

EIC - Working File

Data Date: 02-Jan-2020

EIC - Critical Path (w)

TASK filter: Critical.

EIC_SubSystem Code		Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	19	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	18
									FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	FY36	FY37	Y38
PM	L2_0060	Project Start (4/1/20)	0		01-Apr-2020*	0		Project Start (4/1/20)																			
SC_MAG	RD_0303_0999	SVT Pred: Pre-conceptual IR and Magnet Design FY21 - Pre CD1	127	02-Apr-2020	30-Sep-2020	0		SVT Pred: Pre-conceptual IR and Magnet Design FY21 - Pre CD1																			
SC_MAG	30094_M_FY21_1	6.02.03.03.01 - 30094 - FY21 Nonlabor Actuals_Q1 & Q2	122	01-Oct-2020	31-Mar-2021	0		6.02.03.03.01 - 30094 - FY21 Nonlabor Actuals_Q1 & Q2																			
SC_MAG	30094_L_FY21_2	6.02.03.03.01 - 30094 - FY21 Labor Actuals_Q3 & Q4	128	01-Apr-2021	30-Sep-2021	0		6.02.03.03.01 - 30094 - FY21 Labor Actuals_Q3 & Q4																			
SC_MAG	30094_M_FY21_2	6.02.03.03.01 - 30094 - FY21 Nonlabor Actuals_Q3 & Q4	128	01-Apr-2021	30-Sep-2021	0		6.02.03.03.01 - 30094 - FY21 Nonlabor Actuals_Q3 & Q4																			
SC_MAG	30094_L_FY22	6.02.03.03.01 - 30094 - FY22 Labor Actuals	250	01-Oct-2021	30-Sep-2022	0		6.02.03.03.01 - 30094 - FY22 Labor Actuals																			
SC_MAG	30094_M_FY22	6.02.03.03.01 - 30094 - FY22 Nonlabor Actuals	250	01-Oct-2021	30-Sep-2022	0		6.02.03.03.01 - 30094 - FY22 Nonlabor Actuals																			
SC_MAG	RD_0303_2000	2D Cross-section - EM Final - Q1A	7	03-Oct-2022	12-Oct-2022	0		2D Cross-section - EM Final - Q1A																			
SC_MAG	RD_0303_2010	2D Cross-section - EM Final - Q1B	7	03-Oct-2022	12-Oct-2022	0		2D Cross-section - EM Final - Q1B																			
SC_MAG	RD_0303_2020	2D Cross-section - EM Final - Q2pF	7	03-Oct-2022	12-Oct-2022	0		2D Cross-section - EM Final - Q2pF																			
SC_MAG	RD_0303_2040	2D Cross-section - EM Final - B1ApF	7	03-Oct-2022	12-Oct-2022	0		2D Cross-section - EM Final - B1ApF																			
SC_MAG	RD_0303_2130	3D Design - Coil Ends (Final) - Q1ApF - Phase 1	157	13-Oct-2022	31-May-2023	0		3D Design - Coil Ends (Final) - Q1ApF - Phase 1																			
SC_MAG	RD_0303_2140	3D Design - Coil Ends (Final) - B1ApF - Phase 1	157	13-Oct-2022	31-May-2023	0		3D Design - Coil Ends (Final) - B1ApF - Phase 1																			
SC_MAG	RD_0303_2150	3D Design - Coil Ends (Final) - Q2pF - Phase 1	157	13-Oct-2022	31-May-2023	0		3D Design - Coil Ends (Final) - Q2pF - Phase 1																			
SC_MAG	RD_0303_2160	3D Design - Coil Ends (Final) - Q1BpF - Phase 1	157	13-Oct-2022	31-May-2023	0		3D Design - Coil Ends (Final) - Q1BpF - Phase 1																			
SC_MAG	RD_0303_2170	3D Design - Coil Ends (Final) - Phase 1 Complete	0		31-May-2023	0		3D Design - Coil Ends (Final) - Phase 1 Complete																			
SC_MAG	RD_0303_3220	Coil Assembly Design/Engineering - Model File Manipulation & Refine (Add Spacers, etc.)	41	01-Jun-2023	31-Jul-2023	0		Coil Assembly Design/Engineering - Model File Manipulation & Refine (Add Spacers, etc.)																			
