Run IIb Schedule Status

- Schedule Status
- COBRA Issues
- Summary

Overview of Director's Milestones

L2/Director's Milestones vs Current Forecast

(Sorted by L2/Director's Baseline Date)

Status date 3/31/03

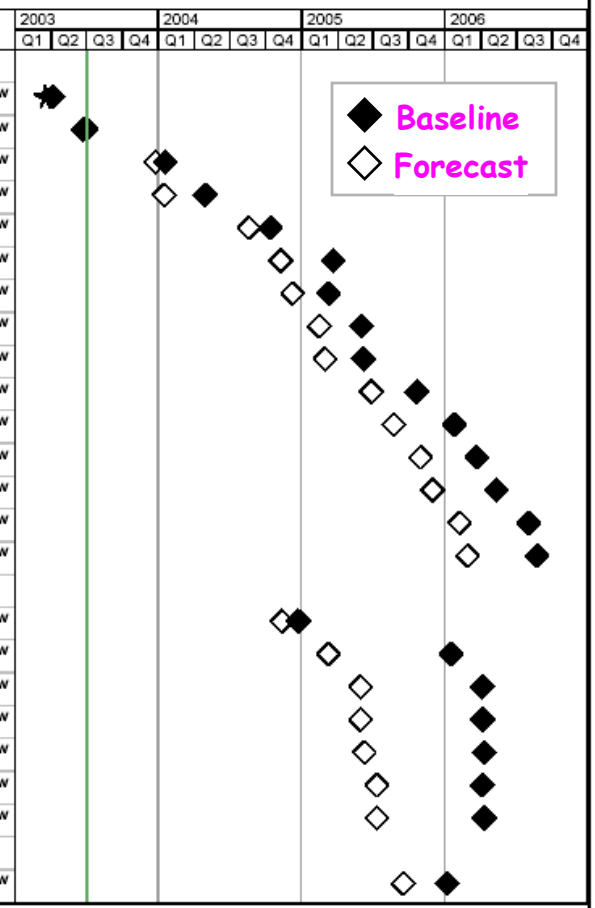
Milestone Description	L2/Director's Baseline (3/03)	Last Month's Forecast (2/03)	This Month's Forecast (3/03)	L2/Director's Variance (work days)	Monthly Variance (work days)	Notes
WBS 1.1 Silicon Tracker						
Silicon Prototype Mechanical Stave Built	01/06/03	12/18/02	12/18/02	(6)	0	Complete
L2-L5 Silicon Sensors Released For Production	03/24/03	04/01/03	04/01/03	6	0	
SVX4 Released For Production	10/20/03	09/19/03	09/25/03	(17)	4	
Successful Readout Of Full Silicon Stave	01/29/04	10/17/03	10/17/03	(64)	0	
Silicon Module Production Begun	07/15/04	05/17/04	05/21/04	(37)	4	
All Silicon Sensors Delivered And Tested	12/09/04	09/08/04	09/08/04	(64)	0	
All SVX4 Chips Produced And Tested	12/21/04	08/03/04	08/09/04	(93)	4	
All Silicon Hybrids Produced And Tested	03/03/05	11/09/04	11/15/04	(68)	4	
Silicon Stave Production Begun	03/08/05	11/22/04	11/30/04	(62)	4	
Silicon Module Production And Testing Complete	07/22/05	03/22/05	03/28/05	(82)	4	
Downstream Silicon Readout Ready for Installation On Platform	10/25/05	05/18/05	05/24/05	(107)	4	
Silicon Stave Production Complete	12/22/05	07/26/05	08/01/05	(100)	4	
South Silicon Complete	02/10/06	08/25/05	08/31/05	(106)	4	
North Silicon Complete	05/04/06	11/02/05	11/08/05	(117)	4	
Silicon Ready To Move To DAB	05/25/06	11/21/05	11/29/05	(119)	4	
WBS 1.2 Trigger						
L1 Trigger Cal-Trk Match Production and Testing Completed	09/23/04	08/12/04	08/12/04	(29)	0	
L2 Silicon Track Trigger Production and Testing Complete	10/17/05	12/08/04	12/08/04	(212)	0	
L1 Calorimeter Trigger Production And Testing Complete	01/05/06	03/28/05	04/11/05	(181)	10	
L2 Beta Trigger Production And Testing Complete	01/05/06	02/28/05	02/28/05	(211)	0	
L2 Trigger Upgrade Production and Testing Complete	01/05/06	02/28/05	02/28/05	(211)	0	
L1 Central Track Trigger Production And Testing Complete	01/10/06	03/10/05	03/10/05	(206)	0	
L1 Trigger Upgrade Production and Testing Complete	01/10/06	03/28/05	04/11/05	(184)	10	
WBS 1.3 Online/DAQ						
Online System Production and Testing Complete	10/07/05	06/17/05	06/17/05	(78)	0	

Director's Milestones

Run IIb Director's Milestones
Sorted By Forecast Date

Fiscal Year

ID	Name	Forecast	Baseline	Variance
	1.1 Silicon Tracker			
565	Silicon Prototype Mechanical Stave Built	12/18/02	1/6/03	-1.2 w
91	L2-L5 Silicon Sensors Released For Production	4/1/03	3/24/03	1.2 w
138	SVX4 Released For Production	9/25/03	10/20/03	-3.4 w
439	Successful Readout Of Full Silicon Stave	10/17/03	1/29/04	-12.8 w
649	Silicon Module Production Begun	5/21/04	7/15/04	-7.4 w
139	All SVX4 Chips Produced And Tested	8/9/04	12/21/04	-18.6 w
105	All Silicon Sensors Delivered And Tested	9/8/04	12/9/04	-12.8 w
228	All Silicon Hybrids Produced And Tested	11/15/04	3/3/05	-13.6 w
804	Silicon Stave Production Begun	11/30/04	3/8/05	-12.46 w
693	Silicon Module Production And Testing Complete	3/28/05	7/22/05	-16.3 w
415	Downstream Silicon Readout Ready for Installation On Platform	5/24/05	10/25/05	-21.4 w
829	Silicon Stave Production Complete	8/1/05	12/22/05	-20.06 w
903	South Silicon Complete	8/31/05	2/10/06	-21.2 w
928	North Silicon Complete	11/8/05	5/4/06	-23.46 w
931	Silicon Ready To Move To DAB	11/29/05	5/25/06	-23.86 w
	1.2 Trigger			
168	L1 Trigger Cal-Trk Match Production and Testing Completed	8/12/04	9/23/04	-5.8 w
354	L2 Silicon Track Trigger Production and Testing Complete	12/8/04	10/17/05	-42.4 w
270	L2 Beta Trigger Production And Testing Complete	2/28/05	1/5/06	-42.2 w
355	L2 Trigger Upgrade Production and Testing Complete	2/28/05	1/5/06	-42.2 w
227	L1 Central Track Trigger Production And Testing Complete	3/10/05	1/10/06	-41.2 w
112	L1 Calorimeter Trigger Production And Testing Complete	4/11/05	1/5/06	-36.2 w
228	L1 Trigger Upgrade Production and Testing Complete	4/11/05	1/10/06	-36.8 w
	1.3 Online			
154	Online System Production and Testing Complete	6/17/05	10/7/05	-15.6 w



Project: D0 Run IIb Upgrade
Staus Date: 3/31/03
Print Date: 4/25/03

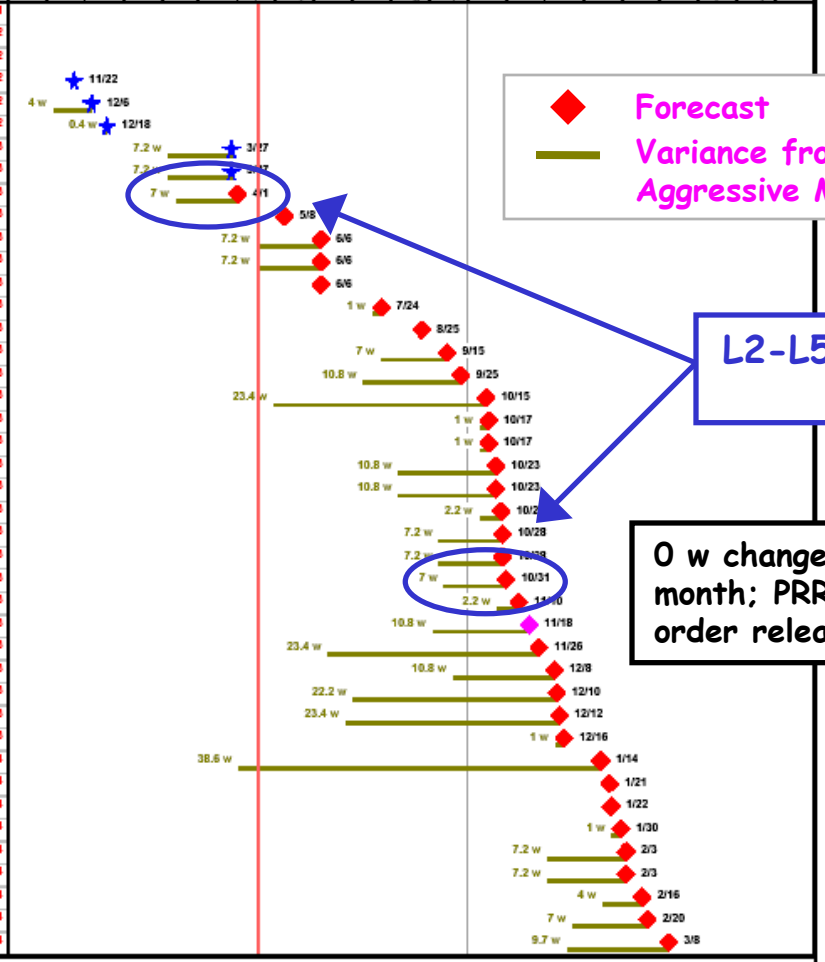
Completed Milestone ★ Current Forecast ◇ Baseline Milestone ◆

