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Activity ID		Activity Name		Dur	BL Start	BL Finish	New Start	New Finish	Total Float	Predecessors	Successors	2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027					
												q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q					
		FEE30360	IpGBT QA, Measure the 2/3 of IpGBT Production Batch	44	02-Jun-23	04-Aug-23	02-Nov-23	05-Jan-24	0	FEE30351	FEE30370																												
		FEE30370	IpGBT QA, Measure all IpGBT Production Batch	44	04-Aug-23	06-Oct-23	08-Jan-24	08-Mar-24	0	FEE30360	FEE30380																												
		FEE30380	Milestone: IpGBT Complete	0		06-Oct-23		08-Mar-24	0	FEE30370	FEB21329R																												
		6.04.01.03.04 FE Electronics-SMU VL+		1288	03-Jul-17	07-Mar-22	03-Jul-17	04-Aug-22	1557																														
		No AP2 Task Group - Temp		1288	03-Jul-17	07-Mar-22	03-Jul-17	04-Aug-22	1557																														
		FEE30390	VL+ Pre-Prototype 1 test LDQ10P with Setup from CERN , Die Characterization	32	03-Jul-17	16-Aug-17	03-Jul-17*	16-Aug-17	0	FY2017	FEE30400																												
		FEE30400	VL+ Pre-Prototype 1 test LDQ10P with Setup from CERN, Identify Parameters for	34	17-Aug-17	04-Oct-17	17-Aug-17	04-Oct-17	249	FEE30390	FEE30490EX, FY2019																												
		FEE30495M	Material for VL+ Quad TX Prototype - 120 VL+ @ \$120 Each	40	03-May-21	28-Jun-21	03-May-21*	28-Jun-21	358	MREFC	FEB21208R, FEE30498																												
		FEE30498	Milestone: VL+ purchased for prototype FEB2	0		28-Jun-21		28-Jun-21	448	FEE30495M	FEE30500																												
		FEE30500	VL+ OTx Prototype QA OTX Characterization	42	29-Jun-21	26-Aug-21	29-Jun-21	26-Aug-21	448	FEE30498	FEE30510																												
		FEE30510	VL+ OTx Prototype QA, Define Parameters to be Measured for QA	43	27-Aug-21	28-Oct-21	27-Aug-21	28-Oct-21	448	FEE30500	FEE30520																												
		FEE30520	VL+ OTx Prototype QA, Prepare OTAX Test Stand	45	29-Oct-21	04-Jan-22	29-Oct-21	04-Jan-22	448	FEE30510	FEE30540																												
		FEE30490EX	External Milestone: VL+ Fabrication	0		03-May-21		02-Mar-22*	1667	FEE30400																													
		FEE30540M10	Solicit Quotes	14	05-Jan-22	18-Jan-22	01-Jun-22	20-Jun-22	402	FEE30540	FEE30540M20																												
		FEE30540	VL+ OTx Prototype QA, OTx Testing	43	05-Jan-22	07-Mar-22	01-Jun-22*	01-Aug-22	345	FEE30520	FEE31160, FEE30560,																												
		FEE30540M20	Select Vendor and Place Order	10	19-Jan-22	01-Feb-22	21-Jun-22	05-Jul-22	402	FEE30540M10	FEE30540M30, FEE30540O																												
		FEE30540M30	Delivery	22	02-Feb-22	04-Mar-22	06-Jul-22	04-Aug-22	402	FEE30540M	FEE30540M40																												
		FEE30560	Milestone: VL+Otx Prototype Finished	0		07-Mar-22		01-Aug-22	405	FEE30540	FEE30540M40																												
		FEE30540M40	PMT: VL+OTX Production - 10,400 Quad @120 Each, 3,500 Single @30 Each 67%	1	07-Mar-22	07-Mar-22	04-Aug-22	04-Aug-22	402	FEE30540M30	FEB21484R, FEE30560, FEE30550																												
		FEE30550	Milestone: production VL+ purchased	0		07-Mar-22		04-Aug-22	402	FEE30540M40	FEB21329R																												
		6.04.01.03.05 FE Electronics-SMU FEB Datalink Pre-Prototype		470	01-Feb-18	10-Dec-19	01-Feb-18	10-Dec-19	1695																														
		No AP2 Task Group - Temp		470	01-Feb-18	10-Dec-19	01-Feb-18	10-Dec-19	1695																														
		FEE30600	Soft_IpGBT - Interface Design and Planning	20	01-Feb-18	01-Mar-18	01-Feb-18*	01-Mar-18	0	FY2018	FEE30610																												
		FEE30610	Soft_IpGBT - Adapt the CERN IpGBT Simulation Code to KC705 fpga	20	02-Mar-18	29-Mar-18	02-Mar-18	29-Mar-18	201	FEE30600	FEE30615																												
