 A		22-Sep-20		0	0	0	0	A-TEC													
S209600	Procure Outer HCal Assembly & Testing Equipment- Delivery Acceptance		8	100%	20-Jul-20 A	30-Jul-20 A	19-Nov-20	25-Nov-20	0	75000	85,344	87,051	59713	A-TEC												
S209800	Populate Outer HCal sectors with scintillating tiles		152	100%	17-Aug-20 A	30-Mar-21 A	17-Feb-21	19-Aug-21	1040	0	15,509	15,509	59713	A-TEC												
S209900	Populate Outer HCal sectors with electronics		71	100%	15-Dec-20 A	30-Mar-21 A	24-Feb-21	26-Aug-21	1040	0	15,509	15,509	59713	A-TEC												
S210000	Outer HCal Sector LED testing and Light Tighting		71	100%	15-Dec-20 A	30-Mar-21 A	03-Mar-21	02-Sep-21	1040	0	15,509	15,509	59713	A-TEC												
S210100	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	0	19200	22,285	22,285	59713	A-TEC												
S210200	Outer HCal Cosmics testing and initial calibration		71	100%	15-Dec-20 A	30-Mar-21 A	10-Mar-21	10-Sep-21	1040	0	15,509	15,509	59713	A-TEC												
S210310	Technical support labor for HCal		22	100%	01-Mar-21 A	31-Mar-21 A	01-Apr-21	17-Sep-21	0	0	0	0	59713	A-TEC												
Calorimeter Electronics			249	1248	01-Feb-17 A	28-Jan-22	01-Feb-17	30-Jul-21	2184	5473041	6,317,637	6,290,621														
S211400	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY17		168	100%	01-Feb-17 A	29-Sep-17 A	01-Feb-17	29-Sep-17	0	29927	33,387	33,387	16704	A-OPC												
S211500	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY18		248	100%	02-Oct-17 A	28-Sep-18 A	02-Oct-17	28-Sep-18	0	35131	39,193	39,193	16704	A-OPC												
S1000879	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY19 M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	347247	383,105	383,105	16704	A-OPC												
S1001959	Actuals - Nonlabor - sPHENIX Calorimeter Electronics FY19 M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	58345	64,370	64,370	59714	A-TEC												
SiPMs			363		12-Sep-18 A	28-Feb-20 A	12-Sep-18	21-Jul-20	1000	621610	706,393	705,540														
S212600	EMCal/HCal sensors Preproduction - 23K Units - Contract Award		0	100%	12-Sep-18 A		12-Sep-18		0	0	0	0	A-OPC													
S212700	EMCal/HCal sensors Production - 77K Units - Contract Award		0	100%	12-Sep-18 A		12-Sep-18		0	0	0	0	A-TEC													
S213010	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	0	16704	A-OPC												
S213000	EMCal/HCal sensors Preproduction - 8K Units - Delivery Acceptance No. 1		26	100%	04-Mar-19 A																					

Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020				2021				
															FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	
S215600	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	80	0	1,226	1,277	59714	A-TEC													
S215800	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	80	0	1,277	1,277	59714	A-TEC													
S213210	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	80	0	1,226	1,226	16704	A-OPC													
S214900	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	0	69520	76,699	76,699	59714	A-TEC													
S213300	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	70	0	1,073	1,073	16704	A-OPC													
S215900	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	80	0	1,277	1,277	59714	A-TEC													
