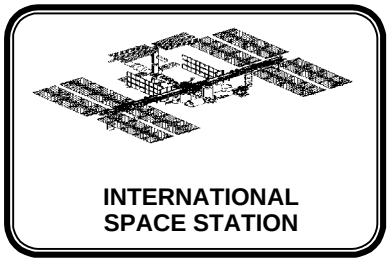


International Space Station

Schedules Review

February 25, 2000

DSSICB

Stage 2A.1 Summary

Date: 2/24/00

Increment Day: 470

CST: 1100

Next ISS mission: 2A-2A – Date 4/13 (NET)

GMT: 055/1700

Beta angle: 11.3° (mag. decreasing)

GN&C/PROP

Altitude:
HA – 371.3 km
HP – 361.8 km

Attitude: X Nadir Spin
Spin Rate: 0.38 deg/sec (Estimate by MCC-M)
Prop Avail.: 893 liters fuel, 912 liters oxidizer
System Config: MCS off

Anomalies: None

ECLS

Pressure:	Node	646 mmHg
	FGB GA	740 mmHg
	FGB PGO	772 mmHg
Air Temp:	FGB GA	21°C
	FGB PGO	23°C

System Config.:
- Smoke detectors 2 and 8 are powered off.

Anomalies: None

TCS

	Avg Temp °C	Trend	HTR Status
MDM	-6.8/-15.0	decreasing	ENA
PMA-1	6.6	decreasing	N/A
PMA-2	-7.0	steady	N/A
N1 Shell	1.3	decreasing	N/A
RPCM (on)	8.0	steady	N/A
FGB Shell	18		
FGB Rad	-46		

System Config:
- All shell heaters inhibited.

Anomalies: None

EPS

USOS Power: 370 Watts (410 allocated)

FGB Batts	1 – N/A V	4 – 28.6 V
	2 – N/A V	5 – N/A V
	3 – 28.4 V	6 – 28.4 V

System Config:
- Batteries 3, 4, 6 in incomplete charge mode
- Batteries 1, 2, and 5 are off line
- Batteries 1 and 5 in CRM

Anomalies: None

C&T

Antenna Temp °C

Port:	min:	-5	max:	22
Stbd:	min:	-27	max:	-5
(limits	min:	-40	max:	79)

CTP Temp °C:	min:	21	max:	25
Portcomm Temp °C:	min:	38	max:	41
(limits	min:	-32	max:	56)

Node 1 Heater Zone 7 Temp °C

	24 hour low/hi
Zone 7A-2	3.7/8.1
Zone 7B-2	3.7/8.0

Commands Passed: 39
Antenna in use: Port Array, Single Antenna Auto

Anomalies: None

C&DH

S/W Version: 1.8.4
Telemetry:1.1N Version 7
Load Shed PPL Version 2

Command Accepted Counter:	4208
Command Response Counter:	259
Data Load Accepted Counter:	2467
Data Load Response Counter:	63
Pri. NCS MDM CPU Usage Avg:	21.07%
Sec. NCS MDM CPU Usage Avg:	9.97%

System Config: N1-2 P, N1-1 S, FGB 2 on

Anomalies: None

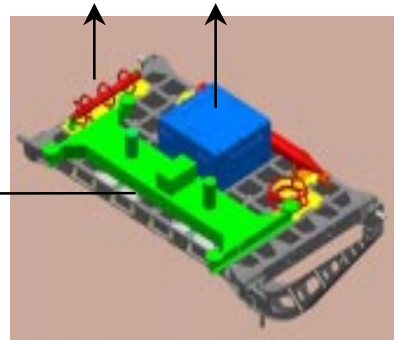
Significant Events:

- None

International Space Station
Flight 2A.2a (STS-101)
FGB Maintenance & Repair

Spacehab used to transport items on Logistics flights (Spacehab Inc)

Status as of: 02/24/00
Assembly Sequence, Rev. E



Integrated Cargo Carrier (ICC)

Acronym List	
CIR	Cargo Integration Review
COFR #1	Certificate of Flight Readiness #1
COFR #2	Certificate of Flight Readiness #2
FPSR	Flight Planning and Stowage Review
FOR	Flight Operations Review
FRR	Flight Readiness Review
IDRD	Increment Definition & Requirements Document
SHAB	Spacehab
SHOSS Box	SHAB Oceaneering Space Science
SOAR	SIGI Orbital Attitude Readiness DTO

TVIS O/D SHAB 8/31
9/24
Strela On-Dock @ SHAB 9/20
11/1
SHAB Bench Review 11/30
12/8-12/10
SHAB Bench Review 1/12
SHAB O/D KSC 3/16
FRR 3/30
LPRR CoFR 1 3/2
SORR CoFR 2 3/24
2A.2a Launch 4/13

J	J	A	S	O	N	D	J	F	M	A
1999							2000			

Flight 2A.2a Health Summary
For Week of 02/26/00

Team	Tech	Sched	Remarks
Flight 2A.2a Overview	Y	Y	
GFE	Y	G	**Tech: Options and contingency plan are being evaluated through EVA and Training. New technical concern for toxic residue from FGB jet plume.**
Russian Hardware	G	G ↓	**Tech: Russian have given a preliminary go on Strela Location** **Sched: Strela is the only remaining planned Russian delivery. Still working visa problems**
ORU Spares/Propositioned	G	G	
Software	G	G	
Shuttle Integration	G	G	
Stowage Integration	G	G	Tech: Stowage can accommodate volumetric transfers and VIPeR is working with Russians on mass limits. Flight CG is slightly exceeding requirements but is workable. Russian preliminary evaluation of mass transfer numbers expected 3/10/00.
Safety	Y	Y	**Tech & Sched:** Expect burndown plan for Russian certification of US hardware after Safety TIM that is scheduled for 2/14 - 2/28**. Received 27 of the 31 Russian SDPs: 17 are closed, 2 received and 2 approved this week.**
Operations	G	Y	Tech: MOD is working to support a non-split mission for launch in 6/00. Carrying split/non-split options requires extra, parallel work. Crew assignment and training are the critical path items. With original (2A.2) crew, MOD can support the launch date with no schedule margin. With crew change, minimum training time has been evaluated to be 13 weeks (based on certain crew member assumptions).

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative recovery plan. Open issues do not have recovery plans
Tech: Does not meet requirements and does not have margin with critical path impact.

▲ **Improving** ▼ **Worsening**

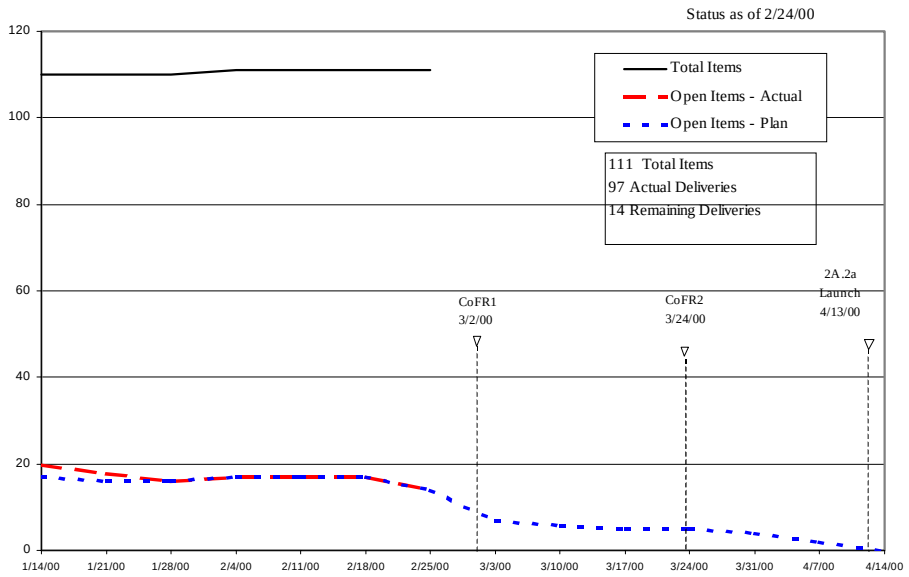
Flight 2A.2a (STS-101) Performance to Plan

Week of 02/20/00 - 02/26/00

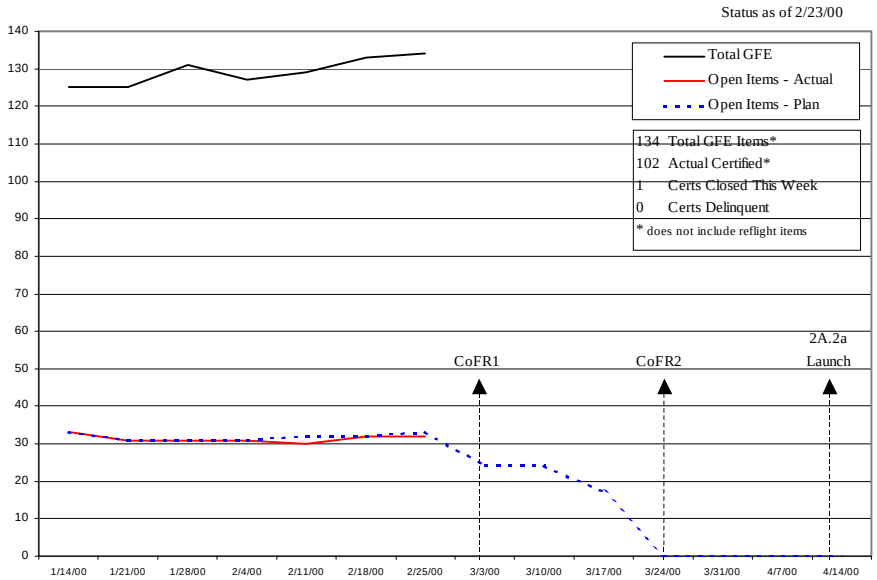
Ref	*		Lvl	Baseline	Current	Actual
		GFE/ Assy Hardware				
1		Water Transfer Equipment on-dock at USA FCE/EVA for Bench Review		3/1/00	3/1/00	at USA FCE/EVA
2		Grab Sample Containers (9) on-dock at USA FCE/EVA for Bench Review		3/1/00	3/1/00	
3		ESEL Tools & ESEL EMUs on-dock at USA FCE/EVA for Bench Review		3/1/00	3/1/00	
4		Exterior Screen, MRK on-dock at USA FCE/EVA for Bench Review		3/1/00	3/1/00	
5		IP Clamps on-dock at USA FCE/EVA for Bench Review		3/1/00	3/1/00	
6		Locker Items (AC Power Cables - 51', 44', 35', 30' & Audio/Video IF 44')		3/1/00	3/1/00	
7		CBM Centerline Camera on-dock at USA FCE/EVA		3/6/00	3/6/00	
		Late Load Deliveries				
8		CO2 Monitor Kit (CDMK) on-dock at SHAB		3/30/00	3/30/00	at USA FCE/EVA
9		Passive Dosimeter System on-dock at KSC		4/3/00	4/3/00	
10		Formaldehyde Monitoring Kit on-dock at SHAB		4/6/00	4/6/00	
11		SODF on-dock at KSC		4/11/00	4/11/00	
12		Contigency Maintenance on-dock at KSC		4/11/00	4/11/00	
		Russian Hardware				
13		800A Storage Battery delivered to SHAB		~~2/7/00~~ 2/22/00	~~2/7/00~~ 2/22/00	2/21/00
14		RTS Memory Unit delivered to SHAB		~~2/7/00~~ 2/22/00	~~2/7/00~~ 2/22/00	2/21/00
15		Fungistat Kits delivered to SHAB		~~2/7/00~~ 2/22/00	~~2/7/00~~ 2/22/00	2/21/00
16		Strela Cargo Crane delivered to SHAB		2/29/00	2/29/00	
		Shuttle Integ/Mission Ops				
17		Spacehab Module Bench Review		2/25/00	2/25/00	

2A.2a OPEN ITEMS CHART

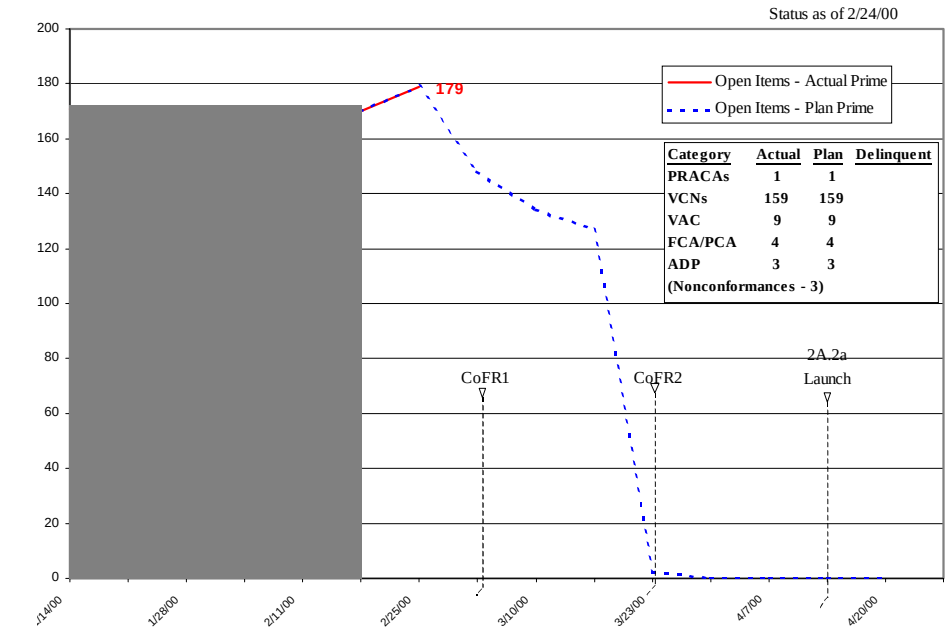
2A.2a Hardware Delivery Burndown



2A.2a GFE Certification Burn-Down

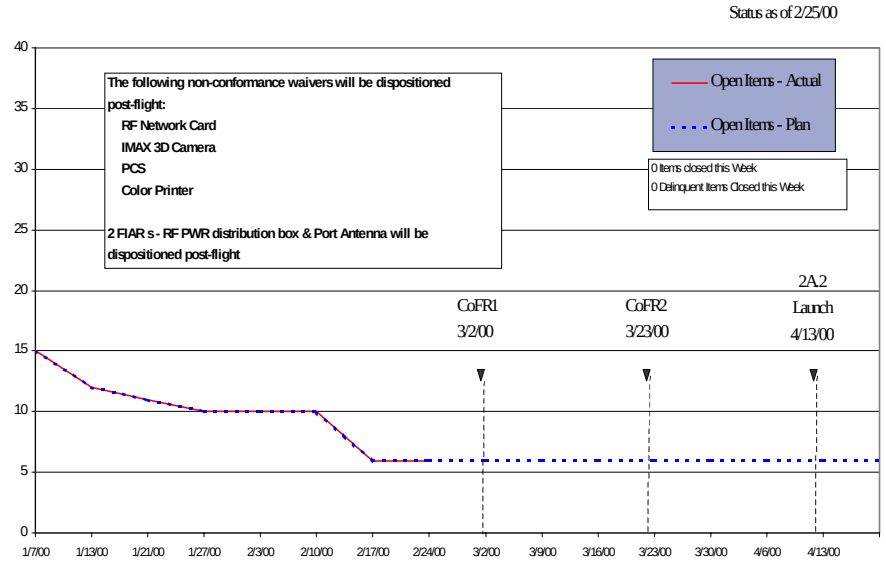


2A.2a Prime Burn-Down



2A.2a Miscellaneous Open Items Burn-Down

(PRACA/FIAR, RIDs/Design Review Actions, Waivers, KSC PRs, GIP Actions, Risks, & Non-Conformances)



