

POM02 sPHENIX WBS 1.x, 2.x February 2021				Total Float < 20d					17-Mar-21 14:55				
Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023
									FY21		FY22	FY23	
S172800	Prepare fiber assemblies for final blocks	529	72%	21-Jun-19 A	02-Aug-21	21-Aug-19	02-Aug-21	163,757					
S295401	(Controls Hardware) Cryo instrument and equipment specifications 70%	456	70%	01-Oct-19 A	28-Jul-21	01-Oct-19	26-May-20	22,997					
S266600	GL1 Prototype: test prototype	310	95%	17-Dec-19 A	15-Mar-21	23-Oct-19	22-Jan-20	44,131					
S269500	Timing System Prototype: evaluate performance, Final Design and Pro	265	95%	24-Feb-20 A	15-Mar-21	12-Nov-19	10-Jan-20	2,754					
S194200	Test and Review Preproduction Sectors 1-12 with LEDs & cosmic rays	234	70%	24-Mar-20 A	01-Mar-21	09-Mar-20	25-Aug-20	67,108					
S110400	Assemble TPC v2 Outer Field Cage	196	95%	01-Jun-20 A	15-Mar-21	01-Apr-20	28-Apr-20	0					
S111900	Assemble TPC v2 Central Membrane	196	85%	01-Jun-20 A	15-Mar-21	13-Feb-20	27-Feb-20	0					
S329408	Conceptual Design for Cable Routing from Detector to Rack (TPC)	186	80%	01-Jul-20 A	31-Mar-21	25-Jun-20	23-Jul-20	14,707					
S329450	Conceptual Design for Routing Detector Cooling System	250	35%	15-Jul-20 A	14-Jul-21	18-Dec-20	26-Jan-21	36,540					
S171800	Procure EMCAL Epoxy for Final Blocks - Delivery Acceptance	240	48%	03-Aug-20 A	19-Jul-21	15-Jun-20	14-Jun-21	104,592					
S172500	Order parts and fabricate molds for EMCal Sectors 13-64 Blocks - Deliv	240	20%	03-Aug-20 A	19-Jul-21	18-May-20	17-May-21	30,218					
S295700	(Controls Hardware) I/O list table	240	88%	07-Aug-20 A	23-Jul-21	27-May-20	17-Jul-20	11,550					
S276900	2021 Facility Support Systems L3 Project Management	250	39.6%	01-Oct-20 A	30-Sep-21	01-Oct-20	30-Sep-21	36,335					
S103200	Mgmt Labor - A - MIE - FY21	250	39.6%	01-Oct-20 A	30-Sep-21*	01-Oct-20	29-Sep-21	170,568					
S103310	Mgmt labor - B - BNL Contributed Labor - FY21 - CA-D Resource(s)	250	39.36%	01-Oct-20 A	30-Sep-21*	01-Oct-20	29-Sep-21	154,145					
S103300	Mgmt labor - B - BNL Contributed Labor - FY21 - Physics Resource(s)	250	39.36%	01-Oct-20 A	30-Sep-21*	01-Oct-20	29-Sep-21	1,589,056					
S274700	2021 Magnet Project Management	250	39.6%	01-Oct-20 A	30-Sep-21	01-Oct-20	30-Sep-21	155,997					
S275300	2021 Cryo L3 Project Management	250	39.6%	01-Oct-20 A	30-Sep-21	01-Oct-20	30-Sep-21	69,972					
S275800	2021 PS & Quench Protection L3 Project Management	250	39.6%	01-Oct-20 A	30-Sep-21	01-Oct-20	30-Sep-21	61,658					
S277500	2021 Detector Support Systems L3 Project Management	250	39.6%	01-Oct-20 A	30-Sep-21	01-Oct-20	30-Sep-21	112,608					
S278100	2021 Integration & Installation Project Management	249	39.6%	02-Oct-20 A	30-Sep-21	01-Oct-20	30-Sep-21	289,478					
S329420	Conceptual Design for Cable Routing from Detector to Rack (MBD)	139	90%	23-Oct-20 A	14-May-21	21-Sep-20	19-Oct-20	11,254					
S329440	Conceptual Design for Routing Rack Cooling System	179	25%	23-Oct-20 A	13-Jul-21	18-Nov-20	17-Dec-20	25,776					
S266700	GL1 Prototype: evaluate performance, Final Design and Production Re	103	40%	03-Nov-20 A	05-Apr-21	23-Jan-20	02-Apr-20	23,889					
S329410	Conceptual Design for Cable Routing from Detector to Rack (MVTX)	126	90%	09-Nov-20 A	12-May-21	21-Aug-20	18-Sep-20	10,142					
S154400	Procure TPC Cooling System equipment (pumps, heat exchanger, PH c	74	85%	17-Nov-20 A	08-Mar-21	27-Nov-19	05-Dec-19	12,547					
S187500	Receive, unpack, log & inspect final blocks	295	20%	23-Nov-20 A	31-Jan-22	31-Aug-20	28-Sep-21	178,031					
S187800	Install reflectors on final blocks Labor	295	15%	23-Nov-20 A	31-Jan-22	04-Sep-20	04-Oct-21	178,148					
S187900	Install reflectors on final blocks M&S	295	15%	23-Nov-20 A	31-Jan-22	04-Sep-20	04-Oct-21	0					
S172870	EMCal Block Production QA	208	30%	01-Dec-20 A	27-Sep-21	01-Dec-20	20-Sep-21	533,915					
S289500	Engineering Support for Procure LN2 supply transfer line system	70	80%	02-Dec-20 A	15-Mar-21	01-Jul-20	02-Sep-20	6,948					
S329409	Conceptual Design for Cable Routing from Detector to Rack (INTT)	78	90%	22-Dec-20 A	14-Apr-21	24-Jul-20	20-Aug-20	11,055					
S329430	Conceptual Design for Routing Fiber Optic Cables from Rack to Patch f	120	80%	22-Dec-20 A	14-Jun-21	20-Oct-20	17-Nov-20	12,327					
S196200	Build mechanical enclosures for final sectors	60	20%	12-Jan-21 A	07-Apr-21	09-Oct-20	08-Jan-21	84,633					
S196300	Build mechanical fixtures for final sectors	60	20%	12-Jan-21 A	07-Apr-21	10-Sep-20	08-Dec-20	84,017					
S196400	Build cooling system for final sectors	93	20%	12-Jan-21 A	24-May-21	16-Nov-20	12-Feb-21	27,303					
S289900	(LN2 supply transfer line system) Detail dwg package	90	40%	18-Jan-21 A	25-May-21	10-Nov-20	09-Feb-21	9,542					
S187600	Install light guides on final blocks Labor	257	11%	21-Jan-21 A	31-Jan-22	02-Sep-20	30-Sep-21	178,070					
S187700	Install light guides on final blocks M&S	257	11%	21-Jan-21 A	31-Jan-22	02-Sep-20	30-Sep-21	1,912					
S188000	Install SiPMs daughterboards on final blocks Labor	259	9%	22-Jan-21 A	03-Feb-22	11-Sep-20	08-Oct-21	178,304					
S188200	Glue final blocks together into modules	259	9%	22-Jan-21 A	03-Feb-22	15-Sep-20	13-Oct-21	178,382					
S188100	Install SiPMs daughterboards on final blocks M&S	259	9%	22-Jan-21 A	03-Feb-22	11-Sep-20	08-Oct-21	348					
S196500	Install modules in final sectors	258	9%	26-Jan-21 A	04-Feb-22	14-Oct-20	13-Oct-21	232,867					
S343860	Start Track Modification - AH Fabricate Track Plates Labor - Internal	42	10%	01-Feb-21 A	31-Mar-21	18-Feb-20	09-Jun-20	7,417					
S343861	Start Track Modification - AH Fabricate Track Plates M&S - Internal	42	10%	01-Feb-21 A	31-Mar-21	18-Feb-20	24-Feb-20	56,896					
S343862	Start Track Modification - AH Install Track Plates and Blocks - Internal	55	10%	01-Feb-21 A	19-Apr-21	07-Dec-20	03-Feb-21	45,650					
S343864	Start Track Modification - AH Survey and Grout Plates Labor - External	64	10%	01-Feb-21 A	30-Apr-21	04-Feb-21	18-Feb-21	44,742					
S343865	Start Track Modification - AH Survey and Grout Plates M&S - External	64	10%	01-Feb-21 A	30-Apr-21	04-Feb-21	04-Feb-21	11,607					
S317180	Prepare Procurement Package for Large Support Rings	29	50%	02-Feb-21 A	15-Mar-21	12-Aug-20	09-Sep-20	29,371					
