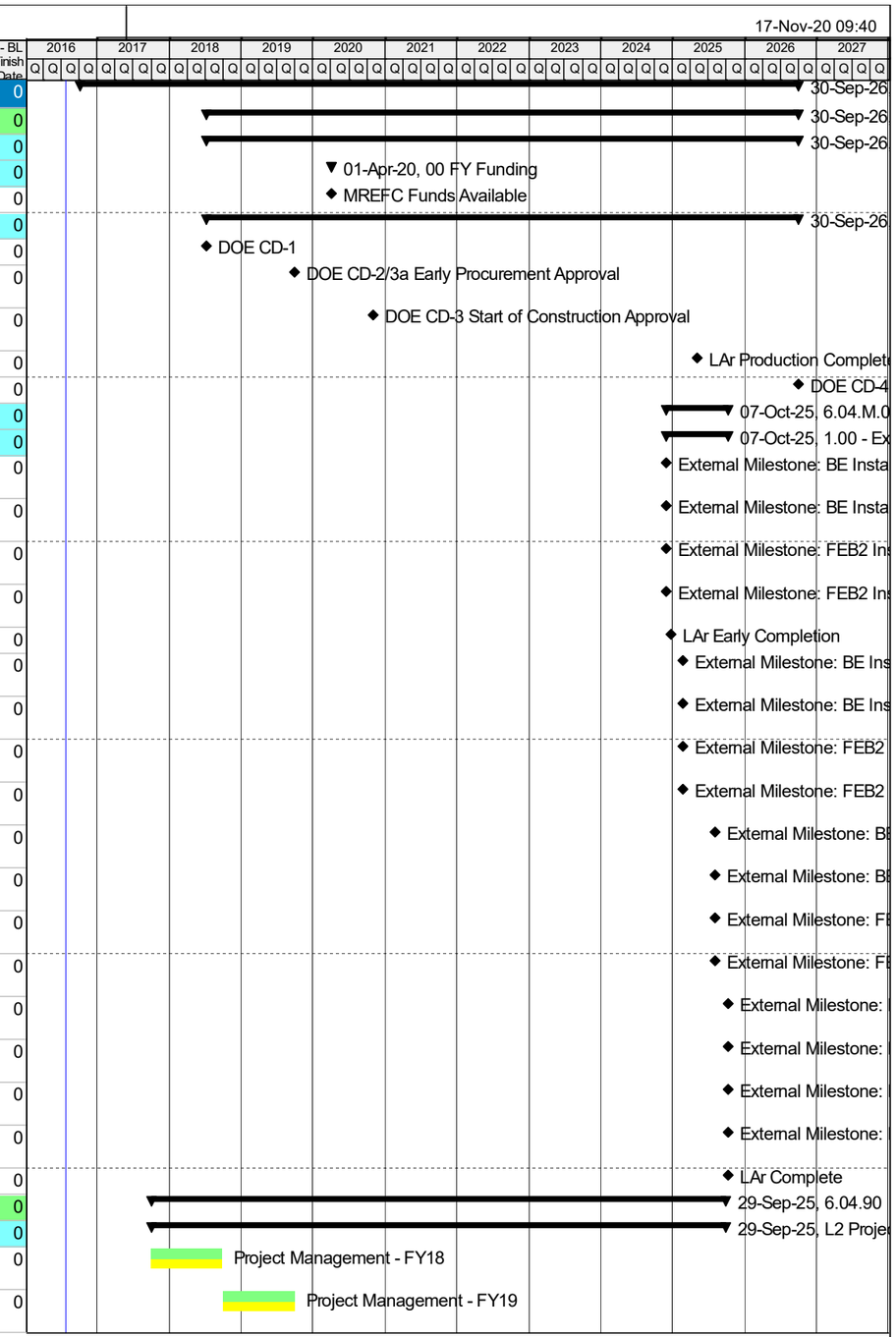
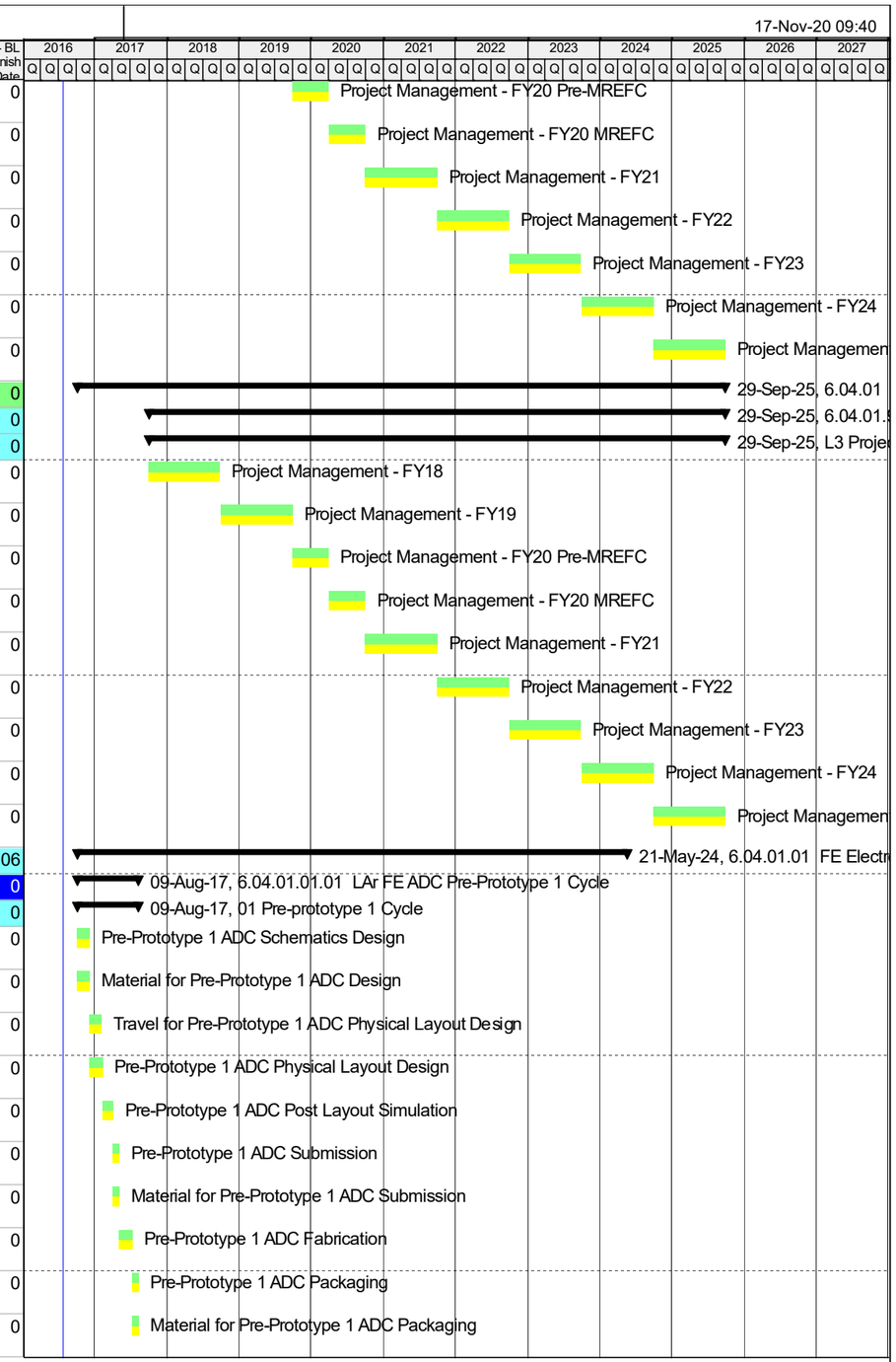
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
6.04 LAr		2527	03-Oct-16	30-Sep-26	03-Oct-16	30-Sep-26	507	$27,574,849.17	28,828,892.14	0
6.04.M Phase 2 Milestones		2082	09-Jul-18	30-Sep-26	09-Jul-18	30-Sep-26	0	$0.00	$0.00	0
6.04.M.01 Funding Milestones		2082	09-Jul-18	30-Sep-26	09-Jul-18	30-Sep-26	0	$0.00	$0.00	0
00 FY Funding		0	01-Apr-20	01-Apr-20	01-Apr-20	01-Apr-20	0	$0.00	$0.00	0
MREFC	MREFC Funds Available	0	01-Apr-20		01-Apr-20*		0	$0.00	$0.00	0
CD Milestones		2082	09-Jul-18	30-Sep-26	09-Jul-18	30-Sep-26	0	$0.00	$0.00	0
CD4000	DOE CD-1	0	09-Jul-18		09-Jul-18*		0	$0.00	$0.00	0
CD4010	DOE CD-2/3a Early Procurement Approval	0	30-Sep-19		30-Sep-19*		0	$0.00	$0.00	0
CD4015	DOE CD-3 Start of Construction Approval	0	02-Nov-20		02-Nov-20*		0	$0.00	$0.00	0
CD4020	LAr Production Complete	0	05-May-25		05-May-25*		0	$0.00	$0.00	0
CD4030	DOE CD-4 (Early Finish)	0		30-Sep-26		30-Sep-26	0	$0.00	$0.00	0
6.04.M.02 Level 1 Milestones		215	02-Dec-24	07-Oct-25	02-Dec-24	07-Oct-25	0	$0.00	$0.00	0
1.00 - External Milestones		215	02-Dec-24	07-Oct-25	02-Dec-24	07-Oct-25	0	$0.00	$0.00	0
BEE440865EX	External Milestone: BE Installation - Endcap A	0		02-Dec-24		02-Dec-24	215	$0.00	$0.00	0
BEE440865EX10	External Milestone: BE Installation - Endcap A	0	02-Dec-24		02-Dec-24*		0	$0.00	$0.00	0
FEB21725EX	External Milestone: FEB2 Installation - Endcap A	0		02-Dec-24		02-Dec-24	215	$0.00	$0.00	0
FEB21725EX10	External Milestone: FEB2 Installation - Endcap A	0	02-Dec-24		02-Dec-24*		0	$0.00	$0.00	0
XCD4001	LAr Early Completion	0		26-Dec-24		26-Dec-24	0	$0.00	$0.00	0
BEE440868EX	External Milestone: BE Installation - Endcap C	0		24-Feb-25		24-Feb-25	158	$0.00	$0.00	0
BEE440868EX10	External Milestone: BE Installation - Endcap C	0	24-Feb-25		24-Feb-25*		0	$0.00	$0.00	0
FEB21735EX	External Milestone: FEB2 Installation - Endcap C	0		24-Feb-25		24-Feb-25	158	$0.00	$0.00	0
FEB21735EX10	External Milestone: FEB2 Installation - Endcap C	0	24-Feb-25		24-Feb-25*		0	$0.00	$0.00	0
BEE440915EX	External Milestone: BE Installation - Barrel C	0		05-Aug-25		05-Aug-25	44	$0.00	$0.00	0
BEE440915EX10	External Milestone: BE Installation - Barrel C	0	05-Aug-25		05-Aug-25*		0	$0.00	$0.00	0
FEB21755EX	External Milestone: FEB2 Installation - Barrel C	0		05-Aug-25		05-Aug-25	44	$0.00	$0.00	0
FEB21755EX10	External Milestone: FEB2 Installation - Barrel C	0	05-Aug-25		05-Aug-25*		0	$0.00	$0.00	0
BEE450840EX	External Milestone: BE Installation - Barrel A	0		07-Oct-25		07-Oct-25	0	$0.00	$0.00	0
BEE450840EX10	External Milestone: BE Installation - Barrel A	0	07-Oct-25		07-Oct-25*		0	$0.00	$0.00	0
FEB21765EX	External Milestone: FEB2 Installation - Barrel A	0		07-Oct-25		07-Oct-25	0	$0.00	$0.00	0
FEB21765EX10	External Milestone: FEB2 Installation - Barrel A	0	07-Oct-25		07-Oct-25*		0	$0.00	$0.00	0
XCD4004	LAr Complete	0		07-Oct-25		07-Oct-25*	0	$0.00	$0.00	0
6.04.90 L2 Project Management		2022	02-Oct-17	29-Sep-25	02-Oct-17	29-Sep-25	1	$0.00	$0.00	0
L2 Project Management		2022	02-Oct-17	29-Sep-25	02-Oct-17	29-Sep-25	1	$0.00	$0.00	0
MGT41010	Project Management - FY18	251	02-Oct-17	27-Sep-18	02-Oct-17	27-Sep-18	2	$0.00	$0.00	0
MGT41020	Project Management - FY19	252	01-Oct-18	27-Sep-19	01-Oct-18	27-Sep-19	1	$0.00	$0.00	0



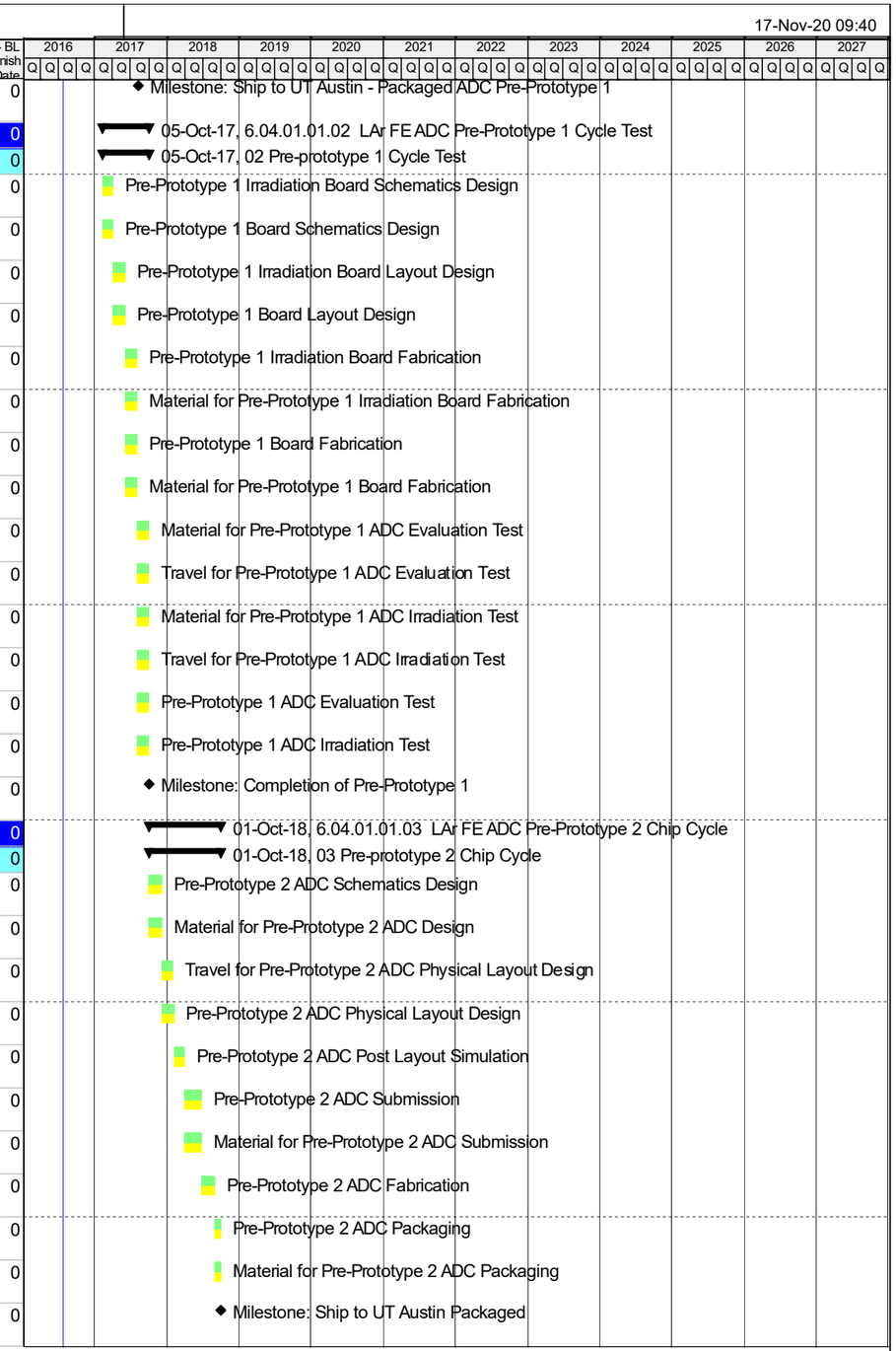
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
MGT41030	Project Management - FY20 Pre-MREFC	126	01-Oct-19	31-Mar-20	01-Oct-19	31-Mar-20	2	$0.00	$0.00	0
MGT41035	Project Management - FY20 MREFC	127	01-Apr-20	29-Sep-20	01-Apr-20	29-Sep-20	2	$0.00	$0.00	0
MGT41040	Project Management - FY21	252	01-Oct-20	29-Sep-21	01-Oct-20	29-Sep-21	1	$0.00	$0.00	0
MGT41050	Project Management - FY22	252	01-Oct-21	29-Sep-22	01-Oct-21	29-Sep-22	1	$0.00	$0.00	0
MGT41060	Project Management - FY23	251	03-Oct-22	28-Sep-23	03-Oct-22	28-Sep-23	1	$0.00	$0.00	0
MGT41070	Project Management - FY24	252	02-Oct-23	27-Sep-24	02-Oct-23	27-Sep-24	1	$0.00	$0.00	0
MGT41080	Project Management - FY25	252	01-Oct-24	29-Sep-25	01-Oct-24	29-Sep-25	1	$0.00	$0.00	0
6.04.01 FE Electronics		2274	03-Oct-16	29-Sep-25	03-Oct-16	29-Sep-25	760	$8,419,388.35	$8,656,688.21	0
6.04.01.90 L3 Project Management		2022	02-Oct-17	29-Sep-25	02-Oct-17	29-Sep-25	1	$0.00	$0.00	0
L3 Project Management		2022	02-Oct-17	29-Sep-25	02-Oct-17	29-Sep-25	1	$0.00	$0.00	0
MGT43090	Project Management - FY18	251	02-Oct-17	27-Sep-18	02-Oct-17	27-Sep-18	2	$0.00	$0.00	0
MGT43100	Project Management - FY19	252	01-Oct-18	27-Sep-19	01-Oct-18	27-Sep-19	1	$0.00	$0.00	0
MGT43110	Project Management - FY20 Pre-MREFC	126	01-Oct-19	31-Mar-20	01-Oct-19	31-Mar-20	2	$0.00	$0.00	0
MGT43115	Project Management - FY20 MREFC	127	01-Apr-20	29-Sep-20	01-Apr-20	29-Sep-20	2	$0.00	$0.00	0
MGT43120	Project Management - FY21	252	01-Oct-20	29-Sep-21	01-Oct-20	29-Sep-21	1	$0.00	$0.00	0
MGT43130	Project Management - FY22	252	01-Oct-21	29-Sep-22	01-Oct-21	29-Sep-22	1	$0.00	$0.00	0
MGT43140	Project Management - FY23	251	03-Oct-22	28-Sep-23	03-Oct-22	28-Sep-23	1	$0.00	$0.00	0
MGT43150	Project Management - FY24	252	02-Oct-23	27-Sep-24	02-Oct-23	27-Sep-24	1	$0.00	$0.00	0
MGT43160	Project Management - FY25	252	01-Oct-24	29-Sep-25	01-Oct-24	29-Sep-25	1	$0.00	$0.00	0
6.04.01.01 FE Electronics-Columbia		1931	03-Oct-16	20-Dec-23	03-Oct-16	21-May-24	1104	$3,287,529.92	$3,358,536.40	-106
6.04.01.01.01 LAr FE ADC Pre-Prototype 1 Cycle		216	03-Oct-16	09-Aug-17	03-Oct-16	09-Aug-17	150	$217,023.24	$217,543.24	0
01 Pre-prototype 1 Cycle		216	03-Oct-16	09-Aug-17	03-Oct-16	09-Aug-17	150	$217,023.24	$217,543.24	0
FEE10010	Pre-Prototype 1 ADC Schematics Design	43	03-Oct-16	02-Dec-16	03-Oct-16	02-Dec-16	128	$35,066.46	$35,066.46	0
FEE10010M	Material for Pre-Prototype 1 ADC Design	43	03-Oct-16	02-Dec-16	03-Oct-16	02-Dec-16	150	$4,500.00	$4,500.00	0
FEE10020T	Travel for Pre-Prototype 1 ADC Physical Layout Design	42	05-Dec-16	02-Feb-17	05-Dec-16	02-Feb-17	152	$2,000.00	$2,520.00	0
FEE10020	Pre-Prototype 1 ADC Physical Layout Design	44	05-Dec-16	06-Feb-17	05-Dec-16	06-Feb-17	150	$35,822.24	$35,822.24	0
FEE10030	Pre-Prototype 1 ADC Post Layout Simulation	43	06-Feb-17	07-Apr-17	06-Feb-17	07-Apr-17	150	$35,066.46	$35,066.46	0
FEE10040	Pre-Prototype 1 ADC Submission	20	07-Apr-17	05-May-17	07-Apr-17	05-May-17	150	$16,312.97	$16,312.97	0
FEE10040M	Material for Pre-Prototype 1 ADC Submission	20	07-Apr-17	05-May-17	07-Apr-17	05-May-17	150	$65,000.00	$65,000.00	0
FEE10050	Pre-Prototype 1 ADC Fabrication	45	05-May-17	11-Jul-17	05-May-17	11-Jul-17	150	$14,176.94	$14,176.94	0
FEE10060	Pre-Prototype 1 ADC Packaging	21	11-Jul-17	09-Aug-17	11-Jul-17	09-Aug-17	150	$6,578.17	$6,578.17	0
FEE10060M	Material for Pre-Prototype 1 ADC Packaging	21	11-Jul-17	09-Aug-17	11-Jul-17	09-Aug-17	150	$2,500.00	$2,500.00	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE10065	Milestone: Ship to UT Austin - Packaged ADC Pre-Prototype 1	0		09-Aug-17		09-Aug-17	150	$0.00	$0.00	0
6.04.01.01.02 LAr FE ADC Pre-Prototype 1 Cycle Test		**169**	**06-Feb-17**	**05-Oct-17**	**06-Feb-17**	**05-Oct-17**	**149**	**$163,375.02**	**$164,433.59**	**0**
02 Pre-prototype 1 Cycle Test		**169**	**06-Feb-17**	**05-Oct-17**	**06-Feb-17**	**05-Oct-17**	**149**	**$163,375.02**	**$164,433.59**	**0**
FEE10070	Pre-Prototype 1 Irradiation Board Schematics Design	42	06-Feb-17	06-Apr-17	06-Feb-17	06-Apr-17	150	$14,707.01	$14,707.01	0
FEE10080	Pre-Prototype 1 Board Schematics Design	42	06-Feb-17	06-Apr-17	06-Feb-17	06-Apr-17	150	$14,707.01	$14,707.01	0
FEE10090	Pre-Prototype 1 Irradiation Board Layout Design	42	06-Apr-17	06-Jun-17	06-Apr-17	06-Jun-17	150	$14,707.01	$14,707.01	0
FEE10100	Pre-Prototype 1 Board Layout Design	42	06-Apr-17	06-Jun-17	06-Apr-17	06-Jun-17	150	$14,707.01	$14,707.01	0
FEE10110	Pre-Prototype 1 Irradiation Board Fabrication	42	06-Jun-17	04-Aug-17	06-Jun-17	04-Aug-17	150	$7,125.39	$7,125.39	0
FEE10110M	Material for Pre-Prototype 1 Irradiation Board Fabrication	42	06-Jun-17	04-Aug-17	06-Jun-17	04-Aug-17	150	$11,000.00	$11,000.00	0
FEE10120	Pre-Prototype 1 Board Fabrication	42	06-Jun-17	04-Aug-17	06-Jun-17	04-Aug-17	150	$7,125.39	$7,125.39	0
FEE10120M	Material for Pre-Prototype 1 Board Fabrication	42	06-Jun-17	04-Aug-17	06-Jun-17	04-Aug-17	150	$16,000.00	$16,000.00	0
FEE10130M	Material for Pre-Prototype 1 ADC Evaluation Test	41	04-Aug-17	03-Oct-17	04-Aug-17	03-Oct-17	151	$500.00	$500.69	0
FEE10130T	Travel for Pre-Prototype 1 ADC Evaluation Test	41	04-Aug-17	03-Oct-17	04-Aug-17	03-Oct-17	151	$2,000.00	$2,523.46	0
FEE10140M	Material for Pre-Prototype 1 ADC Irradiation Test	41	04-Aug-17	03-Oct-17	04-Aug-17	03-Oct-17	151	$8,000.00	$8,010.98	0
FEE10140T	Travel for Pre-Prototype 1 ADC Irradiation Test	41	04-Aug-17	03-Oct-17	04-Aug-17	03-Oct-17	151	$2,000.00	$2,523.46	0
FEE10130	Pre-Prototype 1 ADC Evaluation Test	42	04-Aug-17	04-Oct-17	04-Aug-17	04-Oct-17	150	$28,531.09	$28,531.09	0
FEE10140	Pre-Prototype 1 ADC Irradiation Test	42	04-Aug-17	04-Oct-17	04-Aug-17	04-Oct-17	150	$22,265.10	$22,265.10	0
FEE10150	Milestone: Completion of Pre-Prototype 1	0		05-Oct-17		05-Oct-17	149	$0.00	$0.00	0
6.04.01.01.03 LAr FE ADC Pre-Prototype 2 Chip Cycle		**249**	**05-Oct-17**	**01-Oct-18**	**05-Oct-17**	**01-Oct-18**	**285**	**$185,795.84**	**$188,554.66**	**0**
03 Pre-prototype 2 Chip Cycle		**249**	**05-Oct-17**	**01-Oct-18**	**05-Oct-17**	**01-Oct-18**	**285**	**$185,795.84**	**$188,554.66**	**0**
FEE10160	Pre-Prototype 2 ADC Schematics Design	42	05-Oct-17	06-Dec-17	05-Oct-17	06-Dec-17	149	$27,394.44	$27,394.44	0
FEE10160M	Material for Pre-Prototype 2 ADC Design	42	05-Oct-17	06-Dec-17	05-Oct-17	06-Dec-17	149	$4,500.00	$4,635.00	0
FEE10170T	Travel for Pre-Prototype 2 ADC Physical Layout Design	40	06-Dec-17	02-Feb-18	06-Dec-17	02-Feb-18	151	$2,000.00	$2,595.60	0
FEE10170	Pre-Prototype 2 ADC Physical Layout Design	42	06-Dec-17	06-Feb-18	06-Dec-17	06-Feb-18	149	$27,394.44	$27,394.44	0
FEE10180	Pre-Prototype 2 ADC Post Layout Simulation	41	06-Feb-18	05-Apr-18	06-Feb-18	05-Apr-18	149	$26,255.61	$26,255.61	0
FEE10190	Pre-Prototype 2 ADC Submission	60	05-Apr-18	29-Jun-18	05-Apr-18	29-Jun-18	149	$13,115.90	$13,115.90	0
FEE10190M	Material for Pre-Prototype 2 ADC Submission	60	05-Apr-18	29-Jun-18	05-Apr-18	29-Jun-18	149	$65,000.00	$66,950.00	0
FEE10200	Pre-Prototype 2 ADC Fabrication	43	29-Jun-18	30-Aug-18	29-Jun-18	30-Aug-18	285	$11,839.48	$11,839.48	0
FEE10210	Pre-Prototype 2 ADC Packaging	21	30-Aug-18	01-Oct-18	30-Aug-18	01-Oct-18	285	$5,795.97	$5,795.97	0
FEE10210M	Material for Pre-Prototype 2 ADC Packaging	21	30-Aug-18	01-Oct-18	30-Aug-18	01-Oct-18	285	$2,500.00	$2,578.22	0
FEE10215	Milestone: Ship to UT Austin Packaged	0		01-Oct-18		01-Oct-18	285	$0.00	$0.00	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
6.04.01.01.04 LAr FE ADC Pre-Prototype 2 Chip Test		**147**	**29-Jun-18**	**30-Jan-19**	**29-Jun-18**	**30-Jan-19**	**149**	**$107,458.93**	**$108,608.06**	**0**
04 Pre-prototype 2 Chip Test		**147**	**29-Jun-18**	**30-Jan-19**	**29-Jun-18**	**30-Jan-19**	**149**	**$107,458.93**	**$108,608.06**	**0**
FEE10220	Pre-Prototype 2 Board Schematics Design	21	29-Jun-18	31-Jul-18	29-Jun-18	31-Jul-18	149	$20,534.26	$20,534.26	0
FEE10230	Pre-Prototype 2 Board Layout Design	20	31-Jul-18	28-Aug-18	31-Jul-18	28-Aug-18	149	$21,207.51	$21,207.51	0
FEE10240	Pre-Prototype 2 Board Fabrication	20	28-Aug-18	26-Sep-18	28-Aug-18	26-Sep-18	149	$10,274.81	$10,274.81	0
FEE10240M	Material for Pre-Prototype 2 Board Fabrication	20	28-Aug-18	26-Sep-18	28-Aug-18	26-Sep-18	149	$15,000.00	$15,450.00	0
FEE10250M	Material for Pre-Prototype 2 ADC Functional Test	42	26-Sep-18	27-Nov-18	26-Sep-18	27-Nov-18	193	$500.00	$529.67	0
FEE10250T	Travel for Pre-Prototype 2 ADC Functional Test	42	26-Sep-18	27-Nov-18	26-Sep-18	27-Nov-18	193	$2,000.00	$2,669.46	0
FEE10250	Pre-Prototype 2 ADC Functional Test	43	26-Sep-18	28-Nov-18	26-Sep-18	28-Nov-18	149	$22,065.89	$22,065.89	0
FEE10255A	AVAIL: Pre-Prototype 2 ADC	0		28-Nov-18		28-Nov-18	192	$0.00	$0.00	0
FEE10260	Pre-Prototype 2 ADC Performance Evaluation	43	28-Nov-18	30-Jan-19	28-Nov-18	30-Jan-19	149	$15,876.45	$15,876.45	0
FEE10265EX	External Milestone: ATLAS Specification Review	0		30-Jan-19		30-Jan-19	149	$0.00	$0.00	0
6.04.01.01.05 LAr FE ADC Pre-Prototype 3 Chip Cycle		**211**	**28-Nov-18**	**27-Sep-19**	**28-Nov-18**	**27-Sep-19**	**2045**	**$195,163.74**	**$196,267.08**	**0**
05 Pre-prototype 3 Chip Cycle		**211**	**28-Nov-18**	**27-Sep-19**	**28-Nov-18**	**27-Sep-19**	**2045**	**$195,163.74**	**$196,267.08**	**0**
FEE10270M	Material for Pre-Prototype 3 ADC Design	41	28-Nov-18	28-Jan-19	28-Nov-18	28-Jan-19	165	$4,774.05	$4,774.05	0
FEE10270	Pre-Prototype 3 ADC Schematics Design	43	28-Nov-18	30-Jan-19	28-Nov-18	30-Jan-19	163	$28,757.67	$28,757.67	0
FEE10280	Pre-Prototype 3 ADC Physical Layout Design	42	30-Jan-19	01-Apr-19	30-Jan-19	01-Apr-19	163	$27,963.81	$27,963.81	0
FEE10280T	Travel for Pre-Prototype 3 ADC Physical Layout Design	42	30-Jan-19	01-Apr-19	30-Jan-19	01-Apr-19	163	$2,121.80	$2,673.47	0
FEE10290	Pre-Prototype 3 ADC Post Layout Simulation	40	01-Apr-19	28-May-19	01-Apr-19	28-May-19	163	$26,297.87	$26,297.87	0
FEE10290T	Travel for Pre-Prototype 3 ADC Post Layout Simulation	40	01-Apr-19	28-May-19	01-Apr-19	28-May-19	163	$2,121.80	$2,673.47	0
FEE10300	Pre-Prototype 3 ADC Submission	31	28-May-19	11-Jul-19	28-May-19	11-Jul-19	163	$15,524.55	$15,524.55	0
FEE10300M	Material for Pre-Prototype 3 ADC Submission	31	28-May-19	11-Jul-19	28-May-19	11-Jul-19	2045	$68,958.50	$68,958.50	0
FEE10305	Milestone: Pre-prototype 3 ADC submission to foundry	0		11-Jul-19		11-Jul-19	2045	$0.00	$0.00	0
FEE10310	Pre-Prototype 3 ADC Fabrication	33	11-Jul-19	27-Aug-19	11-Jul-19	27-Aug-19	2045	$7,705.36	$7,705.36	0
FEE10320	Pre-Prototype 3 ADC Packaging	22	27-Aug-19	27-Sep-19	27-Aug-19	27-Sep-19	2045	$8,286.08	$8,286.08	0
FEE10320M	Material for Pre-Prototype 3 ADC Packaging	22	27-Aug-19	27-Sep-19	27-Aug-19	27-Sep-19	2045	$2,652.25	$2,652.25	0
FEE10325	Milestone: Ship to UT Austin - Packaged ADC Pre-Prototype 3	0		27-Sep-19		27-Sep-19	2045	$0.00	$0.00	0
FEE10330	Milestone: Pre-prototype 3 ADC packaging complete	0		27-Sep-19		27-Sep-19	2045	$0.00	$0.00	0
6.04.01.01.06 LAr FE ADC Pre-Prototype 3 Chip Test		**144**	**11-Jul-19**	**05-Feb-20**	**11-Jul-19**	**05-Feb-20**	**1998**	**$109,300.91**	**$110,046.42**	**0**
06 Pre-prototype 3 Chip Test		**144**	**11-Jul-19**	**05-Feb-20**	**11-Jul-19**	**05-Feb-20**	**1998**	**$109,300.91**	**$110,046.42**	**0**
FEE10335	Pre-Prototype 3 Board Schematics Design	20	11-Jul-19	08-Aug-19	11-Jul-19	08-Aug-19	163	$19,748.43	$19,748.43	0
FEE10340	Pre-Prototype 3 Board Layout Design	20	08-Aug-19	06-Sep-19	08-Aug-19	06-Sep-19	163	$21,723.27	$21,723.27	0

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE10350	Pre-Prototype 3 Board Fabrication	20	06-Sep-19	04-Oct-19	06-Sep-19	04-Oct-19	163	$9,656.66	$9,656.66	0
FEE10350M	Material for Pre-Prototype 3 Board Fabrication	20	06-Sep-19	04-Oct-19	06-Sep-19	04-Oct-19	163	$17,373.30	$17,471.02	0
FEE10355	Milestone: Pre-prototype 3 ADC test board fabrication complete	0		04-Oct-19		04-Oct-19	163	$0.00	$0.00	0
FEE10360	Pre-Prototype 3 ADC Functional Test	32	04-Oct-19	20-Nov-19	04-Oct-19	20-Nov-19	163	$21,794.27	$21,794.27	0
FEE10360M	Material for Pre-Prototype 3 ADC Functional Test	32	04-Oct-19	20-Nov-19	04-Oct-19	20-Nov-19	205	$530.45	$546.36	0
FEE10360T	Travel for Pre-Prototype 3 ADC Functional Test	32	04-Oct-19	20-Nov-19	04-Oct-19	20-Nov-19	205	$2,121.80	$2,753.67	0
FEE10365A	AVAIL: Pre-Prototype 3 ADC	0		20-Nov-19		20-Nov-19	205	$0.00	$0.00	0
FEE10370	Pre-Prototype 3 ADC Performance Evaluation	42	20-Nov-19	22-Jan-20	20-Nov-19	22-Jan-20	163	$16,352.73	$16,352.73	0
FEE10375	Milestone: Completion of Pre-Prototype 3 ATLAS-PDR	0		22-Jan-20		22-Jan-20	163	$0.00	$0.00	0
FEE10380EX	External Milestone: ATLAS PDR for FE ADC	0		05-Feb-20		05-Feb-20	I998	$0.00	$0.00	0
6.04.01.01.07 LAr FE ADC Prototype Chip Cycle		**321**	**01-Apr-20**	**05-Feb-21**	**01-Apr-20**	**07-Jul-21**	**183C**	**$611,996.85**	**$655,436.00**	**-105**
07 Prototype Chip Cycle		**321**	**01-Apr-20**	**05-Feb-21**	**01-Apr-20**	**07-Jul-21**	**183C**	**$611,996.85**	**$655,436.00**	**-105**
FEE10385	Prototype ADC Schematics Design	149	01-Apr-20	29-May-20	01-Apr-20	30-Oct-20	I960	$45,334.24	$45,525.96	-107
FEE10390	Prototype ADC Physical Layout Design	107	01-Jun-20	30-Jul-20	01-Jun-20*	30-Oct-20	113	$46,527.39	$44,378.01	-64
FEE10400	Prototype ADC Post Layout Simulation	64	31-Jul-20	28-Sep-20	31-Jul-20*	30-Oct-20	202	$43,844.79	$15,632.21	-23
FEE10385M	Material for Prototype ADC Design	42	01-Apr-20	29-May-20	02-Nov-20	31-Dec-20	I960	$4,774.05	$5,064.79	-149
FEE10386	Prototype ADC Schematics Design(2)	42			02-Nov-20	31-Dec-20	I960	$0.00	$5,816.26	
FEE10391	Prototype ADC Physical Layout Design(2)	42			02-Nov-20*	31-Dec-20	113	$0.00	$14,763.84	
FEE10401	Prototype ADC Post Layout Simulation (2)	82			02-Nov-20	01-Mar-21	202	$0.00	$49,208.37	
FEE10390T	Travel for Prototype ADC Physical Layout Design	43	01-Jun-20	30-Jul-20	04-Jan-21	04-Mar-21	I917	$2,121.80	$3,646.65	-149
FEE10410M10	Solicit Quotes	10	28-Sep-20	13-Oct-20	02-Mar-21	15-Mar-21	202	$0.00	$0.00	-105
FEE10410	Prototype ADC Submission	22	28-Sep-20	29-Oct-20	02-Mar-21	31-Mar-21	202	$23,761.97	$23,829.02	-105
FEE10410M20	Select Vendor and Place Order	5	13-Oct-20	20-Oct-20	16-Mar-21	22-Mar-21	202	$0.00	$0.00	-105
FEE10410M30	Delivery	10	20-Oct-20	03-Nov-20	23-Mar-21	05-Apr-21	202	$0.00	$0.00	-105
FEE10410M40	PMT: Closeout for Prototype ADC Submission	1	03-Nov-20	04-Nov-20	06-Apr-21	06-Apr-21	202	$378,000.00	$378,000.00	-105
FEE10415	Milestone: Prototype ADC submission to foundry	0		04-Nov-20		06-Apr-21	202	$0.00	$0.00	-105
FEE10420	Prototype ADC Fabrication	42	04-Nov-20	06-Jan-21	07-Apr-21	04-Jun-21	202	$23,377.87	$23,377.87	-105
FEE10430	Prototype ADC Packaging	22	06-Jan-21	05-Feb-21	07-Jun-21	07-Jul-21	202	$12,427.75	$12,427.75	-105
FEE10430M	Material for Prototype ADC Packaging	22	06-Jan-21	05-Feb-21	07-Jun-21	07-Jul-21	202	$31,827.00	$33,765.26	-105
FEE10435	Milestone: Prototype ADC packaging complete	0		05-Feb-21		07-Jul-21	202	$0.00	$0.00	-105
FEE10440	Milestone: Ship to UT Austin Packaged ADC Prototype	0		05-Feb-21		07-Jul-21	202	$0.00	$0.00	-105
6.04.01.01.08 LAr FE ADC Prototype Chip Test		**234**	**31-Jul-20**	**08-Apr-21**	**04-Jan-21**	**03-Dec-21**	**141**	**$224,269.70**	**$229,162.82**	**-166**
08 Prototype Chip Test		**234**	**31-Jul-20**	**08-Apr-21**	**04-Jan-21**	**03-Dec-21**	**141**	**$224,269.70**	**$229,162.82**	**-166**

Primary Baseline | Remaining Work | Milestone
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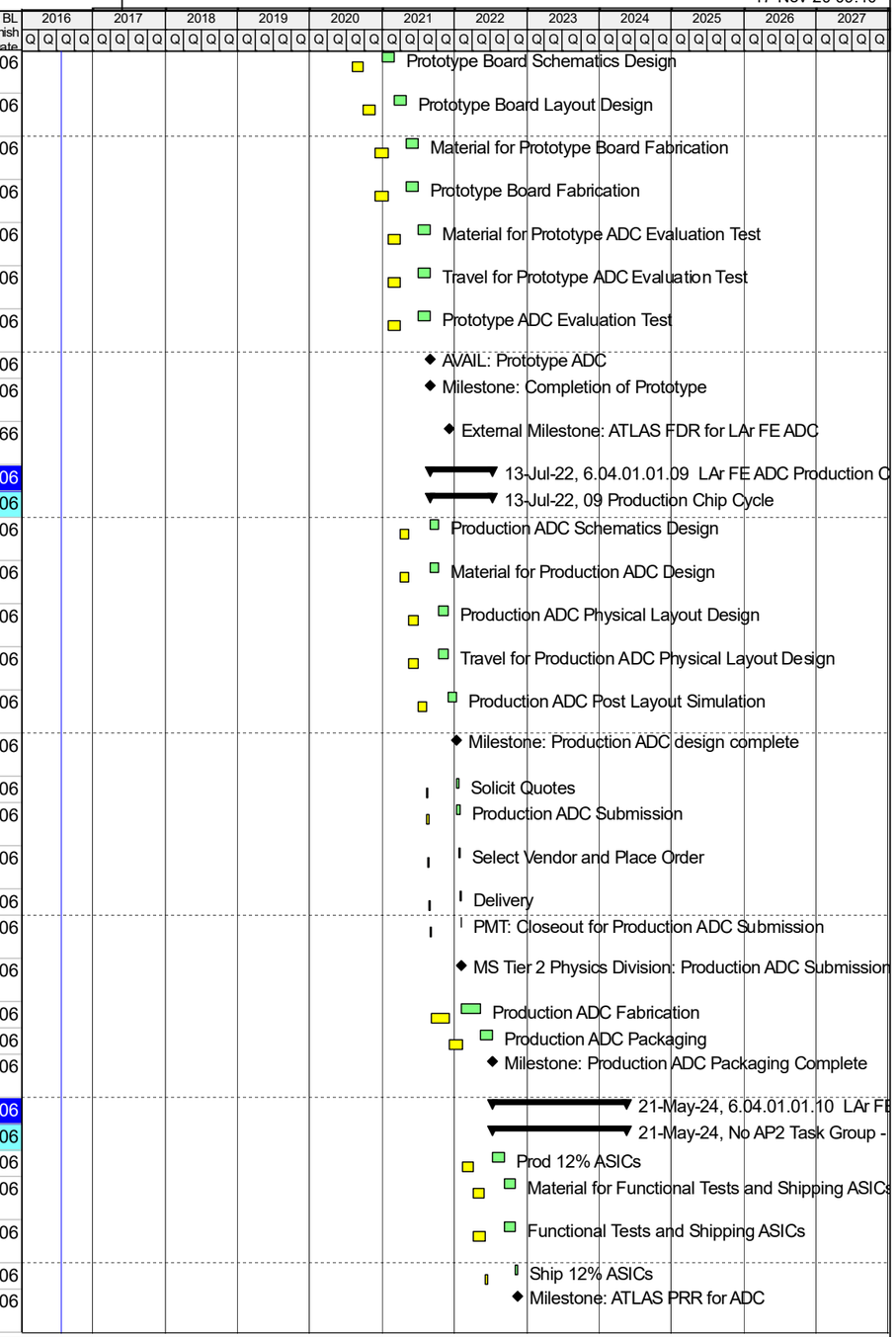
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE10445	Prototype Board Schematics Design	41	31-Jul-20	28-Sep-20	04-Jan-21	02-Mar-21	113	$42,394.65	$43,666.73	-106
FEE10450	Prototype Board Layout Design	42	28-Sep-20	27-Nov-20	02-Mar-21	29-Apr-21	113	$45,625.36	$45,692.71	-106
FEE10460M	Material for Prototype Board Fabrication	42	27-Nov-20	28-Jan-21	29-Apr-21	29-Jun-21	115	$31,192.58	$33,092.21	-106
FEE10460	Prototype Board Fabrication	44	27-Nov-20	01-Feb-21	29-Apr-21	01-Jul-21	113	$19,612.58	$19,612.58	-106
FEE10470M	Material for Prototype ADC Evaluation Test	42	01-Feb-21	01-Apr-21	01-Jul-21	31-Aug-21	206	$2,121.80	$2,251.02	-106
FEE10470T	Travel for Prototype ADC Evaluation Test	42	01-Feb-21	01-Apr-21	01-Jul-21	31-Aug-21	206	$2,121.80	$3,646.65	-106
FEE10470	Prototype ADC Evaluation Test	43	01-Feb-21	02-Apr-21	01-Jul-21	01-Sep-21	113	$81,200.93	$81,200.93	-106
FEE10475A	AVAIL: Prototype ADC	0		02-Apr-21		01-Sep-21	127	$0.00	$0.00	-106
FEE10480	Milestone: Completion of Prototype	0		02-Apr-21		01-Sep-21	205	$0.00	$0.00	-106
FEE10485EX	External Milestone: ATLAS FDR for LAr FE ADC	0		08-Apr-21		03-Dec-21	141	$0.00	$0.00	-166
6.04.01.01.09 LAr FE ADC Production Chip Cycle		**217**	**02-Apr-21**	**10-Feb-22**	**01-Sep-21**	**13-Jul-22**	**113**	**$930,571.13**	**$937,260.49**	**-106**
09 Production Chip Cycle		**217**	**02-Apr-21**	**10-Feb-22**	**01-Sep-21**	**13-Jul-22**	**113**	**$930,571.13**	**$937,260.49**	**-106**
FEE10490	Production ADC Schematics Design	30	02-Apr-21	14-May-21	01-Sep-21	15-Oct-21	113	$63,362.50	$63,979.76	-106
FEE10490M	Material for Production ADC Design	30	02-Apr-21	14-May-21	01-Sep-21	15-Oct-21	113	$4,774.05	$5,114.13	-106
FEE10500	Production ADC Physical Layout Design	32	14-May-21	30-Jun-21	15-Oct-21	01-Dec-21	113	$64,940.47	$66,887.02	-106
FEE10500T	Travel for Production ADC Physical Layout Design	32	14-May-21	30-Jun-21	15-Oct-21	01-Dec-21	113	$2,121.80	$3,755.96	-106
FEE10510	Production ADC Post Layout Simulation	30	30-Jun-21	12-Aug-21	01-Dec-21	14-Jan-22	113	$63,037.06	$64,926.56	-106
FEE10515	Milestone: Production ADC design complete	0		12-Aug-21		14-Jan-22	113	$0.00	$0.00	-106
FEE10520M10	Solicit Quotes	5	12-Aug-21	19-Aug-21	14-Jan-22	21-Jan-22	113	$0.00	$0.00	-106
FEE10520	Production ADC Submission	10	12-Aug-21	26-Aug-21	14-Jan-22	28-Jan-22	113	$5,807.45	$5,981.52	-106
FEE10520M20	Select Vendor and Place Order	5	19-Aug-21	26-Aug-21	21-Jan-22	28-Jan-22	113	$0.00	$0.00	-106
FEE10520M30	Delivery	5	26-Aug-21	02-Sep-21	28-Jan-22	04-Feb-22	113	$0.00	$0.00	-106
FEE10520M40	PMT: Closeout for Production ADC Submission	1	02-Sep-21	03-Sep-21	04-Feb-22	07-Feb-22	113	$708,616.00	$708,616.00	-106
FEE10525	MS Tier 2 Physics Division: Production ADC Submission	0		03-Sep-21		07-Feb-22	113	$0.00	$0.00	-106
FEE10530	Production ADC Fabrication	65	03-Sep-21	08-Dec-21	07-Feb-22	10-May-22	113	$10,648.84	$10,736.57	-106
FEE10535	Production ADC Packaging	44	08-Dec-21	10-Feb-22	10-May-22	13-Jul-22	113	$7,262.97	$7,262.97	-106
FEE10540	Milestone: Production ADC Packaging Complete	0		10-Feb-22		13-Jul-22	113	$0.00	$0.00	-106
6.04.01.01.10 LAr FE ADC Production		**470**	**10-Feb-22**	**20-Dec-23**	**13-Jul-22**	**21-May-24**	**349**	**$445,562.87**	**$451,679.21**	**-106**
No AP2 Task Group - Temp		**470**	**10-Feb-22**	**20-Dec-23**	**13-Jul-22**	**21-May-24**	**349**	**$445,562.87**	**$451,679.21**	**-106**
FEE10545	Prod 12% ASICs	40	10-Feb-22	08-Apr-22	13-Jul-22	08-Sep-22	113	$15,657.56	$15,657.56	-106
FEE10550M	Material for Functional Tests and Shipping ASICs	38	08-Apr-22	02-Jun-22	08-Sep-22	02-Nov-22	115	$530.45	$589.58	-106
FEE10550	Functional Tests and Shipping ASICs	40	08-Apr-22	06-Jun-22	08-Sep-22	04-Nov-22	113	$46,902.62	$47,738.43	-106
FEE10560	Ship 12% ASICs	10	06-Jun-22	20-Jun-22	04-Nov-22	18-Nov-22	113	$14,708.73	$15,150.18	-106
FEE10565	Milestone: ATLAS PRR for ADC	0		20-Jun-22		18-Nov-22	113	$0.00	$0.00	-106



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE10570	WAIT: Delivery of Full Production ADC	60	20-Jun-22	14-Sep-22	18-Nov-22	15-Feb-23	113	$0.00	$0.00	-106
FEE10580M	Material for Functional Tests and Shipping ASICs	39	14-Sep-22	09-Nov-22	15-Feb-23	12-Apr-23	167	$530.45	$597.02	-106
FEE10575	Prod 25% ASICs	40	14-Sep-22	10-Nov-22	15-Feb-23	13-Apr-23	113	$13,980.54	$14,106.42	-106
FEE10580	Functional Tests and Shipping ASICs	40	14-Sep-22	10-Nov-22	15-Feb-23	13-Apr-23	113	$49,154.74	$49,597.33	-106
FEE10590A	AVAIL: Shipped 25% ASICs	0		10-Nov-22		13-Apr-23	166	$0.00	$0.00	-106
FEE10610M	Material for Functional Tests and Shipping ASICs	39	10-Nov-22	09-Jan-23	13-Apr-23	08-Jun-23	166	$530.45	$597.02	-106
FEE10600	Prod 37% ASICs	40	10-Nov-22	10-Jan-23	13-Apr-23	09-Jun-23	166	$14,383.57	$14,383.57	-106
FEE10610	Functional Tests and Shipping ASICs	40	10-Nov-22	10-Jan-23	13-Apr-23	09-Jun-23	166	$32,709.67	$32,709.67	-106
FEE10640M	Material for Functional Tests and Shipping ASICs	37	10-Jan-23	03-Mar-23	09-Jun-23	02-Aug-23	169	$530.45	$597.02	-106
FEE10630	Prod 50% ASICs	40	10-Jan-23	08-Mar-23	09-Jun-23	07-Aug-23	166	$13,899.77	$13,899.77	-106
FEE10640	Functional Tests and Shipping ASICs	40	10-Jan-23	08-Mar-23	09-Jun-23	07-Aug-23	166	$31,257.46	$31,257.46	-106
FEE10650A	AVAIL: Shipped 50% ASICs (QTY = 6,600)	0		08-Mar-23		07-Aug-23	166	$0.00	$0.00	-106
FEE10670M	Material for Functional Tests and Shipping ASICs	39	08-Mar-23	02-May-23	07-Aug-23	02-Oct-23	167	$530.45	$597.31	-106
FEE10660	Prod 62% ASICs	40	08-Mar-23	03-May-23	07-Aug-23	03-Oct-23	166	$14,176.11	$14,193.41	-106
FEE10670	Functional Tests and Shipping ASICs	40	08-Mar-23	03-May-23	07-Aug-23	03-Oct-23	166	$31,948.72	$31,987.70	-106
FEE10690	Prod 75% ASICs	40	03-May-23	29-Jun-23	03-Oct-23	30-Nov-23	166	$14,383.57	$14,815.52	-106
FEE10700	Functional Tests and Shipping ASICs	40	03-May-23	29-Jun-23	03-Oct-23	30-Nov-23	166	$32,709.67	$33,691.98	-106
FEE10700M	Material for Functional Tests and Shipping ASICs	40	03-May-23	29-Jun-23	03-Oct-23	30-Nov-23	166	$530.45	$614.95	-106
FEE10710A	AVAIL: Shipped 75% ASICs	0		29-Jun-23		30-Nov-23	166	$0.00	$0.00	-106
FEE10730M	Material for Functional Tests and Shipping ASICs	39	29-Jun-23	24-Aug-23	30-Nov-23	26-Jan-24	166	$530.45	$614.95	-106
FEE10720	Prod 87% ASICs	40	29-Jun-23	25-Aug-23	30-Nov-23	29-Jan-24	166	$14,176.11	$14,601.83	-106
FEE10730	Functional Tests and Shipping ASICs	40	29-Jun-23	25-Aug-23	30-Nov-23	29-Jan-24	166	$31,948.72	$32,908.18	-106
FEE10750	Prod 100% ASICs	40	25-Aug-23	24-Oct-23	29-Jan-24	26-Mar-24	166	$14,341.08	$14,601.83	-106
FEE10760	Functional Tests and Shipping ASICs	40	25-Aug-23	24-Oct-23	29-Jan-24	26-Mar-24	166	$31,621.20	$32,196.15	-106
FEE10760M	Material for Functional Tests and Shipping ASICs	40	25-Aug-23	24-Oct-23	29-Jan-24	26-Mar-24	166	$530.45	$614.95	-106
FEE10770A	AVAIL: Shipped 100% ASICs	0		24-Oct-23		26-Mar-24	166	$0.00	$0.00	-106
FEE10780	Milestone: Production Complete	0		24-Oct-23		26-Mar-24	166	$0.00	$0.00	-106
FEE10790	Documentation	40	24-Oct-23	20-Dec-23	26-Mar-24	21-May-24	349	$23,359.42	$23,359.42	-106
6.04.01.01.11 LAr FE ADC Other		1389	03-Oct-16	31-Mar-22	03-Oct-16	31-Mar-22	128	$97,011.70	$99,544.83	0
Admin Adjustment		20	03-Jan-19	30-Jan-19	03-Jan-19	30-Jan-19	0	($22,756.31)	($28,672.94)	0
FEE10890M	Columbia-Austin Cost Regularization	20	03-Jan-19	30-Jan-19	03-Jan-19	30-Jan-19*	0	($22,756.31)	($28,672.94)	0
EE Student Tuition		1389	03-Oct-16	31-Mar-22	03-Oct-16	31-Mar-22	128	$119,768.00	$128,217.78	0
FEE10900M	EE Student Tuition Pre-MREFC	883	03-Oct-16	31-Mar-20	03-Oct-16	31-Mar-20	128	$76,279.00	$79,271.12	0
FEE10901M	EE Student Tuition MREFC	506	01-Apr-20	31-Mar-22	01-Apr-20	31-Mar-22	128	$43,489.00	$48,946.66	0
6.04.01.02 FE Electronics-UTAustin		2003	03-Oct-16	03-Apr-24	03-Oct-16	03-Sep-24	1031	$1,390,482.76	$1,450,484.86	-106
6.04.01.02.01 LAr FE ADC Pre-Prototype 1 Chip Cycle		256	03-Oct-16	05-Oct-17	03-Oct-16	05-Oct-17	149	$50,003.34	$50,632.96	0

