

**U.S. ATLAS
1.1 Silicon ETC 04
WBS 1.1.1 Pixels Schedule**

ID	WBS	Task Name	Duration	Start	Finish	2004				2005				2006				1		
						1	2	3	4	1	2	3	4	1	2	3	4			
1	1.1.1	US ATLAS Pixel Project	1776 d	Fri 10/1/99	Mon 7/24/06															
2	1.1.1.1	Mechanics	994 d	Tue 10/1/02	Mon 7/24/06															
3	1.1.1.1.1	Design	261 d	Fri 10/1/04	Fri 9/30/05															
4		Mechanics Engineering FY05 \$\$	261 d	Fri 10/1/04	Fri 9/30/05															
5		PP1 Interfaces PRR	0 d	Wed 2/23/05	Wed 2/23/05															
6	1.1.1.1.2	Development/Prototypes	580 d	Tue 10/1/02	Mon 12/20/04															
7		Development/Prototypes FY05 \$\$	186 d	Wed 10/1/03	Wed 6/16/04															
8		Service panel/PP1 development	580 d	Tue 10/1/02	Mon 12/20/04															
9		Service panel/PP1 development complete	0 d	Mon 12/20/04	Mon 12/20/04															
10	1.1.1.1.3	Production	994 d	Tue 10/1/02	Mon 7/24/06															
11		Production FY05 \$\$	261 d	Fri 10/1/04	Fri 9/30/05															
12		Production FY06 \$\$	60 d	Mon 10/3/05	Fri 12/23/05															
13		Disk Sector Fabrication	700 d	Tue 10/1/02	Mon 6/6/05															
14		Support tube fabrication	400 d	Fri 8/1/03	Thu 2/10/05															
15		Service panel/PP1 fabrication	452 d	Thu 4/1/04	Fri 12/23/05															
16		Disk Assembly/Test	146 d	Mon 1/10/05	Mon 8/1/05															
17	Sil L2/9; Sil L3/1	Disk System at CERN	0 d	Mon 8/29/05	Mon 8/29/05															
18		Beam pipe support fabrication	350 d	Wed 10/1/03	Tue 2/1/05															
19		Trial assembly pixel package/PST	20 d	Fri 2/11/05	Thu 3/10/05															
20		PST at CERN	0 d	Thu 6/2/05	Thu 6/2/05															
21		TC PST RFI date	0 d	Wed 11/30/05	Wed 11/30/05															
22		System Assembly/Test at CERN	270 d	Wed 6/15/05	Tue 6/27/06															
23		Pixel System Ready for Installation	0 d	Tue 6/27/06	Tue 6/27/06															
24		TC RFI date for pixel installation	0 d	Tue 2/7/06	Tue 2/7/06															
25		Start pixel in-pit installation	0 d	Mon 7/24/06	Mon 7/24/06															
26																				
27	1.1.1.2	Sensors	0 d	Fri 10/1/99	Fri 10/1/99															

LBLs TR PRJ[

LBLs PM PRJ[

**U.S. ATLAS
1.1 Silicon ETC 04
WBS 1.1.1 Pixels Schedule**

ID	WBS	Task Name	Duration	Start	Finish	2004				2005				2006				1
						1	2	3	4	1	2	3	4	1	2	3	4	
28																		
29	1.1.1.3	Electronics	393 d	Wed 10/1/03	Fri 4/1/05													
30	1.1.1.3.3	Production	393 d	Wed 10/1/03	Fri 4/1/05													
31		Production FY05 \$\$	131 d	Fri 10/1/04	Fri 4/1/05													
32		FE Production	290 d	Wed 10/1/03	Tue 11/9/04													
33		100% FE wafers complete delivery	0 d	Tue 11/9/04	Tue 11/9/04													
34		Test FE IBM wafers	350 d	Mon 12/1/03	Fri 4/1/05													
35		FE Testing complete	0 d	Fri 4/1/05	Fri 4/1/05													
36																		
37	1.1.1.4	Flex Hybrids/Optical Hybrids	590 d	Mon 9/1/03	Fri 12/2/05													
38	1.1.1.4.3	Production	590 d	Mon 9/1/03	Fri 12/2/05													
39		Hybrids Production FY05 \$\$	101 d	Fri 10/1/04	Fri 2/18/05													
40		Flex Hybrid Production/Load	345 d	Mon 9/1/03	Fri 12/24/04													
41		Flex complete	0 d	Fri 12/24/04	Fri 12/24/04													
42		Flex testing	375 d	Mon 9/15/03	Fri 2/18/05													
43		Flex testing complete	0 d	Fri 2/18/05	Fri 2/18/05													
44		Optical Production/Test	328 d	Wed 9/1/04	Fri 12/2/05													
45		First optical boards	0 d	Tue 11/9/04	Tue 11/9/04													
46		Optical production/test complete	0 d	Fri 12/2/05	Fri 12/2/05													
47																		
48	1.1.1.5	Modules	400 d	Mon 12/15/03	Fri 6/24/05													
49	1.1.1.5.3	Production	400 d	Mon 12/15/03	Fri 6/24/05													
50		Modules Production FY05 \$\$	9 d	Fri 10/1/04	Wed 10/13/04													
51		FE Wafer Bump Deposition	280 d	Mon 12/15/03	Fri 1/7/05													
52		FE wafer thinning	280 d	Mon 1/12/04	Fri 2/4/05													
53		FE Wafer Dicing	280 d	Mon 1/12/04	Fri 2/4/05													
54		FE Die sort	370 d	Mon 1/19/04	Fri 6/17/05													

UOK ET PRJ[1%],OSU

11/9

4/1

12/24

2/18

11/9

12/2

**U.S. ATLAS
1.1 Silicon ETC 04
WBS 1.1.1 Pixels Schedule**

ID	WBS	Task Name	Duration	Start	Finish	2004				2005				2006				1
						1	2	3	4	1	2	3	4	1	2	3	4	
55		Bare module production/testing	320 d	Mon 2/2/04	Fri 4/22/05													
56		Module assembly/test	340 d	Mon 2/16/04	Fri 6/3/05													
57		Complete testing modules	0 d	Fri 6/3/05	Fri 6/3/05													
58		Module attach to disk sectors	190 d	Mon 9/27/04	Fri 6/17/05													
59		Test disk sectors	190 d	Mon 10/4/04	Fri 6/24/05													
60		Complete testing disk sectors	0 d	Fri 6/24/05	Fri 6/24/05													
61																		
62	1.1.1.6	Beam/System Test Support	261 d	Fri 10/1/04	Fri 9/30/05													
63		System Test Support	261 d	Fri 10/1/04	Fri 9/30/05													
64		System Test Support FY05 \$s	261 d	Fri 10/1/04	Fri 9/30/05													