Page 1 of 1

All Silicon Milestones - 1 Year Outlook

Run IIb Silicon Milestones
(1 year outlook - < 4/1/04)

ID	Name	Aggressive	Forecast
987	Release Of Silicon Reconstruction Code	9/12/01	9/12/01
136	First Chip Ready For Hybrid	7/8/02	7/8/02
446	Successful Readout of Hybrid With SASEQ Test Stand	8/1/02	8/1/02
437	Successful Readout Of More Than 1 Silicon Hybrid	11/25/02	11/22/02
15	Sensor Probing Equipment Setup And Certification Complete	11/6/02	12/6/02
565	Silicon Prototype Mechanical Stave Built	12/16/02	12/18/02
33	Choose L0 Silicon Sensor Technology	2/5/03	3/27/03
69	Choose L1 Silicon Sensor Technology	2/5/03	3/27/03
91	L2-L5 Silicon Sensors Released For Production	2/11/03	4/1/03
369	Silicon High-mass Cables Ready	5/8/03	5/8/03
38	L0 Silicon Sensors Released For Production	4/16/03	6/6/03
70	L1 Silicon Sensors Released For Production	4/16/03	6/6/03
846	Silicon Cylinders Released for Production	6/17/03	6/6/03
800	Successful Fabrication of an Electrical-grade Pre-production Silicon Stave	7/17/03	7/24/03
1006	Release Silicon Event Display Package	8/25/03	8/25/03
679	Begin 20cm Gang Production	7/25/03	9/15/03
138	SVX4 Released For Production	7/10/03	9/25/03
996	Release Silicon Unpacking And Translation Packages	4/30/03	10/15/03
439	Successful Readout Of Full Silicon Stave	10/10/03	10/17/03
587	Stave Shells For South Silicon Complete	10/10/03	10/17/03
194	Silicon L1 Hybrids Released For Production	8/7/03	10/23/03
358	Silicon SASEQ Test Stands Ready	8/7/03	10/23/03
147	Silicon L0 Hybrids Released For Production	10/10/03	10/27/03
41	1st L0 Silicon Sensor Delivered	9/8/03	10/28/03
71	1st L1 Silicon Sensor Delivered	9/8/03	10/28/03
97	25% L2-L5 Silicon Sensors Delivered And Tested	9/12/03	10/31/03
250	Silicon L0-L1 Digital Jumper Cables Released For Production	10/24/03	11/10/03
225	Silicon L2-L5 Hybrids Released For Production	9/3/03	11/18/03
1001	Release Silicon Examine Package	6/12/03	11/26/03
137	SVX4 Wafers Delivered	9/19/03	12/8/03
237	Silicon L0 Flex Cables Released For Production	7/2/03	12/10/03
451	Successful Readout Of Silicon Single-unit Full-chain	6/26/03	12/12/03
590	Stave Shells For North Silicon Complete	12/9/03	12/16/03
262	Silicon L2-L5 Digital Jumper Cables Released For Production	4/2/03	1/14/04
970	Temperature Monitoring System Ready To Be Installed	2/4/04	1/21/04
958	Decide On Final Radiation Monitoring System	1/22/04	1/22/04
573	Stave Cores For South Silicon Complete	1/23/04	1/30/04
42	All L0 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
72	All L1 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
413	Silicon HV System Components Ready	1/16/04	2/16/04
98	50% L2-L5 Silicon Sensors Delivered And Tested	12/23/03	2/20/04
503	Silicon Layer 0 South Mechanical Assemblies Complete	12/19/03	3/8/04



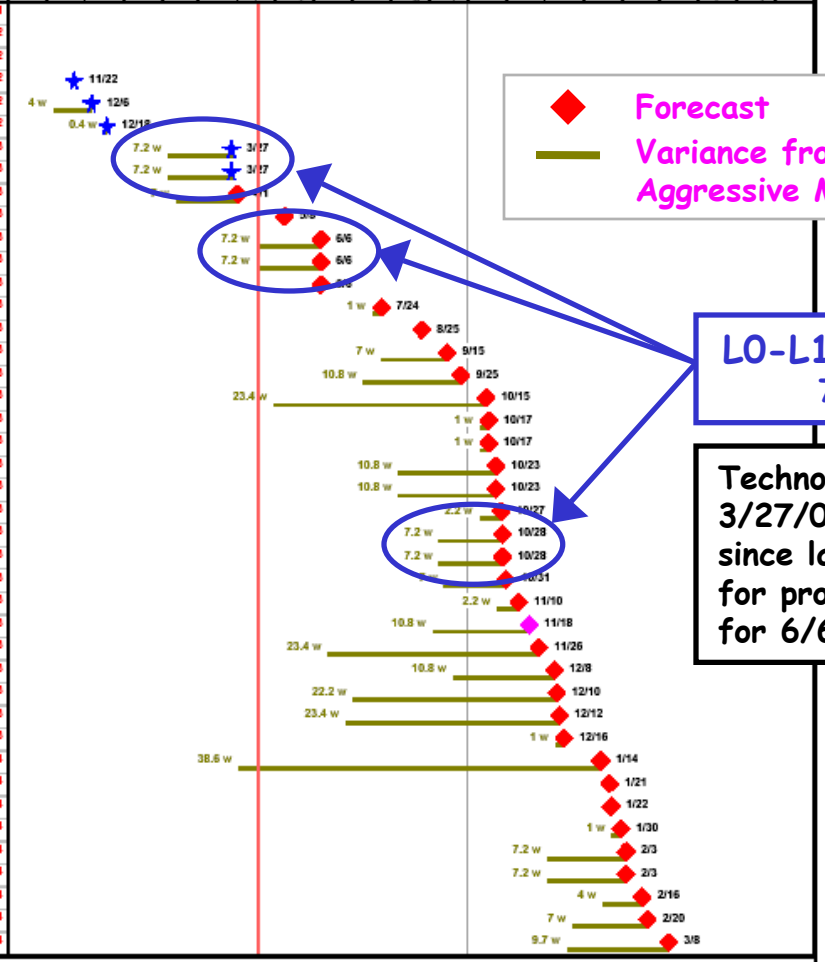
Project: Run IIb Silicon Schedule
Date: 4/17/03
Staus Date: 3/31/03

Aggressive Variance — Milestone — Critical Milestone — Completed Milestone

All Silicon Milestones - 1 Year Outlook

Run IIb Silicon Milestones
(1 year outlook - < 4/1/04)