SC_MAG	RD_0303_3230	Coil Assembly Design/Engineering - Finalize Coil Parts Models	20	03-Jul-2023	31-Jul-2023	0		Coil Assembly Design/Engineering - Finalize Coil Parts Models																			
SC_MAG	RD_0303_3240	Coil Assembly Design/Engineering - Assembly & Parts Drawings	15	11-Jul-2023	31-Jul-2023	0		Coil Assembly Design/Engineering - Assembly & Parts Drawings																			
SC_MAG	RD_0303_3230A	Coil Assembly Design/Engineering - Finalize Coil Parts Models	10	01-Aug-2023	14-Aug-2023	0		Coil Assembly Design/Engineering - Finalize Coil Parts Models																			
SC_MAG	RD_0303_3240A	Coil Assembly Design/Engineering - Assembly & Parts Drawings	8	01-Aug-2023	10-Aug-2023	0		Coil Assembly Design/Engineering - Assembly & Parts Drawings																			
SC_MAG	RD_0303_3250	Coil Assembly Design - Checking	18	11-Aug-2023	06-Sep-2023	0		Coil Assembly Design - Checking																			
SC_MAG	RD_0303_3805	B1pF Prototype Material - Coil Parts - Prepare Specs and SOW	10	23-Aug-2023	06-Sep-2023	0		B1pF Prototype Material - Coil Parts - Prepare Specs and SOW																			
SC_MAG	RD_0303_3810	B1pF Prototype Material - Coil Parts - Pin Requisition	0		06-Sep-2023	0		B1pF Prototype Material - Coil Parts - Pin Requisition																			
SC_MAG	RD_0303_3820	B1pF Prototype Material - Coil Parts - Procurement Effort	112	07-Sep-2023	21-Feb-2024	0		B1pF Prototype Material - Coil Parts - Procurement Effort																			
SC_MAG	RD_0303_3830	B1pF Prototype Material - Coil Parts - Award Contract	1	22-Feb-2024	22-Feb-2024	0		B1pF Prototype Material - Coil Parts - Award Contract																			
SC_MAG	RD_0303_3840	B1pF Prototype Material - Coil Parts - Vendor Manufacturing/ Fabrication	100	23-Feb-2024	16-Jul-2024	0		B1pF Prototype Material - Coil Parts - Vendor Manufacturing/ Fabrication																			
SC_MAG	RD_0303_3850	B1pF Prototype Material - Coil Parts - Delivery	0		16-Jul-2024	0		B1pF Prototype Material - Coil Parts - Delivery																			
SC_MAG	RD_0303_5180	Subassemblies - Coil Parts (4)	32	17-Jul-2024	29-Aug-2024	0		Subassemblies - Coil Parts (4)																			
SC_MAG	RD_0303_5200	Coil #1 (Wind / Cure / Measure / Test)	20	30-Aug-2024	27-Sep-2024	0		Coil #1 (Wind / Cure / Measure / Test)																			
SC_MAG	RD_0303_5210	Coil #2 (Wind / Cure / Measure / Test)	20	16-Sep-2024	11-Oct-2024	0		Coil #2 (Wind / Cure / Measure / Test)																			
SC_MAG	RD_0303_5220	Cold Mass Assembly - Assemble Coils into Collars	20	15-Oct-2024	12-Nov-2024	0		Cold Mass Assembly - Assemble Coils into Collars																			
SC_MAG	RD_0303_5230	Cold Mass Assembly - Collar Coils	20	13-Nov-2024	12-Dec-2024	0		Cold Mass Assembly - Collar Coils																			
SC_MAG	RD_0303_5250	Cold Mass Assembly - Warm Measure	10	13-Dec-2024	27-Dec-2024	0		Cold Mass Assembly - Warm Measure																			
SC_MAG	RD_0303_5260	Cold Mass Assembly - Install Coils Into Yoke	10	30-Dec-2024	13-Jan-2025	0		Cold Mass Assembly - Install Coils Into Yoke																			