S154500	Procure TPC Cooling System Equipment - Prepare & Send Solicitation	23	85%	03-Feb-21 A	09-Mar-21	06-Dec-19	21-Jan-20	0					
S143250	TPC Front End Electronics Protection Components	96	33%	15-Feb-21 A	30-Jun-21	01-Dec-20	30-Apr-21	174,103					
S155000	Procure TPC Cooling System Equipment - Delivery Acceptance	117	5%	15-Feb-21 A	30-Jul-21	29-May-20	04-Jun-20	50,454					
			Filtered by: TASK filters: No OBLG, Total Float less than 20 d.					Page 1 of 9					

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Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023
									FY21		FY22	FY23	
S232600	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-	10	50%	22-Feb-21 A	05-Mar-21	17-Apr-20	23-Apr-20	11,382					
S196800	Install cables & cooling system on final sectors	240	6%	22-Feb-21 A	04-Feb-22	18-Dec-20	19-Oct-21	495,600					
S196700	Install readout electronics on final sectors	241	6%	22-Feb-21 A	07-Feb-22	16-Dec-20	15-Oct-21	232,976					
S196900	Test final sectors with LEDs & cosmic rays	239	0%	23-Feb-21 A	04-Feb-22	22-Dec-20	21-Oct-21	124,632					
S174300	Fabricate final blocks sector 26	6	23%	26-Feb-21 A	05-Mar-21	05-Oct-20	13-Oct-20	5,163					
S229300	Fabricate EMCAL Production Preamp Boards Sectors 13-64 - Delivery ,	6	6%	26-Feb-21 A	05-Mar-21	07-Dec-20	11-Dec-20	549,642					
S229400	Test EMCal Preamp Boards: Production Sectors 13-64	86	6%	26-Feb-21 A	28-Jun-21	14-Dec-20	08-Apr-21	6,313					
S263300	Procure Trigger Preproduction Prototype LL1 - Vendor Selection	1	0%	01-Mar-21	01-Mar-21	27-Jul-20	27-Jul-20	0					
S121950	TPC Assembly technical Support	221	0%	01-Mar-21	14-Jan-22	03-May-21	15-Oct-21	23,254					
S263400	Procure Trigger Preproduction Prototype LL1 - Contract Award(s)	0	0%	02-Mar-21		28-Jul-20		0					
S263500	Procure Trigger Preproduction Prototype LL1 - Contract/PO - Leadtime	60	0%	02-Mar-21	24-May-21	28-Jul-20	21-Oct-20	0					
S174400	Fabricate final blocks sector 27	6	0%	08-Mar-21	15-Mar-21	14-Oct-20	21-Oct-20	5,163					
S232700	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-	30	0%	08-Mar-21	16-Apr-21	24-Apr-20	05-Jun-20	0					
S229405	Test EMCal Preamp Boards: Production Sectors 13-64 - Contributed L&	80	0%	08-Mar-21	28-Jun-21	14-Dec-20	08-Apr-21	31,221					
S269502	Procurement Readiness Review - DAQ Timing System	1	0%	15-Mar-21	15-Mar-21	10-Jan-20	10-Jan-20	3,030					
S174500	Fabricate final blocks sector 28	6	0%	16-Mar-21	23-Mar-21	22-Oct-20	29-Oct-20	5,163					
S269600	Update design specifications; incorporate final design choice	15	0%	16-Mar-21	05-Apr-21	13-Jan-20	03-Feb-20	2,065					
S112000	Assemble TPC v2 Field Cage Prototype	20	0%	16-Mar-21	12-Apr-21	15-May-20	12-Jun-20	0					
S317280	Evaluate and Process Bid for Large Support Rings	20	0%	16-Mar-21	12-Apr-21	10-Sep-20	07-Oct-20	5,098					
S154600	Procure TPC Cooling System Equipment - Vendor Responses	3	85%	18-Mar-21 A	22-Mar-21	22-Jan-20	04-Feb-20	0					
S174600	Fabricate final blocks sector 29	6	0%	24-Mar-21	31-Mar-21	30-Oct-20	06-Nov-20	5,163					
S174700	Fabricate final blocks sector 30	6	0%	01-Apr-21	08-Apr-21	09-Nov-20	17-Nov-20	5,163					
S154700	Procure TPC Cooling System Equipment - Vendor Selection	13	85%	01-Apr-21 A	19-Apr-21	05-Feb-20	04-Mar-20	0					
S266702	Procurement Readiness Review - DAQ Global Level-1	1	0%	05-Apr-21	05-Apr-21	02-Apr-20	02-Apr-20	3,030					
S269700	Timing System Production (FPGA Boards) - Provide Requirements to F	5	0%	06-Apr-21	12-Apr-21	04-Feb-20	10-Feb-20	18,829					
S266800	GL1 Prototype: Update design specifications; incorporate final design cl	20	0%	06-Apr-21	03-May-21	03-Apr-20	14-May-20	21,136					
S197000	Repair or rework any sectors as required	208	0%	07-Apr-21	04-Feb-22	23-Dec-20	22-Oct-21	250,055					
S174800	Fabricate final blocks sector 31	6	0%	09-Apr-21	16-Apr-21	18-Nov-20	25-Nov-20	5,163					
S112100	Benchtest TPC v2 Field Cage	5	0%	13-Apr-21	19-Apr-21	15-Jun-20	19-Jun-20	1,277					
S269800	Timing System Production (FPGA Boards) - Prepare & Send Solicitation	30	0%	13-Apr-21	24-May-21	11-Feb-20	24-Mar-20	0					
S317980	Procure Large Support Rings - M&S	80	0%	14-Apr-21	05-Aug-21	09-Oct-20	08-Feb-21	348,205					
S174900	Fabricate final blocks sector 32	6	0%	19-Apr-21	26-Apr-21	30-Nov-20	07-Dec-20	5,163					
S232800	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-	10	0%	19-Apr-21	30-Apr-21	08-Jun-20	19-Jun-20	0					
S154800	Procure TPC Cooling System Equipment - Contract Award(s)	0	0%	20-Apr-21		05-Mar-20		0					
S112200	TPC Field Cage Safety Review	3	0%	27-Apr-21	29-Apr-21	29-Jun-20	01-Jul-20	1,277					
S175000	Fabricate final blocks sector 33	6	0%	27-Apr-21	04-May-21	08-Dec-20	15-Dec-20	5,163					
S154900	Procure TPC Cooling System Equipment - Contract/PO - Leadtime	53	0%	29-Apr-21 A	14-Jul-21	05-Mar-20	28-May-20	0					
S112300	Final Design Review - TPC Field Cage	3	0%	30-Apr-21	04-May-21	02-Jul-20	07-Jul-20	1,277					
S343866	Start Track Modification - AH Finish AH Installation	0	0%		30-Apr-21		18-Feb-21	0					
S348700	Assemble base, carriage alignment and carriage roller supports - Labor	10	0%	03-May-21	14-May-21	19-Feb-21	15-Apr-21	60,730					
S348800	Assemble base, carriage alignment and carriage roller supports - M&S	10	0%	03-May-21	14-May-21	19-Feb-21	15-Apr-21	2,902					
S348710	Assemble base, carriage alignment and carriage roller supports - Labor	10	0%	03-May-21	14-May-21	19-Feb-21	15-Apr-21	46,728					
S232900	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-	20	0%	03-May-21	28-May-21	22-Jun-20	20-Jul-20	0					
S267000	Procure Production GL1 Components - Provide Requirements to Procu	5	0%	04-May-21	10-May-21	15-May-20	21-May-20	6,196					
S266900	GL1 Production: final firmware updates	90	0%	04-May-21	09-Sep-21	15-May-20	22-Sep-20	62,378					
S112400	Design TPC v2 Field Cage Modifications	5	0%	05-May-21	11-May-21	08-Jul-20	14-Jul-20	4,182					
S175100	Fabricate final blocks sector 34	6	0%	05-May-21	12-May-21	16-Dec-20	23-Dec-20	5,163					
S267100	Procure Production GL1 Components - Prepare & Send Solicitation	30	0%	11-May-21	22-Jun-21	22-May-20	06-Jul-20	0					
S112500	TPC Field Cage Safety Review	1	0%	12-May-21	12-May-21	15-Jul-20	15-Jul-20	1,277					
S112600	Procurement Readiness Review - TPC Field Cage	1	0%	12-May-21	12-May-21	15-Jul-20	15-Jul-20	1,277					
