

Activity ID	Activity Name	At Completion Duration	Total Float	Start	Finish	BL Project Start	BL Project Finish	Variance - BL Project Finish Date	Budgeted Labor Units	Budgeted Nonlabor Units	Budgeted Total Cost	BL Project Total Cost	2019		2020		2021	
													FY19	FY20	FY21	FY22		
S195400	Procure EMCAL Mechanical Parts for Final Sectors - Delivery Acceptan	187	0	14-Sep-20 A	14-Jun-21	04-Jan-21	08-Jan-21	-108	0	251357	291,746	291,746						
S187500	Receive, unpack, log & inspect final blocks	295	0	23-Nov-20 A	31-Jan-22	31-Aug-20	28-Sep-21	-82	1384	0	179,682	178,031						
S187800	Install reflectors on final blocks Labor	295	0	23-Nov-20 A	31-Jan-22	04-Sep-20	04-Oct-21	-78	1384	0	179,723	178,148						
S187900	Install reflectors on final blocks M&S	295	0	23-Nov-20 A	31-Jan-22	04-Sep-20	04-Oct-21	-78	0	0	0	0						
S196200	Build mechanical enclosures for final sectors	107	0	12-Jan-21 A	14-Jun-21	09-Oct-20	08-Jan-21	-108	720	0	84,633	84,633						
S196300	Build mechanical fixtures for final sectors	107	0	12-Jan-21 A	14-Jun-21	10-Sep-20	08-Dec-20	-129	720	0	84,633	84,017						
S196400	Build cooling system for final sectors	107	0	12-Jan-21 A	14-Jun-21	16-Nov-20	12-Feb-21	-84	180	0	27,303	27,303						
S196100	Procure EMCAL Cooling System for Final Sectors - Delivery Acceptance	103	0	18-Jan-21 A	14-Jun-21	08-Feb-21	12-Feb-21	-84	0	70893	82,284	82,284						
S187600	Install light guides on final blocks Labor	257	0	21-Jan-21 A	31-Jan-22	02-Sep-20	30-Sep-21	-80	1384	0	180,018	178,070						
S187700	Install light guides on final blocks M&S	257	0	21-Jan-21 A	31-Jan-22	02-Sep-20	30-Sep-21	-80	0	1650	1,926	1,912						
S188000	Install SiPMs daughterboards on final blocks Labor	259	0	22-Jan-21 A	03-Feb-22	11-Sep-20	08-Oct-21	-77	1384	0	180,039	178,304						
S188200	Glue final blocks together into modules	259	0	22-Jan-21 A	03-Feb-22	15-Sep-20	13-Oct-21	-75	1384	0	180,039	178,382						
S188100	Install SiPMs daughterboards on final blocks M&S	259	0	22-Jan-21 A	03-Feb-22	11-Sep-20	08-Oct-21	-77	0	300	350	348						
S196500	Install modules in final sectors	257	0	26-Jan-21 A	03-Feb-22	14-Oct-20	13-Oct-21	-75	1845	0	234,726	232,867						
S196700	Install readout electronics on final sectors	240	0	22-Feb-21 A	04-Feb-22	16-Dec-20	15-Oct-21	-74	1845	0	235,148	232,976						
S196800	Install cables & cooling system on final sectors	240	0	22-Feb-21 A	04-Feb-22	18-Dec-20	19-Oct-21	-72	3573	0	500,103	495,600						
S196900	Test final sectors with LEDs & cosmic rays	239	0	23-Feb-21 A	04-Feb-22	22-Dec-20	21-Oct-21	-70	5532	0	125,693	124,632						
S229400	Test EMCal Preamp Boards: Production Sectors 13-64	76	0	26-Feb-21 A	14-Jun-21	14-Dec-20	08-Apr-21	-46	384	0	6,313	6,313						
S197000	Repair or rework any sectors as required	224	0	16-Mar-21 A	04-Feb-22	23-Dec-20	22-Oct-21	-69	3921	0	252,651	250,055						
S229405	Test EMCal Preamp Boards: Production Sectors 13-64 - Contributed L&	55	0	29-Mar-21 A	14-Jun-21	14-Dec-20	08-Apr-21	-46	249	0	31,221	31,221						
S196600	EMCal Modules Complete	0	0		03-Feb-22		13-Oct-21	-75	0	0	0	0						
S197300	EMCal Ready to Install	0	0		04-Feb-22		12-Jan-22	-16	0	0	0	0						
S197100	EMCal Sectors Complete	0	0		04-Feb-22		22-Oct-21	-69	0	0	0	0						