SC_MAG	RD_0303_5270	Cold Mass Assembly - Install Shells	15	14-Jan-2025	04-Feb-2025	0		Cold Mass Assembly - Install Shells																			
SC_MAG	RD_0303_5280	Cold Mass Assembly - Warm Measure	5	05-Feb-2025	11-Feb-2025	0		Cold Mass Assembly - Warm Measure																			
SC_MAG	RD_0303_5290	Cold Mass Assembly - Install End Plates / Apply Axial Load	10	12-Feb-2025	26-Feb-2025	0		Cold Mass Assembly - Install End Plates / Apply Axial Load																			
SC_MAG	RD_0303_5300	Cold Mass Assembly - Splice Existing Leads, Perform Electrical Tests	5	27-Feb-2025	05-Mar-2025	0		Cold Mass Assembly - Splice Existing Leads, Perform Electrical Tests																			
SC_MAG	RD_0303_5310	Prototype Testing - Wiring Stand Install and Test	10	06-Mar-2025	19-Mar-2025	0		Prototype Testing - Wiring Stand Install and Test																			
SC_MAG	RD_0303_5320	Prototype Testing - Instal in Dewar /Start Cryo	5	20-Mar-2025	26-Mar-2025	0		Prototype Testing - Instal in Dewar /Start Cryo																			
SC_MAG	RD_0303_5330	Prototype Testing - 300K Elct Test & Integ. Field Measurement	2	27-Mar-2025	28-Mar-2025	0		Prototype Testing - 300K Elct Test & Integ. Field Measurement																			
SC_MAG	RD_0303_5340	Prototype Testing - Cool Down to 4.5K	2	31-Mar-2025	01-Apr-2025	0		Prototype Testing - Cool Down to 4.5K																			
SC_MAG	RD_0303_5350	Prototype Testing - 4.5K Elct, Heater, Quench, DC Loop, Harmonics	20	02-Apr-2025	29-Apr-2025	0		Prototype Testing - 4.5K Elct, Heater, Quench, DC Loop, Harmonics																			
SC_MAG	RD_0303_5360	Prototype Testing - Warmup	4	30-Apr-2025	05-May-2025	0		Prototype Testing - Warmup																			
SC_MAG	RD_0303_5370	Prototype Testing - Remove From Dewar, Test Fixture	7	06-May-2025	14-May-2025	0		Prototype Testing - Remove From Dewar, Test Fixture																			
SC_MAG	RD_0303_5380	B1pF Complete	0		14-May-2025	0		B1pF Complete																			
SC_MAG	RD_0303_5400	B1pF Prototype - Disassembly & Rework	78	15-May-2025	05-Sep-2025	0		B1pF Prototype - Disassembly & Rework																			
SC_MAG	RD_0303_5410	B1pF Prototype - Retest	20	08-Sep-2025	03-Oct-2025	0		B1pF Prototype - Retest																			
SC_MAG	IR_0212_1170	B1pF Production - Coil Assembly	75	06-Oct-2025	27-Jan-2026	0		B1pF Production - Coil Assembly																			
SC_MAG	IR_0212_3150	Q2pF Production - Test Coil Wind & Cure	155	28-Jan-2026	08-Sep-2026	0		Q2pF Production - Test Coil Wind & Cure																			
SC_MAG	IR_0212_3160	Q2pF Production - Coil Assembly	135	09-Sep-2026	26-Mar-2027	0		Q2pF Production - Coil Assembly																			
SC_MAG	IR_0212_5150	Q1BpF Production - Test Coil Wind & Cure	70	29-Mar-2027	07-Jul-2027	0		Q1BpF Production - Test Coil Wind & Cure																			
SC_MAG	IR_0212_5160	Q1BpF Production - Coil Assembly	75	08-Jul-2027	22-Oct-2027	0		Q1BpF Production - Coil Assembly																			