2A.2a OPEN ITEMS SUMMARY

	Open Paper	Total Open Items 2/25/00	Total Open Items 2/18/00	Total Open Items 2/11/00	Total Open Items 2/4/00	Total Open Items 1/28/00	Beginning Total	Comments
Stage Verification								
1	SIR/SAR Issues	0	0	0	0	0	0	N/A
2	DVO/VLNs	0	0	0	0	0	0	
3	VCNs	159	0	0	0	0	159	
End Item Verification								
4	CDR Issues	0	0	0	0	0		
5	FCA/PCA Planning	0	0	0	0	0		
6	FCA/PCA Closures	0	0	0	0	0		
7	FCA/PCA/AR Issues	4	0	0	0	0	1	Software items moved to 2A.2b
8	RIDs/Design Review Actions	0	0	1	1	1	1	TVIS - closed, GCAR signed 2/14/00
9	Engr. Releases	0	0	0	0	0		
10	Acceptance Test Reports	0	0	0	0	0		
11	Crew Squawks	0	0	0	0	0		
12	Non-Conformances	3	0	0	0	0		
13	PRACA/FIAR	3	3	*9	*9	*8	9	*1 Shuttle open FIAR for color printer assy - not applicable to Station; 2 ECOMM - ECD: Post flight; 1 Boeing PRACA/FIAR
14	Waivers	0	0	0	0	0	0	
15	SCANs, GIDEPS	0	0	0	0	0	0	
16	ADP's in work	3	0	0	0	0	0	
17	S/W PRs	0	0	0	0	0	0	
18	VTLs	0	0	7	7	*7	7	
19	CILs	0	0	0	0	0		
20	Hazard Reports	0	0	0	0	0	0	
21	Open Certs	32	32	30	31	31	134	Russian (0 received, 0 approved, 17 SDP/reflight letters closed, and 28 of 32 SDP/reflight letters received)
22	Safety NCRs/Review Items	0	0	0	0	0	0	
23	AOEs	0	0	0	0	0	0	
24	Risks (Flight Specific)	0	0	0	0	0	0	
	TOTAL	204	35	47	48	47	262	
Mission Integration								
25	Risks (Generic)	0	0	0	0	0	0	
26	VAC 2A.2 Products	9	0	0	0	0	10	
27	PIRNs/TBDs/ICDs	*0	*0	*0	*0	*0	1	*1 PIRN open for deployment of IRED
28	GIP Actions	0	0	0	0	0	0	
29	GFE Specification Changes	0	0	0	0	0	0	
30	Remaining Deliveries	14	17	16	16	16	111	
31	KSC PR's	0	0	4	0	0	5	All KSC PRs closed 2/10/00
Stage Issues Affect. 2A.2								
32	CHITs	0	0	0	0	0		
33	Funnies	0	0	0	0	0		
34	Anomalies	0	0	0	0	0		
35	Stage PRACAs	0	4	*3	*3	*3	3	
36	Non-Conformances	4	4	4	4	4	4	A Tactical Planning Comment form has been submitted to add labeling to 2R crew's task list with IDRD CR iteration
	TOTAL	231	60	74	71	70	396	

37	Remaining US SDPs Submittal to Russia	10	15	77	77		305	US H/W used in Russian segments
38	US Functional Data Submittals to Russia	16	16				76	US H/W used in Russian segments
39	Remaining Russian Approvals	304	305	196	196		305	US H/W used in Russian segments

International Space Station
Flight 1R
Service Module

Status as of 2-24-00
Rev E Mod Assembly Sequence

N	D	J	F	M	A	M	J	J	A	S	O
1999		2000									

1R Service Module Flight Article

SCHEDULE HEALTH
GREEN

GDR 2-11

SMAR 5-30

Final GDR 6-8

SORR 6-16

3-31 Elec. Regression & Integrated Modes Testing

CEIT/SVS Target Survey/ Weight & CG Measurement 3-31 TBD

Vacuum Chamber Test TBD

Final Operations 6-1 6-28

Upper Stage Assembly & Test 6-28 7-3

Upper Stage Mating 7-3

Launch Pad Processing 7-4 7-8

Proposed Rev. E + Launch ~~7-17 (B) 11-12~~ 7-8 7-14

SM at KIS Facility

2R Launch 10-30

- Flight Software

Flt S/W Release (FQT) 11-30

Flight S/W (4.30.12) 2-18

- Stage Verification Tests

4 Box Test (M) 12-17

5A Stage Integration (H) TBD

- Proton # 39801

Engines to KhSC TBD

Fab Complete TBD

Ship to Baikonur TBD

FWD End of SM (Transfer Compartment)

Launch Package Planner: T. Duggan 281-244-8277
Launch Package Manager: J. Stille 281-244-8276

Flight 1R Health Summary

Team	Tech	Sched	Remarks
Flight 1R Overview	Y	↑ Y	**Tech:** Successful Proton launch on February 12th (Unmodified) **Sched:** Service Module launch window of July 8th through July 14th
Service Module (FA)	G	G	**Tech:** CEIT late April and SVS target survey in May **Sched:** Electrical regression and integration testing continues
Complex Stand	G	G	**Tech:** Parametric acoustics test in mid March **Sched:** Integrated Mode 4 regression testing completion expected this weekend
Software	↑ Y	↑ Y	**Tech:** Update flight load for antenna commands to ground **Sched:** **Flight Software version 4.32.00 in work**
GFE	G	G	**Tech:** Installation & checkout of IBMP TVIS trainer successfully completed **Sched:** GCTC treadmill installed last week
Stage Integration/Tests	G	G	**Tech:** All tests conducted - synchronization issue not a constraint to 1R launch **Sched:** **1R-4A Regression stage verification testing - March**
Safety	↑ Y	G	**Tech:** JARSWG planned for 3-20-00 to 3-31-00 in Moscow **Sched:** **SFOG Hazard Report accepted by SRP on Feb 16th, Windows discussion at TIM 25**
Russian Segment Trainer S/W Models	G	G	**Tech:** SM3 S/W models installed **Sched:** **RST model integration for 5A with Russian support - March**
Mission Operations	Y	G	**1)** Working to implement use of sound suppression devices for short term (Expedition 1 Crew). Long term fixes are still in development (SRP-I-45-14) **2)** MOD is working EVA issues associated with SM window debris pane (SRP-I-464). **3)** SM data collection complete for all systems except OCS (OICP Risk 2014). Will glean this data from OCS procedures.

G — Schedule: Zero or positive margin; Tech: Meets technical requirements; No significant issues

Y — Schedule: Negative margin with approved recovery plan with no impact to critical path; Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R — Schedule: Negative margin without recovery plan or negative margin with critical path impact. Tech: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

Last week's color → G Y ↑ **Improving** ↓ **Worsening**

DSSICB: 2-25-00

1R Top Issues & Concerns

Status as of 2-24-00

- PROTON
  - Successful launches (2) of modified Proton
- FLIGHT ARTICLE
  - Windows - Inner pane survivability with loss of outer pane (TIM #25)
    - Risk 3475
    - Hazard Report RSCE-0022-01
  - SFOG
    - Risk 3638
    - Hazard Report accepted at 2-16 SRP
  - Acoustics - Complete testing, implementation of modifications
    - Risk 3774 & 2220, NCR
    - Hazard Report RSCE-0012-6 & 0012-9A.1
  - Depressurization - Energia report, NCR
    - Risk 1674
  - Laptops - Numbers and Location
  - SM MM/OD Augmentation Shields (TIM #25)
    - Risk 1709
  - R9-01 Compliance Closure Matrix (TIM #25)

1R Accomplishments/Significant Upcoming Events

Status as of 2-24-00

ACCOMPLISHMENTS:

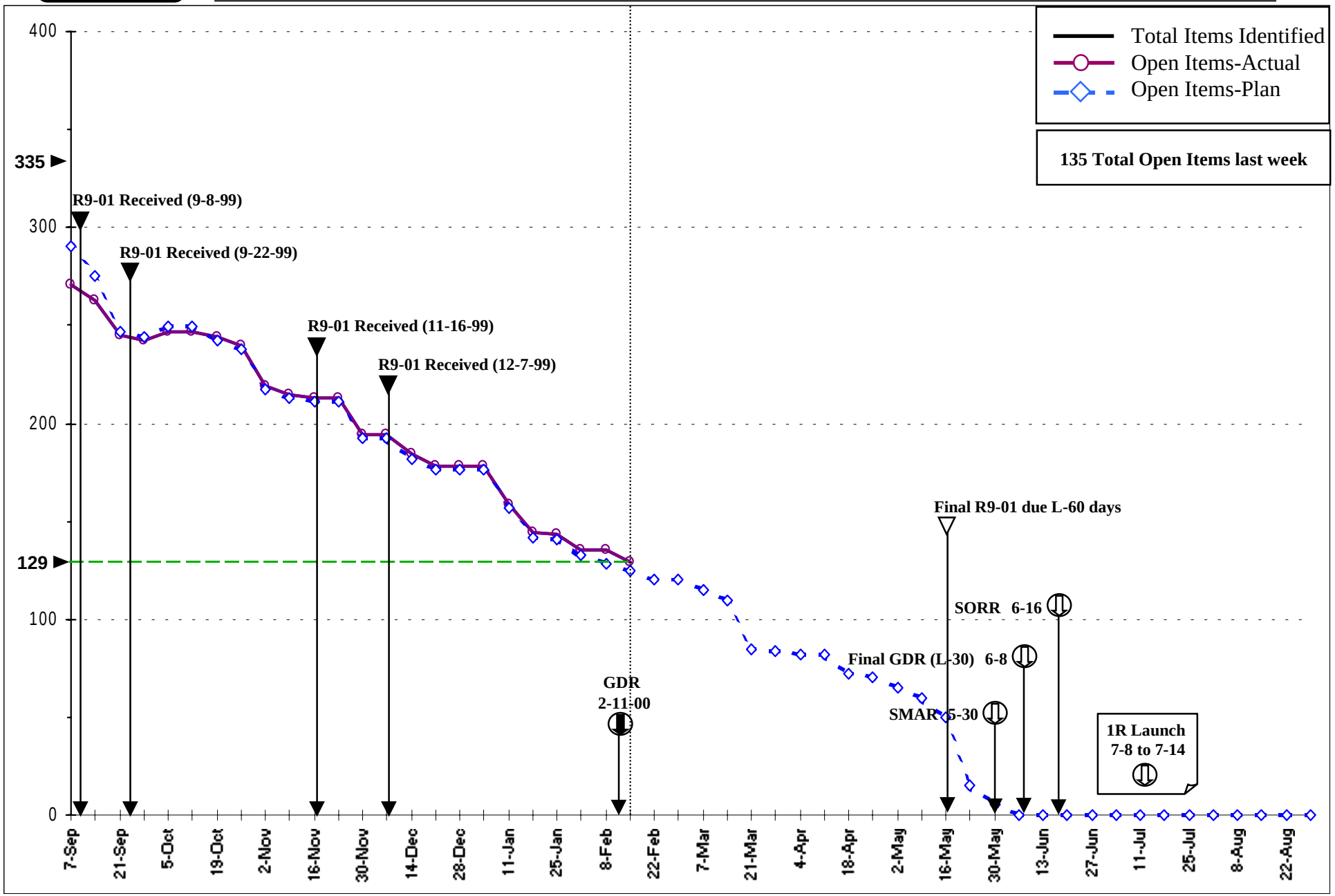
- All 8 BUPTs (charge controllers) were modified and are in AT in Moscow. 5 will be returned to Baikonur, 3 will be shipped to KSC
- Out of 307 regression electrical tests, 186 completed, 184 accepted
- Modified TCS control panels were shipped to Baikonur, leak tests in progress
- Verification of flight sw 4.30.12 continues on CS, ready to load on FA on 2/25

UPCOMING EVENTS:

- Load 4.30.12 and run Integrated Mode 4 this weekend (TsUP participation)
- SM CEIT discussions ongoing. Target date is late April/early May
- Acoustics Testing/TIM tentatively set for 3/13

