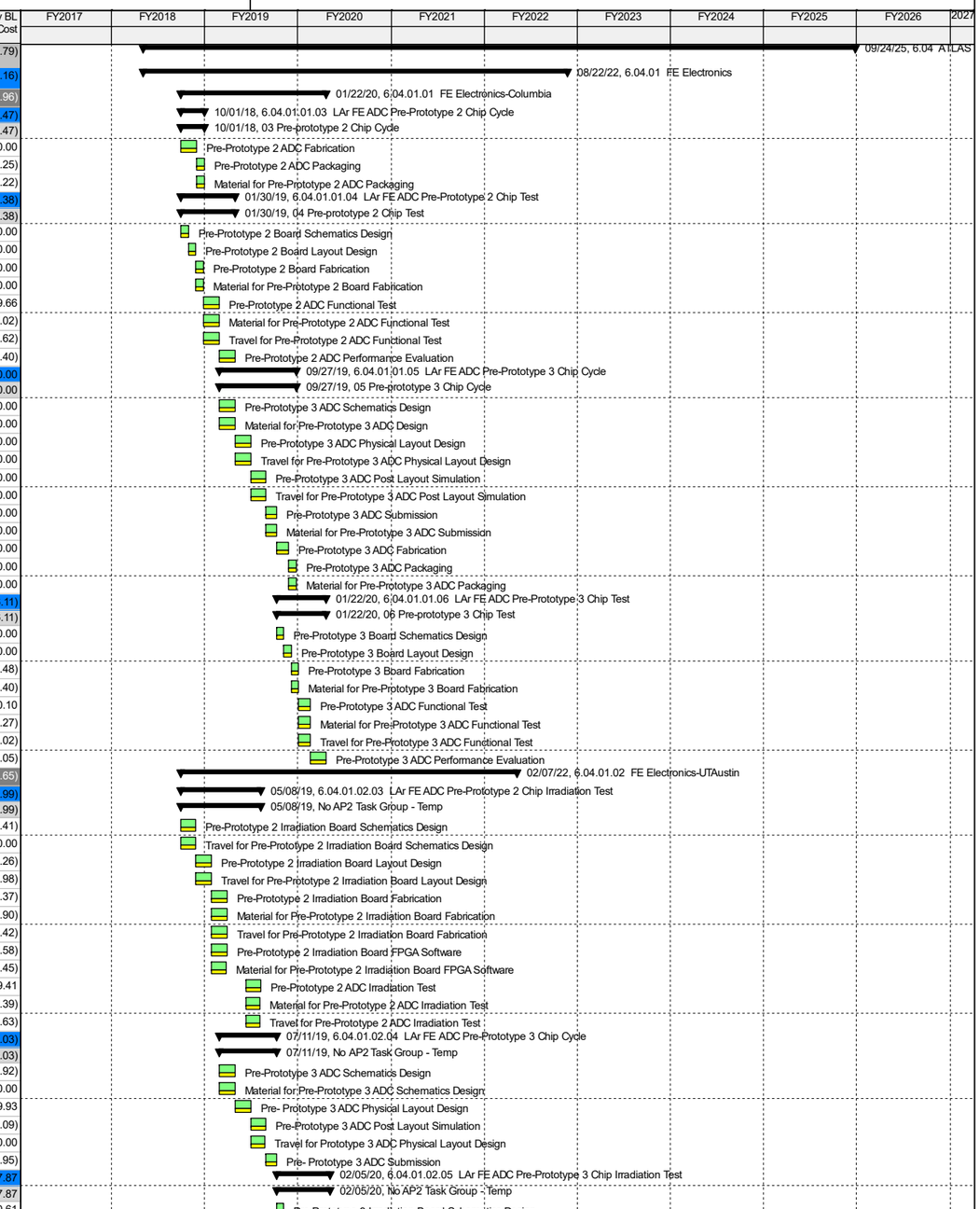
WBS	Activity ID	Activity Name	Prev BL Start	Start	Prev BL Finish	Finish	Var-Prev BL Start Date	Var-Prev BL Finish	Prev BL Hrs	Hours	Prev BL Total Cost	Planned Total Cost	Var - Prev BL Total Cost
6.04 ATLAS Upgrade Phase II - LAr			02/06/18	02/01/18	05/21/25	09/24/25	4	-87	71374.2	74341.2	$7,773,301.00	$8,006,519.79	($233,218.79)
6.04.01 FE Electronics			02/06/18	02/01/18	08/19/22	08/22/22	4	-1	35518.0	37583.0	$2,878,674.32	$3,006,392.48	($127,718.16)
6.04.01.01 FE Electronics-Columbia			02/06/18	06/29/18	10/03/19	01/22/20	-101	-75	5649.0	5649.0	$441,756.75	$444,272.71	($2,515.96)
6.04.01.01.03 LAr FE ADC Pre-Prototype 2 Chip Cycle			05/04/18	06/29/18	08/06/18	10/01/18	-39	-39	546.0	546.0	$20,211.43	$20,220.90	($9.47)
03 Pre-prototype 2 Chip Cycle			05/04/18	06/29/18	08/06/18	10/01/18	-39	-39	546.0	546.0	$20,211.43	$20,220.90	($9.47)
6.04.01.01.03	FEE410200	Pre-Prototype 2 ADC Fabrication	05/04/18	06/29/18	07/06/18	08/30/18	-39	-39	367.0	367.0	$11,839.48	$11,839.48	$0.00
6.04.01.01.03	FEE410210	Pre-Prototype 2 ADC Packaging	07/06/18	08/30/18	08/06/18	10/01/18	-39	-39	179.0	179.0	$5,796.96	$5,803.21	($6.25)
6.04.01.01.03	FEE410210M	Material for Pre-Prototype 2 ADC Packaging	07/06/18	08/30/18	08/06/18	10/01/18	-39	-39	0.0	0.0	$2,575.00	$2,578.22	($3.22)
6.04.01.01.04 LAr FE ADC Pre-Prototype 2 Chip Test			02/06/18	06/29/18	10/03/18	01/30/19	-101	-81	1485.0	1485.0	$109,473.11	$110,613.49	($1,140.38)
04 Pre-prototype 2 Chip Test			02/06/18	06/29/18	10/03/18	01/30/19	-101	-81	1485.0	1485.0	$109,473.11	$110,613.49	($1,140.38)
6.04.01.01.04	FEE410220	Pre-Prototype 2 Board Schematics Design	02/06/18	06/29/18	04/05/18	07/31/18	-101	-81	183.0	183.0	$20,534.26	$20,534.26	$0.00
6.04.01.01.04	FEE410230	Pre-Prototype 2 Board Layout Design	04/05/18	07/31/18	06/04/18	08/28/18	-81	-60	189.0	189.0	$21,207.51	$21,207.51	$0.00
6.04.01.01.04	FEE410240	Pre-Prototype 2 Board Fabrication	06/04/18	08/28/18	08/02/18	09/26/18	-60	-38	297.0	297.0	$10,274.81	$10,274.81	$0.00
6.04.01.01.04	FEE410240M	Material for Pre-Prototype 2 Board Fabrication	06/04/18	08/28/18	08/01/18	09/26/18	-60	-39	0.0	0.0	$15,450.00	$15,450.00	$0.00
6.04.01.01.04	FEE410250	Pre-Prototype 2 ADC Functional Test	08/02/18	09/26/18	10/03/18	11/28/18	-38	-38	816.0	673.0	$38,892.04	$23,812.38	$15,079.66
6.04.01.01.04	FEE410250M	Material for Pre-Prototype 2 ADC Functional Tes	08/02/18	09/26/18	10/02/18	11/27/18	-38	-38	0.0	0.0	$515.64	$529.67	($14.02)
6.04.01.01.04	FEE410250T	Travel for Pre-Prototype 2 ADC Functional Test	08/02/18	09/26/18	10/02/18	11/27/18	-38	-38	0.0	0.0	$2,598.84	$2,669.46	($70.62)
6.04.01.01.04	FEE410252	Pre-Prototype 2 ADC Performance Evaluation		11/28/18		01/30/19			0.0	143.0	$0.00	$16,135.40	($16,135.40)
6.04.01.01.05 LAr FE ADC Pre-Prototype 3 Chip Cycle			10/03/18	11/28/18	08/07/19	09/27/19	-38	-36	2134.0	2134.0	$197,725.84	$197,725.84	$0.00
05 Pre-prototype 3 Chip Cycle			10/03/18	11/28/18	08/07/19	09/27/19	-38	-36	2134.0	2134.0	$197,725.84	$197,725.84	$0.00
6.04.01.01.05	FEE410270	Pre-Prototype 3 ADC Schematics Design	10/03/18	11/28/18	12/05/18	01/30/19	-38	-38	468.0	468.0	$29,018.08	$29,018.08	$0.00
6.04.01.01.05	FEE410270M	Material for Pre-Prototype 3 ADC Design	10/03/18	11/28/18	12/03/18	01/28/19	-38	-38	0.0	0.0	$4,774.05	$4,774.05	$0.00
6.04.01.01.05	FEE410280	Pre-Prototype 3 ADC Physical Layout Design	12/05/18	01/30/19	02/05/19	04/01/19	-38	-38	456.0	456.0	$28,216.27	$28,216.27	$0.00
6.04.01.01.05	FEE410280T	Travel for Pre-Prototype 3 ADC Physical Layout	12/05/18	01/30/19	02/01/19	04/01/19	-38	-40	0.0	0.0	$2,673.40	$2,673.40	$0.00
6.04.01.01.05	FEE410290	Pre-Prototype 3 ADC Post Layout Simulation	02/05/19	04/01/19	04/03/19	05/28/19	-38	-38	432.0	432.0	$26,532.43	$26,532.43	$0.00
6.04.01.01.05	FEE410290T	Travel for Pre-Prototype 3 ADC Post Layout Sim	02/05/19	04/01/19	04/02/19	05/28/19	-38	-39	0.0	0.0	$2,673.40	$2,673.40	$0.00
6.04.01.01.05	FEE410300	Pre-Prototype 3 ADC Submission	04/05/19	05/28/19	05/20/19	07/11/19	-36	-36	295.0	295.0	$15,627.59	$15,627.59	$0.00
6.04.01.01.05	FEE410300M	Material for Pre-Prototype 3 ADC Submission	04/05/19	05/28/19	05/20/19	07/11/19	-36	-36	0.0	0.0	$68,958.50	$68,958.50	$0.00
6.04.01.01.05	FEE410310	Pre-Prototype 3 ADC Fabrication	05/20/19	07/11/19	07/08/19	08/27/19	-36	-36	261.0	261.0	$7,879.59	$7,879.59	$0.00
6.04.01.01.05	FEE410320	Pre-Prototype 3 ADC Packaging	07/08/19	08/27/19	08/07/19	09/27/19	-36	-36	222.0	222.0	$8,720.29	$8,720.29	$0.00
6.04.01.01.05	FEE410320M	Material for Pre-Prototype 3 ADC Packaging	07/08/19	08/27/19	08/07/19	09/27/19	-36	-36	0.0	0.0	$2,652.25	$2,652.25	$0.00
6.04.01.01.06 LAr FE ADC Pre-Prototype 3 Chip Test			02/05/19	07/11/19	10/03/19	01/22/20	-109	-75	1484.0	1484.0	$114,346.36	$115,712.47	($1,366.11)
06 Pre-prototype 3 Chip Test			02/05/19	07/11/19	10/03/19	01/22/20	-109	-75	1484.0	1484.0	$114,346.36	$115,712.47	($1,366.11)
6.04.01.01.06	FEE410330	Pre-Prototype 3 Board Schematics Design	02/05/19	07/11/19	04/03/19	08/08/19	-109	-89	180.0	180.0	$20,803.56	$20,803.56	$0.00
6.04.01.01.06	FEE410340	Pre-Prototype 3 Board Layout Design	04/03/19	08/08/19	06/05/19	09/06/19	-89	-65	198.0	198.0	$22,883.92	$22,883.92	$0.00
6.04.01.01.06	FEE410350	Pre-Prototype 3 Board Fabrication	06/05/19	09/06/19	08/05/19	10/04/19	-65	-43	297.0	297.0	$10,583.06	$10,642.54	($59.48)
6.04.01.01.06	FEE410350M	Material for Pre-Prototype 3 Board Fabrication	06/05/19	09/06/19	08/02/19	10/04/19	-65	-44	0.0	0.0	$16,974.40	$17,069.80	($95.40)
6.04.01.01.06	FEE410360	Pre-Prototype 3 ADC Functional Test	08/05/19	10/04/19	10/03/19	11/20/19	-43	-33	809.0	666.0	$39,893.76	$24,393.66	$15,500.10
6.04.01.01.06	FEE410360M	Material for Pre-Prototype 3 ADC Functional Tes	08/05/19	10/04/19	10/02/19	11/20/19	-43	-34	0.0	0.0	$531.08	$546.35	($15.27)
6.04.01.01.06	FEE410360T	Travel for Pre-Prototype 3 ADC Functional Test	08/05/19	10/04/19	10/02/19	11/20/19	-43	-34	0.0	0.0	$2,676.58	$2,753.60	($77.02)
6.04.01.01.06	FEE410362	Pre-Prototype 3 ADC Performance Evaluation		11/20/19		01/22/20			0.0	143.0	$0.00	$16,619.05	($16,619.05)
6.04.01.02 FE Electronics-UTAustin			02/06/18	06/29/18	02/04/22	02/07/22	-101	-1	7543.0	8534.0	$321,648.78	$365,310.43	($43,661.65)
6.04.01.02.03 LAr FE ADC Pre-Prototype 2 Chip Irradiation Test			02/06/18	06/29/18	10/05/18	05/08/19	-101	-148	1451.0	2000.0	$49,157.36	$72,506.35	($23,348.99)
No AP2 Task Group - Temp			02/06/18	06/29/18	10/05/18	05/08/19	-101	-148	1451.0	2000.0	$49,157.36	$72,506.35	($23,348.99)
6.04.01.02.03	FEE420010	Pre-Prototype 2 Irradiation Board Schematics D	02/06/18	06/29/18	04/05/18	08/28/18	-101	-101	0.0	556.0	$0.00	$14,136.41	($14,136.41)
6.04.01.02.03	FEE420010T	Travel for Pre-Prototype 2 Irradiation Board Sch	02/06/18	06/29/18	04/04/18	08/28/18	-101	-102	0.0	0.0	$845.00	$845.00	$0.00
6.04.01.02.03	FEE420020	Pre-Prototype 2 Irradiation Board Layout Desigr	04/05/18	08/28/18	06/04/18	10/26/18	-101	-101	278.0	278.0	$7,068.21	$7,165.47	($97.26)
6.04.01.02.03	FEE420020T	Travel for Pre-Prototype 2 Irradiation Board Lay	04/05/18	08/28/18	06/01/18	10/26/18	-101	-102	0.0	0.0	$845.00	$855.98	($10.98)
6.04.01.02.03	FEE420030	Pre-Prototype 2 Irradiation Board Fabrication	06/04/18	10/26/18	08/02/18	12/27/18	-101	-101	580.0	580.0	$7,246.18	$7,463.55	($217.37)
6.04.01.02.03	FEE420030M	Material for Pre-Prototype 2 Irradiation Board Fa	06/04/18	10/26/18	08/01/18	12/27/18	-101	-102	0.0	0.0	$11,330.00	$11,669.90	($339.90)
6.04.01.02.03	FEE420030T	Travel for Pre-Prototype 2 Irradiation Board Fab	06/04/18	10/26/18	08/01/18	12/27/18	-101	-102	0.0	0.0	$3,380.00	$3,475.42	($95.42)
6.04.01.02.03	FEE420040	Pre-Prototype 2 Irradiation Board FPGA Softwar	06/04/18	10/26/18	08/02/18	12/27/18	-101	-101	0.0	285.0	$0.00	$15,604.58	($15,604.58)
6.04.01.02.03	FEE420040M	Material for Pre-Prototype 2 Irradiation Board FF	06/04/18	10/26/18	08/01/18	12/26/18	-101	-101	0.0	0.0	$515.00	$530.45	($15.45)
6.04.01.02.03	FEE420070	Pre-Prototype 2 ADC Irradiation Test	08/06/18	03/11/19	10/05/18	05/08/19	-148	-148	593.0	301.0	$7,449.41	$0.00	$7,449.41
6.04.01.02.03	FEE420070M	Material for Pre-Prototype 2 ADC Irradiation Test	08/06/18	03/11/19	10/04/18	05/07/19	-148	-148	0.0	0.0	$8,262.81	$8,487.20	($224.39)
6.04.01.02.03	FEE420070T	Travel for Pre-Prototype 2 ADC Irradiation Test	08/06/18	03/11/19	10/04/18	05/07/19	-148	-148	0.0	0.0	$2,215.76	$2,272.39	($56.63)
6.04.01.02.04 LAr FE ADC Pre-Prototype 3 Chip Cycle			10/05/18	11/28/18	04/05/19	07/11/19	-36	-67	1250.0	1830.0	$49,256.21	$75,014.24	($25,758.03)
No AP2 Task Group - Temp			10/05/18	11/28/18	04/05/19	07/11/19	-36	-67	1250.0	1830.0	$49,256.21	$75,014.24	($25,758.03)
6.04.01.02.04	FEE4310254	Pre-Prototype 3 ADC Schematics Design	10/05/18	11/28/18	12/07/18	01/30/19	-36	-36	292.0	438.0	$7,646.87	$15,640.79	($7,993.92)
6.04.01.02.04	FEE4310254M	Material for Pre-Prototype 3 ADC Schematics De	10/05/18	11/28/18	12/05/18	01/30/19	-36	-38	0.0	0.0	$1,591.35	$1,591.35	$0.00
6.04.01.02.04	FEE4310264	Pre- Prototype 3 ADC Physical Layout Design	12/07/18	01/30/19	02/07/19	04/01/19	-36	-36	586.0	525.0	$23,944.17	$20,604.25	$3,339.93
6.04.01.02.04	FEE4310274	Pre-Prototype 3 ADC Post Layout Simulation	02/07/19	04/01/19	04/05/19	05/28/19	-36	-36	372.0	489.0	$12,598.40	$19,004.49	($6,406.09)
6.04.01.02.04	FEE4310274T	Travel for Prototype 3 ADC Physical Layout Desi	02/07/19	04/01/19	04/04/19	05/24/19	-36	-36	0.0	0.0	$3,475.42	$3,475.42	$0.00
6.04.01.02.04	FEE4310275	Pre- Prototype 3 ADC Submission		05/28/19		07/11/19			0.0	378.0	$0.00	$14,697.95	($14,697.95)
6.04.01.02.05 LAr FE ADC Pre-Prototype 3 Chip Irradiation Test			02/07/19	07/11/19	10/07/19	02/05/20	-107	-83	2449.0	2311.0	$104,360.51	$98,902.64	$5,457.87
No AP2 Task Group - Temp			02/07/19	07/11/19	10/07/19	02/05/20	-107	-83	2449.0	2311.0	$104,360.51	$98,902.64	$5,457.87
6.04.01.02.05	FEE420090	Pre-Prototype 3 Irradiation Board Schematics D	02/07/19	07/11/19	04/05/19	08/08/19	-107	-87	190.0	152.0	$10,403.05	$8,322.44	$2,080.61