Primary Baseline | Remaining Work | Milestone
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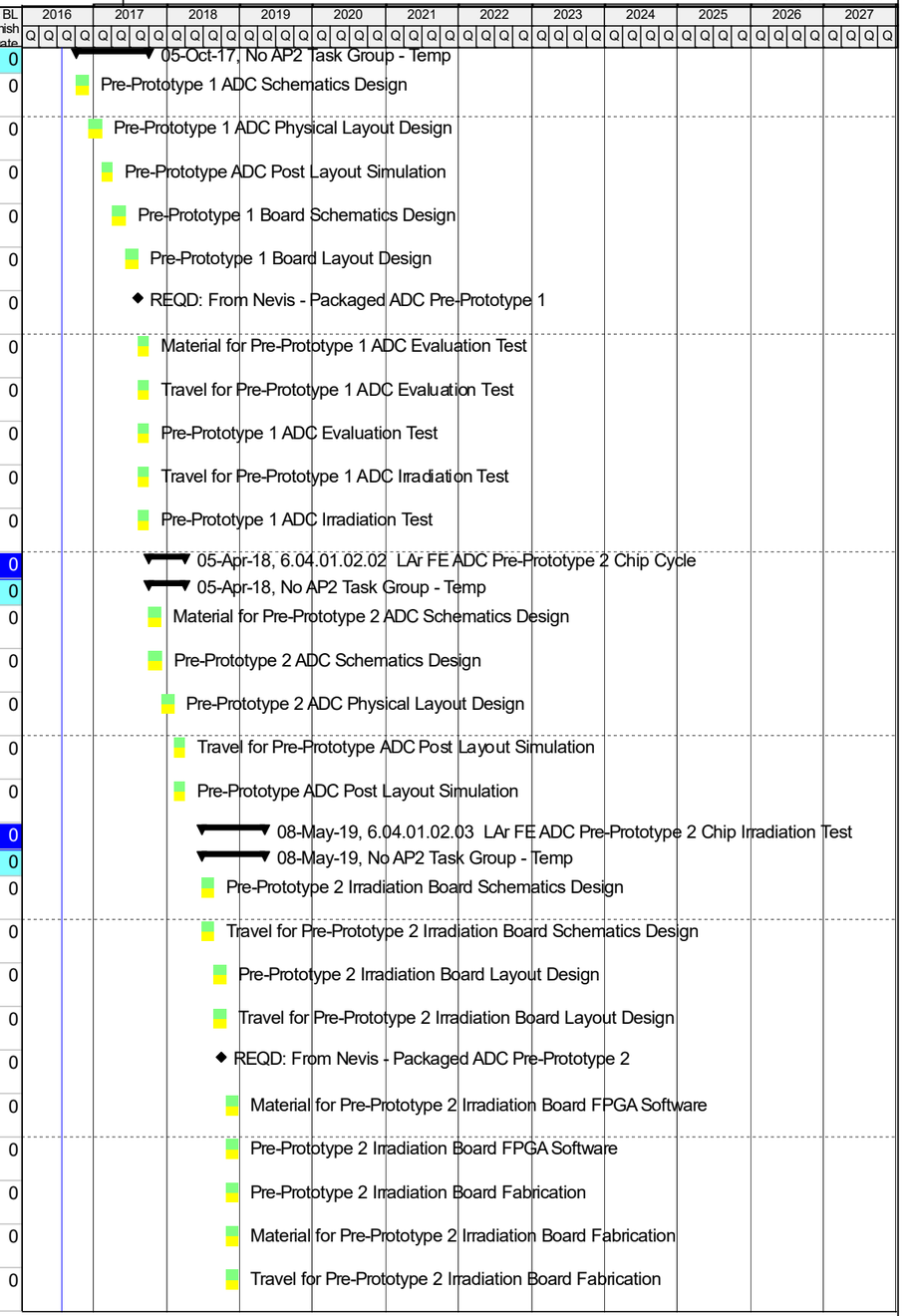
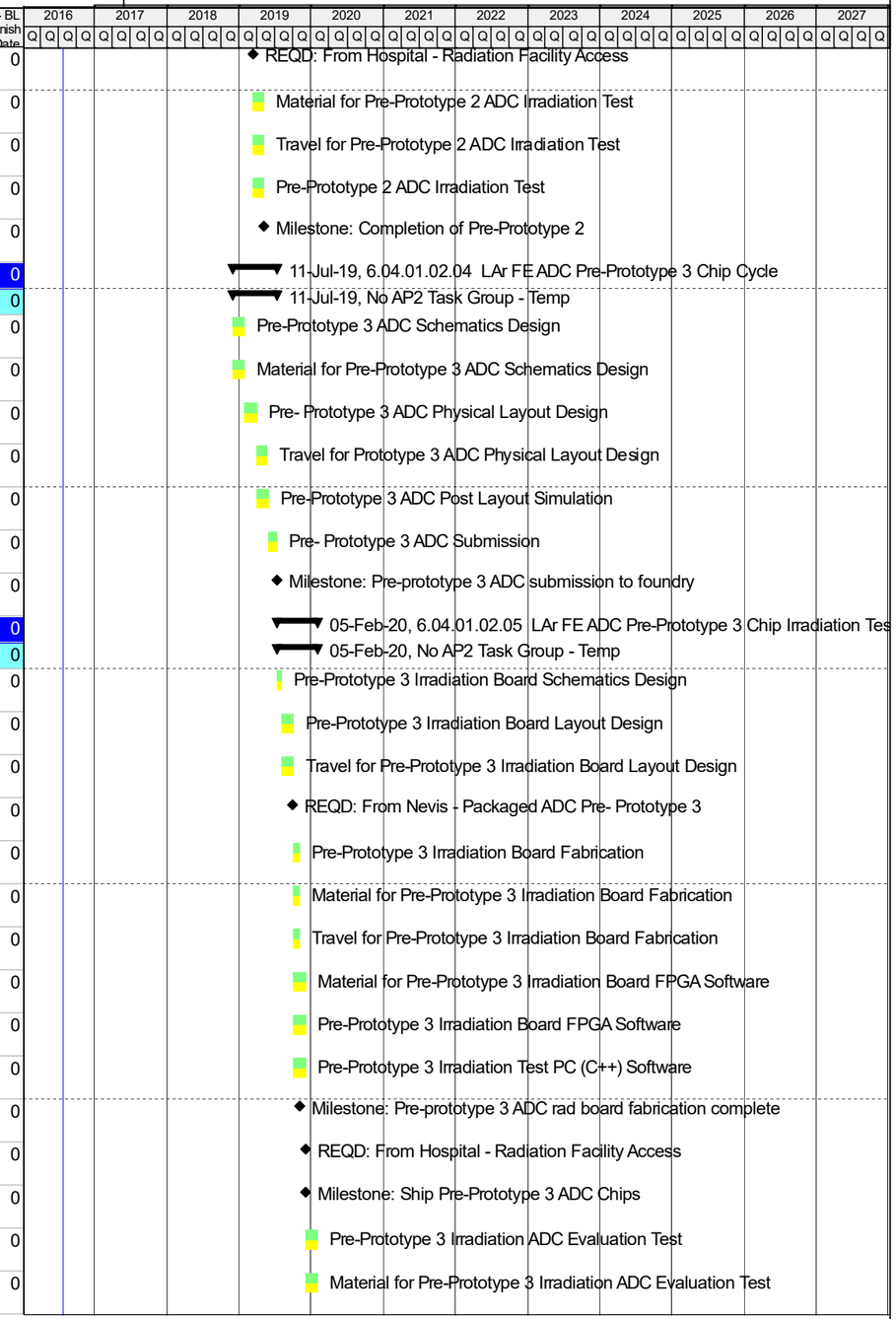
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
No AP2 Task Group - Temp		**256**	**03-Oct-16**	**05-Oct-17**	**03-Oct-16**	**05-Oct-17**	**149**	**$50,003.34**	**$50,632.96**	**0**
FEE20010	Pre-Prototype 1 ADC Schematics Design	43	03-Oct-16	02-Dec-16	03-Oct-16	02-Dec-16	149	$7,207.93	$7,207.93	0
FEE20020	Pre-Prototype 1 ADC Physical Layout Design	44	05-Dec-16	06-Feb-17	05-Dec-16	06-Feb-17	149	$7,380.73	$7,380.73	0
FEE20030	Pre-Prototype ADC Post Layout Simulation	43	06-Feb-17	07-Apr-17	06-Feb-17	07-Apr-17	149	$7,207.93	$7,207.93	0
FEE20040	Pre-Prototype 1 Board Schematics Design	43	07-Apr-17	08-Jun-17	07-Apr-17	08-Jun-17	149	$7,207.93	$7,207.93	0
FEE20050	Pre-Prototype 1 Board Layout Design	44	08-Jun-17	10-Aug-17	08-Jun-17	10-Aug-17	149	$7,380.73	$7,380.73	0
FEE20080R	REQD: From Nevis - Packaged ADC Pre-Prototype 1	0	10-Aug-17		10-Aug-17		149	$0.00	$0.00	0
FEE20100M	Material for Pre-Prototype 1 ADC Evaluation Test	37	10-Aug-17	03-Oct-17	10-Aug-17	03-Oct-17	151	$8,000.00	$8,012.16	0
FEE20110T	Travel for Pre-Prototype 1 ADC Evaluation Test	37	10-Aug-17	03-Oct-17	10-Aug-17	03-Oct-17	151	$650.00	$820.32	0
FEE20090	Pre-Prototype 1 ADC Evaluation Test	38	10-Aug-17	04-Oct-17	10-Aug-17	04-Oct-17	150	$0.00	$0.00	0
FEE20115T	Travel for Pre-Prototype 1 ADC Irradiation Test	38	10-Aug-17	04-Oct-17	10-Aug-17	04-Oct-17	150	$1,700.00	$2,147.14	0
FEE20115	Pre-Prototype 1 ADC Irradiation Test	39	10-Aug-17	05-Oct-17	10-Aug-17	05-Oct-17	149	$3,268.09	$3,268.09	0
6.04.01.02.02 LAr FE ADC Pre-Prototype 2 Chip Cycle		**125**	**05-Oct-17**	**05-Apr-18**	**05-Oct-17**	**05-Apr-18**	**149**	**$27,575.20**	**$27,815.20**	**0**
No AP2 Task Group - Temp		**125**	**05-Oct-17**	**05-Apr-18**	**05-Oct-17**	**05-Apr-18**	**149**	**$27,575.20**	**$27,815.20**	**0**
FEE20120M	Material for Pre-Prototype 2 ADC Schematics Design	40	05-Oct-17	04-Dec-17	05-Oct-17	04-Dec-17	151	$1,500.00	$1,545.00	0
FEE20120	Pre-Prototype 2 ADC Schematics Design	42	05-Oct-17	06-Dec-17	05-Oct-17	06-Dec-17	149	$8,542.87	$8,542.87	0
FEE20130	Pre-Prototype 2 ADC Physical Layout Design	42	06-Dec-17	06-Feb-18	06-Dec-17	06-Feb-18	149	$8,542.87	$8,542.87	0
FEE20140T	Travel for Pre-Prototype ADC Post Layout Simulation	40	06-Feb-18	04-Apr-18	06-Feb-18	04-Apr-18	150	$650.00	$845.00	0
FEE20140	Pre-Prototype ADC Post Layout Simulation	41	06-Feb-18	05-Apr-18	06-Feb-18	05-Apr-18	149	$8,339.47	$8,339.47	0
6.04.01.02.03 LAr FE ADC Pre-Prototype 2 Chip Irradiation Test		**216**	**29-Jun-18**	**08-May-19**	**29-Jun-18**	**08-May-19**	**176**	**$68,371.92**	**$69,958.98**	**0**
No AP2 Task Group - Temp		**216**	**29-Jun-18**	**08-May-19**	**29-Jun-18**	**08-May-19**	**176**	**$68,371.92**	**$69,958.98**	**0**
FEE20150	Pre-Prototype 2 Irradiation Board Schematics Design	41	29-Jun-18	28-Aug-18	29-Jun-18	28-Aug-18	225	$8,339.47	$8,339.47	0
FEE20150T	Travel for Pre-Prototype 2 Irradiation Board Schematics Design	41	29-Jun-18	28-Aug-18	29-Jun-18	28-Aug-18	225	$650.00	$845.00	0
FEE20160	Pre-Prototype 2 Irradiation Board Layout Design	41	28-Aug-18	26-Oct-18	28-Aug-18	26-Oct-18	225	$8,454.22	$8,454.22	0
FEE20160T	Travel for Pre-Prototype 2 Irradiation Board Layout Design	41	28-Aug-18	26-Oct-18	28-Aug-18	26-Oct-18	225	$650.00	$855.98	0
FEE20190R	REQD: From Nevis - Packaged ADC Pre-Prototype 2	0	01-Oct-18		01-Oct-18		285	$0.00	$0.00	0
FEE20180M	Material for Pre-Prototype 2 Irradiation Board FPGA Software	41	26-Oct-18	26-Dec-18	26-Oct-18	26-Dec-18	226	$530.45	$530.45	0
FEE20180	Pre-Prototype 2 Irradiation Board FPGA Software	42	26-Oct-18	27-Dec-18	26-Oct-18	27-Dec-18	225	$16,229.68	$16,229.68	0
FEE20170	Pre-Prototype 2 Irradiation Board Fabrication	42	26-Oct-18	27-Dec-18	26-Oct-18	27-Dec-18	225	$8,799.13	$8,799.13	0
FEE20170M	Material for Pre-Prototype 2 Irradiation Board Fabrication	42	26-Oct-18	27-Dec-18	26-Oct-18	27-Dec-18	225	$11,669.90	$11,669.90	0
FEE20170T	Travel for Pre-Prototype 2 Irradiation Board Fabrication	42	26-Oct-18	27-Dec-18	26-Oct-18	27-Dec-18	225	$2,758.34	$3,475.51	0



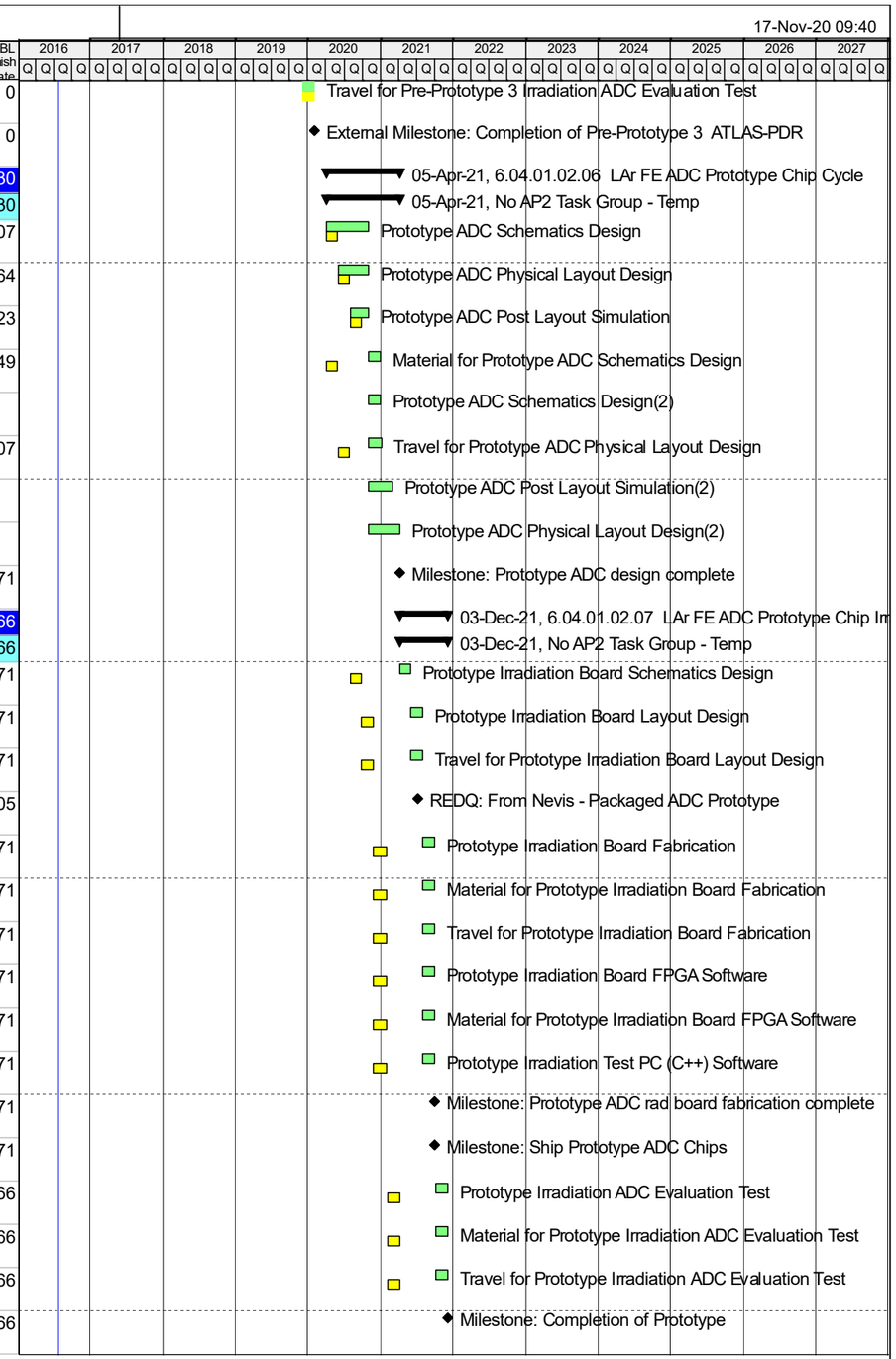
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE20200R	REQD: From Hospital - Radiation Facility Access	0	11-Mar-19		11-Mar-19*		0	$0.00	$0.00	0
FEE20210M	Material for Pre-Prototype 2 ADC Irradiation Test	42	11-Mar-19	07-May-19	11-Mar-19	07-May-19	177	$8,487.20	$8,487.20	0
FEE20210T	Travel for Pre-Prototype 2 ADC Irradiation Test	42	11-Mar-19	07-May-19	11-Mar-19	07-May-19	177	$1,803.53	$2,272.45	0
FEE20210	Pre-Prototype 2 ADC Irradiation Test	43	11-Mar-19	08-May-19	11-Mar-19	08-May-19	176	$0.00	$0.00	0
FEE20220	Milestone: Completion of Pre-Prototype 2	0		08-May-19		08-May-19	176	$0.00	$0.00	0
6.04.01.02.04 LAr FE ADC Pre-Prototype 3 Chip Cycle		**156**	**28-Nov-18**	**11-Jul-19**	**28-Nov-18**	**11-Jul-19**	**1998**	**$75,988.22**	**$76,705.39**	**0**
No AP2 Task Group - Temp		**156**	**28-Nov-18**	**11-Jul-19**	**28-Nov-18**	**11-Jul-19**	**1998**	**$75,988.22**	**$76,705.39**	**0**
FEE20250	Pre-Prototype 3 ADC Schematics Design	43	28-Nov-18	30-Jan-19	28-Nov-18	30-Jan-19	163	$15,961.02	$15,961.02	0
FEE20250M	Material for Pre-Prototype 3 ADC Schematics Design	43	28-Nov-18	30-Jan-19	28-Nov-18	30-Jan-19	163	$1,591.35	$1,591.35	0
FEE20260	Pre- Prototype 3 ADC Physical Layout Design	42	30-Jan-19	01-Apr-19	30-Jan-19	01-Apr-19	163	$21,130.65	$21,130.65	0
FEE20270T	Travel for Prototype 3 ADC Physical Layout Design	39	01-Apr-19	24-May-19	01-Apr-19	24-May-19	164	$2,758.34	$3,475.51	0
FEE20270	Pre-Prototype 3 ADC Post Layout Simulation	40	01-Apr-19	28-May-19	01-Apr-19	28-May-19	163	$19,480.44	$19,480.44	0
FEE20275	Pre- Prototype 3 ADC Submission	31	28-May-19	11-Jul-19	28-May-19	11-Jul-19	1998	$15,066.43	$15,066.43	0
FEE20280	Milestone: Pre-prototype 3 ADC submission to foundry	0		11-Jul-19		11-Jul-19	1998	$0.00	$0.00	0
6.04.01.02.05 LAr FE ADC Pre-Prototype 3 Chip Irradiation Test		**144**	**11-Jul-19**	**05-Feb-20**	**11-Jul-19**	**05-Feb-20**	**1998**	**$104,298.92**	**$106,517.27**	**0**
No AP2 Task Group - Temp		**144**	**11-Jul-19**	**05-Feb-20**	**11-Jul-19**	**05-Feb-20**	**1998**	**$104,298.92**	**$106,517.27**	**0**
FEE20290	Pre-Prototype 3 Irradiation Board Schematics Design	20	11-Jul-19	08-Aug-19	11-Jul-19	08-Aug-19	1998	$8,655.83	$8,655.83	0
FEE20300	Pre-Prototype 3 Irradiation Board Layout Design	40	08-Aug-19	04-Oct-19	08-Aug-19	04-Oct-19	1998	$16,989.38	$16,989.38	0
FEE20300T	Travel for Pre-Prototype 3 Irradiation Board Layout Design	40	08-Aug-19	04-Oct-19	08-Aug-19	04-Oct-19	2020	$689.59	$871.40	0
FEE20325R	REQD: From Nevis - Packaged ADC Pre- Prototype 3	0	27-Sep-19		27-Sep-19		2045	$0.00	$0.00	0
FEE20310	Pre-Prototype 3 Irradiation Board Fabrication	20	04-Oct-19	04-Nov-19	04-Oct-19	04-Nov-19	2020	$4,315.66	$4,315.66	0
FEE20310M	Material for Pre-Prototype 3 Irradiation Board Fabrication	20	04-Oct-19	04-Nov-19	04-Oct-19	04-Nov-19	2020	$12,946.16	$13,334.55	0
FEE20310T	Travel for Pre-Prototype 3 Irradiation Board Fabrication	20	04-Oct-19	04-Nov-19	04-Oct-19	04-Nov-19	2020	$2,758.34	$3,579.77	0
FEE20320M	Material for Pre-Prototype 3 Irradiation Board FPGA Software	41	04-Oct-19	04-Dec-19	04-Oct-19	04-Dec-19	1999	$530.45	$546.36	0
FEE20320	Pre-Prototype 3 Irradiation Board FPGA Software	42	04-Oct-19	05-Dec-19	04-Oct-19	05-Dec-19	1998	$14,676.02	$14,676.02	0
FEE20330	Pre-Prototype 3 Irradiation Test PC (C++) Software	42	04-Oct-19	05-Dec-19	04-Oct-19	05-Dec-19	1998	$11,034.67	$11,034.67	0
FEE20315	Milestone: Pre-prototype 3 ADC rad board fabrication complete	0		04-Nov-19		04-Nov-19	2020	$0.00	$0.00	0
FEE20345R	REQD: From Hospital - Radiation Facility Access	0	05-Dec-19		05-Dec-19*		0	$0.00	$0.00	0
FEE20340	Milestone: Ship Pre-Prototype 3 ADC Chips	0		05-Dec-19		05-Dec-19	1998	$0.00	$0.00	0
FEE20350	Pre-Prototype 3 Irradiation ADC Evaluation Test	42	05-Dec-19	05-Feb-20	05-Dec-19	05-Feb-20	1998	$20,775.55	$20,775.55	0
FEE20350M	Material for Pre-Prototype 3 Irradiation ADC Evaluation Test	42	05-Dec-19	05-Feb-20	05-Dec-19	05-Feb-20	1998	$9,123.74	$9,397.45	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE20350T	Travel for Pre-Prototype 3 Irradiation ADC Evaluation Test	42	05-Dec-19	05-Feb-20	05-Dec-19	05-Feb-20	1998	$1,803.53	$2,340.62	0
FEE20360EX	External Milestone: Completion of Pre-Prototype 3 ATLAS-PDR	0		05-Feb-20		05-Feb-20	1998	$0.00	$0.00	0
6.04.01.02.06 LAr FE ADC Prototype Chip Cycle		**256**	**01-Apr-20**	**28-Sep-20**	**01-Apr-20**	**05-Apr-21**	**1895**	**$63,511.46**	**$80,240.91**	**-130**
No AP2 Task Group - Temp		**256**	**01-Apr-20**	**28-Sep-20**	**01-Apr-20**	**05-Apr-21**	**1895**	**$63,511.46**	**$80,240.91**	**-130**
FEE20410	Prototype ADC Schematics Design	149	01-Apr-20	29-May-20	01-Apr-20	30-Oct-20	1960	$9,062.89	$9,101.24	-107
FEE20420	Prototype ADC Physical Layout Design	107	01-Jun-20	30-Jul-20	01-Jun-20*	30-Oct-20	141	$40,820.20	$37,506.06	-64
FEE20430	Prototype ADC Post Layout Simulation	64	31-Jul-20	28-Sep-20	31-Jul-20*	30-Oct-20	284	$9,278.68	$3,295.87	-23
FEE20410M	Material for Prototype ADC Schematics Design	42	01-Apr-20	29-May-20	02-Nov-20	31-Dec-20	1960	$1,591.35	$1,688.26	-149
FEE20411	Prototype ADC Schematics Design(2)	42			02-Nov-20	31-Dec-20	1960	$0.00	$694.57	
FEE20420T	Travel for Prototype ADC Physical Layout Design	43	01-Jun-20	30-Jul-20	02-Nov-20	04-Jan-21	205	$2,758.34	$3,687.07	-107
FEE20431	Prototype ADC Post Layout Simulation(2)	82			02-Nov-20*	01-Mar-21	1920	$0.00	$10,557.39	
FEE20421	Prototype ADC Physical Layout Design(2)	107			02-Nov-20*	05-Apr-21	141	$0.00	$13,710.45	
FEE20440	Milestone: Prototype ADC design complete	0		30-Jul-20		05-Apr-21	141	$0.00	$0.00	-171
6.04.01.02.07 LAr FE ADC Prototype Chip Irradiation Test		**169**	**31-Jul-20**	**08-Apr-21**	**06-Apr-21**	**03-Dec-21**	**141**	**$223,779.35**	**$230,940.04**	**-166**
No AP2 Task Group - Temp		**169**	**31-Jul-20**	**08-Apr-21**	**06-Apr-21**	**03-Dec-21**	**141**	**$223,779.35**	**$230,940.04**	**-166**
FEE20500	Prototype Irradiation Board Schematics Design	40	31-Jul-20	25-Sep-20	06-Apr-21	01-Jun-21	141	$28,502.64	$29,357.72	-171
FEE20510	Prototype Irradiation Board Layout Design	42	28-Sep-20	25-Nov-20	02-Jun-21	30-Jul-21	141	$38,598.41	$38,678.89	-171
FEE20510T	Travel for Prototype Irradiation Board Layout Design	42	28-Sep-20	25-Nov-20	02-Jun-21	30-Jul-21	141	$689.59	$921.77	-171
FEE20550R	REDQ: From Nevis - Packaged ADC Prototype	0	05-Feb-21		08-Jul-21		202	$0.00	$0.00	-105
FEE20520	Prototype Irradiation Board Fabrication	44	27-Nov-20	29-Jan-21	02-Aug-21	01-Oct-21	141	$8,307.00	$8,312.67	-171
FEE20520M	Material for Prototype Irradiation Board Fabrication	44	27-Nov-20	29-Jan-21	02-Aug-21	01-Oct-21	141	$12,946.16	$13,743.94	-171
FEE20520T	Travel for Prototype Irradiation Board Fabrication	44	27-Nov-20	29-Jan-21	02-Aug-21	01-Oct-21	141	$2,758.34	$3,689.59	-171
FEE20540	Prototype Irradiation Board FPGA Software	44	27-Nov-20	29-Jan-21	02-Aug-21	01-Oct-21	141	$32,271.91	$32,293.89	-171
FEE20540M	Material for Prototype Irradiation Board FPGA Software	44	27-Nov-20	29-Jan-21	02-Aug-21	01-Oct-21	141	$530.45	$563.14	-171
FEE20560	Prototype Irradiation Test PC (C++) Software	44	27-Nov-20	29-Jan-21	02-Aug-21	01-Oct-21	141	$32,271.91	$32,293.89	-171
FEE20530	Milestone: Prototype ADC rad board fabrication complete	0		29-Jan-21		01-Oct-21	141	$0.00	$0.00	-171
FEE20570	Milestone: Ship Prototype ADC Chips	0		29-Jan-21		01-Oct-21	141	$0.00	$0.00	-171
FEE20580	Prototype Irradiation ADC Evaluation Test	43	05-Feb-21	08-Apr-21	04-Oct-21	03-Dec-21	141	$40,384.43	$41,595.37	-166
FEE20580M	Material for Prototype Irradiation ADC Evaluation Test	43	05-Feb-21	08-Apr-21	04-Oct-21	03-Dec-21	141	$24,715.00	$27,006.08	-166
FEE20580T	Travel for Prototype Irradiation ADC Evaluation Test	43	05-Feb-21	08-Apr-21	04-Oct-21	03-Dec-21	141	$1,803.53	$2,483.10	-166
FEE20590	Milestone: Completion of Prototype	0		08-Apr-21		03-Dec-21	141	$0.00	$0.00	-166

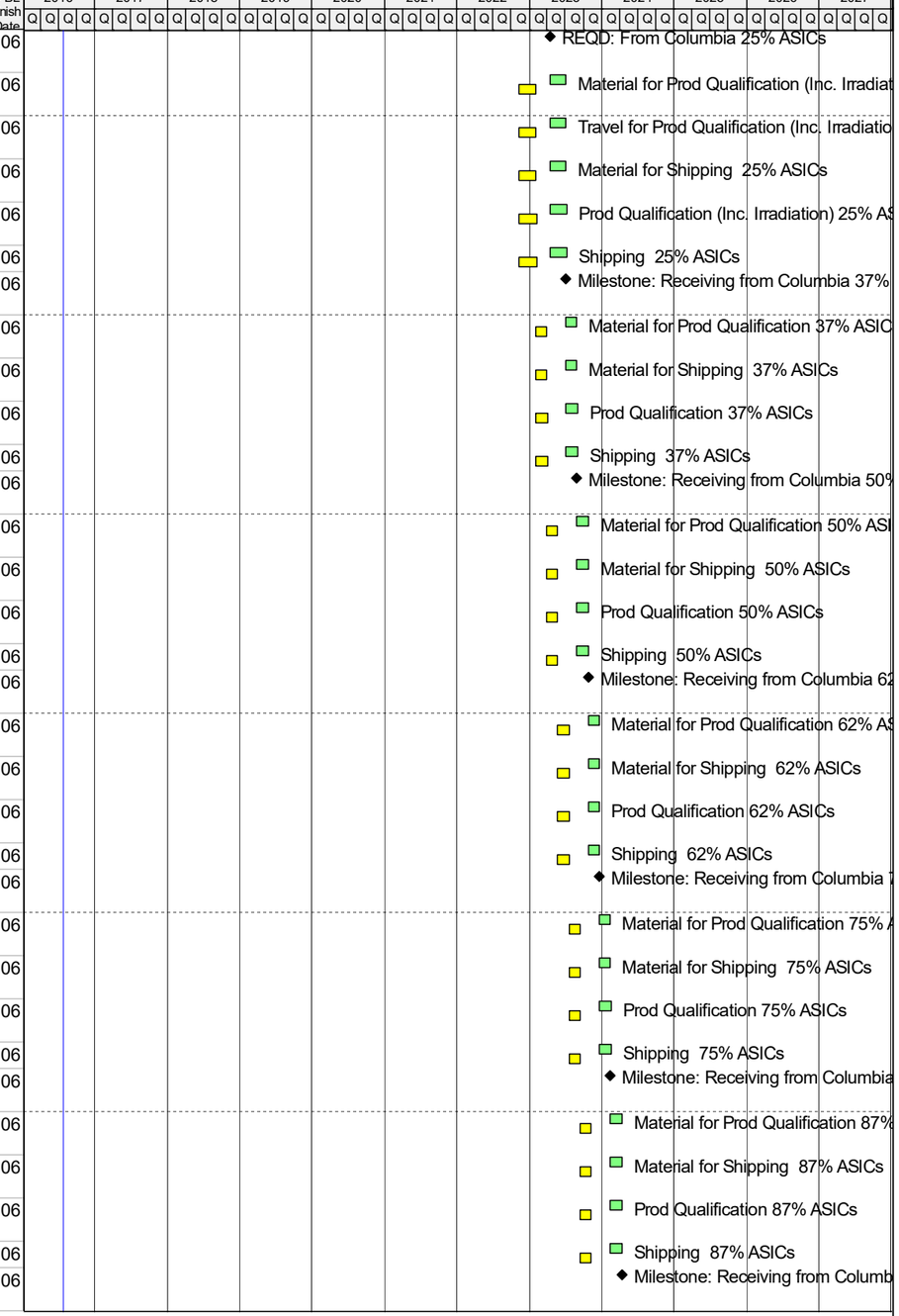


Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE20595EX	External Milestone: ATLAS FRR for FE ADC	0		08-Apr-21		03-Dec-21	141	$0.00	$0.00	-166
6.04.01.02.08 LAr FE ADC Production Chip Cycle		**62**	**02-Apr-21**	**30-Jun-21**	**01-Sep-21**	**01-Dec-21**	**157**	**$81,108.90**	**$83,659.82**	**-106**
No AP2 Task Group - Temp		**62**	**02-Apr-21**	**30-Jun-21**	**01-Sep-21**	**01-Dec-21**	**157**	**$81,108.90**	**$83,659.82**	**-106**
FEE20600	Production ADC Schematics Design	30	02-Apr-21	14-May-21	01-Sep-21	15-Oct-21	143	$3,778.43	$3,815.31	-106
FEE20610	Production ADC Physical Layout Design	32	02-Apr-21	18-May-21	01-Sep-21	19-Oct-21	143	$36,432.90	$36,833.97	-106
FEE20610T	Travel for Production ADC Physical Layout Design	32	02-Apr-21	18-May-21	01-Sep-21	19-Oct-21	143	$2,758.34	$3,727.69	-106
FEE20620	Production ADC Post Layout Simulation	30	18-May-21	30-Jun-21	19-Oct-21	01-Dec-21	143	$38,139.23	$39,282.86	-106
FEE20630	Milestone: Production ADC design complete	0		30-Jun-21		01-Dec-21	157	$0.00	$0.00	-106
6.04.01.02.09 LAr FE ADC Production Qualification Test		**182**	**30-Jun-21**	**22-Mar-22**	**01-Dec-21**	**19-Aug-22**	**157**	**$200,394.68**	**$206,295.94**	**-106**
No AP2 Task Group - Temp		**182**	**30-Jun-21**	**22-Mar-22**	**01-Dec-21**	**19-Aug-22**	**157**	**$200,394.68**	**$206,295.94**	**-106**
FEE20650T	Travel for Batch Qualification Evaluation Board Schematics Design	43	30-Jun-21	31-Aug-21	01-Dec-21	02-Feb-22	158	$689.59	$949.42	-106
FEE20650	Batch Qualification Evaluation Board Schematics Design	44	30-Jun-21	01-Sep-21	01-Dec-21	03-Feb-22	157	$25,684.18	$26,454.50	-106
FEE20660T	Travel for Batch Qualification Board Layout Design	38	01-Sep-21	27-Oct-21	03-Feb-22	30-Mar-22	211	$689.59	$949.42	-106
FEE20660	Batch Qualification Board Layout Design	46	01-Sep-21	08-Nov-21	03-Feb-22	11-Apr-22	157	$48,065.77	$48,693.62	-106
FEE20670M	Material for Batch Qualification Irradiation Board Fabrication	44	08-Nov-21	12-Jan-22	11-Apr-22	13-Jun-22	204	$31,228.65	$34,123.55	-106
FEE20670T	Travel for Batch Qualification Irradiation Board Fabrication	44	08-Nov-21	12-Jan-22	11-Apr-22	13-Jun-22	204	$2,758.34	$3,797.68	-106
FEE20670	Batch Qualification Irradiation Board Fabrication	46	08-Nov-21	14-Jan-22	11-Apr-22	15-Jun-22	203	$8,928.47	$8,928.47	-106
FEE20680	Batch Qualification Irradiation Board FPGA Software	46	08-Nov-21	14-Jan-22	11-Apr-22	15-Jun-22	157	$40,909.82	$40,909.82	-106
FEE20675	Milestone: ADC Batch testing board fabrication complete	0		14-Jan-22		15-Jun-22	203	$0.00	$0.00	-106
FEE20690M	Material for Batch Qualification Irradiation Test PC (C++) Software	44	14-Jan-22	18-Mar-22	15-Jun-22	17-Aug-22	159	$530.45	$579.62	-106
FEE20690	Batch Qualification Irradiation Test PC (C++) Software	46	14-Jan-22	22-Mar-22	15-Jun-22	19-Aug-22	157	$40,909.82	$40,909.82	-106
FEE20695	Milestone: ADC Batch qualification setup complete	0		22-Mar-22		19-Aug-22	157	$0.00	$0.00	-106
6.04.01.02.10 LAr FE ADC Production Evaluation		**502**	**08-Apr-22**	**03-Apr-24**	**08-Sep-22**	**03-Sep-24**	**276**	**$405,797.47**	**$417,568.72**	**-106**
No AP2 Task Group - Temp		**502**	**08-Apr-22**	**03-Apr-24**	**08-Sep-22**	**03-Sep-24**	**276**	**$405,797.47**	**$417,568.72**	**-106**
FEE20700R	REQD: From Columbia 12% ASICs	0	08-Apr-22		08-Sep-22		143	$0.00	$0.00	-106
FEE20710M	Material for Prod Qualification (Inc. Irradiation) 12% ASICs	58	08-Apr-22	30-Jun-22	08-Sep-22	01-Dec-22	205	$24,715.00	$27,589.61	-106
FEE20710T	Travel for Prod Qualification (Inc. Irradiation) 12% ASICs	58	08-Apr-22	30-Jun-22	08-Sep-22	01-Dec-22	205	$1,803.53	$2,536.72	-106
FEE20720M	Material for Shipping 12% ASICs	58	08-Apr-22	30-Jun-22	08-Sep-22	01-Dec-22	205	$1,060.90	$1,184.29	-106
FEE20710	Prod Qualification (Inc. Irradiation) 12% ASICs	60	08-Apr-22	05-Jul-22	08-Sep-22	05-Dec-22	143	$53,360.64	$54,528.59	-106
FEE20720	Shipping 12% ASICs	60	08-Apr-22	05-Jul-22	08-Sep-22	05-Dec-22	143	$1,778.69	$1,817.62	-106
FEE20740	Milestone: ATLAS PRR for ADC	0		05-Jul-22		05-Dec-22	143	$0.00	$0.00	-106
FEE20745	WAIT: Delivery of Full Production ADC	60	05-Jul-22	28-Sep-22	05-Dec-22	02-Mar-23	143	$0.00	$0.00	-106

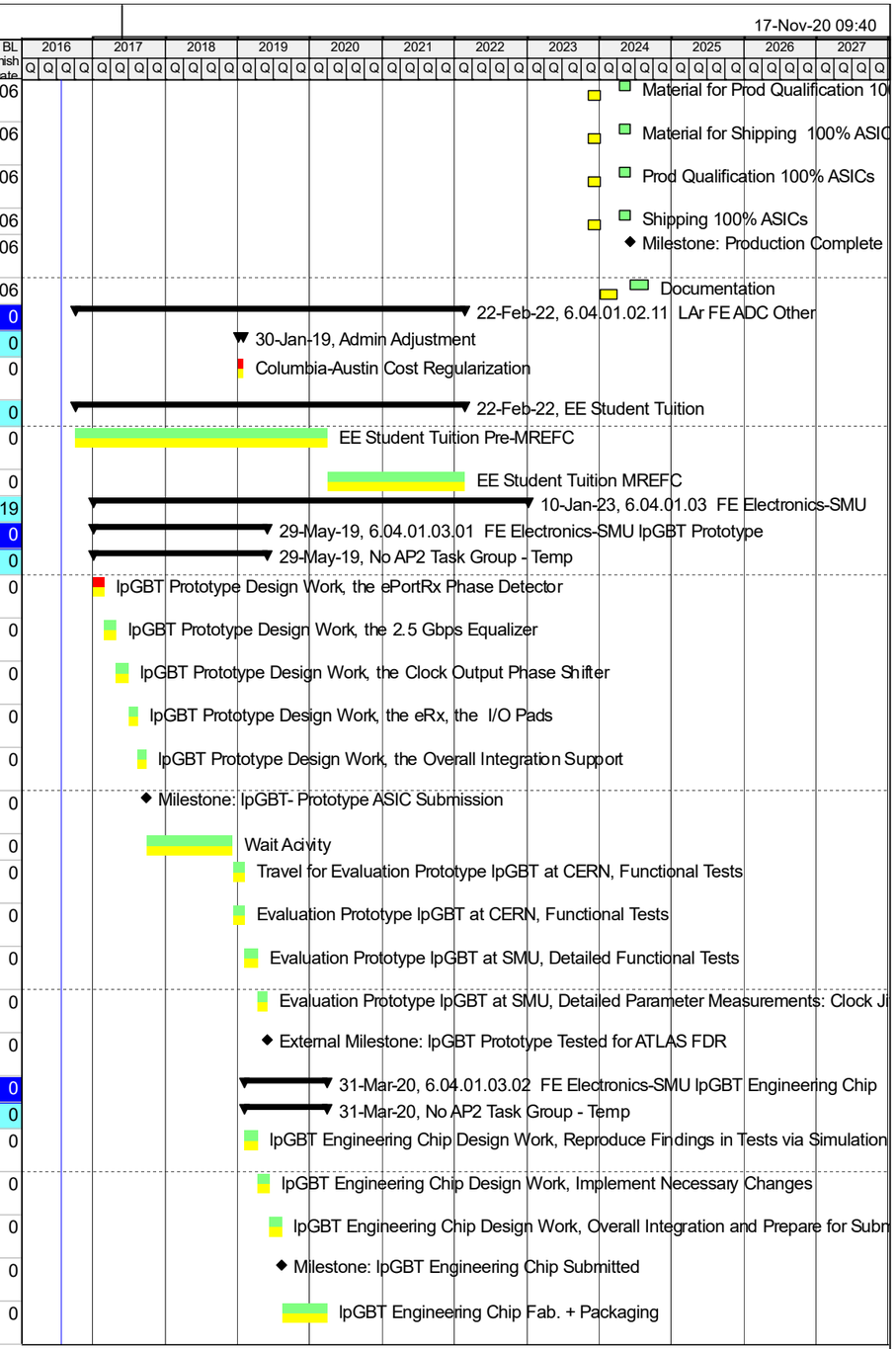
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE20730R	REQD: From Columbia 25% ASICs	0	10-Nov-22		13-Apr-23		113	$0.00	$0.00	-106
FEE20750M	Material for Prod Qualification (Inc. Irradiation) 25% ASICs	58	10-Nov-22	03-Feb-23	13-Apr-23	06-Jul-23	113	$14,428.24	$16,238.98	-106
FEE20750T	Travel for Prod Qualification (Inc. Irradiation) 25% ASICs	58	10-Nov-22	03-Feb-23	13-Apr-23	06-Jul-23	113	$1,803.53	$2,557.59	-106
FEE20755M	Material for Shipping 25% ASICs	58	10-Nov-22	03-Feb-23	13-Apr-23	06-Jul-23	113	$1,060.90	$1,194.04	-106
FEE20750	Prod Qualification (Inc. Irradiation) 25% ASICs	60	10-Nov-22	07-Feb-23	13-Apr-23	10-Jul-23	113	$46,718.04	$46,718.04	-106
FEE20755	Shipping 25% ASICs	60	10-Nov-22	07-Feb-23	13-Apr-23	10-Jul-23	113	$1,832.08	$1,832.08	-106
FEE20760	Milestone: Receiving from Columbia 37% ASICs	0		03-Feb-23		06-Jul-23	113	$0.00	$0.00	-106
FEE20770M	Material for Prod Qualification 37% ASICs	38	03-Feb-23	30-Mar-23	06-Jul-23	29-Aug-23	113	$530.45	$597.02	-106
FEE20780M	Material for Shipping 37% ASICs	38	03-Feb-23	30-Mar-23	06-Jul-23	29-Aug-23	113	$1,060.90	$1,194.04	-106
FEE20770	Prod Qualification 37% ASICs	40	03-Feb-23	03-Apr-23	06-Jul-23	31-Aug-23	113	$31,145.36	$31,145.36	-106
FEE20780	Shipping 37% ASICs	40	03-Feb-23	03-Apr-23	06-Jul-23	31-Aug-23	113	$1,832.08	$1,832.08	-106
FEE20790	Milestone: Receiving from Columbia 50% ASICs	0		30-Mar-23		29-Aug-23	113	$0.00	$0.00	-106
FEE20800M	Material for Prod Qualification 50% ASICs	39	30-Mar-23	24-May-23	29-Aug-23	25-Oct-23	113	$530.45	$604.72	-106
FEE20810M	Material for Shipping 50% ASICs	39	30-Mar-23	24-May-23	29-Aug-23	25-Oct-23	113	$1,060.90	$1,209.44	-106
FEE20800	Prod Qualification 50% ASICs	40	30-Mar-23	25-May-23	29-Aug-23	26-Oct-23	113	$31,145.36	$31,560.41	-106
FEE20810	Shipping 50% ASICs	40	30-Mar-23	25-May-23	29-Aug-23	26-Oct-23	113	$1,832.08	$1,856.49	-106
FEE20820	Milestone: Receiving from Columbia 62% ASICs	0		24-May-23		25-Oct-23	113	$0.00	$0.00	-106
FEE20830M	Material for Prod Qualification 62% ASICs	39	24-May-23	20-Jul-23	25-Oct-23	20-Dec-23	113	$530.45	$614.95	-106
FEE20840M	Material for Shipping 62% ASICs	39	24-May-23	20-Jul-23	25-Oct-23	20-Dec-23	113	$1,060.90	$1,229.90	-106
FEE20830	Prod Qualification 62% ASICs	40	24-May-23	21-Jul-23	25-Oct-23	21-Dec-23	113	$31,145.36	$32,080.69	-106
FEE20840	Shipping 62% ASICs	40	24-May-23	21-Jul-23	25-Oct-23	21-Dec-23	113	$1,832.08	$1,887.10	-106
FEE20850	Milestone: Receiving from Columbia 75% ASICs	0		20-Jul-23		20-Dec-23	113	$0.00	$0.00	-106
FEE20860M	Material for Prod Qualification 75% ASICs	39	20-Jul-23	14-Sep-23	20-Dec-23	15-Feb-24	113	$530.45	$614.95	-106
FEE20870M	Material for Shipping 75% ASICs	39	20-Jul-23	14-Sep-23	20-Dec-23	15-Feb-24	113	$1,060.90	$1,229.90	-106
FEE20860	Prod Qualification 75% ASICs	40	20-Jul-23	15-Sep-23	20-Dec-23	16-Feb-24	113	$31,145.36	$32,080.69	-106
FEE20870	Shipping 75% ASICs	40	20-Jul-23	15-Sep-23	20-Dec-23	16-Feb-24	113	$1,832.08	$1,887.10	-106
FEE20880	Milestone: Receiving from Columbia 87% ASICs	0	14-Sep-23		15-Feb-24		113	$0.00	$0.00	-106
FEE20890M	Material for Prod Qualification 87% ASICs	39	14-Sep-23	09-Nov-23	15-Feb-24	11-Apr-24	113	$530.45	$614.95	-106
FEE20900M	Material for Shipping 87% ASICs	39	14-Sep-23	09-Nov-23	15-Feb-24	11-Apr-24	113	$1,060.90	$1,229.90	-106
FEE20890	Prod Qualification 87% ASICs	40	14-Sep-23	10-Nov-23	15-Feb-24	12-Apr-24	113	$31,817.63	$32,080.69	-106
FEE20900	Shipping 87% ASICs	40	14-Sep-23	10-Nov-23	15-Feb-24	12-Apr-24	113	$1,871.63	$1,887.10	-106
FEE20910	Milestone: Receiving from Columbia 100% ASICs	0		09-Nov-23		11-Apr-24	113	$0.00	$0.00	-106