1R Open Paper Burndown

Status as of: February 15, 1999



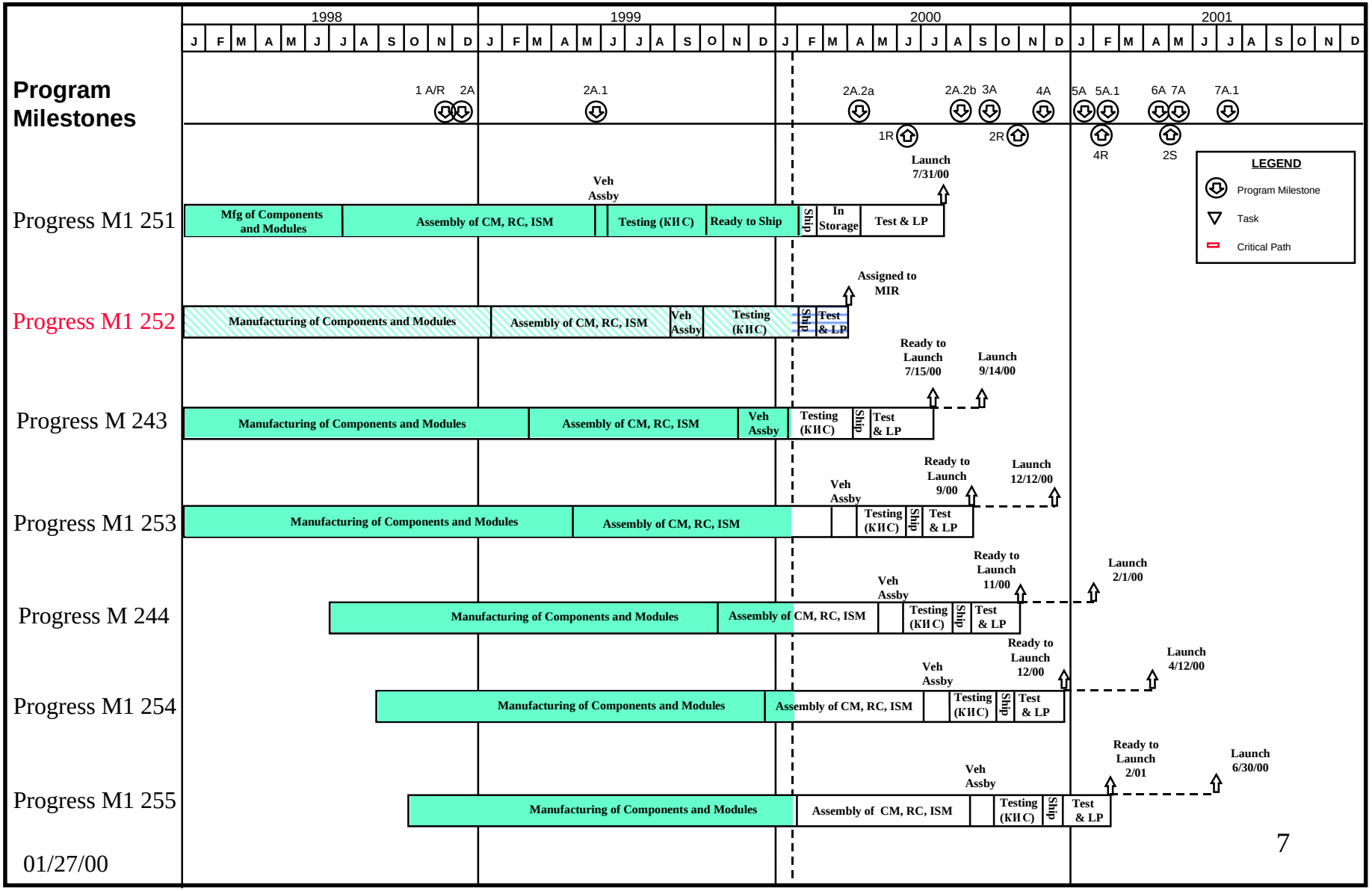
1R Open Paper Burndown

Status as of: February 15, 1999

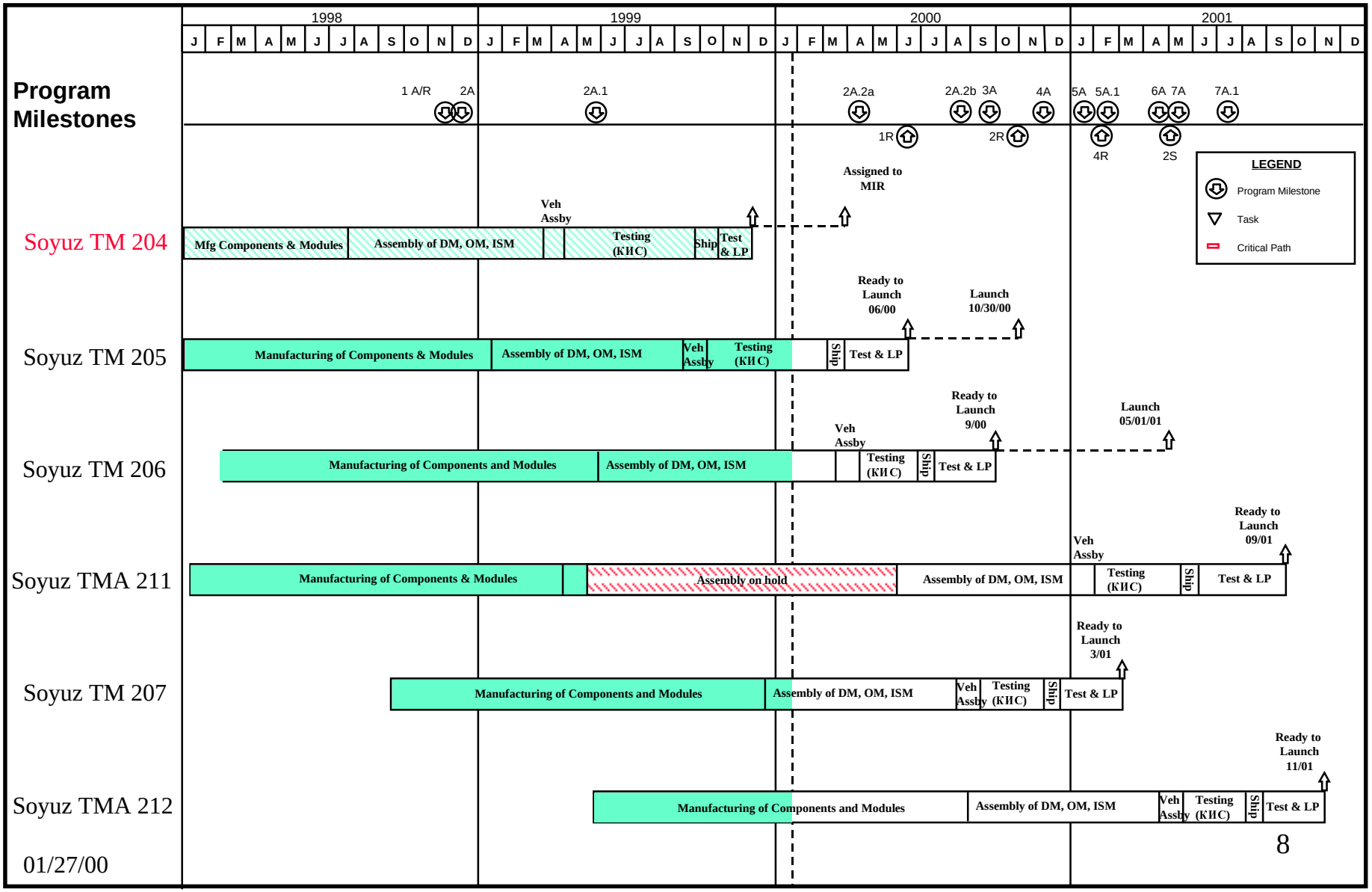
Open Paper	G-Y-R	Total Items	Total Item (last week)	Open Items	Open Items (last week)	Closed Items	Actual Close This Week	Added This Week	Past Due >30 Days	Comments
Stage Verification										
Stage Integration Review (SIR)	Y	23	23	0	0	23	0	0	0	
Stage Requirements (Burn-up)	G	289	289	0	0	289	0	0	0	
Stage VCNs (Burn-down)	Y	289	289	114	118	175	4	0	21	
Subtotal		601	601	114	118	487	4	0	21	
Lower Level Items to Go										
CILs	Y	10	10	2	2	8	0	0	0	SFOG CIL in progress
Hazard Reports	Y	51	51	4	5	47	1	0	0	SFOG Hazard Report accepted
Safety NCRs	Y	8	8	3	4	5	1	0	0	SFOG NCR deleted
AOEs	G	1	1	0	0	1	0	0	0	
Risks (RDMA)	Y	50	50	6	6	44**	0	0	0	
Subtotal		120	120	15	17	105	2	0	0	
Total		721	721	129	135	592	6	0	21	

** 7 Assigned to Other Flights or Not Applicable for Flight 1R

Manufacturing Schedule for Progress Vehicle (11Ф615A55)
Interim Assembly Sequence, Rev E DCN-04



Manufacturing Schedule for Soyuz Vehicle (11Ф732)
Interim Assembly Sequence, Rev E DCN-04



Soyuz/Progress Top Issues & Concerns

Status as of 2-24-00

- Progress Manufacturing
  - RSA funding of sufficient Progress vehicles to support ISS Assembly Sequence

- Soyuz and Progress MMOD NCR (SIR 2 #116 & #117)
  - Agreement on NCR wording regarding acceptance of first three vehicles with current design capabilities for PNP
  - Agreement on improvement of future vehicles to meet and increased value for PNP

Progress/Soyuz Open Paper Burndown

Status as of: February 15, 1999

Open Paper	G-Y-R	Total Items	Total Item (last week)	Open Items	Open Items (last week)	Closed Items	Actual Close This Week	Added This Week	Past Due >30 Days	Comments
Stage Verification										
SIR 2	Y	19	19	2	2	17	0	0	0	PNP level, Fracture Critical CIL
Stage Requirements (Burn-Up)	R	137	137	66	66	71	0	0	0	
Stage VCN (Burn-down)	R	137	137	110	110	27	0	0	0	
Subtotal		293	293	178	178	115	0	0	0	
Lower Level Items to Go										
Progress Hazard Reports	Y	19	19	2	2	17	0	0	0	PNP Level
Progress Safety NCRs	Y	3	3	1	1	2	0	0	0	PNP NCR
Progress Risks (RDMA)	Y									
Soyuz Hazard Reports	Y	29	29	2	2	27**	0	0	0	PNP Level, EMI
Soyuz Safety NCRs	Y	2	2	1	1	1	0	0	0	PNP NCR
Soyuz Risks (RDMA)	Y									
Subtotal		53	53	6	6	47	0	0	0	
Total		346	346	184	184	162	0	0	0	

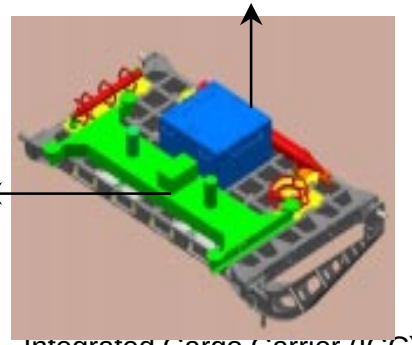
International Space Station
Flight 2A.2b (STS-106)
SpaceHab Double Cargo Module

Status as of: 02/24/00
Assembly Sequence, Rev. E

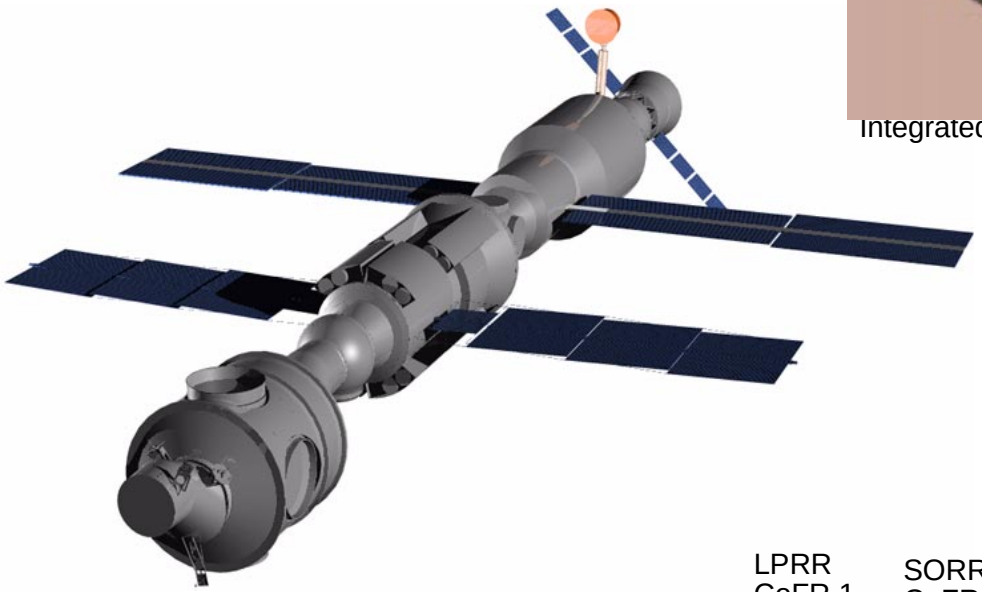
Spacehab used to transport items on Logistics flights (Spacehab Inc)

SHOSS Box

SOAR DTO



Integrated Cargo Carrier (ICC)



2A.2a Launch 4/13

LPRR CoFR 1 (TBD) 7/6

SORR CoFR 2 (TBD) 7/21

FRR (TBD) 8/4

2A.2b Launch 8/19

Acronym List

CIR	Cargo Integration Review
COFR #1	Certificate of Flight Readiness #1
COFR #2	Certificate of Flight Readiness #2
FPSR	Flight Planning and Stowage Review
FOR	Flight Operations Review
FRR	Flight Readiness Review
IDRD	Increment Definition & Requirements Document
NET	No Earlier Than
SHAB	Spacehab
SHOSS Box	SHAB Oceaneering Space Science
SOAR DTO	[illegible] Orbital Attitude Readiness

J	F	M	A	M	J	J	A
2000							

Flight 2A.2b Health Summary
For Week of 02/26/00

Team	Tech	Sched	Remarks
Flight 2A.2b Overview	Y	Y	**Tech: Baselined IDRD manifest and will be sent to shuttle for evaluation.**
GFE	Y	Y	Tech & Sched: IRED has technical issues and a 7/10/00 delivery date misses SpaceHab last SPPF stow day of 6/12/00. **Working to see if MVAK is possible.**
Russian Hardware	G	G	
ORU Spares/Propositioned	G	G	
Software	G	G	Tech: Tracking open items paper regarding Russian signature on NCS ICDs
Shuttle Integration	↑Y	↑Y	**Tech & Sched: Shuttle assessing Station's manifest and Tasks lists.**
Stowage Integration	G	G	**Tech: On-orbit stowage assessment in parallel to launch stowage assessment.**
Safety	G	G	**Sched: Received 10 of the 21 Russian SDPs: 3 are closed, 0 received/approved this week.**
Operations	G	G	Tech: 1) MOD is working to NET 7/00 for launch. 2) Crew assignment and training are the critical path items affecting schedule. 3) Mission content uncertainty further impacts ability to meet schedule.

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative recovery plan. Open issues do not have recovery plans
Tech: Does not meet requirements and does not have margin with critical path impact.

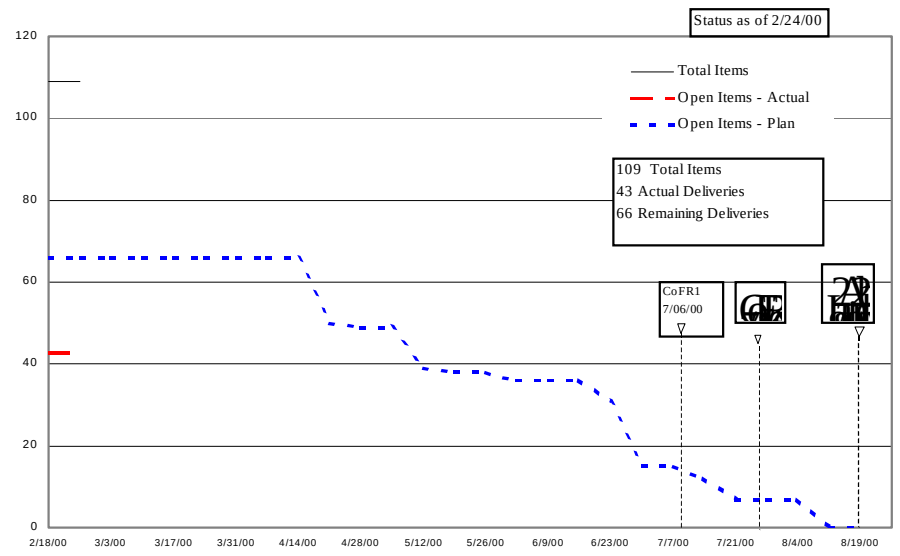
▲ **Improving** ▼ **Worsening**

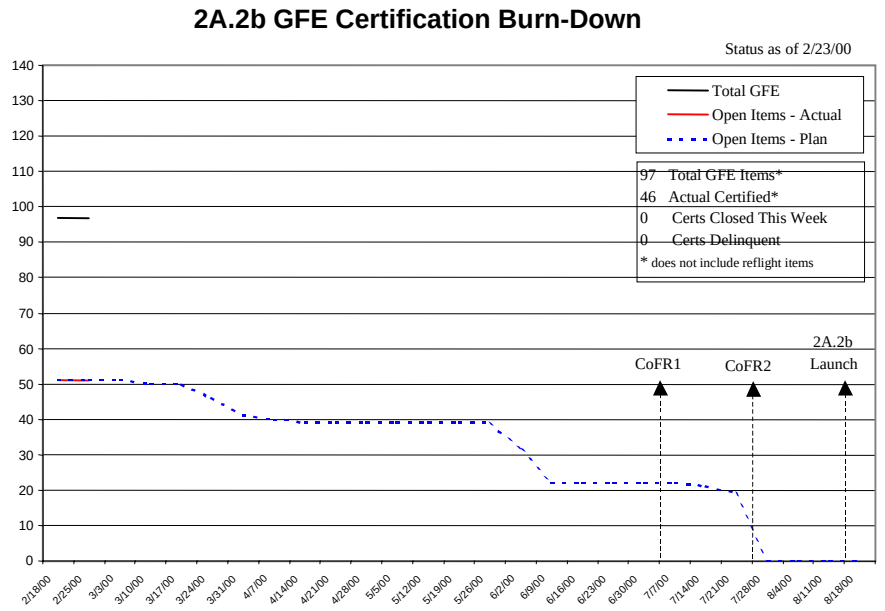
Flight 2A.2b (STS-101) Performance to Plan