S175200	Fabricate final blocks sector 35	6	0%	13-May-21	20-May-21	24-Dec-20	04-Jan-21	5,163					
S112700	Procure TPC v2 Field Cage Modification Parts Labor	40	0%	13-May-21	09-Jul-21	16-Jul-20	10-Sep-20	3,652					
			Filtered by: TASK filters: No OBLG, Total Float less than 20 d.					Page 2 of 9					

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Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023
									FY21		FY22	FY23	
S112800	Procure TPC v2 Field Cage Modification Parts M&S	40	0%	13-May-21	09-Jul-21	16-Jul-20	10-Sep-20	6,828					
S348900	Assemble HCal cradle onto base - Labor - Physics Resource(s)	15	0%	17-May-21	07-Jun-21	16-Apr-21	13-May-21	13,711					
S348910	Assemble HCal cradle onto base - Labor - CA-D Resource(s)	15	0%	17-May-21	07-Jun-21	16-Apr-21	13-May-21	14,312					
S348915	Assemble HCal cradle onto base - M&S	15	0%	17-May-21	07-Jun-21	16-Apr-21	13-May-21	3,482					
S175300	Fabricate final blocks sector 36	6	0%	21-May-21	28-May-21	05-Jan-21	12-Jan-21	5,163					
S263600	Procure Trigger Preproduction Prototype LL1 - Delivery Acceptance	5	0%	25-May-21	01-Jun-21	01-Dec-20	07-Dec-20	69,641					
S269900	Timing System Production (FPGA Boards) - Vendor Responses	10	0%	25-May-21	08-Jun-21	25-Mar-20	07-Apr-20	0					
S290600	(LN2 supply transfer line system) Drawings approvals	5	0%	26-May-21	02-Jun-21	10-Feb-21	17-Feb-21	0					
S233000	Procure EMCal External LV/Bias Signal/Comm/Test Cables Sectors 13-64	0	0%	01-Jun-21		01-Oct-20		0					
S175400	Fabricate final blocks sector 37	6	0%	01-Jun-21	08-Jun-21	13-Jan-21	21-Jan-21	5,163					
S233250	Trunk Signal Cables - EMCal	100	0%	01-Jun-21	21-Oct-21	01-Dec-20	30-Jul-21	777,844					
S244450	Trunk Signal Cables - OuterHCal	100	0%	01-Jun-21	21-Oct-21	01-Dec-20	30-Jul-21	149,310					
S263700	Trigger LL1 Preproduction Prototype: Test trigger systems	15	0%	02-Jun-21	22-Jun-21	08-Dec-20	29-Dec-20	0					
S290700	(LN2 supply transfer line system) Raw Material procurement Labor	45	0%	03-Jun-21	05-Aug-21	18-Feb-21	21-Apr-21	0					
S290800	Procure LN2 supply transfer line system, Phase 4 (Raw Material) - Leac	45	0%	03-Jun-21	05-Aug-21	18-Feb-21	21-Apr-21	0					
S348920	Completed - Assemble HCal cradle onto base	0	0%		07-Jun-21		13-May-21	0					
S350600	Transport Assembled Outer HCal Sectors to AH (Partial Shipment) - Labor	1	0%	08-Jun-21	08-Jun-21	14-May-21	27-May-21	826					
S350700	Transport Assembled Outer HCal Sectors to AH (Partial Shipment) - M&S	1	0%	08-Jun-21	08-Jun-21	14-May-21	27-May-21	580					
S1002439	Transport Assembled Outer HCal Sectors to AH (Partial Shipment) - Labor	1	0%	08-Jun-21	08-Jun-21	14-May-21	27-May-21	50,178					
S175500	Fabricate final blocks sector 38	6	0%	09-Jun-21	16-Jun-21	22-Jan-21	29-Jan-21	5,163					
S270000	Timing System Production (FPGA Boards) - Vendor Selection	20	0%	09-Jun-21	07-Jul-21	08-Apr-20	05-May-20	0					
S350800	Install Partial Outer HCal (Prior to SC Magnet Install) - Labor - CA-D Resource(s)	58	0%	09-Jun-21	30-Aug-21	28-May-21	23-Aug-21	83,986					
S350900	Install Partial Outer HCal (Prior to SC Magnet Install) - M&S	58	0%	09-Jun-21	30-Aug-21	28-May-21	23-Aug-21	580					
S1002519	Install Partial Outer HCal (Prior to SC Magnet Install) - Labor - Physics	58	0%	09-Jun-21	30-Aug-21	28-May-21	23-Aug-21	152,827					
S175600	Fabricate final blocks sector 39	6	0%	17-Jun-21	24-Jun-21	01-Feb-21	08-Feb-21	5,163					
S263800	Final Design Review - DAQ Local Level-1	4	0%	23-Jun-21	28-Jun-21	30-Dec-20	05-Jan-21	5,673					
S267200	Procure Production GL1 Components - Vendor Responses	10	0%	23-Jun-21	07-Jul-21	07-Jul-20	20-Jul-20	0					
S175700	Fabricate final blocks sector 40	6	0%	25-Jun-21	02-Jul-21	09-Feb-21	17-Feb-21	5,163					
S263900	Trigger LL1 Preproduction complete	0	0%		28-Jun-21		05-Jan-21	0					
S264000	Trigger LL1 Production: Updates to trigger board: Production	17	0%	29-Jun-21	22-Jul-21	06-Jan-21	12-Jan-21	0					
S175800	Fabricate final blocks sector 41	6	0%	06-Jul-21	13-Jul-21	18-Feb-21	25-Feb-21	5,163					
S270100	Timing System Production (FPGA Boards) - Contract Award(s)	0	0%	08-Jul-21		06-May-20		0					
S267300	Procure Production GL1 Components - Vendor Selection	20	0%	08-Jul-21	04-Aug-21	21-Jul-20	17-Aug-20	0					
S270200	Timing System Production (FPGA Boards) - Contract/PO) - Leadtime	50	0%	08-Jul-21	16-Sep-21	06-May-20	16-Jul-20	0					
S112900	Modify TPC v2 Field Cage	10	0%	12-Jul-21	23-Jul-21	11-Sep-20	24-Sep-20	0					
S175900	Fabricate final blocks sector 42	6	0%	14-Jul-21	21-Jul-21	26-Feb-21	05-Mar-21	5,163					
S329460	Design Package for Detector Cooling System	30	0%	15-Jul-21	25-Aug-21	27-Jan-21	10-Mar-21	43,848					
S176000	Fabricate final blocks sector 43	6	0%	22-Jul-21	29-Jul-21	08-Mar-21	15-Mar-21	5,163					
S264100	Trigger LL1 Production: final updates to trigger crate requirements	10	0%	23-Jul-21	05-Aug-21	13-Jan-21	20-Jan-21	0					
S113000	Benchtest TPC Final Field Cage	10	0%	26-Jul-21	06-Aug-21	25-Sep-20	08-Oct-20	0					
S176100	Fabricate final blocks sector 44	6	0%	30-Jul-21	06-Aug-21	16-Mar-21	23-Mar-21	5,163					
S155100	Install TPC Cooling System pumps	3	0%	02-Aug-21	04-Aug-21	05-Jun-20	09-Jun-20	2,739					
S267400	Procure Production GL1 Components - Contract Award(s)	0	0%	05-Aug-21		18-Aug-20		0					
S155200	Install TPC Cooling System heat exchanger	3	0%	05-Aug-21	09-Aug-21	10-Jun-20	12-Jun-20	2,739					
S267500	Procure Production GL1 Components - Contract/PO - Leadtime	30	0%	05-Aug-21	16-Sep-21	18-Aug-20	29-Sep-20	0					
S290900	Procure LN2 supply transfer line system, Phase 4 (Raw Material) - Delivery	5	0%	06-Aug-21	12-Aug-21	22-Apr-21	28-Apr-21	0					
S264200	Production Readiness Review - DAQ Local Level-1	10	0%	06-Aug-21	19-Aug-21	21-Jan-21	22-Jan-21	5,673					
S318180	Perform Large Support Rings Acceptance	20	0%	06-Aug-21	02-Sep-21	09-Feb-21	09-Mar-21	14,616					
S121600	Production Readiness Review for TPC Final Assembly	1	0%	09-Aug-21	09-Aug-21	30-Apr-21	30-Apr-21	0					
S176200	Fabricate final blocks sector 45	6	0%	09-Aug-21	16-Aug-21	24-Mar-21	31-Mar-21	5,163					
S155300	Install TPC Cooling System PH control	3	0%	10-Aug-21	12-Aug-21	15-Jun-20	17-Jun-20	2,739					
S121610	Install TPC Modules into Field Cage	36	0%	10-Aug-21*	29-Sep-21	03-Jun-19	03-Dec-19	0					
				Filtered by: TASK filters: No OBLG, Total Float less than 20 d.					Page 3 of 9				