SC_MAG	IR_0212_5260	Q1BpF Production - Collar Assembly	50	25-Oct-2027	07-Jan-2028	0		Q1BpF Production - Collar Assembly																			
SC_MAG	IR_0212_5360	Q1BpF Production - Yoke / End Plate / Splice Assembly	70	10-Jan-2028	18-Apr-2028	0		Q1BpF Production - Yoke / End Plate / Splice Assembly																			
SC_MAG	IR_0214_2160	Q1BpF Production - Vertical Cold Test	50	19-Apr-2028	29-Jun-2028	0		Q1BpF Production - Vertical Cold Test																			
SC_MAG	IR_0214_1870	Q2pF Production - Horizontal Cold Test	60	30-Jun-2028	25-Sep-2028	0		Q2pF Production - Horizontal Cold Test																			
SC_MAG	IR_0214_1875	SVT - Cryo Plant Maintenance	10	26-Sep-2028	10-Oct-2028	0		SVT - Cryo Plant Maintenance																			
SC_MAG	IR_0214_1120	B0ApF - Horizontal Cold Test	50	11-Oct-2028	22-Dec-2028	0		B0ApF - Horizontal Cold Test																			

ELC - Working File

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EIC_SubSystem Code	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	19	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
								FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	FY36	FY37	FY38
SC_MAG	IR_0214_2030	Q1ApF Production - Horizontal Cold Test	60	26-Dec-2028	22-Mar-2029	0																				
SC_MAG	IR_0214_2035	SVT - Cryo Plant Maintenance	10	23-Mar-2029	05-Apr-2029	0																				
SC_MAG	IR_0214_1260	Q1ApR - Q1eR - Q1ApR Corrector - Horizontal Cold Test	50	06-Apr-2029	15-Jun-2029	0																				
SC_MAG	IR_0214_1310	Q1BpR - Q2eR - Horizontal Cold Test	50	18-Jun-2029	28-Aug-2029	0																				
INST	E0704_06500	Install Rear Cryostats	140	29-Aug-2029	25-Mar-2030	0																				
CRYO	E09_16437	2K Distribution System Installation Contract - Phase 3 - SRF Cryomodule & SC Magnet Forward Side Readiness -	0		25-Mar-2030	0																				
CRYO	E09_16467	Vendor Effort 2K Distribution System Installation Contract - Phase 3 - Forward Side Tunnel TL to Load - IR06	80	26-Mar-2030	18-Jul-2030	0																				
CRYO	E09_16432	Crabs&2K magnets 06-side Rear Cryo-Mechanical Installation - Complete - IR06	1	19-Jul-2030	19-Jul-2030	0																				
CRYO	E09_16437M	2K Distribution System Installation Contract - Phase 3 - SRF Cryomodule & SC Magnet Rear Side Readiness - IR06	0		19-Jul-2030	0																				
CRYO	E09_16462	Vendor Effort 2K Distribution System Installation Contract - Phase 3 - Rear Side Tunnel TL to Load - IR06	80	22-Jul-2030	11-Nov-2030	0																				
CRYO	E09_16470	RCV: 2K Distribution System Installation Contract - IR06	1	12-Nov-2030	12-Nov-2030	0																				
CRYO	E09_16431	Crabs&2KMagnets 05-side Forward Cryo-Mechanical Installation - Complete - IR06	1	13-Nov-2030	13-Nov-2030	0																				
CRYO	E09_16540	Perform Final Distribution System Pressure Testing - IR06 - ESR - TJ	40	14-Nov-2030	23-Jan-2031	0																				