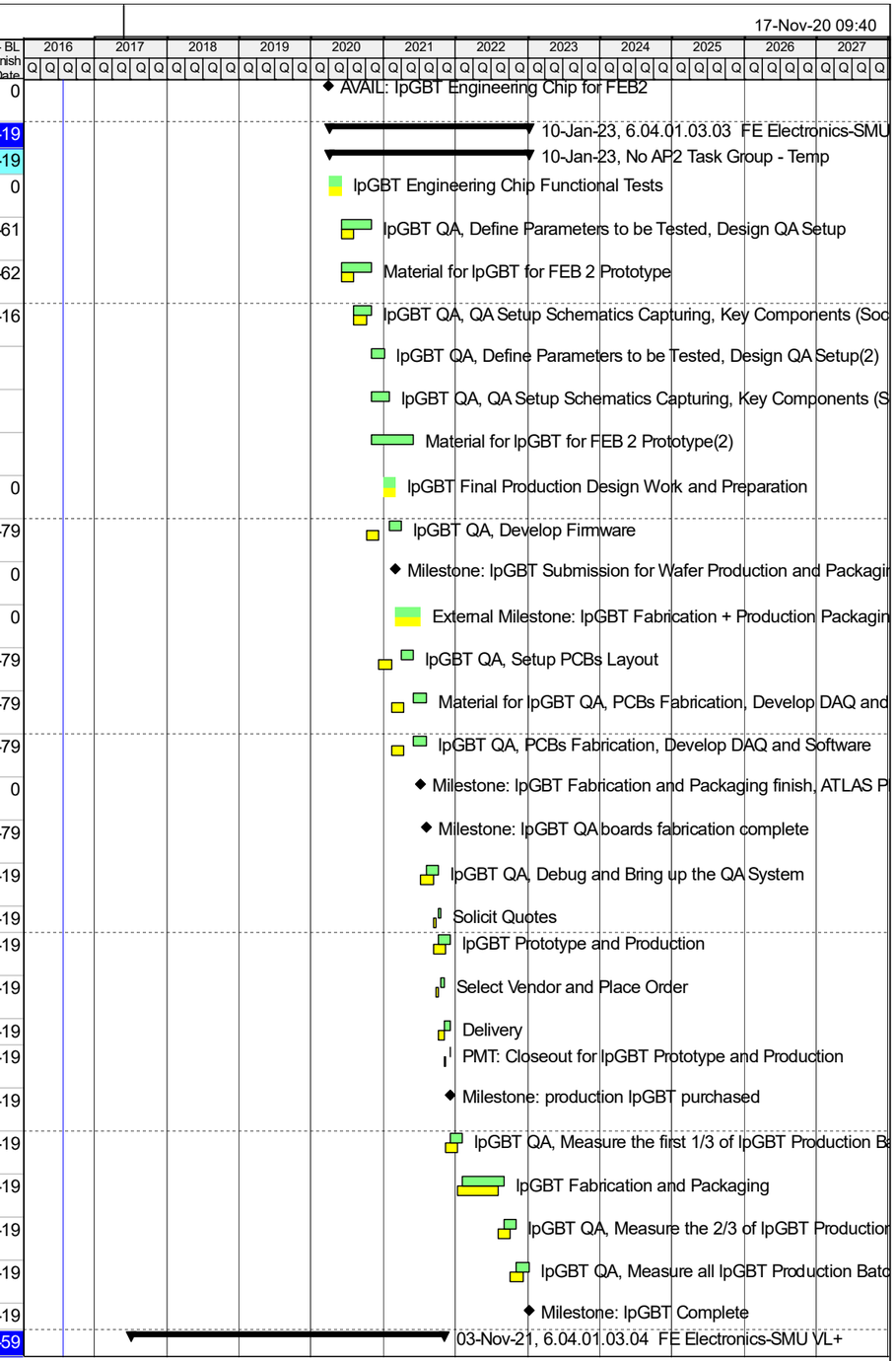
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE20920M	Material for Prod Qualification 100% ASICs	39	09-Nov-23	08-Jan-24	11-Apr-24	06-Jun-24	114	$530.45	$614.95	-106
FEE20930M	Material for Shipping 100% ASICs	39	09-Nov-23	08-Jan-24	11-Apr-24	06-Jun-24	114	$1,060.90	$1,229.90	-106
FEE20920	Prod Qualification 100% ASICs	40	09-Nov-23	09-Jan-24	11-Apr-24	07-Jun-24	113	$32,080.69	$32,080.69	-106
FEE20930	Shipping 100% ASICs	40	09-Nov-23	09-Jan-24	11-Apr-24	07-Jun-24	113	$1,887.10	$1,887.10	-106
FEE20940	Milestone: Production Complete	0		09-Jan-24		07-Jun-24	113	$0.00	$0.00	-106
FEE20950	Documentation	60	09-Jan-24	03-Apr-24	07-Jun-24	03-Sep-24	276	$48,121.03	$48,121.03	-106
6.04.01.02.11 LAr FE ADC Other		**1362**	**03-Oct-16**	**22-Feb-22**	**03-Oct-16**	**22-Feb-22**	**155**	**$89,653.30**	**$100,149.62**	**0**
Admin Adjustment		**20**	**03-Jan-19**	**30-Jan-19**	**03-Jan-19**	**30-Jan-19**	**0**	**$22,756.31**	**$28,672.94**	**0**
FEE20960M	Columbia-Austin Cost Regularization	20	03-Jan-19	30-Jan-19	03-Jan-19	30-Jan-19*	0	$22,756.31	$28,672.94	0
EE Student Tuition		**1362**	**03-Oct-16**	**22-Feb-22**	**03-Oct-16**	**22-Feb-22**	**155**	**$66,897.00**	**$71,476.68**	**0**
FEE20970M	EE Student Tuition Pre-MREFC	883	03-Oct-16	31-Mar-20	03-Oct-16	31-Mar-20	155	$43,740.00	$45,456.31	0
FEE20971M	EE Student Tuition MREFC	479	01-Apr-20	22-Feb-22	01-Apr-20	22-Feb-22	155	$23,157.00	$26,020.37	0
6.04.01.03 FE Electronics-SMU		**1523**	**03-Jan-17**	**12-Dec-22**	**03-Jan-17**	**10-Jan-23**	**1449**	**$3,741,375.67**	**$3,847,666.95**	**-19**
6.04.01.03.01 FE Electronics-SMU lpGBT Prototype		**609**	**03-Jan-17**	**29-May-19**	**03-Jan-17**	**29-May-19**	**196**	**$214,038.96**	**$216,811.09**	**0**
No AP2 Task Group - Temp		**609**	**03-Jan-17**	**29-May-19**	**03-Jan-17**	**29-May-19**	**196**	**$214,038.96**	**$216,811.09**	**0**
FEE30010	lpGBT Prototype Design Work, the ePortRx Phase Detector	40	03-Jan-17	28-Feb-17	03-Jan-17*	28-Feb-17	0	$27,385.60	$27,385.60	0
FEE30020	lpGBT Prototype Design Work, the 2.5 Gbps Equalizer	43	01-Mar-17	28-Apr-17	01-Mar-17	28-Apr-17	115	$29,439.52	$29,439.52	0
FEE30030	lpGBT Prototype Design Work, the Clock Output Phase Shifter	44	01-May-17	30-Jun-17	01-May-17	30-Jun-17	115	$30,124.16	$30,124.16	0
FEE30040	lpGBT Prototype Design Work, the eRx, the I/O Pads	31	03-Jul-17	15-Aug-17	03-Jul-17	15-Aug-17	115	$21,223.84	$21,223.84	0
FEE30050	lpGBT Prototype Design Work, the Overall Integration Support	32	16-Aug-17	29-Sep-17	16-Aug-17	29-Sep-17	115	$21,908.48	$21,908.48	0
FEE30060	Milestone: lpGBT- Prototype ASIC Submission	0		29-Sep-17		29-Sep-17	115	$0.00	$0.00	0
FEE30070	Wait Activity	300	02-Oct-17	07-Dec-18	02-Oct-17	07-Dec-18	115	$0.00	$0.00	0
FEE30110T	Travel for Evaluation Prototype lpGBT at CERN, Functional Tests	41	10-Dec-18	06-Feb-19	10-Dec-18	06-Feb-19	116	$10,662.05	$13,434.18	0
FEE30110	Evaluation Prototype lpGBT at CERN, Functional Tests	42	10-Dec-18	07-Feb-19	10-Dec-18	07-Feb-19	115	$28,966.56	$28,966.56	0
FEE30130	Evaluation Prototype lpGBT at SMU, Detailed Functional Tests	44	08-Feb-19	11-Apr-19	08-Feb-19	11-Apr-19	196	$28,128.07	$28,128.07	0
FEE30140	Evaluation Prototype lpGBT at SMU, Detailed Parameter Measurements:	33	12-Apr-19	29-May-19	12-Apr-19	29-May-19	196	$16,200.68	$16,200.68	0
FEE30160EX	External Milestone: lpGBT Prototype Tested for ATLAS FDR	0		29-May-19		29-May-19	196	$0.00	$0.00	0
6.04.01.03.02 FE Electronics-SMU lpGBT Engineering Chip		**289**	**08-Feb-19**	**31-Mar-20**	**08-Feb-19**	**31-Mar-20**	**115**	**$96,248.32**	**$96,248.32**	**0**
No AP2 Task Group - Temp		**289**	**08-Feb-19**	**31-Mar-20**	**08-Feb-19**	**31-Mar-20**	**115**	**$96,248.32**	**$96,248.32**	**0**
FEE30170	lpGBT Engineering Chip Design Work, Reproduce Findings in Tests via	43	08-Feb-19	10-Apr-19	08-Feb-19	10-Apr-19	115	$31,592.96	$31,592.96	0
FEE30180	lpGBT Engineering Chip Design Work, Implement Necessary Changes	43	11-Apr-19	11-Jun-19	11-Apr-19	11-Jun-19	115	$31,592.96	$31,592.96	0
FEE30190	lpGBT Engineering Chip Design Work, Overall Integration and Prepare for	45	12-Jun-19	14-Aug-19	12-Jun-19	14-Aug-19	115	$33,062.40	$33,062.40	0
FEE30200	Milestone: lpGBT Engineering Chip Submitted	0		14-Aug-19		14-Aug-19	115	$0.00	$0.00	0
FEE30210	lpGBT Engineering Chip Fab. + Packaging	158	15-Aug-19	31-Mar-20	15-Aug-19	31-Mar-20	115	$0.00	$0.00	0



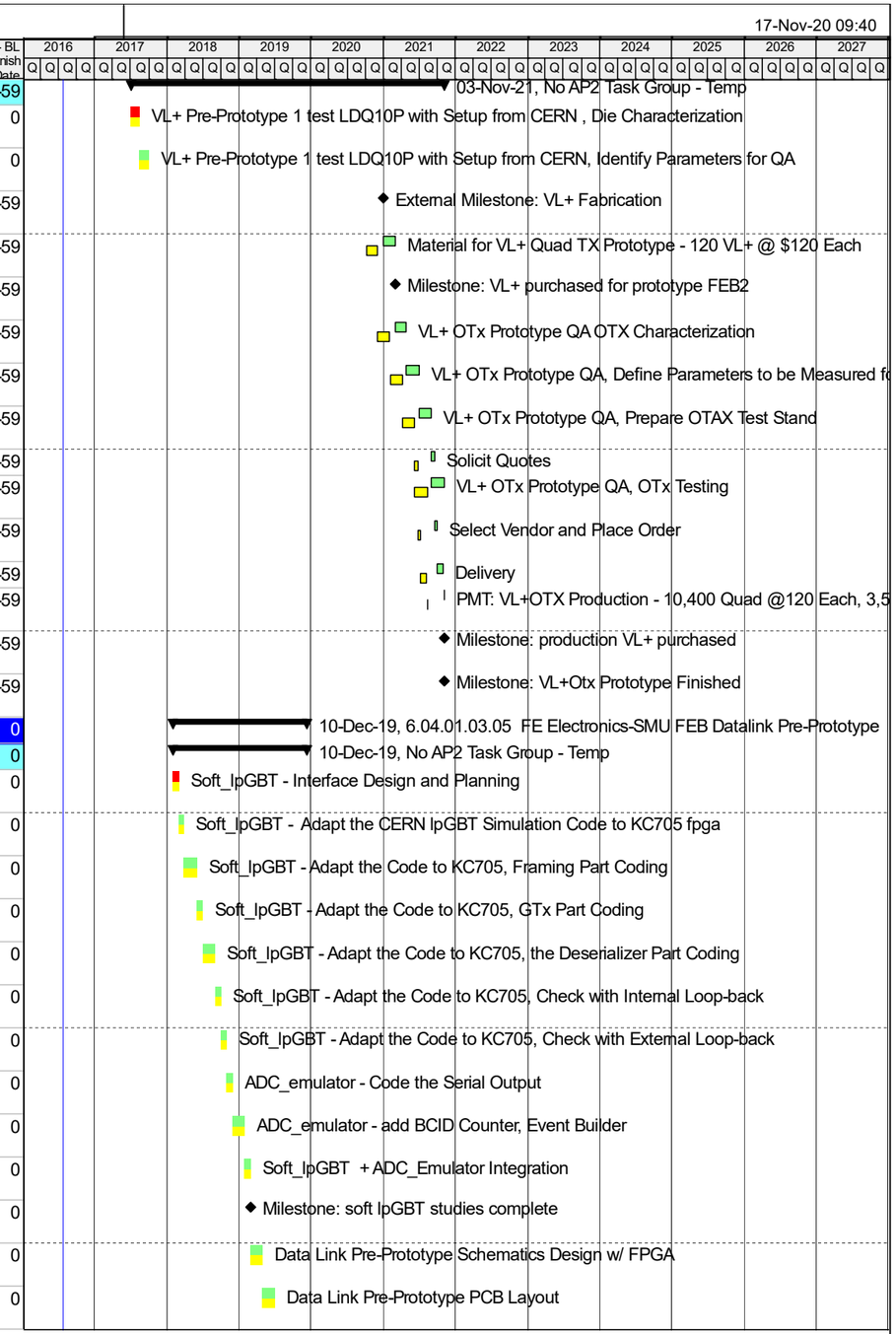
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE30225A	AVAIL: lpGBT Engineering Chip for FEB2	0		31-Mar-20		31-Mar-20	115	$0.00	$0.00	0
6.04.01.03.03 FE Electronics-SMU lpGBT Production		**702**	**01-Apr-20**	**12-Dec-22**	**01-Apr-20**	**10-Jan-23**	**1449**	**$1,139,619.86**	**$1,185,472.12**	**-19**
No AP2 Task Group - Temp		**702**	**01-Apr-20**	**12-Dec-22**	**01-Apr-20**	**10-Jan-23**	**1449**	**$1,139,619.86**	**$1,185,472.12**	**-19**
FEE30240	lpGBT Engineering Chip Functional Tests	45	01-Apr-20	03-Jun-20	01-Apr-20	03-Jun-20	274	$20,006.24	$20,006.24	0
FEE30290	lpGBT QA, Define Parameters to be Tested, Design QA Setup	104	04-Jun-20	04-Aug-20	04-Jun-20	30-Oct-20	1855	$31,837.60	$19,219.97	-61
FEE30290M	Material for lpGBT for FEB 2 Prototype	104	04-Jun-20	03-Aug-20	04-Jun-20	30-Oct-20	1855	$18,937.07	$11,093.98	-62
FEE30300	lpGBT QA, QA Setup Schematics Capturing, Key Components (Socket)	62	05-Aug-20	07-Oct-20	04-Aug-20*	30-Oct-20	109	$29,175.20	$17,462.39	-16
FEE30291	lpGBT QA, Define Parameters to be Tested, Design QA Setup(2)	43			02-Nov-20	04-Jan-21	1959	$0.00	$32,729.71	
FEE30301	lpGBT QA, QA Setup Schematics Capturing, Key Components (Socket)	63			02-Nov-20	01-Feb-21	109	$0.00	$29,121.01	
FEE30291M	Material for lpGBT for FEB 2 Prototype(2)	147			02-Nov-20	01-Jun-21	1855	$0.00	$14,481.29	
FEE30250	lpGBT Final Production Design Work and Preparation	43	04-Jan-21	04-Mar-21	04-Jan-21*	04-Mar-21	128	$34,162.73	$34,162.73	0
FEE30310	lpGBT QA, Develop Firmware	43	07-Oct-20	09-Dec-20	02-Feb-21	02-Apr-21	109	$27,274.33	$27,274.33	-79
FEE30260	Milestone: lpGBT Submission for Wafer Production and Packaging	0		04-Mar-21		04-Mar-21	1054	$0.00	$0.00	0
FEE30270EX	External Milestone: lpGBT Fabrication + Production Packaging	89	04-Mar-21	09-Jul-21	04-Mar-21	09-Jul-21	128	$0.00	$0.00	0
FEE30320	lpGBT QA, Setup PCBs Layout	43	09-Dec-20	10-Feb-21	02-Apr-21	03-Jun-21	109	$25,176.80	$25,176.80	-79
FEE30330M	Material for lpGBT QA, PCBs Fabrication, Develop DAQ and Software	43	10-Feb-21	13-Apr-21	03-Jun-21	04-Aug-21	110	$23,870.25	$25,323.95	-79
FEE30330	lpGBT QA, PCBs Fabrication, Develop DAQ and Software	44	10-Feb-21	14-Apr-21	03-Jun-21	05-Aug-21	109	$28,457.00	$28,457.00	-79
FEE30280	Milestone: lpGBT Fabrication and Packaging finish, ATLAS PRR	0		09-Jul-21		09-Jul-21	128	$0.00	$0.00	0
FEE30335	Milestone: lpGBT QA boards fabrication complete	0		14-Apr-21		05-Aug-21	109	$0.00	$0.00	-79
FEE30340	lpGBT QA, Debug and Bring up the QA System	43	09-Jul-21	09-Sep-21	05-Aug-21	06-Oct-21	109	$27,814.88	$27,885.27	-19
FEE30345M10	Solicit Quotes	10	09-Sep-21	23-Sep-21	06-Oct-21	21-Oct-21	109	$0.00	$0.00	-19
FEE30345	lpGBT Prototype and Production	42	09-Sep-21	09-Nov-21	06-Oct-21	07-Dec-21	109	$0.00	$0.00	-19
FEE30345M20	Select Vendor and Place Order	10	23-Sep-21	07-Oct-21	21-Oct-21	04-Nov-21	109	$0.00	$0.00	-19
FEE30345M30	Delivery	21	07-Oct-21	08-Nov-21	04-Nov-21	06-Dec-21	109	$0.00	$0.00	-19
FEE30345M40	PMT: Closeout for lpGBT Prototype and Production	1	08-Nov-21	09-Nov-21	06-Dec-21	07-Dec-21	109	$814,380.00	$814,380.00	-19
FEE30355	Milestone: production lpGBT purchased	0		09-Nov-21		07-Dec-21	109	$0.00	$0.00	-19
FEE30350	lpGBT QA, Measure the first 1/3 of lpGBT Production Batch	42	09-Nov-21	11-Jan-22	07-Dec-21	07-Feb-22	109	$18,492.43	$18,492.43	-19
FEE30351	lpGBT Fabrication and Packaging	145	11-Jan-22	05-Aug-22	07-Feb-22	01-Sep-22	109	$18,492.43	$18,492.43	-19
FEE30360	lpGBT QA, Measure the 2/3 of lpGBT Production Batch	44	05-Aug-22	07-Oct-22	01-Sep-22	04-Nov-22	109	$13,312.11	$13,481.81	-19
FEE30370	lpGBT QA, Measure all lpGBT Production Batch	44	07-Oct-22	12-Dec-22	04-Nov-22	10-Jan-23	109	$8,230.78	$8,230.78	-19
FEE30380	Milestone: lpGBT Complete	0		12-Dec-22		10-Jan-23	109	$0.00	$0.00	-19
6.04.01.03.04 FE Electronics-SMU VL+		**1098**	**03-Jul-17**	**10-Aug-21**	**03-Jul-17**	**03-Nov-21**	**407**	**$1,326,253.03**	**$1,333,086.58**	**-59**



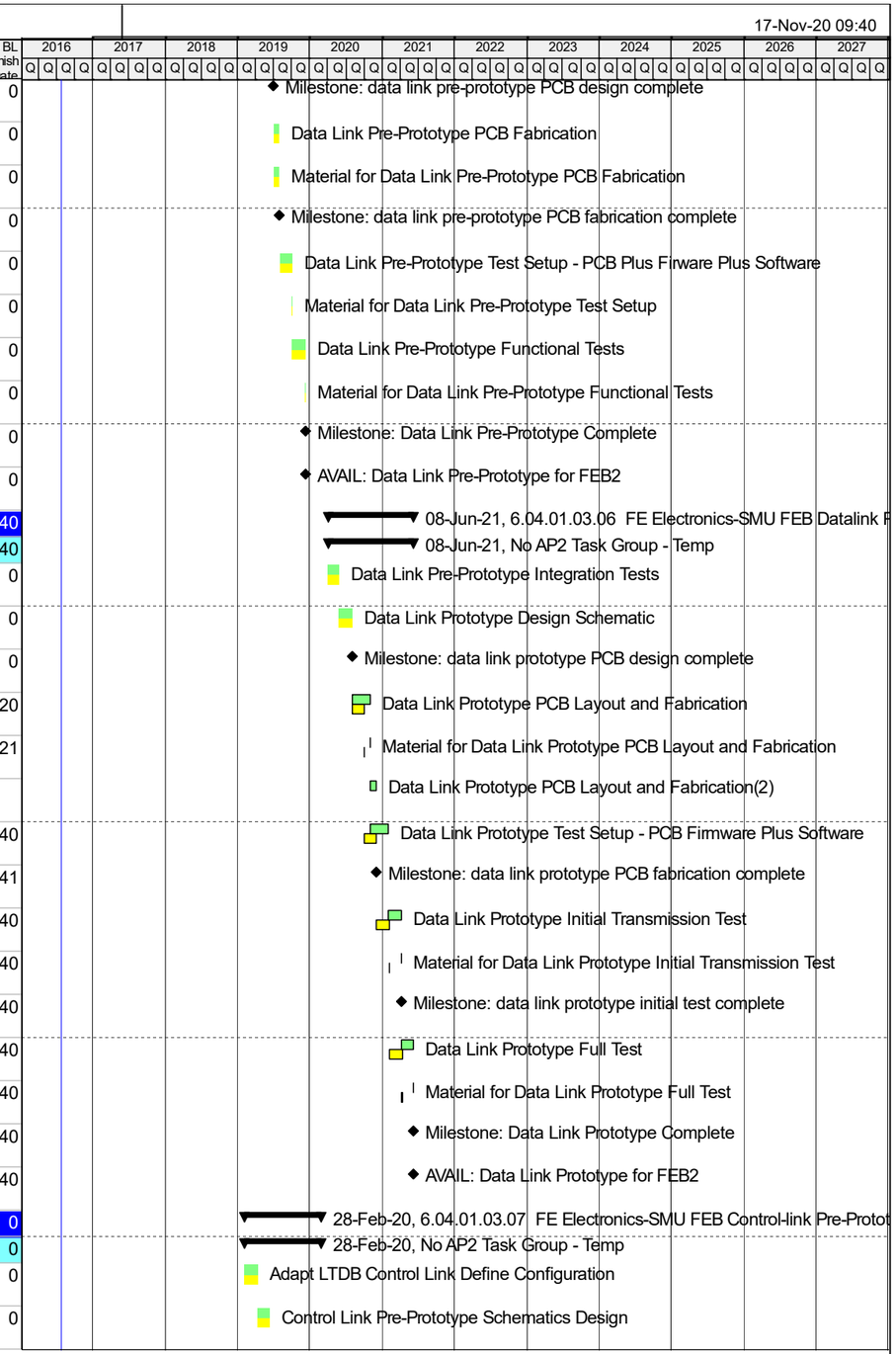
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
No AP2 Task Group - Temp		**1098**	**03-Jul-17**	**10-Aug-21**	**03-Jul-17**	**03-Nov-21**	**407**	**$1,326,253.03**	**$1,333,086.58**	**-59**
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	$19,804.79	$19,804.79	0
FEE30400	VL+ Pre-Prototype 1 test LDQ10P with Setup from CERN, Identify Parameters	34	17-Aug-17	04-Oct-17	17-Aug-17	04-Oct-17	819	$21,460.46	$21,460.46	0
FEE30490EX	External Milestone: VL+ Fabrication	0		07-Oct-20		04-Jan-21*	0	$0.00	$0.00	-59
FEE30495M	Material for VL+ Quad TX Prototype - 120 VL+ @ $120 Each	40	07-Oct-20	03-Dec-20	04-Jan-21	01-Mar-21	257	$18,937.07	$25,313.17	-59
FEE30498	Milestone: VL+ purchased for prototype FEB2	0		03-Dec-20		01-Mar-21	347	$0.00	$0.00	-59
FEE30500	VL+ OTx Prototype QA OTX Characterization	42	04-Dec-20	03-Feb-21	02-Mar-21	28-Apr-21	347	$30,004.92	$30,004.92	-59
FEE30510	VL+ OTx Prototype QA, Define Parameters to be Measured for QA	43	04-Feb-21	06-Apr-21	29-Apr-21	29-Jun-21	347	$28,621.80	$28,621.80	-59
FEE30520	VL+ OTx Prototype QA, Prepare OTAX Test Stand	45	07-Apr-21	09-Jun-21	30-Jun-21	01-Sep-21	347	$32,148.13	$32,148.13	-59
FEE30540M10	Solicit Quotes	10	10-Jun-21	23-Jun-21	02-Sep-21	16-Sep-21	408	$0.00	$0.00	-59
FEE30540	VL+ OTx Prototype QA, OTx Testing	43	10-Jun-21	10-Aug-21	02-Sep-21	03-Nov-21	347	$28,495.87	$28,953.31	-59
FEE30540M20	Select Vendor and Place Order	10	24-Jun-21	08-Jul-21	17-Sep-21	30-Sep-21	408	$0.00	$0.00	-59
FEE30540M30	Delivery	22	09-Jul-21	09-Aug-21	01-Oct-21	02-Nov-21	408	$0.00	$0.00	-59
FEE30540M40	PMT: VL+OTX Production - 10,400 Quad @120 Each, 3,500 Single @30	1	10-Aug-21	10-Aug-21	03-Nov-21	03-Nov-21	407	$1,146,780.00	$1,146,780.00	-59
FEE30550	Milestone: production VL+ purchased	0		10-Aug-21		03-Nov-21	407	$0.00	$0.00	-59
FEE30560	Milestone: VL+Otx Prototype Finished	0		10-Aug-21		03-Nov-21	407	$0.00	$0.00	-59
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**	**192**	**$206,075.80**	**$212,881.38**	**0**
No AP2 Task Group - Temp		**470**	**01-Feb-18**	**10-Dec-19**	**01-Feb-18**	**10-Dec-19**	**192**	**$206,075.80**	**$212,881.38**	**0**
FEE30600	Soft_lpGBT - Interface Design and Planning	20	01-Feb-18	01-Mar-18	01-Feb-18*	01-Mar-18	0	$3,399.97	$3,399.97	0
FEE30610	Soft_lpGBT - Adapt the CERN lpGBT Simulation Code to KC705 fpga	20	02-Mar-18	29-Mar-18	02-Mar-18	29-Mar-18	192	$3,399.97	$3,399.97	0
FEE30615	Soft_lpGBT - Adapt the Code to KC705, Framing Part Coding	44	30-Mar-18	31-May-18	30-Mar-18	31-May-18	192	$3,399.97	$3,399.97	0
FEE30620	Soft_lpGBT - Adapt the Code to KC705, GTx Part Coding	21	01-Jun-18	29-Jun-18	01-Jun-18	29-Jun-18	192	$3,399.97	$3,399.97	0
FEE30625	Soft_lpGBT - Adapt the Code to KC705, the Deserializer Part Coding	44	02-Jul-18	31-Aug-18	02-Jul-18	31-Aug-18	192	$6,799.93	$6,799.93	0
FEE30630	Soft_lpGBT - Adapt the Code to KC705, Check with Internal Loop-back	20	04-Sep-18	01-Oct-18	04-Sep-18	01-Oct-18	192	$3,402.39	$3,402.39	0
FEE30635	Soft_lpGBT - Adapt the Code to KC705, Check with External Loop-back	20	02-Oct-18	30-Oct-18	02-Oct-18	30-Oct-18	192	$3,448.40	$3,448.40	0
FEE30640	ADC_emulator - Code the Serial Output	22	31-Oct-18	30-Nov-18	31-Oct-18	30-Nov-18	192	$3,448.40	$3,448.40	0
FEE30645	ADC_emulator - add BCID Counter, Event Builder	42	03-Dec-18	31-Jan-19	03-Dec-18	31-Jan-19	192	$6,896.80	$6,896.80	0
FEE30650	Soft_lpGBT + ADC_Emulator Integration	20	01-Feb-19	01-Mar-19	01-Feb-19	01-Mar-19	192	$3,448.40	$3,448.40	0
FEE30660	Milestone: soft lpGBT studies complete	0		01-Mar-19		01-Mar-19	192	$0.00	$0.00	0
FEE30670	Data Link Pre-Prototype Schematics Design w/ FPGA	44	04-Mar-19	02-May-19	04-Mar-19	02-May-19	192	$23,124.30	$23,124.30	0
FEE30680	Data Link Pre-Prototype PCB Layout	43	03-May-19	03-Jul-19	03-May-19	03-Jul-19	192	$32,262.81	$32,262.81	0



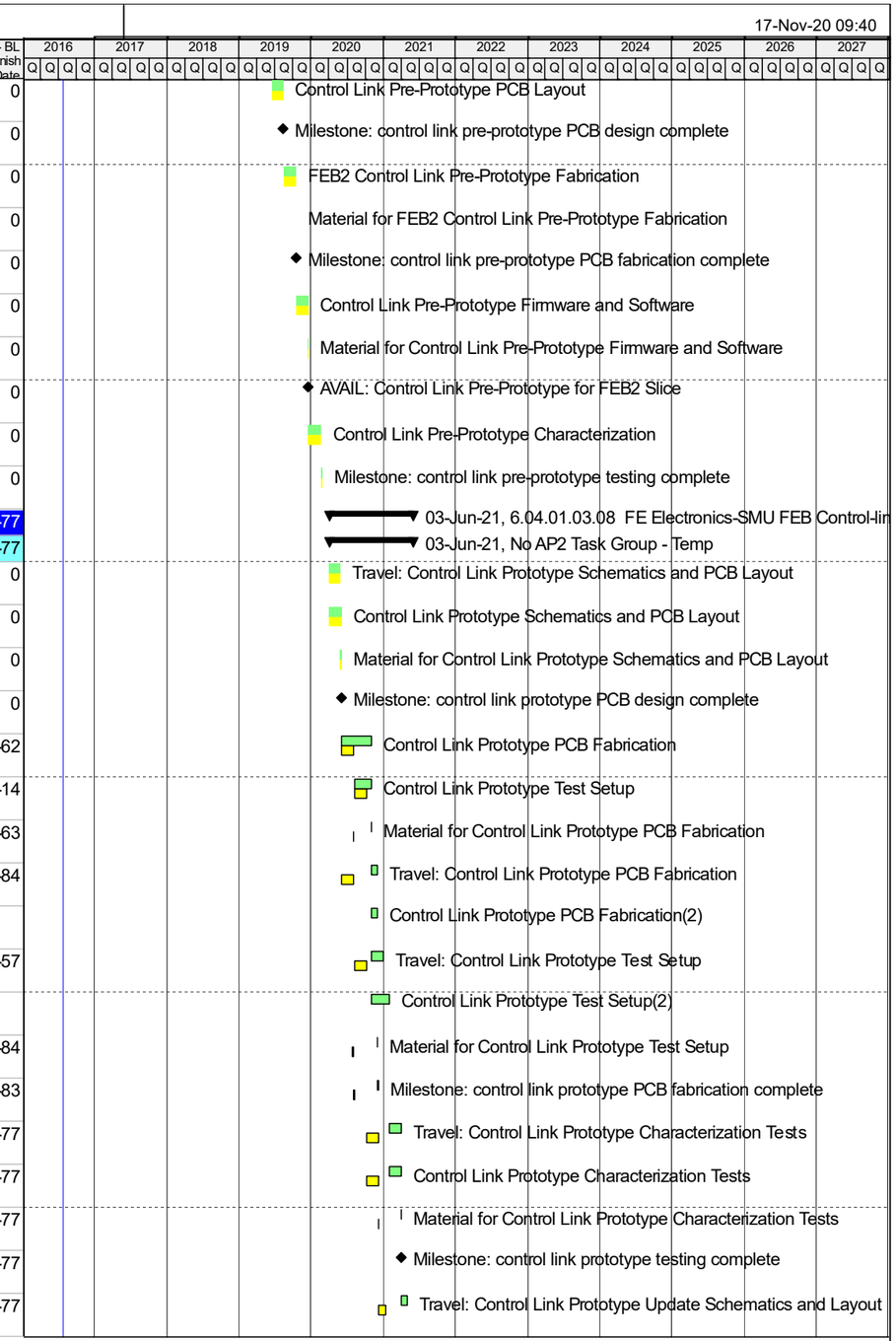
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE30690	Milestone: data link pre-prototype PCB design complete	0		03-Jul-19		03-Jul-19	192	$0.00	$0.00	0
FEE30700	Data Link Pre-Prototype PCB Fabrication	21	05-Jul-19	02-Aug-19	05-Jul-19	02-Aug-19	192	$1,082.97	$1,082.97	0
FEE30700M	Material for Data Link Pre-Prototype PCB Fabrication	21	05-Jul-19	02-Aug-19	05-Jul-19	02-Aug-19	192	$20,051.01	$25,264.27	0
FEE30710	Milestone: data link pre-prototype PCB fabrication complete	0		02-Aug-19		02-Aug-19	192	$0.00	$0.00	0
FEE30720	Data Link Pre-Prototype Test Setup - PCB Plus Firware Plus Software	45	05-Aug-19	07-Oct-19	05-Aug-19	07-Oct-19	192	$53,853.89	$53,853.89	0
FEE30720M	Material for Data Link Pre-Prototype Test Setup	1	07-Oct-19	07-Oct-19	07-Oct-19	07-Oct-19	192	$2,673.47	$3,469.63	0
FEE30730	Data Link Pre-Prototype Functional Tests	44	08-Oct-19	10-Dec-19	08-Oct-19	10-Dec-19	192	$29,309.70	$29,309.70	0
FEE30730M	Material for Data Link Pre-Prototype Functional Tests	1	10-Dec-19	10-Dec-19	10-Dec-19	10-Dec-19	192	$2,673.47	$3,469.63	0
FEE30740	Milestone: Data Link Pre-Prototype Complete	0		10-Dec-19		10-Dec-19	192	$0.00	$0.00	0
FEE30750A	AVAIL: Data Link Pre-Prototype for FEB2	0		10-Dec-19		10-Dec-19	192	$0.00	$0.00	0
6.04.01.03.06 FE Electronics-SMU FEB Datalink Prototype		**301**	**01-Apr-20**	**12-Apr-21**	**01-Apr-20**	**08-Jun-21**	**1850**	**$324,394.46**	**$341,344.41**	**-40**
No AP2 Task Group - Temp		**301**	**01-Apr-20**	**12-Apr-21**	**01-Apr-20**	**08-Jun-21**	**1850**	**$324,394.46**	**$341,344.41**	**-40**
FEE30775	Data Link Pre-Prototype Integration Tests	41	01-Apr-20	28-May-20	01-Apr-20	28-May-20	187	$67,280.08	$67,280.08	0
FEE30800	Data Link Prototype Design Schematic	45	29-May-20	31-Jul-20	29-May-20	31-Jul-20	187	$31,211.52	$31,211.52	0
FEE30805	Milestone: data link prototype PCB design complete	0		31-Jul-20		31-Jul-20	187	$0.00	$0.00	0
FEE30810	Data Link Prototype PCB Layout and Fabrication	63	03-Aug-20	01-Oct-20	03-Aug-20	30-Oct-20	187	$24,460.14	$24,687.66	-20
FEE30810M	Material for Data Link Prototype PCB Layout and Fabrication	1	01-Oct-20	01-Oct-20	02-Nov-20	02-Nov-20	2001	$16,040.81	$21,441.75	-21
FEE30811	Data Link Prototype PCB Layout and Fabrication(2)	21			02-Nov-20	01-Dec-20	187	$0.00	$3,073.91	
FEE30820	Data Link Prototype Test Setup - PCB Firmware Plus Software	63	02-Oct-20	03-Dec-20	02-Nov-20	01-Feb-21	187	$64,690.61	$71,137.89	-40
FEE30815	Milestone: data link prototype PCB fabrication complete	0		01-Oct-20		01-Dec-20	1981	$0.00	$0.00	-41
FEE30830	Data Link Prototype Initial Transmission Test	44	03-Dec-20	05-Feb-21	02-Feb-21	05-Apr-21	187	$62,984.06	$62,984.06	-40
FEE30830M	Material for Data Link Prototype Initial Transmission Test	1	04-Feb-21	05-Feb-21	05-Apr-21	05-Apr-21	187	$2,673.47	$3,573.62	-40
FEE30835	Milestone: data link prototype initial test complete	0		05-Feb-21		05-Apr-21	187	$0.00	$0.00	-40
FEE30840	Data Link Prototype Full Test	45	05-Feb-21	12-Apr-21	06-Apr-21	08-Jun-21	187	$52,380.30	$52,380.30	-40
FEE30840M	Material for Data Link Prototype Full Test	1	09-Apr-21	12-Apr-21	08-Jun-21	08-Jun-21	187	$2,673.47	$3,573.62	-40
FEE30850	Milestone: Data Link Prototype Complete	0		12-Apr-21		08-Jun-21	187	$0.00	$0.00	-40
FEE30855A	AVAIL: Data Link Prototype for FEB2	0		12-Apr-21		08-Jun-21	187	$0.00	$0.00	-40
6.04.01.03.07 FE Electronics-SMU FEB Control-link Pre-Prototy		**267**	**08-Feb-19**	**28-Feb-20**	**08-Feb-19**	**28-Feb-20**	**257**	**$50,588.82**	**$56,155.61**	**0**
No AP2 Task Group - Temp		**267**	**08-Feb-19**	**28-Feb-20**	**08-Feb-19**	**28-Feb-20**	**257**	**$50,588.82**	**$56,155.61**	**0**
FEE30860	Adapt LTDB Control Link Define Configuration	44	08-Feb-19	11-Apr-19	08-Feb-19	11-Apr-19	185	$5,781.08	$5,781.08	0
FEE30870	Control Link Pre-Prototype Schematics Design	45	12-Apr-19	14-Jun-19	12-Apr-19	14-Jun-19	185	$5,380.82	$5,380.82	0



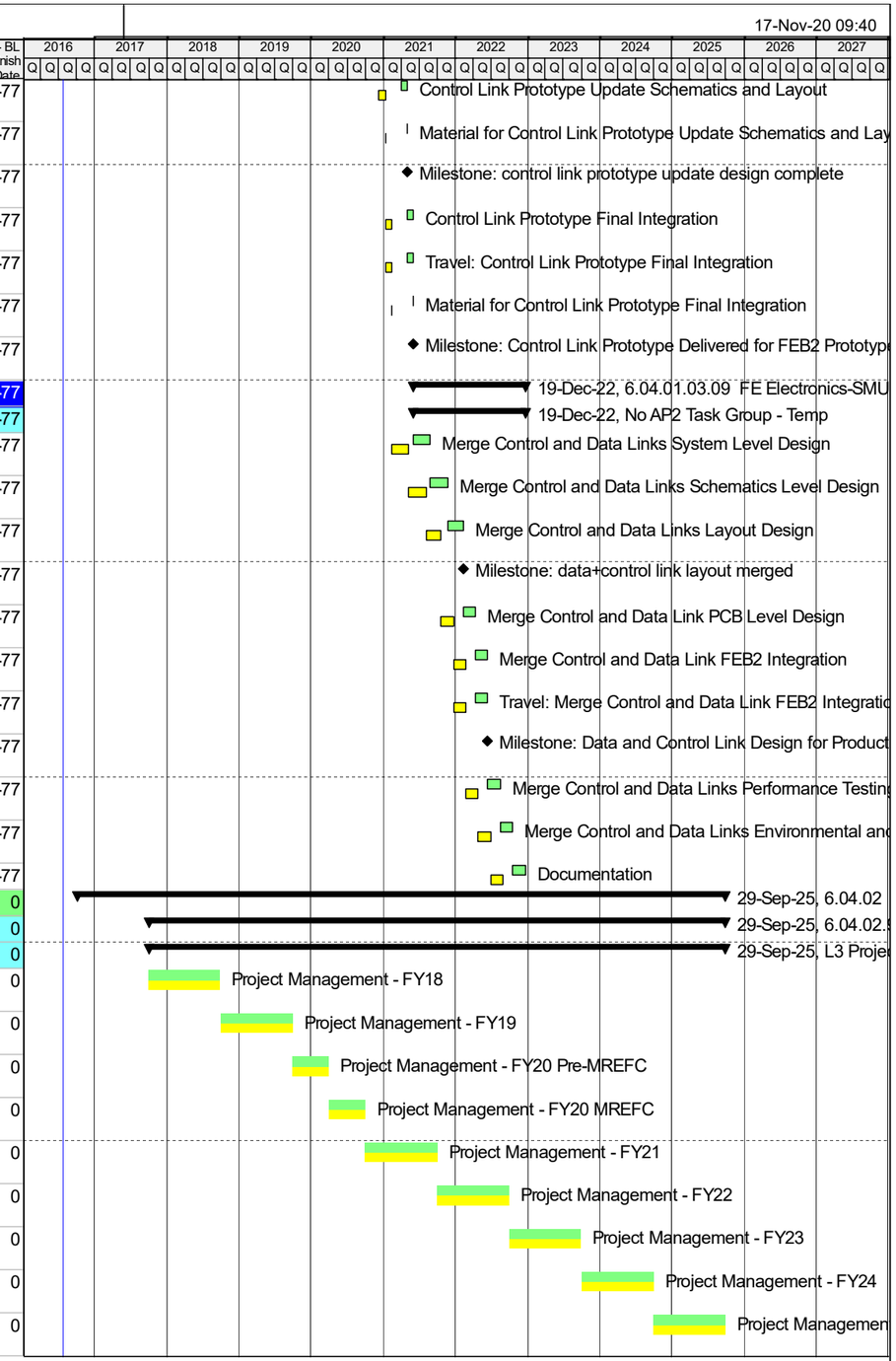
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE30880	Control Link Pre-Prototype PCB Layout	42	17-Jun-19	14-Aug-19	17-Jun-19	14-Aug-19	185	$4,534.93	$4,534.93	0
FEE30885	Milestone: control link pre-prototype PCB design complete	0		14-Aug-19		14-Aug-19	185	$0.00	$0.00	0
FEE30890	FEB2 Control Link Pre-Prototype Fabrication	43	15-Aug-19	16-Oct-19	15-Aug-19	16-Oct-19	185	$4,889.69	$4,889.69	0
FEE30890M	Material for FEB2 Control Link Pre-Prototype Fabrication	1	16-Oct-19	16-Oct-19	16-Oct-19	16-Oct-19	185	$16,040.81	$20,817.76	0
FEE30895	Milestone: control link pre-prototype PCB fabrication complete	0		16-Oct-19		16-Oct-19	185	$0.00	$0.00	0
FEE30900	Control Link Pre-Prototype Firmware and Software	45	17-Oct-19	19-Dec-19	17-Oct-19	19-Dec-19	185	$5,731.60	$5,731.60	0
FEE30900M	Material for Control Link Pre-Prototype Firmware and Software	1	18-Dec-19	19-Dec-19	18-Dec-19	19-Dec-19	257	$2,652.25	$3,442.09	0
FEE30900A	AVAIL: Control Link Pre-Prototype for FEB2 Slice	0		19-Dec-19		19-Dec-19	185	$0.00	$0.00	0
FEE30910	Control Link Pre-Prototype Characterization	43	19-Dec-19	21-Feb-20	19-Dec-19	21-Feb-20	257	$5,577.65	$5,577.65	0
FEE30915	Milestone: control link pre-prototype testing complete	5	21-Feb-20	28-Feb-20	21-Feb-20	28-Feb-20	257	$0.00	$0.00	0
6.04.01.03.08 FE Electronics-SMU FEB Control-link Prototype		**298**	**01-Apr-20**	**12-Feb-21**	**01-Apr-20**	**03-Jun-21**	**1853**	**$65,959.29**	**$83,461.44**	**-77**
No AP2 Task Group - Temp		**298**	**01-Apr-20**	**12-Feb-21**	**01-Apr-20**	**03-Jun-21**	**1853**	**$65,959.29**	**$83,461.44**	**-77**
FEE31020T	Travel: Control Link Prototype Schematics and PCB Layout	42	01-Apr-20	29-May-20	01-Apr-20	29-May-20	236	$1,336.73	$1,734.81	0
FEE31020	Control Link Prototype Schematics and PCB Layout	43	01-Apr-20	01-Jun-20	01-Apr-20	01-Jun-20	235	$5,767.03	$5,767.03	0
FEE31020M	Material for Control Link Prototype Schematics and PCB Layout	1	29-May-20	01-Jun-20	29-May-20	01-Jun-20	235	$2,652.25	$3,442.09	0
FEE31025	Milestone: control link prototype PCB design complete	0		01-Jun-20		01-Jun-20	235	$0.00	$0.00	0
FEE31030	Control Link Prototype PCB Fabrication	106	01-Jun-20	03-Aug-20	01-Jun-20	30-Oct-20	235	$5,139.64	$5,170.17	-62
FEE31040	Control Link Prototype Test Setup	58	10-Aug-20	09-Oct-20	10-Aug-20*	30-Oct-20	193	$5,923.28	$2,979.78	-14
FEE31030M	Material for Control Link Prototype PCB Fabrication	1	31-Jul-20	03-Aug-20	02-Nov-20	02-Nov-20	I996	$15,913.50	$21,271.58	-63
FEE31030T	Travel: Control Link Prototype PCB Fabrication	21	01-Jun-20	31-Jul-20	02-Nov-20	01-Dec-20	235	$1,336.73	$1,786.81	-84
FEE31031	Control Link Prototype PCB Fabrication(2)	21			02-Nov-20	01-Dec-20	235	$0.00	$902.65	
FEE31040T	Travel: Control Link Prototype Test Setup	42	10-Aug-20	08-Oct-20	02-Nov-20	31-Dec-20	214	$1,336.73	$1,786.81	-57
FEE31041	Control Link Prototype Test Setup(2)	63			02-Nov-20*	01-Feb-21	193	$0.00	$7,144.03	
FEE31040M	Material for Control Link Prototype Test Setup	1	30-Jul-20	31-Jul-20	01-Dec-20	01-Dec-20	235	$2,652.25	$3,545.26	-84
FEE31035	Milestone: control link prototype PCB fabrication complete	5	03-Aug-20	10-Aug-20	02-Dec-20	08-Dec-20	I976	$0.00	$0.00	-83
FEE31050T	Travel: Control Link Prototype Characterization Tests	40	09-Oct-20	08-Dec-20	02-Feb-21	30-Mar-21	195	$1,336.73	$1,786.81	-77
FEE31050	Control Link Prototype Characterization Tests	42	09-Oct-20	10-Dec-20	02-Feb-21	01-Apr-21	193	$6,072.42	$6,072.42	-77
FEE31050M	Material for Control Link Prototype Characterization Tests	1	09-Dec-20	10-Dec-20	01-Apr-21	01-Apr-21	193	$2,652.25	$3,545.26	-77
FEE31055	Milestone: control link prototype testing complete	0		10-Dec-20		01-Apr-21	193	$0.00	$0.00	-77
FEE31060T	Travel: Control Link Prototype Update Schematics and Layout	20	10-Dec-20	11-Jan-21	02-Apr-21	29-Apr-21	195	$1,336.73	$1,786.81	-77



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEE31060	Control Link Prototype Update Schematics and Layout	22	10-Dec-20	13-Jan-21	02-Apr-21	03-May-21	193	$2,646.96	$2,646.96	-77
FEE31060M	Material for Control Link Prototype Update Schematics and Layout	1	12-Jan-21	13-Jan-21	03-May-21	03-May-21	193	$2,652.25	$3,545.26	-77
FEE31065	Milestone: control link prototype update design complete	0		13-Jan-21		03-May-21	193	$0.00	$0.00	-77
FEE31070	Control Link Prototype Final Integration	22	13-Jan-21	12-Feb-21	04-May-21	03-Jun-21	193	$3,214.81	$3,214.81	-77
FEE31070T	Travel: Control Link Prototype Final Integration	22	13-Jan-21	12-Feb-21	04-May-21	03-Jun-21	193	$1,336.73	$1,786.81	-77
FEE31070M	Material for Control Link Prototype Final Integration	1	11-Feb-21	12-Feb-21	03-Jun-21	03-Jun-21	193	$2,652.25	$3,545.26	-77
FEE31080	Milestone: Control Link Prototype Delivered for FEB2 Prototype	0		12-Feb-21		03-Jun-21	193	$0.00	$0.00	-77
6.04.01.03.09	**FE Electronics-SMU Data and Control Links for F**	**390**	**12-Feb-21**	**29-Aug-22**	**04-Jun-21**	**19-Dec-22**	**510**	**$318,197.13**	**$322,206.00**	**-77**
No AP2 Task Group - Temp		**390**	**12-Feb-21**	**29-Aug-22**	**04-Jun-21**	**19-Dec-22**	**510**	**$318,197.13**	**$322,206.00**	**-77**
FEE31090	Merge Control and Data Links System Level Design	60	12-Feb-21	10-May-21	04-Jun-21	27-Aug-21	193	$58,836.39	$58,836.39	-77
FEE31110	Merge Control and Data Links Schematics Level Design	60	10-May-21	04-Aug-21	27-Aug-21	23-Nov-21	193	$66,989.48	$68,225.38	-77
FEE31120	Merge Control and Data Links Layout Design	53	04-Aug-21	20-Oct-21	23-Nov-21	09-Feb-22	193	$37,731.79	$38,588.59	-77
FEE31130	Milestone: data+control link layout merged	0		20-Oct-21		09-Feb-22	193	$0.00	$0.00	-77
FEE31140	Merge Control and Data Link PCB Level Design	44	20-Oct-21	22-Dec-21	09-Feb-22	13-Apr-22	193	$40,233.65	$40,233.65	-77
FEE31150	Merge Control and Data Link FEB2 Integration	43	22-Dec-21	24-Feb-22	13-Apr-22	14-Jun-22	193	$79,034.90	$79,034.90	-77
FEE31150T	Travel: Merge Control and Data Link FEB2 Integration	43	22-Dec-21	24-Feb-22	13-Apr-22	14-Jun-22	193	$4,010.20	$5,534.08	-77
FEE31160	Milestone: Data and Control Link Design for Production Complete	0		24-Feb-22		14-Jun-22	193	$0.00	$0.00	-77
FEE31170	Merge Control and Data Links Performance Testing	43	24-Feb-22	26-Apr-22	14-Jun-22	15-Aug-22	314	$10,101.77	$10,101.77	-77
FEE31180	Merge Control and Data Links Environmental and Lifetime Testing	43	26-Apr-22	27-Jun-22	15-Aug-22	17-Oct-22	314	$10,629.47	$10,702.73	-77
FEE31185	Documentation	44	27-Jun-22	29-Aug-22	17-Oct-22	19-Dec-22	510	$10,629.47	$10,948.50	-77
6.04.02	**FEB2**	**2274**	**03-Oct-16**	**29-Sep-25**	**03-Oct-16**	**29-Sep-25**	**760**	**$7,293,754.11**	**$7,870,099.08**	**0**
6.04.02.90	**L3 Project Management**	**2022**	**02-Oct-17**	**29-Sep-25**	**02-Oct-17**	**29-Sep-25**	**1**	**$0.00**	**$0.00**	**0**
L3 Project Management		**2022**	**02-Oct-17**	**29-Sep-25**	**02-Oct-17**	**29-Sep-25**	**1**	**$0.00**	**$0.00**	**0**
MGT43170	Project Management - FY18	251	02-Oct-17	27-Sep-18	02-Oct-17	27-Sep-18	2	$0.00	$0.00	0
MGT43180	Project Management - FY19	252	01-Oct-18	27-Sep-19	01-Oct-18	27-Sep-19	1	$0.00	$0.00	0
MGT43190	Project Management - FY20 Pre-MREFC	126	01-Oct-19	31-Mar-20	01-Oct-19	31-Mar-20	2	$0.00	$0.00	0
MGT43195	Project Management - FY20 MREFC	127	01-Apr-20	29-Sep-20	01-Apr-20	29-Sep-20	2	$0.00	$0.00	0
MGT43200	Project Management - FY21	252	01-Oct-20	29-Sep-21	01-Oct-20	29-Sep-21	1	$0.00	$0.00	0
MGT43210	Project Management - FY22	252	01-Oct-21	29-Sep-22	01-Oct-21	29-Sep-22	1	$0.00	$0.00	0
MGT43220	Project Management - FY23	251	03-Oct-22	28-Sep-23	03-Oct-22	28-Sep-23	1	$0.00	$0.00	0
MGT43230	Project Management - FY24	252	02-Oct-23	27-Sep-24	02-Oct-23	27-Sep-24	1	$0.00	$0.00	0
MGT43240	Project Management - FY25	252	01-Oct-24	29-Sep-25	01-Oct-24	29-Sep-25	1	$0.00	$0.00	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