S245000	Procure Test stand for SiPMs		101	100%	01-Aug-19 A	30-Dec-19 A	23-Jul-19	30-Sep-19	0	22000	24,272	24,272	16704	A-OPC													
S215000	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	0	69520	76,699	76,699	59714	A-TEC													
S215100	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	0	69520	77,557	76,699	59714	A-TEC													
S215200	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	0	69520	77,557	77,512	59714	A-TEC													
S215300	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	0	69520	77,557	77,557	59714	A-TEC													
S215310	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	0	69520	77,557	77,557	59714	A-TEC													
S216000	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	80	0	1,277	1,277	59714	A-TEC													
S215320	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	0	69520	77,557	77,557	59714	A-TEC													
S215400	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	0	43450	48,473	48,473	59714	A-TEC													
S216100	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	80	0	1,277	1,277	59714	A-TEC													
S216200	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	80	0	1,277	1,277	59714	A-TEC													
S216300	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	80	0	1,277	1,277	59714	A-TEC													
S216310	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	80	0	1,277	1,277	59714	A-TEC													
S216320	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	80	0	1,277	1,277	59714	A-TEC													
S216400	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	50	0	798	798	59714	A-TEC													
Calorimeter Front End Electronics		249	830		01-Oct-18 A	28-Jan-22	01-Oct-18	30-Jul-21	1184	3121465	3,636,536	3,620,491															
EMCal Electronics: Preproduction			664		01-Oct-18 A	28-May-21 A	01-Oct-18	20-Feb-20	120	457861	521,897	521,731															
S219300	Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Preproduction [Sector 0]		133	100%	01-Oct-18 A	16-Apr-19 A	01-Oct-18	16-Apr-19	0	0	0	0	16704	A-OPC													
S219500	Procure EMCal External Signal and Power Cables, and Power Systems: Preproducti		133	100%	01-Oct-18 A	16-Apr-19 A	01-Oct-18	16-Apr-19	0	0	0	0	16704	A-OPC													
S218700	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	0	16704	A-OPC													
S219000	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	0	16704	A-OPC													
S218300	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	0	16704	A-OPC													
S223300	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	0	20221	22,309	23,010	16704	A-OPC													
S223610	Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12 - Contract /		0	100%	01-Oct-19 A		01-Oct-19		0	0	0	0	16712	A-TEC													
S223700	Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12, Phase 1 -		144	100%	01-Oct-19 A	30-Apr-20 A	01-Oct-19	07-Oct-19	0	42072	47,875	47,875	16704	A-OPC													
S223701	Procure EMCal Internal Signal/Test/Comm/LV/Bias Cables: Sectors 1-12, Phase 2 -		144	100%	01-Oct-19 A	30-Apr-20 A	01-Oct-19	07-Oct-19	0	42072	47,875	47,875	59715	A-TEC													