ID	Name	Aggressive	Forecast
987	Release Of Silicon Reconstruction Code	9/12/01	9/12/01
136	First Chip Ready For Hybrid	7/8/02	7/8/02
446	Successful Readout of Hybrid With SASEQ Test Stand	8/1/02	8/1/02
437	Successful Readout Of More Than 1 Silicon Hybrid	11/25/02	11/22/02
15	Sensor Probing Equipment Setup And Certification Complete	11/6/02	12/6/02
565	Silicon Prototype Mechanical Stave Built	12/16/02	12/18/02
33	Choose L0 Silicon Sensor Technology	2/5/03	3/27/03
69	Choose L1 Silicon Sensor Technology	2/5/03	3/27/03
91	L2-L5 Silicon Sensors Released For Production	2/11/03	4/1/03
399	Silicon High-mass Cables Ready	5/8/03	5/8/03
38	L0 Silicon Sensors Released For Production	4/16/03	6/6/03
70	L1 Silicon Sensors Released For Production	4/16/03	6/6/03
846	Silicon Cylinders Released for Production	6/17/03	6/6/03
800	Successful Fabrication of an Electrical-grade Pre-production Silicon Stave	7/17/03	7/24/03
1006	Release Silicon Event Display Package	8/25/03	8/25/03
679	Begin 20cm Gang Production	7/25/03	9/15/03
138	SVX4 Released For Production	7/10/03	9/25/03
996	Release Silicon Unpacking And Translation Packages	4/30/03	10/15/03
439	Successful Readout Of Full Silicon Stave	10/10/03	10/17/03
587	Stave Shells For South Silicon Complete	10/10/03	10/17/03
194	Silicon L1 Hybrids Released For Production	8/7/03	10/23/03
358	Silicon SASEQ Test Stands Ready	8/7/03	10/23/03
147	Silicon L0 Hybrids Released For Production	10/10/03	10/27/03
41	1st L0 Silicon Sensor Delivered	9/8/03	10/28/03
71	1st L1 Silicon Sensor Delivered	9/8/03	10/28/03
97	25% L2-L5 Silicon Sensors Delivered And Tested	9/12/03	10/31/03
250	Silicon L0-L1 Digital Jumper Cables Released For Production	10/24/03	11/10/03
225	Silicon L2-L5 Hybrids Released For Production	9/3/03	11/18/03
1001	Release Silicon Examine Package	6/12/03	11/26/03
137	SVX4 Wafers Delivered	9/19/03	12/8/03
237	Silicon L0 Flex Cables Released For Production	7/2/03	12/10/03
451	Successful Readout Of Silicon Single-unit Full-chain	6/26/03	12/12/03
590	Stave Shells For North Silicon Complete	12/9/03	12/16/03
262	Silicon L2-L5 Digital Jumper Cables Released For Production	4/2/03	1/14/04
970	Temperature Monitoring System Ready To Be Installed	2/4/04	1/21/04
958	Decide On Final Radiation Monitoring System	1/22/04	1/22/04
573	Stave Cores For South Silicon Complete	1/23/04	1/30/04
42	All L0 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
72	All L1 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
413	Silicon HV System Components Ready	1/16/04	2/16/04
98	50% L2-L5 Silicon Sensors Delivered And Tested	12/23/03	2/20/04
503	Silicon Layer 0 South Mechanical Assemblies Complete	12/19/03	3/8/04



Technology choice made 3/27/03; -6d change since last month; release for production scheduled for 6/6/03

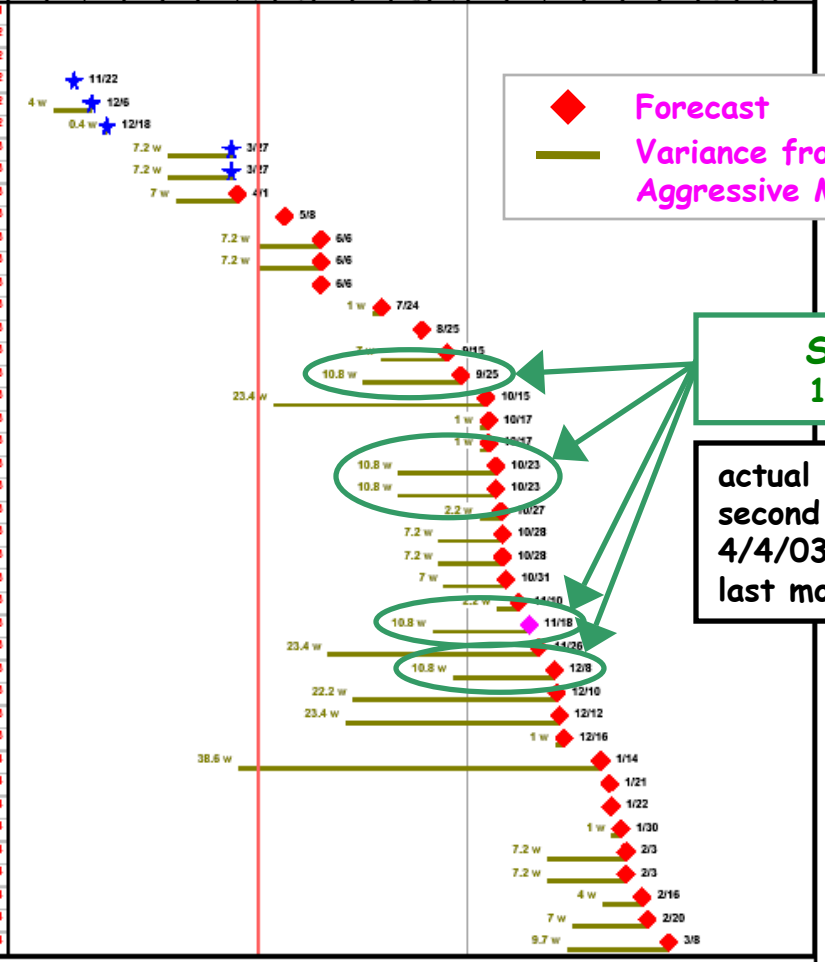
Project: Run IIb Silicon Schedule
Date: 4/17/03
Staus Date: 3/31/03

Aggressive Variance — Milestone — Critical Milestone — Completed Milestone

All Silicon Milestones - 1 Year Outlook

Run IIb Silicon Milestones
(1 year outlook - < 4/1/04)

ID	Name	Aggressive	Forecast
987	Release Of Silicon Reconstruction Code	9/12/01	9/12/01
136	First Chip Ready For Hybrid	7/8/02	7/8/02
446	Successful Readout of Hybrid With SASEQ Test Stand	8/1/02	8/1/02
437	Successful Readout Of More Than 1 Silicon Hybrid	11/25/02	11/22/02
15	Sensor Probing Equipment Setup And Certification Complete	11/6/02	12/6/02
565	Silicon Prototype Mechanical Stave Built	12/16/02	12/18/02
33	Choose L0 Silicon Sensor Technology	2/5/03	3/27/03
69	Choose L1 Silicon Sensor Technology	2/5/03	3/27/03
91	L2-L5 Silicon Sensors Released For Production	2/11/03	4/1/03
369	Silicon High-mass Cables Ready	5/8/03	5/8/03
38	L0 Silicon Sensors Released For Production	4/16/03	6/6/03
70	L1 Silicon Sensors Released For Production	4/16/03	6/6/03
846	Silicon Cylinders Released for Production	6/17/03	6/6/03
800	Successful Fabrication of an Electrical-grade Pre-production Silicon Stave	7/17/03	7/24/03
1006	Release Silicon Event Display Package	8/25/03	8/25/03
679	Begin 20cm Gang Production	7/25/03	9/15/03
138	SVX4 Released For Production	7/10/03	9/25/03
996	Release Silicon Unpacking And Translation Packages	4/30/03	10/15/03
439	Successful Readout Of Full Silicon Stave	10/10/03	10/17/03
587	Stave Shells For South Silicon Complete	10/10/03	10/17/03
194	Silicon L1 Hybrids Released For Production	8/7/03	10/23/03
358	Silicon SASEQ Test Stands Ready	8/7/03	10/23/03
147	Silicon L0 Hybrids Released For Production	10/10/03	10/27/03
41	1st L0 Silicon Sensor Delivered	9/8/03	10/28/03
71	1st L1 Silicon Sensor Delivered	9/8/03	10/28/03
97	25% L2-L5 Silicon Sensors Delivered And Tested	9/12/03	10/31/03
250	Silicon L0-L1 Digital Jumper Cables Released For Production	10/24/03	11/10/03
225	Silicon L2-L5 Hybrids Released For Production	9/3/03	11/18/03
1001	Release Silicon Examine Package	6/12/03	11/26/03
137	SVX4 Wafers Delivered	9/19/03	12/8/03
237	Silicon L0 Flex Cables Released For Production	7/2/03	12/10/03
451	Successful Readout Of Silicon Single-unit Full-chain	6/26/03	12/12/03
590	Stave Shells For North Silicon Complete	12/9/03	12/16/03
262	Silicon L2-L5 Digital Jumper Cables Released For Production	4/2/03	1/14/04
970	Temperature Monitoring System Ready To Be Installed	2/4/04	1/21/04
968	Decide On Final Radiation Monitoring System	1/22/04	1/22/04
573	Stave Cores For South Silicon Complete	1/23/04	1/30/04
42	All L0 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
72	All L1 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
413	Silicon HV System Components Ready	1/16/04	2/16/04
98	50% L2-L5 Silicon Sensors Delivered And Tested	12/23/03	2/20/04
503	Silicon Layer 0 South Mechanical Assemblies Complete	12/19/03	3/8/04