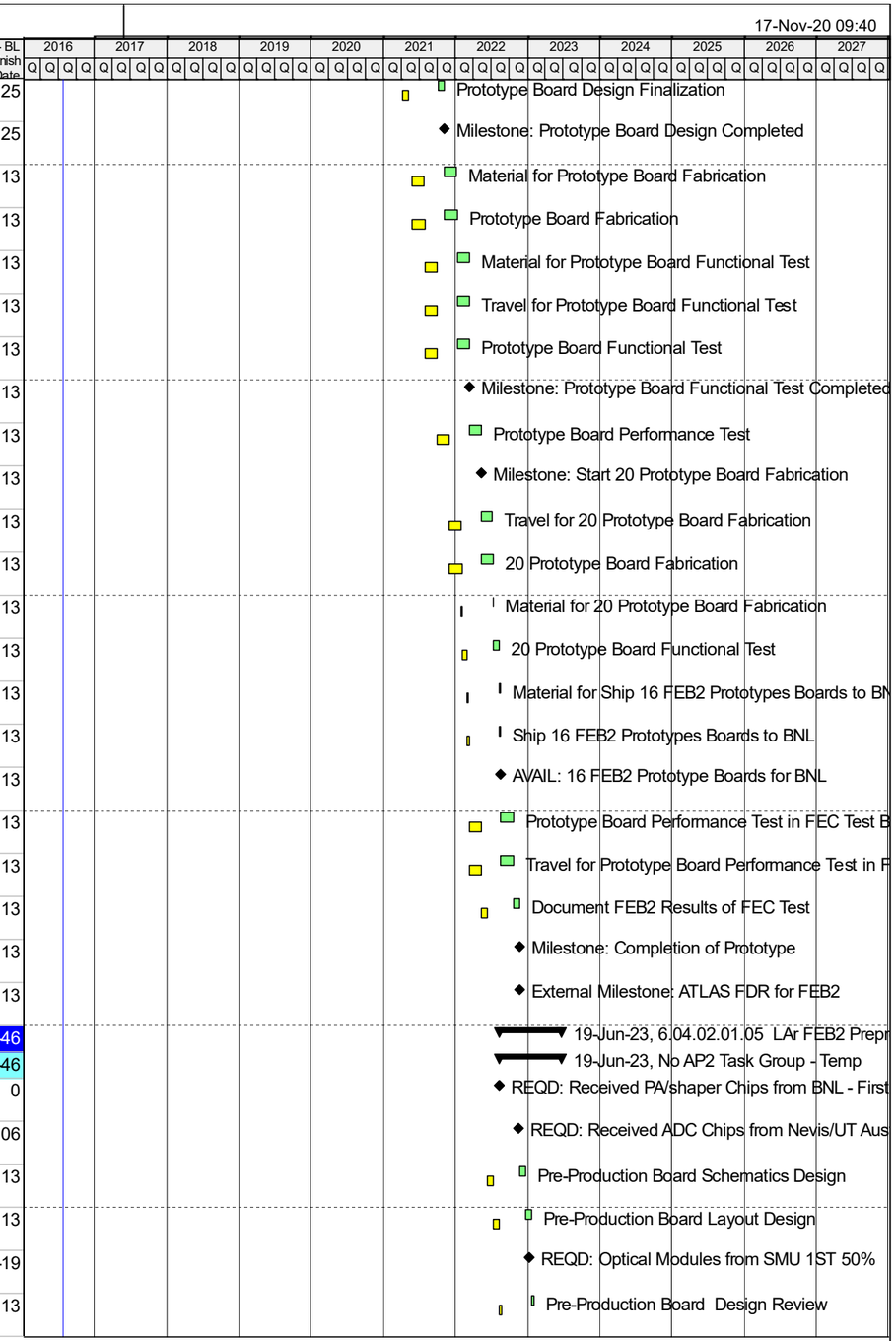
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
6.04.02.01 Columbia		2166	03-Oct-16	03-Feb-25	03-Oct-16	25-Apr-25	868	$7,293,754.11	$7,870,099.08	-58
6.04.02.01.01 LAr FEB2 Analog Test PCB (PA/shaper + ADC)		495	02-Oct-17	16-Sep-19	02-Oct-17	16-Sep-19	120	$402,031.29	$403,134.62	0
No AP2 Task Group - Temp		495	02-Oct-17	16-Sep-19	02-Oct-17	16-Sep-19	120	$402,031.29	$403,134.62	0
FEB21002	FEB2 Architecture Study - Dataflow	44	02-Oct-17	04-Dec-17	02-Oct-17	04-Dec-17	27	$18,192.24	$18,192.24	0
FEB21005	FEB2 Architecture Study - Configuration and Clock Distribution	40	04-Dec-17	31-Jan-18	04-Dec-17	31-Jan-18	27	$18,192.24	$18,192.24	0
FEB21008	FEB2 Architecture Study - Powering	41	31-Jan-18	30-Mar-18	31-Jan-18	30-Mar-18	27	$18,192.24	$18,192.24	0
FEB21009	Wait	65	30-Mar-18	02-Jul-18	30-Mar-18	02-Jul-18	27	$0.00	$0.00	0
FEB21010	COTS ADC Performance Testing	45	02-Jul-18	05-Sep-18	02-Jul-18	05-Sep-18	27	$0.00	$0.00	0
FEB21015	Analog Test Board Schematics Design	30	16-Oct-18	27-Nov-18	16-Oct-18*	27-Nov-18	0	$63,187.20	$63,187.20	0
FEB21020	Analog Test Board Layout Design	30	28-Nov-18	10-Jan-19	28-Nov-18	10-Jan-19	120	$60,002.33	$60,002.33	0
FEB21030T	Travel for Analog Test Board Design Review	22	11-Jan-19	11-Feb-19	11-Jan-19	11-Feb-19	121	$2,121.80	$2,673.47	0
FEB21030	Analog Test Board Design Review	23	11-Jan-19	12-Feb-19	11-Jan-19	12-Feb-19	120	$35,803.38	$35,803.38	0
FEB21042R	REQD: Received Pre-Prototype2 ADC Chips from Nevis/UT Austin	0	30-Jan-19		30-Jan-19		149	$0.00	$0.00	0
FEB21040	Analog Test Board Design Finalization	20	13-Feb-19	13-Mar-19	13-Feb-19	13-Mar-19	120	$29,969.99	$29,969.99	0
FEB21045R	REQD: Received Pre-Prototype2 PA/shaper Chips from BNL	0	12-Mar-19		12-Mar-19		122	$0.00	$0.00	0
FEB21050	Milestone: Analog Test Board Design Completed	0		12-Mar-19		12-Mar-19	122	$0.00	$0.00	0
FEB21055M	Material for Analog Test Board Fabrication	43	14-Mar-19	13-May-19	14-Mar-19	13-May-19	122	$16,024.89	$16,024.89	0
FEB21055	Analog Test Board Fabrication	45	14-Mar-19	15-May-19	14-Mar-19	15-May-19	120	$31,621.45	$31,621.45	0
FEB21060M	Material for Analog Test Board Functional Test	42	16-May-19	16-Jul-19	16-May-19	16-Jul-19	122	$5,304.50	$5,304.50	0
FEB21060T	Travel for Analog Test Board Functional Test	42	16-May-19	16-Jul-19	16-May-19	16-Jul-19	122	$2,121.80	$2,673.47	0
FEB21060	Analog Test Board Functional Test	44	16-May-19	18-Jul-19	16-May-19	18-Jul-19	120	$53,562.86	$53,562.86	0
FEB21065	Milestone Analog Test Board Functional Test Completed	0		18-Jul-19		18-Jul-19	120	$0.00	$0.00	0
FEB21070	Analog Test Board Performance Test	41	18-Jul-19	16-Sep-19	18-Jul-19	16-Sep-19	120	$47,734.37	$47,734.37	0
FEB21080	Milestone: Completion of Analog Test Board	0		16-Sep-19		16-Sep-19	120	$0.00	$0.00	0
FEB21085EX	External Milestone: ATLAS Specifications Review	0		16-Sep-19		16-Sep-19	120	$0.00	$0.00	0
6.04.02.01.02 LAr FEB2 Slice Design PCB (PA/shaper + ADC + (		155	16-Sep-19	28-Apr-20	16-Sep-19	28-Apr-20	96	$194,784.11	$195,415.98	0
Slice Test Board Design		155	16-Sep-19	28-Apr-20	16-Sep-19	28-Apr-20	96	$194,784.11	$195,415.98	0
FEB21090	Slice Test Board Schematics Design	45	16-Sep-19	19-Nov-19	16-Sep-19	19-Nov-19	120	$64,656.28	$64,656.28	0
FEB21100	Slice Test Board Layout Design	43	19-Nov-19	22-Jan-20	19-Nov-19	22-Jan-20	120	$61,802.38	$61,802.38	0
FEB21122R	REQD: Received Pre-Prototype3 ADC Chips from Nevis/UT Austin	0	22-Jan-20		22-Jan-20		163	$0.00	$0.00	0
FEB21110T	Travel for Slice Test Board Design Review	21	22-Jan-20	21-Feb-20	22-Jan-20	21-Feb-20	121	$2,121.80	$2,753.67	0
FEB21110	Slice Test Board Design Review	22	22-Jan-20	24-Feb-20	22-Jan-20	24-Feb-20	120	$35,712.75	$35,712.75	0

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEB21120	Slice Test Board Design Finalization	21	24-Feb-20	24-Mar-20	24-Feb-20	24-Mar-20	120	$30,490.90	$30,490.90	0
FEB21124R	REQD: Received Pre-Prototype3 Serializer Chips from SMU	0	01-Apr-20		01-Apr-20		115	$0.00	$0.00	0
FEB21126R	REQD: Received Pre-Prototype3 Otx Modules from SMU	0	01-Apr-20		01-Apr-20		115	$0.00	$0.00	0
FEB21128R	REQD: Received Pre-Prototype3 PA/Shaper Chips from BNL	0	28-Apr-20		28-Apr-20*		96	$0.00	$0.00	0
FEB21130	Milestone: Slice Test Board Design Completed	0		28-Apr-20		28-Apr-20	96	$0.00	$0.00	0
6.04.02.01.03 LAr FEB2 Slice Test PCB (PA/shaper + ADC + Opt		**256**	**28-Apr-20**	**02-Nov-20**	**28-Apr-20**	**30-Apr-21**	**1876**	**$242,905.04**	**$337,333.14**	**-125**
Slice Test Board Testing		**256**	**28-Apr-20**	**02-Nov-20**	**28-Apr-20**	**30-Apr-21**	**1876**	**$242,905.04**	**$337,333.14**	**-125**
FEB21135	Slice Test Board Fabrication	130	28-Apr-20	29-Jun-20	28-Apr-20	30-Oct-20	96	$43,545.77	$43,756.84	-86
FEB21135M	Material for Slice Test Board Fabrication	130	28-Apr-20	26-Jun-20	28-Apr-20	30-Oct-20	1971	$38,192.40	$39,528.81	-87
FEB21140	Slice Test Board Functional Test	86	30-Jun-20	01-Sep-20	30-Jun-20	30-Oct-20	96	$88,583.60	$62,512.59	-41
FEB21140M	Material for Slice Test Board Functional Test	86	30-Jun-20	31-Aug-20	30-Jun-20	30-Oct-20	97	$5,304.50	$5,244.79	-42
FEB21150	Slice Test Board Performance Test	41	02-Sep-20	02-Nov-20	02-Sep-20*	30-Oct-20	82	$65,156.97	$6,590.94	1
FEB21135M2	Material for Slice Test Board Fabrication(2)	31			02-Nov-20	15-Dec-20	1971	$0.00	$7,426.30	
FEB21140M2	Material for Slice Test Board Functional Test(2)	41			02-Nov-20	30-Dec-20	97	$0.00	$4,243.60	
FEB21136	Slice Test Board Fabrication(2)	42			02-Nov-20	31-Dec-20	1960	$0.00	$37,899.24	
FEB21140T	Travel for Slice Test Board Functional Test	42	30-Jun-20	31-Aug-20	02-Nov-20	31-Dec-20	96	$2,121.80	$3,646.65	-84
FEB21141	Slice Test Board Functional Test(2)	42			02-Nov-20	31-Dec-20	96	$0.00	$60,407.10	
FEB21151	Slice Test Board Performance Test(2)	126			02-Nov-20	30-Apr-21	82	$0.00	$66,076.28	
FEB21145	Milestone: Milestone: Slice Test Board Functional Test Completed	0		01-Sep-20		31-Dec-20	96	$0.00	$0.00	-83
FEB21147	Milestone: AVAIL-1 Slice Test Board for BNL	0		01-Sep-20		31-Dec-20	1960	$0.00	$0.00	-83
FEB21160	Milestone: Completion of Slice Test Board	0		02-Nov-20		30-Apr-21	82	$0.00	$0.00	-125
FEB21165EX	External Milestone: ATLAS PDR	0		02-Nov-20		30-Apr-21	82	$0.00	$0.00	-125
6.04.02.01.04 LAr FEB2 Prototype		**394**	**02-Nov-20**	**13-Jun-22**	**03-May-21**	**21-Nov-22**	**111**	**$856,140.03**	**$885,268.88**	**-113**
No AP2 Task Group - Temp		**394**	**02-Nov-20**	**13-Jun-22**	**03-May-21**	**21-Nov-22**	**111**	**$856,140.03**	**$885,268.88**	**-113**
FEB21170	Prototype Board Schematics Design	43	02-Nov-20	05-Jan-21	03-May-21	01-Jul-21	82	$90,175.10	$90,175.10	-125
FEB21204R	REQD: Received Prototype PA/Shaper Chips from BNL	0	27-May-21		27-May-21		195	$0.00	$0.00	0
FEB21208R	REQD: Received Prototype Otx Modules from SMU	0	12-Apr-21		09-Jun-21		187	$0.00	$0.00	-40
FEB21180	Prototype Board Layout Design	45	05-Jan-21	10-Mar-21	01-Jul-21	03-Sep-21	82	$69,314.97	$69,314.97	-125
FEB21202R	REQD: Received Prototype ADC Chips from Nevis/UT Austin	0	02-Apr-21		01-Sep-21		127	$0.00	$0.00	-106
FEB21190T	Travel for Prototype Board Design Review	20	10-Mar-21	07-Apr-21	03-Sep-21	04-Oct-21	83	$2,121.80	$3,656.90	-125
FEB21190	Prototype Board Design Review	21	10-Mar-21	08-Apr-21	03-Sep-21	05-Oct-21	82	$50,435.67	$50,642.64	-125

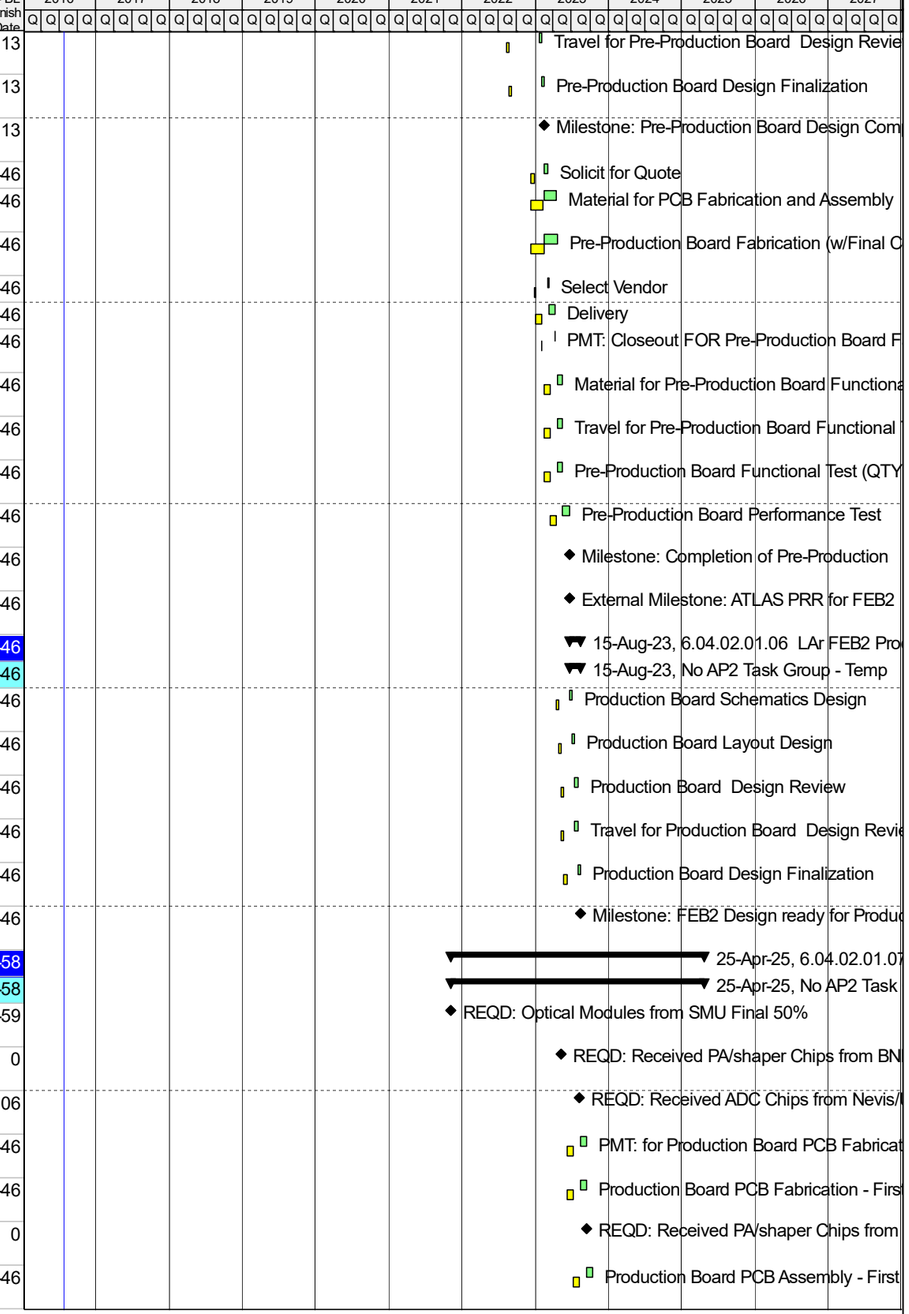
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEB21195	Prototype Board Design Finalization	22	08-Apr-21	10-May-21	05-Oct-21	05-Nov-21	82	$34,722.23	$35,763.01	-125
FEB21200	Milestone: Prototype Board Design Completed	0		10-May-21		05-Nov-21	82	$0.00	$0.00	-125
FEB21210M	Material for Prototype Board Fabrication	41	27-May-21	27-Jul-21	05-Nov-21	06-Jan-22	84	$7,180.17	$7,845.77	-113
FEB21210	Prototype Board Fabrication	43	27-May-21	29-Jul-21	05-Nov-21	10-Jan-22	82	$46,493.74	$47,887.36	-113
FEB21220M	Material for Prototype Board Functional Test	43	29-Jul-21	29-Sep-21	10-Jan-22	11-Mar-22	83	$84,872.00	$92,739.63	-113
FEB21220T	Travel for Prototype Board Functional Test	43	29-Jul-21	29-Sep-21	10-Jan-22	11-Mar-22	83	$2,121.80	$3,755.96	-113
FEB21220	Prototype Board Functional Test	44	29-Jul-21	30-Sep-21	10-Jan-22	14-Mar-22	82	$83,245.10	$85,740.53	-113
FEB21225	Milestone: Prototype Board Functional Test Completed	0		30-Sep-21		14-Mar-22	82	$0.00	$0.00	-113
FEB21230	Prototype Board Performance Test	43	30-Sep-21	02-Dec-21	14-Mar-22	12-May-22	82	$88,421.82	$89,222.10	-113
FEB21235	Milestone: Start 20 Prototype Board Fabrication	0		02-Dec-21		12-May-22	82	$0.00	$0.00	-113
FEB21240T	Travel for 20 Prototype Board Fabrication	39	02-Dec-21	28-Jan-22	12-May-22	08-Jul-22	85	$2,121.80	$3,755.96	-113
FEB21240	20 Prototype Board Fabrication	42	02-Dec-21	02-Feb-22	12-May-22	13-Jul-22	82	$54,057.41	$54,057.41	-113
FEB21240M	Material for 20 Prototype Board Fabrication	1	01-Feb-22	02-Feb-22	12-Jul-22	13-Jul-22	82	$71,801.71	$78,457.73	-113
FEB21245	20 Prototype Board Functional Test	20	02-Feb-22	03-Mar-22	13-Jul-22	10-Aug-22	82	$79,735.56	$79,735.56	-113
FEB21250M	Material for Ship 16 FEB2 Prototypes Boards to BNL	4	03-Mar-22	09-Mar-22	10-Aug-22	16-Aug-22	83	$5,304.50	$5,796.23	-113
FEB21250	Ship 16 FEB2 Prototypes Boards to BNL	5	03-Mar-22	10-Mar-22	10-Aug-22	17-Aug-22	82	$7,121.64	$7,121.64	-113
FEB21250A	AVAIL: 16 FEB2 Prototype Boards for BNL	0		10-Mar-22		17-Aug-22	111	$0.00	$0.00	-113
FEB21260	Prototype Board Performance Test in FEC Test BNL	44	10-Mar-22	11-May-22	17-Aug-22	20-Oct-22	82	$56,704.46	$57,202.44	-113
FEB21260T	Travel for Prototype Board Performance Test in FEC Test BNL	44	10-Mar-22	11-May-22	17-Aug-22	20-Oct-22	82	$2,121.80	$3,788.95	-113
FEB21270	Document FEB2 Results of FEC Test	22	11-May-22	13-Jun-22	20-Oct-22	21-Nov-22	82	$18,066.77	$18,609.00	-113
FEB21280	Milestone: Completion of Prototype	0		13-Jun-22		21-Nov-22	82	$0.00	$0.00	-113
FEB21282EX	External Milestone: ATLAS FDR for FEB2	0		13-Jun-22		21-Nov-22	111	$0.00	$0.00	-113
6.04.02.01.05 LAr FEB2 Preproduction (w/final components)		**218**	**13-Jun-22**	**13-Apr-23**	**09-Aug-22**	**19-Jun-23**	**82**	**$1,657,365.09**	**$1,673,766.87**	**-46**
No AP2 Task Group - Temp		**218**	**13-Jun-22**	**13-Apr-23**	**09-Aug-22**	**19-Jun-23**	**82**	**$1,657,365.09**	**$1,673,766.87**	**-46**
FEB21328R	REQD: Received PA/shaper Chips from BNL - First 25%	0	09-Aug-22		09-Aug-22		215	$0.00	$0.00	0
FEB21324R	REQD: Received ADC Chips from Nevis/UT Austin - First 12% -	0	20-Jun-22		18-Nov-22		143	$0.00	$0.00	-106
FEB21290	Pre-Production Board Schematics Design	20	13-Jun-22	12-Jul-22	21-Nov-22	20-Dec-22	82	$65,550.27	$67,517.60	-113
FEB21300	Pre-Production Board Layout Design	20	12-Jul-22	09-Aug-22	20-Dec-22	19-Jan-23	82	$58,784.16	$60,548.43	-113
FEB21329R	REQD: Optical Modules from SMU 1ST 50%	0	12-Dec-22		10-Jan-23		109	$0.00	$0.00	-19
FEB21310	Pre-Production Board Design Review	10	09-Aug-22	23-Aug-22	19-Jan-23	02-Feb-23	82	$33,451.74	$34,455.72	-113



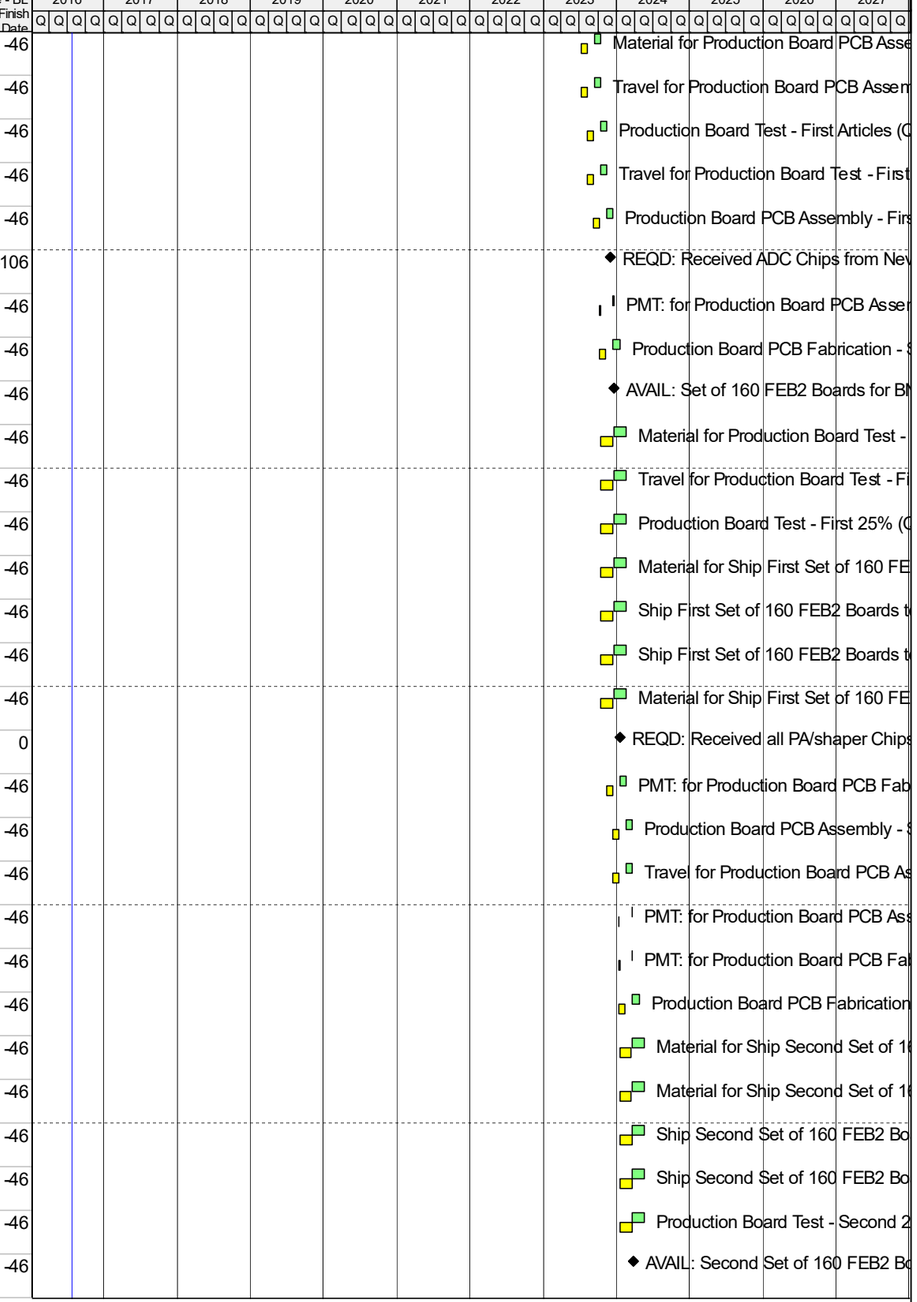
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEB21310T	Travel for Pre-Production Board Design Review	10	09-Aug-22	23-Aug-22	19-Jan-23	02-Feb-23	82	$2,121.80	$3,868.70	-113
FEB21320	Pre-Production Board Design Finalization	10	23-Aug-22	07-Sep-22	02-Feb-23	16-Feb-23	82	$33,451.74	$34,455.72	-113
FEB21322	Milestone: Pre-Production Board Design Completed	0		07-Sep-22		16-Feb-23	82	$0.00	$0.00	-113
FEB21330M10	Solicit for Quote	10	12-Dec-22	27-Dec-22	16-Feb-23	03-Mar-23	89	$0.00	$0.00	-46
FEB21332M	Material for PCB Fabrication and Assembly	41	12-Dec-22	09-Feb-23	16-Feb-23	17-Apr-23	84	$35,900.86	$40,406.41	-46
FEB21330	Pre-Production Board Fabrication (w/Final Components)	43	12-Dec-22	13-Feb-23	16-Feb-23	19-Apr-23	82	$35,910.73	$35,910.73	-46
FEB21330M20	Select Vendor	5	27-Dec-22	04-Jan-23	03-Mar-23	10-Mar-23	89	$0.00	$0.00	-46
FEB21330M30	Delivery	20	04-Jan-23	01-Feb-23	10-Mar-23	07-Apr-23	89	$0.00	$0.00	-46
FEB21330M40	PMT: Closeout FOR Pre-Production Board Fabrication (w/Final Components)	1	01-Feb-23	02-Feb-23	07-Apr-23	10-Apr-23	89	$1,219,048.00	$1,219,048.00	-46
FEB21340M	Material for Pre-Production Board Functional Test (QTY = 10)	21	13-Feb-23	15-Mar-23	19-Apr-23	18-May-23	83	$21,218.00	$23,880.86	-46
FEB21340T	Travel for Pre-Production Board Functional Test (QTY = 10)	21	13-Feb-23	15-Mar-23	19-Apr-23	18-May-23	83	$2,121.80	$3,868.70	-46
FEB21340	Pre-Production Board Functional Test (QTY = 10)	22	13-Feb-23	16-Mar-23	19-Apr-23	19-May-23	82	$71,479.39	$71,479.39	-46
FEB21350	Pre-Production Board Performance Test	20	16-Mar-23	13-Apr-23	19-May-23	19-Jun-23	82	$78,326.61	$78,326.61	-46
FEB21360	Milestone: Completion of Pre-Production	0		13-Apr-23		19-Jun-23	82	$0.00	$0.00	-46
FEB21365EX	External Milestone: ATLAS PRR for FEB2	0		13-Apr-23		19-Jun-23	82	$0.00	$0.00	-46
6.04.02.01.06 LAr FEB2 Production Design		**40**	**13-Apr-23**	**09-Jun-23**	**19-Jun-23**	**15-Aug-23**	**82**	**$156,476.77**	**$158,223.67**	**-46**
No AP2 Task Group - Temp		**40**	**13-Apr-23**	**09-Jun-23**	**19-Jun-23**	**15-Aug-23**	**82**	**$156,476.77**	**$158,223.67**	**-46**
FEB21370	Production Board Schematics Design	10	13-Apr-23	27-Apr-23	19-Jun-23	03-Jul-23	82	$38,588.74	$38,588.74	-46
FEB21380	Production Board Layout Design	10	27-Apr-23	11-May-23	03-Jul-23	18-Jul-23	82	$38,588.74	$38,588.74	-46
FEB21390	Production Board Design Review	10	11-May-23	25-May-23	18-Jul-23	01-Aug-23	82	$38,588.74	$38,588.74	-46
FEB21390T	Travel for Production Board Design Review	10	11-May-23	25-May-23	18-Jul-23	01-Aug-23	82	$2,121.80	$3,868.70	-46
FEB21400	Production Board Design Finalization	10	25-May-23	09-Jun-23	01-Aug-23	15-Aug-23	82	$38,588.74	$38,588.74	-46
FEB21410	Milestone: FEB2 Design ready for Production	0	09-Jun-23		15-Aug-23		82	$0.00	$0.00	-46
6.04.02.01.07 LAr FEB2 Production		**879**	**11-Aug-21**	**03-Feb-25**	**04-Nov-21**	**25-Apr-25**	**113**	**$3,759,206.54**	**$4,177,475.89**	**-58**
No AP2 Task Group - Temp		**879**	**11-Aug-21**	**03-Feb-25**	**04-Nov-21**	**25-Apr-25**	**113**	**$3,759,206.54**	**$4,177,475.89**	**-58**
FEB21484R	REQD: Optical Modules from SMU Final 50%	0	11-Aug-21		04-Nov-21		617	$0.00	$0.00	-59
FEB21446R	REQD: Received PA/shaper Chips from BNL - Second 25%	0	10-May-23		10-May-23		235	$0.00	$0.00	0
FEB21442R	REQD: Received ADC Chips from Nevis/UT Austin - Second 25%	0	08-Mar-23		07-Aug-23		173	$0.00	$0.00	-106
FEB21420M	PMT: for Production Board PCB Fabrication - First 25%	21	09-Jun-23	11-Jul-23	15-Aug-23	14-Sep-23	83	$233,006.74	$262,249.09	-46
FEB21420	Production Board PCB Fabrication - First 25%	22	09-Jun-23	12-Jul-23	15-Aug-23	15-Sep-23	82	$15,529.86	$15,529.86	-46
FEB21486R	REQD: Received PA/shaper Chips from BNL - Third 25%	0	13-Sep-23		13-Sep-23		240	$0.00	$0.00	0
FEB21430	Production Board PCB Assembly - First Articles	20	12-Jul-23	09-Aug-23	15-Sep-23	16-Oct-23	82	$28,981.96	$29,411.70	-46



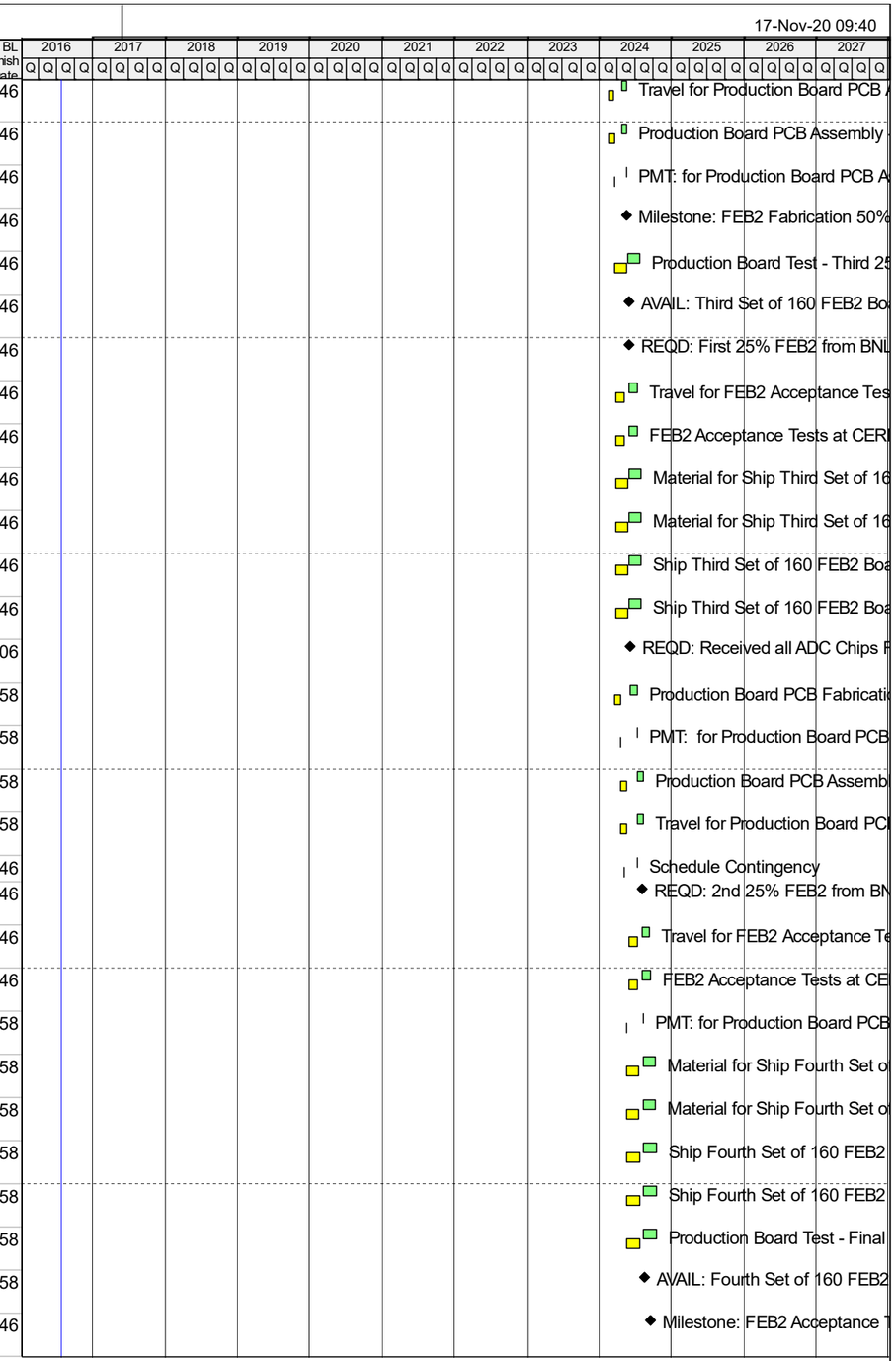
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEB21430M	Material for Production Board PCB Assembly - First Articles	20	12-Jul-23	09-Aug-23	15-Sep-23	16-Oct-23	82	$4,671.24	$5,335.44	-46
FEB21430T	Travel for Production Board PCB Assembly - First Articles	20	12-Jul-23	09-Aug-23	15-Sep-23	16-Oct-23	82	$2,121.80	$3,926.06	-46
FEB21440	Production Board Test - First Articles (QTY = 7)	20	09-Aug-23	07-Sep-23	16-Oct-23	13-Nov-23	82	$91,539.18	$94,288.21	-46
FEB21440T	Travel for Production Board Test - First Articles (QTY = 7)	20	09-Aug-23	07-Sep-23	16-Oct-23	13-Nov-23	82	$2,121.80	$3,984.88	-46
FEB21450	Production Board PCB Assembly - First 25% (QTY = 405)	23	07-Sep-23	10-Oct-23	13-Nov-23	15-Dec-23	82	$27,190.83	$27,758.23	-46
FEB21482R	REQD: Received ADC Chips from Nevis/UT Austin - Third 25%	0	29-Jun-23		30-Nov-23		185	$0.00	$0.00	-106
FEB21450M	PMT: for Production Board PCB Assembly - First 25% (QTY = 405)	1	10-Oct-23	12-Oct-23	15-Dec-23	18-Dec-23	114	$266,761.17	$309,256.23	-46
FEB21490	Production Board PCB Fabrication - Second 25% (QTY = 405)	22	10-Oct-23	10-Nov-23	15-Dec-23	18-Jan-24	82	$12,448.62	$12,448.62	-46
FEB21471A	AVAIL: Set of 160 FEB2 Boards for BNL	0	12-Oct-23		18-Dec-23		114	$0.00	$0.00	-46
FEB21460M	Material for Production Board Test - First 25% (QTY = 405)	42	12-Oct-23	12-Dec-23	18-Dec-23	16-Feb-24	114	$15,913.50	$18,448.52	-46
FEB21460T	Travel for Production Board Test - First 25% (QTY = 405)	42	12-Oct-23	12-Dec-23	18-Dec-23	16-Feb-24	114	$2,121.80	$3,984.88	-46
FEB21460	Production Board Test - First 25% (QTY = 405)	43	12-Oct-23	13-Dec-23	18-Dec-23	20-Feb-24	114	$99,652.86	$99,652.86	-46
FEB21470M	Material for Ship First Set of 160 FEB2 Boards to BNL	43	12-Oct-23	13-Dec-23	18-Dec-23	20-Feb-24	179	$27,371.22	$31,731.46	-46
FEB21470	Ship First Set of 160 FEB2 Boards to BNL	44	12-Oct-23	14-Dec-23	18-Dec-23	21-Feb-24	114	$5,990.38	$5,990.38	-46
FEB21480	Ship First Set of 160 FEB2 Boards to Non-US Test Facility	44	12-Oct-23	14-Dec-23	18-Dec-23	21-Feb-24	179	$5,990.38	$5,990.38	-46
FEB21480M	Material for Ship First Set of 160 FEB2 Boards to Non-US Test Facility	44	12-Oct-23	14-Dec-23	18-Dec-23	21-Feb-24	179	$21,854.54	$25,335.97	-46
FEB21545R	REQD: Received all PA/shaper Chips Final 25%	0	19-Jan-24		19-Jan-24		212	$0.00	$0.00	0
FEB21490M	PMT: for Production Board PCB Fabrication - Second 25% (QTY = 405)	21	13-Nov-23	13-Dec-23	19-Jan-24	20-Feb-24	82	$233,006.74	$270,124.71	-46
FEB21500	Production Board PCB Assembly - Second 25% (QTY = 405)	21	14-Dec-23	15-Jan-24	21-Feb-24	20-Mar-24	82	$22,748.16	$22,748.16	-46
FEB21500T	Travel for Production Board PCB Assembly - Second 25% (QTY = 405)	21	14-Dec-23	15-Jan-24	21-Feb-24	20-Mar-24	83	$2,121.80	$3,984.88	-46
FEB21500M	PMT: for Production Board PCB Assembly - Second 25% (QTY = 405)	1	16-Jan-24	16-Jan-24	21-Mar-24	21-Mar-24	82	$271,432.41	$314,671.59	-46
FEB21550M	PMT: for Production Board PCB Fabrication - Third 25% (QTY = 405)	1	16-Jan-24	17-Jan-24	21-Mar-24	22-Mar-24	131	$233,006.53	$270,124.47	-46
FEB21550	Production Board PCB Fabrication - Third 25% (QTY = 405)	23	16-Jan-24	15-Feb-24	21-Mar-24	22-Apr-24	109	$6,395.97	$6,395.97	-46
FEB21530M	Material for Ship Second Set of 160 FEB2 Boards to BNL	42	17-Jan-24	15-Mar-24	22-Mar-24	20-May-24	116	$27,371.22	$31,731.46	-46
FEB21540M	Material for Ship Second Set of 160 FEB2 Boards to Non-US Test Facility	42	17-Jan-24	15-Mar-24	22-Mar-24	20-May-24	116	$21,854.54	$25,335.97	-46
FEB21530	Ship Second Set of 160 FEB2 Boards to BNL	43	17-Jan-24	18-Mar-24	22-Mar-24	21-May-24	82	$3,986.35	$3,986.35	-46
FEB21540	Ship Second Set of 160 FEB2 Boards to Non-US Test Facility	43	17-Jan-24	18-Mar-24	22-Mar-24	21-May-24	116	$3,986.35	$3,986.35	-46
FEB21510	Production Board Test - Second 25% (QTY = 405)	44	17-Jan-24	19-Mar-24	22-Mar-24	22-May-24	82	$85,846.59	$85,846.59	-46
FEB21530A	AVAIL: Second Set of 160 FEB2 Boards for BNL	0		23-Jan-24		28-Mar-24	82	$0.00	$0.00	-46



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEB21560T	Travel for Production Board PCB Assembly - Third 25% (QTY = 405)	20	16-Feb-24	15-Mar-24	23-Apr-24	20-May-24	111	$2,121.80	$3,984.88	-46
FEB21560	Production Board PCB Assembly - Third 25% (QTY = 405)	21	16-Feb-24	18-Mar-24	23-Apr-24	21-May-24	109	$22,748.16	$22,748.16	-46
FEB21560M	PMT: for Production Board PCB Assembly - Third 25% (QTY = 405)	1	19-Mar-24	19-Mar-24	22-May-24	22-May-24	109	$271,432.41	$314,671.59	-46
FEB21541	Milestone: FEB2 Fabrication 50% Complete	0		19-Mar-24		22-May-24	114	$0.00	$0.00	-46
FEB21570	Production Board Test - Third 25% (QTY = 405)	44	20-Mar-24	20-May-24	23-May-24	25-Jul-24	109	$84,179.05	$84,179.05	-46
FEB21580A	AVAIL: Third Set of 160 FEB2 Boards for BNL	0	27-Mar-24		31-May-24		109	$0.00	$0.00	-46
FEB21719R	REQD: First 25% FEB2 from BNL	0	27-Mar-24		31-May-24		97	$0.00	$0.00	-46
FEB21720T	Travel for FEB2 Acceptance Tests at CERN - First 25%	29	27-Mar-24	06-May-24	31-May-24	11-Jul-24	125	$10,609.00	$19,924.40	-46
FEB21720	FEB2 Acceptance Tests at CERN - First 25%	30	27-Mar-24	07-May-24	31-May-24	12-Jul-24	97	$43,045.54	$43,045.54	-46
FEB21580M	Material for Ship Third Set of 160 FEB2 Boards to BNL	42	27-Mar-24	23-May-24	31-May-24	30-Jul-24	174	$27,371.22	$31,731.46	-46
FEB21590M	Material for Ship Third Set of 160 FEB2 Boards to Non-US Test Facility	42	27-Mar-24	23-May-24	31-May-24	30-Jul-24	174	$21,854.54	$25,335.97	-46
FEB21580	Ship Third Set of 160 FEB2 Boards to BNL	43	27-Mar-24	24-May-24	31-May-24	31-Jul-24	109	$3,986.35	$3,986.35	-46
FEB21590	Ship Third Set of 160 FEB2 Boards to Non-US Test Facility	43	27-Mar-24	24-May-24	31-May-24	31-Jul-24	174	$3,986.35	$3,986.35	-46
FEB21542R	REQD: Received all ADC Chips Final 25%	0	09-Jan-24		07-Jun-24		113	$0.00	$0.00	-106
FEB21600	Production Board PCB Fabrication - Final 25% (QTY = 405)	22	19-Mar-24	17-Apr-24	07-Jun-24	10-Jul-24	113	$9,943.59	$9,943.59	-58
FEB21600M	PMT: for Production Board PCB Fabrication - Final 25% (QTY = 405)	1	18-Apr-24	18-Apr-24	10-Jul-24	11-Jul-24	113	$233,006.74	$270,124.71	-58
FEB21610	Production Board PCB Assembly - Final 25% (QTY = 405)	22	19-Apr-24	20-May-24	11-Jul-24	12-Aug-24	113	$27,758.23	$27,758.23	-58
FEB21610T	Travel for Production Board PCB Assembly - Final 25% (QTY = 405)	22	19-Apr-24	20-May-24	11-Jul-24	12-Aug-24	114	$2,121.80	$3,984.88	-58
FEB21725	Schedule Contingency	0	08-May-24	08-May-24	15-Jul-24	15-Jul-24	97	$0.00	$0.00	-46
FEB21729R	REQD: 2nd 25% FEB2 from BNL	0	30-May-24		05-Aug-24		109	$0.00	$0.00	-46
FEB21730T	Travel for FEB2 Acceptance Tests at CERN - Second 25%	29	30-May-24	10-Jul-24	05-Aug-24	13-Sep-24	194	$10,609.00	$19,924.40	-46
FEB21730	FEB2 Acceptance Tests at CERN - Second 25%	30	30-May-24	11-Jul-24	05-Aug-24	16-Sep-24	109	$43,045.54	$43,045.54	-46
FEB21610M	PMT: for Production Board PCB Assembly - Final 25% (QTY = 405)	1	21-May-24	21-May-24	12-Aug-24	13-Aug-24	113	$271,432.41	$314,671.59	-58
FEB21640M	Material for Ship Fourth Set of 160 FEB2 Boards to BNL	41	22-May-24	19-Jul-24	13-Aug-24	10-Oct-24	123	$27,371.22	$31,911.50	-58
FEB21650M	Material for Ship Fourth Set of 160 FEB2 Boards to Non-US Test Facility	41	22-May-24	19-Jul-24	13-Aug-24	10-Oct-24	123	$21,854.54	$25,479.73	-58
FEB21640	Ship Fourth Set of 160 FEB2 Boards to BNL	43	22-May-24	23-Jul-24	13-Aug-24	15-Oct-24	113	$3,986.35	$4,013.49	-58
FEB21650	Ship Fourth Set of 160 FEB2 Boards to Non-US Test Facility	43	22-May-24	23-Jul-24	13-Aug-24	15-Oct-24	123	$3,986.35	$4,013.49	-58
FEB21620	Production Board Test - Final 25% (QTY = 405)	44	22-May-24	24-Jul-24	13-Aug-24	16-Oct-24	113	$120,051.78	$120,932.33	-58
FEB21640A	AVAIL: Fourth Set of 160 FEB2 Boards for BNL	0	30-May-24		20-Aug-24		113	$0.00	$0.00	-58
FEB21740	Milestone: FEB2 Acceptance Tests at CERN - 50% Complete	0		11-Jul-24		16-Sep-24	193	$0.00	$0.00	-46



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEB21630	Milestone: FEB2 Fabrication 100% Complete	0		24-Jul-24		16-Oct-24	120	$0.00	$0.00	-58
FEB21660M	Material for Production Board Debugging/Repair - 1st 50% (QTY =	29	25-Jul-24	04-Sep-24	16-Oct-24	26-Nov-24	120	$15,913.50	$19,002.31	-58
FEB21680M	Material for Ship Final Set of FEB2 Boards to BNL (QTY = 166)	29	25-Jul-24	04-Sep-24	16-Oct-24	26-Nov-24	150	$20,528.42	$24,512.98	-58
FEB21660	Production Board Debugging/Repair - 1st 50% (QTY = 174)	30	25-Jul-24	05-Sep-24	16-Oct-24	27-Nov-24	120	$119,242.82	$122,822.83	-58
FEB21670	Production Board Test - Repaired Sample - 1st 50% (QTY = 174)	30	25-Jul-24	05-Sep-24	16-Oct-24	27-Nov-24	120	$64,701.93	$66,644.37	-58
FEB21680	Ship Final Set of FEB2 Boards to BNL (QTY = 166)	30	25-Jul-24	05-Sep-24	16-Oct-24	27-Nov-24	120	$17,115.37	$17,629.22	-58
FEB21749R	REQD: 3rd 25% FEB2 from BNL	0	22-Aug-24		29-Oct-24		164	$0.00	$0.00	-46
FEB21750T	Travel for FEB2 Acceptance Tests at CERN - Third 25%	29	22-Aug-24	02-Oct-24	29-Oct-24	09-Dec-24	179	$10,609.00	$20,522.50	-46
FEB21750	FEB2 Acceptance Tests at CERN - Third 25%	30	22-Aug-24	03-Oct-24	29-Oct-24	10-Dec-24	164	$43,174.78	$44,337.89	-46
FEB21683M	Material for Production Board Debugging/Repair - 2nd 50% (QTY =	28	06-Sep-24	16-Oct-24	27-Nov-24	09-Jan-25	120	$15,913.50	$19,002.31	-58
FEB21690M	Material for Ship Final Set of FEB2 Boards to Non-US Test Facility (QTY =	28	06-Sep-24	16-Oct-24	27-Nov-24	09-Jan-25	122	$16,390.91	$19,572.38	-58
FEB21683	Production Board Debugging/Repair - 2nd 50% (QTY = 173)	30	06-Sep-24	18-Oct-24	27-Nov-24	13-Jan-25	120	$138,034.57	$140,362.65	-58
FEB21687	Production Board Test - Repaired Sample - 2nd 50% (QTY = 173)	30	06-Sep-24	18-Oct-24	27-Nov-24	13-Jan-25	120	$59,476.01	$60,479.13	-58
FEB21690	Ship Final Set of FEB2 Boards to Non-US Test Facility (QTY = 166)	30	06-Sep-24	18-Oct-24	27-Nov-24	13-Jan-25	120	$17,336.82	$17,629.22	-58
FEB21700	MS Tier 2 Physics Division: FEB2 Delivery Complete	0		18-Oct-24		13-Jan-25	120	$0.00	$0.00	-58
FEB21710	Finalize FEB2 Documentation	66	18-Oct-24	23-Jan-25	13-Jan-25	16-Apr-25	120	$124,295.50	$124,295.50	-58
FEB21759R	REQD: Final 25% FEB2 from BNL	0	20-Dec-24		14-Mar-25		113	$0.00	$0.00	-58
FEB21760T	Travel for FEB2 Acceptance Tests at CERN - Final 25%	29	20-Dec-24	31-Jan-25	14-Mar-25	24-Apr-25	114	$10,609.00	$12,668.21	-58
FEB21760	FEB2 Acceptance Tests at CERN - Final 25%	30	20-Dec-24	03-Feb-25	14-Mar-25	25-Apr-25	113	$44,337.89	$44,337.89	-58
FEB21770	Milestone: FEB2 Acceptance Tests at CERN - 100% Complete	0		03-Feb-25		25-Apr-25	113	$0.00	$0.00	-58
6.04.02.01.08 Software License		**1874**	**03-Oct-16**	**01-Mar-24**	**03-Oct-16**	**01-Mar-24**	**405**	**$24,845.24**	**$39,480.03**	**0**
No AP2 Task Group - Temp		**1874**	**03-Oct-16**	**01-Mar-24**	**03-Oct-16**	**01-Mar-24**	**405**	**$24,845.24**	**$39,480.03**	**0**
FEB21780	PADS Software License from Mentor FY17	103	03-Oct-16	01-Mar-17	03-Oct-16	01-Mar-17	405	$0.00	$0.00	0
FEB21780M	Material for PADS Software License from Mentor FY17	1	01-Mar-17	01-Mar-17	01-Mar-17	01-Mar-17	405	$2,970.00	$3,742.20	0
FEB21790	PADS Software License from Mentor FY18	253	02-Mar-17	01-Mar-18	02-Mar-17	01-Mar-18	405	$0.00	$0.00	0
FEB21790M	Material for PADS Software License from Mentor FY18	1	01-Mar-18	01-Mar-18	01-Mar-18	01-Mar-18	405	$2,970.00	$3,854.47	0
FEB21800	PADS Software License from Mentor FY19	253	02-Mar-18	01-Mar-19	02-Mar-18	01-Mar-19	405	$0.00	$0.00	0
FEB21800M	Material for PADS Software License from Mentor FY19	1	01-Mar-19	01-Mar-19	01-Mar-19	01-Mar-19	405	$3,150.87	$3,970.10	0
FEB21810	PADS Software License from Mentor FY20	253	04-Mar-19	02-Mar-20	04-Mar-19	02-Mar-20	405	$0.00	$0.00	0
FEB21810M	Material for PADS Software License from Mentor FY20	1	02-Mar-20	02-Mar-20	02-Mar-20	02-Mar-20	405	$3,150.87	$5,257.55	0