		FEE30615	Soft_IpGBT - Adapt the Code to KC705, Framing Part Coding	44	30-Mar-18	31-May-18	30-Mar-18	31-May-18	201	FEE30610	FEE30620																												
		FEE30620	Soft_IpGBT - Adapt the Code to KC705, GTx Part Coding	21	01-Jun-18	29-Jun-18	01-Jun-18	29-Jun-18	201	FEE30615	FEE30625																												
		FEE30625	Soft_IpGBT - Adapt the Code to KC705, the Deserializer Part Coding	44	02-Jul-18	31-Aug-18	02-Jul-18	31-Aug-18	201	FEE30620	FEE30630																												
		FEE30630	Soft_IpGBT - Adapt the Code to KC705, Check with Internal Loop-back	20	04-Sep-18	01-Oct-18	04-Sep-18	01-Oct-18	201	FEE30625	FEE30635																												
		FEE30635	Soft_IpGBT - Adapt the Code to KC705, Check with External Loop-back	20	02-Oct-18	30-Oct-18	02-Oct-18	30-Oct-18	201	FEE30630	FEE30640																												
		FEE30640	ADC_emulator - Code the Serial Output	22	31-Oct-18	30-Nov-18	31-Oct-18	30-Nov-18	201	FEE30635	FEE30645																												
		FEE30645	ADC_emulator - add BCID Counter, Event Builder	42	03-Dec-18	31-Jan-19	03-Dec-18	31-Jan-19	201	FEE30640	FEE30650																												
		FEE30650	Soft_IpGBT + ADC_Emulator Integration	20	01-Feb-19	01-Mar-19	01-Feb-19	01-Mar-19	201	FEE30645	FEE30660																												

Primary Baseline

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Summary

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Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	Predecessors	Successors	2016			2017			2018			2019			2020			2021			2022			2023			2024			2025			2026			2027																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	Predecessors	Successors	2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027						
										Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
	FEB21759R	REQD: Final 25% FEB2 from BNL	0	25-Nov-25		28-Apr-26	0	SYS460412A	FEB21760																								◆ REQD: Final 25%					
	FEB21760T	Travel for FEB2 Acceptance Tests at CERN - Final 25%	29	25-Nov-25	08-Jan-26	28-Apr-26	1	FEB21760	FEB21770																								■ Travel for FEB2					
	FEB21760	FEB2 Acceptance Tests at CERN - Final 25%	30	25-Nov-25	09-Jan-26	28-Apr-26	0	FEB21750, FEB21759R,	FEB21760T, FEB21770,																								■ FEB2 Accepta					
	FEB21770	Milestone: FEB2 Acceptance Tests at CERN - 100% Complete	0		09-Jan-26		0	FEB21760, FEB21760T,	FEB21765EX10, XCD4014,																								◆ Milestone: FEB					
6.04.02.01.08 Software License			1874	03-Oct-16	01-Mar-24	03-Oct-16	01-Mar-24	779			01-Mar-24, 6.04.02.01.08 Software L																											
No AP2 Task Group - Temp			1874	03-Oct-16	01-Mar-24	03-Oct-16	01-Mar-24	779			01-Mar-24, No AP2 Task Group - Temp																											
	FEB21780	PADS Software License from Mentor FY17	103	03-Oct-16	01-Mar-17	03-Oct-16	01-Mar-17	779	FY2017	FEB21780M																							■ PADS Software License from Mentor FY17					
	FEB21780M	Material for PADS Software License from Mentor FY17	1	01-Mar-17	01-Mar-17	01-Mar-17	01-Mar-17	779	FEB21780	FEB21790																							■ Material for PADS Software License from Mentor FY17					
	FEB21790	PADS Software License from Mentor FY18	253	02-Mar-17	01-Mar-18	02-Mar-17	01-Mar-18	779	FEB21780M	FEB21790M, FEB21800																							■ PADS Software License from Mentor FY18					
	FEB21790M	Material for PADS Software License from Mentor FY18	1	01-Mar-18	01-Mar-18	01-Mar-18	01-Mar-18	779	FEB21790	FEB21800																							■ Material for PADS Software License from Mentor FY18					
	FEB21800	PADS Software License from Mentor FY19	253	02-Mar-18	01-Mar-19	02-Mar-18	01-Mar-19	779	FEB21790, FEB21790M	FEB21810, FEB21800M																							■ PADS Software License from Mentor FY19					