Week of 02/20/00 - 02/26/00

Ref	*		Lvl	Baseline	Current	Actual
		GFE/ Assy Hardware				
		Late Load Deliveries				
		Russian Hardware				
		Shuttle Integ/Mission Ops				
1		2A.2b Hardware Delivery Meeting		2/23/00	2/23/00	2/23/00
2		Spacehab on-dock Need Date for Hardware to Support Bench Review		4/19/00	4/19/00	
3		USA FCE/EVA Need Date for Hardware on-dock to Support Bench Review		6/30/00	6/30/00	

2A.2b OPEN ITEMS CHART

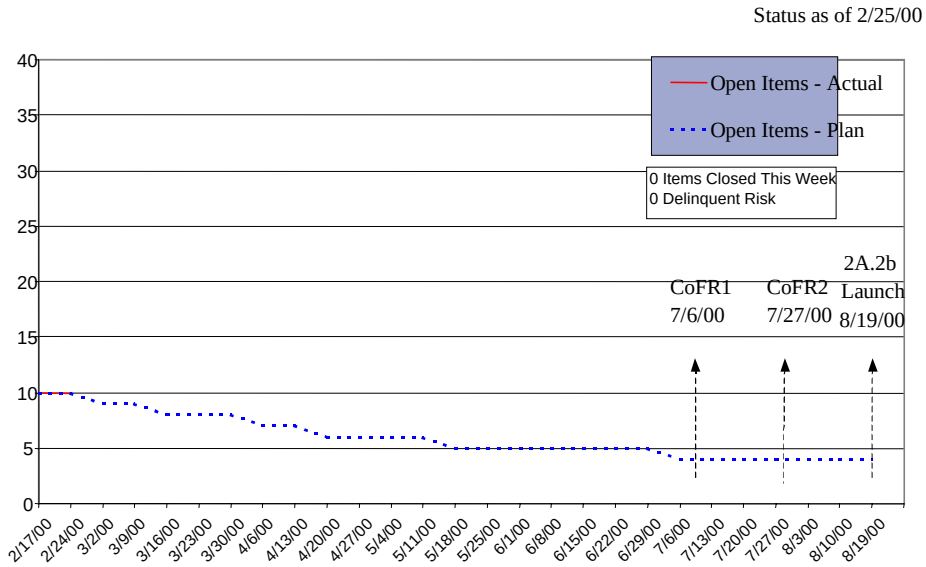




Prime Burn-down chart is TBR

2A.2b Miscellaneous Open Items Burn-Down

(PRACA/FIAR, RIDs/Design Review Actions, Waivers, GIP Actions, Risks, & Non-Conformances)



2A.2b OPEN ITEMS SUMMARY

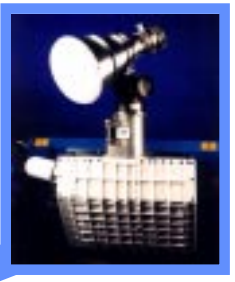
Open Paper	Open Items 2/25/00	Boeing	ISS GFE	EVA	Payloads	Russian	US	Program Risks	Comments
Stage Verification									
SIR/SAR Issues	0								N/A
DVO/VLNs	0	0							
VCNs	TBR	TBR							TBR - ECD
End Item Verification									
CDR Issues	0	0	0						
FCA/PCA Planning	0	0	0						
FCA/PCA Closures	0	0	0						
FCA/PCA/AR Issues	TBR	TBR	0						TBR - ECD
RIDs/Design Review Actions	0	0	0						
Engr. Releases	0	0							
Acceptance Test Reports	0	0							
Crew Squawks	0	0	0						
Non-Conformances	0	0	0						
PRACA/FIAR	4	TBR	4	0					4 (ECOMM, food warmer, 2 TOCA); Boeing PRACA/FIARs - TBR ECD
Waivers	0	0	0						
SCANs, GIDEPS	0	0	0						
ADP's in work	TBR	TBR							TBR - ECD
S/W PRs	TBR	TRB	0						TBR - ECD
VTLs	TBR	TBR							TBR - ECD
CILs	0	0	0						
Hazard Reports	0	0	0						
Open Certs	51	0	31	0	1	19			Russian (0 received, 0 approved, 3 SDP/reflight letters closed, and 10 of 22 SDP/reflight letters received)
Safety NCRs/Review Items	0	0	0						
AOEs	0	0							
Risks (Flight Specific)	1	0	0			1			Risk # 3801 (SM Training) ECD
TOTAL	56	0	35	0	1	20	0	0	
Mission Integration									
Risks (Generic)	0	0	0			0			
VAC 2A.2 Products	TBR	TBR	0						TBR - ECD
PIRNs/TBDs/ICDs	1	0	0				1		CHeCS TEPC
GIP Actions	0	0	0						
GFE Specification Changes	0	0	0						
Remaining Deliveries	66	0	0			8	58		
KSC PR's	0	0	0						
Stage Issues Affect. 2A.2									
CHITs	0	0	0						
Funnies	0	0	0						
Anomalies	0	0	0						
Stage PRACAs	TRB	TRB	0						TBR - ECD
Non-Conformances	4	0					4		A Tactical Planning Comment form has been submitted to add labeling to 2R crew's task list with IDRD CR iteration
TOTAL	127	0	35	0	1	28	63	0	

Remaining US SDPs Submittal to Russia	35							325	US H/W used in Russian segments
US Functional Data Submittals to Russia	43							113	US H/W used in Russian segments
Remaining Russian Approvals	325							325	US H/W used in Russian segments

International Space Station
Flight 3A (STS-92)
Z1 Truss, CMGs, Ku-Band, S-Band, PMA 3/SLP

Status as of 2-23-00
Rev E Assembly Sequence

Ku-Band
(Boeing - Huntington Beach)



S-Band
(Boeing - Huntington Beach)
(inside Z1 Truss)

Z1 Truss
(Boeing - Canoga Park)

Pressurized Mating Adapter (PMA 3)
(Boeing - Huntington Beach)

Control Moment Gyros (CMGs)
(Boeing - Huntington Beach) [S/C - Allied Signal]

SASA ATP Comp
7-30

SLP/PMA-3 Final Integ (Pre-MEIT) Comp
5-13-98 (B)
12-10

Comp ETE/MST Post Ops
~~2-3~~ 2-7

Comp Z1 TCS Blowdown and QD Welding
3-9 ~~2-28~~

MEIT (TC#2) Comp
10-1-98 (B)
6-19

KuBand TRC O/D KSC
7-31

RPCM's O/D KSC
8-30 ~~9-3~~

Comp Z1 Assy
3-7-99 (B)
12-3

Comp MEIT TC-2 Regression Testing
3-29-99 (B)
1-14

Start Z1 Final Assy
~~3-9~~ 3-10

Z1 Ready for Turnover to Shuttle
11-25-98 (B)
4-12

J	J	A	S	O	N	D	J	F	M	A	M
1999							2000				

127-16-3A-1 (Rev E) /GRFX/ 2/25/00 6:58 AM

Note: (B) = Contractual Baseline

Flight 3A Health Summary

Team	Tech	Sched	Remarks
Flight 3A Overview	**Y**	**Y**	Tech: SLP/PMA-3 Cargo Element, Z1 Truss, & DDCU-HPs are being staged for final assembly & check out. Sched: Turnover for Shuttle Integration 4/12.
Z1 Cargo Element	**Y**	**Y**	Tech: PCU #1 is in a shipping container at GRC awaiting high-pressure Leak Test concurrence. Following Xenon purity analysis, PCU #2 will be shipped to GRC for acceptance test & then to KSC. Sched: PCU O/D dates are pending Leak Test resolution & Xenon purity analysis. PCU O/D Need = 3/13. Z1 final assembly & C/O 3/10 – 4/11.
SLP: PMA-3, MBM	**G**	**G**	Tech: **Workaround for power bolt nut cotter pin and reduction in bolt loading between the PMA and MBM are being addressed via the HICP. Recommendation to HICP on 3/2.** Sched: SLP / PMA-3 Final Integration completes **3/6**.
DDCU-HPs	**Y**	**Y**	Tech: **APT 600-Volt diode test anomaly is investigation is continuing. Investigation team has given go-ahead for Vibration test. Decision on requirement for lifting sling to support installation of DDCUs at the PAD due at L-3.5 mo.** Sched: DDCU-HPs O/D KSC with new diodes 3/12 & 3/26.
Shuttle Integration	**G**	**G**	Tech: APM is currently at + **1052** lbs. Middeck Stowage margin is down to "0". **SSP** assessment of mid-deck volume **on 2/16** shows that all ISS H/W can be accommodated **except for one highly desirable camera bag (ancillary H/W) with no impact to mission objectives**. If the schedule requires it, Shuttle has concurred that DDCU-HPS can be installed vertically at the PAD vs. at the OPF. Go-Ahead decision for modification of DDCU-HP lifting sling required by **3/1 (or L-3.5 m)**. Sched: SSP PRCB approved launch date of 6/14/00.
GFE	**G**	**G**	Tech: **3** hardware items are pending certification for flight (CIDS & SWIS). Sched: On schedule to support H/W O/D and review dates. **Potential milestone move to right due to proposed new launch date.**
Analysis & Verification	**G**	**G**	Tech: 3A Open Items continue to close. Sched: DDCU-HP PCA (U/R), DDCU-HP DD250 (U/R).
Safety	**G**	**G**	Tech: No issues Sched: 2 on-schedule Hazard reports remaining to close.
Operations	**G**	**G**	Tech: 3A tasks not accomplished by 2A.2 (Node 1 handrail install, PMA-2 CBM controller-install, CBM direct view EVA cable pre-position, and SVS target clearing) have been added to the 2A.2a mission. If not done on 2A.2a, 3A will perform them. SSP PRCB approved change to mission duration from 10+1 to 11+0. **Pursuing testing of Zenith/Nadir CBM port H/W during 2A.2a/b to assess status of system required for 3A berthing operations. Plan 1MTO presentation on 3/1.** Sched: Internal MOD recon production schedules are being reviewed in light of manifest uncertainty to determine when to produce last product set.

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative margin with critical path impact.
Tech: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

↑ **Improving** ↓ **Worsening**

02/24/00

Flight 3A (STS-092) Performance to Plan

Week of 2/20/00 - 2/26/00

Line Item	Line Item Description	SCB Approval Req'd	Baseline	Current	Need	Actual
	DDCU-HP / PCU / RPCM's (Rupley)					
1	Ship PCU #1 GR to KSC		2/12/00	~~2/25/00~~ 3/1/00		
2	PCU #1 O/D KSC		2/15/00	~~2/29/00~~ 3/5/00		
3	PCU #2 Purity Analysis Results (Sample Two)		1/21/00	~~2/16/00~~ 3/5/00		
4	PCU #2 O/D GR		2/26/00	3/10/00		
5	DDCU-HP #2 (68) Vib test (HB) Complete		2/18/00	U/R		
6	DDCU-HP #2 T/Vac Start		2/25/00			
7	DDCU-HP #1 (67) Vib test (HB) Complete		2/22/00	U/R		
	SLP / PMA3 / MBM (Lauger/Jenks/Sorenson/Duncan)					
8	SLP/PMA-3 Final Integration Complete (Camera Test)		2/8/00	~~2/22/00~~ 3/6/00		
	Z1 TRUSS (Sorensen)					
9	SGANT Parts O/D KSC		2/25/00			
10	Z1-P6 Capture Latch Claw Pins (HB) O/D KSC		2/15/00	3/1/00		
11	Z1 Blowdown Preparations (Sound Baffling/Insulation) Complete		2/19/00			2/19/00
12	Blow Down of the Z1 TCS Lines		2/20/00			2/19/00
13	SASA Fit Check Complete		2/29/00	3/15/00	4/12/00	
14	Z1 QD Welding Inspection Complete		2/25/00	U/R		
	COMM & TRACKING / CAPTURE LATCH (Davis/Leuer)					
	ANALYSIS & VERIFICATION (Paul McRae)					
	SHUTTLE INTEGRATION / MISSION OPS (Paul McRae)					
15	3A MER		2/22/00			2/22/00