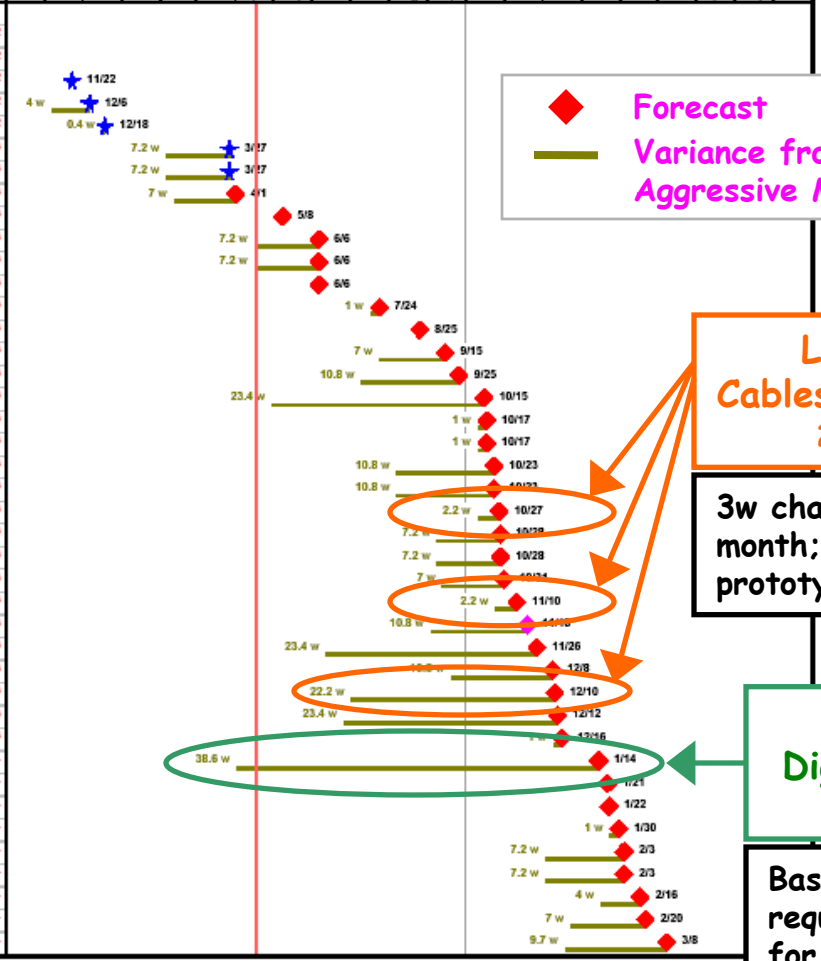
Project: Run IIb Silicon Schedule
Date: 4/17/03
Staus Date: 3/31/03

Aggressive Variance — Milestone — Critical Milestone — Completed Milestone

All Silicon Milestones - 1 Year Outlook

Run IIb Silicon Milestones
(1 year outlook - < 4/1/04)

ID	Name	Aggressive	Forecast
987	Release Of Silicon Reconstruction Code	9/12/01	9/12/01
136	First Chip Ready For Hybrid	7/8/02	7/8/02
446	Successful Readout of Hybrid With SASEQ Test Stand	8/1/02	8/1/02
437	Successful Readout Of More Than 1 Silicon Hybrid	11/25/02	11/22/02
15	Sensor Probing Equipment Setup And Certification Complete	11/6/02	12/6/02
565	Silicon Prototype Mechanical Stave Built	12/16/02	12/18/02
33	Choose L0 Silicon Sensor Technology	2/5/03	3/27/03
69	Choose L1 Silicon Sensor Technology	2/5/03	3/27/03
91	L2-L5 Silicon Sensors Released For Production	2/11/03	4/1/03
399	Silicon High-mass Cables Ready	5/8/03	5/8/03
38	L0 Silicon Sensors Released For Production	4/16/03	6/6/03
70	L1 Silicon Sensors Released For Production	4/16/03	6/6/03
846	Silicon Cylinders Released for Production	6/17/03	6/6/03
800	Successful Fabrication of an Electrical-grade Pre-production Silicon Stave	7/17/03	7/24/03
1006	Release Silicon Event Display Package	8/25/03	8/25/03
679	Begin 20cm Gang Production	7/25/03	9/15/03
138	SVX4 Released For Production	7/10/03	9/25/03
996	Release Silicon Unpacking And Translation Packages	4/30/03	10/15/03
439	Successful Readout Of Full Silicon Stave	10/10/03	10/17/03
587	Stave Shells For South Silicon Complete	10/10/03	10/17/03
194	Silicon L1 Hybrids Released For Production	8/7/03	10/23/03
358	Silicon SASEQ Test Stands Ready	8/7/03	10/23/03
147	Silicon L0 Hybrids Released For Production	10/10/03	10/27/03
41	1st L0 Silicon Sensor Delivered	9/8/03	10/28/03
71	1st L1 Silicon Sensor Delivered	9/8/03	10/28/03
97	25% L2-L5 Silicon Sensors Delivered And Tested	9/12/03	10/31/03
250	Silicon L0-L1 Digital Jumper Cables Released For Production	10/24/03	11/10/03
225	Silicon L2-L5 Hybrids Released For Production	9/3/03	11/18/03
1001	Release Silicon Examine Package	6/12/03	11/26/03
137	SVX4 Wafers Delivered	9/19/03	12/8/03
237	Silicon L0 Flex Cables Released For Production	7/2/03	12/10/03
451	Successful Readout Of Silicon Single-unit Full-chain	6/26/03	12/12/03
590	Stave Shells For North Silicon Complete	12/9/03	12/16/03
262	Silicon L2-L5 Digital Jumper Cables Released For Production	4/2/03	1/14/04
970	Temperature Monitoring System Ready To Be Installed	2/4/04	1/21/04
958	Decide On Final Radiation Monitoring System	1/22/04	1/22/04
573	Stave Cores For South Silicon Complete	1/23/04	1/30/04
42	All L0 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
72	All L1 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
413	Silicon HV System Components Ready	1/16/04	2/16/04
98	50% L2-L5 Silicon Sensors Delivered And Tested	12/23/03	2/20/04
503	Silicon Layer 0 South Mechanical Assemblies Complete	12/19/03	3/8/04



Project: Run IIb Silicon Schedule
Date: 4/17/03
Staus Date: 3/31/03

Aggressive Variance — Milestone — Critical Milestone — Completed Milestone

L0/L1 Cables/Hybrids 2.2w

3w change since last month; L0 hybrid prototype procurement

L2-L5 Digital Cables 38.6w

Baseline schedule required prod. cables for test stands; no longer true; processing change request

All Silicon Milestones - 1 Year Outlook

Run IIb Silicon Milestones
(1 year outlook - < 4/1/04)