S224300	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	0	3080	3,505	3,505	16704	A-OPC													
S224400	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	0	12320	14,019	14,019	59715	A-TEC													
S222000	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 1 - Contract Award(s)		0	100%	22-Oct-19 A		16-Dec-19		0	0	0	0	A-OPC														
S222001	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 2 - Contract Award(s)		0	100%	22-Oct-19 A		16-Dec-19		0	0	0	0	A-TEC														
S222800	Fabricate EMCal Interface Board: Sectors 1-12, Phase 1 - Contract Award(s)		0	100%	01-Nov-19 A		09-Dec-19		0	0	0	0	A-OPC														
S222801	Fabricate EMCal Interface Board: Sectors 1-12, Phase 2 - Contract Award(s)		0	100%	01-Nov-19 A		09-Dec-19		0	0	0	0	A-TEC														
S221300	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	0	25487	29,002	29,002	16704	A-OPC													
S222200	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 1 - Delivery Acceptance		5	100%	03-Jan-20 A	09-Jan-20 A	06-Feb-20	12-Feb-20	0	78925	89,811	89,811	16704	A-OPC													
S222201	Fabricate EMCal Preamp Boards: Sectors 1-12, Phase 2 - Delivery Acceptance		5	100%	03-Jan-20 A	09-Jan-20 A	06-Feb-20	12-Feb-20	0	78925	89,811	89,811	59715	A-TEC													
S222300	Test EMCal Preamp Boards: Sectors 1-12		182	100%	10-Jan-20 A	29-Sep-20 A	13-Feb-20	20-Feb-20	120	0	1,915	1,915	16704	A-OPC													
S223000	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	0	29435	33,495	33,495	16704	A-OPC													
S223001	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	0	29435	33,495	33,495	59715	A-TEC													
S225900	Procure EMCal External Bias Power System: Sectors 1-12, Phase 1 - Contract Awar		0	100%	01-Apr-20 A		16-Dec-19		0	0	0	0	A-OPC														
S226000	Procure EMCal External Bias Power System: Sectors 1-12, Phase 2 - Contract Awar		0	100%	01-Apr-20 A		16-Dec-19		0	0	0	0	A-TEC														
S223900	Procure EMCal External LV/Bias Signal/Comm/Test Cables: Sectors 1-12, Phase 1 -		5	100%	01-Apr-20 A	07-Apr-20 A	01-Oct-19	07-Oct-19	0	10720	11,959	11,959	16704	A-OPC													
S224000	Procure EMCal External LV/Bias Signal/Comm/Test Cables: Sectors 1-12, Phase 2 -		5	100%	01-Apr-20 A	07-Apr-20 A	01-Oct-19	07-Oct-19	0	42880	47,838	47,838	59715	A-TEC													
S226100	Procure EMCal External Bias Power System: Sectors 1-12, Phase 1 - Contract/PO -		223	100%	01-Apr-20 A	23-Feb-21 A	16-Dec-19	12-Feb-20	0	0	0	0	A-OPC														
S226200	Procure EMCal External Bias Power System: Sectors 1-12, Phase 2 - Contract/PO -		224	100%	01-Apr-20 A	24-Feb-21 A	16-Dec-19	12-Feb-20	0	0	0	0	A-TEC														
S225300	Test Pulse Boards 1-12 - M&S		10	100%	03-Aug-20 A	14-Aug-20 A																					



Activity ID	Activity Name	Total Float	At Completion	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020				2021			
															FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22	FY19	FY20	FY21	FY22
OBLG25	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	0		A-OPC												
OBLG25	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	0		A-OPC												