Primary Baseline | Remaining Work | ATLAS Subsystem Critic...
Actual Work | Critical Remaining Work | Baseline Milestone

TASK filters: AAA Working FIter_1, AAA Working FIter_6, BL Delta Comparison, OBLIG to Remove.

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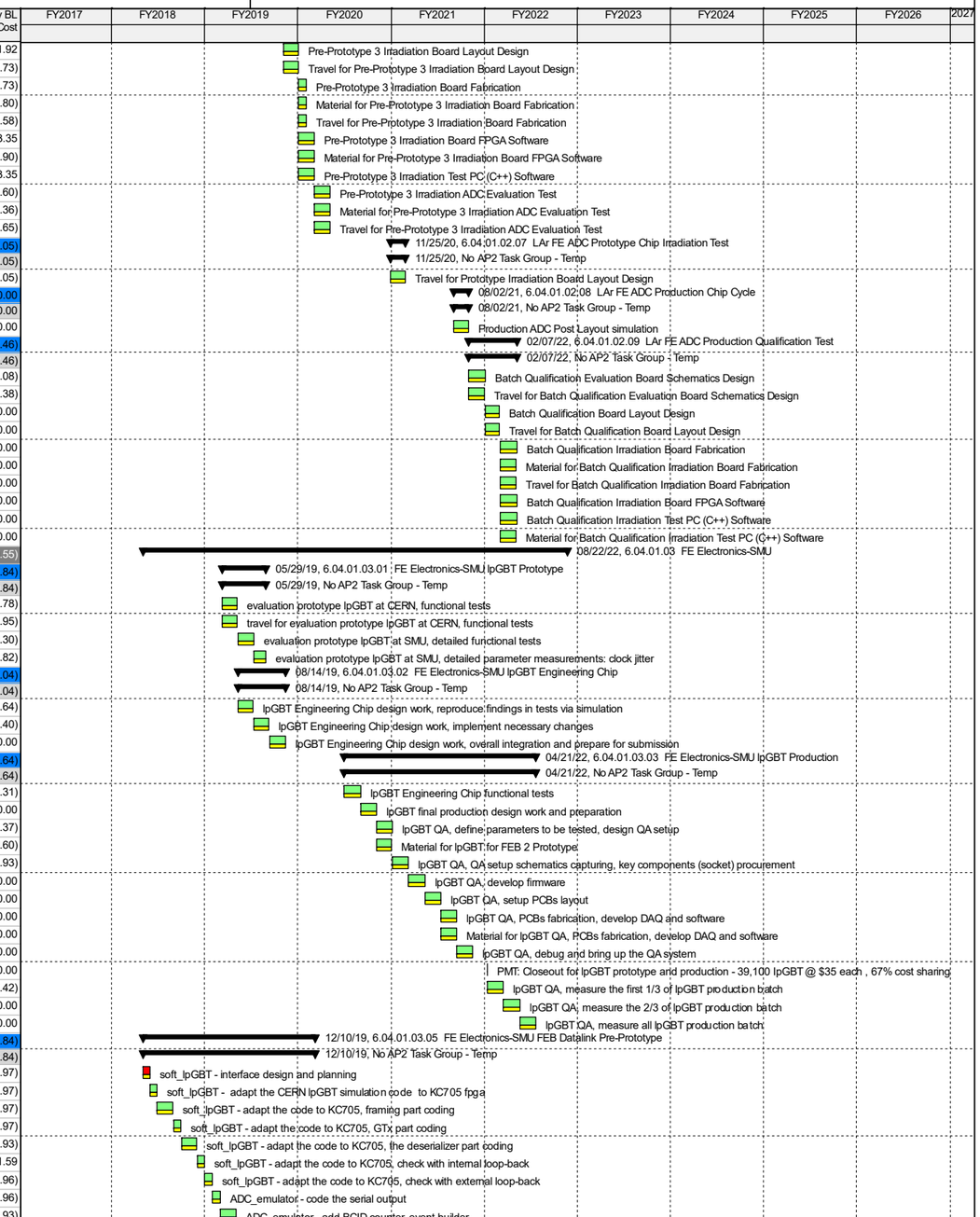
WBS	Activity ID	Activity Name	Prev BL Start	Start	Prev BL Finish	Finish	Var-Prev BL Start Date	Var-Prev BL Finish	Prev BL Hrs	Hours	Prev BL Total Cost	Planned Total Cost	Var - Prev BL Total Cost
6.04.01.02.05	FEE420100	Pre-Prototype 3 Irradiation Board Layout Desigr	04/05/19	08/08/19	06/07/19	10/04/19	-87	-83	499.0	459.0	$18,780.76	$16,638.84	$2,141.92
6.04.01.02.05	FEE420100T	Travel for Pre-Prototype 3 Irradiation Board Lay	04/05/19	08/08/19	06/06/19	10/04/19	-87	-84	0.0	0.0	$868.86	$871.58	($2.73)
6.04.01.02.05	FEE420110	Pre-Prototype 3 Irradiation Board Fabrication	06/07/19	10/04/19	08/07/19	11/04/19	-83	-61	580.0	580.0	$7,463.55	$7,687.28	($223.73)
6.04.01.02.05	FEE420110M	Material for Pre-Prototype 3 Irradiation Board Fa	06/07/19	10/04/19	08/06/19	11/04/19	-83	-62	0.0	0.0	$11,669.90	$12,019.70	($349.80)
6.04.01.02.05	FEE420110T	Travel for Pre-Prototype 3 Irradiation Board Fabi	06/07/19	10/04/19	08/06/19	11/04/19	-83	-62	0.0	0.0	$3,475.42	$3,588.00	($112.58)
6.04.01.02.05	FEE420120	Pre-Prototype 3 Irradiation Board FPGA Softwar	06/07/19	10/04/19	08/07/19	12/05/19	-83	-83	200.0	170.0	$10,950.58	$9,587.24	$1,363.35
6.04.01.02.05	FEE420120M	Material for Pre-Prototype 3 Irradiation Board FF	06/07/19	10/04/19	08/06/19	12/04/19	-83	-83	0.0	0.0	$530.45	$546.35	($15.90)
6.04.01.02.05	FEE420130	Pre-Prototype 3 Irradiation Test PC (C++) Softwa	06/07/19	10/04/19	08/07/19	12/05/19	-83	-83	200.0	170.0	$10,950.58	$9,587.24	$1,363.35
6.04.01.02.05	FEE420150	Pre-Prototype 3 Irradiation ADC Evaluation Test	08/07/19	12/05/19	10/07/19	02/05/20	-83	-83	780.0	780.0	$18,476.77	$18,966.38	($489.60)
6.04.01.02.05	FEE420150M	Material for Pre-Prototype 3 Irradiation ADC Eval	08/07/19	12/05/19	10/04/19	02/05/20	-83	-84	0.0	0.0	$8,511.24	$8,741.60	($230.36)
6.04.01.02.05	FEE420150T	Travel for Pre-Prototype 3 Irradiation ADC Evalu	08/07/19	12/05/19	10/04/19	02/05/20	-83	-84	0.0	0.0	$2,279.35	$2,346.00	($66.65)
6.04.01.02.07 LAr FE ADC Prototype Chip Irradiation Test			09/28/20	09/28/20	11/24/20	11/25/20	0	-1	0.0	0.0	$921.10	$921.14	($0.05)
No AP2 Task Group - Temp			09/28/20	09/28/20	11/24/20	11/25/20	0	-1	0.0	0.0	$921.10	$921.14	($0.05)
6.04.01.02.07	FEE420180T	Travel for Prototype Irradiation Board Layout De	09/28/20	09/28/20	11/24/20	11/25/20	0	-1	0.0	0.0	$921.10	$921.14	($0.05)
6.04.01.02.08 LAr FE ADC Production Chip Cycle			06/01/21	06/02/21	07/30/21	08/02/21	-1	-1	565.0	565.0	$24,182.51	$24,182.51	$0.00
No AP2 Task Group - Temp			06/01/21	06/02/21	07/30/21	08/02/21	-1	-1	565.0	565.0	$24,182.51	$24,182.51	$0.00
6.04.01.02.08	FEE420248	Production ADC Post Layout simulation	06/01/21	06/02/21	07/30/21	08/02/21	-1	-1	565.0	565.0	$24,182.51	$24,182.51	$0.00
6.04.01.02.09 LAr FE ADC Production Qualification Test			07/30/21	08/02/21	02/04/22	02/07/22	-1	-1	1828.0	1828.0	$93,771.09	$93,783.55	($12.46)
No AP2 Task Group - Temp			07/30/21	08/02/21	02/04/22	02/07/22	-1	-1	1828.0	1828.0	$93,771.09	$93,783.55	($12.46)
6.04.01.02.09	FEE420250	Batch Qualification Evaluation Board Schematic	07/30/21	08/02/21	10/01/21	10/04/21	-1	-1	460.0	460.0	$17,665.11	$17,677.19	($12.08)
6.04.01.02.09	FEE420250T	Travel for Batch Qualification Evaluation Board S	07/30/21	08/02/21	09/30/21	10/01/21	-1	-1	0.0	0.0	$923.00	$923.38	($0.38)
6.04.01.02.09	FEE420260	Batch Qualification Board Layout Design	10/01/21	10/04/21	11/30/21	12/01/21	-1	-1	419.0	419.0	$16,578.81	$16,578.81	$0.00
6.04.01.02.09	FEE420260T	Travel for Batch Qualification Board Layout Desi	10/01/21	10/04/21	11/26/21	11/29/21	-1	-1	0.0	0.0	$949.00	$949.00	$0.00
6.04.01.02.09	FEE420270	Batch Qualification Irradiation Board Fabrication	11/30/21	12/01/21	02/04/22	02/07/22	-1	-1	634.0	634.0	$8,928.47	$8,928.47	$0.00
6.04.01.02.09	FEE420270M	Material for Batch Qualification Irradiation Board	11/30/21	12/01/21	02/02/22	02/03/22	-1	-1	0.0	0.0	$25,504.60	$25,504.60	$0.00
6.04.01.02.09	FEE420270T	Travel for Batch Qualification Irradiation Board F	11/30/21	12/01/21	02/02/22	02/03/22	-1	-1	0.0	0.0	$3,796.00	$3,796.00	$0.00
6.04.01.02.09	FEE420280	Batch Qualification Irradiation Board FPGA Softv	11/30/21	12/01/21	02/04/22	02/07/22	-1	-1	161.0	161.0	$9,632.63	$9,632.63	$0.00
6.04.01.02.09	FEE420290	Batch Qualification Irradiation Test PC (C++) Sof	11/30/21	12/01/21	02/04/22	02/07/22	-1	-1	154.0	154.0	$9,213.82	$9,213.82	$0.00
6.04.01.02.09	FEE420290M	Material for Batch Qualification Irradiation Test P	11/30/21	12/01/21	02/02/22	02/03/22	-1	-1	0.0	0.0	$579.65	$579.65	$0.00
6.04.01.03 FE Electronics-SMU			04/11/18	02/01/18	08/19/22	08/22/22	48	-1	22326.0	23400.0	$2,115,268.79	$2,196,809.34	($81,540.55)
6.04.01.03.01 FE Electronics-SMU lpGBT Prototype			04/11/18	12/10/18	09/27/18	05/29/19	-168	-168	1525.0	1525.0	$84,340.02	$86,869.86	($2,529.84)
No AP2 Task Group - Temp			04/11/18	12/10/18	09/27/18	05/29/19	-168	-168	1525.0	1525.0	$84,340.02	$86,869.86	($2,529.84)