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437	Successful Readout Of More Than 1 Silicon Hybrid	11/25/02	11/22/02
15	Sensor Probing Equipment Setup And Certification Complete	11/6/02	12/6/02
565	Silicon Prototype Mechanical Stave Built	12/16/02	12/18/02
33	Choose L0 Silicon Sensor Technology	2/5/03	3/27/03
69	Choose L1 Silicon Sensor Technology	2/5/03	3/27/03
91	L2-L5 Silicon Sensors Released For Production	2/11/03	4/1/03
369	Silicon High-mass Cables Ready	5/8/03	5/8/03
38	L0 Silicon Sensors Released For Production	4/16/03	6/6/03
70	L1 Silicon Sensors Released For Production	4/16/03	6/6/03
846	Silicon Cylinders Released for Production	6/17/03	6/6/03
800	Successful Fabrication of an Electrical-grade Pre-production Silicon Stave	7/17/03	7/24/03
1006	Release Silicon Event Display Package	8/25/03	8/25/03
679	Begin 20cm Gang Production	7/25/03	9/15/03
138	SVX4 Released For Production	7/10/03	9/25/03
996	Release Silicon Unpacking And Translation Packages	4/30/03	10/15/03
439	Successful Readout Of Full Silicon Stave	10/10/03	10/17/03
587	Stave Shells For South Silicon Complete	10/10/03	10/17/03
194	Silicon L1 Hybrids Released For Production	8/7/03	10/23/03
358	Silicon SASEQ Test Stands Ready	8/7/03	10/23/03
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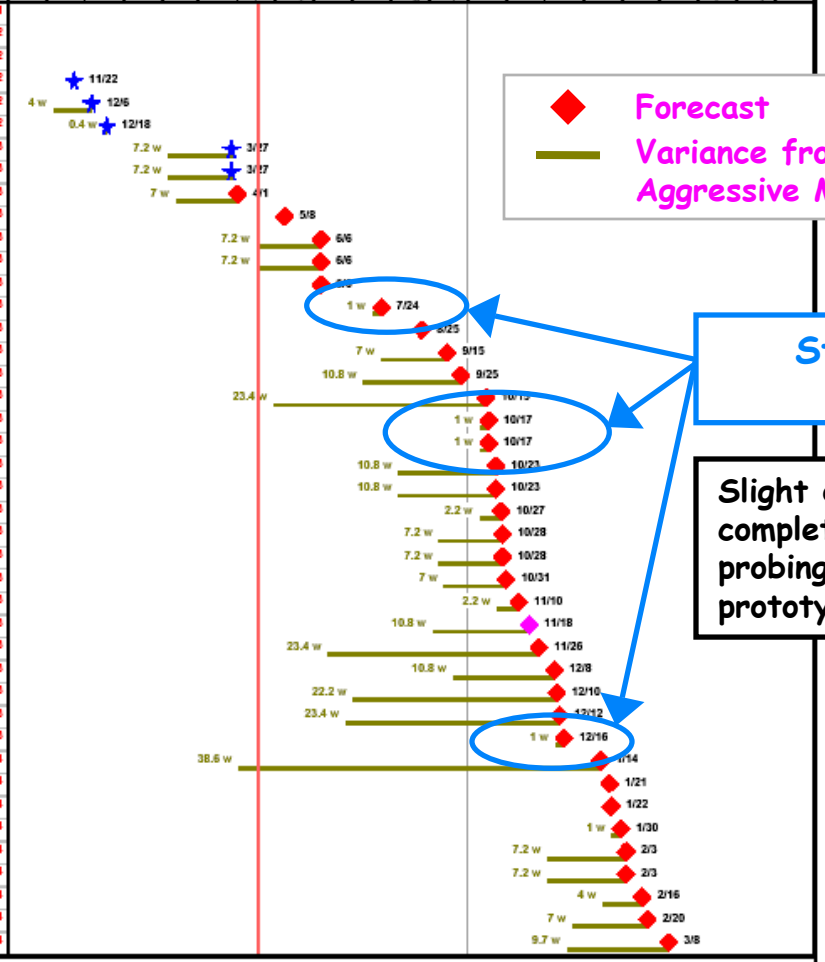
225	Silicon L2-L5 Hybrids Released For Production	9/3/03	11/18/03
1001	Release Silicon Examine Package	6/12/03	11/26/03
137	SVX4 Wafers Delivered	9/19/03	12/8/03
237	Silicon L0 Flex Cables Released For Production	7/2/03	12/10/03
451	Successful Readout Of Silicon Single-unit Full-chain	6/26/03	12/12/03
590	Stave Shells For North Silicon Complete	12/9/03	12/16/03
262	Silicon L2-L5 Digital Jumper Cables Released For Production	4/2/03	1/14/04
970	Temperature Monitoring System Ready To Be Installed	2/4/04	1/21/04
958	Decide On Final Radiation Monitoring System	1/22/04	1/22/04
573	Stave Cores For South Silicon Complete	1/23/04	1/30/04
42	All L0 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
72	All L1 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
413	Silicon HV System Components Ready	1/16/04	2/16/04
98	50% L2-L5 Silicon Sensors Delivered And Tested	12/23/03	2/20/04
503	Silicon Layer 0 South Mechanical Assemblies Complete	12/19/03	3/8/04



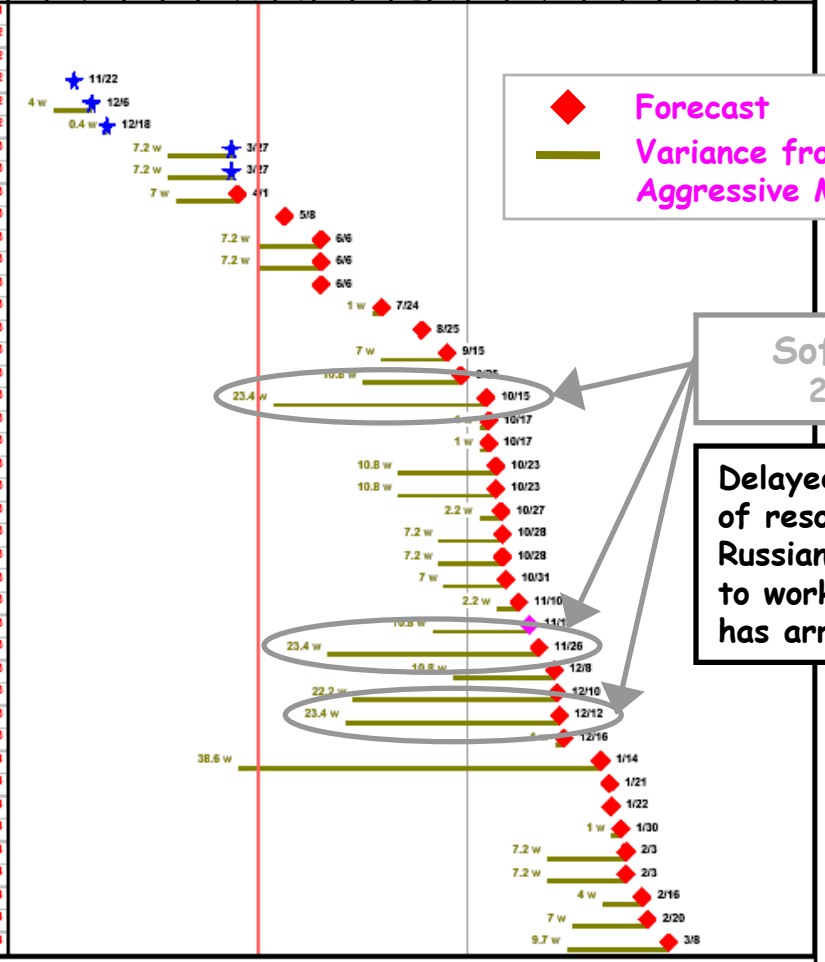
Project: Run IIb Silicon Schedule
Date: 4/17/03
Staus Date: 3/31/03

Aggressive Variance — Milestone — Critical Milestone — Completed Milestone

All Silicon Milestones - 1 Year Outlook

Run IIb Silicon Milestones
(1 year outlook - < 4/1/04)

ID	Name	Aggressive	Forecast
987	Release Of Silicon Reconstruction Code	9/12/01	9/12/01
136	First Chip Ready For Hybrid	7/8/02	7/8/02
446	Successful Readout of Hybrid With SASEQ Test Stand	8/1/02	8/1/02
437	Successful Readout Of More Than 1 Silicon Hybrid	11/25/02	11/22/02
15	Sensor Probing Equipment Setup And Certification Complete	11/6/02	12/6/02
565	Silicon Prototype Mechanical Stave Built	12/16/02	12/18/02
33	Choose L0 Silicon Sensor Technology	2/5/03	3/27/03
69	Choose L1 Silicon Sensor Technology	2/5/03	3/27/03
91	L2-L5 Silicon Sensors Released For Production	2/11/03	4/1/03
399	Silicon High-mass Cables Ready	5/8/03	5/8/03
38	L0 Silicon Sensors Released For Production	4/16/03	6/6/03
70	L1 Silicon Sensors Released For Production	4/16/03	6/6/03
846	Silicon Cylinders Released for Production	6/17/03	6/6/03
800	Successful Fabrication of an Electrical-grade Pre-production Silicon Stave	7/17/03	7/24/03
1006	Release Silicon Event Display Package	8/25/03	8/25/03
679	Begin 20cm Gang Production	7/25/03	9/15/03
138	SVX4 Released For Production	7/10/03	9/25/03
996	Release Silicon Unpacking And Translation Packages	4/30/03	10/15/03
439	Successful Readout Of Full Silicon Stave	10/10/03	10/17/03
587	Stave Shells For South Silicon Complete	10/10/03	10/17/03
194	Silicon L1 Hybrids Released For Production	8/7/03	10/23/03
358	Silicon SASEQ Test Stands Ready	8/7/03	10/23/03
147	Silicon L0 Hybrids Released For Production	10/10/03	10/27/03
41	1st L0 Silicon Sensor Delivered	9/8/03	10/28/03
71	1st L1 Silicon Sensor Delivered	9/8/03	10/28/03
97	25% L2-L5 Silicon Sensors Delivered And Tested	9/12/03	10/31/03
250	Silicon L0-L1 Digital Jumper Cables Released For Production	10/24/03	11/10/03
225	Silicon L2-L5 Hybrids Released For Production	9/3/03	11/18/03
1001	Release Silicon Examine Package	6/12/03	11/26/03
137	SVX4 Wafers Delivered	9/19/03	12/8/03
237	Silicon L0 Flex Cables Released For Production	7/2/03	12/10/03
451	Successful Readout Of Silicon Single-unit Full-chain	6/26/03	12/12/03
590	Stave Shells For North Silicon Complete	12/9/03	12/16/03
262	Silicon L2-L5 Digital Jumper Cables Released For Production	4/2/03	1/14/04
970	Temperature Monitoring System Ready To Be Installed	2/4/04	1/21/04
958	Decide On Final Radiation Monitoring System	1/22/04	1/22/04
573	Stave Cores For South Silicon Complete	1/23/04	1/30/04
42	All L0 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
72	All L1 Silicon Sensors Delivered And Tested	12/3/03	2/3/04
413	Silicon HV System Components Ready	1/16/04	2/16/04
98	50% L2-L5 Silicon Sensors Delivered And Tested	12/23/03	2/20/04
503	Silicon Layer 0 South Mechanical Assemblies Complete	12/19/03	3/8/04