S248200	Procure 1/2-Crate Digitizer - Contract/PO - Delivery Acceptance for Assembly & Tests		6	100%	20-Jun-19 A	28-Jun-19 A	11-Jul-19	17-Jul-19	0	50000	55,163	55,163	16704	A-OPC												
S250400	Procure EMCAL 7-Crate Digitizer - Parts - Contract Award		0	100%	01-Aug-19 A		03-Jun-19		0	0	0	0		A-OPC												
S250500	Procure EMCAL 7-Crate Digitizer - Boards - Contract Award		0	100%	01-Aug-19 A		03-Jun-19		0	0	0	0		A-OPC												
S251000	Procure EMCAL 7-Crate Digitizer - Parts - Delivery Acceptance		57	100%	03-Sep-19 A	25-Nov-19 A	13-Sep-19	19-Sep-19	0	177359	199,806	195,674	16704	A-OPC												
S251100	Procure EMCAL 7-Crate Digitizer (Boards) - Delivery Acceptance		154	100%	19-Nov-19 A	30-Jun-20 A	13-Sep-19	19-Sep-19	0	39371	44,801	43,437	16704	A-OPC												
S250600	Procure EMCAL 7-Crate Digitizer - Assembly & Tests - Contract Award		0	100%	02-Dec-19 A		03-Jun-19		0	0	0	0		A-OPC												
S251200	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	0	79858	90,872	90,872	16704	A-OPC												
<b>Calorimeter Digitizers: Production</b>		<b>61</b>	<b>252</b>		<b>02-Nov-20 A</b>	<b>03-Nov-21</b>	<b>01-Oct-20</b>	<b>29-Mar-21</b>	<b>0</b>	<b>912728</b>	<b>1,064,010</b>	<b>1,059,389</b>														
S252100	Procure Production Digitizer (Parts) Contract Award(s)		0	100%	02-Nov-20 A		01-Oct-20		0	0	0	0		A-TEC												
S252200	Procure Production Digitizer (Boards) Contract Award(s)		0	100%	02-Nov-20 A		01-Oct-20		0	0	0	0		A-TEC												
S252300	Procure Production Digitizer (Assembly & Tests) - Contract Award(s)		0	100%	02-Nov-20 A		01-Oct-20		0	0	0	0		A-TEC												
S252700	Procure Production Digitizer (Parts) - Delivery Acceptance	61	70	37%	30-Apr-21 A	09-Aug-21	23-Dec-20	30-Dec-20	0	584602	678,538	678,538	59716	A-TEC												
S252800	Procure Production Digitizer (Boards) - Delivery Acceptance	61	5	0%	03-Aug-21	09-Aug-21	23-Dec-20	30-Dec-20	0	129049	149,785	149,785	59716	A-TEC												
S252900	Procure Production Digitizer (Assembly & Tests) - Delivery Acceptance	61	5	0%	28-Oct-21	03-Nov-21	23-Mar-21	29-Mar-21	0	199077	235,687	231,066	59716	A-TEC												
<b>DAQ/Trigger</b>		<b>300</b>	<b>1197</b>		<b>01-Feb-17 A</b>	<b>10-Nov-21</b>	<b>01-Feb-17</b>	<b>29-Jun-21</b>	<b>0</b>	<b>1077580</b>	<b>1,249,676</b>	<b>1,245,090</b>														
S253400	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	0	16705	A-OPC												
S253500	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY18		248	100%	02-Oct-17 A	28-Sep-18 A	02-Oct-17	28-Sep-18	0	2493	2,782	2,782	16705	A-OPC												
S1000959	Actuals - Nonlabor - sPHENIX DAQ&Trigger FY18		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	21020	23,191	23,191	16705	A-OPC												
<b>DAQ Production</b>		<b>50</b>	<b>399</b>		<b>30-Mar-20 A</b>	<b>28-Oct-21</b>	<b>20-Apr-20</b>	<b>05-May-21</b>	<b>0</b>	<b>634317</b>	<b>737,727</b>	<b>735,858</b>														
S260100	Procure DAQ Production Main Switches - Contract Award(s)		0	100%	30-Mar-20 A		16-Jun-20		0	0	0	0		A-TEC												
S260300	Procure DAQ Production Main Switches - Delivery Acceptance		3	100%	21-Apr-20 A	24-Apr-20 A	09-Dec-20	15-Dec-20	0	86151	99,994	99,994	59718	A-TEC												
S257400	Procure DAQ Production SEBs - Contract Award(s)		0	100%	30-Sep-20 A		16-Jun-20		0	0	0	0		A-TEC												