POM02 sPHENIX WBS 1.x, 2.x February 2021				Total Float < 20d					17-Mar-21 14:55				
Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023
									FY21		FY22		FY23
S290910	Completed - Procure LN2 supply transfer line system, Phase 4 (Raw Material) - Delivery Acceptance	0	0%		12-Aug-21		28-Apr-21	0					
S155400	Install TPC Cooling System end cap manifolds	10	0%	13-Aug-21	26-Aug-21	18-Jun-20	01-Jul-20	9,130					
S291000	(LN2 supply transfer line system) Main fabrication items	90	0%	13-Aug-21	23-Dec-21	29-Apr-21	03-Sep-21	0					
S176300	Fabricate final blocks sector 46	6	0%	17-Aug-21	24-Aug-21	01-Apr-21	08-Apr-21	5,163					
S264300	Procure Production LL1 System - Provide Requirements to Procurement	5	0%	20-Aug-21	26-Aug-21	25-Jan-21	29-Jan-21	0					
S176400	Fabricate final blocks sector 47	6	0%	25-Aug-21	01-Sep-21	09-Apr-21	16-Apr-21	5,163					
S329470	Conceptual Design for Power Distribution / Controls Cable Routing	17	0%	26-Aug-21	20-Sep-21	11-Mar-21	02-Apr-21	24,847					
S155500	Install TPC Cooling System tanks	3	0%	27-Aug-21	31-Aug-21	02-Jul-20	07-Jul-20	2,739					
S264400	Procure Production LL1 System - Prepare & Send Solicitation	30	0%	27-Aug-21	08-Oct-21	01-Feb-21	15-Mar-21	0					
S350910	Completed - Install Partial Outer HCal (Prior to SC Magnet Install)	0	0%		30-Aug-21		23-Aug-21	0					
S349100	Install magnet mounting feet - Labor - CA-D Resource(s)	10	0%	31-Aug-21	14-Sep-21	24-Aug-21	07-Sep-21	607					
S349200	Install magnet mounting feet - M&S	10	0%	31-Aug-21	14-Sep-21	24-Aug-21	07-Sep-21	3,482					
S1002239	Install magnet mounting feet - Labor - Physics Resource(s)	10	0%	31-Aug-21	14-Sep-21	24-Aug-21	07-Sep-21	21,265					
S155600	Install TPC Cooling System plumbing Labor	50	0%	01-Sep-21	12-Nov-21	08-Jul-20	07-Oct-20	27,453					
S274320	RHIC FY22 Run	81	0%	01-Sep-21*	30-Dec-21	01-Sep-21	30-Dec-21	0					
S176500	Fabricate final blocks sector 48	6	0%	02-Sep-21	10-Sep-21	19-Apr-21	26-Apr-21	5,163					
S318182	Assemble Large Support Rings	20	0%	03-Sep-21	01-Oct-21	10-Mar-21	06-Apr-21	20,683					
S176600	Fabricate final blocks sector 49	6	0%	13-Sep-21	20-Sep-21	27-Apr-21	04-May-21	5,163					
S353100	Transport SC Magnet from 912 to AH - Labor - Physics Resource(s)	2	0%	15-Sep-21	16-Sep-21	08-Sep-21	09-Sep-21	6,659					
S353200	Transport SC Magnet from 912 to AH - M&S	2	0%	15-Sep-21	16-Sep-21	08-Sep-21	09-Sep-21	1,741					
S353110	Transport SC Magnet from 912 to AH - Labor - CA-D Resource(s)	2	0%	15-Sep-21	16-Sep-21	08-Sep-21	09-Sep-21	13,099					
S353300	Install SC Magnet on Cradle - Labor - Physics Resource(s)	2	0%	17-Sep-21	20-Sep-21	10-Sep-21	13-Sep-21	6,423					
S353400	Install SC Magnet on Cradle - M&S	2	0%	17-Sep-21	20-Sep-21	10-Sep-21	13-Sep-21	1,741					
S353310	Install SC Magnet on Cradle - Labor - CA-D Resource(s)	2	0%	17-Sep-21	20-Sep-21	10-Sep-21	13-Sep-21	13,099					
S270300	Timing System Production (FPGA Boards) - Delivery Acceptance	5	0%	17-Sep-21	23-Sep-21	11-Jan-21	15-Jan-21	48,284					
S267600	Procure Production GL1 Components - final hardware - Delivery Acceptance	5	0%	17-Sep-21	23-Sep-21	31-Dec-20	07-Jan-21	32,673					
S353410	Completed - Install SC Magnet on Cradle	0	0%		20-Sep-21		13-Sep-21	0					
S176700	Fabricate final blocks sector 50	6	0%	21-Sep-21	28-Sep-21	05-May-21	12-May-21	5,163					
S353500	Align/Survey SC Magnet to Cradle - Labor - Physics Resource(s)	10	0%	21-Sep-21	04-Oct-21	14-Sep-21	27-Sep-21	9,404					
S353600	Align/Survey SC Magnet to Cradle - M&S	10	0%	21-Sep-21	04-Oct-21	14-Sep-21	27-Sep-21	4,062					
S353510	Align/Survey SC Magnet to Cradle - Labor - CA-D Resource(s)	10	0%	21-Sep-21	04-Oct-21	14-Sep-21	27-Sep-21	48,823					
S329478	Create Layout/Schematic Drawings & Design, Specification Control Document	40	0%	21-Sep-21	17-Nov-21	05-Apr-21	28-May-21	607					
S267900	GL1 Production: install GL1 system	25	0%	24-Sep-21	29-Oct-21	08-Jan-21	22-Mar-21	48,039					
S270600	Timing System Production: install timing system	30	0%	24-Sep-21	05-Nov-21	19-Jan-21	30-Mar-21	55,130					
S270610	Timing System Production: install timing system	30	0%	24-Sep-21	05-Nov-21	19-Jan-21	30-Mar-21	20,849					
S176800	Fabricate final blocks sector 51	6	0%	29-Sep-21	06-Oct-21	13-May-21	20-May-21	5,163					
S121700	Install TPC Electronics	10	0%	30-Sep-21	14-Oct-21	17-May-21	28-May-21	18,807					
S101016	FY22 funding available	0	0%	01-Oct-21*		01-Oct-21		0					
S103400	Mgmt labor - A - MIE - FY22	63	0%	01-Oct-21*	05-Jan-22	01-Oct-21	14-Oct-21	11,361					
S103510	Mgmt labor - B - BNL Contributed Labor - FY22 - CA-D Resource(s)	63	0%	01-Oct-21*	05-Jan-22	01-Oct-21	14-Oct-21	6,351					
S103500	Mgmt labor - B - BNL Contributed Labor - FY22 - Physics Resource(s)	63	0%	01-Oct-21*	05-Jan-22	01-Oct-21	14-Oct-21	65,205					
S274800	2022 Magnet Project Management	250	0%	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	160,676					
S275400	2022 Cryo L3 Project Management	250	0%	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	72,071					
S275900	2022 PS & Quench Protection L3 Project Management	250	0%	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	63,508					
S278200	2022 Integration & Installation Project Management	250	0%	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	158,770					
S277000	2022 Facility Support Systems L3 Project Management	250	0%	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	37,426					
S277600	2022 Detector Support Systems L3 Project Management	250	0%	01-Oct-21*	30-Sep-22	01-Oct-21	30-Sep-22	47,243					
S350950	Install Large Support Rings and Cross Braces	5	0%	05-Oct-21	12-Oct-21	28-Sep-21	04-Oct-21	10,898					
S176900	Fabricate final blocks sector 52	6	0%	07-Oct-21	15-Oct-21	21-May-21	28-May-21	5,163					
S264500	Procure Production LL1 System - Vendor Responses	5	0%	12-Oct-21	18-Oct-21	16-Mar-21	29-Mar-21	0					
S351000	Transport Remainder of Outer Hcal Sectors to AH - Labor - CA-D Resource(s)	10	0%	13-Oct-21	26-Oct-21	05-Oct-21	19-Oct-21	851					
S351100	Transport Remainder of Outer Hcal Sectors to AH - M&S	10	0%	13-Oct-21	26-Oct-21	05-Oct-21	19-Oct-21	592					
			Filtered by: TASK filters: No OBLG, Total Float less than 20 d.					Page 4 of 9					

POM02 sPHENIX WBS 1.x, 2.x February 2021				Total Float < 20d						17-Mar-21 14:55			
Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023
									FY21		FY22		FY23
S1002599	Transport Remainder of Outer Hcal Sectors to AH - Labor - Physics Res	10	0%	13-Oct-21	26-Oct-21	05-Oct-21	19-Oct-21	51,684					
S121800	Test TPC Prior to Installation	62	0%	15-Oct-21	18-Jan-22	16-Jul-21	18-Oct-21	0					
S177000	Fabricate final blocks sector 53	6	0%	18-Oct-21	25-Oct-21	01-Jun-21	08-Jun-21	5,163					
S264600	Procure Production LL1 System - Vendor Selection	5	0%	19-Oct-21	25-Oct-21	30-Mar-21	31-Mar-21	0					
S351200	Install Remainder of Outer HCal Sectors - Labor - CA-D Resource(s)	20	0%	20-Oct-21	17-Nov-21	13-Oct-21	09-Nov-21	69,879					
S351300	Install Remainder of Outer HCal Sectors - M&S	20	0%	20-Oct-21	17-Nov-21	13-Oct-21	09-Nov-21	592					
S1002679	Install Remainder of Outer HCal Sectors - Labor - Physics Resource(s)	20	0%	20-Oct-21	17-Nov-21	13-Oct-21	09-Nov-21	143,427					
S297800	(Cryo Controls Hardware procurement) Heaters 480VAC Labor	84	0%	20-Oct-21	23-Feb-22	14-Oct-20	17-Feb-21	1,824					
S297900	(Cryo Controls Hardware procurement) Heaters 480VAC M&S	84	0%	20-Oct-21	23-Feb-22	14-Oct-20	17-Feb-21	19,732					
S264700	Procure Production LL1 System - Contract Award(s)	0	0%	26-Oct-21		11-May-21		0					
S177100	Fabricate final blocks sector 54	6	0%	26-Oct-21	02-Nov-21	09-Jun-21	16-Jun-21	5,163					
S264800	Procure Production LL1 System - Contract/PO - Leadtime	30	0%	26-Oct-21	09-Dec-21	11-May-21	22-Jun-21	0					
S268000	GL1 Production: commission GL1 system	30	0%	01-Nov-21	15-Dec-21	23-Mar-21	01-Jun-21	26,836					
S268010	GL1 Production: commission GL1 system Instr	30	0%	01-Nov-21	15-Dec-21	23-Mar-21	01-Jun-21	14,073					
S177200	Fabricate final blocks sector 55	6	0%	03-Nov-21	10-Nov-21	17-Jun-21	24-Jun-21	5,163					
S270700	Timing System Production: commission timing system	25	0%	08-Nov-21	15-Dec-21	31-Mar-21	09-Jun-21	64,388					
S270710	Timing System Production: commission timing system	25	0%	08-Nov-21	15-Dec-21	31-Mar-21	09-Jun-21	25,019					
S177300	Fabricate final blocks sector 56	5	0%	12-Nov-21	18-Nov-21	25-Jun-21	02-Jul-21	5,163					
S155700	Procure TPC Plumbing - Contract/PO M&S	35	0%	15-Nov-21	06-Jan-22	08-Oct-20	01-Dec-20	13,542					
S351310	Completed - Install Remainder of Outer HCal Sectors	0	0%		17-Nov-21		09-Nov-21	0					
S351400	Align/Survey Outer Hcal to Centerline - Labor - Physics Resource(s)	5	0%	18-Nov-21	24-Nov-21	10-Nov-21	17-Nov-21	2,906					
S351500	Align/Survey Outer Hcal to Centerline - M&S	5	0%	18-Nov-21	24-Nov-21	10-Nov-21	17-Nov-21	592					
S351410	Align/Survey Outer Hcal to Centerline - Labor - CA-D Resource(s)	5	0%	18-Nov-21	24-Nov-21	10-Nov-21	17-Nov-21	17,879					
S329600	Review Detector Support Services Systems Design/Safety - CA-D Resc	12	0%	18-Nov-21	07-Dec-21	01-Jun-21	16-Jun-21	3,034					
S1002399	Review Detector Support Services Systems Design/Safety - Physics Re	12	0%	18-Nov-21	07-Dec-21	01-Jun-21	16-Jun-21	1,983					
S349300	Install platforms & access - Labor - Physics Resource(s)	20	0%	18-Nov-21	17-Dec-21	10-Nov-21	10-Dec-21	33,494					
S349400	Install platforms & access - M&S	20	0%	18-Nov-21	17-Dec-21	10-Nov-21	10-Dec-21	1,184					
S349310	Install platforms & access - Labor - CA-D Resource(s)	20	0%	18-Nov-21	17-Dec-21	10-Nov-21	10-Dec-21	47,298					
S177400	Fabricate final blocks sector 57	5	0%	19-Nov-21	29-Nov-21	06-Jul-21	13-Jul-21	5,163					
S355800	Install 1st Inner HCal Support Ring - Labor	2	0%	29-Nov-21	30-Nov-21	18-Nov-21	19-Nov-21	5,366					
S355900	Install 1st Inner HCal Support Ring - M&S	2	0%	29-Nov-21	30-Nov-21	18-Nov-21	19-Nov-21	592					
S177500	Fabricate final blocks sector 58	5	0%	30-Nov-21	06-Dec-21	14-Jul-21	21-Jul-21	5,163					
S356000	Install Inner HCal - Labor - CA-D Resource(s)	2	0%	01-Dec-21	02-Dec-21	22-Nov-21	23-Nov-21	17,251					
S356100	Install Inner HCal - M&S	2	0%	01-Dec-21	02-Dec-21	22-Nov-21	23-Nov-21	592					
S1003799	Install Inner HCal - Labor - Physics Resource(s)	2	0%	01-Dec-21	02-Dec-21	22-Nov-21	23-Nov-21	5,366					
S356200	Install 2nd Inner HCal Support Ring - Labor	2	0%	03-Dec-21	06-Dec-21	24-Nov-21	29-Nov-21	5,366					
S356300	Install 2nd Inner HCal Support Ring - M&S	2	0%	03-Dec-21	06-Dec-21	24-Nov-21	29-Nov-21	592					
S356310	Completed - Install 2nd Inner HCal Support Ring	0	0%		06-Dec-21		29-Nov-21	0					
S177600	Fabricate final blocks sector 59	5	0%	07-Dec-21	13-Dec-21	22-Jul-21	29-Jul-21	5,163					
S356400	Align/Survey Inner HCal to SC Magnet Centerline - Labor - Physics Res	5	0%	07-Dec-21	13-Dec-21	30-Nov-21	06-Dec-21	2,906					
S356500	Align/Survey Inner HCal to SC Magnet Centerline - M&S	5	0%	07-Dec-21	13-Dec-21	30-Nov-21	06-Dec-21	592					
S356410	Align/Survey Inner HCal to SC Magnet Centerline - Labor - CA-D Resou	5	0%	07-Dec-21	13-Dec-21	30-Nov-21	06-Dec-21	26,192					
S329700	Address Action Items from Detector Support Services Systems Design	12	0%	08-Dec-21	23-Dec-21	17-Jun-21	30-Jun-21	14,616					
S264900	Procure Production LL1 System - Delivery Acceptance	5	0%	10-Dec-21	16-Dec-21	23-Jun-21	29-Jun-21	135,800					
S177700	Fabricate final blocks sector 60	5	0%	14-Dec-21	20-Dec-21	30-Jul-21	06-Aug-21	5,163					
S270800	Timing System Production: additional firmware updates	25	0%	16-Dec-21	24-Jan-22	10-Jun-21	05-Aug-21	18,764					
S268100	GL1 Production: additional firmware improvements	25	0%	16-Dec-21	24-Jan-22	02-Jun-21	28-Jul-21	20,328					
S265000	Trigger LL1 Production: Program and commission trigger boards	15	0%	17-Dec-21	10-Jan-22	30-Jun-21	11-Aug-21	0					
S349410	Completed - Install platforms & access	0	0%		17-Dec-21		10-Dec-21	0					
S287400	(Helium System: 1008B Coldbox/Transfer lines / IR8 Coldbox) Installati	30	0%	20-Dec-21	02-Feb-22	13-Dec-21	26-Jan-22	8,910					
S177800	Fabricate final blocks sector 61	5	0%	21-Dec-21	28-Dec-21	09-Aug-21	16-Aug-21	5,163					
S329800	Design/Safety Reviews Complete, Detector Support Services Systems	0	0%		23-Dec-21		30-Jun-21	0					
			Filtered by: TASK filters: No OBLG, Total Float less than 20 d.						Page 5 of 9				

POM02 sPHENIX WBS 1.x, 2.x February 2021				Total Float < 20d					17-Mar-21 14:55				
Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023
									FY21		FY22		FY23