6.04.01.03.01	FEE30110	evaluation prototype lpGBT at CERN, functional	04/11/18	12/10/18	06/08/18	02/07/19	-168	-168	571.0	571.0	$28,559.72	$29,416.50	($856.78)
6.04.01.03.01	FEE30110T	travel for evaluation prototype lpGBT at CERN, f	04/11/18	12/10/18	06/07/18	02/06/19	-168	-168	0.0	0.0	$13,042.89	$13,433.84	($390.95)
6.04.01.03.01	FEE30130	evaluation prototype lpGBT at SMU, detailed fur	06/11/18	02/08/19	08/10/18	04/11/19	-168	-168	598.0	598.0	$27,143.43	$27,957.73	($814.30)
6.04.01.03.01	FEE30140	evaluation prototype lpGBT at SMU, detailed pa	08/13/18	04/12/19	09/27/18	05/29/19	-168	-168	356.0	356.0	$15,593.98	$16,061.80	($467.82)
6.04.01.03.02 FE Electronics-SMU lpGBT Engineering Chip			06/11/18	02/08/19	12/14/18	08/14/19	-168	-168	1048.0	1048.0	$93,495.36	$95,145.40	($1,650.04)
No AP2 Task Group - Temp			06/11/18	02/08/19	12/14/18	08/14/19	-168	-168	1048.0	1048.0	$93,495.36	$95,145.40	($1,650.04)
6.04.01.03.02	FEE30170	lpGBT Engineering Chip design work, reproduce	06/11/18	02/08/19	08/09/18	04/10/19	-168	-168	344.0	344.0	$30,321.30	$31,230.93	($909.64)
6.04.01.03.02	FEE30180	lpGBT Engineering Chip design work, implemen	08/10/18	04/11/19	10/10/18	06/11/19	-168	-168	344.0	344.0	$30,490.53	$31,230.93	($740.40)
6.04.01.03.02	FEE30190	lpGBT Engineering Chip design work, overall int	10/12/18	06/12/19	12/14/18	08/14/19	-168	-168	360.0	360.0	$32,683.54	$32,683.54	$0.00
6.04.01.03.03 FE Electronics-SMU lpGBT Production			04/18/19	04/01/20	02/16/22	04/21/22	-241	-45	5202.0	5202.0	$1,213,304.42	$1,215,198.07	($1,893.64)
No AP2 Task Group - Temp			04/18/19	04/01/20	02/16/22	04/21/22	-241	-45	5202.0	5202.0	$1,213,304.42	$1,215,198.07	($1,893.64)
6.04.01.03.03	FEE30240	lpGBT Engineering Chip functional tests	04/18/19	04/01/20	06/20/19	06/03/20	-241	-241	428.0	428.0	$18,910.46	$19,477.77	($567.31)
6.04.01.03.03	FEE30250	lpGBT final production design work and prepara	04/01/20	06/04/20	06/01/20	08/04/20	-45	-45	344.0	344.0	$32,167.85	$32,167.85	$0.00
6.04.01.03.03	FEE30290	lpGBT QA, define parameters to be tested, desi	06/01/20	08/04/20	07/31/20	10/05/20	-45	-45	585.0	585.0	$31,594.13	$31,657.50	($63.37)
6.04.01.03.03	FEE30290M	Material for lpGBT for FEB 2 Prototype	06/01/20	08/04/20	07/30/20	10/02/20	-45	-45	0.0	0.0	$18,357.36	$18,381.96	($24.60)
6.04.01.03.03	FEE30300	lpGBT QA, QA setup schematics capturing, key	07/31/20	10/05/20	10/05/20	12/09/20	-45	-45	612.0	612.0	$28,457.34	$29,257.27	($799.93)
6.04.01.03.03	FEE30310	lpGBT QA, develop firmware	10/05/20	12/09/20	12/07/20	02/10/21	-45	-45	585.0	585.0	$25,958.74	$25,958.74	$0.00
6.04.01.03.03	FEE30320	lpGBT QA, setup PCBs layout	12/07/20	02/10/21	02/08/21	04/13/21	-45	-45	585.0	585.0	$23,962.87	$23,962.87	$0.00
6.04.01.03.03	FEE30330	lpGBT QA, PCBs fabrication, develop DAQ and	02/08/21	04/13/21	04/12/21	06/15/21	-45	-45	598.0	598.0	$27,375.66	$27,375.66	$0.00
6.04.01.03.03	FEE30330M	Material for lpGBT QA, PCBs fabrication, develo	02/08/21	04/13/21	04/09/21	06/14/21	-45	-45	0.0	0.0	$25,323.75	$25,323.75	$0.00
6.04.01.03.03	FEE30340	lpGBT QA, debug and bring up the QA system	04/12/21	06/15/21	06/11/21	08/16/21	-45	-45	585.0	585.0	$26,760.35	$26,760.35	$0.00
6.04.01.03.03	FEE30345M40	PMT: Closeout for lpGBT prototype and producti	08/10/21	10/14/21	08/11/21	10/15/21	-45	-45	0.0	0.0	$916,895.00	$916,895.00	$0.00
6.04.01.03.03	FEE30350	lpGBT QA, measure the first 1/3 of lpGBT produ	08/11/21	10/15/21	10/12/21	12/15/21	-45	-45	401.0	401.0	$17,307.62	$17,746.05	($438.42)
6.04.01.03.03	FEE30360	lpGBT QA, measure the 2/3 of lpGBT productio	10/12/21	12/15/21	12/14/21	02/17/22	-45	-45	299.0	299.0	$12,627.88	$12,627.88	$0.00
6.04.01.03.03	FEE30370	lpGBT QA, measure all lpGBT production batch	12/14/21	02/17/22	02/16/22	04/21/22	-45	-45	180.0	180.0	$7,605.43	$7,605.43	$0.00
6.04.01.03.05 FE Electronics-SMU FEB Datalink Pre-Prototype			06/11/18	02/01/18	08/19/22	12/10/19	90	682	4555.0	4495.0	$214,789.43	$223,945.26	($9,155.84)
No AP2 Task Group - Temp			06/11/18	02/01/18	08/19/22	12/10/19	90	682	4555.0	4495.0	$214,789.43	$223,945.26	($9,155.84)
6.04.01.03.05	FEE30600	soft_lpGBT - interface design and planning		02/01/18*		03/01/18			0.0	40.0	$0.00	$3,399.97	($3,399.97)
6.04.01.03.05	FEE30602	soft_lpGBT - adapt the CERN lpGBT simulation		03/02/18		03/29/18			0.0	40.0	$0.00	$3,399.97	($3,399.97)
6.04.01.03.05	FEE30604	soft_lpGBT - adapt the code to KC705, framing		03/30/18		05/31/18			0.0	40.0	$0.00	$3,399.97	($3,399.97)
6.04.01.03.05	FEE30606	soft_lpGBT - adapt the code to KC705, GTx par		06/01/18		06/29/18			0.0	40.0	$0.00	$3,399.97	($3,399.97)
6.04.01.03.05	FEE30608	soft_lpGBT - adapt the code to KC705, the des		07/02/18		08/31/18			0.0	80.0	$0.00	$6,799.93	($6,799.93)
6.04.01.03.05	FEE30610	soft_lpGBT - adapt the code to KC705, check w	06/20/22	09/04/18	08/19/22	10/01/18	959	983	240.0	40.0	$10,116.65	$3,405.07	$6,711.59
6.04.01.03.05	FEE30612	soft_lpGBT - adapt the code to KC705, check w		10/02/18		10/30/18			0.0	40.0	$0.00	$3,501.96	($3,501.96)
6.04.01.03.05	FEE30614	ADC_emulator - code the serial output		10/31/18		11/30/18			0.0	40.0	$0.00	$3,501.96	($3,501.96)
6.04.01.03.05	FEE30616	ADC_emulator - add BCID counter, event builde		12/03/18		01/31/19			0.0	80.0	$0.00	$7,003.93	($7,003.93)



