

U.S.ATLAS
1.1 Silicon ETC 02
WBS 1.1.2 Silicon Strip Schedule

ID	WBS	Task Name	Duration	Start	Finish	Predecessor:	Cost	2002				2003				20	
								1	2	3	4	1	2	3	4	1	2
1	1.1.2	Silicon Strip System	1860 d	Mon 9/2/96	Fri 10/17/03		\$995,479.68										
2	1.1.2.1	IC Electronics	1847 d	Mon 9/2/96	Tue 9/30/03		\$250,105.52										
3	1.1.2.1.1	Design	1847 d	Mon 9/2/96	Tue 9/30/03		\$206,316.72										
4		Resources	1847 d	Mon 9/2/96	Tue 9/30/03		\$206,316.72										
5		Prior Scheduled FY Actuals	1065 d	Mon 9/2/96	Fri 9/29/00		\$0.00										
6		Design FY02 Mat'l/Labor \$'s	261 d	Mon 10/1/01	Mon 9/30/02		\$130,556.12										
7		Design FY03 Mat'l/Labor \$'s	261 d	Tue 10/1/02	Tue 9/30/03		\$75,760.60										
8		Release management contingency	0 d	Mon 2/4/02	Mon 2/4/02	29	\$0.00										
9		Systems Engineering	977 d	Mon 1/3/00	Tue 9/30/03		\$0.00										
10		Administrative Support	912 d	Mon 4/3/00	Tue 9/30/03		\$0.00										
11	1.1.2.1.2	Development & Prototypes	1284 d	Mon 9/2/96	Thu 8/2/01		\$0.00										
12		Resources	1065 d	Mon 9/2/96	Fri 9/29/00		\$0.00										
13		IC Elec.'s Protos Prior Scheduled FY	1065 d	Mon 9/2/96	Fri 9/29/00		\$0.00										
14		Implement Test Systems	481 d	Thu 9/30/99	Thu 8/2/01	23FF+20 d	\$0.00										
15		Test Systems Complete	0 d	Thu 8/2/01	Thu 8/2/01	14	\$0.00										
16	1.1.2.1.3	Production	1198 d	Fri 5/15/98	Tue 12/17/02		\$43,788.80										
17		Resources	1198 d	Fri 5/15/98	Tue 12/17/02		\$43,788.80										
18		Prior Scheduled FY Actuals	621 d	Fri 5/15/98	Fri 9/29/00		\$0.00										
19		Production FY02 Mat'l/Labor \$'s	261 d	Mon 10/1/01	Mon 9/30/02		\$43,788.80										
20		Production FY03 Mat'l/Labor \$'s	56 d	Tue 10/1/02	Tue 12/17/02		\$0.00										
21		Implement Test Systems	89 d	Mon 10/1/01	Thu 1/31/02		\$0.00										
22		Test Systems Complete	0 d	Thu 1/31/02	Thu 1/31/02	21	\$0.00										
23	Sil L2/1	Release/Start Full Electronics Producti	0 d	Fri 7/6/01	Fri 7/6/01		\$0.00										
24		Production Fabrication	366 d	Fri 7/6/01	Fri 11/29/02	23	\$0.00										
25		First Lots Delivered	0 d	Mon 11/12/01	Mon 11/12/01	24SS+92 d	\$0.00										
26		Production Complete	0 d	Fri 11/29/02	Fri 11/29/02	24	\$0.00										
27		Test Production Chips	286 d	Tue 11/13/01	Tue 12/17/02	25	\$0.00										
28		1st ICs Avail for Prod Hybrids	0 d	Mon 1/7/02	Mon 1/7/02	25SS+40 d	\$0.00										
29		10% Testing Complete	0 d	Mon 2/4/02	Mon 2/4/02	27SS+60 d	\$0.00										
30		25% Testing Complete	0 d	Thu 3/28/02	Thu 3/28/02	29SS+38 d	\$0.00										
31		50% Testing Complete	0 d	Tue 6/25/02	Tue 6/25/02	30FS+63 d	\$0.00										
32		Baseline Scope(ICs) Complete	0 d	Tue 11/12/02	Tue 11/12/02	33FF-25 d	\$0.00										
33		Production Testing Complete	0 d	Tue 12/17/02	Tue 12/17/02	31FS+125 d	\$0.00										