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

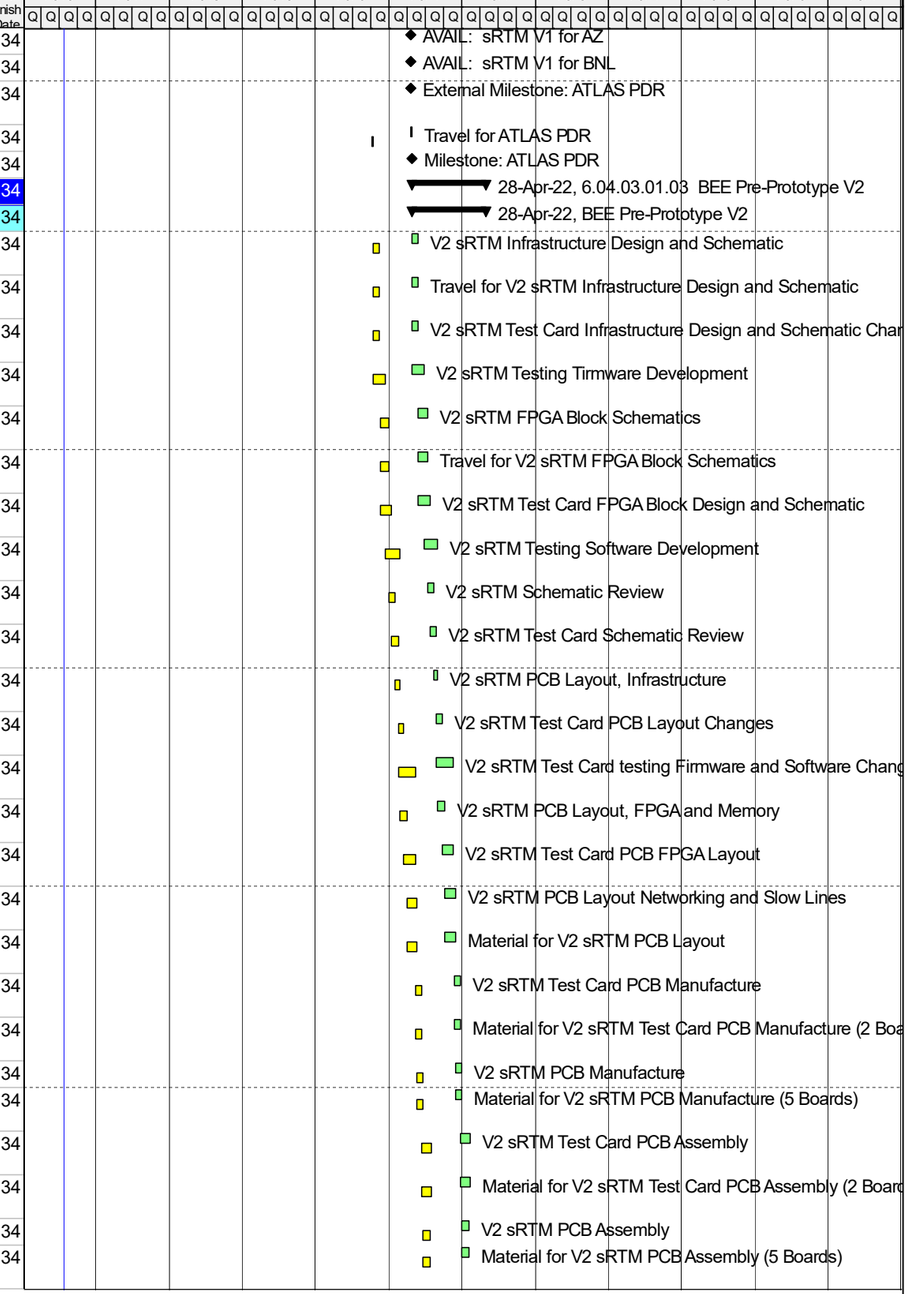
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
FEB21820	PADS Software License from Mentor FY21	252	03-Mar-20	01-Mar-21	03-Mar-20	01-Mar-21	405	$0.00	$0.00	0
FEB21820M	Material for PADS Software License from Mentor FY21	1	01-Mar-21	01-Mar-21	01-Mar-21	01-Mar-21	405	$3,150.87	$5,415.41	0
FEB21830	PADS Software License from Mentor FY22	253	02-Mar-21	01-Mar-22	02-Mar-21	01-Mar-22	405	$0.00	$0.00	0
FEB21830M	Material for PADS Software License from Mentor FY22	1	01-Mar-22	01-Mar-22	01-Mar-22	01-Mar-22	405	$3,150.87	$5,577.68	0
FEB21840	PADS Software License from Mentor FY23	253	02-Mar-22	01-Mar-23	02-Mar-22	01-Mar-23	405	$0.00	$0.00	0
FEB21840M	Material for PADS Software License from Mentor FY23	1	01-Mar-23	01-Mar-23	01-Mar-23	01-Mar-23	405	$3,150.87	$5,744.99	0
FEB21850	PADS Software License from Mentor FY24	254	02-Mar-23	01-Mar-24	02-Mar-23	01-Mar-24	405	$0.00	$0.00	0
FEB21850M	Material for PADS Software License from Mentor FY24	1	01-Mar-24	01-Mar-24	01-Mar-24	01-Mar-24	405	$3,150.87	$5,917.65	0
6.04.03 BE Electronics		2022	02-Oct-17	29-Sep-25	02-Oct-17	29-Sep-25	760	$5,688,758.23	$5,897,934.53	0
6.04.03.01 BE-Electronics-SB		1907	02-Jan-18	03-Jan-25	02-Jan-18	15-Jul-25	813	$4,580,813.25	$4,729,910.38	-134
6.04.03.01.01 BEE Pre-Prototype V1 Design		465	02-Jan-18	31-Oct-19	02-Jan-18	31-Oct-19	173	$182,719.38	$184,076.10	0
BEE Pre-Prototype V1 Design		465	02-Jan-18	31-Oct-19	02-Jan-18	31-Oct-19	173	$182,719.38	$184,076.10	0
BEE10010	Evaluate Phase I LASP MB and AMC Parts Obsolence	34	02-Jan-18	16-Feb-18	02-Jan-18*	16-Feb-18	0	$0.00	$0.00	0
BEE10020	Study New Phase I LASP MB and AMC Parts	31	20-Feb-18	03-Apr-18	20-Feb-18	03-Apr-18	65	$0.00	$0.00	0
BEE10030	Select FPGA, GbE Switch and Major Parts Needing Replacement	44	04-Apr-18	05-Jun-18	04-Apr-18	05-Jun-18	65	$0.00	$0.00	0
BEE10040	Purchase FPGA Evaluation Board and Develop Simple Example Firmware	28	06-Jun-18	16-Jul-18	06-Jun-18	16-Jul-18	65	$0.00	$0.00	0
BEE10040M	Material for Purchasing FPGA Evaluation Board and Develop Simple	28	06-Jun-18	16-Jul-18	06-Jun-18	16-Jul-18	65	$5,000.00	$5,000.00	0
BEE10050	Further Develop V1 Firmware	29	17-Jul-18	24-Aug-18	17-Jul-18	24-Aug-18	65	$0.00	$0.00	0
BEE10060	Debug V1 Firmware	29	27-Aug-18	05-Oct-18	27-Aug-18	05-Oct-18	65	$0.00	$0.00	0
BEE10070	Milestone: I/O and Architecture Conceptual Design	0		05-Oct-18		05-Oct-18	65	$0.00	$0.00	0
BEE10075A	AVAIL: I/O and Architecture Conceptual Design	0		05-Oct-18		05-Oct-18	65	$0.00	$0.00	0
BEE10080	sRTM V1 Designs	45	08-Oct-18	11-Dec-18	08-Oct-18	11-Dec-18	143	$13,121.42	$13,121.42	0
BEE10085	Purchase Xilinx FPGA Evaluation Board and Develop Simple Example Firmware	45	08-Oct-18	11-Dec-18	08-Oct-18	11-Dec-18	269	$0.00	$0.00	0
BEE10085M	Material for Purchase Xilinx FPGA Evaluation Board and Develop Simple	45	08-Oct-18	11-Dec-18	08-Oct-18	11-Dec-18	269	$10,000.00	$10,000.00	0
BEE10090	sRTM V1 Schematics, Infrastructure and Power	33	12-Dec-18	29-Jan-19	12-Dec-18	29-Jan-19	143	$0.00	$0.00	0
BEE10095	sRTM V1 Schematics, FPGA	31	30-Jan-19	14-Mar-19	30-Jan-19	14-Mar-19	143	$0.00	$0.00	0
BEE10150	sRTM Eval Test Card Infrastructure Design and Schematic	30	15-Mar-19	25-Apr-19	15-Mar-19	25-Apr-19	156	$11,550.55	$11,550.55	0
BEE10100	sRTM V1 Schematics, Electro-Optics	32	15-Mar-19	29-Apr-19	15-Mar-19	29-Apr-19	173	$0.00	$0.00	0
BEE10125	sRTM V1 Layout, Infrastructure and Power	43	15-Mar-19	14-May-19	15-Mar-19	14-May-19	143	$0.00	$0.00	0
BEE10125M	Material for sRTM V1 Layout	43	15-Mar-19	14-May-19	15-Mar-19	14-May-19	143	$6,262.37	$6,262.37	0
BEE10160	sRTM Eval Test Card Electro-Optics Block Design and Schematic	20	26-Apr-19	23-May-19	26-Apr-19	23-May-19	156	$21,160.61	$21,160.61	0
BEE10105	sRTM V1 Firmware Development	43	30-Apr-19	28-Jun-19	30-Apr-19	28-Jun-19	173	$0.00	$0.00	0

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE10105M	Material for sRTM V1 Firmware Development	43	30-Apr-19	28-Jun-19	30-Apr-19	28-Jun-19	173	$3,990.35	$5,347.07	0
BEE10130	sRTM V1 Layout, FPGA	42	15-May-19	15-Jul-19	15-May-19	15-Jul-19	143	$0.00	$0.00	0
BEE10170	sRTM Eval Test Card Schematic Review	5	24-May-19	31-May-19	24-May-19	31-May-19	156	$2,864.54	$2,864.54	0
BEE10180	sRTM Eval Test Card Testing Firmware and Software Development	44	24-May-19	26-Jul-19	24-May-19	26-Jul-19	240	$6,143.40	$6,143.40	0
BEE10190	sRTM Eval Test Card PCB Layout, Infrastructure	40	03-Jun-19	29-Jul-19	03-Jun-19	29-Jul-19	156	$23,563.12	$23,563.12	0
BEE10110	sRTM V1 Software Development	43	01-Jul-19	29-Aug-19	01-Jul-19	29-Aug-19	173	$12,474.59	$12,474.59	0
BEE10135	sRTM V1 Layout, Electro-Optics	48	16-Jul-19	20-Sep-19	16-Jul-19	20-Sep-19	143	$0.00	$0.00	0
BEE10195	sRTM Eval Test Card PCB Layout, Electro-Optics	60	30-Jul-19	23-Oct-19	30-Jul-19	23-Oct-19	156	$54,861.60	$54,861.60	0
BEE10120	sRTM V1 Software and Firmware Integration	43	29-Aug-19	31-Oct-19	29-Aug-19	31-Oct-19	173	$11,726.83	$11,726.83	0
BEE10140	sRTM V1 Layout Review	10	23-Sep-19	04-Oct-19	23-Sep-19	04-Oct-19	143	$0.00	$0.00	0
6.04.03.01.02 BEE Pre-Prototype V1 Testing		**271**	**01-Apr-20**	**14-Oct-20**	**01-Apr-20**	**26-Apr-21**	**1880**	**$292,628.79**	**$289,760.36**	**-134**
BEE Pre-Prototype V1 Testing		**271**	**01-Apr-20**	**14-Oct-20**	**01-Apr-20**	**26-Apr-21**	**1880**	**$292,628.79**	**$289,760.36**	**-134**
BEE10200	sRTM V1 PCB Manufacture	20	01-Apr-20	28-Apr-20	01-Apr-20	28-Apr-20	21	$4,662.97	$4,662.97	0
BEE10200M	Material for sRTM V1 PCB Manufacture	20	01-Apr-20	28-Apr-20	01-Apr-20	28-Apr-20	21	$16,750.57	$17,253.09	0
BEE10220	sRTM V1 Test Card PCB Manufacture	23	01-Apr-20	01-May-20	01-Apr-20	01-May-20	46	$4,004.58	$4,004.58	0
BEE10220M	Material for sRTM V1 Test Card PCB Manufacture	23	01-Apr-20	01-May-20	01-Apr-20	01-May-20	46	$23,111.59	$23,804.94	0
BEE10210	sRTM V1 PCB Preseries Assembly	129	29-Apr-20	03-Jun-20	29-Apr-20	30-Oct-20	21	$8,190.21	$8,230.19	-104
BEE10210M	Material for sRTM V1 PCB Preseries Assembly (2 Boards)	129	29-Apr-20	03-Jun-20	29-Apr-20	30-Oct-20	21	$22,662.00	$22,662.00	-104
BEE10230	sRTM V1 Test Card PCB Assembly	126	04-May-20	08-Jun-20	04-May-20	30-Oct-20	46	$7,943.32	$7,983.01	-101
BEE10230M	Material for sRTM V1 Test Card PCB Assembly	126	04-May-20	08-Jun-20	04-May-20	30-Oct-20	46	$12,782.00	$12,782.00	-101
BEE10240	sRTM V1 and V1 Test Card Validation, System	101	09-Jun-20	21-Jul-20	09-Jun-20	30-Oct-20	21	$46,376.03	$20,905.20	-71
BEE10240M	Material for sRTM V1 and V1 Test Card Validation, System	30	09-Jun-20	21-Jul-20	02-Nov-20	14-Dec-20	54	$26,646.91	$28,269.70	-101
BEE10240T	Travel for sRTM V1 and V1 Test Card Validation, System	30	09-Jun-20	21-Jul-20	02-Nov-20	14-Dec-20	54	$1,096.76	$1,563.55	-101
BEE10210M2	Material for sRTM V1 PCB Preseries Assembly (2 Boards) (2)	43			02-Nov-20	04-Jan-21	1959	$0.00	$0.00	
BEE10211	sRTM V1 PCB Preseries Assembly(2)	43			02-Nov-20	04-Jan-21	1959	$0.00	$3,110.44	
BEE10230M2	Material for sRTM V1 Test Card PCB Assembly	43			02-Nov-20	04-Jan-21	1959	$0.00	$0.00	
BEE10231	sRTM V1 Test Card PCB Assembly(2)	43			02-Nov-20	04-Jan-21	1959	$0.00	$3,110.44	
BEE10241	sRTM V1 and V1 Test Card Validation, System(2)	63			02-Nov-20	01-Feb-21	21	$0.00	$9,972.54	
BEE10250	Receive Test LASP	5	22-Jul-20	28-Jul-20	02-Feb-21	08-Feb-21	21	$761.41	$784.24	-134
BEE10250M	Material for Receive Test LASP	5	22-Jul-20	28-Jul-20	02-Feb-21	08-Feb-21	21	$39,000.00	$39,000.00	-134
BEE10260EX	External Milestone: Recieve of Test LASP	0		28-Jul-20		08-Feb-21	21	$0.00	$0.00	-134
BEE10270	sRTM V1 and V1 Test Card Validation, High Speed I/O	50	29-Jul-20	07-Oct-20	09-Feb-21	20-Apr-21	21	$76,369.48	$78,424.00	-134

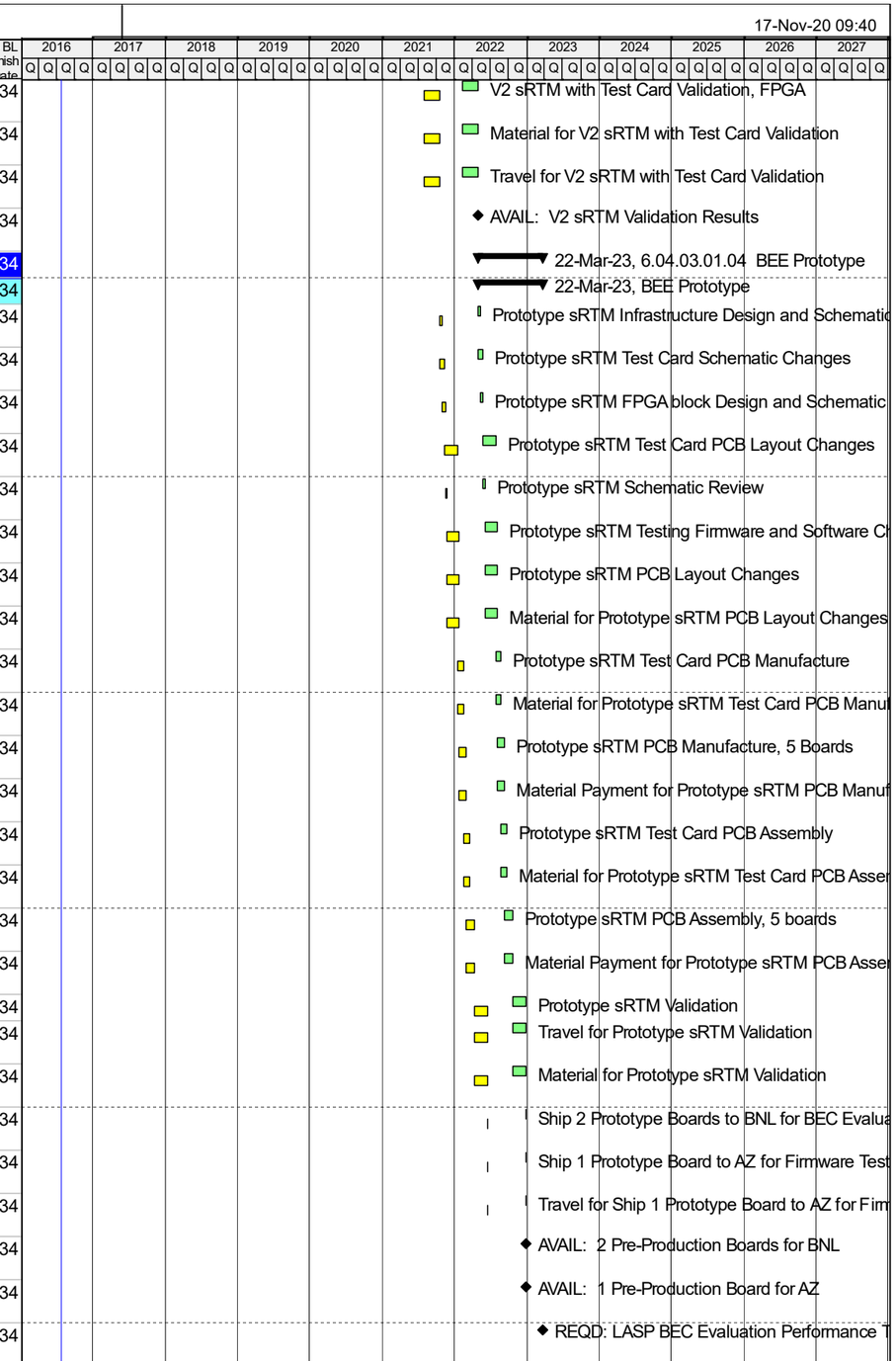
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE10275A	AVAIL: sRTM V1 for AZ	0		07-Oct-20		20-Apr-21	199	$0.00	$0.00	-134
BEE10280A	AVAIL: sRTM V1 for BNL	0		07-Oct-20		20-Apr-21	97	$0.00	$0.00	-134
BEE10285EX	External Milestone: ATLAS PDR	0	08-Oct-20		21-Apr-21		21	$0.00	$0.00	-134
BEE10290T	Travel for ATLAS PDR	4	08-Oct-20	14-Oct-20	21-Apr-21	26-Apr-21	21	$2,270.96	$3,237.48	-134
BEE10295	Milestone: ATLAS PDR	0		14-Oct-20		26-Apr-21	21	$0.00	$0.00	-134
6.04.03.01.03 BEE Pre-Prototype V2		**255**	**15-Oct-20**	**18-Oct-21**	**27-Apr-21**	**28-Apr-22**	**58**	**$531,428.63**	**$544,552.41**	**-134**
BEE Pre-Prototype V2		**255**	**15-Oct-20**	**18-Oct-21**	**27-Apr-21**	**28-Apr-22**	**58**	**$531,428.63**	**$544,552.41**	**-134**
BEE10300	V2 sRTM Infrastructure Design and Schematic	23	15-Oct-20	16-Nov-20	27-Apr-21	27-May-21	24	$21,411.83	$21,411.83	-134
BEE10300T	Travel for V2 sRTM Infrastructure Design and Schematic	23	15-Oct-20	16-Nov-20	27-Apr-21	27-May-21	24	$1,096.76	$1,563.55	-134
BEE10380	V2 sRTM Test Card Infrastructure Design and Schematic Changes	23	15-Oct-20	16-Nov-20	27-Apr-21	27-May-21	21	$18,037.52	$18,037.52	-134
BEE10310	V2 sRTM Testing Tirmware Development	44	15-Oct-20	16-Dec-20	27-Apr-21	28-Jun-21	132	$0.00	$0.00	-134
BEE10320	V2 sRTM FPGA Block Schematics	30	17-Nov-20	30-Dec-20	28-May-21	12-Jul-21	24	$31,369.60	$31,369.60	-134
BEE10320T	Travel for V2 sRTM FPGA Block Schematics	30	17-Nov-20	30-Dec-20	28-May-21	12-Jul-21	24	$1,096.76	$1,563.55	-134
BEE10385	V2 sRTM Test Card FPGA Block Design and Schematic	40	17-Nov-20	14-Jan-21	28-May-21	26-Jul-21	21	$31,369.60	$31,369.60	-134
BEE10335	V2 sRTM Testing Software Development	45	16-Dec-20	22-Feb-21	28-Jun-21	31-Aug-21	132	$6,731.67	$6,731.67	-134
BEE10330	V2 sRTM Schematic Review	22	31-Dec-20	01-Feb-21	13-Jul-21	11-Aug-21	24	$8,920.73	$8,920.73	-134
BEE10390	V2 sRTM Test Card Schematic Review	22	15-Jan-21	16-Feb-21	27-Jul-21	25-Aug-21	21	$5,881.80	$5,881.80	-134
BEE10340	V2 sRTM PCB Layout, Infrastructure	15	02-Feb-21	23-Feb-21	12-Aug-21	01-Sep-21	24	$20,096.15	$20,096.15	-134
BEE10395	V2 sRTM Test Card PCB Layout Changes	20	17-Feb-21	16-Mar-21	26-Aug-21	23-Sep-21	21	$21,566.60	$21,566.60	-134
BEE10405	V2 sRTM Test Card testing Firmware and Software Changes	60	17-Feb-21	11-May-21	26-Aug-21	19-Nov-21	76	$3,038.93	$3,097.38	-134
BEE10345	V2 sRTM PCB Layout, FPGA and Memory	25	24-Feb-21	30-Mar-21	02-Sep-21	07-Oct-21	24	$26,958.25	$27,136.01	-134
BEE10400	V2 sRTM Test Card PCB FPGA Layout	40	17-Mar-21	11-May-21	24-Sep-21	19-Nov-21	21	$31,369.60	$32,274.57	-134
BEE10350	V2 sRTM PCB Layout Networking and Slow Lines	35	31-Mar-21	18-May-21	08-Oct-21	29-Nov-21	24	$31,369.60	$32,403.85	-134
BEE10350M	Material for V2 sRTM PCB Layout	35	31-Mar-21	18-May-21	08-Oct-21	29-Nov-21	24	$6,266.62	$6,847.53	-134
BEE10410	V2 sRTM Test Card PCB Manufacture	23	12-May-21	14-Jun-21	22-Nov-21	23-Dec-21	21	$4,565.45	$4,714.08	-134
BEE10410M	Material for V2 sRTM Test Card PCB Manufacture (2 Boards)	23	12-May-21	14-Jun-21	22-Nov-21	23-Dec-21	21	$23,111.59	$25,254.04	-134
BEE10360	V2 sRTM PCB Manufacture	22	19-May-21	18-Jun-21	30-Nov-21	30-Dec-21	24	$20,292.21	$20,961.24	-134
BEE10360M	Material for V2 sRTM PCB Manufacture (5 Boards)	22	19-May-21	18-Jun-21	30-Nov-21	30-Dec-21	24	$16,750.57	$18,303.35	-134
BEE10415	V2 sRTM Test Card PCB Assembly	32	15-Jun-21	29-Jul-21	27-Dec-21	09-Feb-22	21	$8,740.96	$9,026.50	-134
BEE10415M	Material for V2 sRTM Test Card PCB Assembly (2 Boards)	32	15-Jun-21	29-Jul-21	27-Dec-21	09-Feb-22	21	$35,316.00	$35,316.00	-134
BEE10370	V2 sRTM PCB Assembly	25	21-Jun-21	26-Jul-21	31-Dec-21	04-Feb-22	24	$24,339.47	$25,140.99	-134
BEE10370M	Material for V2 sRTM PCB Assembly (5 Boards)	25	21-Jun-21	26-Jul-21	31-Dec-21	04-Feb-22	24	$51,743.00	$51,743.00	-134



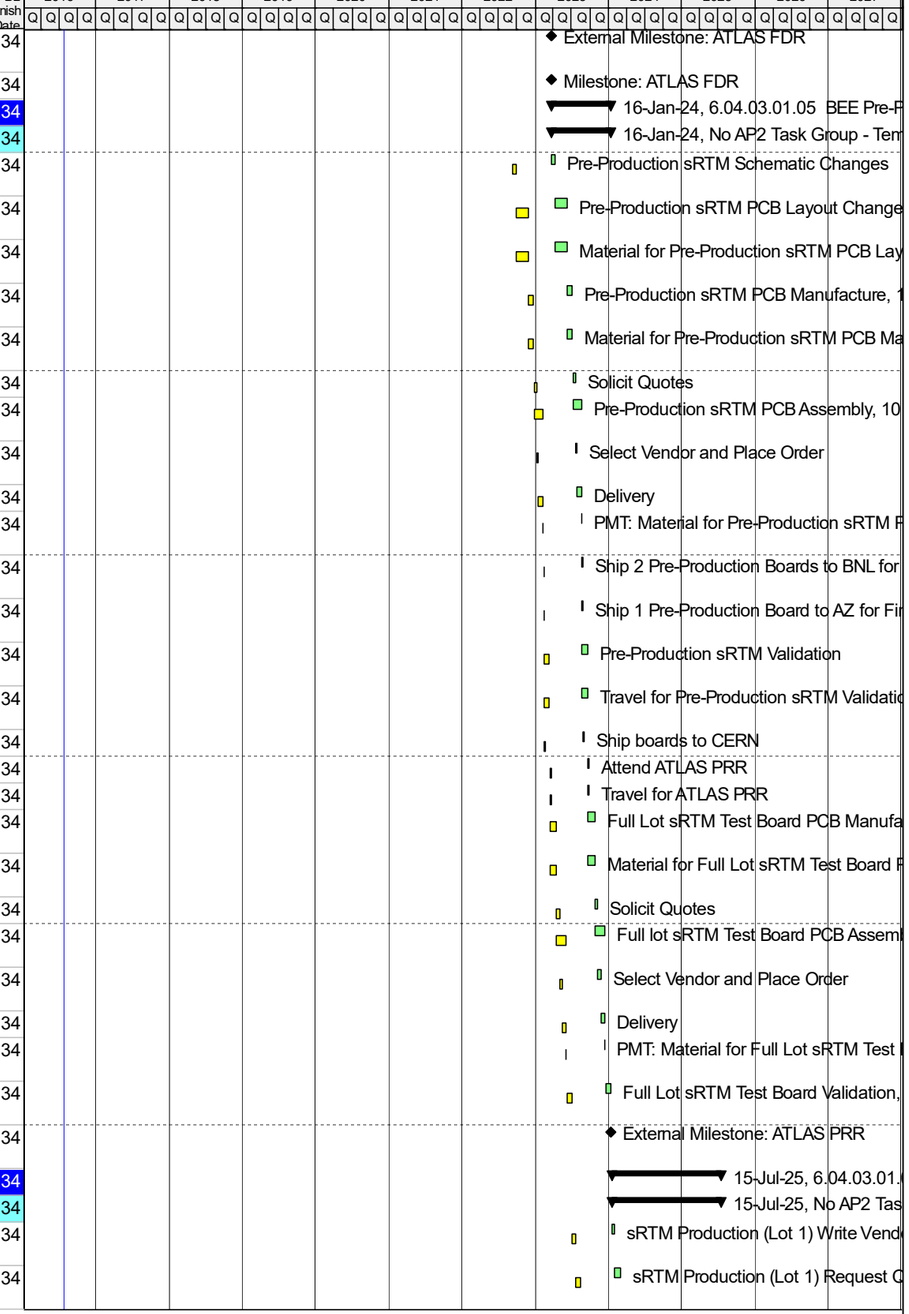
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE10420	V2 sRTM with Test Card Validation, FPGA	55	30-Jul-21	18-Oct-21	10-Feb-22	28-Apr-22	21	$65,126.43	$66,832.93	-134
BEE10420M	Material for V2 sRTM with Test Card Validation	55	30-Jul-21	18-Oct-21	10-Feb-22	28-Apr-22	58	$10,319.00	$10,319.00	-134
BEE10420T	Travel for V2 sRTM with Test Card Validation	55	30-Jul-21	18-Oct-21	10-Feb-22	28-Apr-22	58	$4,541.92	$6,669.35	-134
BEE10425A	AVAIL: V2 sRTM Validation Results	0		18-Oct-21		28-Apr-22	58	$0.00	$0.00	-134
6.04.03.01.04 BEE Prototype		**225**	**19-Oct-21**	**08-Sep-22**	**29-Apr-22**	**22-Mar-23**	**537**	**$369,134.24**	**$381,767.04**	**-134**
BEE Prototype		**225**	**19-Oct-21**	**08-Sep-22**	**29-Apr-22**	**22-Mar-23**	**537**	**$369,134.24**	**$381,767.04**	**-134**
BEE10520	Prototype sRTM Infrastructure Design and Schematic Changes	10	19-Oct-21	01-Nov-21	29-Apr-22	12-May-22	21	$12,151.44	$12,151.44	-134
BEE10620	Prototype sRTM Test Card Schematic Changes	18	19-Oct-21	11-Nov-21	29-Apr-22	24-May-22	41	$14,176.68	$14,176.68	-134
BEE10530	Prototype sRTM FPGA block Design and Schematic Changes	10	02-Nov-21	15-Nov-21	13-May-22	26-May-22	21	$15,594.35	$15,594.35	-134
BEE10630	Prototype sRTM Test Card PCB Layout Changes	45	12-Nov-21	18-Jan-22	25-May-22	28-Jul-22	41	$36,454.33	$36,454.33	-134
BEE10540	Prototype sRTM Schematic Review	5	16-Nov-21	22-Nov-21	27-May-22	03-Jun-22	21	$10,835.04	$10,835.04	-134
BEE10570	Prototype sRTM Testing Firmware and Software Changes	43	23-Nov-21	25-Jan-22	06-Jun-22	04-Aug-22	76	$0.00	$0.00	-134
BEE10590	Prototype sRTM PCB Layout Changes	43	23-Nov-21	25-Jan-22	06-Jun-22	04-Aug-22	21	$34,429.09	$34,429.09	-134
BEE10590M	Material for Prototype sRTM PCB Layout Changes	43	23-Nov-21	25-Jan-22	06-Jun-22	04-Aug-22	21	$6,262.37	$6,842.89	-134
BEE10640	Prototype sRTM Test Card PCB Manufacture	20	19-Jan-22	15-Feb-22	29-Jul-22	25-Aug-22	41	$4,050.48	$4,050.48	-134
BEE10640M	Material for Prototype sRTM Test Card PCB Manufacture	20	19-Jan-22	15-Feb-22	29-Jul-22	25-Aug-22	41	$23,111.59	$25,254.04	-134
BEE10600	Prototype sRTM PCB Manufacture, 5 Boards	23	26-Jan-22	28-Feb-22	05-Aug-22	07-Sep-22	21	$12,654.35	$12,654.35	-134
BEE10600M	Material Payment for Prototype sRTM PCB Manufacture, 5 Boards	23	26-Jan-22	28-Feb-22	05-Aug-22	07-Sep-22	21	$16,750.57	$18,303.35	-134
BEE10650	Prototype sRTM Test Card PCB Assembly	20	16-Feb-22	16-Mar-22	26-Aug-22	23-Sep-22	41	$8,100.96	$8,100.96	-134
BEE10650M	Material for Prototype sRTM Test Card PCB Assembly	20	16-Feb-22	16-Mar-22	26-Aug-22	23-Sep-22	41	$35,316.00	$35,316.00	-134
BEE10610	Prototype sRTM PCB Assembly, 5 boards	32	01-Mar-22	13-Apr-22	08-Sep-22	24-Oct-22	21	$20,018.59	$20,300.22	-134
BEE10610M	Material Payment for Prototype sRTM PCB Assembly, 5 boards	32	01-Mar-22	13-Apr-22	08-Sep-22	24-Oct-22	21	$51,743.00	$51,743.00	-134
BEE10660	Prototype sRTM Validation	44	14-Apr-22	15-Jun-22	25-Oct-22	27-Dec-22	21	$54,943.67	$56,592.72	-134
BEE106560T	Travel for Prototype sRTM Validation	44	14-Apr-22	15-Jun-22	25-Oct-22	27-Dec-22	595	$9,105.05	$13,770.48	-134
BEE10660M	Material for Prototype sRTM Validation	44	14-Apr-22	15-Jun-22	25-Oct-22	27-Dec-22	21	$1,165.71	$1,763.02	-134
BEE10661	Ship 2 Prototype Boards to BNL for BEC Evaluation Performance Test	2	16-Jun-22	17-Jun-22	28-Dec-22	29-Dec-22	59	$0.00	$0.00	-134
BEE10662	Ship 1 Prototype Board to AZ for Firmware Test	2	16-Jun-22	17-Jun-22	28-Dec-22	29-Dec-22	21	$0.00	$0.00	-134
BEE10662T	Travel for Ship 1 Prototype Board to AZ for Firmware Test	2	16-Jun-22	17-Jun-22	28-Dec-22	29-Dec-22	114	$2,270.96	$3,434.60	-134
BEE10665A	AVAIL: 2 Pre-Production Boards for BNL	0		17-Jun-22		29-Dec-22	59	$0.00	$0.00	-134
BEE10666A	AVAIL: 1 Pre-Production Board for AZ	0		17-Jun-22		29-Dec-22	593	$0.00	$0.00	-134
BEE10667R	REQD: LASP BEC Evaluation Performance Test Results	0	08-Sep-22		22-Mar-23		58	$0.00	$0.00	-134



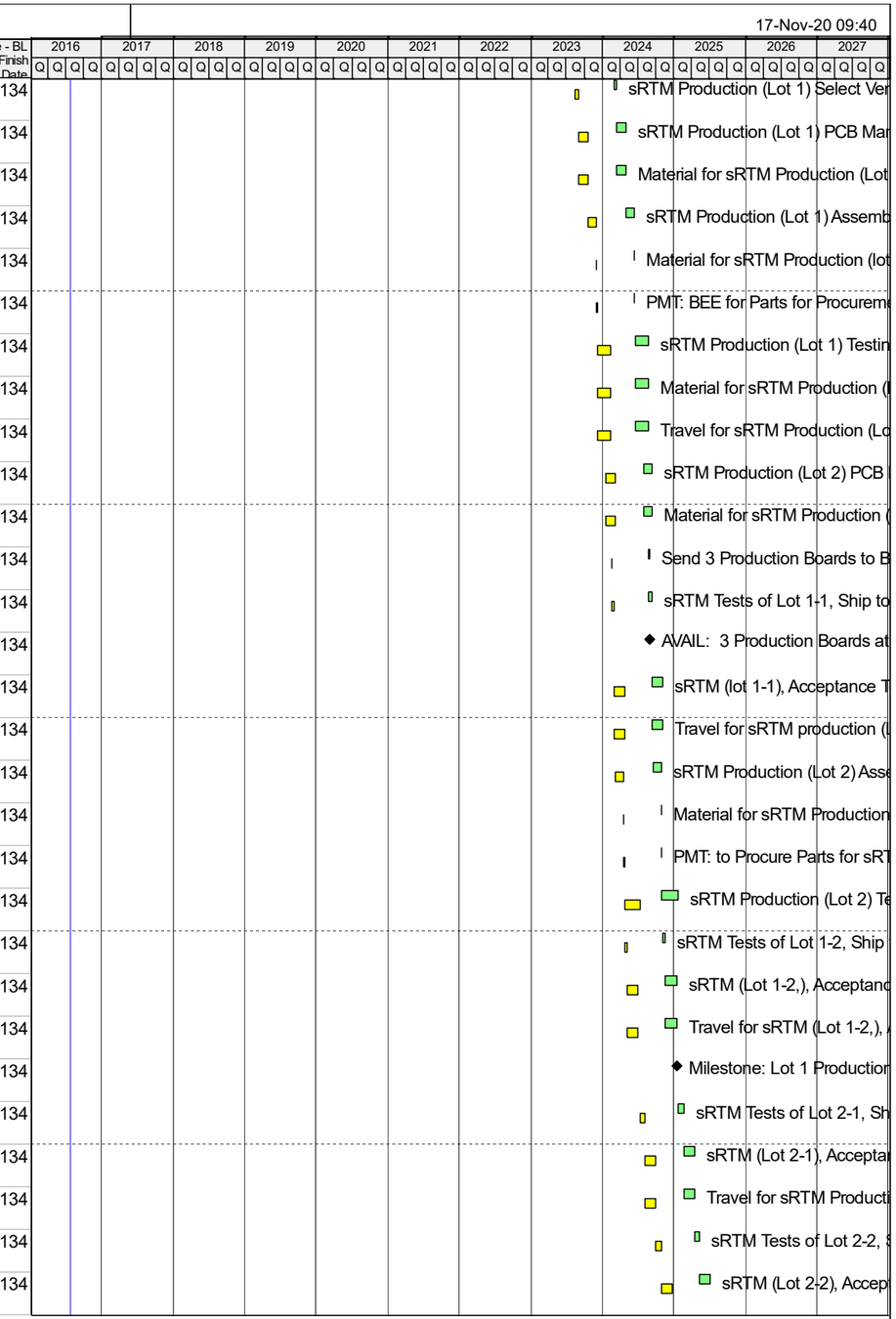
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE10670EX	External Milestone: ATLAS FDR	0	08-Sep-22		22-Mar-23		537	$0.00	$0.00	-134
BEE10680	Milestone: ATLAS FDR	0		08-Sep-22		22-Mar-23	58	$0.00	$0.00	-134
6.04.03.01.05 BEE Pre-Production		**208**	**08-Sep-22**	**05-Jul-23**	**22-Mar-23**	**16-Jan-24**	**222**	**$545,299.31**	**$612,331.74**	**-134**
No AP2 Task Group - Temp		**208**	**08-Sep-22**	**05-Jul-23**	**22-Mar-23**	**16-Jan-24**	**222**	**$545,299.31**	**$612,331.74**	**-134**
BEE10685	Pre-Production sRTM Schematic Changes	15	08-Sep-22	28-Sep-22	22-Mar-23	11-Apr-23	58	$12,151.44	$12,516.15	-134
BEE10690	Pre-Production sRTM PCB Layout Changes	40	29-Sep-22	25-Nov-22	12-Apr-23	07-Jun-23	58	$33,327.77	$33,376.40	-134
BEE10690M	Material for Pre-Production sRTM PCB Layout Changes	40	29-Sep-22	25-Nov-22	12-Apr-23	07-Jun-23	58	$6,262.37	$7,048.30	-134
BEE10700	Pre-Production sRTM PCB Manufacture, 10 Boards	20	28-Nov-22	23-Dec-22	08-Jun-23	06-Jul-23	58	$4,837.57	$4,837.57	-134
BEE10700M	Material for Pre-Production sRTM PCB Manufacture, 10 Boards	20	28-Nov-22	23-Dec-22	08-Jun-23	06-Jul-23	58	$31,578.10	$35,541.15	-134
BEE10711	Solicit Quotes	10	27-Dec-22	10-Jan-23	07-Jul-23	20-Jul-23	59	$0.00	$0.00	-134
BEE10710	Pre-Production sRTM PCB Assembly, 10 Boards	33	27-Dec-22	10-Feb-23	07-Jul-23	22-Aug-23	58	$8,344.10	$8,344.10	-134
BEE10712	Select Vendor and Place Order	5	11-Jan-23	17-Jan-23	21-Jul-23	27-Jul-23	59	$0.00	$0.00	-134
BEE10713	Delivery	16	18-Jan-23	09-Feb-23	28-Jul-23	21-Aug-23	59	$0.00	$0.00	-134
BEE10715M	PMT: Material for Pre-Production sRTM PCB Assembly, 10 Boards	1	10-Feb-23	10-Feb-23	22-Aug-23	22-Aug-23	58	$103,377.51	$116,351.39	-134
BEE10750	Ship 2 Pre-Production Boards to BNL for BEC Evaluation Performance Test	2	13-Feb-23	14-Feb-23	23-Aug-23	24-Aug-23	125	$53.96	$53.96	-134
BEE10760	Ship 1 Pre-Production Board to AZ for Firmware Test	2	13-Feb-23	14-Feb-23	23-Aug-23	24-Aug-23	315	$53.96	$53.96	-134
BEE10720	Pre-Production sRTM Validation	20	13-Feb-23	13-Mar-23	23-Aug-23	20-Sep-23	58	$55,279.66	$55,279.66	-134
BEE10720T	Travel for Pre-Production sRTM Validation	20	13-Feb-23	13-Mar-23	23-Aug-23	20-Sep-23	58	$23,577.24	$35,658.22	-134
BEE10785	Ship boards to CERN	5	15-Feb-23	22-Feb-23	25-Aug-23	31-Aug-23	315	$0.00	$0.00	-134
BEE10790	Attend ATLAS PRR	5	14-Mar-23	20-Mar-23	21-Sep-23	27-Sep-23	133	$0.00	$0.00	-134
BEE10790T	Travel for ATLAS PRR	5	14-Mar-23	20-Mar-23	21-Sep-23	27-Sep-23	133	$2,270.96	$3,434.60	-134
BEE10725	Full Lot sRTM Test Board PCB Manufacture, 10 Boards	25	14-Mar-23	17-Apr-23	21-Sep-23	26-Oct-23	58	$6,675.28	$6,819.37	-134
BEE10725M	Material for Full Lot sRTM Test Board PCB Manufacture,10 Boards	25	14-Mar-23	17-Apr-23	21-Sep-23	26-Oct-23	58	$41,020.26	$47,166.57	-134
BEE10731	Solicit Quotes	10	18-Apr-23	01-May-23	27-Oct-23	09-Nov-23	59	$0.00	$0.00	-134
BEE10730	Full lot sRTM Test Board PCB Assembly, 10 boards	35	18-Apr-23	06-Jun-23	27-Oct-23	15-Dec-23	58	$14,602.17	$15,039.96	-134
BEE10732	Select Vendor and Place Order	10	02-May-23	15-May-23	10-Nov-23	24-Nov-23	59	$0.00	$0.00	-134
BEE10733	Delivery	13	16-May-23	05-Jun-23	27-Nov-23	14-Dec-23	59	$0.00	$0.00	-134
BEE10735M	PMT: Material for Full Lot sRTM Test Board PCB Assembly, 10 Boards	1	05-Jun-23	06-Jun-23	14-Dec-23	15-Dec-23	59	$176,854.66	$205,027.61	-134
BEE10740	Full Lot sRTM Test Board Validation, 10 Boards	20	07-Jun-23	05-Jul-23	18-Dec-23	16-Jan-24	58	$25,032.30	$25,782.78	-134
BEE10795EX	External Milestone: ATLAS PRR	0		05-Jul-23		16-Jan-24	58	$0.00	$0.00	-134
6.04.03.01.06 BEE Production		**379**	**06-Jul-23**	**03-Jan-25**	**17-Jan-24**	**15-Jul-25**	**58**	**$2,659,602.89**	**$2,717,422.72**	**-134**
No AP2 Task Group - Temp		**379**	**06-Jul-23**	**03-Jan-25**	**17-Jan-24**	**15-Jul-25**	**58**	**$2,659,602.89**	**$2,717,422.72**	**-134**
BEE10800	sRTM Production (Lot 1) Write Vendor Specifications	10	06-Jul-23	19-Jul-23	17-Jan-24	30-Jan-24	58	$6,258.07	$6,445.70	-134
BEE10810	sRTM Production (Lot 1) Request Quotes	20	20-Jul-23	16-Aug-23	31-Jan-24	28-Feb-24	58	$9,178.51	$9,453.69	-134



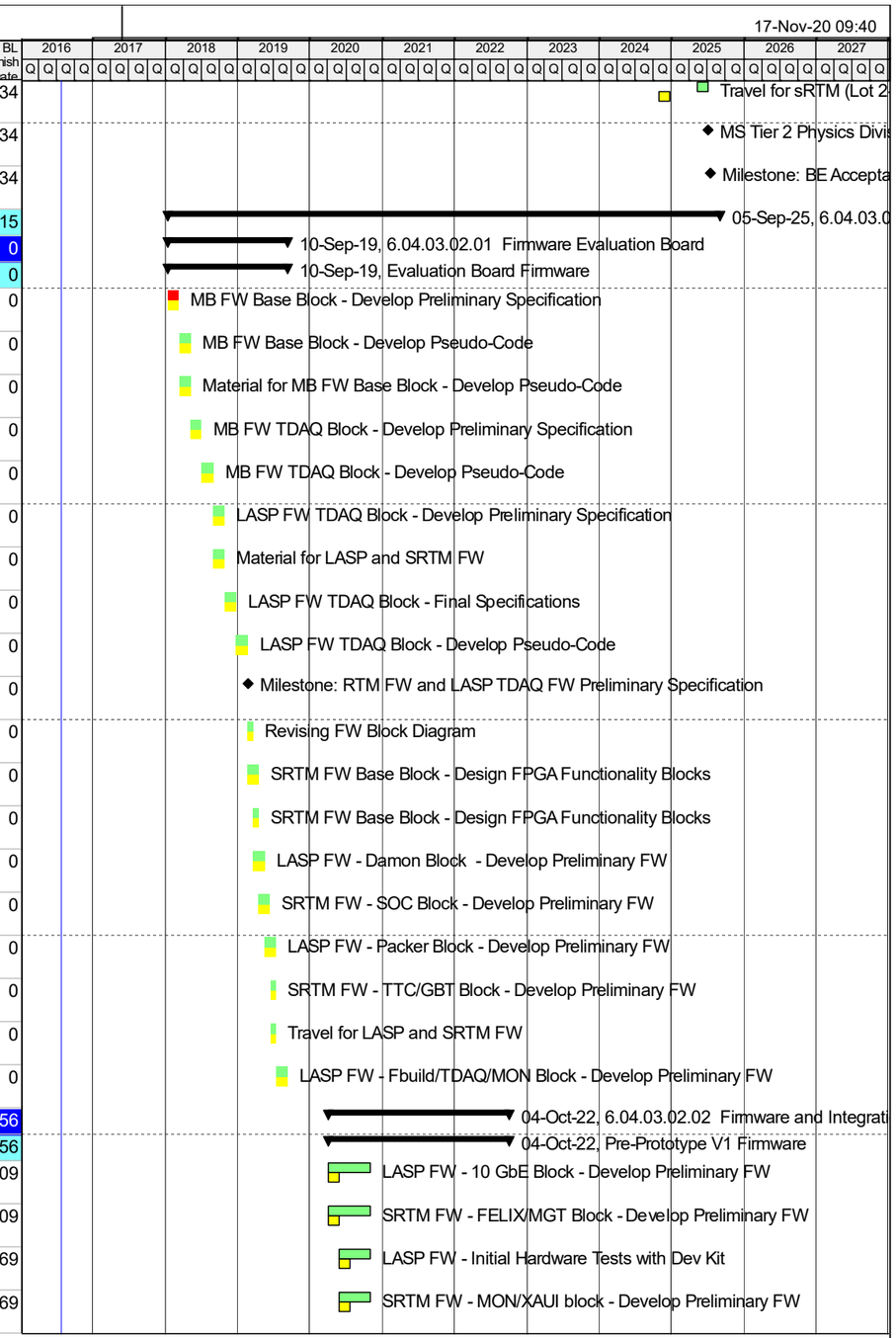
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE10820	sRTM Production (Lot 1) Select Vendor	11	17-Aug-23	31-Aug-23	29-Feb-24	14-Mar-24	58	$2,294.63	$2,363.42	-134
BEE10830	sRTM Production (Lot 1) PCB Manufacture	32	01-Sep-23	18-Oct-23	15-Mar-24	29-Apr-24	58	$4,218.95	$4,297.13	-134
BEE10830M	Material for sRTM Production (Lot 1) PCB Manufacture	32	01-Sep-23	18-Oct-23	15-Mar-24	29-Apr-24	58	$79,932.08	$92,665.26	-134
BEE10840	sRTM Production (Lot 1) Assembly	32	19-Oct-23	04-Dec-23	30-Apr-24	13-Jun-24	58	$10,742.83	$10,742.83	-134
BEE10845M	Material for sRTM Production (lot 1) Assembly	1	04-Dec-23	04-Dec-23	13-Jun-24	13-Jun-24	59	$37,367.95	$43,320.67	-134
BEE10840M	PMT: BEE for Parts for Procurement (Lot 1)	1	05-Dec-23	05-Dec-23	14-Jun-24	14-Jun-24	58	$1,016,894.55	$1,016,894.55	-134
BEE10850	sRTM Production (Lot 1) Testing	50	06-Dec-23	15-Feb-24	17-Jun-24	26-Aug-24	58	$66,865.39	$66,865.39	-134
BEE10850M	Material for sRTM Production (Lot 1) Testing	50	06-Dec-23	15-Feb-24	17-Jun-24	26-Aug-24	58	$36,471.00	$36,471.00	-134
BEE10850T	Travel for sRTM Production (Lot 1) Testing	50	06-Dec-23	15-Feb-24	17-Jun-24	26-Aug-24	58	$2,270.96	$3,537.93	-134
BEE10930	sRTM Production (Lot 2) PCB Manufacture	33	19-Jan-24	06-Mar-24	30-Jul-24	13-Sep-24	64	$4,982.61	$4,982.61	-134
BEE10930M	Material for sRTM Production (Lot 2) PCB Manufacture	33	19-Jan-24	06-Mar-24	30-Jul-24	13-Sep-24	64	$79,932.08	$92,665.26	-134
BEE10855	Send 3 Production Boards to BNL for Full Readout Chain Integration Test	3	16-Feb-24	21-Feb-24	27-Aug-24	29-Aug-24	58	$129.68	$129.68	-134
BEE10880	sRTM Tests of Lot 1-1, Ship to CERN	10	16-Feb-24	01-Mar-24	27-Aug-24	10-Sep-24	185	$6,445.70	$6,445.70	-134
BEE10865A	AVAIL: 3 Production Boards at BNL	0		21-Feb-24		29-Aug-24	58	$0.00	$0.00	-134
BEE10890	sRTM (lot 1-1), Acceptance Test @ CERN	38	04-Mar-24	24-Apr-24	11-Sep-24	04-Nov-24	185	$37,599.89	$38,312.48	-134
BEE10890T	Travel for sRTM production (Lot 1-1), Acceptance Test @ CERN	38	04-Mar-24	24-Apr-24	11-Sep-24	04-Nov-24	185	$6,812.88	$10,814.72	-134
BEE10940	sRTM Production (Lot 2) Assembly	32	07-Mar-24	19-Apr-24	16-Sep-24	30-Oct-24	64	$10,742.83	$10,954.38	-134
BEE10945M	Material for sRTM Production (Lot 2) Assembly	1	19-Apr-24	19-Apr-24	30-Oct-24	30-Oct-24	65	$37,367.95	$44,621.07	-134
BEE10940M	PMT: to Procure Parts for sRTM Production (Lot 2) Assembly	1	22-Apr-24	22-Apr-24	31-Oct-24	31-Oct-24	64	$1,016,894.55	$1,016,894.55	-134
BEE10950	sRTM Production (Lot 2) Testing	55	23-Apr-24	10-Jul-24	01-Nov-24	21-Jan-25	64	$65,716.75	$67,688.73	-134
BEE10900	sRTM Tests of Lot 1-2, Ship to CERN	10	25-Apr-24	08-May-24	05-Nov-24	18-Nov-24	185	$6,445.70	$6,639.11	-134
BEE10910	sRTM (Lot 1-2,), Acceptance Test @ CERN	38	09-May-24	02-Jul-24	19-Nov-24	14-Jan-25	185	$27,394.21	$28,216.23	-134
BEE10910T	Travel for sRTM (Lot 1-2,), Acceptance Test @ CERN	38	09-May-24	02-Jul-24	19-Nov-24	14-Jan-25	185	$4,541.92	$7,287.96	-134
BEE10920	Milestone: Lot 1 Production Complete	0		02-Jul-24		14-Jan-25	185	$0.00	$0.00	-134
BEE10960	sRTM Tests of Lot 2-1, Ship to CERN	20	11-Jul-24	07-Aug-24	22-Jan-25	19-Feb-25	64	$6,445.70	$6,639.11	-134
BEE10970	sRTM (Lot 2-1), Acceptance Test @ CERN	38	08-Aug-24	01-Oct-24	20-Feb-25	14-Apr-25	64	$31,716.36	$32,642.30	-134
BEE10970T	Travel for sRTM Production (Lot 2-2), Acceptance Test @ CERN	38	08-Aug-24	01-Oct-24	20-Feb-25	14-Apr-25	64	$4,541.92	$7,287.96	-134
BEE10980	sRTM Tests of Lot 2-2, Ship to CERN	20	02-Oct-24	30-Oct-24	15-Apr-25	12-May-25	64	$6,639.11	$6,639.11	-134
BEE10990	sRTM (Lot 2-2), Acceptance Test @ CERN	38	31-Oct-24	24-Dec-24	13-May-25	07-Jul-25	64	$28,216.23	$28,216.23	-134