Status as of February 24, 2000

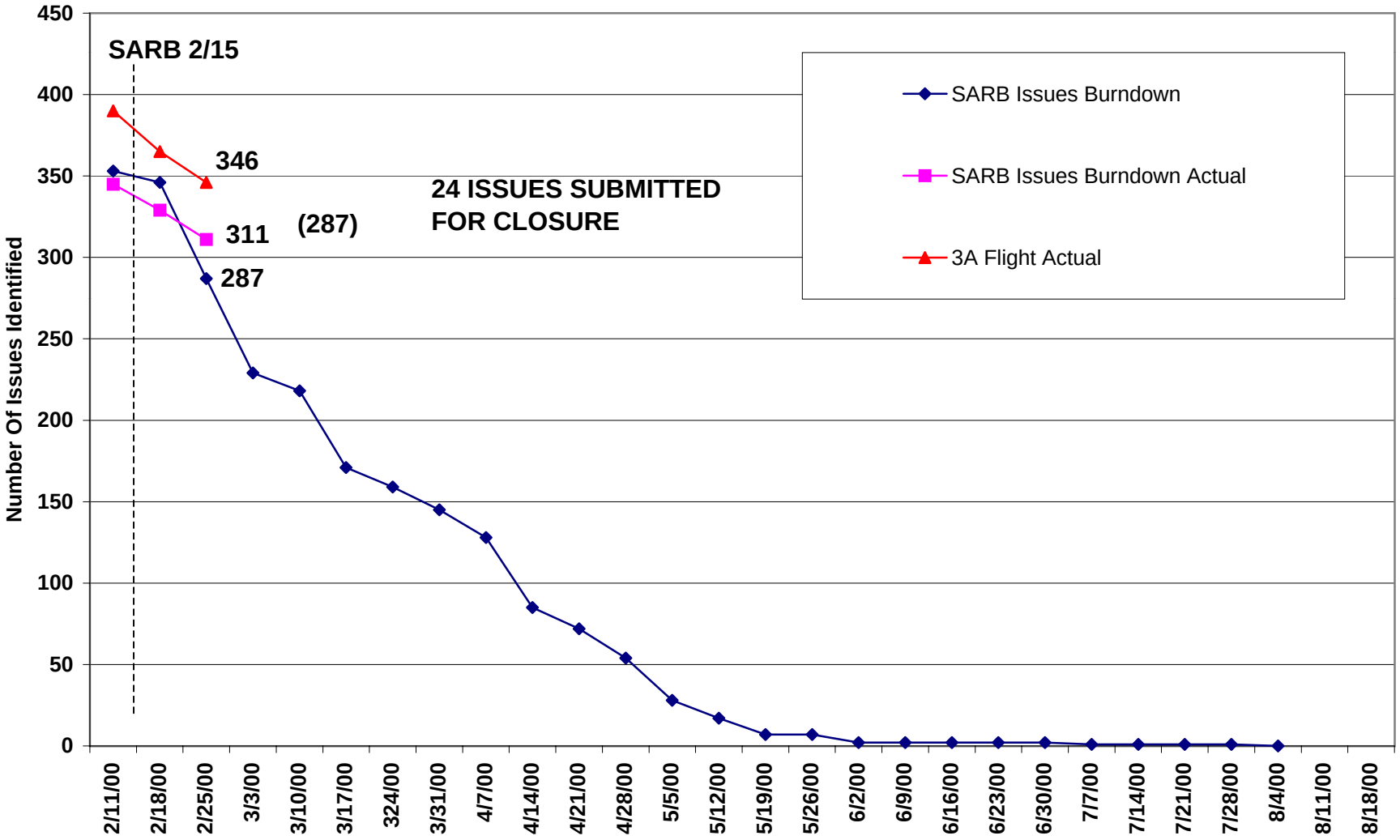
#	AoEs due to be discussed today:	Owner

*** = Changes Require Schedule Change Board (SCB) Approval**

Boeing Mission Integration Manager: Paul McRae (281)336-4554

Boeing Mission Integration Planner: Dean Brady (281) 336-4644

3A ARB/FLIGHT ISSUES BURNDOWN

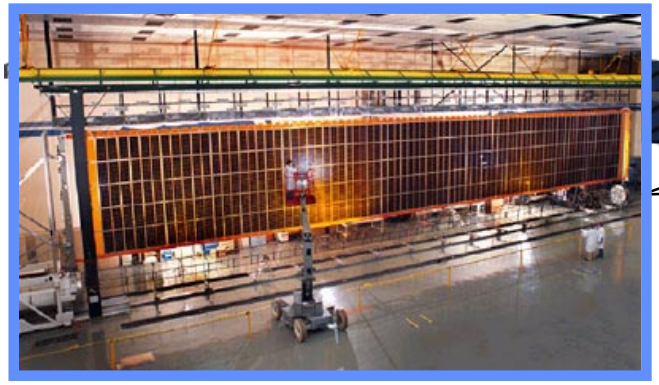


3A OPEN ITEMS SUMMARY

Open Paper	Total Items	02/25/00 Open Items	02/18/99 Open Items	Burndown	No. of Delinquent Items	Comments
Stage Verification						
SIR Issues	83	0	0	Y	0	100% Complete
SAR Issues	130	0	0	N/A	0	100% Complete
DVO/VLNs	584	0/0	0/0	Y	0	100% Complete
VCNs	584	57	59	Y		
End Item Verification						
CDR Issues	16	0	0	N/A	0	100% Complete
Stage Closure	420	57	59	N/A	10	
Element Closure	420	7	5	N	1	
FCA/PCA/AR Issues	895	51	59	Y	6	
Lower Level Items						
Engr. Releases	110	10	14	N	2	
Installations	24	0	0	N	0	100% Complete
Acceptance Test Reports	3	0	0	N	0	100% Complete
Non-Conformances/IDCRs	346	64	65	Y	0	
PRACA	129	32	32	N	4	
SCANs, GIDEPS	26	0	0	N/A	0	100% Complete
ADP Issues	301	0	0	N	0	100% Complete
S/W PRs	520	0	0	Y	0	Moved to 2A.2
VTLs	884	23	26	Y	0	
CILs	29	0	0	N/A	0	100% Complete
Hazard Reports	36	2	2	Y	0	
Safety NCRs	4	0	0	N/A	0	100% Complete
AOEs	48	7	7	Y	3	
Risks (RDMA)	137	1	1	Y	0	
TOTAL	**5729**	**311**	**329**		**26**	

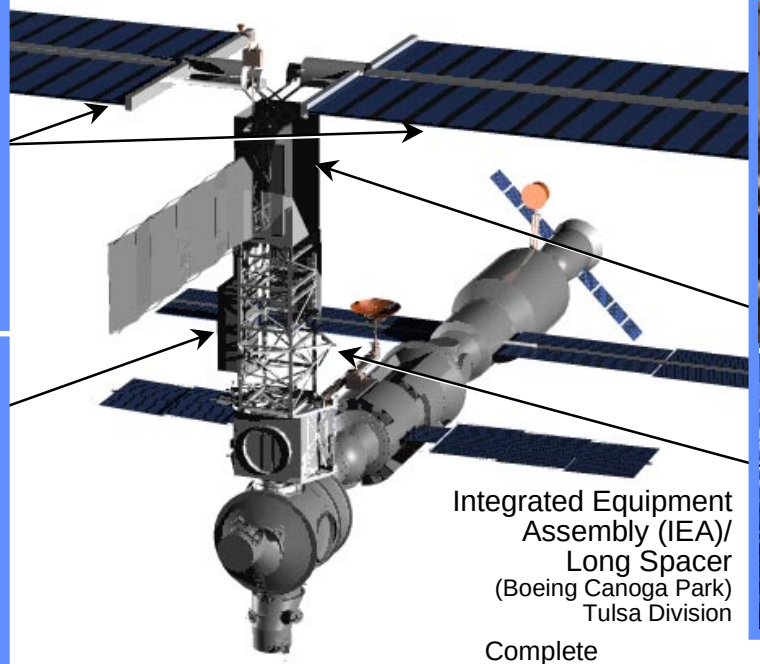
International Space Station
Flight 4A (STS-97)
P6, Integrated Equipment Assembly, EEATCS, PV Array, S-Band

Status as of: 2-23-00
Rev E Assembly Sequence



Flight Photovoltaic (PV) Array
(Boeing Canoga Park)
[S/C - Lockheed]

Early External Active Thermal Control System (EEATCS)
(Boeing Canoga Park)
[S/C - Lockheed Vought]



Integrated Equipment Assembly (IEA)/ Long Spacer
(Boeing Canoga Park)
Tulsa Division

Start MEIT TC-2 Regression Testing
1-3

Complete MEIT TC-2 Regression Testing
3-29-99 (B)
1-14

Complete ORU Cable Box Rework
3-23 ~~3-8~~

MEIT (TC#2) Comp
10-1-98 (B)
6-19

Complete Post TC-2 Outfitting
3-7-99 (B)
12-10

Complete 175 Regression Testing
10-29-99 (B)
12-23

Complete ETE/MST Post Ops
2-7 ~~2-3~~

Complete P6 Final Assy & C/O
1-26-99 (B)
~~4-20~~ 5-3

Ready for Turnover to Shuttle
5-23 ~~5-10~~

M	J	J	A	S	O	N	D	J	F	M	A	M	J
1999								2000					

127-16-4A-1 (Rev E) /GRFX/ 2/25/00 6:57 AM

Note: (B) = Contractual Baseline

Flight 4A Health Summary

Team	Tech	Sched	Remarks
Flight 4A Overview	**Y**	**Y**	Tech**:** DDCU, BGA , and ECU/SSU/BGA combined EMI Qual remain Sched: New Integrated Best Case Assessment shows ready for turnover to shuttle on **5/23/00 (TBR based on BGA)**
P6 Flight Unit	**Y**	**Y**	Tech**:** RTAS number 3 and 4 primary and secondary attach bearings outside allowable tolerance. Thermal analysis confirms margin for 4A; still needed for 13A relocation. -FQDC/Symmetrics QD Leakage Issue. IEA, LS Welding Ops complete; LS Weld X-Rays in work. -**P6 Released from ETE/MST on 2/7/00. ORU removal from IEA Completed 2/19/00.**
Flight/Qual ORUs	**Y** ↓	**R**	Tech**: DDCU Qual regression testing started , ECD 4/11/00. DDCU FM-05 ATP started 2/17/00. FM-04 ATP started 2/18/00** **-Twinax connector : BGA platform rework started 2/9/00. All cable boxes at Harvard for rework. Twinax Qual complete 3/9/00, all twinax work complete (BGA platform, cable boxes, LS cables), ECD 3/27/00.** - -BGA Qual unit On-orbit Static Loads test BMRRM rotation failure (AOE-0609). **Fast track approach failed thermal extremes test. Currently reconfiguring to support medium track (2A) approach (unmodified I-718 retainer and donut bearing spacers). ECD for thermal extremes test 2/29/00.** **- BGA/ECU/SSU Bonding /EMI Testing: Testing going well, ECD for completion of all testing 3/1/00.** -Radiator cinch mechanism release torque exceeded PGT max of 400 in-lbs, 420 in-lbs measured at –115F during Thermal test at JSC. **HTV test of proposed design solution at JSC, ECD 3/3/00.**
GFE	**G**	**G**	No significant issues
Software	**G**	**G**	No significant issues
Shuttle Integration	**G**	**G**	Sched: Ready for hardware Turnover to shuttle ECD 5/23/00
Analysis & Verification	**G**	**Y**	Sched: DDCU-E PCA 4/24/00 (U/R) , P6 PCA 3/24/00 (U/R) ARB 4/18/00(U/R). **AD CAD Model delivery ECD 3/2/00.. Phase I Delta VAR held 2/17/00, 80% complete, weekly reviews will be held until complete. Phase II Delta VAR including new BGA Math Model ECD 5/1/00. P6 Math model including new BGA Math model now functional to support VLA. VLA math model data dump to ISS ECD 3/7/00.**
Safety	**G**	**G**	Tech**:** NH3 Flammability Hazard Reports to remain open pending resolution of FQDC/Symmetrics QD leakage issues.
Operations	**G**	**Y** ↓	**Tech: 4A JOP weekly reviews to resolve open DNs from FOR started 2/15/00. Delta IOR on 2/18/00. 4A FOR Lessons Learned briefing ECD 2/29/00. 260 open actions (MOD), 344 open Boeing actions**

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
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↑ **Improving** ↓ **Worsening**

Flight 4A (STS-97) Performance to Plan

Week of 2/20/00 - 2/26/00

Line Item	Line Item Description	SCB Approval Req'd	Baseline	Current	Need	Actual
	ORU Development (Kevin O'Hara)					
1	Complete BMRRM Thermal Extreme test-(Medium Track)		2/7/00	2/26/00		
2	Start BGA On-Orbit Loads Structural Test-(Medium Track)			U/R		
3	Complete BGA On-Orbit Loads Structural Test-(Medium Track)		8/27/99	U/R		
4	Complete ECU/BGA/BMRRM EMI Test		3/1/00	3/3/00		
5	Comp. DDCU-E Qual Regression (APT methode diode)		10/13/99	~~10/22/99 (U/R)~~ 4/11/00		
6	P6 SVS Targets O/D KSC (From CSA) GFE	*	3/17/00	~~2/15/00~~ 2/29/00	4/2/00	
	P6 Flight Unit (K. O'Hara)					
7	SSU FM-~~03 07~~ 04 O/D KSC	*	1/5/00	3/7/00	3/9/00	
8	Start DDCU-E FM-05 ATP		2/15/00			2/17/00
9	Start DDCU-E FM-04 ATP		2/23/00			2/18/00
10	Complete P6-1 BGA Platform Twinax Rework @ Harvard		2/19/00	2/28/00	3/13/00	
11	Complete P6-2 BGA Platform Twinax Rework @ Harvard		2/27/00	3/6/00	3/29/00	
12	Start Cable Box Twinax Rework @ Harvard		2/16/00			2/16/00
	P6 Flight Unit (M. Sorensen)					
13	Complete L/D ORU/Cable Box Removal		2/17/00			2/19/00
14	Ship L/D Cable Boxes 3/6 to Harvard		2/19/00			2/21/00
	Software (Linda Uljohn/Kevin O'Hara)					
15	4A Flight IFL	*	2/29/00		~~3/2/00~~ 3/28/00	
	Analysis & Verification (Steve Hammitt)					
16	DDCU-E PCA Start		9/27/99	~~10/11/99~~ 4/24/00 (U/R)		
17	As Designed CAD Model Delivery		12/17/99	~~2/18/00~~ 3/2/00		
18	Delta VAR (Phase I)		2/17/00			2/17/00
	Shuttle Integ/Mission Ops (Steve Hammitt)					
19	JOP		2/22/00			2/22/00
20	IPT		2/23/00			2/23/00
21	MER		2/22/00			2/22/00
22	Delta IOR		2/18/00			2/18/00