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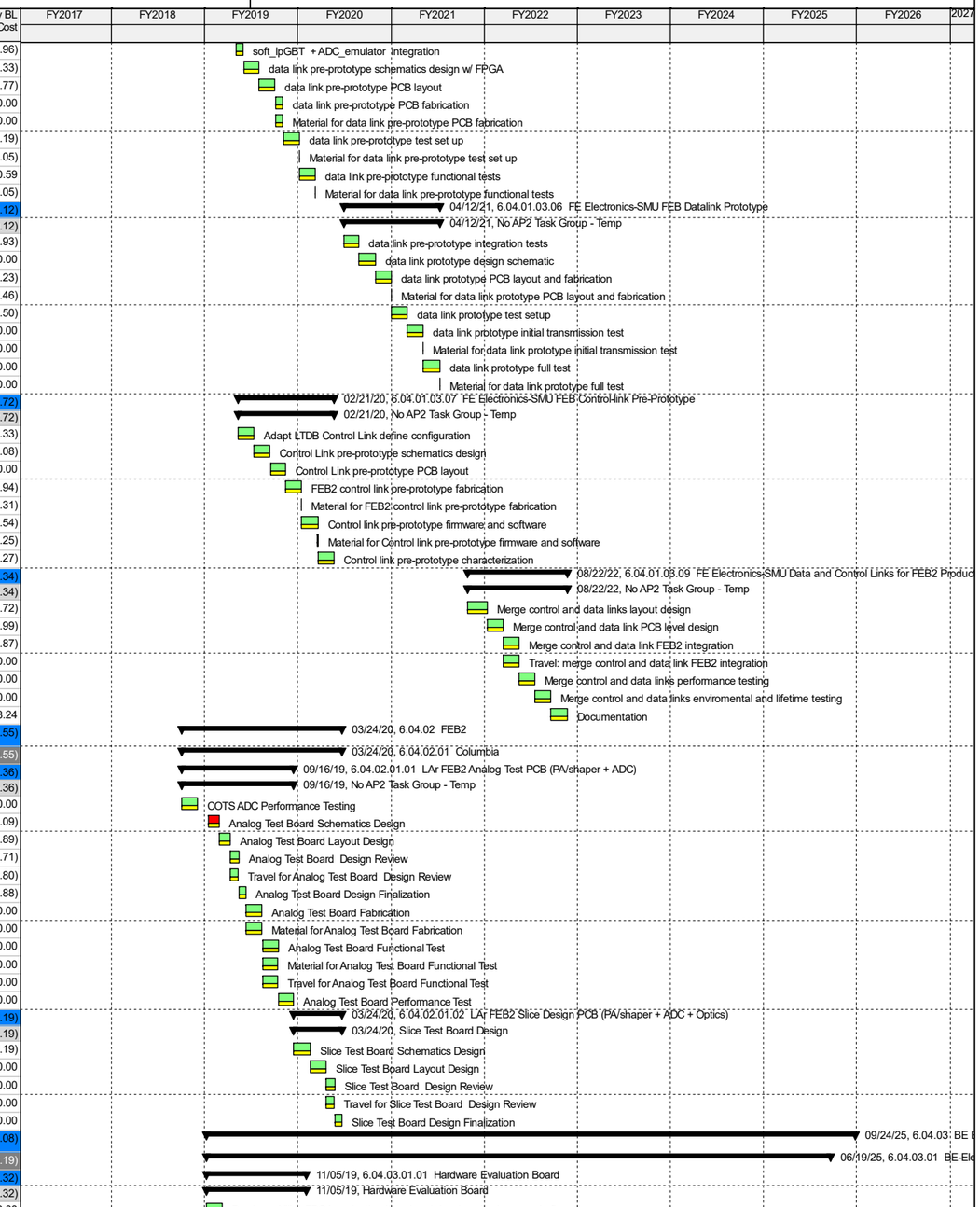
WBS	Activity ID	Activity Name	Prev BL Start	Start	Prev BL Finish	Finish	Var-Prev BL Start Date	Var-Prev BL Finish	Prev BL Hrs	Hours	Prev BL Total Cost	Planned Total Cost	Var - Prev BL Total Cost
6.04.01.03.05	FEE30618	soft_lpGBT + ADC_emulator integration		02/01/19		03/01/19			0.0	40.0	$0.00	$3,501.96	($3,501.96)
6.04.01.03.05	FEE30620	data link pre-prototype schematics design w/ FP	06/11/18	03/04/19	08/10/18	05/02/19	-183	-183	526.0	526.0	$22,311.33	$22,980.66	($669.33)
6.04.01.03.05	FEE30630	data link pre-prototype PCB layout	08/13/18	05/03/19	10/12/18	07/03/19	-183	-183	825.0	825.0	$30,576.28	$31,297.05	($720.77)
6.04.01.03.05	FEE30640	data link pre-prototype PCB fabrication	10/15/18	07/05/19	11/12/18	08/02/19	-183	-183	402.0	402.0	$15,221.75	$15,221.75	$0.00
6.04.01.03.05	FEE30640M	Material for data link pre-prototype PCB fabricati	10/15/18	07/05/19	11/12/18	08/02/19	-183	-183	0.0	0.0	$25,263.63	$25,263.63	$0.00
6.04.01.03.05	FEE30660	data link pre-prototype test set up	11/13/18	08/05/19	01/17/19	10/07/19	-183	-183	1295.0	1295.0	$52,855.93	$53,032.12	($176.19)
6.04.01.03.05	FEE30660M	Material for data link pre-prototype test set up	01/17/19	10/07/19	01/17/19	10/07/19	-183	-183	0.0	0.0	$3,368.48	$3,469.54	($101.05)
6.04.01.03.05	FEE30670	data link pre-prototype functional tests	01/18/19	10/08/19	03/21/19	12/10/19	-183	-183	1267.0	967.0	$51,706.89	$27,896.30	$23,810.59
6.04.01.03.05	FEE30670M	Material for data link pre-prototype functional tes	03/21/19	12/10/19	03/21/19	12/10/19	-183	-183	0.0	0.0	$3,368.48	$3,469.54	($101.05)
6.04.01.03.06 FE Electronics-SMU FEB Datalink Prototype			03/22/19	04/01/20	02/11/21	04/12/21	-260	-41	5943.0	6243.0	$291,778.81	$320,638.93	($28,860.12)
No AP2 Task Group - Temp			03/22/19	04/01/20	02/11/21	04/12/21	-260	-41	5943.0	6243.0	$291,778.81	$320,638.93	($28,860.12)
6.04.01.03.06	FEE30695	data link pre-prototype integration tests	03/22/19	04/01/20	05/17/19	05/28/20	-260	-260	981.0	1281.0	$38,837.30	$65,364.23	($26,526.93)
6.04.01.03.06	FEE30700	data link prototype design schematic	04/01/20	05/29/20	06/03/20	07/31/20	-41	-41	612.0	612.0	$30,432.98	$30,432.98	$0.00
6.04.01.03.06	FEE30710	data link prototype PCB layout and fabrication	06/04/20	08/03/20	08/04/20	10/01/20	-41	-41	585.0	585.0	$23,264.93	$23,281.16	($16.23)
6.04.01.03.06	FEE30710M	Material for data link prototype PCB layout and f	08/04/20	10/01/20	08/04/20	10/01/20	-41	-41	0.0	0.0	$20,817.22	$21,441.67	($624.46)
6.04.01.03.06	FEE30720	data link prototype test setup	08/05/20	10/02/20	10/05/20	12/03/20	-41	-41	1345.0	1345.0	$60,593.32	$62,285.82	($1,692.50)
6.04.01.03.06	FEE30730	data link prototype initial transmission test	10/05/20	12/03/20	12/08/20	02/05/21	-41	-41	1318.0	1318.0	$60,532.63	$60,532.63	$0.00
6.04.01.03.06	FEE30730M	Material for data link prototype initial transmissio	12/07/20	02/04/21	12/08/20	02/05/21	-41	-41	0.0	0.0	$3,573.61	$3,573.61	$0.00
6.04.01.03.06	FEE30740	data link prototype full test	12/08/20	02/05/21	02/11/21	04/12/21	-41	-41	1102.0	1102.0	$50,153.22	$50,153.22	$0.00
6.04.01.03.06	FEE30740M	Material for data link prototype full test	02/10/21	04/09/21	02/11/21	04/12/21	-41	-41	0.0	0.0	$3,573.61	$3,573.61	$0.00
6.04.01.03.07 FE Electronics-SMU FEB Control-link Pre-Prototype			06/11/18	02/08/19	06/21/19	02/21/20	-168	-168	737.0	737.0	$53,932.21	$55,274.93	($1,342.72)
No AP2 Task Group - Temp			06/11/18	02/08/19	06/21/19	02/21/20	-168	-168	737.0	737.0	$53,932.21	$55,274.93	($1,342.72)
6.04.01.03.07	FEE30760	Adapt LTDB Control Link define configuration	06/11/18	02/08/19	08/10/18	04/11/19	-168	-168	123.0	123.0	$5,577.83	$5,745.17	($167.33)
6.04.01.03.07	FEE30770	Control Link pre-prototype schematics design	08/13/18	04/12/19	10/16/18	06/14/19	-168	-168	126.0	126.0	$5,158.57	$5,274.64	($116.08)
6.04.01.03.07	FEE30780	Control Link pre-prototype PCB layout	10/17/18	06/17/19	12/14/18	08/14/19	-168	-168	118.0	118.0	$4,399.27	$4,399.27	$0.00
6.04.01.03.07	FEE30790	FEB2 control link pre-prototype fabrication	12/17/18	08/15/19	02/15/19	10/16/19	-168	-168	121.0	121.0	$4,683.72	$4,719.67	($35.94)
6.04.01.03.07	FEE30790M	Material for FEB2 control link pre-prototype fabri	02/15/19	10/16/19	02/15/19	10/16/19	-168	-168	0.0	0.0	$20,210.90	$20,817.22	($606.31)
6.04.01.03.07	FEE30800	Control link pre-prototype firmware and software	02/19/19	10/17/19	04/22/19	12/19/19	-168	-168	126.0	126.0	$5,351.21	$5,511.74	($160.54)
6.04.01.03.07	FEE30800M	Material for Control link pre-prototype firmware a	04/19/19	12/18/19	04/22/19	12/19/19	-168	-168	0.0	0.0	$3,341.75	$3,442.00	($100.25)
6.04.01.03.07	FEE30810	Control link pre-prototype characterization	04/22/19	12/19/19	06/21/19	02/21/20	-168	-168	123.0	123.0	$5,208.95	$5,365.22	($156.27)
6.04.01.03.09 FE Electronics-SMU Data and Control Links for FEB2 Production			07/28/21	07/28/21	06/17/22	08/22/22	0	-45	3316.0	4150.0	$163,628.54	$199,736.88	($36,108.34)
No AP2 Task Group - Temp			07/28/21	07/28/21	06/17/22	08/22/22	0	-45	3316.0	4150.0	$163,628.54	$199,736.88	($36,108.34)
6.04.01.03.09	FEE30905	Merge control and data links layout design	08/11/21	07/28/21	10/12/21	10/13/21	9	-1	468.0	857.0	$20,860.02	$48,062.73	($27,202.72)
6.04.01.03.09	FEE30910	Merge control and data link PCB level design	07/28/21	10/13/21	10/22/21	12/15/21	-53	-37	884.0	997.0	$36,487.82	$39,055.81	($2,567.99)
6.04.01.03.09	FEE30920	Merge control and data link FEB2 integration	10/22/21	12/15/21	01/19/22	02/16/22	-37	-20	898.0	1342.0	$47,353.31	$77,249.18	($29,895.87)
6.04.01.03.09	FEE30920T	Travel: merge control and data link FEB2 integra	10/22/21	12/15/21	01/14/22	02/16/22	-37	-23	0.0	0.0	$5,521.45	$5,521.45	$0.00
6.04.01.03.09	FEE30930	Merge control and data links performance testin	02/16/22	02/16/22	04/15/22	04/19/22	-1	-2	228.0	228.0	$9,614.41	$9,614.41	$0.00
6.04.01.03.09	FEE30935	Merge control and data links enviromental and li	04/18/22	04/19/22	06/17/22	06/20/22	-2	-1	240.0	240.0	$10,116.65	$10,116.65	$0.00
6.04.01.03.09	FEE30940	Documentation	01/19/22	06/20/22	03/23/22	08/22/22	-106	-106	598.0	486.0	$33,674.89	$10,116.65	$23,558.24
6.04.02 FEB2			03/30/18	07/02/18	02/06/20	03/24/20	-65	-32	6273.0	6873.0	$565,476.26	$572,645.82	($7,169.55)
6.04.02.01 Columbia			03/30/18	07/02/18	02/06/20	03/24/20	-65	-32	6273.0	6873.0	$565,476.26	$572,645.82	($7,169.55)
6.04.02.01.01 LAr FEB2 Analog Test PCB (PA/shaper + ADC)			03/30/18	07/02/18	07/31/19	09/16/19	-65	-32	4531.0	5131.0	$361,056.84	$366,802.21	($5,745.36)
No AP2 Task Group - Temp			03/30/18	07/02/18	07/31/19	09/16/19	-65	-32	4531.0	5131.0	$361,056.84	$366,802.21	($5,745.36)
6.04.02.01.01	FEB21010	COTS ADC Performance Testing		07/02/18		09/05/18			0.0	600.0	$0.00	$0.00	$0.00
6.04.02.01.01	FEB21015	Analog Test Board Schematics Design	03/30/18	10/16/18*	06/01/18	11/27/18	-137	-123	595.0	595.0	$64,869.88	$66,815.97	($1,946.09)
6.04.02.01.01	FEB21020	Analog Test Board Layout Design	06/01/18	11/28/18	08/02/18	01/10/19	-123	-110	546.0	546.0	$61,696.36	$63,547.25	($1,850.89)
6.04.02.01.01	FEB21030	Analog Test Board Design Review	08/02/18	01/11/19	09/05/18	02/12/19	-110	-110	329.0	329.0	$36,023.70	$37,104.41	($1,080.71)
6.04.02.01.01	FEB21030T	Travel for Analog Test Board Design Review	08/02/18	01/11/19	09/04/18	02/11/19	-110	-110	0.0	0.0	$2,595.60	$2,673.40	($77.80)
6.04.02.01.01	FEB21040	Analog Test Board Design Finalization	09/05/18	02/13/19	10/03/18	03/13/19	-110	-110	283.0	283.0	$30,882.16	$31,672.04	($789.88)
6.04.02.01.01	FEB21050	Analog Test Board Fabrication	01/28/19	03/14/19	04/01/19	05/15/19	-32	-32	535.0	535.0	$33,106.48	$33,106.48	$0.00
6.04.02.01.01	FEB21050M	Material for Analog Test Board Fabrication	01/28/19	03/14/19	03/28/19	05/13/19	-32	-32	0.0	0.0	$15,913.50	$15,913.50	$0.00
6.04.02.01.01	FEB21060	Analog Test Board Functional Test	04/02/19	05/16/19	06/03/19	07/18/19	-32	-32	949.0	949.0	$57,046.92	$57,046.92	$0.00
6.04.02.01.01	FEB21060M	Material for Analog Test Board Functional Test	04/02/19	05/16/19	05/30/19	07/16/19	-32	-32	0.0	0.0	$5,304.50	$5,304.50	$0.00
6.04.02.01.01	FEB21060T	Travel for Analog Test Board Functional Test	04/02/19	05/16/19	05/30/19	07/16/19	-32	-32	0.0	0.0	$2,673.40	$2,673.40	$0.00
6.04.02.01.01	FEB21070	Analog Test Board Performance Test	06/03/19	07/18/19	07/31/19	09/16/19	-32	-32	1294.0	1294.0	$50,944.34	$50,944.34	$0.00
6.04.02.01.02 LAr FEB2 Slice Design PCB (PA/shaper + ADC + Optics)			07/31/19	09/16/19	02/06/20	03/24/20	-32	-32	1742.0	1742.0	$204,419.42	$205,843.61	($1,424.19)
Slice Test Board Design			07/31/19	09/16/19	02/06/20	03/24/20	-32	-32	1742.0	1742.0	$204,419.42	$205,843.61	($1,424.19)
6.04.02.01.02	FEB21090	Slice Test Board Schematics Design	07/31/19	09/16/19	10/03/19	11/19/19	-32	-32	595.0	595.0	$66,943.93	$68,368.12	($1,424.19)
6.04.02.01.02	FEB21100	Slice Test Board Layout Design	10/03/19	11/19/19	12/05/19	01/22/20	-32	-32	546.0	546.0	$65,452.04	$65,452.04	$0.00
6.04.02.01.02	FEB21110	Slice Test Board Design Review	12/05/19	01/22/20	01/08/20	02/24/20	-32	-32	322.0	322.0	$37,032.83	$37,032.83	$0.00
6.04.02.01.02	FEB21110T	Travel for Slice Test Board Design Review	12/05/19	01/22/20	01/07/20	02/21/20	-32	-32	0.0	0.0	$2,753.60	$2,753.60	$0.00
6.04.02.01.02	FEB21120	Slice Test Board Design Finalization	01/08/20	02/24/20	02/06/20	03/24/20	-32	-32	279.0	279.0	$32,237.02	$32,237.02	$0.00
6.04.03 BE Electronics			12/12/18	10/08/18	05/21/25	09/24/25	45	-87	29583.2	29885.2	$4,329,150.41	$4,427,481.49	($98,331.08)
6.04.03.01 BE-Electronics-SB			12/12/18	10/08/18	02/14/25	06/19/25	45	-87	22044.2	22296.2	$3,959,938.46	$4,045,204.64	($85,266.19)
6.04.03.01.01 Hardware Evaluation Board			12/12/18	10/08/18	07/31/19	11/05/19	45	-67	1408.0	1576.0	$103,600.40	$134,175.72	($30,575.32)
Hardware Evaluation Board			12/12/18	10/08/18	07/31/19	11/05/19	45	-67	1408.0	1576.0	$103,600.40	$134,175.72	($30,575.32)
6.04.03.01.01	BEE440085	Purchase Xilinx FPGA evaluation board and dev		10/08/18		12/11/18			0.0	10.0	$0.00	$0.00	$0.00