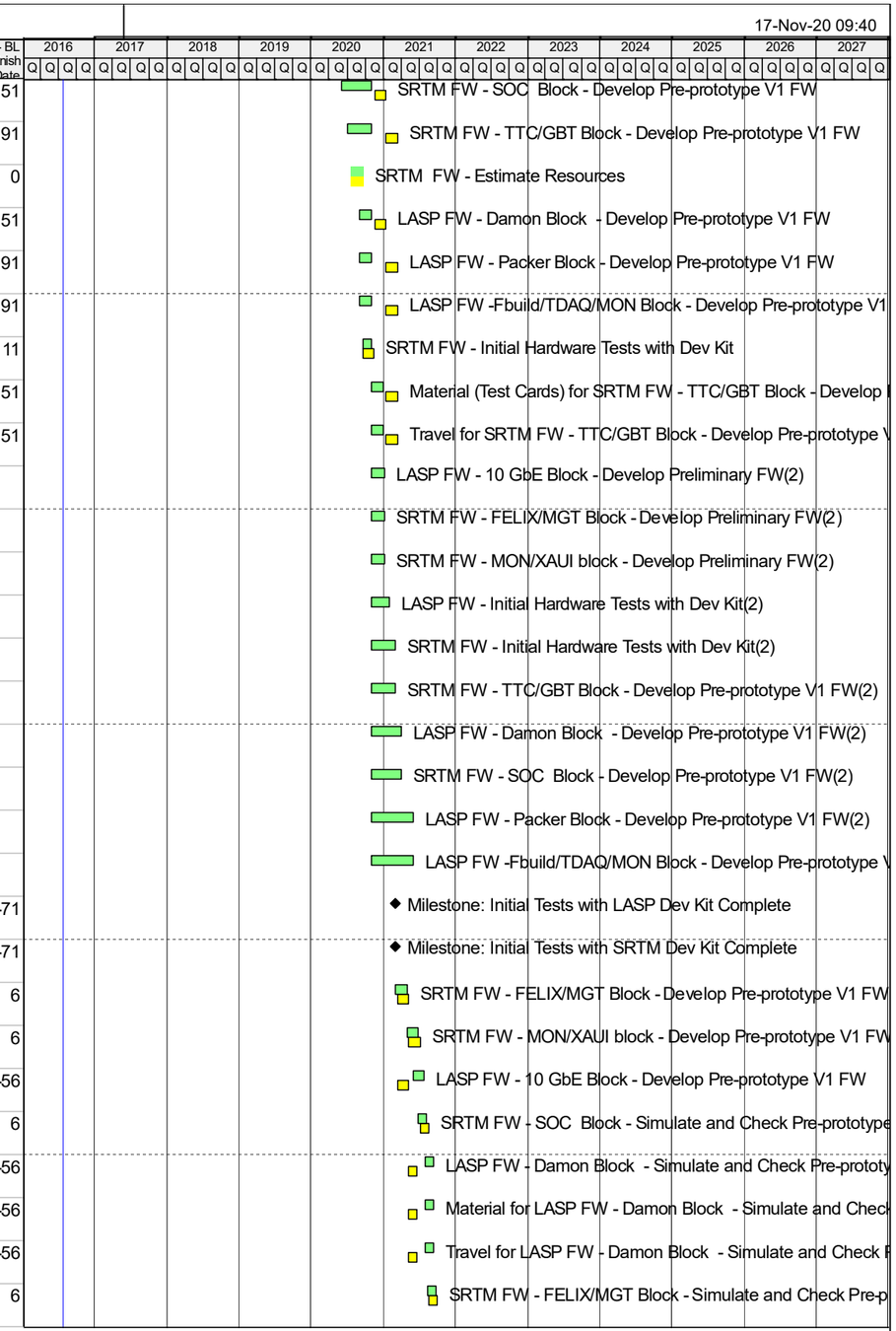
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE10990T	Travel for sRTM (Lot 2-2), Acceptance Test @ CERN	38	31-Oct-24	24-Dec-24	13-May-25	07-Jul-25	64	$4,541.92	$7,287.96	-134
BEE11020	MS Tier 2 Physics Division: Lot 2 Production - End of Production	0		24-Dec-24		07-Jul-25	64	$0.00	$0.00	-134
BEE11060	Milestone: BE Acceptance Test Complete	0		03-Jan-25		15-Jul-25	58	$0.00	$0.00	-134
6.04.03.02 BE Electronics-Arizona		1935	15-Jan-18	25-Mar-25	15-Jan-18	05-Sep-25	776	$1,107,944.98	$1,168,024.16	-115
6.04.03.02.01 Firmware Evaluation Board		420	15-Jan-18	10-Sep-19	15-Jan-18	10-Sep-19	2099	$55,072.43	$56,675.55	0
Evaluation Board Firmware		420	15-Jan-18	10-Sep-19	15-Jan-18	10-Sep-19	2099	$55,072.43	$56,675.55	0
BEE12010	MB FW Base Block - Develop Preliminary Specification	40	15-Jan-18	12-Mar-18	15-Jan-18*	12-Mar-18	0	$0.00	$0.00	0
BEE12020	MB FW Base Block - Develop Pseudo-Code	40	13-Mar-18	07-May-18	13-Mar-18	07-May-18	2079	$0.00	$0.00	0
BEE12020M	Material for MB FW Base Block - Develop Pseudo-Code	40	13-Mar-18	07-May-18	13-Mar-18	07-May-18	2079	$0.00	$0.00	0
BEE12030	MB FW TDAQ Block - Develop Preliminary Specification	40	08-May-18	03-Jul-18	08-May-18	03-Jul-18	2079	$0.00	$0.00	0
BEE12040	MB FW TDAQ Block - Develop Pseudo-Code	40	05-Jul-18	29-Aug-18	05-Jul-18	29-Aug-18	2079	$0.00	$0.00	0
BEE120050	LASP FW TDAQ Block - Develop Preliminary Specification	40	30-Aug-18	26-Oct-18	30-Aug-18	26-Oct-18	2079	$6,297.65	$6,297.65	0
BEE12050M	Material for LASP and SRTM FW	40	30-Aug-18	26-Oct-18	30-Aug-18	26-Oct-18	2079	$3,560.00	$4,528.70	0
BEE12060	LASP FW TDAQ Block - Final Specifications	40	29-Oct-18	24-Dec-18	29-Oct-18	24-Dec-18	2079	$1,091.22	$1,091.22	0
BEE12065	LASP FW TDAQ Block - Develop Pseudo-Code	40	26-Dec-18	21-Feb-19	26-Dec-18	21-Feb-19	2079	$1,091.22	$1,091.22	0
BEE12070	Milestone: RTM FW and LASP TDAQ FW Preliminary Specification	0		21-Feb-19		21-Feb-19	2079	$0.00	$0.00	0
BEE12075	Revising FW Block Diagram	20	22-Feb-19	21-Mar-19	22-Feb-19	21-Mar-19	2079	$0.00	$0.00	0
BEE120080	SRTM FW Base Block - Design FPGA Functionality Blocks	40	22-Feb-19	18-Apr-19	22-Feb-19	18-Apr-19	2139	$7,024.07	$7,024.07	0
BEE12080	SRTM FW Base Block - Design FPGA Functionality Blocks	20	22-Mar-19	18-Apr-19	22-Mar-19	18-Apr-19	2139	$3,104.33	$3,104.33	0
BEE12100	LASP FW - Damon Block - Develop Preliminary FW	40	22-Mar-19	16-May-19	22-Mar-19	16-May-19	2079	$6,102.18	$6,102.18	0
BEE12085	SRTM FW - SOC Block - Develop Preliminary FW	40	19-Apr-19	14-Jun-19	19-Apr-19	14-Jun-19	2139	$5,471.91	$5,471.91	0
BEE12110	LASP FW - Packer Block - Develop Preliminary FW	40	17-May-19	15-Jul-19	17-May-19	15-Jul-19	2079	$7,024.07	$7,024.07	0
BEE12090	SRTM FW - TTC/GBT Block - Develop Preliminary FW	20	17-Jun-19	15-Jul-19	17-Jun-19	15-Jul-19	2139	$7,024.07	$7,024.07	0
BEE12090T	Travel for LASP and SRTM FW	20	17-Jun-19	15-Jul-19	17-Jun-19	15-Jul-19	2139	$2,440.07	$3,074.49	0
BEE12112	LASP FW - Fbuild/TDAQ/MON Block - Develop Preliminary FW	40	16-Jul-19	10-Sep-19	16-Jul-19	10-Sep-19	2079	$4,841.64	$4,841.64	0
6.04.03.02.02 Firmware and Integration Pre-Prototype V1		636	01-Apr-20	15-Jul-22	01-Apr-20	04-Oct-22	1515	$376,192.57	$385,667.03	-56
Pre-Prototype V1 Firmware		636	01-Apr-20	15-Jul-22	01-Apr-20	04-Oct-22	1515	$376,192.57	$385,667.03	-56
BEE12114	LASP FW - 10 GbE Block - Develop Preliminary FW	149	01-Apr-20	27-May-20	01-Apr-20	30-Oct-20	1939	$4,987.12	$3,756.16	-109
BEE12120	SRTM FW - FELIX/MGT Block - Develop Preliminary FW	149	01-Apr-20	27-May-20	01-Apr-20	30-Oct-20	1959	$4,987.12	$2,253.70	-109
BEE12116	LASP FW - Initial Hardware Tests with Dev Kit	109	28-May-20	23-Jul-20	28-May-20	30-Oct-20	1939	$4,987.12	$1,322.86	-69
BEE12130	SRTM FW - MON/XAUI block - Develop Preliminary FW	109	28-May-20	23-Jul-20	28-May-20	30-Oct-20	1959	$6,285.48	$2,844.82	-69



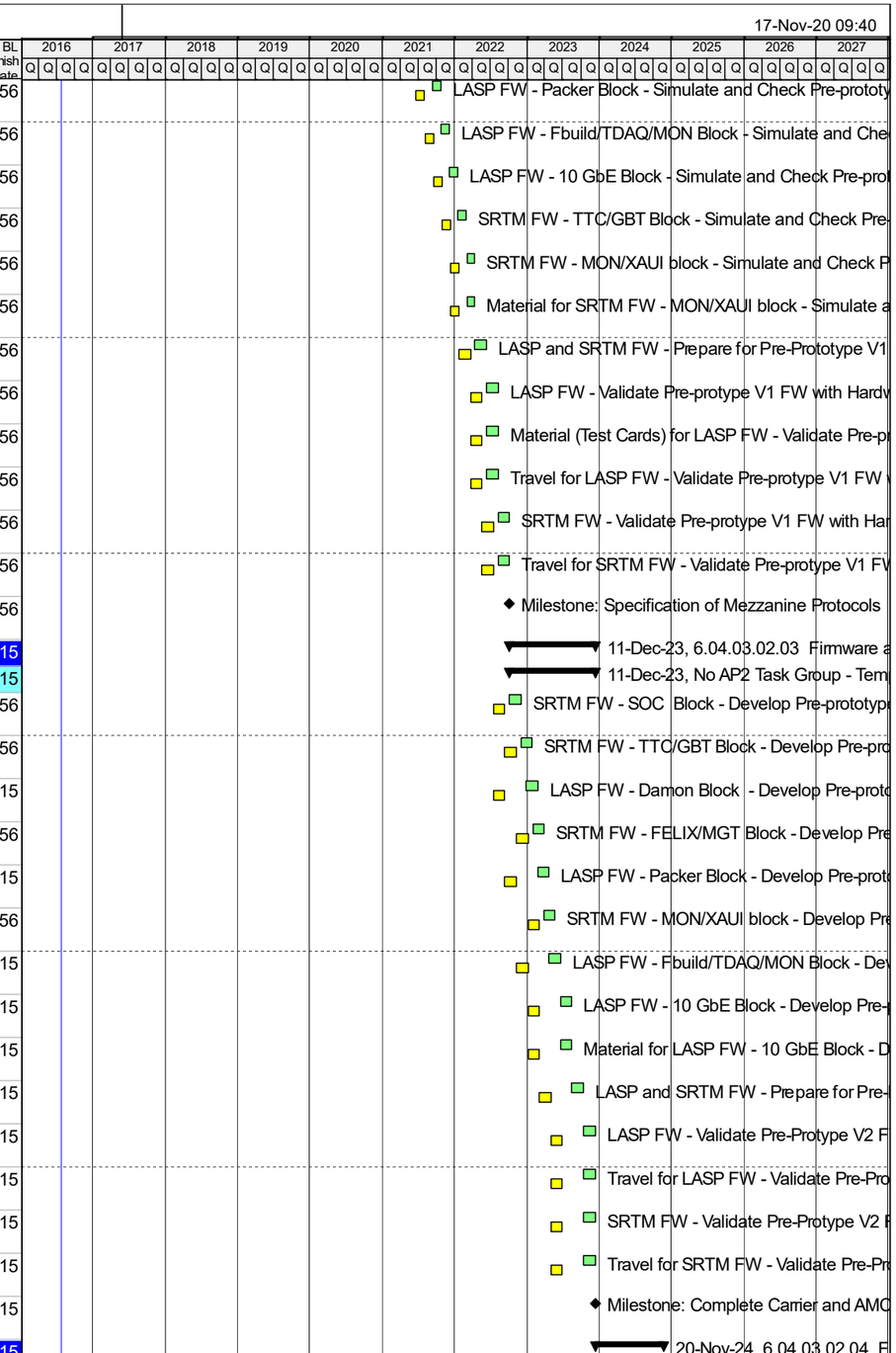
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE12270	SRTM FW - SOC Block - Develop Pre-prototype V1 FW	107	17-Nov-20	14-Jan-21	01-Jun-20*	30-Oct-20	I897	$14,904.21	$4,366.58	51
BEE12280	SRTM FW - TTC/GBT Block - Develop Pre-prototype V1 FW	85	15-Jan-21	12-Mar-21	01-Jul-20*	30-Oct-20	192	$14,904.21	$2,915.46	91
BEE12140	SRTM FW - Estimate Resources	40	24-Jul-20	18-Sep-20	24-Jul-20*	18-Sep-20	80	$4,987.12	$4,987.12	0
BEE12230	LASP FW - Damon Block - Develop Pre-prototype V1 FW	39	17-Nov-20	14-Jan-21	04-Sep-20	30-Oct-20	80	$14,904.21	$1,470.38	51
BEE12240	LASP FW - Packer Block - Develop Pre-prototype V1 FW	39	15-Jan-21	12-Mar-21	04-Sep-20	30-Oct-20	80	$14,904.21	$3,675.96	91
BEE12245	LASP FW -Fbuild/TDAQ/MON Block - Develop Pre-prototype V1 FW	39	15-Jan-21	12-Mar-21	04-Sep-20	30-Oct-20	80	$14,904.21	$1,470.38	91
BEE12150	SRTM FW - Initial Hardware Tests with Dev Kit	29	21-Sep-20	16-Nov-20	21-Sep-20	30-Oct-20	I920	$4,134.49	$825.06	11
BEE12280M	Material (Test Cards) for SRTM FW - TTC/GBT Block - Develop Pre-prototype	40	15-Jan-21	12-Mar-21	02-Nov-20	29-Dec-20	227	$28,644.30	$38,288.84	51
BEE12280T	Travel for SRTM FW - TTC/GBT Block - Develop Pre-prototype V1 FW	40	15-Jan-21	12-Mar-21	02-Nov-20	29-Dec-20	237	$2,440.07	$3,261.64	51
BEE12115	LASP FW - 10 GbE Block - Develop Preliminary FW(2)	43			02-Nov-20	04-Jan-21	I959	$0.00	$2,568.38	
BEE12121	SRTM FW - FELIX/MGT Block - Develop Preliminary FW(2)	43			02-Nov-20	04-Jan-21	I959	$0.00	$3,273.73	
BEE12131	SRTM FW - MON/XAUI block - Develop Preliminary FW(2)	43			02-Nov-20	04-Jan-21	I959	$0.00	$4,611.04	
BEE12117	LASP FW - Initial Hardware Tests with Dev Kit(2)	63			02-Nov-20	01-Feb-21	I939	$0.00	$3,273.73	
BEE12151	SRTM FW - Initial Hardware Tests with Dev Kit(2)	82			02-Nov-20	01-Mar-21	I920	$0.00	$2,079.36	
BEE12281	SRTM FW - TTC/GBT Block - Develop Pre-prototype V1 FW(2)	85			02-Nov-20	04-Mar-21	192	$0.00	$11,178.15	
BEE12231	LASP FW - Damon Block - Develop Pre-prototype V1 FW(2)	105			02-Nov-20	01-Apr-21	I897	$0.00	$11,178.15	
BEE12271	SRTM FW - SOC Block - Develop Pre-prototype V1 FW(2)	105			02-Nov-20*	01-Apr-21	I897	$0.00	$11,178.15	
BEE12241	LASP FW - Packer Block - Develop Pre-prototype V1 FW(2)	147			02-Nov-20	01-Jun-21	80	$0.00	$11,178.15	
BEE12246	LASP FW -Fbuild/TDAQ/MON Block - Develop Pre-prototype V1 FW(2)	147			02-Nov-20	01-Jun-21	80	$0.00	$1,490.42	
BEE12180	Milestone: Initial Tests with LASP Dev Kit Complete	0		16-Nov-20		01-Mar-21	I920	$0.00	$0.00	-71
BEE12190	Milestone: Initial Tests with SRTM Dev Kit Complete	0		16-Nov-20		01-Mar-21	I920	$0.00	$0.00	-71
BEE12290	SRTM FW - FELIX/MGT Block - Develop Pre-prototype V1 FW	40	15-Mar-21	07-May-21	05-Mar-21	29-Apr-21	192	$14,904.21	$14,904.21	6
BEE12295	SRTM FW - MON/XAUI block - Develop Pre-prototype V1 FW	40	10-May-21	06-Jul-21	30-Apr-21	25-Jun-21	192	$14,904.21	$14,904.21	6
BEE12250	LASP FW - 10 GbE Block - Develop Pre-prototype V1 FW	40	15-Mar-21	07-May-21	02-Jun-21	28-Jul-21	80	$14,904.21	$14,904.21	-56
BEE12360	SRTM FW - SOC Block - Simulate and Check Pre-prototype V1 FW	30	07-Jul-21	17-Aug-21	28-Jun-21	09-Aug-21	192	$11,178.15	$11,178.15	6
BEE12320	LASP FW - Damon Block - Simulate and Check Pre-prototype V1 FW	30	10-May-21	21-Jun-21	29-Jul-21	09-Sep-21	80	$11,178.15	$11,178.15	-56
BEE12320M	Material for LASP FW - Damon Block - Simulate and Check Pre-prototype V1	30	10-May-21	21-Jun-21	29-Jul-21	09-Sep-21	80	$6,365.40	$8,508.63	-56
BEE12320T	Travel for LASP FW - Damon Block - Simulate and Check Pre-prototype V1	30	10-May-21	21-Jun-21	29-Jul-21	09-Sep-21	80	$3,421.40	$4,573.39	-56
BEE12380	SRTM FW - FELIX/MGT Block - Simulate and Check Pre-prototype V1	30	18-Aug-21	29-Sep-21	10-Aug-21	21-Sep-21	192	$11,178.15	$11,178.15	6



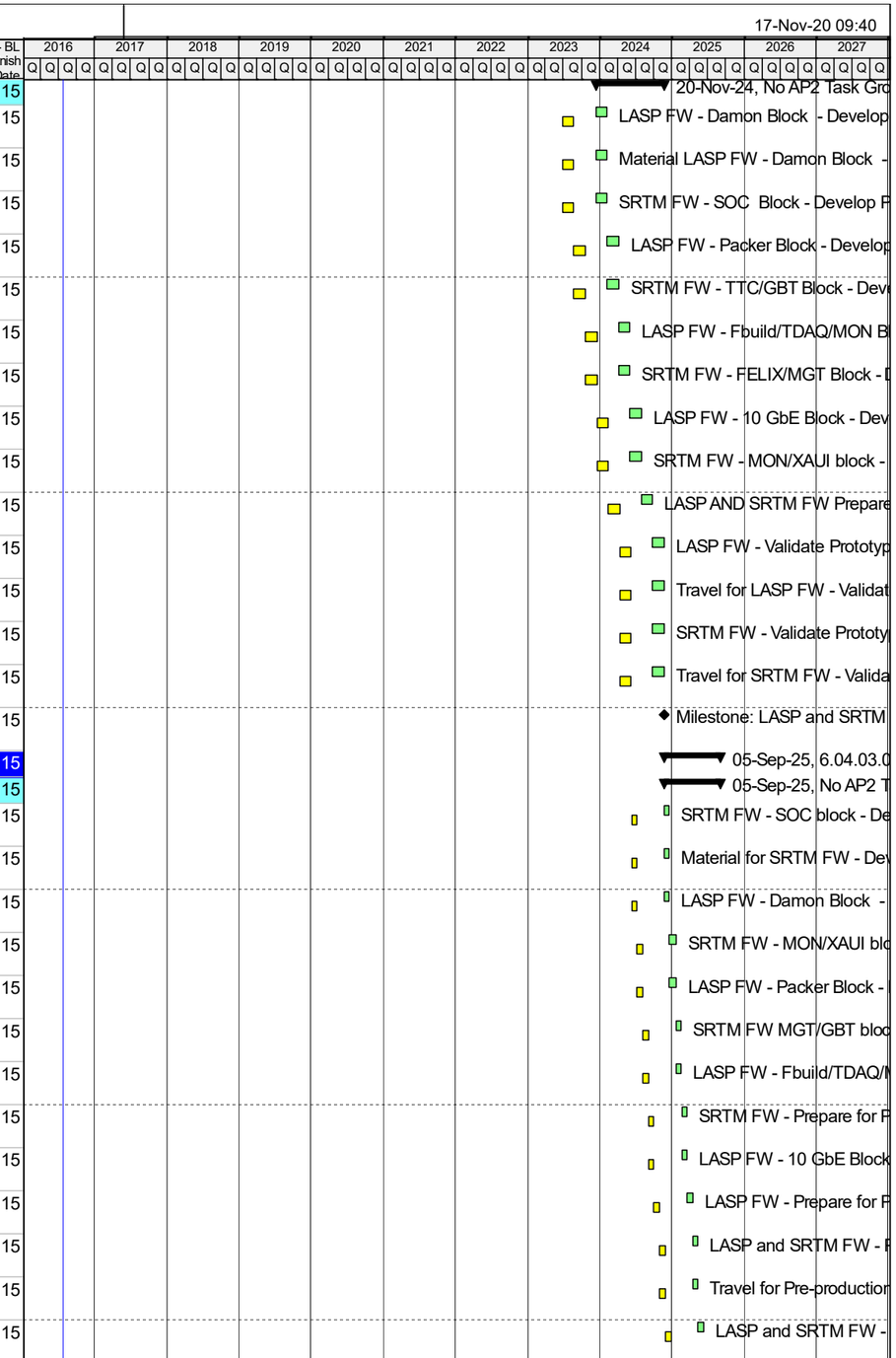
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE12330	LASP FW - Packer Block - Simulate and Check Pre-prototype V1 FW	30	22-Jun-21	03-Aug-21	10-Sep-21	22-Oct-21	80	$11,178.15	$11,345.72	-56
BEE12340	LASP FW - Fbuild/TDAQ/MON Block - Simulate and Check Pre-prototype V1	30	04-Aug-21	15-Sep-21	25-Oct-21	06-Dec-21	80	$11,178.15	$11,513.29	-56
BEE12350	LASP FW - 10 GbE Block - Simulate and Check Pre-prototype V1 FW	30	16-Sep-21	28-Oct-21	07-Dec-21	19-Jan-22	80	$11,390.41	$11,513.29	-56
BEE12370	SRTM FW - TTC/GBT Block - Simulate and Check Pre-prototype V1 FW	30	29-Oct-21	10-Dec-21	20-Jan-22	03-Mar-22	80	$11,513.29	$11,513.29	-56
BEE12390	SRTM FW - MON/XAUI block - Simulate and Check Pre-prototype V1 FW	30	13-Dec-21	25-Jan-22	04-Mar-22	14-Apr-22	80	$11,513.29	$11,513.29	-56
BEE12390M	Material for SRTM FW - MON/XAUI block - Simulate and Check	30	13-Dec-21	25-Jan-22	04-Mar-22	14-Apr-22	80	$6,365.40	$8,763.88	-56
BEE12405	LASP and SRTM FW - Prepare for Pre-Prototype V1 Tests with Hardware	40	26-Jan-22	23-Mar-22	15-Apr-22	10-Jun-22	80	$15,351.05	$15,351.05	-56
BEE12410	LASP FW - Validate Pre-protype V1 FW with Hardware	40	24-Mar-22	18-May-22	13-Jun-22	08-Aug-22	80	$15,351.05	$15,351.05	-56
BEE12410M	Material (Test Cards) for LASP FW - Validate Pre-protype V1 FW with	40	24-Mar-22	18-May-22	13-Jun-22	08-Aug-22	80	$37,131.50	$40,573.59	-56
BEE12410T	Travel for LASP FW - Validate Pre-protype V1 FW with Hardware	40	24-Mar-22	18-May-22	13-Jun-22	08-Aug-22	80	$2,440.07	$3,359.49	-56
BEE12420	SRTM FW - Validate Pre-protype V1 FW with Hardware	40	19-May-22	15-Jul-22	09-Aug-22	04-Oct-22	80	$15,351.05	$15,374.09	-56
BEE12420T	Travel for SRTM FW - Validate Pre-protype V1 FW with Hardware	40	19-May-22	15-Jul-22	09-Aug-22	04-Oct-22	80	$3,421.40	$4,717.65	-56
BEE12430	Milestone: Specification of Mezzanine Protocols	0		15-Jul-22		04-Oct-22	80	$0.00	$0.00	-56
6.04.03.02.03	**Firmware and Integration Pre-Prototype V2**	299	18-Jul-22	27-Jun-23	05-Oct-22	11-Dec-23	21	$187,538.77	$196,410.69	-115
No AP2 Task Group - Temp		299	18-Jul-22	27-Jun-23	05-Oct-22	11-Dec-23	21	$187,538.77	$196,410.69	-115
BEE12530	SRTM FW - SOC Block - Develop Pre-prototype V2 FW	40	18-Jul-22	12-Sep-22	05-Oct-22	01-Dec-22	80	$15,351.05	$15,811.85	-56
BEE12540	SRTM FW - TTC/GBT Block - Develop Pre-prototype V2 FW	40	13-Sep-22	08-Nov-22	02-Dec-22	30-Jan-23	80	$15,650.57	$15,811.85	-56
BEE12500	LASP FW - Damon Block - Develop Pre-prototype V2 FW	40	18-Jul-22	12-Sep-22	30-Dec-22	27-Feb-23	21	$15,351.05	$15,811.85	-115
BEE12550	SRTM FW - FELIX/MGT Block - Develop Pre-prototype V2 FW	40	09-Nov-22	06-Jan-23	31-Jan-23	28-Mar-23	80	$15,811.85	$15,811.85	-56
BEE12510	LASP FW - Packer Block - Develop Pre-prototype V2 FW	40	13-Sep-22	08-Nov-22	28-Feb-23	24-Apr-23	21	$15,650.57	$15,811.85	-115
BEE12560	SRTM FW - MON/XAUI block - Develop Pre-prototype V2 FW	40	09-Jan-23	06-Mar-23	29-Mar-23	23-May-23	80	$15,811.85	$15,811.85	-56
BEE12515	LASP FW - Fbuild/TDAQ/MON Block - Develop Pre-prototype V2 FW	40	09-Nov-22	06-Jan-23	25-Apr-23	20-Jun-23	21	$15,811.85	$15,811.85	-115
BEE12520	LASP FW - 10 GbE Block - Develop Pre-prototype V2 FW	40	09-Jan-23	06-Mar-23	21-Jun-23	16-Aug-23	21	$15,811.85	$15,811.85	-115
BEE12520M	Material for LASP FW - 10 GbE Block - Develop Pre-prototype V2 FW	40	09-Jan-23	06-Mar-23	21-Jun-23	16-Aug-23	21	$6,365.40	$9,026.77	-115
BEE12565	LASP and SRTM FW - Prepare for Pre-Prototype V2 Tests with Hardware	40	07-Mar-23	01-May-23	17-Aug-23	13-Oct-23	21	$15,811.85	$15,918.67	-115
BEE12570	LASP FW - Validate Pre-Protype V2 FW Test with Hardware	40	02-May-23	27-Jun-23	16-Oct-23	11-Dec-23	21	$15,811.85	$16,286.60	-115
BEE12570T	Travel for LASP FW - Validate Pre-Protype V2 FW Test with Hardware	40	02-May-23	27-Jun-23	16-Oct-23	11-Dec-23	21	$4,243.60	$6,198.63	-115
BEE12580	SRTM FW - Validate Pre-Protype V2 FW Test with Hardware	40	02-May-23	27-Jun-23	16-Oct-23	11-Dec-23	21	$15,811.85	$16,286.60	-115
BEE12580T	Travel for SRTM FW - Validate Pre-Protype V2 FW Test with Hardware	40	02-May-23	27-Jun-23	16-Oct-23	11-Dec-23	21	$4,243.60	$6,198.63	-115
BEE12590	Milestone: Complete Carrier and AMC TDAQ Pre-Protype V2 FW	0		27-Jun-23		11-Dec-23	21	$0.00	$0.00	-115
6.04.03.02.04	**Firmware and Integration Prototype**	240	28-Jun-23	07-Jun-24	12-Dec-23	20-Nov-24	21	$195,674.30	$206,917.43	-115



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
No AP2 Task Group - Temp		**240**	**28-Jun-23**	**07-Jun-24**	**12-Dec-23**	**20-Nov-24**	**21**	**$195,674.30**	**$206,917.43**	**-115**
BEE12600	LASP FW - Damon Block - Develop Prototype FW	40	28-Jun-23	23-Aug-23	12-Dec-23	07-Feb-24	21	$15,811.85	$16,286.60	-115
BEE12600M	Material LASP FW - Damon Block - Develop Prototype FW	40	28-Jun-23	23-Aug-23	12-Dec-23	07-Feb-24	21	$6,365.40	$9,297.94	-115
BEE12620	SRTM FW - SOC Block - Develop Prototype FW	40	28-Jun-23	23-Aug-23	12-Dec-23	07-Feb-24	21	$15,811.85	$16,286.60	-115
BEE12610	LASP FW - Packer Block - Develop Prototype FW	40	24-Aug-23	20-Oct-23	08-Feb-24	04-Apr-24	21	$15,978.01	$16,286.60	-115
BEE12630	SRTM FW - TTC/GBT Block - Develop Prototype FW	40	24-Aug-23	20-Oct-23	08-Feb-24	04-Apr-24	21	$15,978.01	$16,286.60	-115
BEE12612	LASP FW - Fbuild/TDAQ/MON Block - Develop Prototype FW	40	23-Oct-23	18-Dec-23	05-Apr-24	31-May-24	21	$16,286.60	$16,286.60	-115
BEE12640	SRTM FW - FELIX/MGT Block - Develop Prototype FW	40	23-Oct-23	18-Dec-23	05-Apr-24	31-May-24	21	$16,286.60	$16,286.60	-115
BEE12614	LASP FW - 10 GbE Block - Develop Prototype FW	40	19-Dec-23	14-Feb-24	03-Jun-24	29-Jul-24	21	$16,286.60	$16,286.60	-115
BEE12650	SRTM FW - MON/XAUI block - Develop Prototype FW	40	19-Dec-23	14-Feb-24	03-Jun-24	29-Jul-24	21	$16,286.60	$16,286.60	-115
BEE12670	LASP AND SRTM FW Prepare for Prototype FW Hardware Tests	40	15-Feb-24	11-Apr-24	30-Jul-24	24-Sep-24	21	$16,286.60	$16,286.60	-115
BEE12680	LASP FW - Validate Prototype FW Tests with Hardware	40	12-Apr-24	07-Jun-24	25-Sep-24	20-Nov-24	21	$16,286.60	$16,726.58	-115
BEE12680T	Travel for LASP FW - Validate Prototype FW Tests with Hardware	40	12-Apr-24	07-Jun-24	25-Sep-24	20-Nov-24	21	$4,880.14	$7,321.23	-115
BEE12690	SRTM FW - Validate Prototype FW Test with Hardware	40	12-Apr-24	07-Jun-24	25-Sep-24	20-Nov-24	21	$16,286.60	$16,726.58	-115
BEE12690T	Travel for SRTM FW - Validate Prototype FW Test with Hardware	40	12-Apr-24	07-Jun-24	25-Sep-24	20-Nov-24	21	$6,842.81	$10,265.64	-115
BEE12695	Milestone: LASP and SRTM Prototype FW	0		07-Jun-24		20-Nov-24	21	$0.00	$0.00	-115
6.04.03.02.05 Firmware and Integration Production		**200**	**10-Jun-24**	**25-Mar-25**	**21-Nov-24**	**05-Sep-25**	**21**	**$293,466.90**	**$322,353.47**	**-115**
No AP2 Task Group - Temp		**200**	**10-Jun-24**	**25-Mar-25**	**21-Nov-24**	**05-Sep-25**	**21**	**$293,466.90**	**$322,353.47**	**-115**
BEE12750	SRTM FW - SOC block - Develop Pre-production FW	20	10-Jun-24	08-Jul-24	21-Nov-24	19-Dec-24	41	$16,286.60	$16,775.47	-115
BEE12750M	Material for SRTM FW - Develop Pre-Production FW	20	10-Jun-24	08-Jul-24	21-Nov-24	19-Dec-24	41	$6,365.40	$9,577.38	-115
BEE12790	LASP FW - Damon Block - Develop Pre-production FW	20	10-Jun-24	08-Jul-24	21-Nov-24	19-Dec-24	21	$16,286.60	$16,775.47	-115
BEE12760	SRTM FW - MON/XAUI block - Develop Pre-production FW	20	09-Jul-24	05-Aug-24	20-Dec-24	20-Jan-25	41	$16,286.60	$16,775.47	-115
BEE12800	LASP FW - Packer Block - Develop Pre-production FW	20	09-Jul-24	05-Aug-24	20-Dec-24	20-Jan-25	21	$16,286.60	$16,775.47	-115
BEE12770	SRTM FW MGT/GBT block - Develop Pre-production FW	20	06-Aug-24	03-Sep-24	21-Jan-25	18-Feb-25	41	$16,286.60	$16,775.47	-115
BEE12810	LASP FW - Fbuild/TDAQ/MON Block - Develop Pre-production FW	20	06-Aug-24	03-Sep-24	21-Jan-25	18-Feb-25	21	$16,286.60	$16,775.47	-115
BEE12780	SRTM FW - Prepare for Pre-production Tests at BNL and CERN	20	04-Sep-24	01-Oct-24	19-Feb-25	18-Mar-25	41	$16,311.05	$16,775.47	-115
BEE12820	LASP FW - 10 GbE Block - Develop Pre-prodution FW	20	04-Sep-24	01-Oct-24	19-Feb-25	18-Mar-25	21	$16,311.05	$16,775.47	-115
BEE12830	LASP FW - Prepare for Pre-production Tests at BNL and CERN	20	02-Oct-24	30-Oct-24	19-Mar-25	15-Apr-25	21	$16,775.47	$16,775.47	-115
BEE12835	LASP and SRTM FW - Pre-Production FW Tests with Hardware at BNL	20	31-Oct-24	27-Nov-24	16-Apr-25	13-May-25	21	$16,775.47	$16,775.47	-115
BEE12835T	Travel for Pre-production FW Tests at BNL	20	31-Oct-24	27-Nov-24	16-Apr-25	13-May-25	21	$5,266.31	$7,923.69	-115
BEE12840	LASP and SRTM FW - Pre-Production FW Tests with Hardware at CERN	20	29-Nov-24	27-Dec-24	14-May-25	11-Jun-25	21	$14,827.50	$14,827.50	-115



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

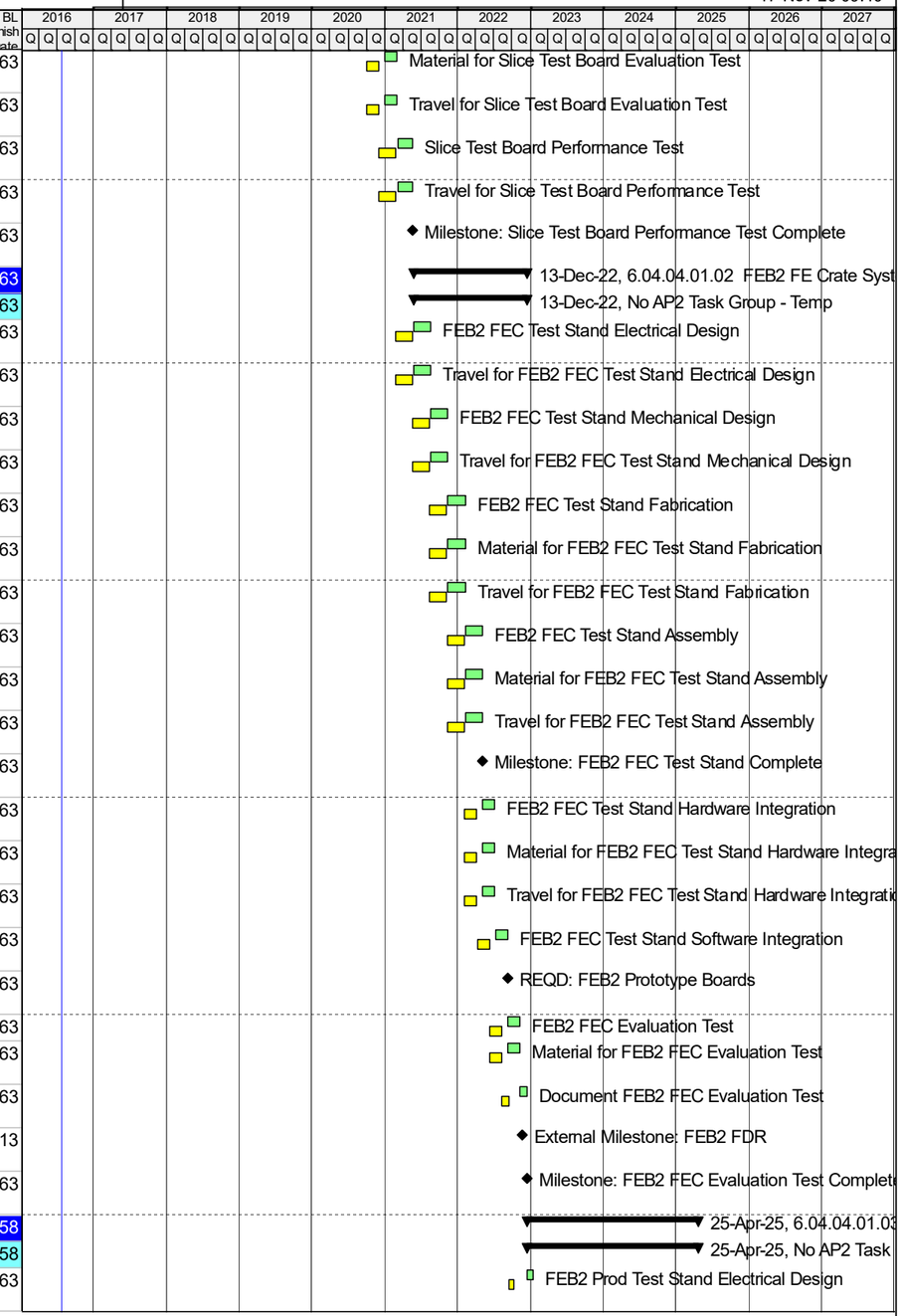
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
BEE12840M	Material for Pre-production FW Tests at CERN	20	29-Nov-24	27-Dec-24	14-May-25	11-Jun-25	21	$8,020.40	$12,067.50	-115
BEE12840T	Travel for Pre-production FW Tests at CERN	20	29-Nov-24	27-Dec-24	14-May-25	11-Jun-25	21	$10,693.87	$16,090.00	-115
BEE12870	LASP FW - Develop Production FW	20	30-Dec-24	27-Jan-25	12-Jun-25	10-Jul-25	21	$15,801.49	$15,801.49	-115
BEE12880	SRTM FW - Develop Production FW	20	30-Dec-24	27-Jan-25	12-Jun-25	10-Jul-25	21	$15,801.49	$15,801.49	-115
BEE12880M	Material for Develop Production FW	20	30-Dec-24	27-Jan-25	12-Jun-25	10-Jul-25	41	$6,365.40	$9,577.38	-115
BEE12920	LASP FW - Complete Development of Production FW	20	28-Jan-25	25-Feb-25	11-Jul-25	07-Aug-25	21	$16,775.47	$16,775.47	-115
BEE12930	SRTM FW - Complete Development of Production FW	20	28-Jan-25	25-Feb-25	11-Jul-25	07-Aug-25	21	$16,775.47	$16,775.47	-115
BEE12930M	Material for Complete Development of Production FW	20	26-Feb-25	25-Mar-25	08-Aug-25	05-Sep-25	21	$6,365.40	$9,577.38	-115
BEE12930T	Travel for Complete Development of Production FW	20	26-Feb-25	25-Mar-25	08-Aug-25	05-Sep-25	21	$6,516.05	$9,804.05	-115
BEE13060	Milestone: Firmware Complete	0		25-Mar-25		05-Sep-25	21	$0.00	$0.00	-115
6.04.03.90 L3 Project Management		2022	02-Oct-17	29-Sep-25	02-Oct-17	29-Sep-25	1	$0.00	$0.00	0
L3 Project Management		2022	02-Oct-17	29-Sep-25	02-Oct-17	29-Sep-25	1	$0.00	$0.00	0
MGT43250	Project Management - FY18	251	02-Oct-17	27-Sep-18	02-Oct-17	27-Sep-18	2	$0.00	$0.00	0
MGT43260	Project Management - FY19	252	01-Oct-18	27-Sep-19	01-Oct-18	27-Sep-19	1	$0.00	$0.00	0
MGT43270	Project Management - FY20 Pre-MREFC	126	01-Oct-19	31-Mar-20	01-Oct-19	31-Mar-20	2	$0.00	$0.00	0
MGT43275	Project Management - FY20 MREFC	127	01-Apr-20	29-Sep-20	01-Apr-20	29-Sep-20	2	$0.00	$0.00	0
MGT43280	Project Management - FY21	252	01-Oct-20	29-Sep-21	01-Oct-20	29-Sep-21	1	$0.00	$0.00	0
MGT43290	Project Management - FY22	252	01-Oct-21	29-Sep-22	01-Oct-21	29-Sep-22	1	$0.00	$0.00	0
MGT43300	Project Management - FY23	251	03-Oct-22	28-Sep-23	03-Oct-22	28-Sep-23	1	$0.00	$0.00	0
MGT43310	Project Management - FY24	252	02-Oct-23	27-Sep-24	02-Oct-23	27-Sep-24	1	$0.00	$0.00	0
MGT43320	Project Management - FY25	252	01-Oct-24	29-Sep-25	01-Oct-24	29-Sep-25	1	$0.00	$0.00	0
6.04.04 System Integration		2023	02-Oct-17	30-Sep-25	02-Oct-17	30-Sep-25	4	$3,118,694.92	$3,262,354.25	0
6.04.04.01 FEB2 Integration-BNL		1662	01-Oct-18	03-Feb-25	01-Oct-18	25-Apr-25	113	$1,617,850.05	$1,705,199.24	-58
6.04.04.01.01 LAr FEB2 Slice Test PCB Integration		669	01-Oct-18	23-Feb-21	01-Oct-18	21-May-21	277	$387,813.90	$402,322.63	-63
No AP2 Task Group - Temp		669	01-Oct-18	23-Feb-21	01-Oct-18	21-May-21	277	$387,813.90	$402,322.63	-63
SYS460010	Slice Test Board Test Stand Electrical Design	45	01-Oct-18	04-Dec-18	01-Oct-18	04-Dec-18	209	$13,421.64	$13,421.64	0
SYS460010T	Travel for Slice Test Board Test Stand Electrical Design	45	01-Oct-18	04-Dec-18	01-Oct-18	04-Dec-18	209	$2,652.25	$3,520.86	0
SYS460020	Slice Test Board Test Stand Mechanical Design	55	05-Dec-18	22-Feb-19	05-Dec-18	22-Feb-19	209	$13,421.64	$13,421.64	0
SYS460020T	Travel for Slice Test Board Test Stand Mechanical Design	55	05-Dec-18	22-Feb-19	05-Dec-18	22-Feb-19	209	$2,652.25	$3,520.86	0
SYS460021	LAr FEB2 Analog Test Board Test Stand Electrical Design	20	25-Feb-19	22-Mar-19	25-Feb-19	22-Mar-19	209	$5,368.65	$5,368.65	0
SYS460021T	Travel for LAr FEB2 Analog Test Board Test Stand Electrical Design	20	25-Feb-19	22-Mar-19	25-Feb-19	22-Mar-19	209	$2,652.25	$3,520.86	0
SYS460022	LAr FEB2 Analog Test Board Test Stand Mechanical Design	15	25-Mar-19	12-Apr-19	25-Mar-19	12-Apr-19	209	$3,867.79	$3,867.79	0

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460022T	Travel for LAr FEB2 Analog Test Board Test Stand Mechanical Design	15	25-Mar-19	12-Apr-19	25-Mar-19	12-Apr-19	209	$2,652.25	$3,520.86	0
SYS460023	LAr FEB2 Analog Test Board Test Stand Fabrication	25	15-Apr-19	17-May-19	15-Apr-19	17-May-19	209	$5,051.24	$5,051.24	0
SYS460023M	Material for LAr FEB2 Analog Test Board Test Stand Fabrication	25	15-Apr-19	17-May-19	15-Apr-19	17-May-19	209	$2,500.00	$2,789.00	0
SYS460023T	Travel for LAr FEB2 Analog Test Board Test Stand Fabrication	25	15-Apr-19	17-May-19	15-Apr-19	17-May-19	209	$2,500.00	$3,318.75	0
SYS460024	LAr FEB2 Analog Test Board Test Stand Assembly	20	20-May-19	17-Jun-19	20-May-19	17-Jun-19	209	$4,182.46	$4,182.46	0
SYS460024M	Material for LAr FEB2 Analog Test Board Test Stand Assembly	20	20-May-19	17-Jun-19	20-May-19	17-Jun-19	209	$2,500.00	$2,789.00	0
SYS460024T	Travel for LAr FEB2 Analog Test Board Test Stand Assembly	20	20-May-19	17-Jun-19	20-May-19	17-Jun-19	209	$2,715.90	$3,605.36	0
SYS460025	Milestone: LAr FEB2 Analog Test Board Test Stand Complete	0		17-Jun-19		17-Jun-19	209	$0.00	$0.00	0
SYS460026	LAr FEB2 Analog Test Board Test Stand Hardware/Software Integration	20	18-Jun-19	16-Jul-19	18-Jun-19	16-Jul-19	209	$5,368.65	$5,368.65	0
SYS460026M	Material for LAr FEB2 Analog Test Board Test Stand Hardware/Software	20	18-Jun-19	16-Jul-19	18-Jun-19	16-Jul-19	209	$3,288.79	$3,668.97	0
SYS460026T	Travel for LAr FEB2 Analog Test Board Test Stand Hardware/Software	20	18-Jun-19	16-Jul-19	18-Jun-19	16-Jul-19	209	$2,652.25	$3,520.86	0
SYS460027R	REQD: LAr FEB2 Analog Test Board	0	17-Jul-19		17-Jul-19		209	$0.00	$0.00	0
SYS460028	LAr FEB2 Analog Test Board Test	43	17-Jul-19	16-Sep-19	17-Jul-19	16-Sep-19	209	$6,710.82	$6,710.82	0
SYS460028T	Travel for LAr FEB2 Analog Test Board Test	43	17-Jul-19	16-Sep-19	17-Jul-19	16-Sep-19	209	$2,652.25	$3,520.86	0
SYS460029	Milestone: Completion of LAr FEB2 Analog Test Board Test	0		16-Sep-19		16-Sep-19	209	$0.00	$0.00	0
SYS460030	Slice Test Board Test Stand Fabrication	55	17-Sep-19	04-Dec-19	17-Sep-19	04-Dec-19	209	$7,762.84	$7,762.84	0
SYS460030M	Material for Slice Test Board Test Stand Fabrication	55	17-Sep-19	04-Dec-19	17-Sep-19	04-Dec-19	209	$5,000.00	$5,715.05	0
SYS460030T	Travel for Slice Test Board Test Stand Fabrication	55	17-Sep-19	04-Dec-19	17-Sep-19	04-Dec-19	209	$2,000.00	$2,720.13	0
SYS460040	Slice Test Board Test Stand Assembly	163	05-Dec-19	27-Jul-20	05-Dec-19*	27-Jul-20	439	$20,811.10	$20,811.10	0
SYS460040M	Material for Slice Test Board Test Stand Assembly	163	05-Dec-19	27-Jul-20	05-Dec-19	27-Jul-20	485	$3,657.24	$3,657.24	0
SYS460040T	Travel for Slice Test Board Test Stand Assembly	163	05-Dec-19	27-Jul-20	05-Dec-19	27-Jul-20	439	$3,626.42	$3,626.42	0
SYS460060	Slice Test Board Test Stand Hardware Integration	143	25-Feb-20	15-Sep-20	25-Feb-20*	15-Sep-20	159	$39,020.82	$39,020.82	0
SYS460060M	Material for Slice Test Board Test Stand Hardware Integration	143	25-Feb-20	15-Sep-20	25-Feb-20	15-Sep-20	159	$3,047.70	$3,047.70	0
SYS460060T	Travel for Slice Test Board Test Stand Hardware Integration	143	25-Feb-20	15-Sep-20	25-Feb-20	15-Sep-20	159	$3,626.42	$3,626.42	0
SYS460070	Slice Test Board Test Stand Software Integration	154	25-Feb-20	30-Sep-20	25-Feb-20	30-Sep-20	159	$83,030.51	$83,030.51	0
SYS460050	Milestone: Slice Test Board Test Stand Complete	0		30-Sep-20		30-Sep-20	439	$0.00	$0.00	0
SYS460070T	Travel for Slice Test Board Test Stand Software Integration	55	01-Oct-20	18-Dec-20	01-Oct-20	18-Dec-20	198	$2,652.25	$3,735.16	0
SYS460075R	REQD: Slice Test Board from COLUMBIA	0	01-Oct-20		04-Jan-21		96	$0.00	$0.00	-63
SYS460080	Slice Test Board Evaluation Test	44	01-Oct-20	03-Dec-20	04-Jan-21	05-Mar-21	96	$44,818.21	$44,818.21	-63