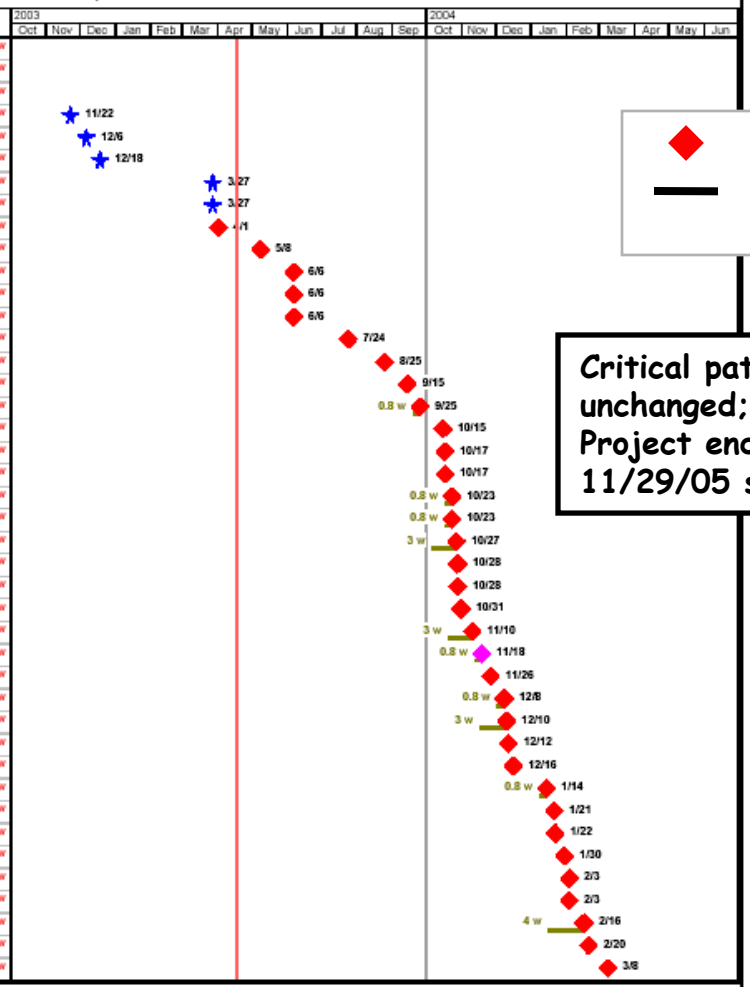
Project: Run IIb Silicon Schedule
Date: 4/17/03
Staus Date: 3/31/03

Aggressive Variance — Milestone — Critical Milestone — Completed Milestone

Last Month/This Month - Silicon Forecasts

Run IIb Silicon Milestones - Feb03-Mar03 Comparison
(1 year outlook - <4/1/04)

ID	Name	Last Month	Forecast	Variance
987	Release Of Silicon Reconstruction Code	9/12/01	9/12/01	0 w
136	First Chip Ready For Hybrid	7/8/02	7/8/02	0 w
446	Successful Readout of Hybrid With SASEQ Test Stand	8/1/02	8/1/02	0 w
437	Successful Readout Of More Than 1 Silicon Hybrid	11/22/02	11/22/02	0 w
15	Sensor Probing Equipment Setup And Certification Complete	12/6/02	12/6/02	0 w
565	Silicon Prototype Mechanical Stave Built	12/18/02	12/18/02	0 w
33	Choose L0 Silicon Sensor Technology	4/4/03	3/27/03	-1.2 w
69	Choose L1 Silicon Sensor Technology	4/4/03	3/27/03	-1.2 w
91	L2-L5 Silicon Sensors Released For Production	4/1/03	4/1/03	0 w
399	Silicon High-mass Cables Ready	5/8/03	5/8/03	0 w
38	L0 Silicon Sensors Released For Production	6/16/03	6/6/03	-1.2 w
70	L1 Silicon Sensors Released For Production	6/16/03	6/6/03	-1.2 w
846	Silicon Cylinders Released for Production	6/6/03	6/6/03	0 w
800	Successful Fabrication of an Electrical-grade Pre-production Silicon Stave	7/24/03	7/24/03	0 w
1006	Release Silicon Event Display Package	8/25/03	8/25/03	0 w
679	Begin 20cm Gang Production	9/15/03	9/15/03	0 w
138	SVX4 Released For Production	9/19/03	9/25/03	0.8 w
996	Release Silicon Unpacking And Translation Packages	10/16/03	10/15/03	-0.2 w
439	Successful Readout Of Full Silicon Stave	10/17/03	10/17/03	0 w
587	Stave Shells For South Silicon Complete	10/17/03	10/17/03	0 w
194	Silicon L1 Hybrids Released For Production	10/17/03	10/23/03	0.8 w
368	Silicon SASEQ Test Stands Ready	10/17/03	10/23/03	0.8 w
147	Silicon L0 Hybrids Released For Production	10/6/03	10/27/03	3 w
41	1st L0 Silicon Sensor Delivered	11/5/03	10/28/03	-1.2 w
71	1st L1 Silicon Sensor Delivered	11/5/03	10/28/03	-1.2 w
97	25% L2-L5 Silicon Sensors Delivered And Tested	10/31/03	10/31/03	0 w
250	Silicon L0-L1 Digital Jumper Cables Released For Production	10/20/03	11/10/03	3 w
225	Silicon L2-L5 Hybrids Released For Production	11/12/03	11/18/03	0.8 w
1001	Release Silicon Examine Package	12/1/03	11/26/03	-0.2 w
137	SVX4 Wafers Delivered	12/2/03	12/8/03	0.8 w
237	Silicon L0 Flex Cables Released For Production	11/17/03	12/10/03	3 w
451	Successful Readout Of Silicon Single-unit Full-chain	12/15/03	12/12/03	-0.2 w
590	Stave Shells For North Silicon Complete	12/16/03	12/16/03	0 w
262	Silicon L2-L5 Digital Jumper Cables Released For Production	1/8/04	1/14/04	0.8 w
970	Temperature Monitoring System Ready To Be Installed	1/21/04	1/21/04	0 w
958	Decide On Final Radiation Monitoring System	1/22/04	1/22/04	0 w
573	Stave Cores For South Silicon Complete	1/30/04	1/30/04	0 w
42	All L0 Silicon Sensors Delivered And Tested	2/11/04	2/3/04	-1.2 w
72	All L1 Silicon Sensors Delivered And Tested	2/11/04	2/3/04	-1.2 w
413	Silicon HV System Components Ready	1/16/04	2/16/04	4 w
98	50% L2-L5 Silicon Sensors Delivered And Tested	2/20/04	2/20/04	0 w
503	Silicon Layer 0 South Mechanical Assemblies Complete	3/8/04	3/8/04	0 w



Forecast

Variance from last month

Critical path remains unchanged; SVX4 driving it; Project end date slipped 4d to 11/29/05 since last month

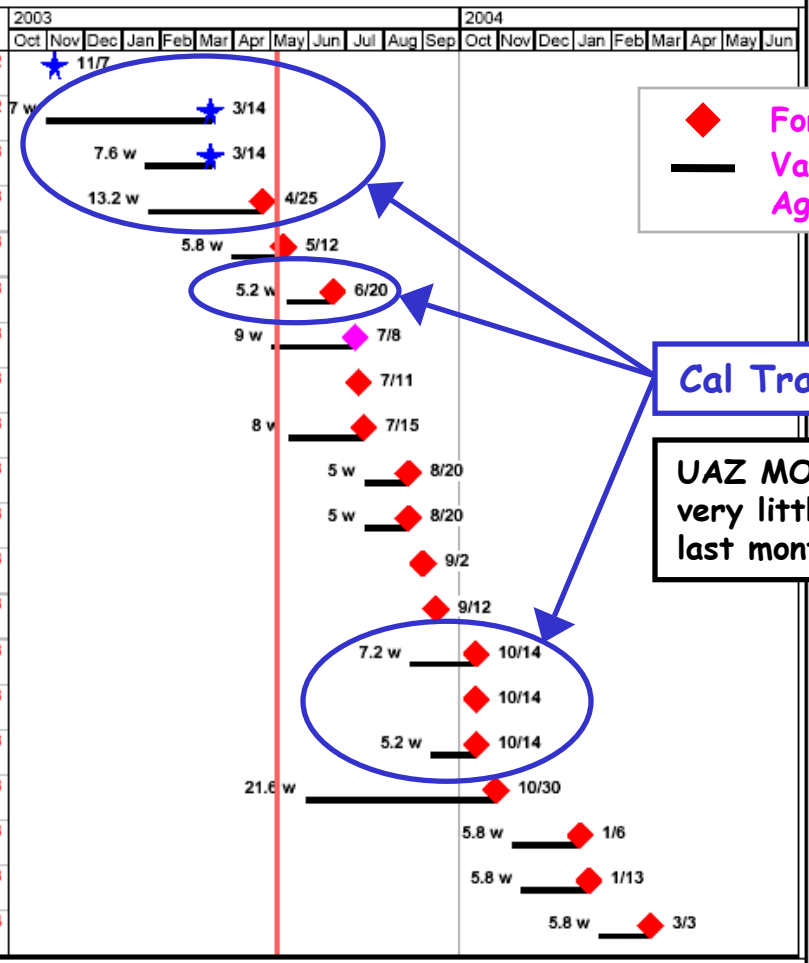
Project: Run IIb Silicon Schedule
Date: 4/17/03
Staus Date: 3/31/03