COM	PO_0204_1200	HSR - Systems Commissioning - Cryo Support	60	08-Jan-2031	03-Apr-2031	0																				
COM	PO_0704_1000	HSR - IRR/ARR Prep Team above and beyond LOE ESH Staff	60	08-Jan-2031	03-Apr-2031	0																				
CRYO	E09_12976	Satellite Plant Commissioning Readiness Review - IR06 - TJ	5	24-Jan-2031	30-Jan-2031	0																				
CRYO	E09_12990	Perform Satellite Plant Commissioning with Controls and Distribution System - IR06 - TJ	45	31-Jan-2031	03-Apr-2031	0																				
COM	PO_0204_1320	HSR - Systems Commissioning Complete	0		03-Apr-2031	0																				
COM	PO_0704_1020	HSR - IRR Review	10	04-Apr-2031	17-Apr-2031	0																				
COM	PO_0704_1030	HSR - ARR Review	10	18-Apr-2031	01-May-2031	0																				
COM	PO_0704_1060	HSR - IRR/ARR Closeout Process	45	02-May-2031	08-Jul-2031	0																				
COM	PO_0704_1120	HSR - DOE BSHO Approval to Begin Commissioning with Beam	0		08-Jul-2031	0																				
COM	PO_0304_1000	HSR - Ready to Start Commissioning with Beam	0		08-Jul-2031	0																				
COM	PO_0304_1200	HSR - Beam Commissioning - Materials	60	09-Jul-2031	01-Oct-2031	0																				
COM	PO_0304_1020	HSR - Beam Commissioning - Labor Support	60	09-Jul-2031	01-Oct-2031	0																				
COM	PO_0304_1010	HSR - Beam Commissioning - Physics & Operators/MCR Support	60	09-Jul-2031	01-Oct-2031	0																				
COM	PO_0304_1210	HSR - Beam Commissioning Complete	0		01-Oct-2031	0																				
COM	PO_0305_1000	Collider Systems Ready to Start Commissioning with Beam	0		01-Oct-2031	0																				
COM	PO_0305_1200	Beam Collision - Materials	40	02-Oct-2031	02-Dec-2031	0																				
COM	PO_0305_1010	Beam Collision - Physics & Operators/MCR Support	40	02-Oct-2031	02-Dec-2031	0																				
COM	PO_0305_1020	Beam Collision - Labor Support	40	02-Oct-2031	02-Dec-2031	0																				
COM	PO_0305_1205	Collider Systems - Beam Commissioning Complete Ready for Detector Commissioning	0		02-Dec-2031	0																				
COM	PO_0305_1230	Detector Beam Commissioning (check duration, link to Detector IRR/ARR)	125	03-Dec-2031	01-Jun-2032	0																				
PM	PM_1070	CD-4 Preparation for Scope Review	22	30-Apr-2032	01-Jun-2032	0																				
PM	L2_0900	EIC Beam Commissioning Completed	0		01-Jun-2032	0																				
PM	L2_0920	CD-4 Scope Verification Review Complete	0		01-Jun-2032	0																				
PM	PM_1080	CD-4 IPR Review and Preparation	21	02-Jun-2032	01-Jul-2032	0																				
PM	L2_0940	CD-4 DOE Independent Project Review (IPR) Complete	0		01-Jul-2032	0																				
PM	PM_1090	CD-4 ESAAB Lead Time	64	02-Jul-2032	01-Oct-2032	0																				
PM	L2_0960	CD-4 Approval Early Completion	0		01-Oct-2032	0																				
PM	L2_0980	CD-4 Schedule Float	517	04-Oct-2032	31-Oct-2034	0																				
PM	L1_075	CD-4 Approve Start of Operations or Project Completion	0		31-Oct-2034*	0																				