Primary Baseline | Remaining Work | ATLAS Subsystem Critic...
Actual Work | Critical Remaining Work | Baseline Milestone

TASK filters: AAA Working FIter_1, AAA Working FIter_6, BL Delta Comparison, OBLIG to Remove.

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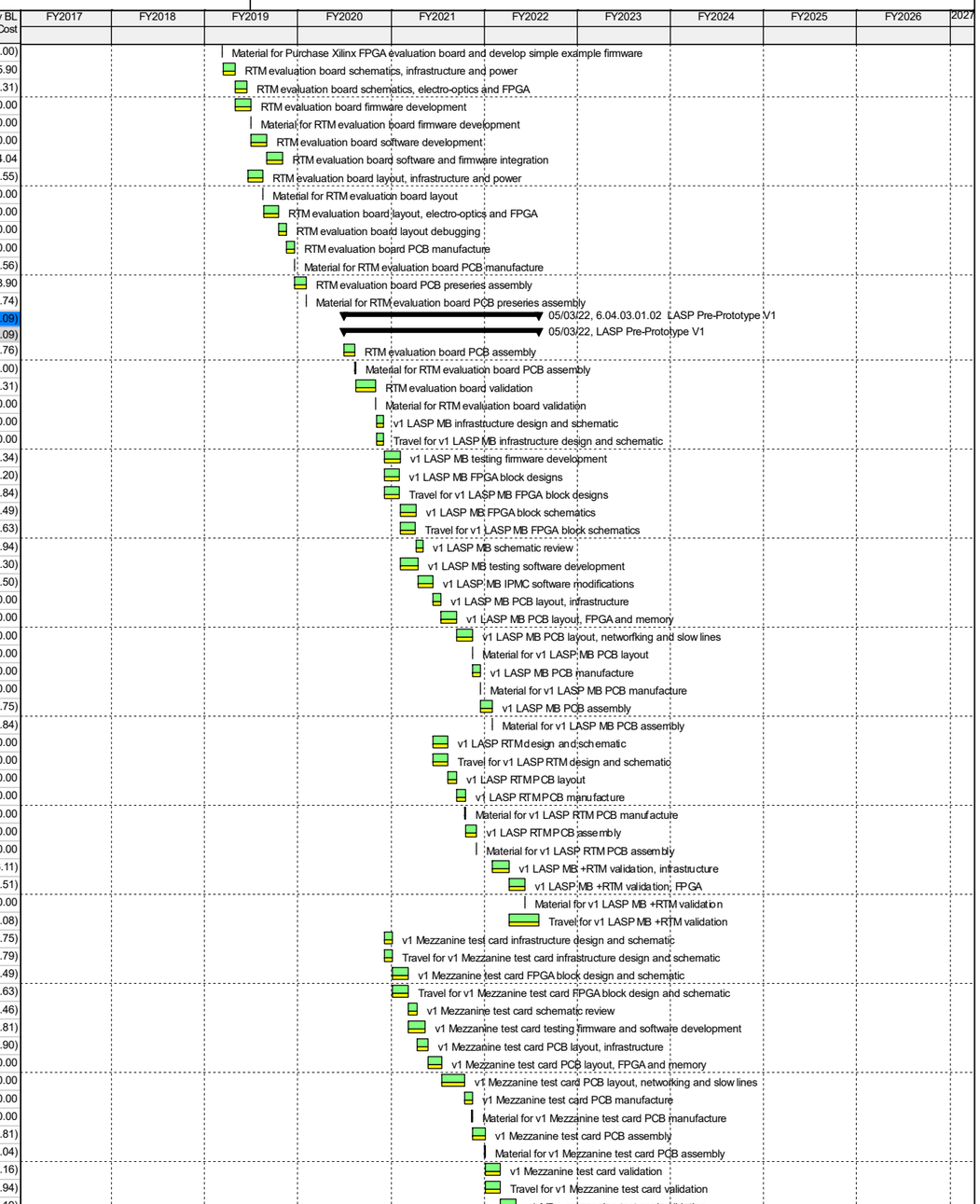
WBS	Activity ID	Activity Name	Prev BL Start	Start	Prev BL Finish	Finish	Var-Prev BL Start Date	Var-Prev BL Finish	Prev BL Hrs	Hours	Prev BL Total Cost	Planned Total Cost	Var - Prev BL Total Cost
6.04.03.01.01	BEE440085M	Material for Purchase Xilinx FPGA evaluation bo		12/11/18		12/11/18			0.0	0.0	$0.00	$10,000.00	($10,000.00)
6.04.03.01.01	BEE440090	RTM evaluation board schematics, infrastructure	12/12/18	12/12/18	02/13/19	01/29/19	0	11	209.0	105.0	$12,844.21	$6,468.31	$6,375.90
6.04.03.01.01	BEE440095	RTM evaluation board schematics, electro-optics		01/30/19		03/18/19			0.0	0.0	$0.00	$6,468.31	($6,468.31)
6.04.03.01.01	BEE440100	RTM evaluation board firmware development	12/12/18	01/30/19	02/12/19	04/01/19	-33	-33	203.0	203.0	$12,474.59	$12,474.59	$0.00
6.04.03.01.01	BEE440100M	Material for RTM evaluation board firmware deve	02/12/19	04/01/19	02/12/19	04/01/19	-33	-33	0.0	0.0	$4,402.73	$4,402.73	$0.00
6.04.03.01.01	BEE440110	RTM evaluation board software development	02/13/19	04/02/19	04/15/19	05/31/19	-33	-33	203.0	203.0	$12,474.59	$12,474.59	$0.00
6.04.03.01.01	BEE440120	RTM evaluation board software and firmware int	04/15/19	05/31/19	06/14/19	08/01/19	-33	-33	203.0	222.0	$12,474.59	$11,550.55	$924.04
6.04.03.01.01	BEE440125	RTM evaluation board layout, infrastructure and		03/19/19		05/16/19			0.0	222.0	$0.00	$11,550.55	($11,550.55)
6.04.03.01.01	BEE440125M	Material for RTM evaluation board layout	04/12/19	05/17/19	04/12/19	05/17/19	-25	-25	0.0	0.0	$4,402.73	$4,402.73	$0.00
6.04.03.01.01	BEE440130	RTM evaluation board layout, electro-optics and	02/14/19	05/20/19	04/12/19	07/18/19	-66	-67	194.0	194.0	$11,920.17	$11,920.17	$0.00
6.04.03.01.01	BEE440140	RTM evaluation board layout debugging	04/15/19	07/19/19	05/14/19	08/19/19	-67	-67	104.0	104.0	$6,375.90	$6,375.90	$0.00
6.04.03.01.01	BEE440150	RTM evaluation board PCB manufacture	05/15/19	08/20/19	06/17/19	09/20/19	-67	-67	124.0	124.0	$7,505.76	$7,505.76	$0.00
6.04.03.01.01	BEE440150M	Material for RTM evaluation board PCB manufac	06/14/19	09/19/19	06/17/19	09/20/19	-67	-67	0.0	0.0	$4,092.44	$4,615.00	($522.56)
6.04.03.01.01	BEE440160	RTM evaluation board PCB preseries assembly	06/17/19	09/20/19	07/31/19	11/05/19	-67	-67	168.0	84.0	$10,203.41	$5,224.52	$4,978.90
6.04.03.01.01	BEE440160M	Material for RTM evaluation board PCB preserie	07/30/19	11/04/19	07/31/19	11/05/19	-67	-67	0.0	0.0	$4,429.26	$18,742.00	($14,312.74)
6.04.03.01.02 LASP Pre-Prototype V1				07/31/19	04/01/20	12/29/21	05/03/22	-168	-87	7152.4	7236.4	$715,688.40	$757,752.49	($42,064.09)
LASP Pre-Prototype V1				07/31/19	04/01/20	12/29/21	05/03/22	-168	-87	7152.4	7236.4	$715,688.40	$757,752.49	($42,064.09)
6.04.03.01.02	BEE440168	RTM evaluation board PCB assembly		04/01/20		05/13/20			0.0	84.0	$0.00	$5,254.76	($5,254.76)
6.04.03.01.02	BEE440168M	Material for RTM evaluation board PCB assembl		05/14/20		05/14/20			0.0	0.0	$0.00	$28,115.00	($28,115.00)
6.04.03.01.02	BEE440170	RTM evaluation board validation	07/31/19	05/15/20	10/18/19	08/03/20	-200	-200	233.0	233.0	$16,098.22	$16,465.53	($367.31)
6.04.03.01.02	BEE440170M	Material for RTM evaluation board validation	10/17/19	08/03/20	10/18/19	08/03/20	-200	-200	0.0	0.0	$7,891.30	$7,891.30	$0.00
6.04.03.01.02	BEE440180	v1 LASP MB infrastructure design and schemati	04/01/20	08/04/20	05/01/20	09/03/20	-87	-87	139.0	139.0	$10,013.51	$10,013.51	$0.00
6.04.03.01.02	BEE440180T	Travel for v1 LASP MB infrastructure design and	04/01/20	08/04/20	05/01/20	09/03/20	-87	-87	0.0	0.0	$1,509.64	$1,509.64	$0.00
6.04.03.01.02	BEE440185	v1 LASP MB testing firmware development	05/04/20	09/04/20	07/06/20	11/06/20	-87	-87	102.0	102.0	$5,900.94	$6,005.28	($104.34)
6.04.03.01.02	BEE440190	v1 LASP MB FPGA block designs	05/04/20	09/04/20	07/01/20	11/04/20	-87	-87	118.0	118.0	$5,615.41	$5,711.62	($96.20)
6.04.03.01.02	BEE440190T	Travel for v1 LASP MB FPGA block designs	05/04/20	09/04/20	06/30/20	11/03/20	-87	-87	0.0	0.0	$1,509.64	$1,537.48	($27.84)
6.04.03.01.02	BEE440200	v1 LASP MB FPGA block schematics	07/02/20	11/05/20	08/31/20	01/06/21	-87	-87	229.0	229.0	$17,920.15	$18,457.64	($537.49)
6.04.03.01.02	BEE440200T	Travel for v1 LASP MB FPGA block schematics	07/02/20	11/05/20	08/28/20	01/05/21	-87	-87	0.0	0.0	$1,509.64	$1,559.27	($49.63)
6.04.03.01.02	BEE440210	v1 LASP MB schematic review	08/31/20	01/06/21	10/01/20	02/05/21	-87	-87	31.0	31.0	$2,953.99	$3,038.93	($84.94)
6.04.03.01.02	BEE440230	v1 LASP MB testing software development	07/06/20	11/06/20	09/08/20	01/13/21	-87	-87	91.0	91.0	$6,547.29	$6,743.60	($196.30)
6.04.03.01.02	BEE440240	v1 LASP MB IPMC software modifications	09/08/20	01/13/21	11/06/20	03/15/21	-87	-87	134.0	134.0	$6,149.16	$6,218.66	($69.50)
6.04.03.01.02	BEE440245	v1 LASP MB PCB layout, infrastructure	11/06/20	03/15/21	12/11/20	04/16/21	-87	-87	368.0	368.0	$26,448.73	$26,448.73	$0.00
6.04.03.01.02	BEE440248	v1 LASP MB PCB layout, FPGA and memory	12/11/20	04/16/21	02/11/21	06/16/21	-87	-87	501.5	501.5	$49,162.05	$49,162.05	$0.00
6.04.03.01.02	BEE440250	v1 LASP MB PCB layout, networfking and slow l	02/11/21	06/16/21	04/14/21	08/17/21	-87	-87	667.0	667.0	$47,330.77	$47,330.77	$0.00
6.04.03.01.02	BEE440250M	Material for v1 LASP MB PCB layout	04/13/21	08/16/21	04/14/21	08/17/21	-87	-87	0.0	0.0	$5,907.75	$5,907.75	$0.00
6.04.03.01.02	BEE440260	v1 LASP MB PCB manufacture	04/14/21	08/17/21	05/14/21	09/17/21	-87	-87	31.0	31.0	$3,038.93	$3,038.93	$0.00
6.04.03.01.02	BEE440260M	Material for v1 LASP MB PCB manufacture	05/13/21	09/16/21	05/14/21	09/17/21	-87	-87	0.0	0.0	$8,081.09	$8,081.09	$0.00
6.04.03.01.02	BEE440270	v1 LASP MB PCB assembly	05/14/21	09/17/21	06/30/21	11/03/21	-87	-87	64.0	64.0	$4,741.86	$4,843.62	($101.75)
6.04.03.01.02	BEE440270M	Material for v1 LASP MB PCB assembly	06/29/21	11/02/21	06/30/21	11/03/21	-87	-87	0.0	0.0	$46,879.33	$48,287.16	($1,407.84)
6.04.03.01.02	BEE440280	v1 LASP RTM design and schematic	11/06/20	03/15/21	01/11/21	05/13/21	-87	-87	315.0	315.0	$18,951.91	$18,951.91	$0.00
6.04.03.01.02	BEE440280T	Travel for v1 LASP RTM design and schematic	11/06/20	03/15/21	01/06/21	05/10/21	-87	-87	0.0	0.0	$1,559.27	$1,559.27	$0.00
6.04.03.01.02	BEE440290	v1 LASP RTM PCB layout	01/11/21	05/13/21	02/10/21	06/15/21	-87	-87	160.0	160.0	$9,674.08	$9,674.08	$0.00
6.04.03.01.02	BEE440300	v1 LASP RTM PCB manufacture	02/10/21	06/15/21	03/16/21	07/19/21	-87	-87	46.0	46.0	$3,380.50	$3,380.50	$0.00
6.04.03.01.02	BEE440300M	Material for v1 LASP RTM PCB manufacture	03/15/21	07/16/21	03/16/21	07/19/21	-87	-87	0.0	0.0	$6,951.88	$6,951.88	$0.00
6.04.03.01.02	BEE440310	v1 LASP RTM PCB assembly	03/16/21	07/19/21	04/29/21	09/01/21	-87	-87	64.0	64.0	$4,741.86	$4,741.86	$0.00
6.04.03.01.02	BEE440310M	Material for v1 LASP RTM PCB assembly	04/28/21	08/31/21	04/29/21	09/01/21	-87	-87	0.0	0.0	$20,312.76	$20,312.76	$0.00
6.04.03.01.02	BEE440315	v1 LASP MB +RTM validation, infrastructure	06/30/21	11/03/21	08/31/21	01/06/22	-87	-87	208.0	208.0	$13,528.14	$13,934.25	($406.11)
6.04.03.01.02	BEE440320	v1 LASP MB +RTM validation, FPGA	08/31/21	01/06/22	11/02/21	03/09/22	-87	-87	243.0	243.0	$13,734.73	$13,934.25	($199.51)
6.04.03.01.02	BEE440320M	Material for v1 LASP MB +RTM validation	11/01/21	03/08/22	11/02/21	03/09/22	-87	-87	0.0	0.0	$43,863.27	$43,863.27	$0.00
6.04.03.01.02	BEE440320T	Travel for v1 LASP MB +RTM validation	08/31/21	01/06/22	12/29/21	05/03/22	-87	-87	0.0	0.0	$6,601.58	$6,651.66	($50.08)
6.04.03.01.02	BEE440330	v1 Mezzanine test card infrastructure design an	05/04/20	09/04/20	06/04/20	10/07/20	-87	-87	125.0	125.0	$9,777.06	$9,840.81	($63.75)
6.04.03.01.02	BEE440330T	Travel for v1 Mezzanine test card infrastructure	05/04/20	09/04/20	06/04/20	10/07/20	-87	-87	0.0	0.0	$1,509.64	$1,520.43	($10.79)
6.04.03.01.02	BEE440340	v1 Mezzanine test card FPGA block design and	06/05/20	10/08/20	08/04/20	12/08/20	-87	-87	274.0	274.0	$17,920.15	$18,457.64	($537.49)
6.04.03.01.02	BEE440340T	Travel for v1 Mezzanine test card FPGA block de	06/05/20	10/08/20	08/03/20	12/07/20	-87	-87	0.0	0.0	$1,509.64	$1,559.27	($49.63)
6.04.03.01.02	BEE440350	v1 Mezzanine test card schematic review	08/05/20	12/09/20	09/03/20	01/11/21	-87	-87	31.0	31.0	$2,950.47	$3,038.93	($88.46)
6.04.03.01.02	BEE440360	v1 Mezzanine test card testing firmware and sof	08/05/20	12/09/20	10/06/20	02/10/21	-87	-87	88.0	88.0	$6,357.33	$6,530.14	($172.81)
6.04.03.01.02	BEE440365	v1 Mezzanine test card PCB layout, infrastructur	09/03/20	01/11/21	10/16/20	02/22/21	-87	-87	465.0	465.0	$30,070.76	$30,630.66	($559.90)
6.04.03.01.02	BEE440368	v1 Mezzanine test card PCB layout, FPGA and r	10/16/20	02/22/21	12/14/20	04/19/21	-87	-87	455.9	455.9	$44,691.88	$44,691.88	$0.00
6.04.03.01.02	BEE440370	v1 Mezzanine test card PCB layout, networking	12/14/20	04/19/21	03/15/21	07/16/21	-87	-87	660.0	660.0	$47,479.87	$47,479.87	$0.00
6.04.03.01.02	BEE440380	v1 Mezzanine test card PCB manufacture	03/15/21	07/16/21	04/13/21	08/16/21	-87	-87	42.0	42.0	$3,149.65	$3,149.65	$0.00
6.04.03.01.02	BEE440380M	Material for v1 Mezzanine test card PCB manufa	04/12/21	08/13/21	04/13/21	08/16/21	-87	-87	0.0	0.0	$6,846.32	$6,846.32	$0.00
6.04.03.01.02	BEE440390	v1 Mezzanine test card PCB assembly	04/13/21	08/16/21	06/01/21	10/04/21	-87	-87	68.0	68.0	$5,053.35	$5,061.16	($7.81)
6.04.03.01.02	BEE440390M	Material for v1 Mezzanine test card PCB assemb	05/28/21	10/01/21	06/01/21	10/04/21	-87	-87	0.0	0.0	$24,143.10	$24,868.14	($725.04)
6.04.03.01.02	BEE440400	v1 Mezzanine test card validation	06/01/21	10/04/21	07/29/21	12/02/21	-87	-87	974.0	974.0	$66,064.29	$68,046.45	($1,982.16)
6.04.03.01.02	BEE440400T	Travel for v1 Mezzanine test card validation	06/01/21	10/04/21	07/28/21	12/01/21	-87	-87	0.0	0.0	$1,559.27	$1,606.22	($46.94)
6.04.03.01.02	BEE440410	v1 MB + mezzanine test card validation	07/29/21	12/02/21	09/30/21	02/04/22	-87	-87	225.0	225.0	$15,096.62	$15,549.81	($453.19)