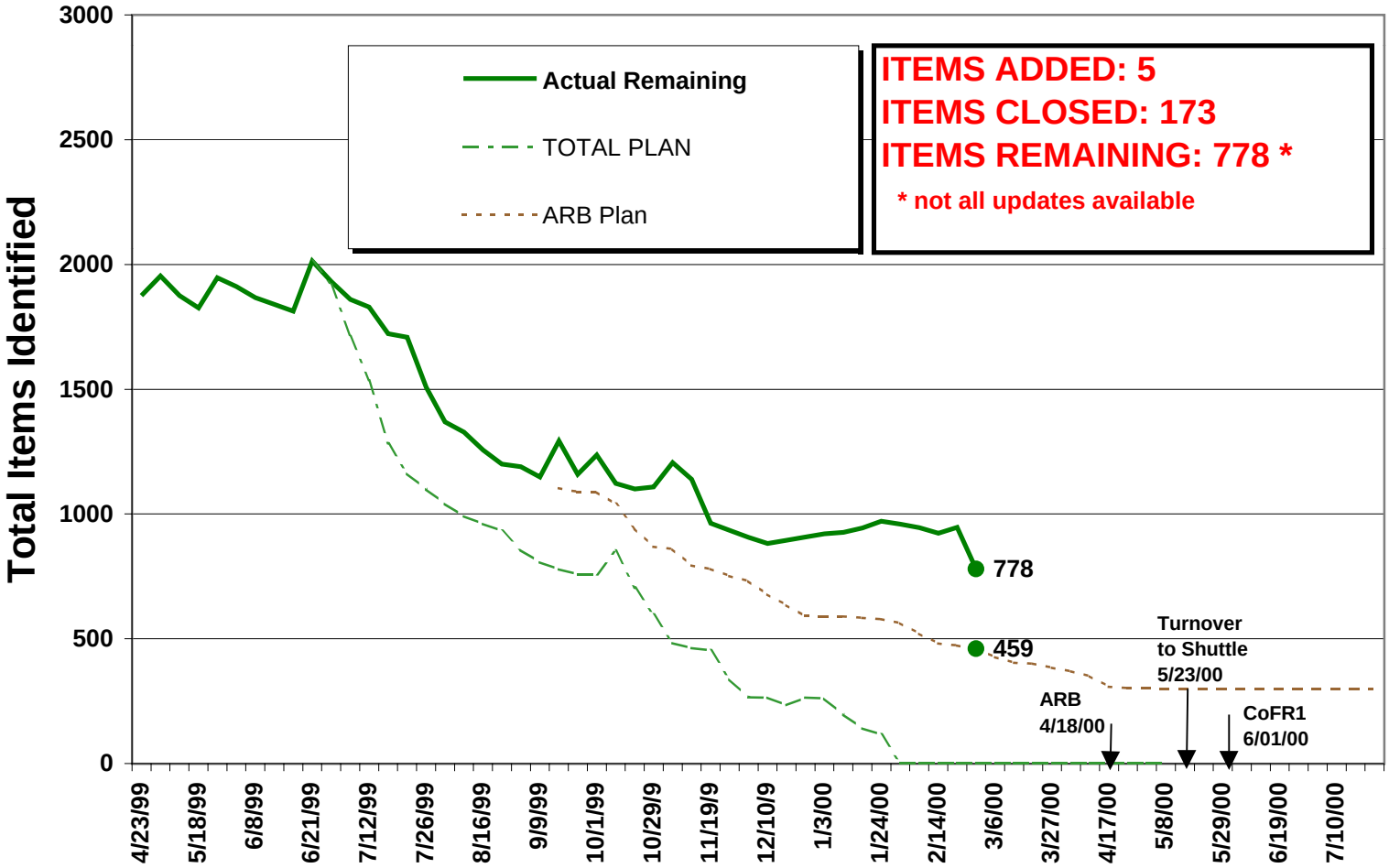
Status as of February 24, 2000

#	AoEs due to be discussed today:	Owner

*** = Changes Require Schedule Change Board (SCB) Approval**

4A Open Items Burndown

02/23/00

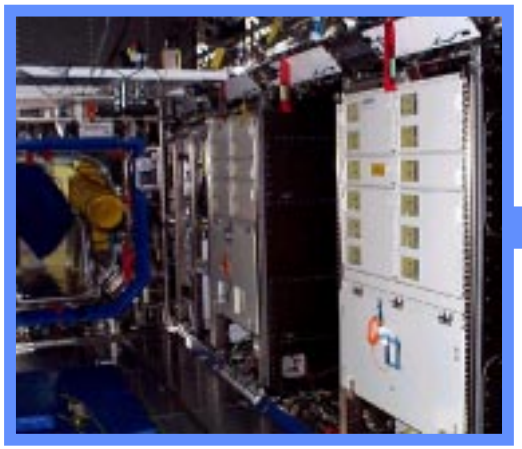


4A OPEN ITEMS SUMMARY

Open Paper	Total Items 02/23/00	Total Items (Last Week)	Open Items 02/23/00	Open Items (Last Week)	Actual Close This Week	Added This Week	Delinquent	Comments
Stage Verification								
SIR/SAR Issues	52	52	0	0				
DVO/VLNs	548	548	0	0				
VCNs	548	548	153	158	5			
End Item Verification								
CDR Issues	11	11	0	0				100% Complete
FCA/PCA Planning	435	435	0	0				100% Complete
FCA/PCA Closures	446	446	16	17	1		3	
FCA/PCA/AR Issues	787	787	75	77	2		13	
Lower Level Items								
Engr. Releases	324	324	29	43	14		1	
Installations	46	46	28	28				no update available
Acceptance Test Reports	17	17	0	0				no update available
Crew Squawks	0	0	0	0				100% Complete
PRACA	186	186	30	32	2		1	
SCANs, GIDEPS	30	30	0	0				
ADP Issues	182	182	55	50		5		
Non-Comformances/IDCR's	212	212	49	52	3		5	
S/W PRs	978	978	157	277	120		48	109 EPCS/PCS, 69 with no ECD; 48 Delinquent (39 EPCS/PCS)
VTLs	1047	1047	30	30			2	
CILs	4	4	0	0				
Hazard Reports	37	37	3	3				
Safety NCRs	7	7	1	1				
AOEs	57	57	7	7			1	
Open Planning	151	151	51	56	5		4	
Risks (RDMA)	141	141	4	4				No ECD's for 2 Risks.
ARB TOTAL	6254	6249	688	835	152	5	78	
Mission Integration								
Risks (Non-first flight)	31	31	3	3			1	No ECD for 1 Risk.
VAC 4A Products	235	235	42	42				no update available
PIRNs/TBDs/ICDs	33	33	11	32	21			
GFE	71	71	9	9				no update availiable
2A Issues Affect. 4A								
CHITs	0	0	0	0				
Funnies	9	9	9	9				
Anomalies	16	16	16	16				
MISSION TOTAL	6649	6644	778	946	173	5	79	

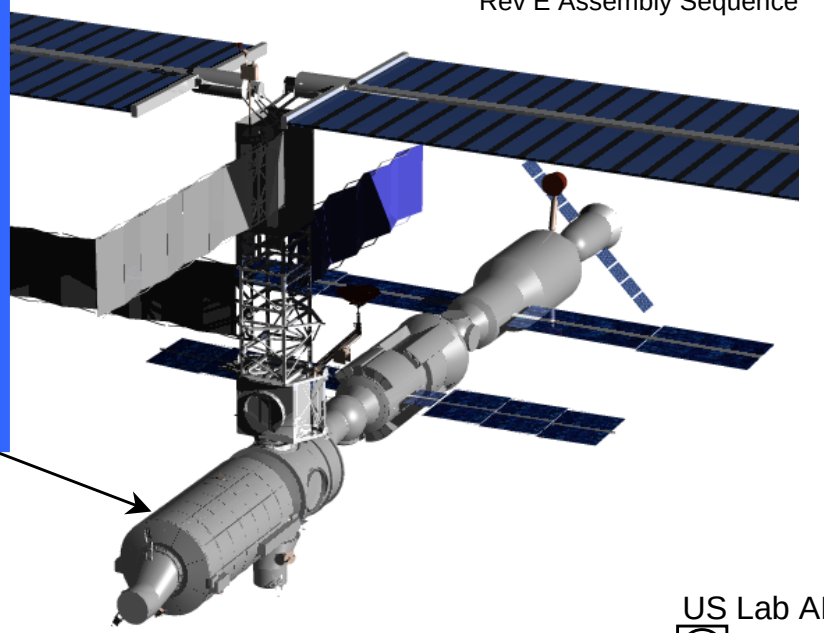
International Space Station
Flight 5A (STS-98)
Laboratory, 5 Lab System Racks

Status as of: 2-24-00
Rev E Assembly Sequence



Lab System Racks (5)
(inside Lab)
(Boeing-MSFC)
in SSPF at KSC

Laboratory in SSPF at KSC
(Boeing-MSFC)



US Lab ARB
(8-20 B)
5-23

C/H ECLSS Qual Test Comp
(3-3 B)
5-7

US Lab MEIT Turnover
(9-16-98 B)
5-15

MEIT TC2 Test Comp
(10-1-98 B)
6-19

MEIT TC2 Reg Test Comp
1-14

MEIT ETE/MST Comp
2-9

Lab Final Closeouts Comp
(4-1 B)
6-19

PDCO/ Regression Test Comp
(12-15-98 B)
4-13

CCS R1 FQT
(4-9 B)
5-7

MEIT TC4 Test Comp
(11-25-98 B)
8-13

Lab Internal Assy Comp
(9-17 B)
10-11

Qual Cleanup 2
(12-3 B)
12-19

MEIT TC4 Reg Test Comp
3-11

Flight Acceptance
(12-3 B)
4-22

Ready for Turnover to Shuttle
(4-2 B)
6-20

A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
1999									2000					

(9-21 B) 5-27 — MEIT — (11-25 B) 8-13

(3-8 B) 12-20 — MEIT — (3-29 B) 3-11

Note: "B" = Contractual Baseline

Flight 5A
Health Summary

Team	Tech	Sched	Remarks
Flight 5A Overview	Y	Y	
US Laboratory Module	Y	Y	**Tech:** Fiber Optic cable testing underway to determine root cause of fiber bubbles and assess risk. Risk assessment to DCB on 2/23/00. Root cause evaluation to complete 3/1/00. **Sched:** The US Lab was turned over for MEIT TC4 regression testing on 2/15/00, and that testing is scheduled to run through 3/8/00. After MEIT, the US Lab will begin acceptance testing and closeout for flight, and is scheduled to turn over for Space Shuttle integration to 6/20/00**. Rack Jumper Extension (CR 2778) approved for partial implementation on 12/20/99, reqmts. def. and status presented to DCB on 2/23/00. Integrated Compatibility Test (ICT – CR 2092) planning and requirements definition in work – status to DCB on 2/28/00. Zero-G Stowage rack (ZSR) fit check performed 2/18/00. NASA Insignia Emblem (CR 2375) to go to MICP 2/29/00 for partial implementation for US Lab.**
US Lab ORUs	Y	R ↑	**Tech:** DDCU output rectifier diode issue under investigation. Pursuing alternative diode solutions from multiple suppliers. US Lab testing continues using eng. units. **Sched:** DDCU deliveries behind plan. TAYCO Hoses delivered to KSC 12/23 and installed on USL over the holidays – 1 leak check anomaly under investigation, ECD 2/25. 1st Emerg. Egress Lighting System (EELS) power supply delivery accelerated to 3/1/00 to meet KSC need date of 3/10/00; 2nd unit still does not support but workaround is in place. Flight Window Scratch Pane delivery delayed to 6/1/00, assembly and checkout plan in work. **CO2 Vent EOD 5/24/00 (3/24/00 KSC need) – working to expedite delivery and investigating workaround options**.
Critical Spare SASA – primary PFCS, DCSU – Launch on Need	G	Y ↑	**Tech:No significant technical issues with 5A spare ORUs.** **Sched: TIM forthcoming to clarify schedule and integration roles and responsibilities. SASA turnover ECD 3/29/00, DCSU shipment pending Acceptance Review.**
GFE	Y	Y	**Tech:** CheCS specification (CR 2167) presented to HICP 2/3/00. **Sched:** SIGI Delta Firmware FQT to complete 2/25/00, plan to load final flight firmware prior to USL Acceptance test. SSSR Flight Unit ECD 4/28/00, will continue to use engineering unit in Lab testing.
Software	Y	Y	**Tech:** CCS R1 FQT started 1/24/00, ECD 2/21/00. **Sched: Russian participation required for 5A-7A Stage Testing, expected to arrive next week. ECD for Russian portion of Stage testing is 4/11/00.** SW PRs not meeting burndown plan, risk to delivery schedules/content.
Shuttle Integration	G	G	**Tech:** No significant Shuttle Integration technical issues. Successfully completed STS-98 VAR on 1/20/00. **Sched:** No significant Shuttle Integration schedule issues.
Analysis & Verification	Y	R	**Tech:** Nine 5A DVO requirements remain to be baselined, ECD 3/1/00. USL PIDS Atmospheric Leakage VO under review. **Sched:** DVO baseline behind plan. Timely closure of all open paper is major concern (currently 3458 5A open items). USL As-Designed CAD model released 1/24/00.
Safety	G	G	**Tech:** No significant Safety technical issues **Sched:** No significant Safety schedule issues
Operations	Y ↓	Y ↓	1. Final SO released. Expect final CCS release in 4/00. There is significant threat that must-fix problems will cause MOD additional work 5A through UF-1. IFL 12.0 delivery date adds schedule threat because of lack of time to deliver new, required MCC capability. 2. Review of freeze/seal break PRs, SPN development, and incorporation of SPNs into ops products is a major resource drain. Growing number of SPNs (>230) causes significant concern because of their collective burden to ops. 3. Further RST model integration is required for SSTF load development. Load delivery schedule is dependent on Russian support, but not expected before 3/00. SSTF ECLSS model development is of great concern. 4. MEIT ETE and MST completed. Added 20 new MCC top problem ARs (need to be fixed before flight). MOD is working with the Program to determine what FSW PR fixes are required for flight.

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative margin with critical path impact.
Tech: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

↑ **Improving** ↓ **Worsening**

STATUS: 02/24/00

Flight 5A (STS-98) Performance to Plan

Week of 2/20/00 - 2/26/00

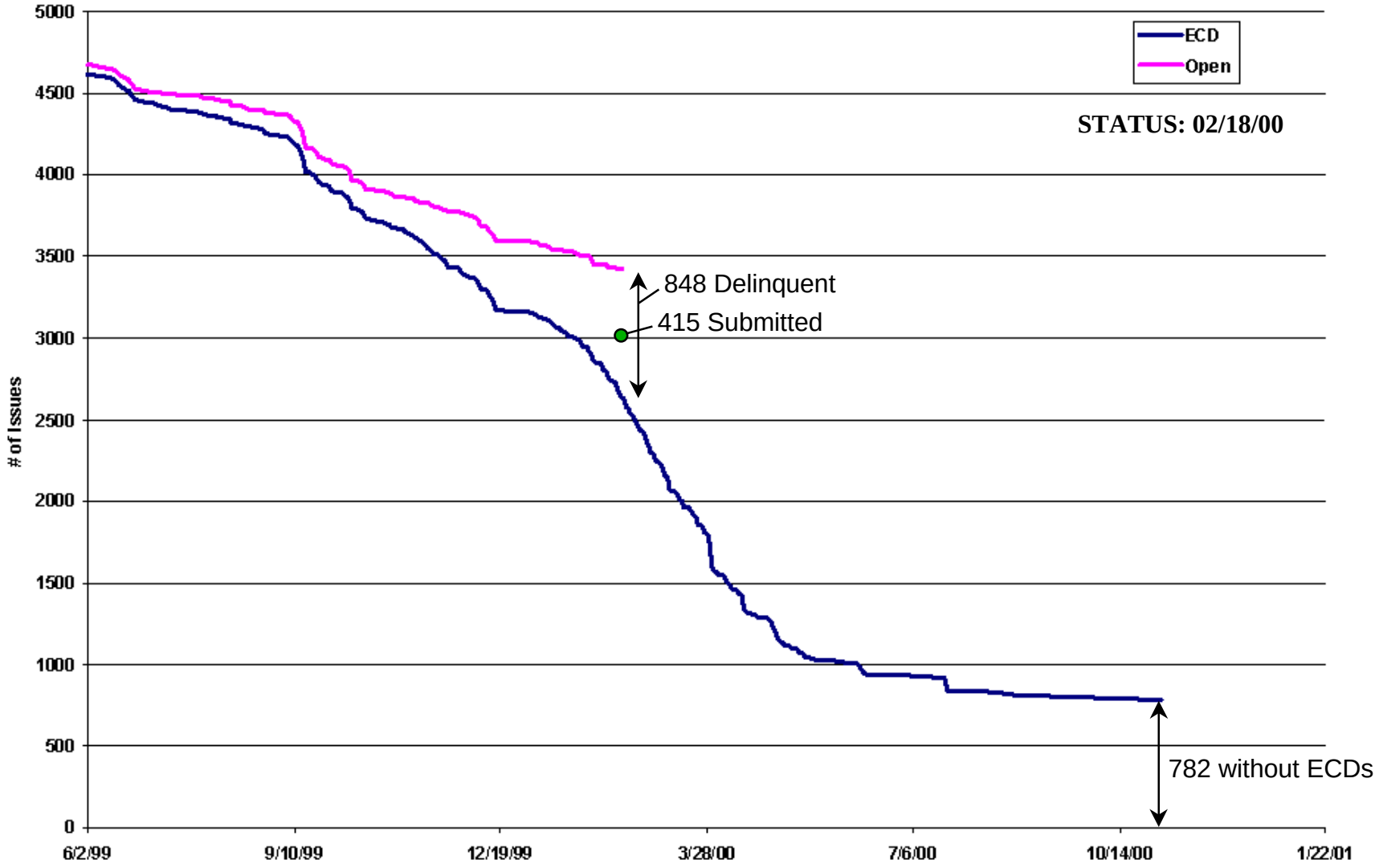
Line Item	Line Item Description	SCB Approval Req'd	Baseline	Current	Need	Actual
	US Lab Module (Jimmie Taylor)					
1	UOP (6 for Standoffs) O/D KSC	*	11/15/99	U/R 3/7/00 ~~3/1/00~~	4/1/00 ~~2/17/00~~	
2	GLA Bulbs O/D KSC *(QTY 8)*	*	12/1/99	3/3/00 ~~2/29/00~~ ~~1/31/00~~ ~~1/7/00~~	3/12/00 ~~2/23/00~~	
	US Lab Integration & Test (David Bethay)					
3	MEIT Support Complete		2/26/00	3/11/00 ~~3/5/00~~		
4	SSCS Test		2/19/00	2/24/00 ~~2/21/00~~		
	Software					
5	ARP Re-Convene *(Complete)*		2/18/00			2/18/00
6	EPCS FC TRR Release		2/16/00	2/28/00 ~~2/22/00~~	4/6/00	
7	CCS R1 FQT Complete		2/11/00	3/1/00 ~~2/25/00~~		
8	5A-7A Stage Test TRR #2		2/11/00	3/7/00 ~~2/28/00~~		
9	5A PEP FCA/PCA *(Start)*		2/22/00			2/22/00
10	5A PEP FCA/PCA *(Complete)*		2/25/00			
11	IFL 11.1 Release		2/28/00			
	Analysis & Verification (Chris Byrne)					
12	5A DVOs Baseline Compl ***(in progress)***		8/5/98	3/1/00		
	Shuttle Integ/Mission Ops (Chris Byrne)					
	Cargo Integration/Launch Site Processing (Chris Byrne)					