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460080M	Material for Slice Test Board Evaluation Test	44	01-Oct-20	03-Dec-20	04-Jan-21	05-Mar-21	96	$10,609.00	$12,555.75	-63
SYS460080T	Travel for Slice Test Board Evaluation Test	44	01-Oct-20	03-Dec-20	04-Jan-21	05-Mar-21	96	$2,652.25	$3,735.16	-63
SYS460100	Slice Test Board Performance Test	55	04-Dec-20	23-Feb-21	08-Mar-21	21-May-21	96	$66,035.79	$66,035.79	-63
SYS460100T	Travel for Slice Test Board Performance Test	55	04-Dec-20	23-Feb-21	08-Mar-21	21-May-21	96	$2,652.25	$3,735.16	-63
SYS460110	Milestone: Slice Test Board Performance Test Complete	0		23-Feb-21		21-May-21	96	$0.00	$0.00	-63
6.04.04.01.02 FEB2 FE Crate System Integration		**394**	**24-Feb-21**	**13-Sep-22**	**24-May-21**	**13-Dec-22**	**96**	**$299,906.46**	**$314,814.23**	**-63**
No AP2 Task Group - Temp		**394**	**24-Feb-21**	**13-Sep-22**	**24-May-21**	**13-Dec-22**	**96**	**$299,906.46**	**$314,814.23**	**-63**
SYS460120	FEB2 FEC Test Stand Electrical Design	60	24-Feb-21	18-May-21	24-May-21	17-Aug-21	96	$33,034.51	$33,034.51	-63
SYS460120T	Travel for FEB2 FEC Test Stand Electrical Design	60	24-Feb-21	18-May-21	24-May-21	17-Aug-21	96	$2,652.25	$3,735.16	-63
SYS460130	FEB2 FEC Test Stand Mechanical Design	60	19-May-21	12-Aug-21	18-Aug-21	11-Nov-21	96	$38,921.45	$39,485.33	-63
SYS460130T	Travel for FEB2 FEC Test Stand Mechanical Design	60	19-May-21	12-Aug-21	18-Aug-21	11-Nov-21	96	$2,652.25	$3,789.39	-63
SYS460140	FEB2 FEC Test Stand Fabrication	60	13-Aug-21	08-Nov-21	12-Nov-21	08-Feb-22	96	$20,628.19	$20,974.07	-63
SYS460140M	Material for FEB2 FEC Test Stand Fabrication	60	13-Aug-21	08-Nov-21	12-Nov-21	08-Feb-22	96	$10,609.00	$12,932.37	-63
SYS460140T	Travel for FEB2 FEC Test Stand Fabrication	60	13-Aug-21	08-Nov-21	12-Nov-21	08-Feb-22	96	$2,652.25	$3,847.35	-63
SYS460150	FEB2 FEC Test Stand Assembly	60	09-Nov-21	03-Feb-22	09-Feb-22	04-May-22	96	$51,607.26	$51,607.26	-63
SYS460150M	Material for FEB2 FEC Test Stand Assembly	60	09-Nov-21	03-Feb-22	09-Feb-22	04-May-22	96	$10,609.00	$12,932.37	-63
SYS460150T	Travel for FEB2 FEC Test Stand Assembly	60	09-Nov-21	03-Feb-22	09-Feb-22	04-May-22	96	$2,652.25	$3,847.35	-63
SYS460160	Milestone: FEB2 FEC Test Stand Complete	0		03-Feb-22		04-May-22	96	$0.00	$0.00	-63
SYS460170	FEB2 FEC Test Stand Hardware Integration	45	04-Feb-22	08-Apr-22	05-May-22	08-Jul-22	96	$43,604.00	$43,604.00	-63
SYS460170M	Material for FEB2 FEC Test Stand Hardware Integration	45	04-Feb-22	08-Apr-22	05-May-22	08-Jul-22	96	$5,304.50	$6,466.19	-63
SYS460170T	Travel for FEB2 FEC Test Stand Hardware Integration	45	04-Feb-22	08-Apr-22	05-May-22	08-Jul-22	96	$2,652.25	$3,847.35	-63
SYS460180	FEB2 FEC Test Stand Software Integration	43	11-Apr-22	09-Jun-22	11-Jul-22	08-Sep-22	96	$22,145.39	$22,145.39	-63
SYS460189R	REQD: FEB2 Prototype Boards	0	10-Jun-22		09-Sep-22		96	$0.00	$0.00	-63
SYS460190	FEB2 FEC Evaluation Test	44	10-Jun-22	11-Aug-22	09-Sep-22	10-Nov-22	96	$22,732.02	$23,166.25	-63
SYS460190M	Material for FEB2 FEC Evaluation Test	44	10-Jun-22	11-Aug-22	09-Sep-22	10-Nov-22	96	$5,304.50	$6,589.73	-63
SYS460195	Document FEB2 FEC Evaluation Test	22	12-Aug-22	13-Sep-22	11-Nov-22	13-Dec-22	96	$22,145.39	$22,810.13	-63
SYS460210EX	External Milestone: FEB2 FDR	0	13-Jun-22		21-Nov-22		111	$0.00	$0.00	-113
SYS460200	Milestone: FEB2 FEC Evaluation Test Complete	0		13-Sep-22		13-Dec-22	96	$0.00	$0.00	-63
6.04.04.01.03 FEB2 Production System Integration		**599**	**14-Sep-22**	**03-Feb-25**	**14-Dec-22**	**25-Apr-25**	**113**	**$930,129.69**	**$988,062.39**	**-58**
No AP2 Task Group - Temp		**599**	**14-Sep-22**	**03-Feb-25**	**14-Dec-22**	**25-Apr-25**	**113**	**$930,129.69**	**$988,062.39**	**-58**
SYS460220	FEB2 Prod Test Stand Electrical Design	21	14-Sep-22	13-Oct-22	14-Dec-22	13-Jan-23	96	$33,672.11	$34,290.73	-63



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

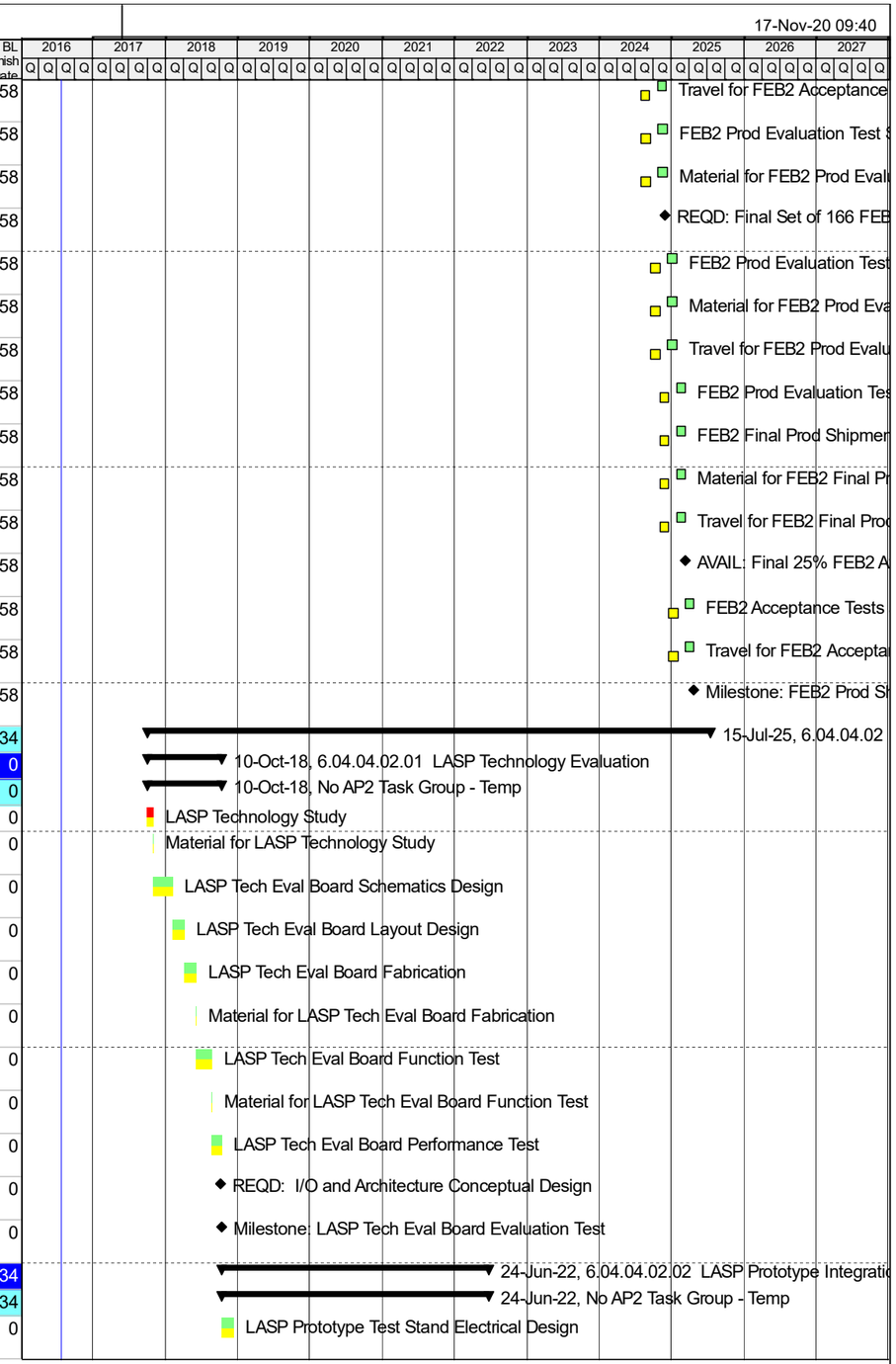
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460220T	Travel for FEB2 Prod Test Stand Electrical Design	21	14-Sep-22	13-Oct-22	14-Dec-22	13-Jan-23	96	$2,652.25	$3,962.73	-63
SYS460230	FEB2 Prod Test Stand Mechanical Design	21	14-Oct-22	11-Nov-22	16-Jan-23	13-Feb-23	96	$42,223.83	$42,223.83	-63
SYS460230T	Travel for FEB2 Prod Test Stand Mechanical Design	21	14-Oct-22	11-Nov-22	16-Jan-23	13-Feb-23	96	$2,652.25	$3,962.73	-63
SYS460240	FEB2 Prod Test Stand Fabrication	21	14-Nov-22	13-Dec-22	14-Feb-23	15-Mar-23	96	$20,466.62	$20,466.62	-63
SYS460240M	Material for FEB2 Prod Test Stand Fabrication	21	14-Nov-22	13-Dec-22	14-Feb-23	15-Mar-23	96	$5,304.50	$6,660.33	-63
SYS460240T	Travel for FEB2 Prod Test Stand Fabrication	21	14-Nov-22	13-Dec-22	14-Feb-23	15-Mar-23	96	$2,652.25	$3,962.73	-63
SYS460250	FEB2 Prod Test Stand Assembly	21	14-Dec-22	13-Jan-23	16-Mar-23	13-Apr-23	96	$27,004.57	$27,004.57	-63
SYS460250M	Material for FEB2 Prod Test Stand Assembly	21	14-Dec-22	13-Jan-23	16-Mar-23	13-Apr-23	96	$10,609.00	$13,320.66	-63
SYS460250T	Travel for FEB2 Prod Test Stand Assembly	21	14-Dec-22	13-Jan-23	16-Mar-23	13-Apr-23	96	$2,652.25	$3,962.73	-63
SYS460260	Milestone: FEB2 Prod Test Stand Complete	0		13-Jan-23		13-Apr-23	96	$0.00	$0.00	-63
SYS460270	FEB2 Prod Test Stand Hardware/Software Integration	20	16-Jan-23	10-Feb-23	14-Apr-23	11-May-23	96	$44,912.87	$44,912.87	-63
SYS460270M	Material for FEB2 Prod Test Stand Hardware/Software Integration	20	16-Jan-23	10-Feb-23	14-Apr-23	11-May-23	96	$5,304.50	$6,660.33	-63
SYS460270T	Travel for FEB2 Prod Test Stand Hardware/Software Integration	20	16-Jan-23	10-Feb-23	14-Apr-23	11-May-23	96	$2,652.25	$3,962.73	-63
SYS460290	FEB2 Prod Test Stand Database Integration	20	13-Feb-23	13-Mar-23	12-May-23	09-Jun-23	96	$22,810.13	$22,810.13	-63
SYS460290M	Material for FEB2 Prod Test Stand Database Integration	20	13-Feb-23	13-Mar-23	12-May-23	09-Jun-23	96	$5,304.50	$6,660.33	-63
SYS460290T	Travel for FEB2 Prod Test Stand Database Integration	20	13-Feb-23	13-Mar-23	12-May-23	09-Jun-23	96	$5,304.50	$7,925.45	-63
SYS460300	FEB2 Pre-Production Board Performance Test	20	14-Mar-23	10-Apr-23	12-Jun-23	10-Jul-23	96	$17,674.08	$17,674.08	-63
SYS460300T	Travel for for FEB2 Pre-Production Board Performance Test	20	14-Mar-23	10-Apr-23	12-Jun-23	10-Jul-23	96	$2,227.89	$3,328.69	-63
SYS460305	Milestone: Completion of FEB2 Pre-Production Board Test	0		10-Apr-23		10-Jul-23	96	$0.00	$0.00	-63
SYS460310	FEB2 Prod Test Stand Revision	30	11-Apr-23	22-May-23	11-Jul-23	21-Aug-23	96	$80,853.43	$80,853.43	-63
SYS460310M	Material for FEB2 Prod Test Stand Revision	30	11-Apr-23	22-May-23	11-Jul-23	21-Aug-23	96	$10,609.00	$13,320.66	-63
SYS460310T	Travel for FEB2 Prod Test Stand Revision	30	11-Apr-23	22-May-23	11-Jul-23	21-Aug-23	96	$2,652.25	$3,962.73	-63
SYS460315	FEB2 Prod Test Stand Revision Hardware Integration	30	23-May-23	05-Jul-23	22-Aug-23	03-Oct-23	96	$86,130.38	$86,302.82	-63
SYS460315M	Material for FEB2 Prod Test Stand Revision Hardware Integration	30	23-May-23	05-Jul-23	22-Aug-23	03-Oct-23	96	$10,609.00	$13,347.32	-63
SYS460315T	Travel for FEB2 Prod Test Stand Revision Hardware Integration	30	23-May-23	05-Jul-23	22-Aug-23	03-Oct-23	96	$2,652.25	$3,970.67	-63
SYS460320	FEB2 Prod Test Stand Revision Software Integration	35	06-Jul-23	23-Aug-23	04-Oct-23	22-Nov-23	96	$22,810.13	$23,495.15	-63
SYS460320T	Travel for FEB2 Prod Test Stand Revision Software Integration	35	06-Jul-23	23-Aug-23	04-Oct-23	22-Nov-23	96	$2,652.25	$4,081.81	-63
SYS460330	FEB2 Prod Test Stand Revision Database Integration	35	24-Aug-23	13-Oct-23	24-Nov-23	15-Jan-24	96	$22,986.28	$23,495.15	-63
SYS460330T	Travel for FEB2 Prod Test Stand Revision Database Integration	35	24-Aug-23	13-Oct-23	24-Nov-23	15-Jan-24	96	$2,652.25	$4,081.81	-63

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460339R	REQD: Set of 160 FEB2 Boards for BNL	0	12-Oct-23		18-Dec-23		114	$0.00	$0.00	-46
SYS460340	FEB2 Prod Evaluation Test Set 1 - 160 Boards	38	16-Oct-23	07-Dec-23	16-Jan-24	08-Mar-24	96	$58,142.72	$58,142.72	-63
SYS460340M	Material for FEB2 Prod Evaluation Test Set 1 - 160 Boards	38	16-Oct-23	07-Dec-23	16-Jan-24	08-Mar-24	96	$5,304.50	$6,860.31	-63
SYS460340T	Travel for FEB2 Prod Evaluation Test Set 1 - 160 Boards	38	16-Oct-23	07-Dec-23	16-Jan-24	08-Mar-24	96	$2,652.25	$4,081.81	-63
SYS460343	FEB2 Prod Evaluation Test Set 1 Shipment	38	08-Dec-23	01-Feb-24	11-Mar-24	01-May-24	147	$4,253.15	$4,253.15	-63
SYS460343M	Material for FEB2 Prod Evaluation Test Set 1 Shipment	38	08-Dec-23	01-Feb-24	11-Mar-24	01-May-24	147	$2,652.25	$3,430.15	-63
SYS460349R	REQD: Second Set of 160 FEB2 Boards for BNL	0	24-Jan-24		29-Mar-24		82	$0.00	$0.00	-46
SYS460350	FEB2 Prod Evaluation Test Set 2 - 160 Boards	44	24-Jan-24	26-Mar-24	29-Mar-24	30-May-24	82	$53,319.21	$53,319.21	-46
SYS460350T	Travel for FEB2 Prod Evaluation Test Set 2 - 160 Boards	44	24-Jan-24	26-Mar-24	29-Mar-24	30-May-24	97	$2,652.25	$4,081.81	-46
SYS460351A	AVAIL: First 25% FEB2 Available for Acceptance Test	0		26-Mar-24		30-May-24	97	$0.00	$0.00	-46
SYS460360	Milestone: FEB2 Prod Evaluation 50% Complete	0		26-Mar-24		30-May-24	184	$0.00	$0.00	-46
SYS460369R	REQD: Third Set of 160 FEB2 Boards for BNL	0	27-Mar-24		31-May-24		109	$0.00	$0.00	-46
SYS460352	FEB2 Acceptance Tests at CERN - First 25%	30	27-Mar-24	07-May-24	31-May-24	12-Jul-24	222	$24,895.52	$24,895.52	-46
SYS460352T	Travel for FEB2 Acceptance Tests at CERN - First 25%	30	27-Mar-24	07-May-24	31-May-24	12-Jul-24	222	$5,304.50	$8,163.63	-46
SYS460370	FEB2 Prod Evaluation Test Set 3 - 160 Boards	45	27-Mar-24	29-May-24	31-May-24	02-Aug-24	109	$53,319.21	$53,319.21	-46
SYS460370M	Material for FEB2 Prod Evaluation Test Set 3 - 160 Boards	45	27-Mar-24	29-May-24	31-May-24	02-Aug-24	109	$5,304.50	$6,860.31	-46
SYS460370T	Travel for FEB2 Prod Evaluation Test Set 3 - 160 Boards	45	27-Mar-24	29-May-24	31-May-24	02-Aug-24	109	$2,652.25	$4,081.81	-46
SYS460364	FEB2 Prod Evaluation Test Set 2 Shipment	40	03-Apr-24	29-May-24	07-Jun-24	02-Aug-24	82	$2,057.97	$2,057.97	-46
SYS460364M	Material for FEB2 Prod Evaluation Test Set 2 Shipment	40	03-Apr-24	29-May-24	07-Jun-24	02-Aug-24	82	$2,652.25	$3,430.15	-46
SYS460372A	AVAIL: Second 25% FEB2 Available for Acceptance Test	0		29-May-24		02-Aug-24	109	$0.00	$0.00	-46
SYS460373	FEB2 Acceptance Tests at CERN - Second 25%	30	30-May-24	11-Jul-24	05-Aug-24	16-Sep-24	207	$14,937.31	$14,937.31	-46
SYS460373T	Travel for FEB2 Acceptance Tests at CERN - Second 25%	30	30-May-24	11-Jul-24	05-Aug-24	16-Sep-24	207	$2,652.25	$4,081.81	-46
SYS460374	FEB2 Prod Evaluation Test Set 3 Shipment to CERN	59	30-May-24	21-Aug-24	05-Aug-24	28-Oct-24	164	$2,057.97	$2,077.87	-46
SYS460374M	Material for FEB2 Prod Evaluation Test Set 3 Shipment to CERN	59	30-May-24	21-Aug-24	05-Aug-24	28-Oct-24	164	$2,652.25	$3,463.29	-46
SYS460379R	REQD: Fourth Set of 160 FEB2 Boards for BNL	0	30-May-24		20-Aug-24		113	$0.00	$0.00	-58
SYS460380	FEB2 Prod Evaluation Test Set 4 - 160 Boards	42	30-May-24	29-Jul-24	20-Aug-24	21-Oct-24	113	$50,876.44	$51,373.36	-58
SYS460380T	Travel for FEB2 Prod Evaluation Test Set 4 - 160 Boards	42	30-May-24	29-Jul-24	20-Aug-24	21-Oct-24	113	$5,304.50	$8,243.86	-58
SYS460382A	AVAIL: Third 25% FEB2 Available for Acceptance Test	0		29-Jul-24		21-Oct-24	169	$0.00	$0.00	-58
SYS460383	FEB2 Acceptance Tests at CERN - Third 25%	30	30-Jul-24	10-Sep-24	21-Oct-24	03-Dec-24	183	$14,937.31	$15,385.70	-58

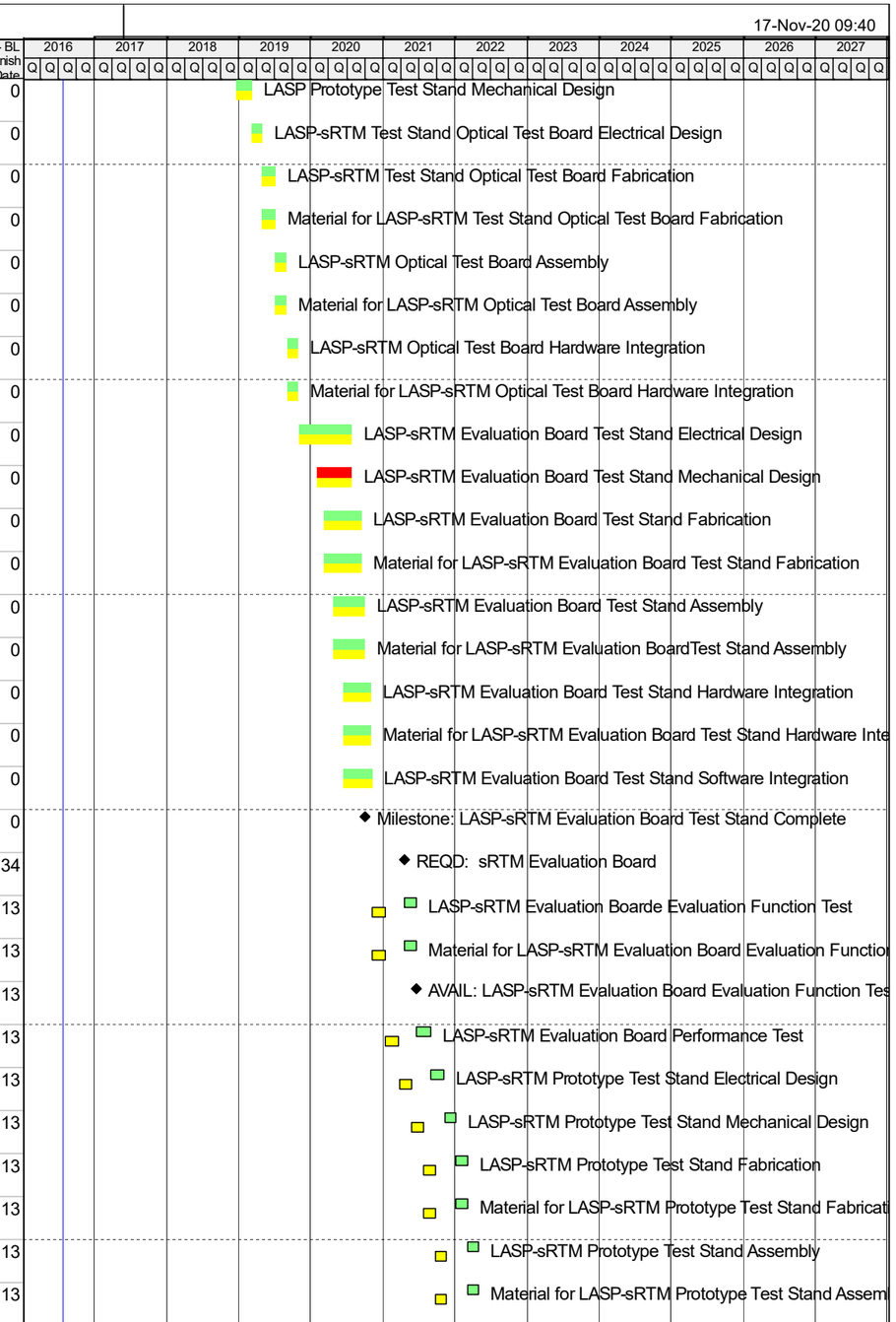
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460383T	Travel for FEB2 Acceptance Tests at CERN - Third 25%	30	30-Jul-24	10-Sep-24	21-Oct-24	03-Dec-24	183	$2,652.25	$4,204.35	-58
SYS460384	FEB2 Prod Evaluation Test Set 4 Shipment	35	30-Jul-24	17-Sep-24	21-Oct-24	10-Dec-24	113	$2,606.77	$2,685.02	-58
SYS460384M	Material for FEB2 Prod Evaluation Test Set 4 Shipment	35	30-Jul-24	17-Sep-24	21-Oct-24	10-Dec-24	113	$2,652.25	$3,533.06	-58
SYS460385R	REQD: Final Set of 166 FEB2 Boards for BNL	0	06-Sep-24		27-Nov-24		121	$0.00	$0.00	-58
SYS460390	FEB2 Prod Evaluation Test for Debug BNL Boards	35	18-Sep-24	06-Nov-24	10-Dec-24	30-Jan-25	113	$24,655.34	$24,841.50	-58
SYS460390M	Material for FEB2 Prod Evaluation Test for Debug BNL Boards	35	18-Sep-24	06-Nov-24	10-Dec-24	30-Jan-25	113	$5,304.50	$7,066.12	-58
SYS460390T	Travel for FEB2 Prod Evaluation Test for Debug BNL Boards	35	18-Sep-24	06-Nov-24	10-Dec-24	30-Jan-25	113	$2,652.25	$4,204.35	-58
SYS460400	FEB2 Prod Evaluation Test Repaired Batch	28	07-Nov-24	17-Dec-24	30-Jan-25	12-Mar-25	113	$44,875.97	$44,875.97	-58
SYS460410	FEB2 Final Prod Shipment to CERN	30	07-Nov-24	19-Dec-24	30-Jan-25	14-Mar-25	113	$2,119.75	$2,119.75	-58
SYS460410M	Material for FEB2 Final Prod Shipment to CERN	30	07-Nov-24	19-Dec-24	30-Jan-25	14-Mar-25	113	$2,652.25	$3,533.06	-58
SYS460410T	Travel for FEB2 Final Prod Shipment to CERN	30	07-Nov-24	19-Dec-24	30-Jan-25	14-Mar-25	113	$2,652.25	$4,204.35	-58
SYS460412A	AVAIL: Final 25% FEB2 Available for Acceptance Test	0		19-Dec-24		14-Mar-25	113	$0.00	$0.00	-58
SYS460413	FEB2 Acceptance Tests at CERN - Final 25%	30	20-Dec-24	03-Feb-25	14-Mar-25	25-Apr-25	113	$15,385.70	$15,385.70	-58
SYS460413T	Travel for FEB2 Acceptance Tests at CERN - Final 25%	30	20-Dec-24	03-Feb-25	14-Mar-25	25-Apr-25	113	$2,652.25	$4,204.35	-58
SYS460420	Milestone: FEB2 Prod Shipment to CERN Complete	0		03-Feb-25		25-Apr-25	113	$0.00	$0.00	-58
6.04.04.02 System Integration-BNL		1969	02-Oct-17	03-Jan-25	02-Oct-17	15-Jul-25	58	$1,500,844.87	$1,557,155.01	-134
6.04.04.02.01 LASP Technology Evaluation		260	02-Oct-17	10-Oct-18	02-Oct-17	10-Oct-18	62	$121,270.36	$123,662.36	0
No AP2 Task Group - Temp		260	02-Oct-17	10-Oct-18	02-Oct-17	10-Oct-18	62	$121,270.36	$123,662.36	0
SYS460440	LASP Technology Study	22	02-Oct-17	01-Nov-17	02-Oct-17*	01-Nov-17	0	$19,255.77	$19,255.77	0
SYS460440M	Material for LASP Technology Study	1	01-Nov-17	01-Nov-17	01-Nov-17	01-Nov-17	62	$10,000.00	$11,196.00	0
SYS460450	LASP Tech Eval Board Schematics Design	66	02-Nov-17	06-Feb-18	02-Nov-17	06-Feb-18	62	$25,170.94	$25,170.94	0
SYS460460	LASP Tech Eval Board Layout Design	42	07-Feb-18	06-Apr-18	07-Feb-18	06-Apr-18	62	$12,585.47	$12,585.47	0
SYS460470	LASP Tech Eval Board Fabrication	44	09-Apr-18	08-Jun-18	09-Apr-18	08-Jun-18	62	$12,585.47	$12,585.47	0
SYS460470M	Material for LASP Tech Eval Board Fabrication	1	08-Jun-18	08-Jun-18	08-Jun-18	08-Jun-18	62	$5,000.00	$5,598.00	0
SYS460480	LASP Tech Eval Board Function Test	54	11-Jun-18	24-Aug-18	11-Jun-18	24-Aug-18	62	$18,878.20	$18,878.20	0
SYS460480M	Material for LASP Tech Eval Board Function Test	1	24-Aug-18	24-Aug-18	24-Aug-18	24-Aug-18	62	$5,000.00	$5,598.00	0
SYS460490	LASP Tech Eval Board Performance Test	32	27-Aug-18	10-Oct-18	27-Aug-18	10-Oct-18	62	$12,794.51	$12,794.51	0
SYS460495R	REQD: I/O and Architecture Conceptual Design	0	08-Oct-18		08-Oct-18		65	$0.00	$0.00	0
SYS460500	Milestone: LASP Tech Eval Board Evaluation Test	0		10-Oct-18		10-Oct-18	62	$0.00	$0.00	0
6.04.04.02.02 LASP Prototype Integration		937	12-Oct-18	14-Dec-21	12-Oct-18	24-Jun-22	58	$472,359.86	$486,941.03	-134
No AP2 Task Group - Temp		937	12-Oct-18	14-Dec-21	12-Oct-18	24-Jun-22	58	$472,359.86	$486,941.03	-134
SYS460510	LASP Prototype Test Stand Electrical Design	45	12-Oct-18	14-Dec-18	12-Oct-18	14-Dec-18	62	$6,710.82	$6,710.82	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460520	LASP Prototype Test Stand Mechanical Design	55	17-Dec-18	06-Mar-19	17-Dec-18	06-Mar-19	62	$5,917.29	$5,917.29	0
SYS460521	LASP-sRTM Test Stand Optical Test Board Electrical Design	41	07-Mar-19	02-May-19	07-Mar-19	02-May-19	62	$2,684.33	$2,684.33	0
SYS460522	LASP-sRTM Test Stand Optical Test Board Fabrication	44	03-May-19	05-Jul-19	03-May-19	05-Jul-19	62	$3,788.43	$3,788.43	0
SYS460522M	Material for LASP-sRTM Test Stand Optical Test Board Fabrication	44	03-May-19	05-Jul-19	03-May-19	05-Jul-19	62	$2,000.00	$2,231.20	0
SYS460523	LASP-sRTM Optical Test Board Assembly	40	08-Jul-19	30-Aug-19	08-Jul-19	30-Aug-19	62	$3,788.43	$3,788.43	0
SYS460523M	Material for LASP-sRTM Optical Test Board Assembly	40	08-Jul-19	30-Aug-19	08-Jul-19	30-Aug-19	62	$2,000.00	$2,231.20	0
SYS460524	LASP-sRTM Optical Test Board Hardware Integration	43	03-Sep-19	01-Nov-19	03-Sep-19	01-Nov-19	62	$7,859.70	$7,859.70	0
SYS460524M	Material for LASP-sRTM Optical Test Board Hardware Integration	43	03-Sep-19	01-Nov-19	03-Sep-19	01-Nov-19	62	$5,941.04	$6,734.28	0
SYS460525	LASP-sRTM Evaluation Board Test Stand Electrical Design	185	04-Nov-19	27-Jul-20	04-Nov-19	27-Jul-20	62	$8,294.56	$8,294.56	0
SYS460526	LASP-sRTM Evaluation Board Test Stand Mechanical Design	123	03-Feb-20	27-Jul-20	03-Feb-20*	27-Jul-20	0	$7,313.76	$7,313.76	0
SYS460530	LASP-sRTM Evaluation Board Test Stand Fabrication	134	09-Mar-20	15-Sep-20	09-Mar-20*	15-Sep-20	210	$15,608.33	$15,608.33	0
SYS460530M	Material for LASP-sRTM Evaluation Board Test Stand Fabrication	134	09-Mar-20	15-Sep-20	09-Mar-20	15-Sep-20	210	$3,182.70	$3,657.24	0
SYS460540	LASP-sRTM Evaluation Board Test Stand Assembly	110	27-Apr-20	30-Sep-20	27-Apr-20	30-Sep-20	210	$39,020.82	$39,020.82	0
SYS460540M	Material for LASP-sRTM Evaluation BoardTest Stand Assembly	110	27-Apr-20	30-Sep-20	27-Apr-20	30-Sep-20	242	$3,657.24	$3,657.24	0
SYS460560	LASP-sRTM Evaluation Board Test Stand Hardware Integration	96	16-Jun-20	30-Oct-20	16-Jun-20	30-Oct-20	210	$41,744.99	$41,744.99	0
SYS460560M	Material for LASP-sRTM Evaluation Board Test Stand Hardware Integration	96	16-Jun-20	30-Oct-20	16-Jun-20	30-Oct-20	210	$3,067.66	$3,067.66	0
SYS460570	LASP-sRTM Evaluation Board Test Stand Software Integration	101	16-Jun-20	06-Nov-20	16-Jun-20	06-Nov-20	210	$35,663.46	$35,663.46	0
SYS460550	Milestone: LASP-sRTM Evaluation Board Test Stand Complete	0		30-Sep-20		30-Sep-20	242	$0.00	$0.00	0
SYS460575R	REQD: sRTM Evaluation Board	0	08-Oct-20		21-Apr-21		97	$0.00	$0.00	-134
SYS460580	LASP-sRTM Evaluation Boarde Evaluation Function Test	43	09-Nov-20	11-Jan-21	21-Apr-21	21-Jun-21	97	$37,591.00	$37,591.00	-113
SYS460580M	Material for LASP-sRTM Evaluation Board Evaluation Function Test	43	09-Nov-20	11-Jan-21	21-Apr-21	21-Jun-21	97	$15,913.50	$18,833.63	-113
SYS460585A	AVAIL: LASP-sRTM Evaluation Board Evaluation Function Test	0	12-Jan-21		22-Jun-21		97	$0.00	$0.00	-113
SYS460590	LASP-sRTM Evaluation Board Performance Test	50	12-Jan-21	23-Mar-21	22-Jun-21	31-Aug-21	97	$33,034.51	$33,034.51	-113
SYS460600	LASP-sRTM Prototype Test Stand Electrical Design	47	24-Mar-21	27-May-21	01-Sep-21	08-Nov-21	97	$43,144.21	$43,859.61	-113
SYS460610	LASP-sRTM Prototype Test Stand Mechanical Design	40	28-May-21	26-Jul-21	09-Nov-21	06-Jan-22	97	$12,178.65	$12,543.70	-113
SYS460620	LASP-sRTM Prototype Test Stand Fabrication	40	27-Jul-21	21-Sep-21	07-Jan-22	04-Mar-22	97	$20,363.68	$20,974.07	-113
SYS460620M	Material for LASP-sRTM Prototype Test Stand Fabrication	40	27-Jul-21	21-Sep-21	07-Jan-22	04-Mar-22	97	$10,609.00	$12,932.37	-113
SYS460630	LASP-sRTM Prototype Test Stand Assembly	40	22-Sep-21	17-Nov-21	07-Mar-22	29-Apr-22	97	$21,141.83	$21,250.05	-113
SYS460630M	Material for LASP-sRTM Prototype Test Stand Assembly	40	22-Sep-21	17-Nov-21	07-Mar-22	29-Apr-22	97	$10,609.00	$12,932.37	-113

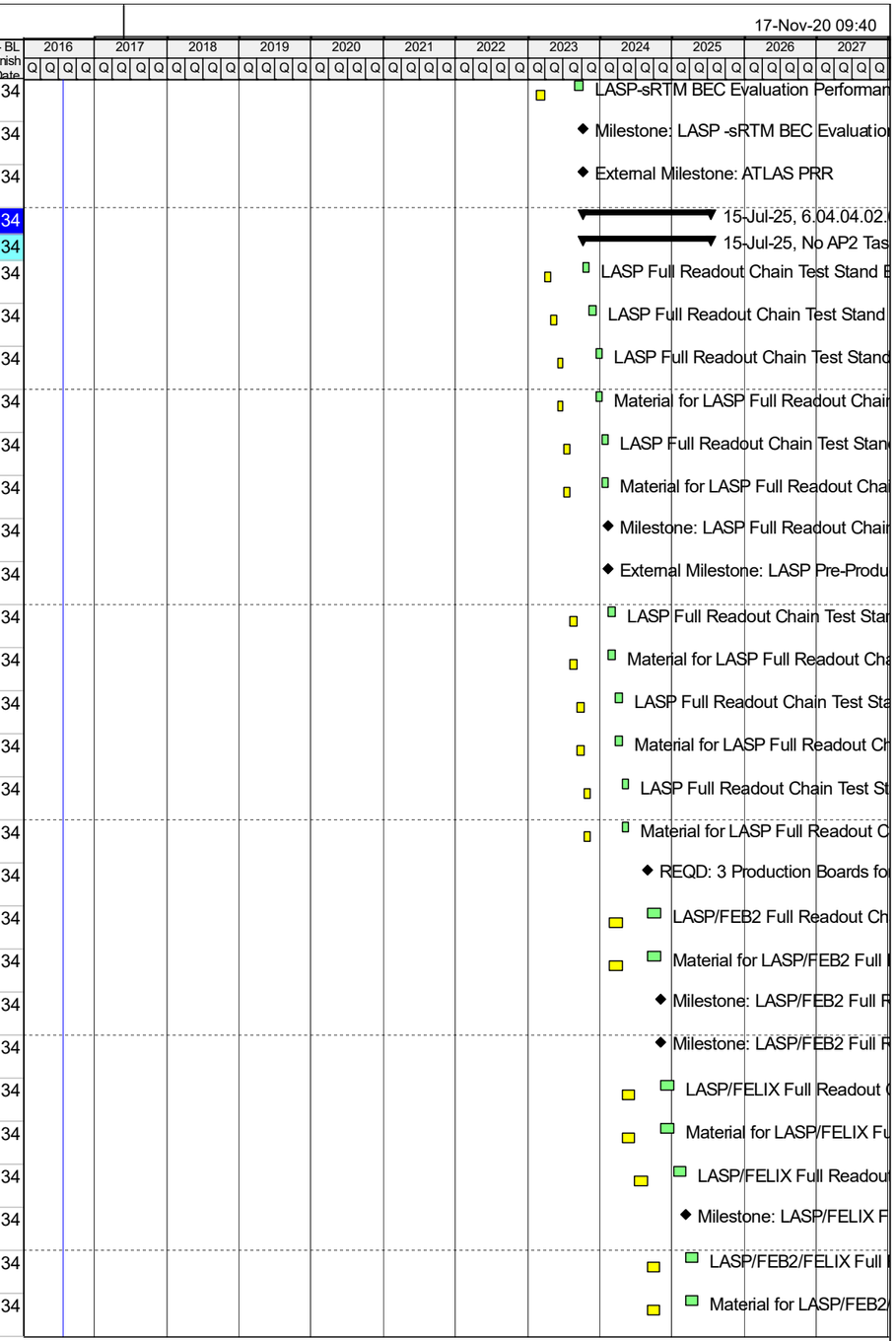


Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460635R	REQD: V2 sRTM Validation Results	0	19-Oct-21		29-Apr-22		58	$0.00	$0.00	-134
SYS460640	LASP-sRTM Prototype Test Stand Integration	20	19-Oct-21	15-Nov-21	29-Apr-22	26-May-22	58	$25,459.04	$25,459.04	-134
SYS460650	LASP-sRTM Prototype Evaluation Function Test	20	16-Nov-21	14-Dec-21	27-May-22	24-Jun-22	58	$28,158.38	$28,158.38	-134
SYS460650M	Material for LASP-sRTM Prototype Evaluation Function Test	20	16-Nov-21	14-Dec-21	27-May-22	24-Jun-22	58	$15,913.50	$19,398.56	-134
SYS460670	Milestone:Completion of LASP-sRTM Prototype Evaluation Performance Test	0		14-Dec-21		24-Jun-22	58	$0.00	$0.00	-134
6.04.04.02.03 LASP BE Crate System Integration		**325**	**15-Dec-21**	**29-Mar-23**	**27-Jun-22**	**06-Oct-23**	**125**	**$342,840.34**	**$355,398.02**	**-134**
No AP2 Task Group - Temp		**325**	**15-Dec-21**	**29-Mar-23**	**27-Jun-22**	**06-Oct-23**	**125**	**$342,840.34**	**$355,398.02**	**-134**
SYS460680	LASP -sRTM BEC Test Stand Electrical Design	20	15-Dec-21	13-Jan-22	27-Jun-22	25-Jul-22	58	$44,437.44	$44,437.44	-134
SYS460690	LASP -sRTM BEC Test Stand Mechanical Design	20	14-Jan-22	10-Feb-22	26-Jul-22	22-Aug-22	58	$49,140.25	$49,140.25	-134
SYS460700	LASP -sRTM BEC Test Stand Fabrication	20	11-Feb-22	11-Mar-22	23-Aug-22	20-Sep-22	58	$21,802.00	$21,802.00	-134
SYS460700M	Material for LASP -sRTM BEC Test Stand Fabrication	20	11-Feb-22	11-Mar-22	23-Aug-22	20-Sep-22	58	$5,304.50	$6,466.19	-134
SYS460710	LASP -sRTM BEC Test Stand Assembly	20	14-Mar-22	08-Apr-22	21-Sep-22	19-Oct-22	58	$26,769.54	$27,251.67	-134
SYS460710M	Material for LASP -sRTM BEC Test Stand Assembly	20	14-Mar-22	08-Apr-22	21-Sep-22	19-Oct-22	58	$10,609.00	$13,165.34	-134
SYS460720	Milestone: Completion of LASP -sRTM BEC Test Stand	0		08-Apr-22		19-Oct-22	58	$0.00	$0.00	-134
SYS460730	LASP -sRTM BEC Test Stand Hardware Integration	20	11-Apr-22	06-May-22	20-Oct-22	16-Nov-22	58	$23,025.34	$23,716.50	-134
SYS460730M	Material for LASP -sRTM BEC Test Stand Hardware Integration	20	11-Apr-22	06-May-22	20-Oct-22	16-Nov-22	58	$5,304.50	$6,660.33	-134
SYS460740	LASP -sRTM BEC Test Stand Software/Firmware Integration	30	09-May-22	20-Jun-22	17-Nov-22	30-Dec-22	58	$46,490.65	$47,886.18	-134
SYS460745A	AVAIL LASP -sRTM BEC Test Stand Software Integration	0		20-Jun-22		30-Dec-22	58	$0.00	$0.00	-134
SYS460755A	AVAIL LASP -sRTM BEC Test Stand Firmware Integration	0		20-Jun-22		30-Dec-22	58	$0.00	$0.00	-134
SYS460755R	REQD: 2 Prototype Boards from SBU	0	21-Jun-22		03-Jan-23		58	$0.00	$0.00	-134
SYS460760	LASP-sRTM BEC Evaluation Test	55	21-Jun-22	07-Sep-22	03-Jan-23	21-Mar-23	58	$21,118.78	$21,752.71	-134
SYS460760M	Material for LASP-sRTM BEC Evaluation Test	55	21-Jun-22	07-Sep-22	03-Jan-23	21-Mar-23	58	$8,593.29	$10,789.73	-134
SYS460761A	AVAIL: LASP-sRTM BEC Evaluation Test	0		07-Sep-22		21-Mar-23	58	$0.00	$0.00	-134
SYS460765	Milestone: LASP -sRTM BEC Evaluation Test	0		07-Sep-22		21-Mar-23	130	$0.00	$0.00	-134
SYS460770	External Milestone: ATLAS FDR	0		07-Sep-22		21-Mar-23	130	$0.00	$0.00	-134
SYS460775	LASP -sRTM BEC Test Stand Revision	45	08-Sep-22	10-Nov-22	22-Mar-23	23-May-23	130	$19,421.66	$19,637.86	-134
SYS460780	LASP -sRTM BEC Test Stand Revision Fabrication	30	11-Nov-22	23-Dec-22	24-May-23	06-Jul-23	130	$17,055.52	$17,055.52	-134
SYS460780M	Material for LASP -sRTM BEC Test Stand Revision Fabrication	30	11-Nov-22	23-Dec-22	24-May-23	06-Jul-23	130	$2,652.25	$3,330.17	-134
SYS460785	LASP -sRTM BEC Test Stand Revision Assembly	30	27-Dec-22	07-Feb-23	07-Jul-23	17-Aug-23	130	$15,723.54	$15,723.54	-134
SYS460785M	Material for LASP -sRTM BEC Test Stand Revision Assembly	30	27-Dec-22	07-Feb-23	07-Jul-23	17-Aug-23	130	$4,243.60	$5,328.26	-134

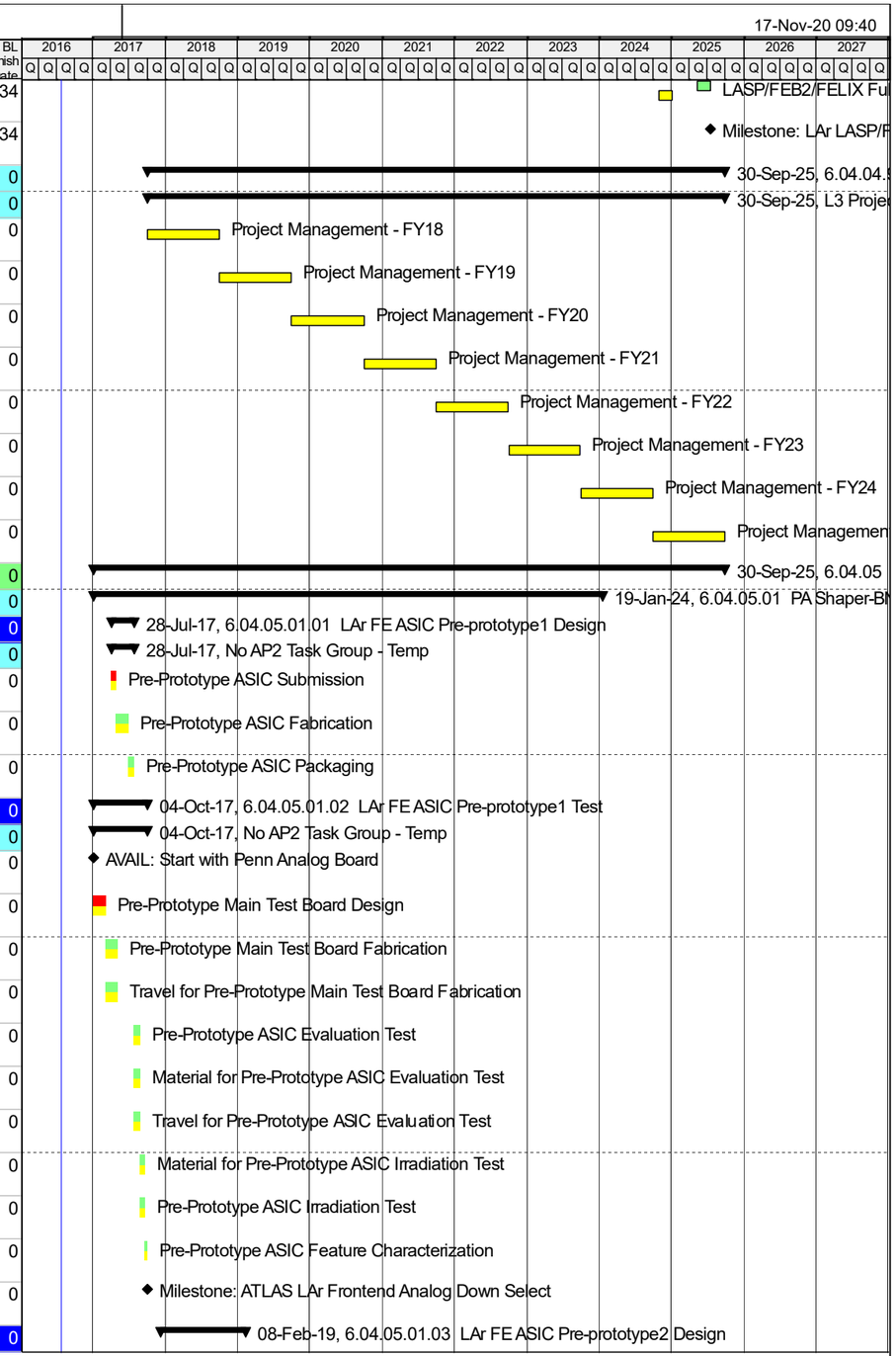
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460790	LASP-sRTM BEC Evaluation Performance Test	30	15-Feb-23	29-Mar-23	25-Aug-23	06-Oct-23	125	$21,148.47	$21,254.32	-134
SYS460795	Milestone: LASP -sRTM BEC Evaluation Performance Test	0		29-Mar-23		06-Oct-23	125	$0.00	$0.00	-134
SYS460798	External Milestone: ATLAS PRR	0		29-Mar-23		06-Oct-23	125	$0.00	$0.00	-134
6.04.04.02.04 LASP Full Chain System Integration		**447**	**30-Mar-23**	**03-Jan-25**	**09-Oct-23**	**15-Jul-25**	**58**	**$564,374.32**	**$591,153.61**	**-134**
No AP2 Task Group - Temp		**447**	**30-Mar-23**	**03-Jan-25**	**09-Oct-23**	**15-Jul-25**	**58**	**$564,374.32**	**$591,153.61**	**-134**
SYS460800	LASP Full Readout Chain Test Stand Electrical Design	22	30-Mar-23	28-Apr-23	09-Oct-23	08-Nov-23	125	$35,046.03	$36,098.51	-134
SYS460805	LASP Full Readout Chain Test Stand Mechanical Design	22	01-May-23	31-May-23	09-Nov-23	11-Dec-23	125	$20,645.72	$21,265.73	-134
SYS460810	LASP Full Readout Chain Test Stand Fabrication	22	01-Jun-23	30-Jun-23	12-Dec-23	12-Jan-24	125	$21,035.14	$21,666.85	-134
SYS460810M	Material for LASP Full Readout Chain Test Stand Fabrication	22	01-Jun-23	30-Jun-23	12-Dec-23	12-Jan-24	125	$10,609.00	$13,720.62	-134
SYS460820	LASP Full Readout Chain Test Stand Assembly	22	03-Jul-23	02-Aug-23	15-Jan-24	13-Feb-24	125	$27,573.09	$28,401.15	-134
SYS460820M	Material for LASP Full Readout Chain Test Stand Assembly	22	03-Jul-23	02-Aug-23	15-Jan-24	13-Feb-24	125	$10,609.00	$13,720.62	-134
SYS460830	Milestone: LASP Full Readout Chain Test Stand Fabrication	0		02-Aug-23		13-Feb-24	125	$0.00	$0.00	-134
SYS460839EX	External Milestone: LASP Pre-Production (x4) Available from	0		02-Aug-23		13-Feb-24	125	$0.00	$0.00	-134
SYS460840	LASP Full Readout Chain Test Stand Hardware Integration	25	03-Aug-23	07-Sep-23	14-Feb-24	20-Mar-24	125	$88,120.19	$90,766.55	-134
SYS460840M	Material for LASP Full Readout Chain Test Stand Hardware Integration	25	03-Aug-23	07-Sep-23	14-Feb-24	20-Mar-24	125	$5,304.50	$6,860.31	-134
SYS460850	LASP Full Readout Chain Test Stand Software Integration	25	08-Sep-23	13-Oct-23	21-Mar-24	24-Apr-24	125	$23,056.74	$23,495.15	-134
SYS460850M	Material for LASP Full Readout Chain Test Stand Software Integration	25	08-Sep-23	13-Oct-23	21-Mar-24	24-Apr-24	125	$5,304.50	$6,860.31	-134
SYS460860	LASP Full Readout Chain Test Stand Firmware Integration	22	16-Oct-23	14-Nov-23	25-Apr-24	24-May-24	125	$23,495.15	$23,495.15	-134
SYS460860M	Material for LASP Full Readout Chain Test Stand Firmware Integration	22	16-Oct-23	14-Nov-23	25-Apr-24	24-May-24	125	$5,304.50	$6,860.31	-134
SYS460865R	REQD: 3 Production Boards for Full Readout Chain Integration Test	0	21-Feb-24		29-Aug-24		58	$0.00	$0.00	-134
SYS460870	LASP/FEB2 Full Readout Chain Integration Test	45	21-Feb-24	24-Apr-24	29-Aug-24	04-Nov-24	58	$50,072.75	$50,870.22	-134
SYS460870M	Material for LASP/FEB2 Full Readout Chain Integration Test	45	21-Feb-24	24-Apr-24	29-Aug-24	04-Nov-24	58	$5,304.50	$6,969.51	-134
SYS460880T3	Milestone: LASP/FEB2 Full Readout Chain Integration Test Complete	0		24-Apr-24		04-Nov-24	58	$0.00	$0.00	-134
SYS460880T4	Milestone: LASP/FEB2 Full Readout Chain Integration Test Complete	0		24-Apr-24		04-Nov-24	58	$0.00	$0.00	-134
SYS460890	LASP/FELIX Full Readout Chain HW/SW/FW Integration	45	24-Apr-24	27-Jun-24	04-Nov-24	09-Jan-25	58	$37,965.68	$39,105.33	-134
SYS460890M	Material for LASP/FELIX Full Readout Chain HW/SW/FW Integration	45	24-Apr-24	27-Jun-24	04-Nov-24	09-Jan-25	58	$5,304.50	$7,066.12	-134
SYS460900	LASP/FELIX Full Readout Chain Integration Test	45	27-Jun-24	30-Aug-24	09-Jan-25	14-Mar-25	58	$53,807.08	$55,422.27	-134
SYS460910	Milestone: LASP/FELIX Full Readout Chain Integration Test	0		30-Aug-24		14-Mar-25	58	$0.00	$0.00	-134
SYS460920	LASP/FEB2/FELIX Full Readout Chain HW/SW/FW Integration	42	30-Aug-24	31-Oct-24	14-Mar-25	13-May-25	58	$65,740.35	$66,671.38	-134
SYS460920M	Material for LASP/FEB2/FELIX Full Readout Chain HW/SW/FW Integration	42	30-Aug-24	31-Oct-24	14-Mar-25	13-May-25	58	$5,304.50	$7,066.12	-134