	FEB21800M	Material for PADS Software License from Mentor FY19	1	01-Mar-19	01-Mar-19	01-Mar-19	01-Mar-19	779	FEB21800	FEB21810																							■ Material for PADS Software License from Mentor FY19					
	FEB21810	PADS Software License from Mentor FY20	253	04-Mar-19	02-Mar-20	04-Mar-19	02-Mar-20	779	FEB21800, FEB21800M	FEB21820, FEB21810M																							■ PADS Software License from Mentor FY20					
	FEB21810M	Material for PADS Software License from Mentor FY20	1	02-Mar-20	02-Mar-20	02-Mar-20	02-Mar-20	779	FEB21810	FEB21820																							■ Material for PADS Software License from Mentor FY20					
	FEB21820	PADS Software License from Mentor FY21	252	03-Mar-20	01-Mar-21	03-Mar-20	01-Mar-21	779	FEB21810, FEB21810M	FEB21830, FEB21820M																							■ PADS Software License from Mentor FY21					
	FEB21820M	Material for PADS Software License from Mentor FY21	1	01-Mar-21	01-Mar-21	01-Mar-21	01-Mar-21	779	FEB21820	FEB21830																							■ Material for PADS Software License from Mentor FY21					
	FEB21830	PADS Software License from Mentor FY22	253	02-Mar-21	01-Mar-22	02-Mar-21	01-Mar-22	779	FEB21820, FEB21820M	FEB21840, FEB21830M																							■ PADS Software License from Mentor FY22					
	FEB21830M	Material for PADS Software License from Mentor FY22	1	01-Mar-22	01-Mar-22	01-Mar-22	01-Mar-22	779	FEB21830	FEB21840																							■ Material for PADS Software License from Mentor FY22					
	FEB21840	PADS Software License from Mentor FY23	253	02-Mar-22	01-Mar-23	02-Mar-22	01-Mar-23	779	FEB21830, FEB21830M	FEB21850, FEB21840M																							■ PADS Software License from Mentor FY23					
	FEB21840M	Material for PADS Software License from Mentor FY23	1	01-Mar-23	01-Mar-23	01-Mar-23	01-Mar-23	779	FEB21840	FEB21850																							■ Material for PADS Software License from Mentor					
	FEB21850	PADS Software License from Mentor FY24	254	02-Mar-23	01-Mar-24	02-Mar-23	01-Mar-24	779	FEB21840, FEB21840M	FEB21850M																							■ PADS Software License from Mentor F					
	FEB21850M	Material for PADS Software License from Mentor FY24	1	01-Mar-24	01-Mar-24	01-Mar-24	01-Mar-24	779	FEB21850	XCD4004																							■ Material for PADS Software License fr					
6.04.03 BE Electronics			2311	02-Oct-17	16-Dec-25	02-Oct-17	19-Nov-26	471			19-Nov-26																											
6.04.03.01 BE Electronics - SB			2232	02-Jan-18	20-Nov-25	02-Jan-18	27-Oct-26	488			27-Oct-26,																											
6.04.03.01.01 BEE Pre-Prototype V1 Design			465	02-Jan-18	31-Oct-19	02-Jan-18	31-Oct-19	308			31-Oct-19, 6.04.03.01.01 BEE Pre-Prototype V1 Design																											
AP2 Task Group - Temp: BEE Pre-Prototype V1 Design			465	02-Jan-18	31-Oct-19	02-Jan-18	31-Oct-19	308			31-Oct-19, AP2 Task Group - Temp: BEE Pre-Prototype V1 Design																											
	BEE10010	Evaluate Phase I LASP MB and AMC Parts Obsolescence	34	02-Jan-18	16-Feb-18	02-Jan-18*	16-Feb-18	0	FY2018	BEE10020																							■ Evaluate Phase I LASP MB and AMC Parts Obsolescence					
	BEE10020	Study New Phase I LASP MB and AMC Parts	31	20-Feb-18	03-Apr-18	20-Feb-18	03-Apr-18	202	BEE10010	BEE10030																							■ Study New Phase I LASP MB and AMC Parts					
	BEE10030	Select FPGA, GbE Switch and Major Parts Needing Replacement	44	04-Apr-18	05-Jun-18	04-Apr-18	05-Jun-18	202	BEE10020	BEE10040																							■ Select FPGA, GbE Switch and Major Parts Needing Replacement					
	BEE10040	Purchase FPGA Evaluation Board and Develop Simple Example Firmware	28	06-Jun-18	16-Jul-18	06-Jun-18	16-Jul-18	202	BEE10030	BEE10050, BEE10040M																							■ Purchase FPGA Evaluation Board and Develop Simple Example Firmware					