MEIT REPORT - CHARTS PROVIDED SEPARATELY

#	AoEs due to be discussed today:	Owner

*** Changes Require Schedule Change Board (SCB) Approval**

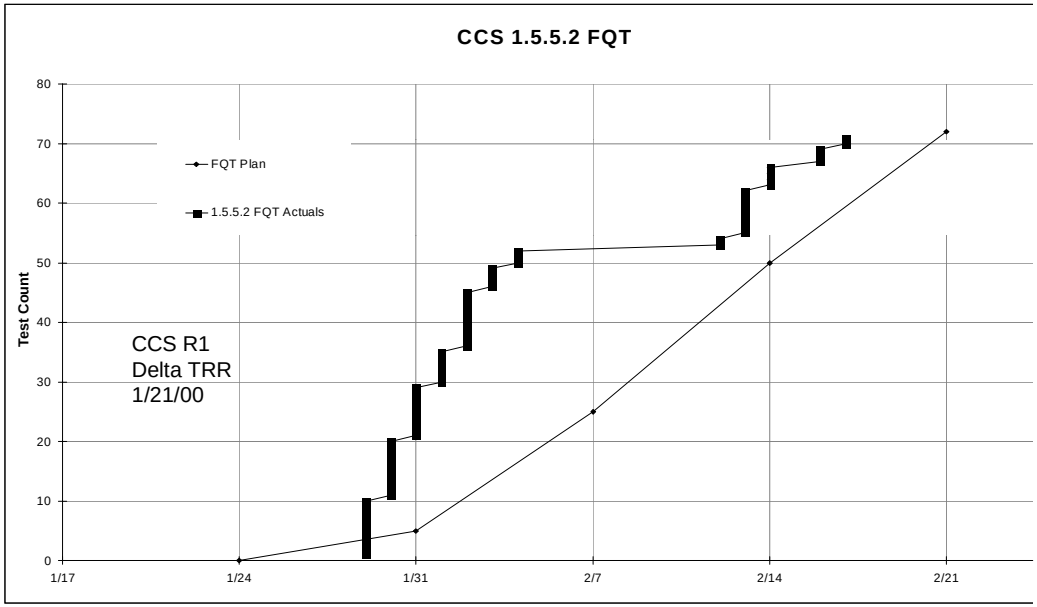
Flight 5A
Open Paper Burndown

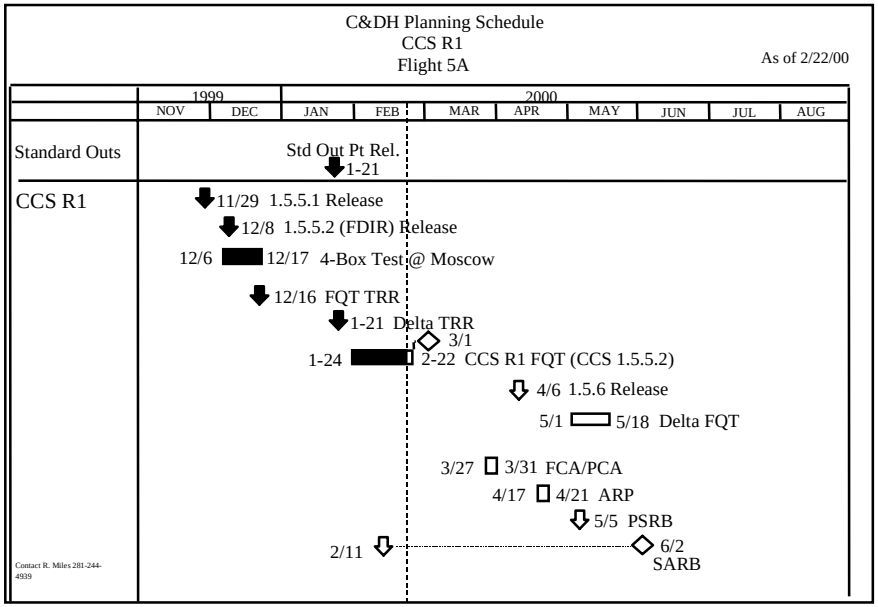


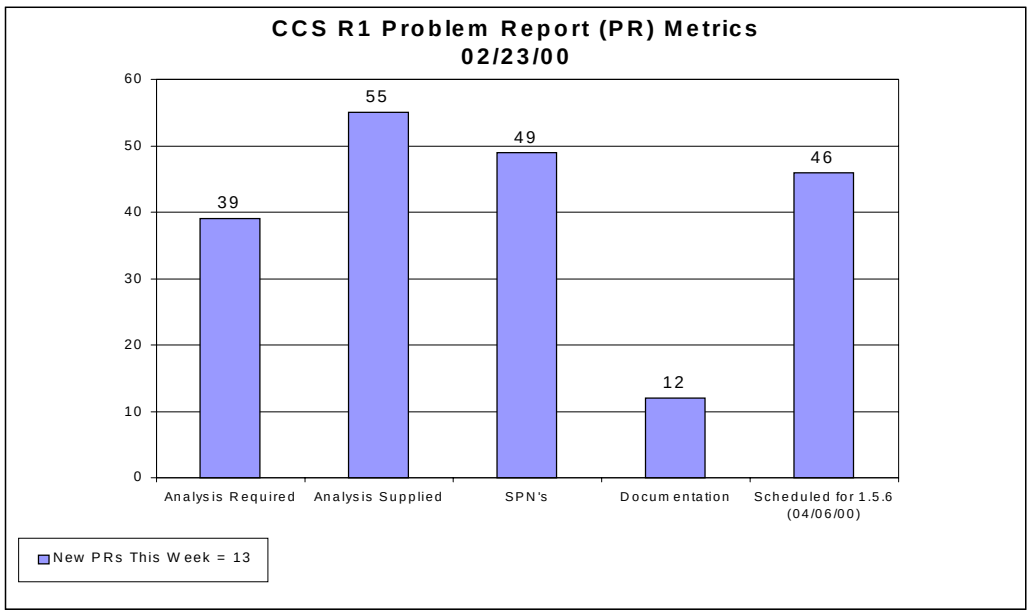
5A Open Paper Scorecard

Open Paper	Total Items	02-18-00 Open Items	02-11-00 Open Items	Close This Week	Added This Week	Past Due	No ECD	Comments
Stage Verification								
Stage Integration Review (SIR)	204	7	7	0	0	3	0	
Stage DVOs (Burn-up)	806	9	9	0	0	9	0	9 reqs currently in review / baselining cycle.
Stage VCNs (Burn-down)	806	617	622	5	0	10	0	17 submitted
End Item Verification								
CDR Issues	8	1	1	0	0	1	0	Open glass issue, ECD 2/29/00
Element Planning (Burn-up)	940	6	6	0	0	0	6	Associated with AIs and LVOCNs.
Element Closure (Burn-down)	940	427	431	4	0	43	1	277 submitted
FCA/PCA/AR Issues	1368	354	362	8	0	68	0	82 submitted
Lower Level Items								
Eng Releases	NA	63	65			17	39	
Non-Conformances	3750	352	419			8	30	
Open Planning (IRSOs)	NA	328	327			0	42	
CE Test Reports	26	11	11	0	0	0	0	
Squawks	57	14	14	0	0	2	0	
PRACA	361	91	90			1	18	25 submitted
SCANs, GIDEP Alerts	27	2	2	0	0	0	2	
ADPs	0	0	0	0	0	0	0	
S/W Open Items	4564	1017	1011	62	68	242	640	386 PCS/EPCS open items
VTLs	1303	94	94	0	0	43	0	
CILs	68	7	7	0	0	2	1	
Hazard Reports	46	13	13	0	0	0	0	
Safety NCRs	2	1	1	0	0	0	0	
AOEs	49	13	14	0	0	3	0	
Risks (RDMA)	168	16	16	0	0	11	3	
GFE	84	15	27	15	3	0	0	SIGI, SSSR, PDGF Cable Harness - total decreased because items are not OB GFE and are being worked by other boards
Total	**15577**	**3458**	**3549**	**94**	**71**	**463**	**782**	

COMMAND & CONTROL SOFTWARE, R1, FLIGHT 5A







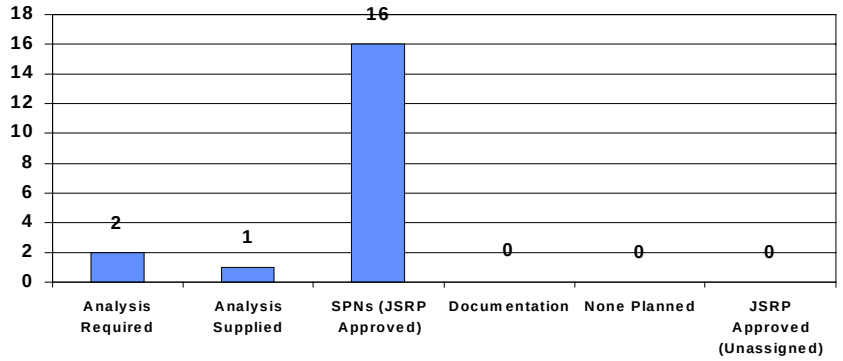
CCS Issues And Actions

status as of: 02/22/00

- CCS R1 FQT Started
  - Integration Tests Being Rerun (31 of 32 Complete)(ECD 2/25/00)
  - Completed 71 of 72 Formal Tests (ECD 3/1/00)
  - Test Report in Work
- Provided Analysis on 72 CCS R1 PR's for Special JSRP/ASCP Meetings
  - Designed to Permit CCS 1.5.6 PR's to be Baselined Through the ASCP This Week
- Supporting TC4R
- IPR Analysis Suffering Due to PR Work Above
- CCS R1 Design Documentation Clean-up in Progress

GN&C 5A Flight Software

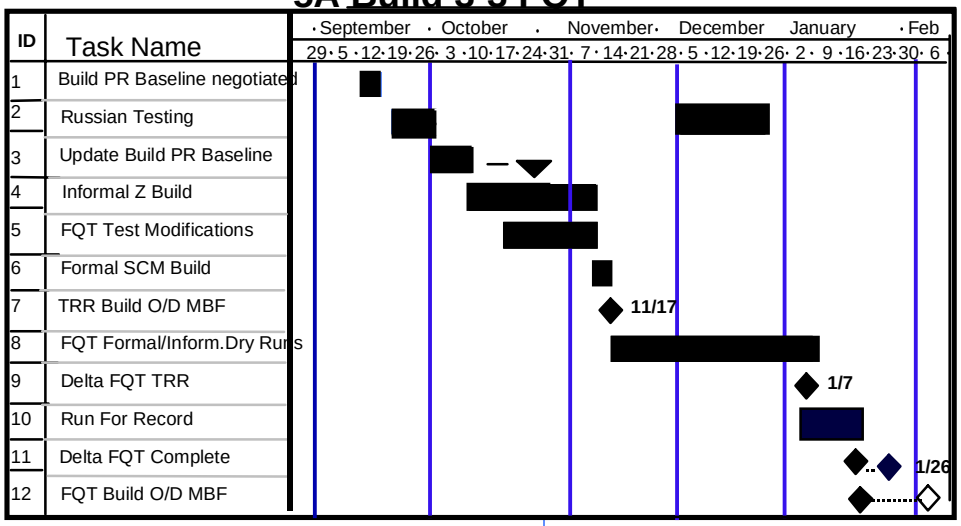
GNC Burn-down Metrics

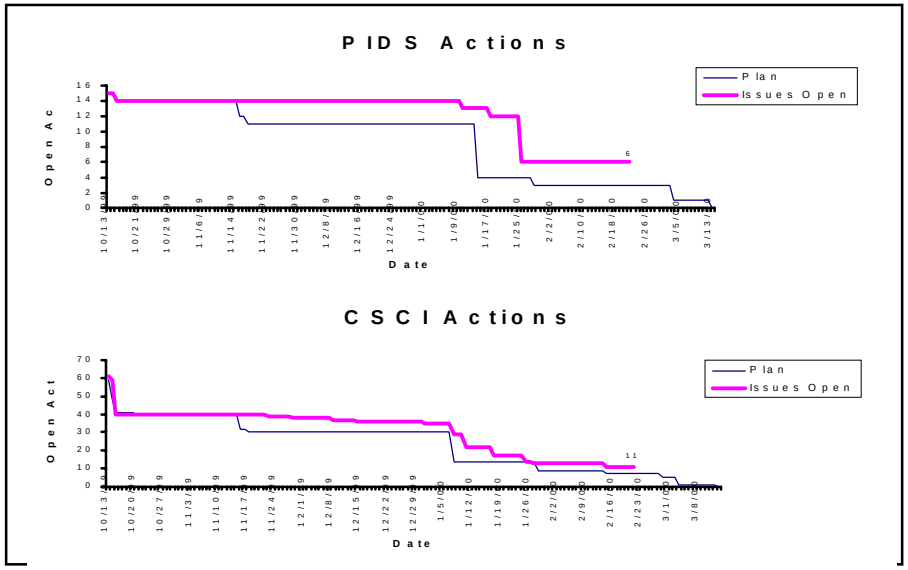


New PRs this week = 1

16980 (HB-PCR 1414) GF10.3 (ASC) Test Method is incorrect

5A Build 3-3 FQT





Significant Issues/Actions/Accomplishments

Activities/Accomplishments

- FCA/PCA Completed 4 remain open
- Delivered 3.3 release to MBF
- IPR 96 UA approved by MERB and ASCP

Concerns

- Version 3.3 FCA/PCA issue closure, and ARP Preparation cost to complete greater than estimated.