Monthly Variance — Milestone — Critical Milestone — Completed Milestone

All Trigger Milestones - 1 Year Outlook

Run IIb Trigger Milestones
(1 Year Outlook, < 4/1/04)

ID	Name	Aggressive
170	Prototype L1 Central Track Trigger Algorithm Coded And Simulated With FPGA Simulation Tools	11/12/02
118	L1 Trigger Cal-Trk Match R&D MOU (UAZ) Complete	11/1/02
119	L1 Trigger Cal-Trk Match Equipment MOU (UAZ) Complete	1/21/03
115	D0 Internal Design Review Complete	1/23/03
271	Place Parts Orders for L2 Silicon Track Trigger	4/1/03
146	Fabrication and Assembly of L1 Trigger Cal-Trk Match Prototype MTFB Complete	5/14/03
9	Prototype L1 Calorimeter Trigger ADF Shipped To Fermilab	5/2/03
174	Target L1 Central Track Trigger Algorithm Firmware Coded And Simulated With FPGA Simulation Tools	7/17/03
49	L1 Calorimeter Trigger TAB Prototype Complete	5/16/03
67	L1 Calorimeter Trigger GAB Prototype Complete	7/16/03
92	L1 Calorimeter Trigger TAB/GAB Prototyping Complete	7/16/03
274	L2 Silicon Track Trigger Run IIb Inputs Finalized	9/2/03
295	VTM Production Complete for L2 Silicon Track Trigger	9/15/03
128	Fabrication and Assembly of L1 Trigger Cal-Trk Match Preproduction MTCxx Complete	8/22/03
138	Fabrication and Assembly of L1 Trigger Cal-Trk Match MTCM's Complete	10/20/03
151	Fabrication and Assembly of L1 Trigger Cal-Trk Match MTFB's Complete	9/8/03
35	L1 Calorimeter Trigger ADF+Crate Prototype Complete	5/29/03
345	L2 Silicon Track Trigger Fiber Procurement Complete	11/13/03
340	L2 Silicon Track Trigger Splitter Procurement Complete	11/20/03
331	L2 Silicon Track Trigger Hotlink Repeaters Complete	1/22/04



Forecast

Variance from Aggressive Milestone

Cal Track Match

UAZ MOU now in place; very little slippage since last month.

Project: Run IIb trigger Schedule
Status Date: 3/31/03
Print Date: 5/6/03

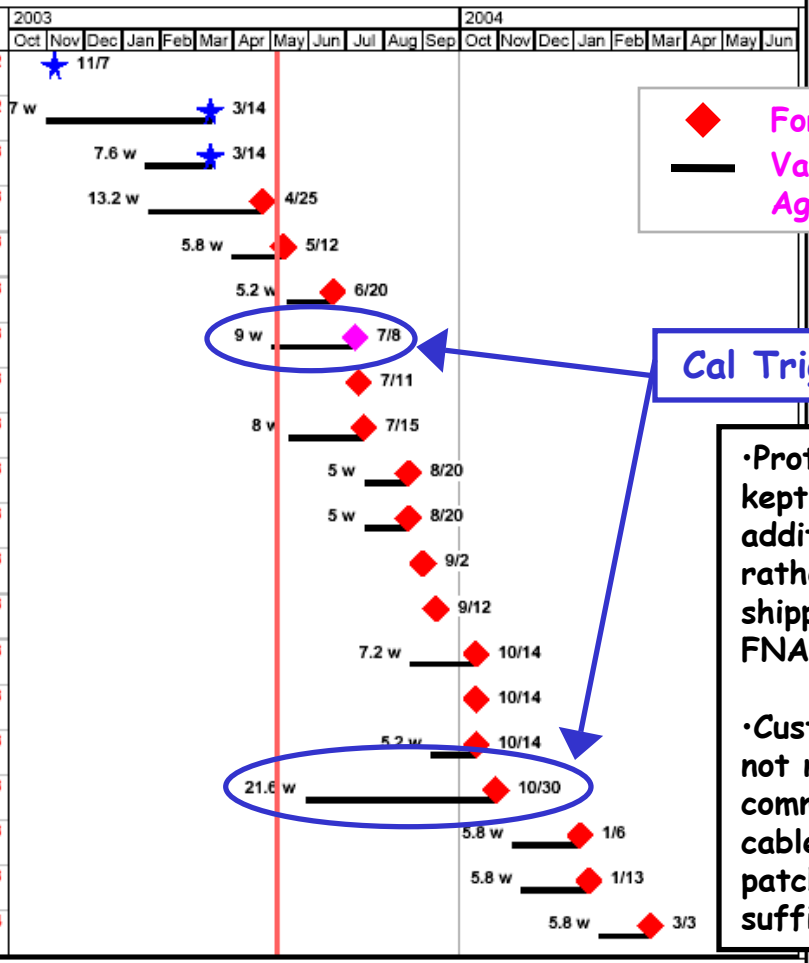
Aggressive Variance — Critical Milestone

Milestone — Completed Milestone

All Trigger Milestones - 1 Year Outlook

Run IIb Trigger Milestones
(1 Year Outlook, < 4/1/04)

ID	Name	Aggressive
170	Prototype L1 Central Track Trigger Algorithm Coded And Simulated With FPGA Simulation Tools	11/12/02
118	L1 Trigger Cal-Trk Match R&D MOU (UAZ) Complete	11/1/02
119	L1 Trigger Cal-Trk Match Equipment MOU (UAZ) Complete	1/21/03
115	D0 Internal Design Review Complete	1/23/03
271	Place Parts Orders for L2 Silicon Track Trigger	4/1/03
146	Fabrication and Assembly of L1 Trigger Cal-Trk Match Prototype MTFB Complete	5/14/03
9	Prototype L1 Calorimeter Trigger ADF Shipped To Fermilab	5/2/03
174	Target L1 Central Track Trigger Algorithm Firmware Coded And Simulated With FPGA Simulation Tools	7/17/03
49	L1 Calorimeter Trigger TAB Prototype Complete	5/16/03
67	L1 Calorimeter Trigger GAB Prototype Complete	7/16/03
92	L1 Calorimeter Trigger TAB/GAB Prototyping Complete	7/16/03
274	L2 Silicon Track Trigger Run IIb Inputs Finalized	9/2/03
295	VTM Production Complete for L2 Silicon Track Trigger	9/15/03
128	Fabrication and Assembly of L1 Trigger Cal-Trk Match Preproduction MTCxx Complete	8/22/03
138	Fabrication and Assembly of L1 Trigger Cal-Trk Match MTCM's Complete	10/20/03
151	Fabrication and Assembly of L1 Trigger Cal-Trk Match MTFB's Complete	9/8/03
35	L1 Calorimeter Trigger ADF+Crate Prototype Complete	5/29/03
345	L2 Silicon Track Trigger Fiber Procurement Complete	11/13/03
340	L2 Silicon Track Trigger Splitter Procurement Complete	11/20/03
331	L2 Silicon Track Trigger Hotlink Repeaters Complete	1/22/04



Forecast

Variance from Aggressive Milestone

Cal Trigger ADF

- Prototype ADF kept at Saclay for additional testing, rather than shipped early to FNAL
- Custom backplane not needed, commercial crate, cable harness, and patch panel sufficient