	BEE10040M	Material for Purchasing FPGA Evaluation Board and Develop Simple Example	28	06-Jun-18	16-Jul-18	06-Jun-18	16-Jul-18	202	BEE10040	BEE10050																							■ Material for Purchasing FPGA Evaluation Board and Develop Simple Example Firmware					
	BEE10050	Further Develop V1 Firmware	29	17-Jul-18	24-Aug-18	17-Jul-18	24-Aug-18	202	BEE10040, BEE10040M	BEE10060																							■ Further Develop V1 Firmware					
Primary Baseline			Remaining Work			◆ Milestone		Page 27 of 55																														
Actual Work			Critical Remaining Work			Summary																																

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Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	Predecessors	Successors	2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027						
										Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
	MGT43380	Project Management - FY23	252	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0	FY2023	FY2024																												
	MGT43390	Project Management - FY24	253	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0	FY2024	FY2025																												
	MGT43400	Project Management - FY25	253	01-Oct-24	30-Sep-25	01-Oct-24	30-Sep-25	0	FY2025	FY2026																												
6.04.05 PA Shaper			2213	03-Jan-17	30-Sep-25	03-Jan-17	30-Sep-25	0			Project Management - FY23																											
6.04.05.01 PA Shaper-BNL			2023	03-Jan-17	10-Oct-24	03-Jan-17	02-Jan-25	159			Project Management - FY24																											
6.04.05.01.01 LAr FE ASIC Pre-prototype1 Design			83	03-Apr-17	28-Jul-17	03-Apr-17	28-Jul-17	11			Project Management - FY25																											
No AP2 Task Group - Temp			83	03-Apr-17	28-Jul-17	03-Apr-17	28-Jul-17	11			30-Sep-25, 6.04.05 PA Shaper																											
	ASIC460010	Pre-Prototype ASIC Submission	21	03-Apr-17	01-May-17	03-Apr-17*	01-May-17	0	FY2017	ASIC460020, ASIC460020	28-Jul-17, 6.04.05.01.01 LAr FE ASIC Pre-prototype1 Design																											
	ASIC460020	Pre-Prototype ASIC Fabrication	40	01-May-17	27-Jun-17	01-May-17	27-Jun-17	11	ASIC460010, ASIC460010	ASIC460030, ASIC460030	28-Jul-17, No AP2 Task Group - Temp																											
	ASIC460030	Pre-Prototype ASIC Packaging	22	27-Jun-17	28-Jul-17	27-Jun-17	28-Jul-17	11	ASIC460020, ASIC460020	ASIC460060, ASIC460090	Pre-Prototype ASIC Submission																											
6.04.05.01.02 LAr FE ASIC Pre-prototype1 Test			193	03-Jan-17	04-Oct-17	03-Jan-17	04-Oct-17	96			Pre-Prototype ASIC Fabrication																											
No AP2 Task Group - Temp			193	03-Jan-17	04-Oct-17	03-Jan-17	04-Oct-17	96			Pre-Prototype ASIC Packaging																											
	ASIC460041A	AVAIL: Start with Penn Analog Board	0		03-Jan-17		03-Jan-17	198	ASIC460040	ASIC470008R	04-Oct-17, 6.04.05.01.02 LAr FE ASIC Pre-prototype1 Test																											
	ASIC460040	Pre-Prototype Main Test Board Design	43	03-Jan-17	03-Mar-17	03-Jan-17	03-Mar-17	70	FY2017	ASIC460050, ASIC460041A	04-Oct-17, No AP2 Task Group - Temp																											
	ASIC460050	Pre-Prototype Main Test Board Fabrication	44	06-Mar-17	04-May-17	06-Mar-17	04-May-17	70	ASIC460040	ASIC460060, ASIC460050T, ASIC460060	AVAIL: Start with Penn Analog Board																											
	ASIC460050T	Travel for Pre-Prototype Main Test Board Fabrication	44	06-Mar-17	04-May-17	06-Mar-17	04-May-17	70	ASIC460050	ASIC460060	Pre-Prototype Main Test Board Design																											
	ASIC460060	Pre-Prototype ASIC Evaluation Test	20	28-Jul-17	25-Aug-17	28-Jul-17	25-Aug-17	11	ASIC460050, ASIC460030,	ASIC460060M, ASIC460060T,	Pre-Prototype Main Test Board Fabrication																											