S329900	Prepare Detector Support Services Systems Components Procurement	20	0%	27-Dec-21	25-Jan-22	01-Jul-21	29-Jul-21	3,034					
S1002479	Prepare Detector Support Services Systems Components Procurement	20	0%	27-Dec-21	25-Jan-22	01-Jul-21	29-Jul-21	19,828					
S291100	(LN2 supply transfer line system) Final assemblies	30	0%	27-Dec-21	08-Feb-22	07-Sep-21	19-Oct-21	0					
S177900	Fabricate final blocks sector 62	5	0%	29-Dec-21	05-Jan-22	17-Aug-21	24-Aug-21	5,163					
S358200	Transport Assembled EMCal Sectors to AH - Labor - CA-D Resource(s)	25	0%	30-Dec-21	04-Feb-22	07-Dec-21	12-Jan-22	1,250					
S358300	Transport Assembled EMCal Sectors to AH - M&S	25	0%	30-Dec-21	04-Feb-22	07-Dec-21	12-Jan-22	592					
S1003839	Transport Assembled EMCal Sectors to AH - Labor - Physics Resource(	25	0%	30-Dec-21	04-Feb-22	07-Dec-21	12-Jan-22	23,671					
S358400	Install EMCal Sectors - Labor	16	0%	03-Jan-22	25-Jan-22	08-Dec-21	30-Dec-21	79,737					
S358500	Install EMCal Sectors - M&S	16	0%	03-Jan-22	25-Jan-22	08-Dec-21	30-Dec-21	592					
S178000	Fabricate final blocks sector 63	5	0%	06-Jan-22	12-Jan-22	25-Aug-21	01-Sep-21	5,163					
S155800	Set up TPC Cooling System computer controls Labor	5	0%	07-Jan-22	13-Jan-22	02-Dec-20	08-Dec-20	4,702					
S155900	Set up TPC Cooling System computer controls M&S	5	0%	07-Jan-22	13-Jan-22	02-Dec-20	08-Dec-20	12,179					
S265100	Trigger LL1 Production: Assemble trigger system	5	0%	11-Jan-22	18-Jan-22	12-Aug-21	25-Aug-21	0					
S178100	Fabricate final blocks sector 64	5	0%	13-Jan-22	20-Jan-22	02-Sep-21	10-Sep-21	5,163					
S156000	Set up and Test TPC Cooling System & Interlocks	5	0%	14-Jan-22	21-Jan-22	09-Dec-20	15-Dec-20	4,702					
S265200	Trigger LL1 Production: Commission trigger systems	5	0%	19-Jan-22	25-Jan-22	26-Aug-21	16-Sep-21	0					
S178200	EMCal Block fabrication is complete	0	0%		20-Jan-22		10-Sep-21	0					◆ EMCal Block fabrication is complete
S178900	Pack and ship final blocks for sectors 57-64 to BNL - Purchased Servic	1	0%	21-Jan-22	21-Jan-22	21-Sep-21	27-Sep-21	2,561					
S176010	Pack and ship final blocks for sectors 57-64 to BNL - M&S	1	0%	21-Jan-22	21-Jan-22	13-Sep-21	17-Sep-21	7,521					
S121900	TPC Ready to Install (Assembly Complete)	0	0%		21-Jan-22		20-Jan-22	0					◆ TPC Ready to Install (Assembly Complete)
S156100	TPC Cooling System Complete	0	0%		21-Jan-22		15-Dec-20	0					◆ TPC Cooling System Complete
S179000	EMCal final blocks arrive at BNL	0	0%		21-Jan-22		27-Sep-21	0					◆ EMCal final blocks arrive at BNL
S270900	Timing System Production: Timing system ready to operate	0	0%		24-Jan-22		05-Aug-21	0					◆ Timing System Production: Timing system ready to operate
S268200	GL1 Ready to Operate	0	0%		24-Jan-22		28-Jul-21	0					◆ GL1 Ready to Operate
S265300	LL1 Trigger Production Complete	0	0%		25-Jan-22		16-Sep-21	0					◆ LL1 Trigger Production Complete
S265400	LL1 Ready to Operate	0	0%		25-Jan-22		16-Sep-21	0					◆ LL1 Ready to Operate
S358510	Completed - Install EMCal Sectors	0	0%		25-Jan-22		30-Dec-21	0					◆ Completed - Install EMCal Sectors
S358600	Align/Survey EMCal to SC Magnet Centerline - Labor - Physics Resourc	7	0%	26-Jan-22	03-Feb-22	03-Jan-22	11-Jan-22	2,421					
S358700	Align/Survey EMCal to SC Magnet Centerline - M&S	7	0%	26-Jan-22	03-Feb-22	03-Jan-22	11-Jan-22	592					
S358610	Align/Survey EMCal to SC Magnet Centerline - Labor - CA-D Resource	7	0%	26-Jan-22	03-Feb-22	03-Jan-22	11-Jan-22	26,192					
S330000	Evaluate & Process Detector Support Services Systems Components B	20	0%	26-Jan-22	23-Feb-22	30-Jul-21	26-Aug-21	1,517					
S1002559	Evaluate & Process Detector Support Services Systems Components B	20	0%	26-Jan-22	23-Feb-22	30-Jul-21	26-Aug-21	3,966					
S287410	Completed - (Helium System: 1008B Coldbox/Transferlines / IR8 Coldb	0	0%		02-Feb-22		26-Jan-22	0					◆ Completed - (Helium System: 1008B Coldbox/Transferlines / IR8 Coldbox
S299900	(Cryo Controls Hardware) Cable termination	20	0%	03-Feb-22	03-Mar-22	27-Jan-22	24-Feb-22	19,372					
S358800	Install EMCal Cables and Services - Labor	26	0%	04-Feb-22	14-Mar-22	12-Jan-22	10-Mar-22	78,454					
S358900	Install EMCal Cables and Services - M&S	26	0%	04-Feb-22	14-Mar-22	12-Jan-22	10-Mar-22	592					
S197300	EMCal Ready to Install	0	0%		04-Feb-22		12-Jan-22	0					◆ EMCal Ready to Install
S196600	EMCal Modules Complete	0	0%		04-Feb-22		13-Oct-21	0					◆ EMCal Modules Complete
S197100	EMCal Sectors Complete	0	0%		04-Feb-22		22-Oct-21	0					◆ EMCal Sectors Complete
S358100	EMCal Sectors Ready for Installation	0	0%		04-Feb-22		12-Jan-22	0					◆ EMCal Sectors Ready for Installation
S101020	Internal Project Float	0	0%	07-Feb-22	07-Feb-22*	27-Jan-22	27-Jan-22	0					
S101022	Early Project Completion	0	0%		07-Feb-22		27-Jan-22	0					◆ Early Project Completion
S101030	WBS 1X Schedule Contingency	225	0%	07-Feb-22	29-Dec-22	27-Jan-22	29-Dec-22	0					
S291200	(LN2 supply transfer line system) BNL Holdpoint witness	1	0%	09-Feb-22	09-Feb-22	20-Oct-21	20-Oct-21	0					
S291210	Completed - (LN2 supply transfer line system) BNL Holdpoint witness	0	0%		09-Feb-22		20-Oct-21	0					◆ Completed - (LN2 supply transfer line system) BNL Holdpoint witness
S291400	Procure LN2 supply transfer line system - Phase 5 - Shipping - Leadtime	10	0%	10-Feb-22	24-Feb-22	21-Oct-21	03-Nov-21	0					
S291300	(LN2 supply transfer line system) Shipping Labor	13	0%	10-Feb-22	01-Mar-22	21-Oct-21	08-Nov-21	0					
S300200	(Cryo Controls Hardware) Heater 480VAC wiring	5	0%	24-Feb-22	02-Mar-22	27-Jan-22	02-Feb-22	63,690					
S330100	Procure & Deliver Detector Support Services Systems Components (lea	50	0%	24-Feb-22	04-May-22	27-Aug-21	08-Nov-21	308					
S330200	Procure & Deliver Detector Support Services Systems Components (lea	50	0%	24-Feb-22	04-May-22	27-Aug-21	08-Nov-21	37,528					
S1002639	Procure & Deliver Detector Support Services Systems Components (lea	50	0%	24-Feb-22	04-May-22	27-Aug-21	08-Nov-21	10,069					
S291500	Procure LN2 supply transfer line system - Phase 5 - Shipping - Delivery	0	0%	02-Mar-22*	02-Mar-22	16-Jul-21	16-Jul-21	119,662					
			Filtered by: TASK filters: No OBLG, Total Float less than 20 d.					Page 6 of 9					

POM02 sPHENIX WBS 1.x, 2.x February 2021				Total Float < 20d					17-Mar-21 14:55				
Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023
									FY21		FY22		FY23