Primary Baseline | Remaining Work | ATLAS Subsystem Critic...
Actual Work | Critical Remaining Work | Baseline Milestone

TASK filters: AAA Working FIter_1, AAA Working FIter_6, BL Delta Comparison, OBLIG to Remove.

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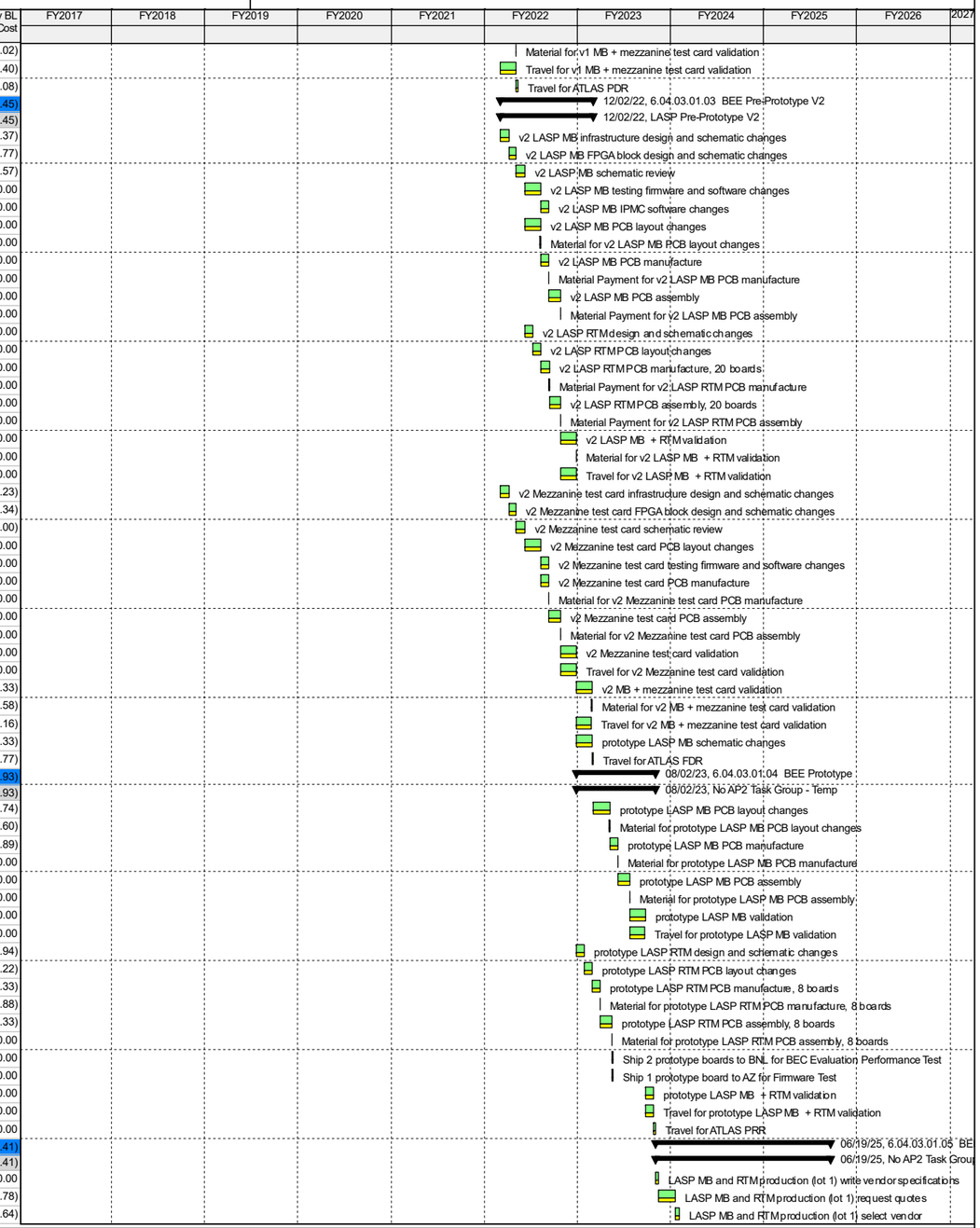
WBS	Activity ID	Activity Name	Prev BL Start	Start	Prev BL Finish	Finish	Var-Prev BL Start Date	Var-Prev BL Finish	Prev BL Hrs	Hours	Prev BL Total Cost	Planned Total Cost	Var - Prev BL Total Cost
6.04.03.01.02	BEE440410M	Material for v1 MB + mezzanine test card validat	09/29/21	02/03/22	09/30/21	02/04/22	-87	-87	0.0	0.0	$3,222.60	$3,319.62	($97.02)
6.04.03.01.02	BEE440410T	Travel for v1 MB + mezzanine test card validatio	07/29/21	12/02/21	09/29/21	02/03/22	-87	-87	0.0	0.0	$6,457.26	$6,651.66	($194.40)
6.04.03.01.02	BEE440415T	Travel for ATLAS PDR	09/30/21	02/04/22	10/06/21	02/10/22	-87	-87	0.0	0.0	$3,319.75	$3,325.83	($6.08)
6.04.03.01.03 BEE Pre-Prototype V2			07/29/21	12/02/21	07/29/22	12/02/22	-87	-87	5584.0	5584.0	$617,508.23	$618,758.67	($1,250.45)
LASP Pre-Prototype V2			07/29/21	12/02/21	07/29/22	12/02/22	-87	-87	5584.0	5584.0	$617,508.23	$618,758.67	($1,250.45)
6.04.03.01.03	BEE440420	v2 LASP MB infrastructure design and schemati	07/29/21	12/02/21	08/31/21	01/06/22	-87	-87	121.0	121.0	$7,940.43	$8,178.80	($238.37)
6.04.03.01.03	BEE440430	v2 LASP MB FPGA block design and schematic	08/31/21	01/06/22	09/30/21	02/04/22	-87	-87	114.0	114.0	$7,254.22	$7,471.99	($217.77)
6.04.03.01.03	BEE440440	v2 LASP MB schematic review	09/30/21	02/04/22	11/02/21	03/09/22	-87	-87	115.0	115.0	$7,772.33	$7,774.91	($2.57)
6.04.03.01.03	BEE440470	v2 LASP MB testing firmware and software char	11/02/21	03/09/22	01/05/22	05/09/22	-87	-87	223.0	223.0	$15,246.89	$15,246.89	$0.00
6.04.03.01.03	BEE440480	v2 LASP MB IPMC software changes	01/05/22	05/09/22	02/04/22	06/09/22	-87	-87	139.0	139.0	$8,169.09	$8,169.09	$0.00
6.04.03.01.03	BEE440490	v2 LASP MB PCB layout changes	11/02/21	03/09/22	01/05/22	05/09/22	-87	-87	952.0	952.0	$70,611.55	$70,611.55	$0.00
6.04.03.01.03	BEE440490M	Material for v2 LASP MB PCB layout changes	01/04/22	05/06/22	01/05/22	05/09/22	-87	-87	0.0	0.0	$6,446.61	$6,446.61	$0.00
6.04.03.01.03	BEE440500	v2 LASP MB PCB manufacture	01/05/22	05/09/22	02/07/22	06/10/22	-87	-87	104.0	104.0	$8,590.90	$8,590.90	$0.00
6.04.03.01.03	BEE440500M	Material Payment for v2 LASP MB PCB manufa	02/04/22	06/09/22	02/07/22	06/10/22	-87	-87	0.0	0.0	$8,323.77	$8,323.77	$0.00
6.04.03.01.03	BEE440510	v2 LASP MB PCB assembly	02/07/22	06/10/22	03/24/22	07/27/22	-87	-87	245.0	245.0	$11,900.23	$11,900.23	$0.00
6.04.03.01.03	BEE440510M	Material Payment for v2 LASP MB PCB assemb	03/23/22	07/26/22	03/24/22	07/27/22	-87	-87	0.0	0.0	$48,287.16	$48,287.16	$0.00
6.04.03.01.03	BEE440520	v2 LASP RTM design and schematic changes	11/02/21	03/09/22	12/06/21	04/11/22	-87	-87	121.0	121.0	$8,178.80	$8,178.80	$0.00
6.04.03.01.03	BEE440530	v2 LASP RTM PCB layout changes	12/06/21	04/11/22	01/06/22	05/10/22	-87	-87	426.0	426.0	$34,501.61	$34,501.61	$0.00
6.04.03.01.03	BEE440540	v2 LASP RTM PCB manufacture, 20 boards	01/06/22	05/10/22	02/08/22	06/13/22	-87	-87	184.0	184.0	$8,590.90	$8,590.90	$0.00
6.04.03.01.03	BEE440540M	Material Payment for v2 LASP RTM PCB manuf	02/07/22	06/10/22	02/08/22	06/13/22	-87	-87	0.0	0.0	$7,161.17	$7,161.17	$0.00
6.04.03.01.03	BEE440550	v2 LASP RTM PCB assembly, 20 boards	02/08/22	06/13/22	03/25/22	07/28/22	-87	-87	205.0	205.0	$11,900.23	$11,900.23	$0.00
6.04.03.01.03	BEE440550M	Material Payment for v2 LASP RTM PCB assem	03/24/22	07/27/22	03/25/22	07/28/22	-87	-87	0.0	0.0	$20,924.30	$20,924.30	$0.00
6.04.03.01.03	BEE440560	v2 LASP MB + RTM validation	03/25/22	07/28/22	05/26/22	09/29/22	-87	-87	1053.0	1053.0	$75,708.28	$75,708.28	$0.00
6.04.03.01.03	BEE440560M	Material for v2 LASP MB + RTM validation	05/25/22	09/28/22	05/26/22	09/29/22	-87	-87	0.0	0.0	$43,863.27	$43,863.27	$0.00
6.04.03.01.03	BEE440560T	Travel for v2 LASP MB + RTM validation	03/25/22	07/28/22	05/26/22	09/29/22	-87	-87	0.0	0.0	$13,334.39	$13,334.39	$0.00
6.04.03.01.03	BEE440570	v2 Mezzanine test card infrastructure design and	07/29/21	12/02/21	08/31/21	01/06/22	-87	-87	31.0	31.0	$3,038.93	$3,130.16	($91.23)
6.04.03.01.03	BEE440580	v2 Mezzanine test card FPGA block design and	08/31/21	01/06/22	09/30/21	02/04/22	-87	-87	29.0	29.0	$2,842.87	$2,928.21	($85.34)
6.04.03.01.03	BEE440590	v2 Mezzanine test card schematic review	09/30/21	02/04/22	11/02/21	03/09/22	-87	-87	30.0	30.0	$3,028.18	$3,029.18	($1.00)
6.04.03.01.03	BEE440600	v2 Mezzanine test card PCB layout changes	11/02/21	03/09/22	01/05/22	05/09/22	-87	-87	989.0	989.0	$72,763.56	$72,763.56	$0.00
6.04.03.01.03	BEE440610	v2 Mezzanine test card testing firmware and sof	01/05/22	05/09/22	02/07/22	06/10/22	-87	-87	31.0	31.0	$3,130.16	$3,130.16	$0.00
6.04.03.01.03	BEE440620	v2 Mezzanine test card PCB manufacture	01/05/22	05/09/22	02/07/22	06/10/22	-87	-87	69.0	69.0	$3,811.02	$3,811.02	$0.00
6.04.03.01.03	BEE440620M	Material for v2 Mezzanine test card PCB manufa	02/04/22	06/09/22	02/07/22	06/10/22	-87	-87	0.0	0.0	$9,854.05	$9,854.05	$0.00
6.04.03.01.03	BEE440630	v2 Mezzanine test card PCB assembly	02/07/22	06/10/22	03/24/22	07/27/22	-87	-87	147.0	147.0	$5,392.43	$5,392.43	$0.00
6.04.03.01.03	BEE440630M	Material for v2 Mezzanine test card PCB assem	03/23/22	07/26/22	03/24/22	07/27/22	-87	-87	0.0	0.0	$59,996.09	$59,996.09	$0.00
6.04.03.01.03	BEE440640	v2 Mezzanine test card validation	03/24/22	07/27/22	05/25/22	09/28/22	-87	-87	60.0	60.0	$6,058.37	$6,058.37	$0.00
6.04.03.01.03	BEE440640T	Travel for v2 Mezzanine test card validation	03/24/22	07/27/22	05/25/22	09/28/22	-87	-87	0.0	0.0	$1,606.22	$1,606.22	$0.00
6.04.03.01.03	BEE440650	v2 MB + mezzanine test card validation	05/25/22	09/28/22	07/25/22	11/28/22	-87	-87	112.0	112.0	$5,654.48	$5,814.80	($160.33)
6.04.03.01.03	BEE440650M	Material for v2 MB + mezzanine test card validat	07/22/22	11/25/22	07/25/22	11/28/22	-87	-87	0.0	0.0	$3,319.62	$3,419.20	($99.58)
6.04.03.01.03	BEE440650T	Travel for v2 MB + mezzanine test card validatio	05/25/22	09/28/22	07/22/22	11/25/22	-87	-87	0.0	0.0	$3,325.83	$3,419.99	($94.16)
6.04.03.01.03	BEE440660	prototype LASP MB schematic changes	05/25/22	09/28/22	07/25/22	11/28/22	-87	-87	84.0	84.0	$5,654.48	$5,814.80	($160.33)
6.04.03.01.03	BEE440670T	Travel for ATLAS FDR	07/25/22	11/28/22	07/29/22	12/02/22	-87	-87	0.0	0.0	$3,325.83	$3,425.60	($99.77)
6.04.03.01.04 BEE Prototype			05/25/22	09/28/22	03/30/23	08/02/23	-87	-87	2504.8	2504.8	$349,968.26	$353,016.19	($3,047.93)
No AP2 Task Group - Temp			05/25/22	09/28/22	03/30/23	08/02/23	-87	-87	2504.8	2504.8	$349,968.26	$353,016.19	($3,047.93)
6.04.03.01.04	BEE440690	prototype LASP MB PCB layout changes	07/29/22	12/02/22	09/30/22	02/06/23	-87	-87	432.0	432.0	$40,591.07	$41,808.80	($1,217.74)
6.04.03.01.04	BEE440690M	Material for prototype LASP MB PCB layout cha	09/29/22	02/03/23	09/30/22	02/06/23	-87	-87	0.0	0.0	$8,153.80	$8,398.40	($244.60)
6.04.03.01.04	BEE440700	prototype LASP MB PCB manufacture	09/30/22	02/06/23	11/02/22	03/09/23	-87	-87	67.0	67.0	$3,801.00	$3,802.89	($1.89)
6.04.03.01.04	BEE440700M	Material for prototype LASP MB PCB manufactu	11/01/22	03/08/23	11/02/22	03/09/23	-87	-87	0.0	0.0	$14,878.49	$14,878.49	$0.00
6.04.03.01.04	BEE440710	prototype LASP MB PCB assembly	11/02/22	03/09/23	12/20/22	04/25/23	-87	-87	350.0	350.0	$5,695.11	$5,695.11	$0.00
6.04.03.01.04	BEE440710M	Material for prototype LASP MB PCB assembly	12/19/22	04/24/23	12/20/22	04/25/23	-87	-87	0.0	0.0	$97,980.68	$97,980.68	$0.00
6.04.03.01.04	BEE440720	prototype LASP MB validation	12/20/22	04/25/23	02/23/23	06/27/23	-87	-87	180.0	180.0	$6,240.12	$6,240.12	$0.00
6.04.03.01.04	BEE440720T	Travel for prototype LASP MB validation	12/20/22	04/25/23	02/17/23	06/22/23	-87	-87	0.0	0.0	$35,564.80	$35,564.80	$0.00
6.04.03.01.04	BEE440730	prototype LASP RTM design and schematic cha	05/25/22	09/28/22	06/24/22	10/28/22	-87	-87	191.5	191.5	$19,336.29	$19,854.23	($517.94)
6.04.03.01.04	BEE440740	prototype LASP RTM PCB layout changes	06/24/22	10/28/22	07/25/22	11/28/22	-87	-87	212.3	212.3	$18,407.34	$18,959.56	($552.22)
6.04.03.01.04	BEE440750	prototype LASP RTM PCB manufacture, 8 boar	07/26/22	11/29/22	08/25/22	12/30/22	-87	-87	69.0	69.0	$3,811.02	$3,925.35	($114.33)
6.04.03.01.04	BEE440750M	Material for prototype LASP RTM PCB manufact	08/24/22	12/29/22	08/25/22	12/30/22	-87	-87	0.0	0.0	$9,123.69	$9,397.57	($273.88)
6.04.03.01.04	BEE440760	prototype LASP RTM PCB assembly, 8 boards	08/25/22	12/30/22	10/10/22	02/14/23	-87	-87	203.0	203.0	$5,183.95	$5,309.28	($125.33)
6.04.03.01.04	BEE440760M	Material for prototype LASP RTM PCB assembly	10/07/22	02/13/23	10/10/22	02/14/23	-87	-87	0.0	0.0	$16,084.53	$16,084.53	$0.00
6.04.03.01.04	BEE440762	Ship 2 prototype boards to BNL for BEC Evalua	10/10/22	02/14/23	10/13/22	02/16/23	-87	-87	3.0	3.0	$55.36	$55.36	$0.00
6.04.03.01.04	BEE440763	Ship 1 prototype board to AZ for Firmware Test	10/10/22	02/14/23	10/13/22	02/16/23	-87	-87	3.0	3.0	$55.36	$55.36	$0.00
6.04.03.01.04	BEE440770	prototype LASP MB + RTM validation	02/23/23	06/27/23	03/24/23	07/27/23	-87	-87	794.0	794.0	$54,728.85	$54,728.85	$0.00
6.04.03.01.04	BEE440770T	Travel for prototype LASP MB + RTM validation	02/23/23	06/27/23	03/24/23	07/27/23	-87	-87	0.0	0.0	$6,851.20	$6,851.20	$0.00
6.04.03.01.04	BEE440780T	Travel for ATLAS PRR	03/24/23	07/27/23	03/30/23	08/02/23	-87	-87	0.0	0.0	$3,425.60	$3,425.60	$0.00
6.04.03.01.05 BEE Production			03/30/23	08/02/23	02/14/25	06/19/25	-87	-87	5395.0	5395.0	$2,173,173.16	$2,181,501.57	($8,328.41)
No AP2 Task Group - Temp			03/30/23	08/02/23	02/14/25	06/19/25	-87	-87	5395.0	5395.0	$2,173,173.16	$2,181,501.57	($8,328.41)
6.04.03.01.05	BEE440800	LASP MB and RTM production (lot 1) write vend	03/30/23	08/02/23	04/13/23	08/16/23	-87	-87	20.0	20.0	$2,080.04	$2,080.04	$0.00
6.04.03.01.05	BEE440810	LASP MB and RTM production (lot 1) request qu	04/13/23	08/16/23	06/15/23	10/19/23	-87	-87	138.0	138.0	$9,152.18	$9,230.96	($78.78)
6.04.03.01.05	BEE440820	LASP MB and RTM production (lot 1) select ven	06/15/23	10/19/23	06/30/23	11/03/23	-87	-87	22.0	22.0	$2,288.04	$2,356.68	($68.64)