Project: Run IIb trigger Schedule
Status Date: 3/31/03
Print Date: 5/6/03

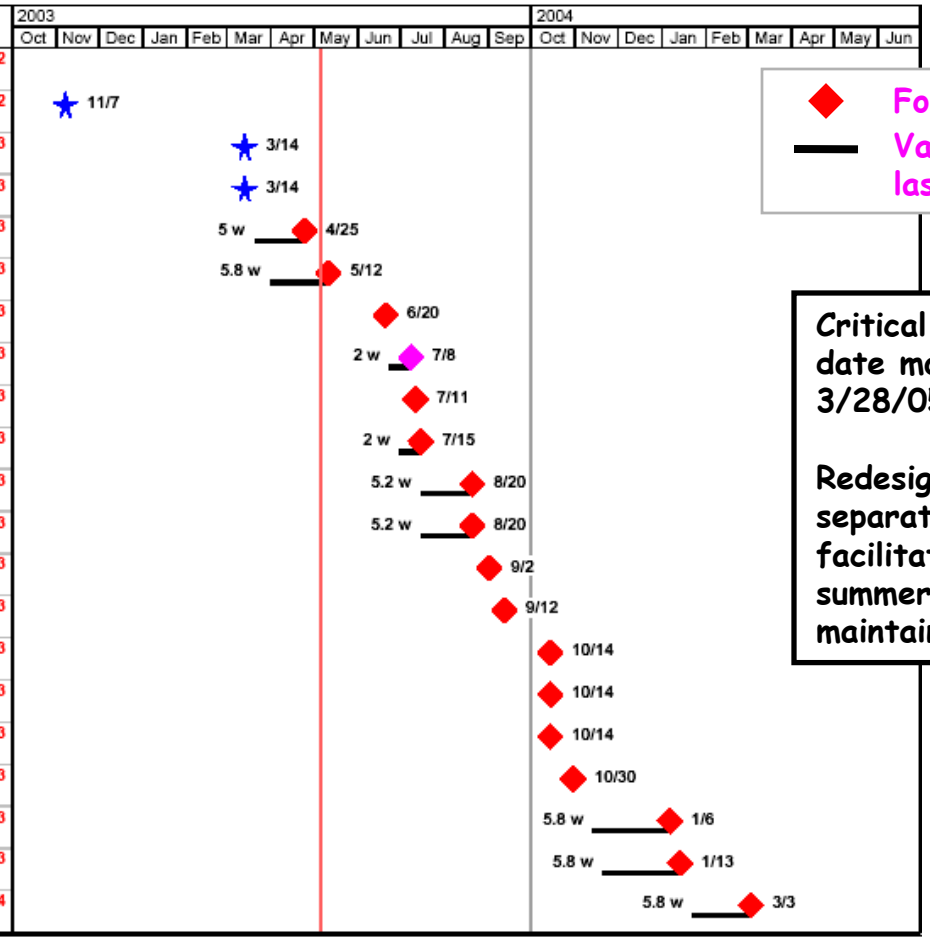
Aggressive Variance — Critical Milestone

Milestone — Completed Milestone

Last Month/This Month - Trigger Forecasts

Run IIb Trigger Milestones - Feb03-Mar03 Comparison
(1 Year Outlook - < 4/1/04)

ID	Name	Last Month
42	Choose L1 Calorimeter Trigger Baseline Jet Algorithm	8/8/02
170	Prototype L1 Central Track Trigger Algorithm Coded And Simulated With FPGA Simulation	11/7/02
118	L1 Trigger Cal-Trk Match R&D MOU (UAZ) Complete	3/14/03
119	L1 Trigger Cal-Trk Match Equipment MOU (UAZ) Complete	3/14/03
115	D0 Internal Design Review Complete	3/21/03
271	Place Parts Orders for L2 Silicon Track Trigger	4/1/03
146	Fabrication and Assembly of L1 Trigger Cal-Trk Match Prototype MTFB Complete	6/27/03
9	Prototype L1 Calorimeter Trigger ADF Shipped To Fermilab	6/23/03
174	Target L1 Central Track Trigger Algorithm Firmware Coded And Simulated With FPGA	7/11/03
49	L1 Calorimeter Trigger TAB Prototype Complete	6/30/03
67	L1 Calorimeter Trigger GAB Prototype Complete	7/15/03
92	L1 Calorimeter Trigger TAB/GAB Prototyping Complete	7/15/03
274	L2 Silicon Track Trigger Run IIb Inputs Finalized	9/2/03
295	VTM Production Complete for L2 Silicon Track Trigger	9/15/03
128	Fabrication and Assembly of L1 Trigger Cal-Trk Match Preproduction MTCxx Complete	10/14/03
138	Fabrication and Assembly of L1 Trigger Cal-Trk Match MTCM's Complete	10/14/03
151	Fabrication and Assembly of L1 Trigger Cal-Trk Match MTFB's Complete	10/21/03
35	L1 Calorimeter Trigger ADF+Crate Prototype Complete	10/30/03
345	L2 Silicon Track Trigger Fiber Procurement Complete	11/13/03
340	L2 Silicon Track Trigger Splitter Procurement Complete	11/20/03
331	L2 Silicon Track Trigger Hotlink Repeaters Complete	1/22/04



Project: Run IIb trigger Schedule
Date: 5/6/03
Staus Date: 3/31/03

Monthly Variance — Critical Milestone
Milestone — Completed Milestone

Forecast
Variance from last month

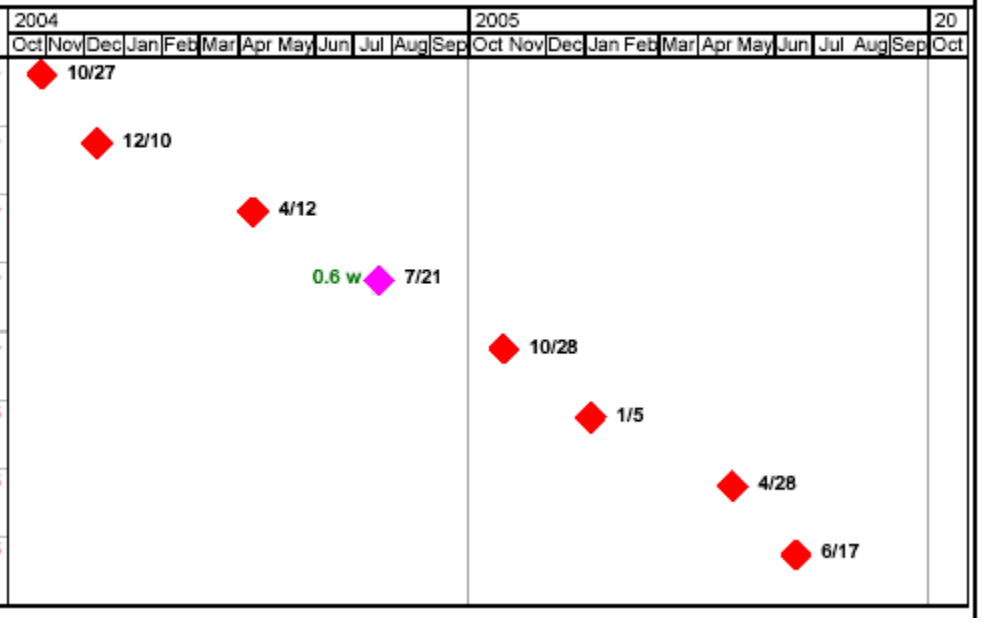
Critical path/project end date moved slightly from 3/28/05 to 4/11/05

Redesign of GAB into separate boards; Will facilitate testing this summer; allows us to maintain schedule

All Online Milestones

Run IIb Online Milestones

ID	Name	Aggressive
124	DAQ HOST Secondary System Active	10/27/03
148	Secondary File Server Active	12/10/03
136	Development ORACLE System Active	4/12/04
106	RAID Array Active	7/16/04
129	DAQ HOST Primary System Active	10/28/04
153	Primary File Server Active	1/5/05
141	Production ORACLE System Active	4/28/05
154	Online System Production and Testing Complete	6/17/05



- No changes since last month
- No variance from aggressive schedule

Cobra Issues

- Errors loading monthly status
  - Errors occurred indicating invalid "percent completes" were being read in (e.g.<0 or > 100)
  - Inspecting input data file does not show this to be the case
  - Working with Welcom consultants to resolve the problem.
  - Patch available to version 4 that allows the file to be read in without errors. (FNAL uses version 3.6) Upgrade to v4 planned for July.
  - Proposed interim fix is to use transaction file (text file) as input. Yet to be tried. Working with Dean Hoffer and consultants to determine what exactly needs to be in that file, format it properly, test it, etc.
- Concerns about content of CPR reports, forecasts, variances
- Cobra is powerful, but requires good understanding to be confident of results (586 page users manual!)

Summary

- Continuing to manage to the "aggressive" schedule
  - Forecast completion date slipped slightly since last month to November 29, 2005; EIR/DOE schedule finish May 25, 2006
  - Regularly reviewing schedule to optimize the plan
    - Looking at variances from aggressive schedule
    - Month-to-month differences in forecasts
    - Variance wrt DOE baseline dates
  - Not yet in danger of missing any DOE/Director's milestones
- COBRA Issues
  - Difficulties/errors when trying to load monthly status ("percent completes") especially for silicon schedule file.
  - Difficulties understanding CPR output (forecast results, variances, etc.)
  - Working with Hoffer and Welcom consultants to try to resolve the problems.