34	1.1.2.2	Hybrids/Cables/Fanouts	1556 d	Mon 9/1/97	Mon 8/18/03		\$234,982.16										
35	1.1.2.2.1	Design	991 d	Mon 12/1/97	Mon 9/17/01		\$0.00										
36	1.1.2.2.2	Development & Prototype Fabrication	805 d	Mon 9/1/97	Fri 9/29/00		\$0.00										
37		Resources	805 d	Mon 9/1/97	Fri 9/29/00		\$0.00										

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								1	2	3	4	1	2	3	4	1	2
38		Prior Scheduled FY Actuals	805 d	Mon 9/1/97	Fri 9/29/00		\$0.00										
39	1.1.2.2.3	Production	491 d	Mon 10/1/01	Mon 8/18/03		\$234,982.16										
40		Resources	485 d	Mon 10/1/01	Fri 8/8/03		\$234,982.16										
41		Production FY02 Mat'l/Labor \$'s	261 d	Mon 10/1/01	Mon 9/30/02		\$170,847.44										LBLj MT PRJ[80%], LBLj S P
42		Production FY03 Mat'l/Labor \$'s	224 d	Tue 10/1/02	Fri 8/8/03		\$64,134.72										LBLj MT PR
43		Preproduction Assembly	30 d	Mon 12/17/01	Fri 1/25/02		\$0.00										
44		Compl Preproduction Assy	0 d	Fri 1/25/02	Fri 1/25/02	43	\$0.00										
45		Test Preproduction Hybrid	30 d	Mon 1/7/02	Fri 2/15/02	43SS+15 d	\$0.00										
46		Compl Testing of Preprod Hybrid	0 d	Fri 2/15/02	Fri 2/15/02	45	\$0.00										
47		1st Preproduction Hybrids Avail for Mod A	0 d	Tue 1/8/02	Tue 1/8/02	45SS+2 d	\$0.00										
48		1st production hybrids available from Japa	0 d	Fri 2/1/02	Fri 2/1/02		\$0.00										
49		Production Assembly	400 d	Fri 2/1/02	Thu 8/14/03	28FS+10 d,4	\$0.00										
50		Compl Prod Assembly	0 d	Thu 8/14/03	Thu 8/14/03	49	\$0.00										8/14
51		Test Production Hybrids	400 d	Tue 2/5/02	Mon 8/18/03	49SS+2 d	\$0.00										
52		1st Prod Hybrids Avail for Mod Assy	0 d	Fri 2/8/02	Fri 2/8/02	51SS+4 d	\$0.00										
53		Compl 10% Test of Prod Hybrids	0 d	Mon 5/20/02	Mon 5/20/02	51SS+75 d	\$0.00										
54		Compl 25 % Test of Prod Hybrids	0 d	Mon 7/29/02	Mon 7/29/02	51SS+125 d	\$0.00										
55		Compl 50 % Test of Prod Hybrids	0 d	Fri 12/6/02	Fri 12/6/02	51SS+219 d	\$0.00										
56		Compl Testing of Production Hybrids	0 d	Fri 8/8/03	Fri 8/8/03	51SS+394 d	\$0.00										
57	1.1.2.3	Module Assembly and Test	1512 d	Thu 1/1/98	Fri 10/17/03		\$510,392.00										
58	1.1.2.3.1	Design of Assembly & Test Tooling	1112 d	Thu 1/1/98	Fri 4/5/02		\$0.00										
59		Resources	1072 d	Thu 1/1/98	Fri 2/8/02		\$0.00										
60		Prior Scheduled FY Actuals	717 d	Thu 1/1/98	Fri 9/29/00		\$0.00										
61		Design FY02 Mat'l/Labor \$s	95 d	Mon 10/1/01	Fri 2/8/02		\$0.00										
62		Design of Prod Mod Assy & Test	235 d	Mon 5/14/01	Fri 4/5/02	52FF+40 d	\$0.00										
63		Compl Design of Prod Mod Assy/Test	0 d	Fri 4/5/02	Fri 4/5/02	62	\$0.00										
64		Module Assembly Qualification	0 d	Fri 4/5/02	Fri 4/5/02	63	\$0.00										
65	1.1.2.3.2	Development & Prototypes	659 d	Tue 3/24/98	Fri 9/29/00		\$0.00										
66		Resources	659 d	Tue 3/24/98	Fri 9/29/00		\$0.00										