S291510	Completed - Procure LN2 supply transfer line system - Phase 5 - Shippi	0	0%		02-Mar-22		16-Jul-21	0			◆ Completed - Procure LN2 supply transfer line system - Phase 5 - Sh		
S291600	(LN2 supply transfer line system) Rigging/Truck Unloading	1	0%	02-Mar-22	02-Mar-22	16-Jul-21	16-Jul-21	2,713					
S291700	(LN2 supply transfer line system) Inspection	1	0%	03-Mar-22	03-Mar-22	19-Jul-21	19-Jul-21	199					
S300400	(Cryo Controls Hardware) Heater I/O wiring, temp sensors	5	0%	03-Mar-22	09-Mar-22	25-Feb-22	03-Mar-22	1,937					
S292100	(LN2 supply transfer line system) Rigging in place onto piping supports	10	0%	04-Mar-22	17-Mar-22	20-Jul-21	02-Aug-21	32,357					
S300500	(Cryo Controls Hardware) Wire up instruments and control valves	15	0%	04-Mar-22	24-Mar-22	25-Feb-22	17-Mar-22	11,623					
S349500	Install Pole Tips - Labor - Physics Resource(s)	10	0%	15-Mar-22	28-Mar-22	11-Mar-22	24-Mar-22	9,967					
S349600	Install Pole Tips - M&S	10	0%	15-Mar-22	28-Mar-22	11-Mar-22	24-Mar-22	3,552					
S349510	Install Pole Tips - Labor - CA-D Resource(s)	10	0%	15-Mar-22	28-Mar-22	11-Mar-22	24-Mar-22	48,254					
S292110	Completed - (LN2 supply transfer line system) Rigging in place onto pip	0	0%		17-Mar-22		02-Aug-21	0			◆ Completed - (LN2 supply transfer line system) Rigging in place on		
EXT101400	[External Activity] MVTX Complete and ready for installation	0	0%		17-Mar-22*		17-Mar-22	0			◆ [External Activity] MVTX Complete and ready for installation		
S292120	Welding LN2 Segment #1 to LN2 Dewar	10	0%	18-Mar-22	31-Mar-22	03-Aug-21	16-Aug-21	10,306					
S292200	(LN2 supply transfer line system) Install Instrumentation, reliefs and air	15	0%	18-Mar-22	07-Apr-22	03-Aug-21	23-Aug-21	14,412					
S300000	(Cryo Controls Hardware) Check out continuity	10	0%	25-Mar-22	07-Apr-22	18-Mar-22	31-Mar-22	4,843					
S349610	Completed - Install Pole Tips	0	0%		28-Mar-22		24-Mar-22	0			◆ Completed - Install Pole Tips		
S370000	Move Full sPHENIX to IR - Labor - CA-D Resource(s)	5	0%	29-Mar-22	04-Apr-22	25-Mar-22	31-Mar-22	7,642					
S287500	RHIC Helium Interface - Final Bayonet jumpers lines install, pressure &	10	0%	05-Apr-22	18-Apr-22	01-Apr-22	14-Apr-22	41,645					
S294880	(Warm Piping System) IR Hall work Jumper work between Platform anc	15	0%	05-Apr-22	25-Apr-22	01-Apr-22	21-Apr-22	15,966					
S300600	(Cryo Controls Hardware) Hardware Installed	0	0%		07-Apr-22		31-Mar-22	0			◆ (Cryo Controls Hardware) Hardware Installed		
S301100	(Cryo Controls Hardware) Live I/O check out and control logic test	10	0%	08-Apr-22	21-Apr-22	01-Apr-22	14-Apr-22	34,384					
S292300	(LN2 supply transfer line system) Final pressure. leak check and equiprr	10	0%	08-Apr-22	21-Apr-22	24-Aug-21	07-Sep-21	10,129					
S295000	(Warm Piping System) Pressure and leak check	5	0%	19-Apr-22	25-Apr-22	15-Apr-22	21-Apr-22	8,169					
S287600	RHIC Helium Interface - Final pump and purge	10	0%	19-Apr-22	02-May-22	15-Apr-22	28-Apr-22	18,569					
S292310	Completed - (LN2 supply transfer line system) Final pressure. leak chec	0	0%		21-Apr-22		07-Sep-21	0			◆ Completed - (LN2 supply transfer line system) Final pressure		
S294910	Completed - (Warm Piping System) Phase 2: Welding of piping, vent lii	0	0%		25-Apr-22		21-Apr-22	0			◆ Completed - (Warm Piping System) Phase 2: Welding of p		
S295200	(Warm Piping System) Final pressure. leak check and equipment shake	5	0%	26-Apr-22	02-May-22	22-Apr-22	28-Apr-22	8,169					
S287700	RHIC Helium Interface - Installation complete	0	0%		02-May-22		28-Apr-22	0			◆ RHIC Helium Interface - Installation complete		
S278800	LESHC-PSSC Review Cryogenic Safety Review	1	0%	03-May-22	03-May-22	29-Apr-22	29-Apr-22	7,447					
S278900	LESHC Review Magnet Overall System Safety Review	1	0%	03-May-22	03-May-22	29-Apr-22	29-Apr-22	7,447					
S279000	ASSRC REVIEW and Full Walkthrough	1	0%	04-May-22	04-May-22	02-May-22	02-May-22	6,197					
S330300	Perform Detector Support Services Systems Components Acceptance -	5	0%	05-May-22	11-May-22	09-Nov-21	16-Nov-21	625					
S1002719	Perform Detector Support Services Systems Components Acceptance -	5	0%	05-May-22	11-May-22	09-Nov-21	16-Nov-21	3,443					
S279100	Cooldown	15	0%	05-May-22	25-May-22	03-May-22	23-May-22	27,602					
S370500	Prepare for Review of Safety System Design by CAD ESRC	20	0%	09-May-22	06-Jun-22	03-May-22	31-May-22	28,540					
S330350	Procure Fiber Optics Trunk Cables and Accessories - Labor - CA-D Resu	60	0%	12-May-22	05-Aug-22	17-Nov-21	15-Feb-22	625					
S330355	Procure Fiber Optics Trunk Cables and Accessories - M&S	60	0%	12-May-22	05-Aug-22	17-Nov-21	15-Feb-22	26,046					
S1002759	Procure Fiber Optics Trunk Cables and Accessories - Labor - Physics R	60	0%	12-May-22	05-Aug-22	17-Nov-21	15-Feb-22	25,344					
EXT327600	[External Activity] INTT Assembly Complete and Ready for Installation	0	0%		25-May-22*		25-May-22	0			◆ [External Activity] INTT Assembly Complete and Ready		
S279200	4.5K Static Heat Load test	2	0%	26-May-22	27-May-22	24-May-22	25-May-22	3,680					
S279300	4.5K Low power test	5	0%	31-May-22	06-Jun-22	26-May-22	02-Jun-22	43,357					
S370510	Review of Safety System Design by CAD ESRC	3	0%	07-Jun-22	09-Jun-22	01-Jun-22	03-Jun-22	12,125					
S279400	4.5K High Power Test	5	0%	07-Jun-22	13-Jun-22	03-Jun-22	09-Jun-22	43,357					
S370520	Prepare Procedures (Blue Sheet, Pink Sheet)	20	0%	10-Jun-22	08-Jul-22	06-Jun-22	01-Jul-22	41,494					
S279500	Magnet is operational	0	0%		13-Jun-22		09-Jun-22	0			◆ Magnet is operational		
S309000	Magnet Field Measurements: Map Magnetic Field of SC Magnet	15	0%	14-Jun-22	05-Jul-22	10-Jun-22	30-Jun-22	74,746					
S309005	Magnet Field Measurements: Map Magnetic Field of SC Magnet	15	0%	14-Jun-22	05-Jul-22	10-Jun-22	30-Jun-22	74,746					
S360400	Transport Assembled TPC Sections to AH - Labor - Physics Resource(s)	5	0%	30-Jun-22	07-Jul-22	28-Jun-22	05-Jul-22	5,124					
S360500	Transport Assembled TPC Sections to AH - M&S	5	0%	30-Jun-22	07-Jul-22	28-Jun-22	05-Jul-22	592					
S360410	Transport Assembled TPC Sections to AH - Labor - CA-D Resource(s)	5	0%	30-Jun-22	07-Jul-22	28-Jun-22	05-Jul-22	1,250					
S309010	Completed - Magnet Field Measurements: Map Magnetic Field of SC M	0	0%		05-Jul-22		30-Jun-22	0			◆ Completed - Magnet Field Measurements: Ma		