S258200	Procure DAQ Production ATPs - Contract Award(s)		0	100%	30-Sep-20 A		16-Jun-20		0	0	0	0		A-TEC												
S258400	Procure DAQ Production ATPs - Delivery Acceptance		25	100%	22-Oct-20 A	30-Nov-20 A	12-Apr-21	16-Apr-21	0	98048	113,803	113,803	59718	A-TEC												
S259300	Procure DAQ Production Buffer Boxes - Contract Award(s)		0	100%	28-Oct-20 A		16-Jun-20		0	0	0	0		A-TEC												
S257600	Procure DAQ Production SEBs - Delivery Acceptance		20	100%	28-Oct-20 A	30-Nov-20 A	08-Mar-21	12-Mar-21	0	41040	47,634	47,634	59718	A-TEC												
S259500	Procure DAQ Production Buffer Boxes - Delivery Acceptance	154	130	16%	23-Nov-20 A	01-Jun-21	29-Apr-21	05-May-21	0	223540	259,459	259,459	59718	A-TEC												
S255700	Procure DAQ Production Boards - Contract Award(s)	5	0	0%	01-Jun-21		18-May-20		0	0	0	0		A-TEC												
S256500	Procure DAQ Production Crates - Contract Award(s)	44	0	0%	01-Jun-21		20-Apr-20		0	0	0	0		A-TEC												
S258700	Procure DAQ Production jSEB Slow control computers - Delivery Acceptance	120	5	0%	01-Jul-21	08-Jul-21	23-Jun-20	29-Jun-20	0	16856	19,564	19,181	59718	A-TEC												
S255900	Procure DAQ Production Boards - Delivery Acceptance	5	5	0%	23-Sep-21	29-Sep-21	08-Mar-21	12-Mar-21	0	104682	121,503	121,503	59718	A-TEC												
S256700	Procure DAQ Production Crates - Delivery Acceptance	44	5	0%	22-Oct-21	28-Oct-21	08-Mar-21	12-Mar-21	0	64000	75,769	74,284	59718	A-TEC												
<b>Local Level 1 Trigger (LL1)</b>		<b>31</b>	<b>780</b>		<b>28-Sep-18 A</b>	<b>10-Nov-21</b>	<b>28-Sep-18</b>	<b>29-Jun-21</b>	<b>0</b>	<b>350000</b>	<b>405,018</b>	<b>402,302</b>														
<b>LL1 Trigger Design</b>			<b>169</b>		<b>28-Sep-18 A</b>	<b>04-Jun-19 A</b>	<b>28-Sep-18</b>	<b>04-Jun-19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>														
S261400	Trigger Design, Layout Custom LL1 - Contract Award(s)		0	100%	28-Sep-18 A		28-Sep-18		0	0	0	0		A-TEC												
S261600	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	0	59719	A-TEC												
<b>LL1 Trigger Prototype v1</b>			<b>177</b>		<b>01-Jul-19 A</b>	<b>17-Mar-20 A</b>	<b>03-Jul-19</b>	<b>17-Mar-20</b>	<b>0</b>	<b>173000</b>	<b>196,861</b>	<b>196,861</b>														
S262300	Procure Prototype V1 Trigger Board - Contract Award(s)		0	100%	01-Jul-19 A		03-Jul-19		0	0	0	0		A-TEC												
S262500	Procure Prototype V1 Trigger Board - Delivery Acceptance		5	100%	11-Mar-20 A	17-Mar-20 A	11-Mar-20	17-Mar-20	0	173000	196,861	196,861	59719	A-TEC												
<b>LL1 Trigger Preproduction Prototype</b>		<b>31</b>	<b>88</b>		<b>01-Mar-21 A</b>	<b>01-Jul-21</b>	<b>28-Jul-20</b>	<b>07-Dec-20</b>	<b>0</b>	<b>60000</b>	<b>69,641</b>	<b>69,641</b>														
S263400	Procure Trigger Preproduction Prototype LL1 - Contract Award(s)		0	100%	01-Mar-21 A		28-Jul-20		0	0	0	0		A-TEC												
S263600	Procure Trigger Preproduction Prototype LL1 - Delivery Acceptance	31	5	0%	25-Jun-21	01-Jul-21	01-Dec-20	07-Dec-20	0	60000	69,641	69,641	59719	A-TEC												
<b>LL1 Trigger Production</b>		<b>31</b>	<b>157</b>		<b>31-Mar-21 A</b>	<b>10-Nov-21</b>	<b>11-May-21</b>	<b>29-Jun-21</b>	<b>0</b>	<b>117000</b>	<b>138,516</b>	<b>135,800</b>														