Primary Baseline | Remaining Work | ATLAS Subsystem Critic...
Actual Work | Critical Remaining Work | Baseline Milestone

TASK filters: AAA Working FIter_1, AAA Working FIter_6, BL Delta Comparison, OBLIG to Remove.

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WBS	Activity ID	Activity Name	Prev BL Start	Start	Prev BL Finish	Finish	Var-Prev BL Start Date	Var-Prev BL Finish	Prev BL Hrs	Hours	Prev BL Total Cost	Planned Total Cost	Var - Prev BL Total Cost
6.04.03.01.05	BEE440830	LASP MB and RTM production (lot 1) PCB manu	06/30/23	11/03/23	08/17/23	12/21/23	-87	-87	448.0	448.0	$8,192.88	$8,438.66	($245.78)
6.04.03.01.05	BEE440830M	Material for LASP MB and RTM production (lot 1	08/16/23	12/20/23	08/17/23	12/21/23	-87	-87	0.0	0.0	$79,733.64	$82,124.11	($2,390.47)
6.04.03.01.05	BEE440840	LASP MB and RTM production (lot 1) assembly	08/17/23	12/21/23	10/03/23	02/07/24	-87	-87	254.0	254.0	$7,960.08	$8,186.40	($226.32)
6.04.03.01.05	BEE440840M	PMT: for Parts for Procurement (lot 1)	10/02/23	02/06/24	10/03/23	02/07/24	-87	-87	0.0	0.0	$767,016.00	$767,016.00	$0.00
6.04.03.01.05	BEE440842M	Material for LASP MB and RTM production (lot 1	08/17/23	12/21/23	08/18/23	12/22/23	-87	-87	0.0	0.0	$30,487.76	$31,401.81	($914.05)
6.04.03.01.05	BEE440850	LASP MB and RTM production (lot 1) testing	10/03/23	02/07/24	12/29/23	05/02/24	-87	-87	489.0	489.0	$15,218.62	$15,218.62	$0.00
6.04.03.01.05	BEE440850M	Material for LASP MB and RTM production (lot 1	12/28/23	05/01/24	12/29/23	05/02/24	-87	-87	0.0	0.0	$36,471.45	$36,471.45	$0.00
6.04.03.01.05	BEE440850T	Travel for LASP MB and RTM production (lot 1) t	10/03/23	02/07/24	12/28/23	05/01/24	-87	-87	0.0	0.0	$3,511.24	$3,511.24	$0.00
6.04.03.01.05	BEE440852	Send 3 production boards to BNL for Full Readc	12/29/23	05/02/24	01/04/24	05/07/24	-87	-87	7.0	7.0	$133.06	$133.06	$0.00
6.04.03.01.05	BEE440854	Send 1 production board to AZ	12/29/23	05/02/24	01/04/24	05/07/24	-87	-87	7.0	7.0	$133.06	$133.06	$0.00
6.04.03.01.05	BEE440860	LASP MB and RTM tests of lot 1-1, ship to CERN	12/29/23	05/02/24	01/15/24	05/16/24	-87	-87	42.0	42.0	$2,560.63	$2,560.63	$0.00
6.04.03.01.05	BEE440862	LASP MB and RTM (lot 1-1), Acceptance test @	01/15/24	05/16/24	03/08/24	07/11/24	-87	-87	1290.0	1290.0	$100,522.81	$100,522.81	$0.00
6.04.03.01.05	BEE440862T	Travel for LASP MB and RTM production (lot 1-1	01/15/24	05/16/24	03/06/24	07/09/24	-87	-87	0.0	0.0	$10,533.72	$10,533.72	$0.00
6.04.03.01.05	BEE440865	LASP MB and RTM tests of lot 1-2, ship to CERI	03/08/24	07/11/24	03/22/24	07/25/24	-87	-87	271.0	271.0	$21,620.96	$21,620.96	$0.00
6.04.03.01.05	BEE440867	LASP MB and RTM (lot 1-2,), Acceptance test @	03/22/24	07/25/24	04/23/24	08/26/24	-87	-87	19.0	19.0	$2,035.32	$2,035.32	$0.00
6.04.03.01.05	BEE440867T	Travel for LASP MB and RTM (lot 1-2,), Acceptar	03/22/24	07/25/24	04/23/24	08/26/24	-87	-87	0.0	0.0	$7,022.48	$7,022.48	$0.00
6.04.03.01.05	BEE440880	LASP MB and RTM production (lot 2) PCB manu	11/15/23	03/21/24	01/04/24	05/07/24	-87	-87	66.0	66.0	$3,809.85	$3,809.85	$0.00
6.04.03.01.05	BEE440880M	Material for LASP MB and RTM production (lot 2	01/03/24	05/06/24	01/04/24	05/07/24	-87	-87	0.0	0.0	$82,124.11	$82,124.11	$0.00
6.04.03.01.05	BEE440890	LASP MB and RTM production (lot 2) assembly	01/04/24	05/07/24	02/20/24	06/21/24	-87	-87	124.0	124.0	$3,683.72	$3,683.72	$0.00
6.04.03.01.05	BEE440890M	PMT: to Procure Parts for LASP MB and RTM pr	02/16/24	06/20/24	02/20/24	06/21/24	-87	-87	0.0	0.0	$767,016.00	$767,016.00	$0.00
6.04.03.01.05	BEE440892M	Material for LASP MB and RTM production (lot 2	02/20/24	06/21/24	02/21/24	06/24/24	-87	-87	0.0	0.0	$31,401.81	$31,401.81	$0.00
6.04.03.01.05	BEE440900	LASP MB and RTM production (lot 2) testing	02/21/24	06/24/24	05/15/24	09/18/24	-87	-87	121.0	121.0	$6,970.04	$6,970.04	$0.00
6.04.03.01.05	BEE440910	LASP MB and RTM tests of lot 2-1, ship to CERI	05/15/24	09/18/24	05/30/24	10/02/24	-87	-87	20.0	20.0	$1,173.19	$1,178.09	($4.90)
6.04.03.01.05	BEE440912	LASP MB and RTM (lot 2-1), Acceptance test @	05/30/24	10/02/24	07/24/24	11/26/24	-87	-87	989.0	989.0	$81,441.41	$83,884.60	($2,443.19)
6.04.03.01.05	BEE440912T	Travel for LASP MB and RTM production (lot 2-2	05/30/24	10/02/24	07/24/24	11/26/24	-87	-87	0.0	0.0	$7,022.48	$7,236.58	($214.10)
6.04.03.01.05	BEE440914	LASP MB and RTM tests of lot 2-2, ship to CERI	07/24/24	11/26/24	08/07/24	12/11/24	-87	-87	20.0	20.0	$1,173.19	$1,208.39	($35.20)
6.04.03.01.05	BEE440916	LASP MB and RTM (lot 2-2), Acceptance test @	08/07/24	12/11/24	09/09/24	01/14/25	-87	-87	572.0	572.0	$47,085.57	$48,498.11	($1,412.54)
6.04.03.01.05	BEE440916T	Travel for LASP MB and RTM (lot 2-2), Acceptar	08/07/24	12/11/24	09/06/24	01/13/25	-87	-87	0.0	0.0	$7,022.48	$7,236.58	($214.10)
6.04.03.01.05	BEE440930	FW adjustments for integration	09/09/24	01/14/25	11/05/24	03/12/25	-87	-87	134.0	134.0	$6,981.14	$7,061.48	($80.34)
6.04.03.01.05	BEE440940	Final system tests at BNL	11/05/24	03/12/25	01/03/25	05/07/25	-87	-87	114.0	114.0	$7,061.48	$7,061.48	$0.00
6.04.03.01.05	BEE440950	Final system tests at CERN	01/03/25	05/07/25	02/14/25	06/19/25	-87	-87	228.0	228.0	$5,296.11	$5,296.11	$0.00
6.04.03.01.05	BEE440950T	Travel for Final system tests at CERN	01/03/25	05/07/25	02/13/25	06/18/25	-87	-87	0.0	0.0	$7,236.58	$7,236.58	$0.00
6.04.03.02 BE Electronics-Arizona			12/24/18	12/24/18	05/21/25	09/24/25	0	-87	7539.0	7589.0	$369,211.95	$382,276.84	($13,064.89)
6.04.03.02.01 Firmware Evaluation Board			12/24/18	12/24/18	08/12/19	12/05/19	0	-80	295.0	345.0	$25,542.84	$35,961.41	($10,418.57)
Evaluation Board Firmware			12/24/18	12/24/18	08/12/19	12/05/19	0	-80	295.0	345.0	$25,542.84	$35,961.41	($10,418.57)
6.04.03.02.01	BEE450065	LASP FW TDAQ block - develop pseudo-code		12/24/18		02/21/19			0.0	10.0	$0.00	$2,071.94	($2,071.94)
6.04.03.02.01	BEE450080	RTM FW base block - design FPGA functionality	12/24/18	02/21/19	02/21/19	04/18/19	-40	-40	40.0	40.0	$8,287.75	$8,287.75	$0.00
6.04.03.02.01	BEE450085	RTM FW base block - develop Pre-protype V1 fi		04/18/19		06/14/19			0.0	40.0	$0.00	$8,287.75	($8,287.75)
6.04.03.02.01	BEE450090	RTM FW base block - estimate resources	02/21/19	06/14/19	03/21/19	07/15/19	-80	-80	50.0	50.0	$855.68	$855.68	$0.00
6.04.03.02.01	BEE450090M	Material for RTM FW base block - estimate reso	02/21/19	06/14/19	03/21/19	07/15/19	-80	-80	0.0	0.0	$5,544.63	$5,544.63	$0.00
6.04.03.02.01	BEE450100	RTM FW TDAQ block - develop Pre-protype V1 f	03/21/19	07/15/19	05/16/19	09/10/19	-80	-80	40.0	40.0	$8,287.75	$8,287.75	$0.00
6.04.03.02.01	BEE450110	RTM FW TDAQ block - estimate resources	05/16/19	09/10/19	06/14/19	10/08/19	-80	-80	50.0	50.0	$855.68	$863.22	($7.54)
6.04.03.02.01	BEE450120	RTM FW TTC block - develop Pre-protype V1 firr	06/14/19	10/08/19	08/12/19	12/05/19	-80	-80	115.0	115.0	$1,711.36	$1,762.70	($51.34)
6.04.03.02.04 Firmware and Integration Prototype			02/10/23	02/24/23	05/08/23	05/19/23	-9	-9	844.0	844.0	$24,089.98	$24,089.98	$0.00
No AP2 Task Group - Temp			02/10/23	02/24/23	05/08/23	05/19/23	-9	-9	844.0	844.0	$24,089.98	$24,089.98	$0.00
6.04.03.02.04	BEE450450	Carrier FW - prototype FW test with hardware	02/10/23	02/24/23	05/08/23	05/19/23	-9	-9	844.0	844.0	$21,005.91	$21,005.91	$0.00
6.04.03.02.04	BEE450450T	Travel for Carrier FW - prototype FW test with ha	02/10/23	02/24/23	05/05/23	05/18/23	-9	-9	0.0	0.0	$3,084.06	$3,084.06	$0.00
6.04.03.02.05 Firmware and Integration Production			05/08/23	05/19/23	05/21/25	09/24/25	-9	-87	6400.0	6400.0	$319,579.14	$322,225.46	($2,646.32)
No AP2 Task Group - Temp			05/08/23	05/19/23	05/21/25	09/24/25	-9	-87	6400.0	6400.0	$319,579.14	$322,225.46	($2,646.32)
6.04.03.02.05	BEE450520	Carrier FW base block - develop pre-production	05/08/23	05/19/23	07/05/23	07/18/23	-9	-9	70.0	70.0	$10,772.54	$10,772.54	$0.00
6.04.03.02.05	BEE450520M	Material for Carrier FW base block - develop pre-	05/08/23	05/19/23	07/03/23	07/17/23	-9	-9	0.0	0.0	$6,263.48	$6,263.48	$0.00
6.04.03.02.05	BEE450520T	Travel for Carrier FW base block - develop pre-p	05/08/23	05/19/23	07/03/23	07/17/23	-9	-9	0.0	0.0	$3,913.52	$3,913.52	$0.00
6.04.03.02.05	BEE450530	Carrier FW TDAQ block - develop pre-productior	07/05/23	07/18/23	08/30/23	09/13/23	-9	-9	70.0	70.0	$10,772.54	$10,772.54	$0.00
6.04.03.02.05	BEE450540	Carrier FW TTC block - develop pre-production F	08/30/23	09/13/23	10/27/23	11/09/23	-9	-9	60.0	60.0	$8,559.25	$8,616.22	($56.97)
6.04.03.02.05	BEE450550	Carrier FW - pre-production FW integration	10/27/23	11/09/23	12/26/23	01/09/24	-9	-9	70.0	70.0	$11,095.71	$11,095.71	$0.00
6.04.03.02.05	BEE450560	Carrier FW - pre-production FW test with hardwa	12/26/23	01/09/24	02/22/24	03/06/24	-9	-9	672.0	672.0	$10,818.04	$10,818.04	$0.00
6.04.03.02.05	BEE450570	AMC FW TDAQ block - develop pre-production F	05/08/23	05/19/23	07/05/23	07/18/23	-9	-9	240.0	240.0	$13,180.22	$13,180.22	$0.00
6.04.03.02.05	BEE450580	AMC FW MON-1 block - develop pre-production	07/05/23	07/18/23	08/30/23	09/13/23	-9	-9	240.0	240.0	$13,180.22	$13,180.22	$0.00
6.04.03.02.05	BEE450590	AMC FW MON-2 block - develop pre-production	08/30/23	09/13/23	10/27/23	11/09/23	-9	-9	240.0	240.0	$13,365.57	$13,454.53	($88.97)
6.04.03.02.05	BEE450600	AMC FW - pre-production FW integration	10/27/23	11/09/23	12/26/23	01/09/24	-9	-9	260.0	260.0	$18,379.51	$18,379.51	$0.00
6.04.03.02.05	BEE450610	AMC-FW - pre-production FW test with hardware	01/04/24	05/07/24	03/01/24	07/03/24	-87	-87	424.0	424.0	$13,700.37	$13,700.37	$0.00
6.04.03.02.05	BEE450610M	Material for AMC-FW - pre-production FW test wi	01/04/24	05/07/24	02/28/24	07/01/24	-87	-87	0.0	0.0	$3,100.00	$3,100.00	$0.00
6.04.03.02.05	BEE450620	System tests at BNL	03/01/24	07/03/24	04/12/24	08/15/24	-87	-87	216.0	216.0	$7,810.96	$7,810.96	$0.00
6.04.03.02.05	BEE450620T	Travel for System tests at BNL	03/01/24	07/03/24	04/12/24	08/15/24	-87	-87	0.0	0.0	$5,421.02	$5,421.02	$0.00
6.04.03.02.05	BEE450630	System tests at CERN	04/12/24	08/15/24	05/24/24	09/27/24	-87	-87	216.0	216.0	$7,810.96	$7,810.96	$0.00
6.04.03.02.05	BEE450630T	Travel for System tests at CERN	04/12/24	08/15/24	05/23/24	09/26/24	-87	-87	0.0	0.0	$4,944.50	$4,944.50	$0.00
6.04.03.02.05	BEE450650	Carrier FW base block - develop production FW	05/24/24	09/27/24	06/24/24	10/28/24	-87	-87	266.0	266.0	$8,802.93	$9,047.21	($244.29)