	ASIC460060M	Material for Pre-Prototype ASIC Evaluation Test	20	28-Jul-17	25-Aug-17	28-Jul-17	25-Aug-17	96	ASIC460060	ASIC460070	Travel for Pre-Prototype Main Test Board Fabrication																											
	ASIC460060T	Travel for Pre-Prototype ASIC Evaluation Test	20	28-Jul-17	25-Aug-17	28-Jul-17	25-Aug-17	96	ASIC460060	ASIC460070	Pre-Prototype ASIC Evaluation Test																											
	ASIC460070M	Material for Pre-Prototype ASIC Irradiation Test	16	25-Aug-17	19-Sep-17	25-Aug-17	19-Sep-17	97	ASIC460070	ASIC460080	Material for Pre-Prototype ASIC Evaluation Test																											
	ASIC460070	Pre-Prototype ASIC Irradiation Test	17	25-Aug-17	20-Sep-17	25-Aug-17	20-Sep-17	96	ASIC460060, ASIC460060M	ASIC460080, ASIC460070M	Material for Pre-Prototype ASIC Irradiation Test																											
	ASIC460080	Pre-Prototype ASIC Feature Characterization	10	20-Sep-17	04-Oct-17	20-Sep-17	04-Oct-17	96	ASIC460070, ASIC460070M	ASIC460090	Pre-Prototype ASIC Irradiation Test																											
	ASIC460090	Milestone: ATLAS LAr Frontend Analog Down Select	0		04-Oct-17		04-Oct-17	96	ASIC460080, ASIC460030	ASIC460540, ASIC460110	Pre-Prototype ASIC Feature Characterization																											
6.04.05.01.03 LAr FE ASIC Pre-prototype2 Design			297	06-Dec-17	08-Feb-19	06-Dec-17	08-Feb-19	11			Milestone: ATLAS LAr Frontend Analog Down Select																											
No AP2 Task Group - Temp			297	06-Dec-17	08-Feb-19	06-Dec-17	08-Feb-19	11			08-Feb-19, 6.04.05.01.03 LAr FE ASIC Pre-prototype2 Design																											
	ASIC460101A	AVAIL: Design Available for Penn Component	0		06-Dec-17		06-Dec-17	70	ASIC460100	ASIC470080	08-Feb-19, No AP2 Task Group - Temp																											
	ASIC460100T	Travel for Pre-Prototype2 ASIC Core and Frame Schematics Design	41	06-Dec-17	05-Feb-18	06-Dec-17	05-Feb-18	12	ASIC460100	ASIC460110	AVAIL: Design Available for Penn Component																											
	ASIC460100	Pre-Prototype2 ASIC Core and Frame Schematics Design	42	06-Dec-17	06-Feb-18	06-Dec-17	06-Feb-18	11	ASIC460060	ASIC460100T, ASIC460110,	Travel for Pre-Prototype2 ASIC Core and Frame Schematics Design																											
	ASIC460110	Pre-Prototype2 ASIC Core and Frame Physical Layout Design	60	07-Feb-18	02-May-18	07-Feb-18	02-May-18	11	ASIC460100, ASIC460100T,	ASIC460120	Pre-Prototype2 ASIC Core and Frame Schematics Design																											
	ASIC460120	Pre-Prototype2 ASIC Core and Frame Post Layout Simulation	60	03-May-18	27-Jul-18	03-May-18	27-Jul-18	11	ASIC460110	ASIC460130	Pre-Prototype2 ASIC Core and Frame Physical Layout Design																											
	ASIC460129R	REQD: ASIC Component Layout from Penn	0	03-May-18		03-May-18		70	ASIC470090	ASIC460130, ASIC460180	Pre-Prototype2 ASIC Core and Frame Post Layout Simulation																											
	ASIC460130	Pre-Prototype2 ASIC Final Integration	60	30-Jul-18	23-Oct-18	30-Jul-18	23-Oct-18	11	ASIC460120, ASIC460129R	ASIC460130T, ASIC460140,	REQD: ASIC Component Layout from Penn																											
	ASIC460130T	Travel for Pre-Prototype2 ASIC Final Integration	60	30-Jul-18	23-Oct-18	30-Jul-18	23-Oct-18	11	ASIC460130	ASIC460140	Pre-Prototype2 ASIC Final Integration																											
	ASIC460140	Pre-Prototype2 ASIC Submission	22	24-Oct-18	23-Nov-18	24-Oct-18	23-Nov-18	11	ASIC460130, ASIC460130T	ASIC460150, ASIC460140M	Travel for Pre-Prototype2 ASIC Final Integration																											

Primary Baseline

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Summary

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Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	Predecessors	Successors	2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027					
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