S264700	Procure Production LL1 System - Contract Award(s)		0	100%	31-Mar-21 A		11-May-21		0	0	0	0		A-TEC												
S264900	Procure Production LL1 System - Delivery Acceptance	31	5	0%	04-Nov-21	10-Nov-21	23-Jun-21	29-Jun-21	0	117000	138,516	135,800	59719	A-TEC												
<b>Global Level 1 Trigger (GL1)</b>		<b>35</b>	<b>35</b>		<b>30-Jun-21</b>	<b>18-Aug-21</b>	<b>18-Aug-20</b>	<b>07-Jan-21</b>	<b>0</b>	<b>28150</b>	<b>32,673</b>	<b>32,673</b>														
<b>GL1 Trigger Production</b>		<b>35</b>	<b>35</b>		<b>30-Jun-21</b>	<b>18-Aug-21</b>	<b>18-Aug-20</b>	<b>07-Jan-21</b>	<b>0</b>	<b>28150</b>	<b>32,673</b>	<b>32,673</b>														
S267400	Procure Production GL1 Components - Contract Award(s)	35	0	0%	30-Jun-21		18-Aug-20		0	0	0	0		A-TEC												
S267600	Procure Production GL1 Components - final hardware - Delivery Acceptance	35	5	0%	12-Aug-21	18-Aug-21	31-Dec-20	07-Jan-21	0	28150	32,673	32,673	59720	A-TEC												
<b>Timing System</b>		<b>15</b>	<b>55</b>		<b>29-Jun-21</b>	<b>15-Sep-21</b>	<b>06-May-20</b>	<b>15-Jan-21</b>	<b>0</b>	<b>41600</b>	<b>48,284</b>	<b>48,284</b>														
<b>Timing System Production</b>		<b>15</b>	<b>55</b>		<b>29-Jun-21</b>	<b>15-Sep-21</b>	<b>06-May-20</b>	<b>15-Jan-21</b>	<b>0</b>	<b>41600</b>	<b>48,284</b>	<b>48,284</b>														
S270100	Timing System Production (FPGA Boards) - Contract Award(s)	15	0	0%	29-Jun-21		06-May-20		0	0	0	0		A-TEC												
S270300	Timing System Production (FPGA Boards) - Delivery Acceptance	15	5	0%	09-Sep-21	15-Sep-21	11-Jan-21																			

Activity ID	Activity Name	Total Float	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	BNL_Accou Number	BNL_Fund Source	2019				2020		2021		FY22
															FY19	FY20	FY21	FY22	FY20	FY21	FY22		
S271300	Actuals - Nonlabor - sPHENIX MinBias Trigger FY18		248	100%	01-Oct-17 A	28-Sep-18 A	01-Oct-17	28-Sep-18	0	371	414	414	16706	A-OPC									
OBLG272	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	0		A-OPC									
S272400	Procure Prototype Shaper/Disc Electronics - Contract Award(s)		0	100%	28-Sep-18 A		28-Sep-18		0	0	0	0		A-OPC	Procure Prototype Shaper/Disc Electronics - Contra								
S1001039	Actuals - Nonlabor - sPHENIX MinBias Trigger FY19 M8		165	100%	01-Oct-18 A	31-May-19 A	01-Oct-18	31-May-19	0	19492	21,505	21,505	16706	A-OPC									
S272600	Procure Prototype Shaper/Disc Electronics - Delivery Acceptance		24	100%	03-Jun-19 A	08-Jul-19 A	01-Jul-19	08-Jul-19	0	70000	77,229	77,229	16706	A-OPC									
S273200	Procure Min/Bias Electronics - sPHENIX Production Digitizers - Contract Award(s)		0	100%	26-Feb-21 A		07-Apr-20		0	0	0	0		A-TEC									◆ Procure Min
S273300	Procure Shaper/Disc Board 128 Channels - Contract Award(s)		0	100%	01-Apr-21 A		07-Apr-20		0	0	0	0		A-TEC									◆ Procure SI
S273500	Procure Min/Bias Electronics (sPHENIX Production Digitizers) - Delivery Acceptance	30	5	0%	29-Oct-21	04-Nov-21	16-Feb-21	22-Feb-21	0	14770	17,486	17,143	59722	A-TEC									█
S273600	Procure MBD Shaper/Disc Board 128 Channels - Delivery Acceptance	30	5	0%	29-Oct-21	04-Nov-21	16-Feb-21	22-Feb-21	0	46420	54,957	53,879	59722	A-TEC									█