S309100	Magnet Field Measurements: Remove Field Mapping Equipment	2	0%	06-Jul-22	07-Jul-22	01-Jul-22	05-Jul-22	14,529					
S360600	Open SC Magnet Pole Tip Doors	1	0%	08-Jul-22	08-Jul-22	06-Jul-22	06-Jul-22	2,562					
			Filtered by: TASK filters: No OBLG, Total Float less than 20 d.						Page 7 of 9				

POM02 sPHENIX WBS 1.x, 2.x February 2021				Total Float < 20d					17-Mar-21 14:55					
Activity ID	Activity Name	At Completion Duration	Activity % Complete	Start	Finish	BL Project Start	BL Project Finish	BL Project Total Cost	2021		2022		2023	
									FY21		FY22		FY23	
S370530	Review and approve procedures	2	0%	11-Jul-22	12-Jul-22	05-Jul-22	06-Jul-22	17,579						
S360700	Install TPC Support - Labor	5	0%	11-Jul-22	15-Jul-22	07-Jul-22	13-Jul-22	12,248						
S360800	Install TPC Support - M&S	5	0%	11-Jul-22	15-Jul-22	07-Jul-22	13-Jul-22	592						
S370540	Magnet Checkout After Power Testing	5	0%	13-Jul-22	19-Jul-22	07-Jul-22	13-Jul-22	9,084						
S360900	Install TPC (Mechanical) - Labor - CA-D Resource(s)	5	0%	18-Jul-22	22-Jul-22	14-Jul-22	20-Jul-22	851						
S361000	Install TPC (Mechanical) - M&S	5	0%	18-Jul-22	22-Jul-22	14-Jul-22	20-Jul-22	592						
S1003879	Install TPC (Mechanical) - Labor - Physics Resource(s)	5	0%	18-Jul-22	22-Jul-22	14-Jul-22	20-Jul-22	14,603						
S370550	Preparation for Full Operation - In-Rack Safety System Check	5	0%	20-Jul-22	26-Jul-22	14-Jul-22	20-Jul-22	11,898						
S361010	Completed - Install TPC	0	0%		22-Jul-22		20-Jul-22	0					◆ Completed - Install TPC	
S361100	Align/Survey TPC to SC Magnet Centerline - Labor - Physics Resource(s)	5	0%	25-Jul-22	29-Jul-22	21-Jul-22	27-Jul-22	2,421						
S361200	Align/Survey TPC to SC Magnet Centerline - M&S	5	0%	25-Jul-22	29-Jul-22	21-Jul-22	27-Jul-22	592						
S361110	Align/Survey TPC to SC Magnet Centerline - Labor - CA-D Resource(s)	5	0%	25-Jul-22	29-Jul-22	21-Jul-22	27-Jul-22	26,192						
S370560	Preparation for Full Operation - Magnet Re-check Cryo/PSU/QD/ODH (	10	0%	27-Jul-22	09-Aug-22	21-Jul-22	03-Aug-22	9,084						
S346300	Install Beampipe/Vacuum/Bakeout - Labor - Physics Resource(s)	7	0%	01-Aug-22	09-Aug-22	28-Jul-22	05-Aug-22	9,905						
S346400	Install Beampipe/Vacuum/Bakeout - M&S	7	0%	01-Aug-22	09-Aug-22	28-Jul-22	05-Aug-22	592						
S346310	Install Beampipe/Vacuum/Bakeout - Labor - CA-D Resource(s)	7	0%	01-Aug-22	09-Aug-22	28-Jul-22	05-Aug-22	27,347						
S330400	Detector Support Services Systems Components Ready for Installation	0	0%		05-Aug-22		15-Feb-22	0					◆ Detector Support Services Systems Components Ready for Installation	
S346900	Install Detector Support Services Systems - Labor - CA-D Resource(s)	20	0%	08-Aug-22	02-Sep-22	16-Feb-22	11-May-22	4,253						
S347000	Install Detector Support Services Systems - M&S	20	0%	08-Aug-22	02-Sep-22	16-Feb-22	11-May-22	592						
S1002159	Install Detector Support Services Systems - Labor - Physics Resource(s)	20	0%	08-Aug-22	02-Sep-22	16-Feb-22	11-May-22	91,339						
S346410	Completed - Install Beampipe	0	0%		09-Aug-22		05-Aug-22	0					◆ Completed - Install Beampipe	
S368500	Transport Assembled Min Bias Sections to AH - Labor	1	0%	10-Aug-22	10-Aug-22	08-Aug-22	08-Aug-22	2,218						
S368600	Transport Assembled Min Bias Sections to AH - M&S	1	0%	10-Aug-22	10-Aug-22	08-Aug-22	08-Aug-22	592						
S362800	Transport Assembled INTT Sections to AH - Labor	2	0%	10-Aug-22	11-Aug-22	08-Aug-22	09-Aug-22	5,124						
S362900	Transport Assembled INTT Sections to AH - M&S	2	0%	10-Aug-22	11-Aug-22	08-Aug-22	09-Aug-22	592						
S370570	Preparation for Full Operation - Verify Global Safety System	5	0%	10-Aug-22	16-Aug-22	04-Aug-22	10-Aug-22	12,369						
S361300	Install TPC Cables and Services - Labor	15	0%	10-Aug-22	30-Aug-22	08-Aug-22	26-Aug-22	60,293						
S361400	Install TPC Cables and Services - M&S	15	0%	10-Aug-22	30-Aug-22	08-Aug-22	26-Aug-22	592						
S368700	Install Min Bias Support - Labor	8	0%	11-Aug-22	22-Aug-22	09-Aug-22	18-Aug-22	4,156						
S368800	Install Min Bias Support - M&S	8	0%	11-Aug-22	22-Aug-22	09-Aug-22	18-Aug-22	592						
S363000	Install INTT Support - Labor	2	0%	12-Aug-22	15-Aug-22	10-Aug-22	11-Aug-22	9,483						
S363100	Install INTT Support - M&S	2	0%	12-Aug-22	15-Aug-22	10-Aug-22	11-Aug-22	592						
S365500	Install MVTX Support - Labor	3	0%	12-Aug-22	16-Aug-22	10-Aug-22	12-Aug-22	9,483						
S365600	Install MVTX Support - M&S	3	0%	12-Aug-22	16-Aug-22	10-Aug-22	12-Aug-22	592						
S363200	Install INTT (mechanical) - Labor	3	0%	16-Aug-22	18-Aug-22	12-Aug-22	16-Aug-22	9,483						
S363300	Install INTT (mechanical) - M&S	3	0%	16-Aug-22	18-Aug-22	12-Aug-22	16-Aug-22	592						
S365700	Install FELIX	2	0%	17-Aug-22	18-Aug-22	15-Aug-22	16-Aug-22	2,147						
S365900	Install Optical fibers	2	0%	17-Aug-22	18-Aug-22	15-Aug-22	16-Aug-22	4,843						
S366000	Install RU	2	0%	17-Aug-22	18-Aug-22	15-Aug-22	16-Aug-22	5,369						
S366200	Install Samtec Cables	2	0%	17-Aug-22	18-Aug-22	15-Aug-22	16-Aug-22	4,843						
S365800	Install FELIX	2	0%	17-Aug-22	18-Aug-22	15-Aug-22	16-Aug-22	0						
S366100	Install RU	2	0%	17-Aug-22	18-Aug-22	15-Aug-22	16-Aug-22	0						
S370580	Preparation for Full Operation - Final Safety Walk Trough	5	0%	17-Aug-22	23-Aug-22	11-Aug-22	17-Aug-22	20,889						
S363400	Align/Survey INTT to SC Magnet Centerline - Labor - Physics Resource(s)	5	0%	19-Aug-22	25-Aug-22	17-Aug-22	23-Aug-22	2,421						
S363500	Align/Survey INTT to SC Magnet Centerline - M&S	5	0%	19-Aug-22	25-Aug-22	17-Aug-22	23-Aug-22	592						
S363410	Align/Survey INTT to SC Magnet Centerline - Labor - CA-D Resource(s)	5	0%	19-Aug-22	25-Aug-22	17-Aug-22	23-Aug-22	17,879						
S366300	Install Half-Barrel 1	6	0%	19-Aug-22	26-Aug-22	17-Aug-22	24-Aug-22	20,423						
S366400	Install Half-Barrel 1	6	0%	19-Aug-22	26-Aug-22	17-Aug-22	23-Aug-22	0						
S368900	Install Min Bias (mechanical) - Labor	5	0%	23-Aug-22	29-Aug-22	19-Aug-22	25-Aug-22	4,156						
S369000	Install Min Bias (mechanical) - M&S	5	0%	23-Aug-22	29-Aug-22	19-Aug-22	25-Aug-22	592						
S370590	Preparation for Full Operation - Approvals - CAD and Physics	5	0%	24-Aug-22	30-Aug-22	18-Aug-22	24-Aug-22	3,495						
S363600	Install INTT Cables and Services - Labor	5	0%	26-Aug-22	01-Sep-22	24-Aug-22	30-Aug-22	71,307						
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