67		Prior Scheduled FY Actuals	659 d	Tue 3/24/98	Fri 9/29/00		\$0.00										
68	1.1.2.3.3	Production	1375 d	Mon 7/13/98	Fri 10/17/03		\$510,392.00										
69		Resources	1362 d	Mon 7/13/98	Tue 9/30/03		\$510,392.00										
70		Prior Scheduled FY Actuals	580 d	Mon 7/13/98	Fri 9/29/00		\$0.00										
71		Production FY02 Mat'l/Labor \$'s	261 d	Mon 10/1/01	Mon 9/30/02		\$386,241.00										LBLj MT PRJ[253%], LBLs M
72		Production FY03 Mat'l/Labor \$'s	261 d	Tue 10/1/02	Tue 9/30/03		\$124,151.00										LBLj MT
73		Receive baseboards for Preprod Modules	0 d	Tue 1/15/02	Tue 1/15/02		\$0.00										
74		Receive Detectors for Preprod Modules	0 d	Tue 1/15/02	Tue 1/15/02		\$0.00										

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75		Assemble Preproduction Modules	25 d	Tue 1/15/02	Mon 2/18/02	74SS	\$0.00										
76		Complete Preproduction Module Assembl	0 d	Mon 2/18/02	Mon 2/18/02	75	\$0.00										
77		Test/Measure Preprod Modules	25 d	Wed 1/23/02	Tue 2/26/02	75SS+6 d	\$0.00										
78		Complete Preproduction Module Testing	0 d	Tue 2/26/02	Tue 2/26/02	77	\$0.00										
79		Receive baseboards for Prod Modules	240 d	Fri 2/15/02	Thu 1/16/03		\$0.00										
80		Receive Detectors for Prod Modules	340 d	Tue 1/15/02	Mon 5/5/03		\$0.00										
81	Sil L2/2	Start Full Strip Module Production	0 d	Fri 4/12/02	Fri 4/12/02	64FS+5 d,52	\$0.00										
82		Assembly of Production Modules	355 d	Mon 4/15/02	Fri 8/22/03	81	\$0.00										
83		Complete 10% of Production Modules	0 d	Fri 9/13/02	Fri 9/13/02	82SS+110 d	\$0.00										
84		Complete 25% of Production Modules	0 d	Fri 11/8/02	Fri 11/8/02	83FS+40 d	\$0.00										
85		Complete 50% of Production Modules	0 d	Fri 2/21/03	Fri 2/21/03	84FS+75 d	\$0.00										
86		Complete Production Modules	0 d	Fri 8/22/03	Fri 8/22/03	85FS+130 d	\$0.00										
87		Rework of Production Modules	355 d	Mon 5/6/02	Fri 9/12/03	82SS+15 d	\$0.00										
88		Compl Rework of Prod Modules	0 d	Fri 9/12/03	Fri 9/12/03	87	\$0.00										
89		Testing of Production Modules	360 d	Mon 5/6/02	Fri 9/19/03	82SS+15 d	\$0.00										
90		Compl Testing of 10% of Prod Modules	0 d	Fri 10/11/02	Fri 10/11/02	83SS+20 d	\$0.00										
91		Compl Testing of 25% of Prod Modules	0 d	Fri 12/6/02	Fri 12/6/02	84SS+20 d	\$0.00										
92		Compl Testing of 50% of Prod Modules	0 d	Fri 3/21/03	Fri 3/21/03	85SS+20 d	\$0.00										
93		Compl Testing of Production Modules	0 d	Fri 9/19/03	Fri 9/19/03	88FS+2 d,86	\$0.00										
94		Ship Production Modules	265 d	Mon 10/14/02	Fri 10/17/03	90	\$0.00										
95		ATLAS barrel module complete date	0 d	Mon 6/23/03	Mon 6/23/03		\$0.00										
96		Ship 400 modules complete	0 d	Mon 6/23/03	Mon 6/23/03	95	\$0.00										
97	Sil L2/4	Compl Shipping of Prod Modules	0 d	Fri 10/17/03	Fri 10/17/03	94	\$0.00										