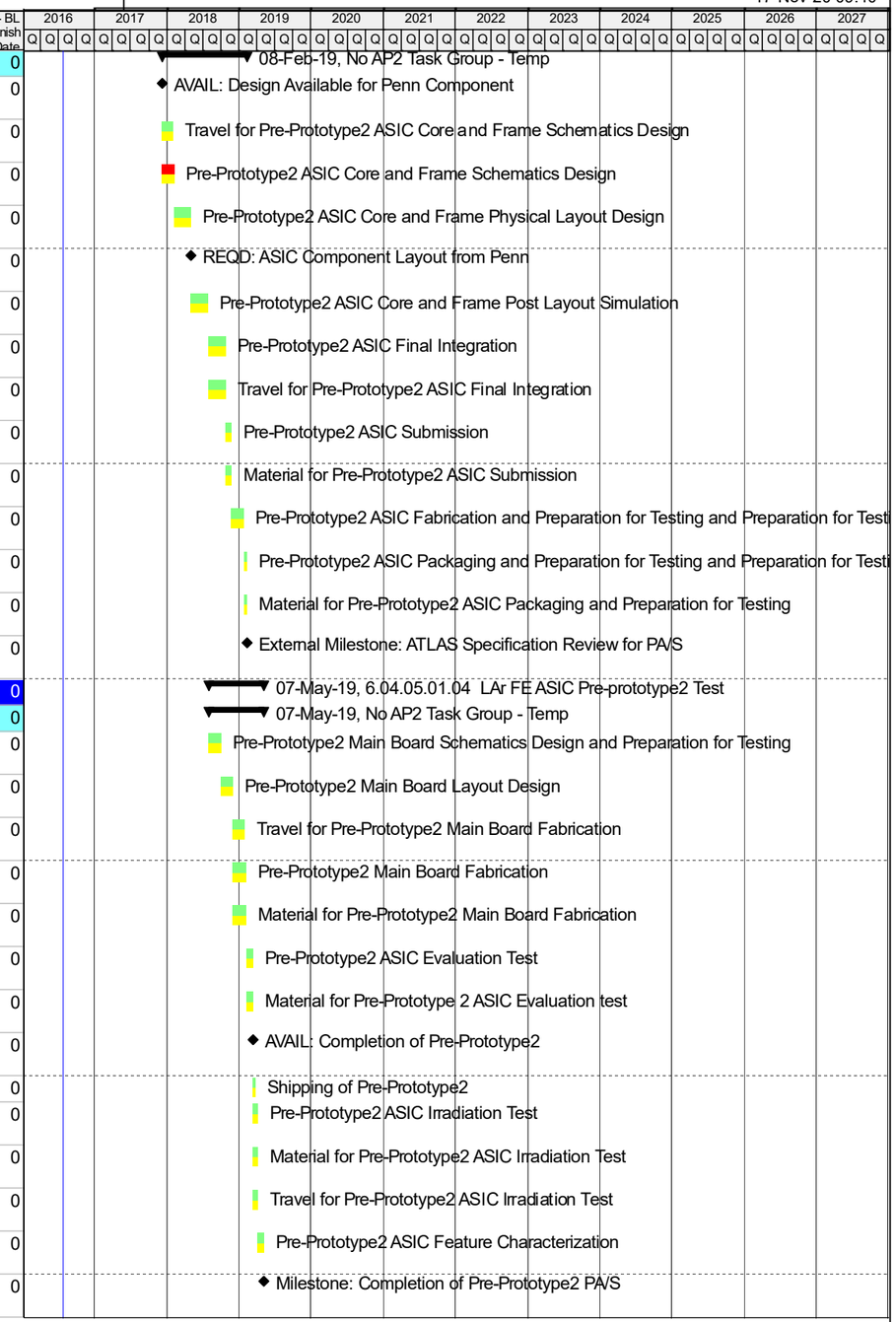
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
SYS460930	LASP/FEB2/FELIX Full Readout Chain Integration Test	43	31-Oct-24	03-Jan-25	13-May-25	15-Jul-25	58	$64,771.38	$64,771.38	-134
SYS460940	Milestone: LAr LASP/FEB2/FELIX Full Readout Chain Integration Test	0		03-Jan-25		15-Jul-25	58	$0.00	$0.00	-134
6.04.04.90 L3 Project Management		2023	02-Oct-17	30-Sep-25	02-Oct-17	30-Sep-25	0	$0.00	$0.00	0
L3 Project Management		2023	02-Oct-17	30-Sep-25	02-Oct-17	30-Sep-25	0	$0.00	$0.00	0
MGT43330	Project Management - FY18	252	02-Oct-17	28-Sep-18	02-Oct-17	28-Sep-18	0	$0.00	$0.00	0
MGT43340	Project Management - FY19	253	01-Oct-18	30-Sep-19	01-Oct-18	30-Sep-19	0	$0.00	$0.00	0
MGT43350	Project Management - FY20	254	01-Oct-19	30-Sep-20	01-Oct-19	30-Sep-20	0	$0.00	$0.00	0
MGT43360	Project Management - FY21	253	01-Oct-20	30-Sep-21	01-Oct-20	30-Sep-21	0	$0.00	$0.00	0
MGT43370	Project Management - FY22	253	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0	$0.00	$0.00	0
MGT43380	Project Management - FY23	252	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0	$0.00	$0.00	0
MGT43390	Project Management - FY24	253	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0	$0.00	$0.00	0
MGT43400	Project Management - FY25	253	01-Oct-24	30-Sep-25	01-Oct-24	30-Sep-25	0	$0.00	$0.00	0
6.04.05 PA Shaper		2213	03-Jan-17	30-Sep-25	03-Jan-17	30-Sep-25	0	$3,054,253.55	$3,141,816.06	0
6.04.05.01 PA Shaper-BNL		1782	03-Jan-17	19-Jan-24	03-Jan-17	19-Jan-24	327	$3,037,704.59	$3,122,997.60	0
6.04.05.01.01 LAr FE ASIC Pre-prototype1 Design		83	03-Apr-17	28-Jul-17	03-Apr-17	28-Jul-17	69	$68,191.18	$68,191.18	0
No AP2 Task Group - Temp		83	03-Apr-17	28-Jul-17	03-Apr-17	28-Jul-17	69	$68,191.18	$68,191.18	0
ASIC460010	Pre-Prototype ASIC Submission	21	03-Apr-17	01-May-17	03-Apr-17*	01-May-17	0	$17,047.79	$17,047.79	0
ASIC460020	Pre-Prototype ASIC Fabrication	40	01-May-17	27-Jun-17	01-May-17	27-Jun-17	69	$34,095.59	$34,095.59	0
ASIC460030	Pre-Prototype ASIC Packaging	22	27-Jun-17	28-Jul-17	27-Jun-17	28-Jul-17	69	$17,047.79	$17,047.79	0
6.04.05.01.02 LAr FE ASIC Pre-prototype1 Test		193	03-Jan-17	04-Oct-17	03-Jan-17	04-Oct-17	191	$93,523.82	$95,851.32	0
No AP2 Task Group - Temp		193	03-Jan-17	04-Oct-17	03-Jan-17	04-Oct-17	191	$93,523.82	$95,851.32	0
ASIC460041A	AVAIL: Start with Penn Analog Board	0		03-Jan-17		03-Jan-17	293	$0.00	$0.00	0
ASIC460040	Pre-Prototype Main Test Board Design	43	03-Jan-17	03-Mar-17	03-Jan-17*	03-Mar-17	0	$0.00	$0.00	0
ASIC460050	Pre-Prototype Main Test Board Fabrication	44	06-Mar-17	04-May-17	06-Mar-17	04-May-17	128	$34,095.59	$34,095.59	0
ASIC460050T	Travel for Pre-Prototype Main Test Board Fabrication	44	06-Mar-17	04-May-17	06-Mar-17	04-May-17	128	$2,500.00	$3,120.00	0
ASIC460060	Pre-Prototype ASIC Evaluation Test	20	28-Jul-17	25-Aug-17	28-Jul-17	25-Aug-17	69	$17,047.79	$17,047.79	0
ASIC460060M	Material for Pre-Prototype ASIC Evaluation Test	20	28-Jul-17	25-Aug-17	28-Jul-17	25-Aug-17	191	$10,000.00	$10,870.00	0
ASIC460060T	Travel for Pre-Prototype ASIC Evaluation Test	20	28-Jul-17	25-Aug-17	28-Jul-17	25-Aug-17	191	$2,500.00	$3,120.00	0
ASIC460070M	Material for Pre-Prototype ASIC Irradiation Test	16	25-Aug-17	19-Sep-17	25-Aug-17	19-Sep-17	192	$2,500.00	$2,717.50	0
ASIC460070	Pre-Prototype ASIC Irradiation Test	17	25-Aug-17	20-Sep-17	25-Aug-17	20-Sep-17	191	$15,284.23	$15,284.23	0
ASIC460080	Pre-Prototype ASIC Feature Characterization	10	20-Sep-17	04-Oct-17	20-Sep-17	04-Oct-17	191	$9,596.20	$9,596.20	0
ASIC460090	Milestone: ATLAS LAr Frontend Analog Down Select	0		04-Oct-17		04-Oct-17	191	$0.00	$0.00	0
6.04.05.01.03 LAr FE ASIC Pre-prototype2 Design		298	06-Dec-17	08-Feb-19	06-Dec-17	08-Feb-19	106	$367,688.43	$373,920.73	0



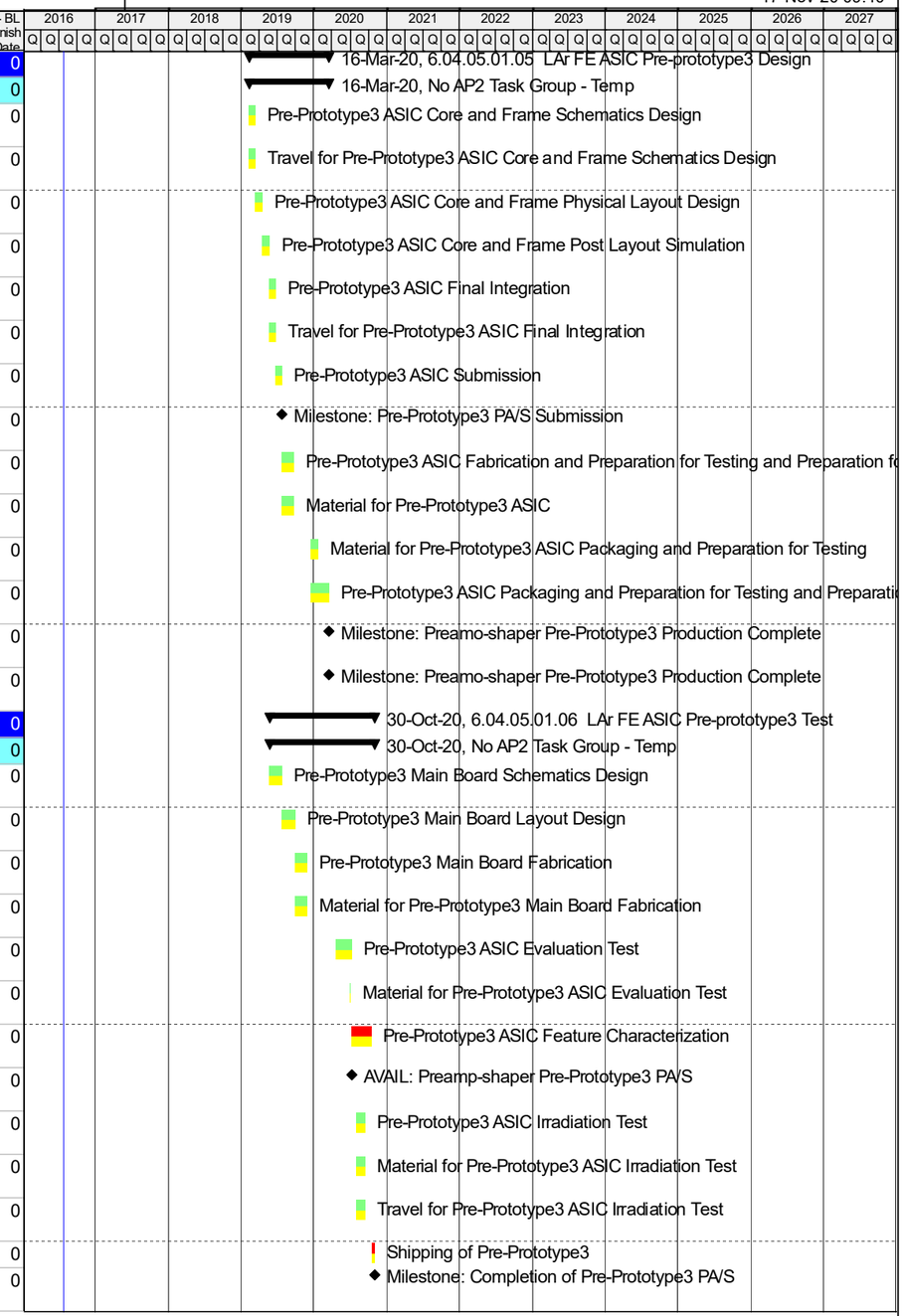
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
No AP2 Task Group - Temp		**298**	**06-Dec-17**	**08-Feb-19**	**06-Dec-17**	**08-Feb-19**	**106**	**$367,688.43**	**$373,920.73**	**0**
ASIC460101A	AVAIL: Design Available for Penn Component	0		06-Dec-17		06-Dec-17	166	$0.00	$0.00	0
ASIC460100T	Travel for Pre-Prototype2 ASIC Core and Frame Schematics Design	41	06-Dec-17	02-Feb-18	06-Dec-17	02-Feb-18	108	$2,500.00	$3,213.50	0
ASIC460100	Pre-Prototype2 ASIC Core and Frame Schematics Design	43	06-Dec-17	06-Feb-18	06-Dec-17*	06-Feb-18	0	$36,497.86	$36,497.86	0
ASIC460110	Pre-Prototype2 ASIC Core and Frame Physical Layout Design	60	07-Feb-18	02-May-18	07-Feb-18	02-May-18	106	$60,410.25	$60,410.25	0
ASIC460129R	REQD: ASIC Component Layout from Penn	0	03-May-18		03-May-18		166	$0.00	$0.00	0
ASIC460120	Pre-Prototype2 ASIC Core and Frame Post Layout Simulation	60	03-May-18	27-Jul-18	03-May-18	27-Jul-18	106	$60,410.25	$60,410.25	0
ASIC460130	Pre-Prototype2 ASIC Final Integration	60	30-Jul-18	23-Oct-18	30-Jul-18	23-Oct-18	106	$61,480.54	$61,480.54	0
ASIC460130T	Travel for Pre-Prototype2 ASIC Final Integration	60	30-Jul-18	23-Oct-18	30-Jul-18	23-Oct-18	106	$0.00	$0.00	0
ASIC460140	Pre-Prototype2 ASIC Submission	22	24-Oct-18	23-Nov-18	24-Oct-18	23-Nov-18	106	$19,461.37	$19,461.37	0
ASIC460140M	Material for Pre-Prototype2 ASIC Submission	22	24-Oct-18	23-Nov-18	24-Oct-18	23-Nov-18	106	$42,436.00	$47,341.60	0
ASIC460150	Pre-Prototype2 ASIC Fabrication and Preparation for Testing and Preparation	43	26-Nov-18	25-Jan-19	26-Nov-18	25-Jan-19	106	$38,922.74	$38,922.74	0
ASIC460160	Pre-Prototype2 ASIC Packaging and Preparation for Testing and Preparation	10	28-Jan-19	08-Feb-19	28-Jan-19	08-Feb-19	106	$40,264.91	$40,264.91	0
ASIC460160M	Material for Pre-Prototype2 ASIC Packaging and Preparation for Testing	10	28-Jan-19	08-Feb-19	28-Jan-19	08-Feb-19	106	$5,304.50	$5,917.70	0
ASIC460170	External Milestone: ATLAS Specification Review for PA/S	0		08-Feb-19		08-Feb-19	106	$0.00	$0.00	0
6.04.05.01.04 LAr FE ASIC Pre-prototype2 Test		**196**	**30-Jul-18**	**07-May-19**	**30-Jul-18**	**07-May-19**	**139**	**$220,026.91**	**$223,603.74**	**0**
No AP2 Task Group - Temp		**196**	**30-Jul-18**	**07-May-19**	**30-Jul-18**	**07-May-19**	**139**	**$220,026.91**	**$223,603.74**	**0**
ASIC460180	Pre-Prototype2 Main Board Schematics Design and Preparation for Testing	44	30-Jul-18	28-Sep-18	30-Jul-18	28-Sep-18	109	$37,756.41	$37,756.41	0
ASIC460190	Pre-Prototype2 Main Board Layout Design	44	28-Sep-18	03-Dec-18	28-Sep-18	03-Dec-18	109	$40,257.78	$40,257.78	0
ASIC460200T	Travel for Pre-Prototype2 Main Board Fabrication	42	03-Dec-18	01-Feb-19	03-Dec-18	01-Feb-19	111	$2,652.25	$3,520.86	0
ASIC460200	Pre-Prototype2 Main Board Fabrication	44	03-Dec-18	05-Feb-19	03-Dec-18	05-Feb-19	109	$40,264.91	$40,264.91	0
ASIC460200M	Material for Pre-Prototype2 Main Board Fabrication	44	03-Dec-18	06-Feb-19	03-Dec-18	06-Feb-19	109	$10,609.00	$11,835.40	0
ASIC460210	Pre-Prototype2 ASIC Evaluation Test	20	11-Feb-19	11-Mar-19	11-Feb-19	11-Mar-19	106	$32,211.93	$32,211.93	0
ASIC460210M	Material for Pre-Prototype 2 ASIC Evaluation test	20	11-Feb-19	11-Mar-19	11-Feb-19	11-Mar-19	122	$2,652.25	$2,958.85	0
ASIC460245A	AVAIL: Completion of Pre-Prototype2	0		11-Mar-19		11-Mar-19	122	$0.00	$0.00	0
ASIC460240	Shipping of Pre-Prototype2	10	12-Mar-19	25-Mar-19	12-Mar-19	25-Mar-19	170	$5,368.65	$5,368.65	0
ASIC460220	Pre-Prototype2 ASIC Irradiation Test	20	12-Mar-19	08-Apr-19	12-Mar-19	08-Apr-19	139	$32,211.93	$32,211.93	0
ASIC460220M	Material for Pre-Prototype2 ASIC Irradiation Test	20	12-Mar-19	08-Apr-19	12-Mar-19	08-Apr-19	139	$2,652.25	$2,958.85	0
ASIC460220T	Travel for Pre-Prototype2 ASIC Irradiation Test	20	12-Mar-19	08-Apr-19	12-Mar-19	08-Apr-19	139	$2,652.25	$3,520.86	0
ASIC460230	Pre-Prototype2 ASIC Feature Characterization	21	09-Apr-19	07-May-19	09-Apr-19	07-May-19	139	$10,737.31	$10,737.31	0
ASIC460250	Milestone: Completion of Pre-Prototype2 PA/S	0		07-May-19		07-May-19	139	$0.00	$0.00	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
6.04.05.01.05 LAr FE ASIC Pre-prototype3 Design		**277**	**11-Feb-19**	**16-Mar-20**	**11-Feb-19**	**16-Mar-20**	**1299**	**$306,626.66**	**$314,060.39**	**0**
No AP2 Task Group - Temp		**277**	**11-Feb-19**	**16-Mar-20**	**11-Feb-19**	**16-Mar-20**	**1299**	**$306,626.66**	**$314,060.39**	**0**
ASIC460260	Pre-Prototype3 ASIC Core and Frame Schematics Design	20	11-Feb-19	11-Mar-19	11-Feb-19	11-Mar-19	106	$38,922.74	$38,922.74	0
ASIC460260T	Travel for Pre-Prototype3 ASIC Core and Frame Schematics Design	20	11-Feb-19	11-Mar-19	11-Feb-19	11-Mar-19	106	$2,652.25	$3,520.86	0
ASIC460270	Pre-Prototype3 ASIC Core and Frame Physical Layout Design	27	12-Mar-19	17-Apr-19	12-Mar-19	17-Apr-19	106	$38,922.74	$38,922.74	0
ASIC460280	Pre-Prototype3 ASIC Core and Frame Post Layout Simulation	27	17-Apr-19	24-May-19	17-Apr-19	24-May-19	106	$38,922.74	$38,922.74	0
ASIC460290	Pre-Prototype3 ASIC Final Integration	20	24-May-19	24-Jun-19	24-May-19	24-Jun-19	106	$38,922.74	$38,922.74	0
ASIC460290T	Travel for Pre-Prototype3 ASIC Final Integration	20	24-May-19	24-Jun-19	24-May-19	24-Jun-19	106	$2,652.25	$3,520.86	0
ASIC460300	Pre-Prototype3 ASIC Submission	23	24-Jun-19	26-Jul-19	24-Jun-19	26-Jul-19	106	$38,922.74	$38,922.74	0
ASIC460305	Milestone: Pre-Prototype3 PA/S Submission	0		26-Jul-19		26-Jul-19	106	$0.00	$0.00	0
ASIC460310	Pre-Prototype3 ASIC Fabrication and Preparation for Testing and Preparation	41	26-Jul-19	24-Sep-19	26-Jul-19	24-Sep-19	106	$38,922.74	$38,922.74	0
ASIC460310M	Material for Pre-Prototype3 ASIC	41	26-Jul-19	24-Sep-19	26-Jul-19	24-Sep-19	106	$42,436.00	$47,341.60	0
ASIC460320M	Material for Pre-Prototype3 ASIC Packaging and Preparation for Testing	22	18-Dec-19	21-Jan-20	18-Dec-19	21-Jan-20	87	$5,304.50	$6,095.40	0
ASIC460320	Pre-Prototype3 ASIC Packaging and Preparation for Testing and Preparation	61	18-Dec-19	16-Mar-20	18-Dec-19*	16-Mar-20	48	$20,045.20	$20,045.20	0
ASIC460325T3	Milestone: Preamo-shaper Pre-Prototype3 Production Complete	0		16-Mar-20		16-Mar-20	1299	$0.00	$0.00	0
ASIC460325T4	Milestone: Preamo-shaper Pre-Prototype3 Production Complete	0		16-Mar-20		16-Mar-20	48	$0.00	$0.00	0
6.04.05.01.06 LAr FE ASIC Pre-prototype3 Test		**363**	**24-May-19**	**30-Oct-20**	**24-May-19**	**30-Oct-20**	**232**	**$260,559.98**	**$263,888.36**	**0**
No AP2 Task Group - Temp		**363**	**24-May-19**	**30-Oct-20**	**24-May-19**	**30-Oct-20**	**232**	**$260,559.98**	**$263,888.36**	**0**
ASIC460330	Pre-Prototype3 Main Board Schematics Design	43	24-May-19	26-Jul-19	24-May-19	26-Jul-19	122	$40,264.91	$40,264.91	0
ASIC460340	Pre-Prototype3 Main Board Layout Design	43	26-Jul-19	26-Sep-19	26-Jul-19	26-Sep-19	122	$40,264.91	$40,264.91	0
ASIC460350	Pre-Prototype3 Main Board Fabrication	43	26-Sep-19	27-Nov-19	26-Sep-19	27-Nov-19	122	$48,031.32	$48,031.32	0
ASIC460350M	Material for Pre-Prototype3 Main Board Fabrication	43	26-Sep-19	27-Nov-19	26-Sep-19	27-Nov-19	122	$10,609.00	$12,172.31	0
ASIC460360	Pre-Prototype3 ASIC Evaluation Test	57	21-Apr-20	10-Jul-20	21-Apr-20*	10-Jul-20	23	$41,472.82	$41,472.82	0
ASIC460360M	Material for Pre-Prototype3 ASIC Evaluation Test	2	01-Jul-20	02-Jul-20	01-Jul-20	02-Jul-20	23	$2,652.25	$3,047.70	0
ASIC460380	Pre-Prototype3 ASIC Feature Characterization	69	10-Jul-20	16-Oct-20	10-Jul-20*	16-Oct-20	0	$27,780.78	$27,780.78	0
ASIC460365A	AVAIL: Preamp-shaper Pre-Prototype3 PA/S	0		10-Jul-20		10-Jul-20	78	$0.00	$0.00	0
ASIC460370	Pre-Prototype3 ASIC Irradiation Test	30	03-Aug-20	14-Sep-20	03-Aug-20	14-Sep-20	23	$38,483.88	$38,483.88	0
ASIC460370M	Material for Pre-Prototype3 ASIC Irradiation Test	30	03-Aug-20	14-Sep-20	03-Aug-20	14-Sep-20	23	$2,652.25	$3,047.70	0
ASIC460370T	Travel for Pre-Prototype3 ASIC Irradiation Test	30	03-Aug-20	14-Sep-20	03-Aug-20	14-Sep-20	265	$2,652.25	$3,626.42	0
ASIC460390	Shipping of Pre-Prototype3	10	19-Oct-20	30-Oct-20	19-Oct-20	30-Oct-20	0	$5,695.61	$5,695.61	0
ASIC460400	Milestone: Completion of Pre-Prototype3 PA/S	0		30-Oct-20		30-Oct-20	0	$0.00	$0.00	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

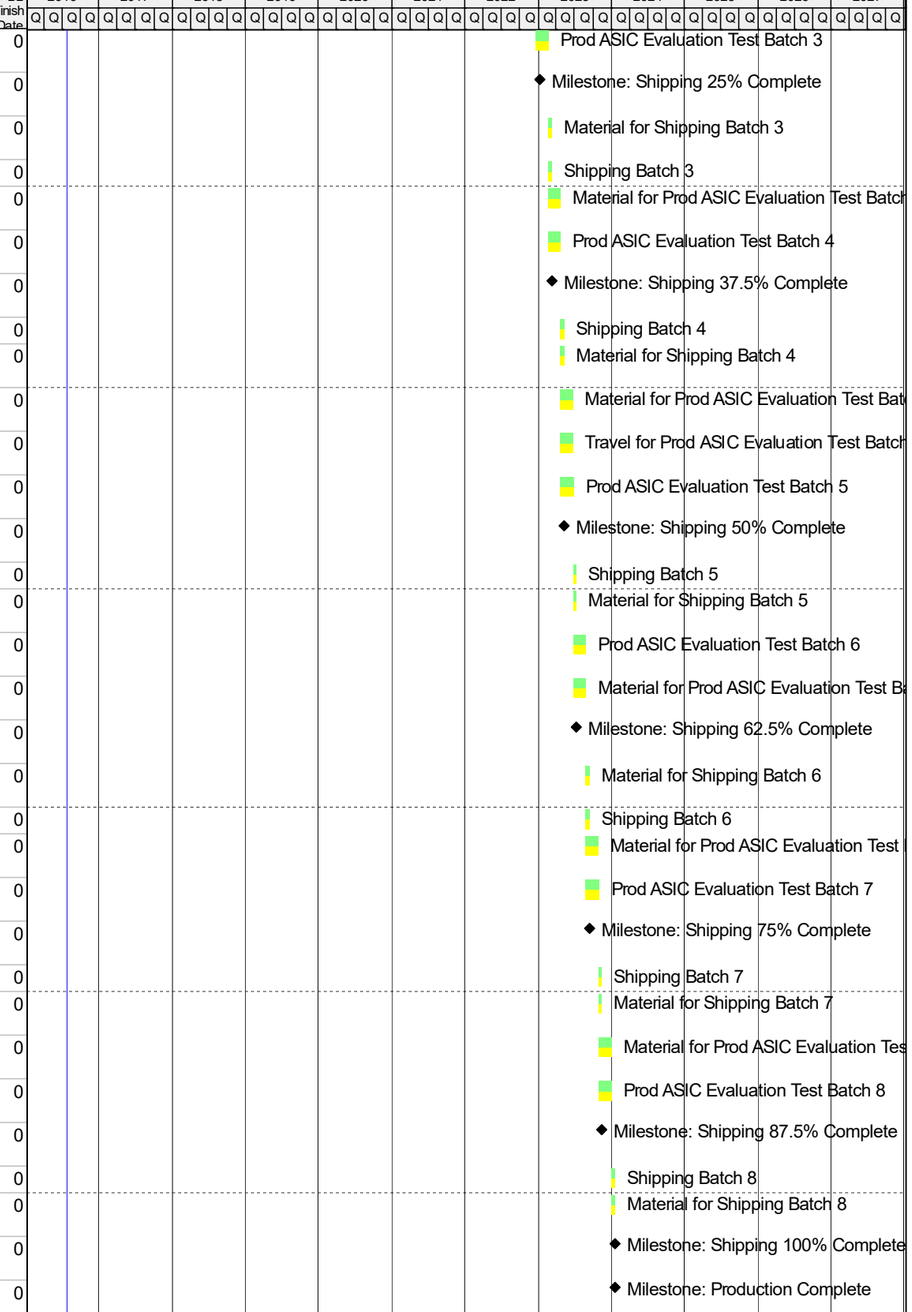
Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
ASIC460405EX	External Milestone: ATLAS PDR PA/S	0		30-Oct-20		30-Oct-20	0	$0.00	$0.00	0
6.04.05.01.07 LAr FE ASIC Prototype Design		**290**	**04-Feb-20**	**29-Mar-21**	**04-Feb-20**	**29-Mar-21**	**195**	**$318,921.68**	**$323,812.34**	**0**
No AP2 Task Group - Temp		**290**	**04-Feb-20**	**29-Mar-21**	**04-Feb-20**	**29-Mar-21**	**195**	**$318,921.68**	**$323,812.34**	**0**
ASIC460410	Prototype ASIC Core and Frame Schematics Design	43	04-Feb-20	03-Apr-20	04-Feb-20	03-Apr-20	195	$44,237.67	$44,237.67	0
ASIC460420	Prototype ASIC Core and Frame Physical Layout Design	43	06-Apr-20	04-Jun-20	06-Apr-20	04-Jun-20	195	$44,237.67	$44,237.67	0
ASIC460430	Prototype ASIC Core and Frame Post Layout Simulation	70	05-Jun-20	14-Sep-20	05-Jun-20	14-Sep-20	195	$44,237.67	$44,237.67	0
ASIC460440	Prototype ASIC Final Integration	43	15-Sep-20	13-Nov-20	15-Sep-20	13-Nov-20	195	$44,361.13	$45,194.47	0
ASIC460440T	Travel for Prototype ASIC Final Integration	43	15-Sep-20	13-Nov-20	15-Sep-20	13-Nov-20	195	$2,652.25	$3,704.82	0
ASIC460450	Prototype ASIC Submission	25	16-Nov-20	21-Dec-20	16-Nov-20	21-Dec-20	195	$20,646.57	$20,646.57	0
ASIC460450M	Material for Prototype ASIC Submission	25	16-Nov-20	21-Dec-20	16-Nov-20	21-Dec-20	195	$46,000.00	$47,058.00	0
ASIC460455	Milestone: Prototype PA/S Submission	0		21-Dec-20		21-Dec-20	195	$0.00	$0.00	0
ASIC460460	Prototype ASIC Fabrication and Preparation for Testing and Preparation	43	22-Dec-20	23-Feb-21	22-Dec-20	23-Feb-21	195	$41,293.14	$41,293.14	0
ASIC460470	Prototype ASIC Packaging and Preparation for Testing and Preparation	23	23-Feb-21	26-Mar-21	23-Feb-21	26-Mar-21	195	$20,646.57	$20,646.57	0
ASIC460470M	Material for Prototype ASIC Packaging	23	23-Feb-21	29-Mar-21	23-Feb-21	29-Mar-21	195	$10,609.00	$12,555.75	0
ASIC460475	Milestone: Prototype Production Complete	0		29-Mar-21		29-Mar-21	195	$0.00	$0.00	0
6.04.05.01.08 LAr FE ASIC Prototype Test		**220**	**15-Sep-20**	**29-Jul-21**	**15-Sep-20**	**29-Jul-21**	**244**	**$230,402.96**	**$237,968.91**	**0**
No AP2 Task Group - Temp		**220**	**15-Sep-20**	**29-Jul-21**	**15-Sep-20**	**29-Jul-21**	**244**	**$230,402.96**	**$237,968.91**	**0**
ASIC460480	Prototype Main Board Schematics Design	42	15-Sep-20	12-Nov-20	15-Sep-20	12-Nov-20	199	$27,707.79	$28,241.03	0
ASIC460490	Prototype Main Board Layout Design	43	13-Nov-20	15-Jan-21	13-Nov-20	15-Jan-21	199	$28,478.03	$28,478.03	0
ASIC460500M	Material for Prototype Main Board Fabrication	44	18-Jan-21	19-Mar-21	18-Jan-21	19-Mar-21	200	$21,218.00	$25,111.50	0
ASIC460500T	Travel for Prototype Main Board Fabrication	44	18-Jan-21	19-Mar-21	18-Jan-21	19-Mar-21	200	$2,652.25	$3,735.16	0
ASIC460500	Prototype Main Board Fabrication	45	18-Jan-21	22-Mar-21	18-Jan-21	22-Mar-21	199	$46,988.75	$46,988.75	0
ASIC460510	Prototype ASIC Evaluation/Irradiation Test	43	29-Mar-21	27-May-21	29-Mar-21	27-May-21	195	$46,988.75	$46,988.75	0
ASIC460510M	Material for Prototype ASIC Evaluation/Irradiation Test	43	29-Mar-21	27-May-21	29-Mar-21	27-May-21	195	$5,304.50	$6,277.88	0
ASIC460510T	Travel for Prototype ASIC Evaluation/Irradiation Test	43	29-Mar-21	27-May-21	29-Mar-21	27-May-21	195	$2,652.25	$3,735.16	0
ASIC460515A	AVAIL: Prototype PA/S	0		27-May-21		27-May-21	195	$0.00	$0.00	0
ASIC460520	Prototype ASIC Feature Characterization	43	27-May-21	29-Jul-21	27-May-21	29-Jul-21	244	$48,412.65	$48,412.65	0
ASIC460530	Milestone: Completion and Shipping of Prototype PA/S	0		29-Jul-21		29-Jul-21	244	$0.00	$0.00	0
ASIC460537EX	External Milestone: ATLAS FDR for PA/S	0		29-Jul-21		29-Jul-21	244	$0.00	$0.00	0
6.04.05.01.09 LAr FE ASIC Production Design		**263**	**26-Apr-21**	**10-May-22**	**26-Apr-21**	**10-May-22**	**755**	**$517,608.18**	**$540,689.23**	**0**
No AP2 Task Group - Temp		**263**	**26-Apr-21**	**10-May-22**	**26-Apr-21**	**10-May-22**	**755**	**$517,608.18**	**$540,689.23**	**0**
ASIC460540	Prod ASIC Core and Frame Schematics Design	32	26-Apr-21	10-Jun-21	26-Apr-21	10-Jun-21	212	$31,325.83	$31,325.83	0

Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
ASIC460540T	Travel for Prod ASIC Core and Frame Schematics Design	32	26-Apr-21	10-Jun-21	26-Apr-21	10-Jun-21	212	$2,652.25	$3,735.16	0
ASIC460550	Prod ASIC Core and Frame Physical Layout Design	34	10-Jun-21	29-Jul-21	10-Jun-21	29-Jul-21	212	$31,325.83	$31,325.83	0
ASIC460560	Prod ASIC Core and Frame Post Layout Simulation	32	29-Jul-21	14-Sep-21	29-Jul-21	14-Sep-21	212	$31,325.83	$31,325.83	0
ASIC460570T	Travel for Prof ASIC Final Integration	31	14-Sep-21	28-Oct-21	14-Sep-21	28-Oct-21	223	$2,652.25	$3,800.76	0
ASIC460570	Prod ASIC Final Integration	33	14-Sep-21	01-Nov-21	14-Sep-21	01-Nov-21	212	$31,325.83	$31,898.46	0
ASIC460580	Prod ASIC Submission	22	01-Nov-21	02-Dec-21	01-Nov-21	02-Dec-21	221	$21,798.67	$21,998.73	0
ASIC460580M	PMT: Material for Prod ASIC Submission	1	02-Dec-21	03-Dec-21	02-Dec-21	03-Dec-21	221	$186,000.00	$190,278.00	0
ASIC460585	Milestones: Prod PA/S Submission	0		03-Dec-21		03-Dec-21	221	$0.00	$0.00	0
ASIC460590	Prod ASIC Fabrication and Preparation for Testing and Preparation for Testing	65	03-Dec-21	09-Mar-22	03-Dec-21	09-Mar-22	221	$64,529.61	$64,529.61	0
ASIC460600	Submit Specifications for Prod ASIC Packaging and Preparation for Testing	44	09-Mar-22	10-May-22	09-Mar-22	10-May-22	221	$42,530.88	$42,530.88	0
ASIC460605M	Material for Prod ASIC Packaging and Preparation for Testing	44	09-Mar-22	10-May-22	09-Mar-22	10-May-22	221	$72,141.20	$87,940.12	0
ASIC460608	Milestone: Pre-prod PA/S Packaging Complete	0		10-May-22		10-May-22	755	$0.00	$0.00	0
6.04.05.01.10 LAr FE ASIC Production Test		**593**	**14-Sep-21**	**19-Jan-24**	**14-Sep-21**	**19-Jan-24**	**212**	**$654,154.78**	**$681,011.40**	**0**
No AP2 Task Group - Temp		**593**	**14-Sep-21**	**19-Jan-24**	**14-Sep-21**	**19-Jan-24**	**212**	**$654,154.78**	**$681,011.40**	**0**
ASIC460610	Prod Main Board Schematics Design	43	14-Sep-21	15-Nov-21	14-Sep-21	15-Nov-21	212	$21,405.05	$21,807.04	0
ASIC460620	Prod Main Board Layout Design	65	15-Nov-21	17-Feb-22	15-Nov-21	17-Feb-22	212	$35,197.97	$35,197.97	0
ASIC460630T	Travel for Prod Main Board Fabrication	65	17-Feb-22	20-May-22	17-Feb-22	20-May-22	213	$2,652.25	$3,847.35	0
ASIC460630	Prod Main Board Fabrication	66	17-Feb-22	23-May-22	17-Feb-22	23-May-22	212	$35,197.97	$35,197.97	0
ASIC460630M	Material for Prod Main Board Fabrication	66	17-Feb-22	23-May-22	17-Feb-22	23-May-22	212	$21,218.00	$25,864.74	0
ASIC460640M	Material for Prod ASIC Evaluation Test Batch 1	41	23-May-22	21-Jul-22	23-May-22	21-Jul-22	217	$7,426.30	$9,052.66	0
ASIC460640T	Travel for Prod ASIC Evaluation Test Batch 1	41	23-May-22	21-Jul-22	23-May-22	21-Jul-22	217	$2,652.25	$3,847.35	0
ASIC460640	Prod ASIC Evaluation Test Batch 1	43	23-May-22	25-Jul-22	23-May-22	25-Jul-22	212	$55,309.99	$55,309.99	0
ASIC460665EX	External Milestone: ATLAS PRR for PA/S	0		25-Jul-22		25-Jul-22	212	$0.00	$0.00	0
ASIC460650	Shipping Batch 1	11	25-Jul-22	09-Aug-22	25-Jul-22	09-Aug-22	215	$2,258.39	$2,258.39	0
ASIC460650M	Material for Shipping Batch 1	11	25-Jul-22	09-Aug-22	25-Jul-22	09-Aug-22	215	$530.45	$646.62	0
ASIC460668	WAIT: Delivery of Full Production PA/S	60	25-Jul-22	19-Oct-22	25-Jul-22	19-Oct-22	212	$0.00	$0.00	0
ASIC460660	Milestone: Shipping 12.5% Complete	0		09-Aug-22		09-Aug-22	215	$0.00	$0.00	0
ASIC460670M	Material for Prod ASIC Evaluation Test Batch 2	43	19-Oct-22	20-Dec-22	19-Oct-22	20-Dec-22	213	$7,426.30	$9,324.46	0
ASIC460670	Prod ASIC Evaluation Test Batch 2	44	19-Oct-22	21-Dec-22	19-Oct-22	21-Dec-22	212	$55,805.13	$56,388.70	0
ASIC460680	Shipping Batch 2	11	21-Dec-22	09-Jan-23	21-Dec-22	09-Jan-23	212	$2,326.18	$2,326.18	0
ASIC460680M	Material for Shipping Batch 2	11	21-Dec-22	09-Jan-23	21-Dec-22	09-Jan-23	244	$530.45	$666.03	0
ASIC460700M	Material for Prod ASIC Evaluation Test Batch 3	42	21-Dec-22	22-Feb-23	21-Dec-22	22-Feb-23	213	$7,426.30	$9,324.46	0

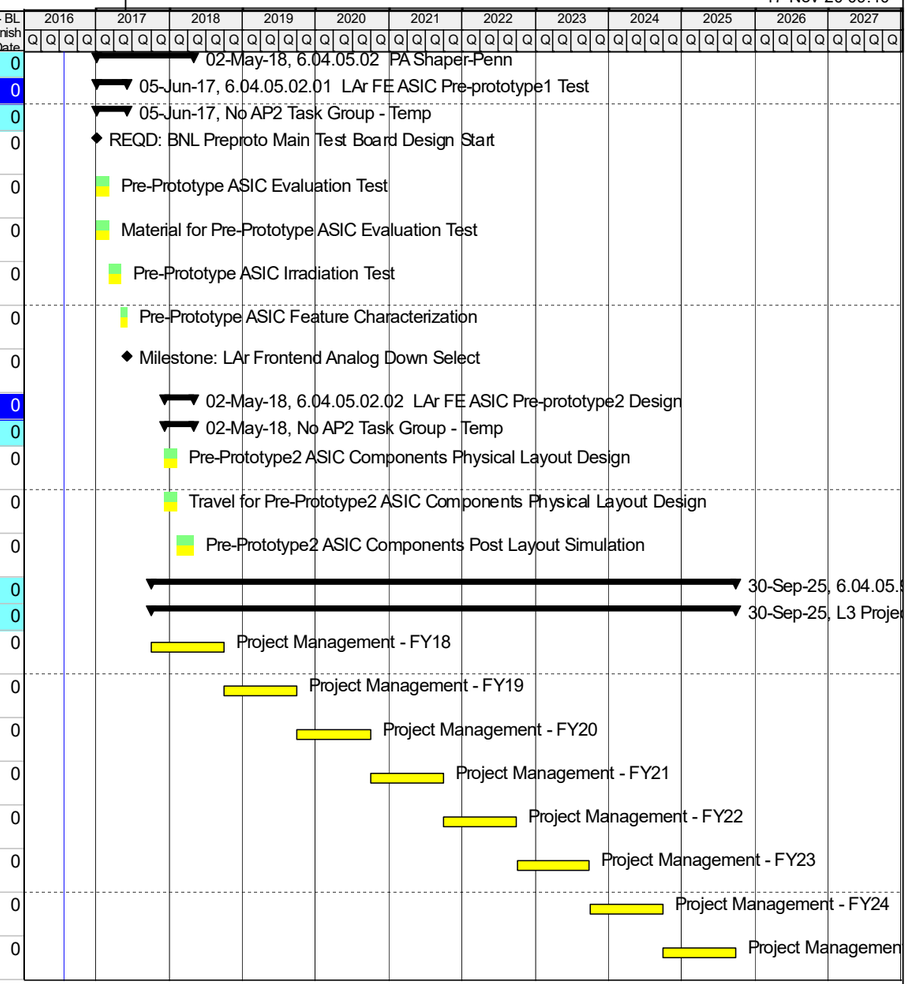
Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
ASIC460700	Prod ASIC Evaluation Test Batch 3	43	21-Dec-22	23-Feb-23	21-Dec-22	23-Feb-23	212	$56,388.70	$56,388.70	0
ASIC460685	Milestone: Shipping 25% Complete	0		09-Jan-23		09-Jan-23	244	$0.00	$0.00	0
ASIC460710M	Material for Shipping Batch 3	10	23-Feb-23	09-Mar-23	23-Feb-23	09-Mar-23	212	$530.45	$666.03	0
ASIC460710	Shipping Batch 3	11	23-Feb-23	10-Mar-23	23-Feb-23	10-Mar-23	212	$2,326.18	$2,326.18	0
ASIC460730M	Material for Prod ASIC Evaluation Test Batch 4	40	23-Feb-23	20-Apr-23	23-Feb-23	20-Apr-23	215	$7,426.30	$9,324.46	0
ASIC460730	Prod ASIC Evaluation Test Batch 4	43	23-Feb-23	25-Apr-23	23-Feb-23	25-Apr-23	212	$56,388.70	$56,388.70	0
ASIC460720	Milestone: Shipping 37.5% Complete	0		10-Mar-23		10-Mar-23	244	$0.00	$0.00	0
ASIC460740	Shipping Batch 4	11	25-Apr-23	10-May-23	25-Apr-23	10-May-23	212	$2,326.18	$2,326.18	0
ASIC460740M	Material for Shipping Batch 4	11	25-Apr-23	10-May-23	25-Apr-23	10-May-23	235	$530.45	$666.03	0
ASIC460760M	Material for Prod ASIC Evaluation Test Batch 5	42	25-Apr-23	23-Jun-23	25-Apr-23	23-Jun-23	213	$7,426.30	$9,324.46	0
ASIC460760T	Travel for Prod ASIC Evaluation Test Batch 5	42	25-Apr-23	23-Jun-23	25-Apr-23	23-Jun-23	213	$2,652.25	$3,962.73	0
ASIC460760	Prod ASIC Evaluation Test Batch 5	43	25-Apr-23	26-Jun-23	25-Apr-23	26-Jun-23	212	$56,388.70	$56,388.70	0
ASIC460750	Milestone: Shipping 50% Complete	0		10-May-23		10-May-23	235	$0.00	$0.00	0
ASIC460770	Shipping Batch 5	11	26-Jun-23	12-Jul-23	26-Jun-23	12-Jul-23	212	$2,326.18	$2,326.18	0
ASIC460770M	Material for Shipping Batch 5	11	26-Jun-23	12-Jul-23	26-Jun-23	12-Jul-23	212	$530.45	$666.03	0
ASIC460790	Prod ASIC Evaluation Test Batch 6	45	26-Jun-23	29-Aug-23	26-Jun-23	29-Aug-23	212	$56,388.70	$56,388.70	0
ASIC460790M	Material for Prod ASIC Evaluation Test Batch 6	45	26-Jun-23	29-Aug-23	26-Jun-23	29-Aug-23	212	$7,426.30	$9,324.46	0
ASIC460780	Milestone: Shipping 62.5% Complete	0		12-Jul-23		12-Jul-23	246	$0.00	$0.00	0
ASIC460800M	Material for Shipping Batch 6	9	29-Aug-23	12-Sep-23	29-Aug-23	12-Sep-23	241	$530.45	$666.03	0
ASIC460800	Shipping Batch 6	10	29-Aug-23	13-Sep-23	29-Aug-23	13-Sep-23	212	$2,326.18	$2,326.18	0
ASIC460820M	Material for Prod ASIC Evaluation Test Batch 7	41	29-Aug-23	27-Oct-23	29-Aug-23	27-Oct-23	214	$7,426.30	$9,449.94	0
ASIC460820	Prod ASIC Evaluation Test Batch 7	43	29-Aug-23	31-Oct-23	29-Aug-23	31-Oct-23	212	$56,388.70	$57,191.10	0
ASIC460805	Milestone: Shipping 75% Complete	0		13-Sep-23		13-Sep-23	240	$0.00	$0.00	0
ASIC460830	Shipping Batch 7	11	31-Oct-23	15-Nov-23	31-Oct-23	15-Nov-23	212	$2,353.97	$2,396.04	0
ASIC460830M	Material for Shipping Batch 7	11	31-Oct-23	15-Nov-23	31-Oct-23	15-Nov-23	212	$530.45	$686.03	0
ASIC460850M	Material for Prod ASIC Evaluation Test Batch 8	43	31-Oct-23	03-Jan-24	31-Oct-23	03-Jan-24	213	$7,426.30	$9,604.43	0
ASIC460850	Prod ASIC Evaluation Test Batch 8	44	31-Oct-23	04-Jan-24	31-Oct-23	04-Jan-24	212	$57,827.14	$58,082.12	0
ASIC460840	Milestone: Shipping 87.5% Complete	0		15-Nov-23		15-Nov-23	245	$0.00	$0.00	0
ASIC460860	Shipping Batch 8	11	04-Jan-24	19-Jan-24	04-Jan-24	19-Jan-24	212	$2,396.04	$2,396.04	0
ASIC460860M	Material for Shipping Batch 8	11	04-Jan-24	19-Jan-24	04-Jan-24	19-Jan-24	212	$530.45	$686.03	0
ASIC460865	Milestone: Shipping 100% Complete	0		19-Jan-24		19-Jan-24	212	$0.00	$0.00	0
ASIC460870	Milestone: Production Complete	0		19-Jan-24		19-Jan-24	212	$0.00	$0.00	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary

Activity ID	Activity Name	Dur	BL Start	BL Finish	New Start	New Finish	Total Float	BL Project Total Cost	BCP Total Cost	Variance - BL Project Finish Date
6.04.05.02 PA Shaper-Penn		**338**	**03-Jan-17**	**02-May-18**	**03-Jan-17**	**02-May-18**	**166**	**$16,548.96**	**$18,818.46**	**0**
6.04.05.02.01 LAr FE ASIC Pre-prototype1 Test		**108**	**03-Jan-17**	**05-Jun-17**	**03-Jan-17**	**05-Jun-17**	**293**	**$14,048.96**	**$15,573.96**	**0**
No AP2 Task Group - Temp		**108**	**03-Jan-17**	**05-Jun-17**	**03-Jan-17**	**05-Jun-17**	**293**	**$14,048.96**	**$15,573.96**	**0**
ASIC470008R	REQD: BNL Preproto Main Test Board Design Start	0	03-Jan-17		03-Jan-17		293	$0.00	$0.00	0
ASIC470030	Pre-Prototype ASIC Evaluation Test	43	03-Jan-17	03-Mar-17	03-Jan-17	03-Mar-17	293	$0.00	$0.00	0
ASIC470030M	Material for Pre-Prototype ASIC Evaluation Test	43	03-Jan-17	03-Mar-17	03-Jan-17	03-Mar-17	293	$2,500.00	$4,025.00	0
ASIC470040	Pre-Prototype ASIC Irradiation Test	43	06-Mar-17	03-May-17	06-Mar-17	03-May-17	293	$0.00	$0.00	0
ASIC470050	Pre-Prototype ASIC Feature Characterization	22	04-May-17	05-Jun-17	04-May-17	05-Jun-17	293	$11,548.96	$11,548.96	0
ASIC470060	Milestone: LAr Frontend Analog Down Select	0		05-Jun-17		05-Jun-17	293	$0.00	$0.00	0
6.04.05.02.02 LAr FE ASIC Pre-prototype2 Design		**103**	**06-Dec-17**	**02-May-18**	**06-Dec-17**	**02-May-18**	**166**	**$2,500.00**	**$3,244.50**	**0**
No AP2 Task Group - Temp		**103**	**06-Dec-17**	**02-May-18**	**06-Dec-17**	**02-May-18**	**166**	**$2,500.00**	**$3,244.50**	**0**
ASIC470080	Pre-Prototype2 ASIC Components Physical Layout Design	43	06-Dec-17	06-Feb-18	06-Dec-17	06-Feb-18	166	$0.00	$0.00	0
ASIC470080T	Travel for Pre-Prototype2 ASIC Components Physical Layout Design	43	06-Dec-17	06-Feb-18	06-Dec-17	06-Feb-18	166	$2,500.00	$3,244.50	0
ASIC470090	Pre-Prototype2 ASIC Components Post Layout Simulation	60	07-Feb-18	02-May-18	07-Feb-18	02-May-18	166	$0.00	$0.00	0
6.04.05.90 L3 Project Management		**2023**	**02-Oct-17**	**30-Sep-25**	**02-Oct-17**	**30-Sep-25**	**0**	**$0.00**	**$0.00**	**0**
L3 Project Management		**2023**	**02-Oct-17**	**30-Sep-25**	**02-Oct-17**	**30-Sep-25**	**0**	**$0.00**	**$0.00**	**0**
MGT43410	Project Management - FY18	252	02-Oct-17	28-Sep-18	02-Oct-17	28-Sep-18	0	$0.00	$0.00	0
MGT43420	Project Management - FY19	253	01-Oct-18	30-Sep-19	01-Oct-18	30-Sep-19	0	$0.00	$0.00	0
MGT43430	Project Management - FY20	254	01-Oct-19	30-Sep-20	01-Oct-19	30-Sep-20	0	$0.00	$0.00	0
MGT43440	Project Management - FY21	253	01-Oct-20	30-Sep-21	01-Oct-20	30-Sep-21	0	$0.00	$0.00	0
MGT43450	Project Management - FY22	253	01-Oct-21	30-Sep-22	01-Oct-21	30-Sep-22	0	$0.00	$0.00	0
MGT43460	Project Management - FY23	252	03-Oct-22	29-Sep-23	03-Oct-22	29-Sep-23	0	$0.00	$0.00	0
MGT43470	Project Management - FY24	253	02-Oct-23	30-Sep-24	02-Oct-23	30-Sep-24	0	$0.00	$0.00	0
MGT43480	Project Management - FY25	253	01-Oct-24	30-Sep-25	01-Oct-24	30-Sep-25	0	$0.00	$0.00	0



Primary Baseline | Remaining Work | Milestone
Actual Work | Critical Remaining Work | Summary