Primary Baseline | Remaining Work | ATLAS Subsystem Critic...
Actual Work | Critical Remaining Work | Baseline Milestone

TASK filters: AAA Working FIter_1, AAA Working FIter_6, BL Delta Comparison, OBLIG to Remove.

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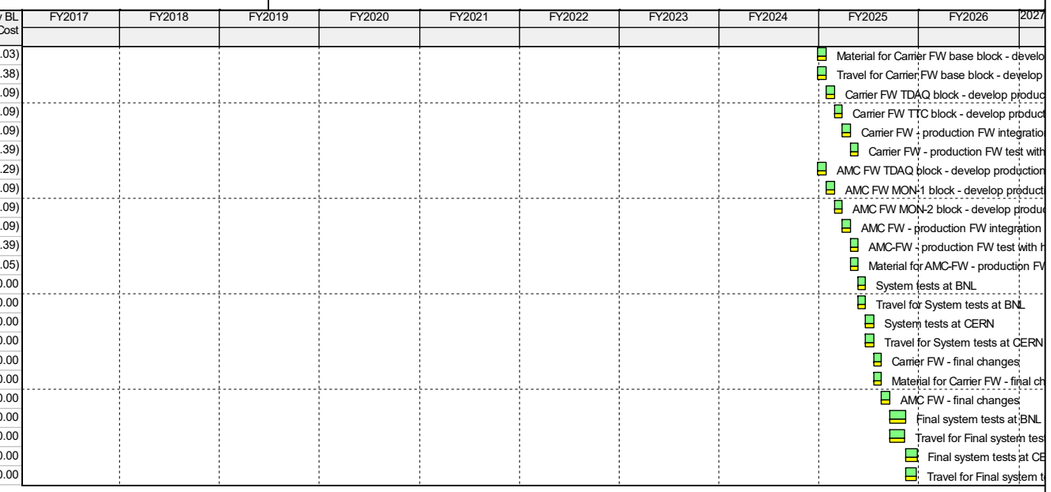
WBS	Activity ID	Activity Name	Prev BL Start	Start	Prev BL Finish	Finish	Var-Prev BL Start Date	Var-Prev BL Finish	Prev BL Hrs	Hours	Prev BL Total Cost	Planned Total Cost	Var - Prev BL Total Cost
6.04.03.02.05	BEE450650M	Material for Carrier FW base block - develop pro	05/24/24	09/27/24	06/21/24	10/25/24	-87	-87	0.0	0.0	$6,429.40	$6,620.43	($191.03)
6.04.03.02.05	BEE450650T	Travel for Carrier FW base block - develop produ	05/24/24	09/27/24	06/21/24	10/25/24	-87	-87	0.0	0.0	$4,030.81	$4,142.19	($111.38)
6.04.03.02.05	BEE450660	Carrier FW TDAQ block - develop production FW	06/24/24	10/28/24	07/23/24	11/25/24	-87	-87	266.0	266.0	$8,802.93	$9,067.02	($264.09)
6.04.03.02.05	BEE450670	Carrier FW TTC block - develop production FW	07/23/24	11/25/24	08/20/24	12/24/24	-87	-87	266.0	266.0	$8,802.93	$9,067.02	($264.09)
6.04.03.02.05	BEE450680	Carrier FW - production FW integration	08/20/24	12/24/24	09/18/24	01/23/25	-87	-87	266.0	266.0	$8,802.93	$9,067.02	($264.09)
6.04.03.02.05	BEE450690	Carrier FW - production FW test with hardware	09/18/24	01/23/25	10/17/24	02/21/25	-87	-87	40.0	40.0	$3,568.56	$3,613.96	($45.39)
6.04.03.02.05	BEE450700	AMC FW TDAQ block - develop production FW	05/24/24	09/27/24	06/24/24	10/28/24	-87	-87	266.0	266.0	$8,802.93	$9,047.21	($244.29)
6.04.03.02.05	BEE450710	AMC FW MON-1 block - develop production FW	06/24/24	10/28/24	07/23/24	11/25/24	-87	-87	266.0	266.0	$8,802.93	$9,067.02	($264.09)
6.04.03.02.05	BEE450720	AMC FW MON-2 block - develop production FW	07/23/24	11/25/24	08/20/24	12/24/24	-87	-87	266.0	266.0	$8,802.93	$9,067.02	($264.09)
6.04.03.02.05	BEE450730	AMC FW - production FW integration	08/20/24	12/24/24	09/18/24	01/23/25	-87	-87	266.0	266.0	$8,802.93	$9,067.02	($264.09)
6.04.03.02.05	BEE450740	AMC-FW - production FW test with hardware	09/18/24	01/23/25	10/17/24	02/21/25	-87	-87	40.0	40.0	$3,568.56	$3,613.96	($45.39)
6.04.03.02.05	BEE450740M	Material for AMC-FW - production FW test with h	09/18/24	01/23/25	10/16/24	02/20/25	-87	-87	0.0	0.0	$2,365.95	$2,400.00	($34.05)
6.04.03.02.05	BEE450750	System tests at BNL	10/17/24	02/21/25	11/14/24	03/21/25	-87	-87	258.0	258.0	$7,087.82	$7,087.82	$0.00
6.04.03.02.05	BEE450750T	Travel for System tests at BNL	10/17/24	02/21/25	11/14/24	03/21/25	-87	-87	0.0	0.0	$5,583.65	$5,583.65	$0.00
6.04.03.02.05	BEE450760	System tests at CERN	11/14/24	03/21/25	12/13/24	04/18/25	-87	-87	258.0	258.0	$7,087.82	$7,087.82	$0.00
6.04.03.02.05	BEE450760T	Travel for System tests at CERN	11/14/24	03/21/25	12/13/24	04/18/25	-87	-87	0.0	0.0	$5,104.00	$5,104.00	$0.00
6.04.03.02.05	BEE450780	Carrier FW - final changes	12/13/24	04/18/25	01/14/25	05/16/25	-87	-87	266.0	266.0	$9,067.02	$9,067.02	$0.00
6.04.03.02.05	BEE450780M	Material for Carrier FW - final changes	12/13/24	04/18/25	01/14/25	05/16/25	-87	-87	0.0	0.0	$2,400.00	$2,400.00	$0.00
6.04.03.02.05	BEE450790	AMC FW - final changes	01/14/25	05/16/25	02/11/25	06/16/25	-87	-87	266.0	266.0	$9,067.02	$9,067.02	$0.00
6.04.03.02.05	BEE450800	Final system tests at BNL	02/11/25	06/16/25	04/09/25	08/12/25	-87	-87	258.0	258.0	$7,087.82	$7,087.82	$0.00
6.04.03.02.05	BEE450800T	Travel for Final system tests at BNL	02/11/25	06/16/25	04/08/25	08/11/25	-87	-87	0.0	0.0	$5,583.65	$5,583.65	$0.00
6.04.03.02.05	BEE450810	Final system tests at CERN	04/09/25	08/12/25	05/21/25	09/24/25	-87	-87	108.0	108.0	$1,979.20	$1,979.20	$0.00
6.04.03.02.05	BEE450810T	Travel for Final system tests at CERN	04/09/25	08/12/25	05/20/25	09/23/25	-87	-87	0.0	0.0	$6,056.00	$6,056.00	$0.00



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