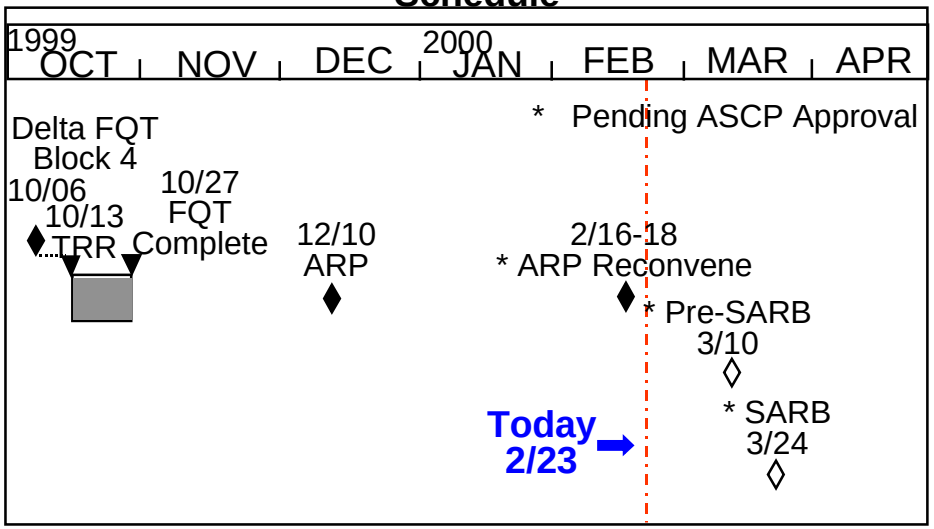
LSYS1, 2, & 3 Status

Status as of 02-23-00

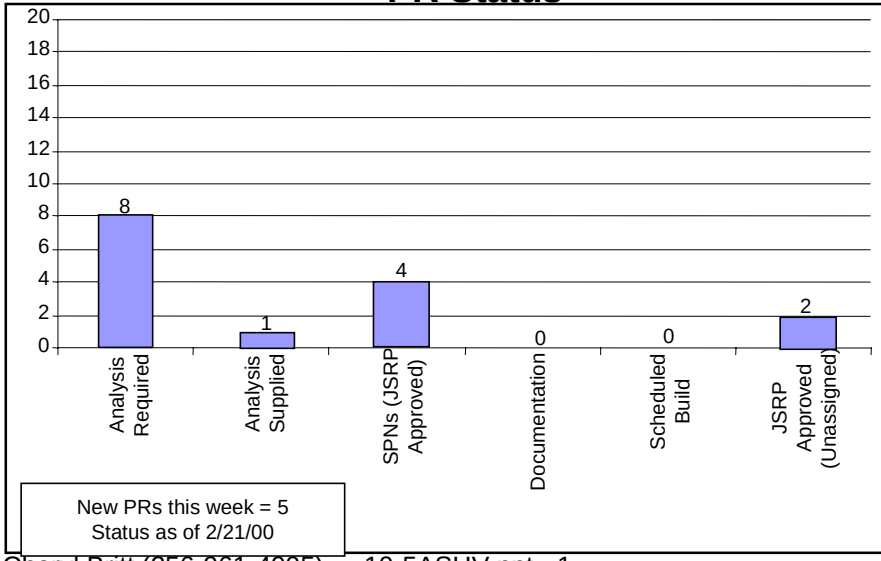
PRs Incorporated in Block 4

- 13325 Update Adaptation Load Spreadsheet (LSYS1)
- 13548 Remove Default EUC Family Values
- 14259 Implement CCAA TCCV Slowdown (LSYS1, & 2)
- 14293 Update Adaptation Load Spreadsheet (LSYS2)
- 14500 Checksum Table to Include MDM Boot Code Region (LSYS1, 2)

Schedule



PR Status



Significant Issues/Actions/Accomplishments

Accomplishments

- Conducted ARP reconvene, 2/16-18/00
- Closed 100% FCA/PCA Action Items
- Closed 83% ARP Actions

Actions

- Complete FCA/PCA ARP actions
- Prepare for Pre-SARB, 3/10/00
- Continue effort to obtain approval for CRs and waivers

Cheryl Britt (256-961-4905) -- 10-5ASHV.ppt - 1

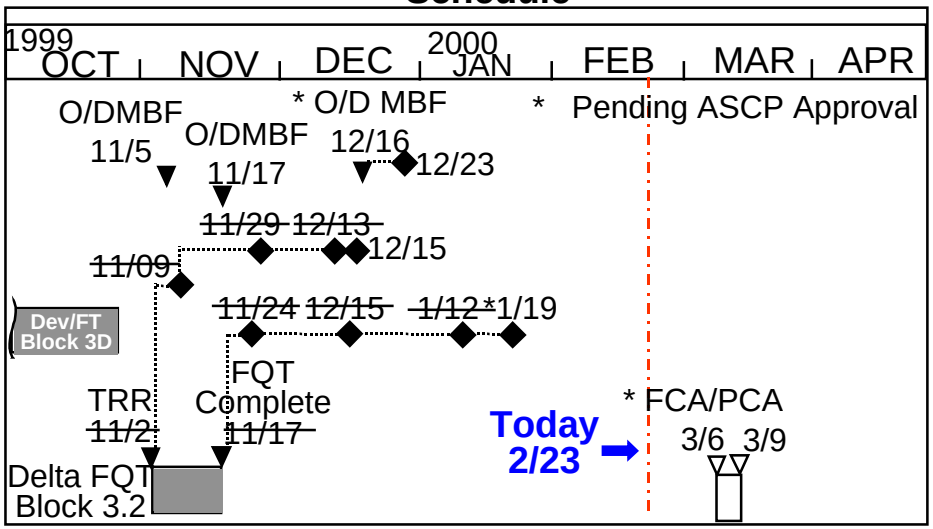
INTSYS 5A Block 3.2 Status

Status as of 02-23-00

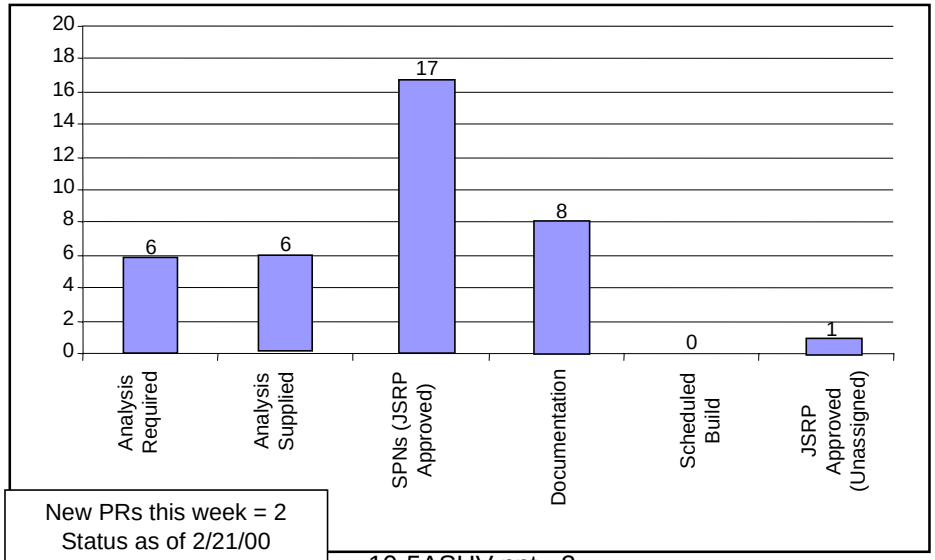
PRs Incorporated in Version 36

- 15921 MCA Status Not Set to Operate Failed
- 15988 CBM Override Set in Operator X Command
- 15898 ACS Passes Incorrect Airlock Status and Pressure
- 16224 MCA Time of Measurement Prematurely Updating
- 16226 MCA Rapid Sampling Not Working Appropriately
- 16231 MCA Autosequencing Sent Twice
- 16234 MCA Functional Override Card Format
- 16240 FRITCS Failure Recovery Inhibit States Cleared at Wrong Time
- 16337 LRITCS Leak Isolation in Single MT

Schedule



PR Status



New PRs this week = 2
Status as of 2/21/00

Significant Issues/Actions/Accomplishments

Accomplishments

- FQT test data analysis in-work
- Preparing for FCA/PCA, received authorization to proceed at Go/No-Go, 2/23

Actions

- PR analysis clean-up
- Conduct FCA/PCA
- Developing patch for PR 16607 (Node status to DRAM)

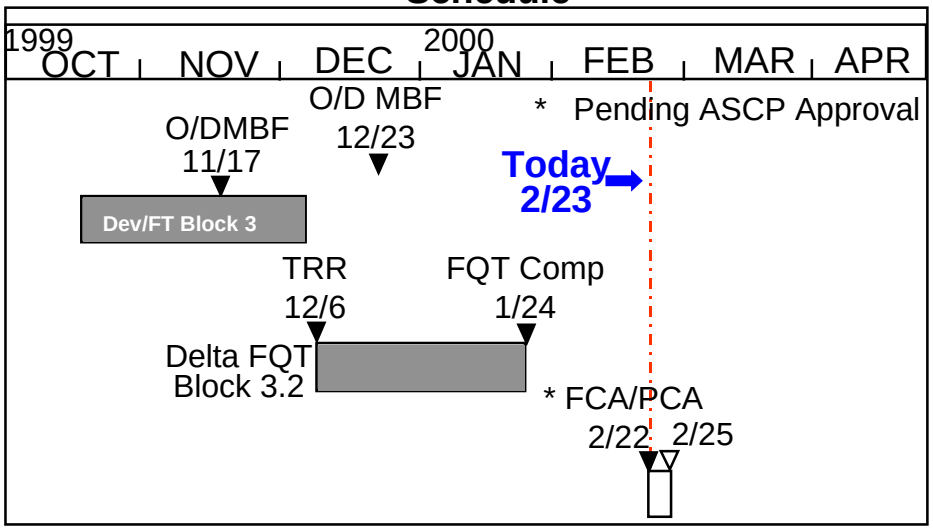
PEP 5A Block 3 Status

Status as of 02-23-00

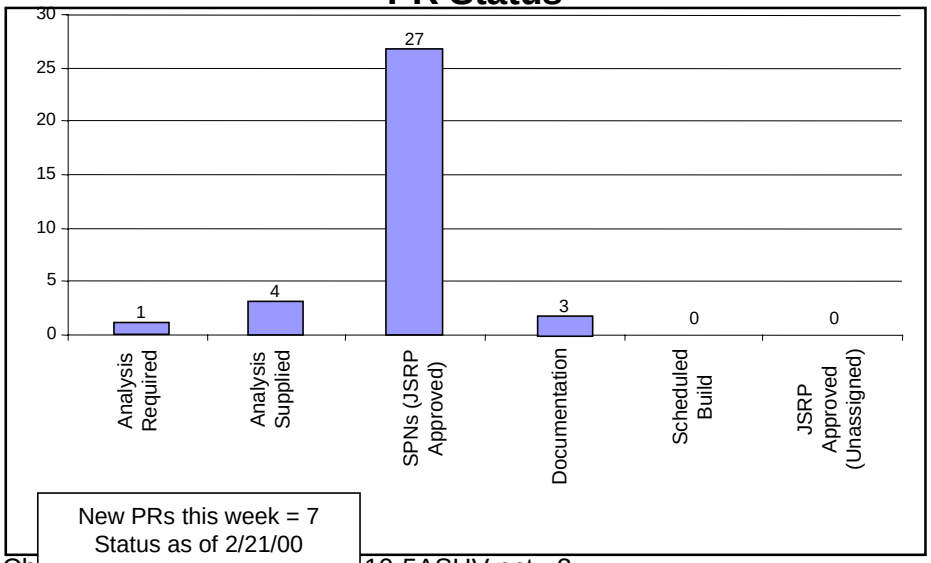
PRs Incorporated in Version 23

- 14745 PEP PCSS-5 PCS Initialization Data 32 Word Shift
- 16086 Updates to PEP FQT Procedure Information Table (PIT FQT1) for PEP Block 3 FQT
- 16420 PEP Correct File Attributes

Schedule



PR Status



Significant Issues/Actions/Accomplishments

Accomplishments

- Initiated FCA/PCA
- Completed Product SPEs and ERU release

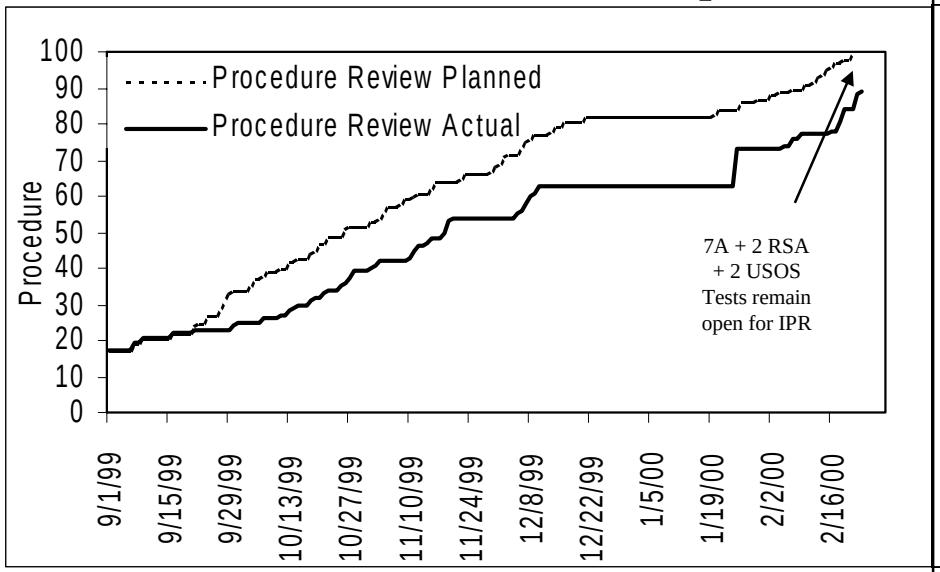
Actions

- PR analysis clean-up
- Conduct FCA/PCA

C&DH 5A/7A Stage Verification

Status as of 02/23/00

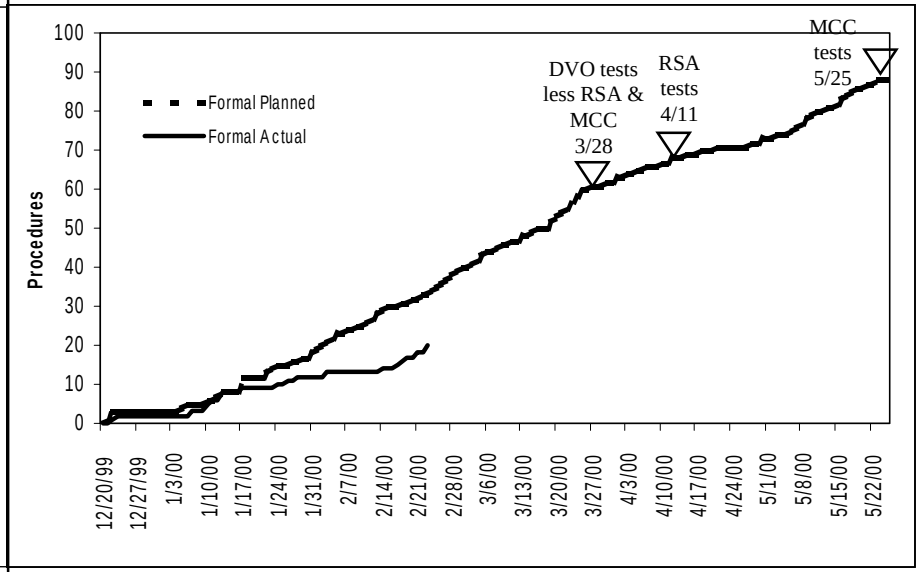
Overall Procedure Development



- **Status**
  - 2 USOS-RSA Procedures to review
  - 2 USOS-Procedures to review
  - All TRR #2 Procedure reviews complete by 2/23

- **RSA Tests**
  - RSA Target Completion Date assumes 2/25 arrival
  - Tests w/Russians is a 6 week flow
    - 1 week rig upgrades
    - 1 week dryruns + 4A Regression tests
    - 4 Weeks 5A Tests
    - Need independent plan to complete

Formal Test Runs



- **Status**
  - Completed 14 of 56 Formal DVO Test Procedures & 6 ICD tests completed - 13 Behind Plan

- **Recovery Actions**
  - Running 20x7 on ORD-2 and 5x8 on the ITR
  - Running Formals 1 to 2 Shifts/Day
  - When RSA arrives will run Formals 2 Shifts/Day

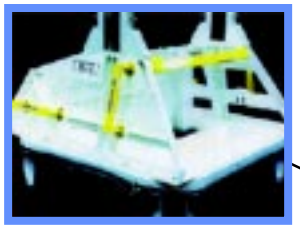
- **Concerns**
  - Some SM functionality may not be in 5A code
    - Load Shed, Mighty Mouse, SM Response to Rapid Depress, ASCR
  - Arrival Date for the Russians

Anita Truitt
244-4989

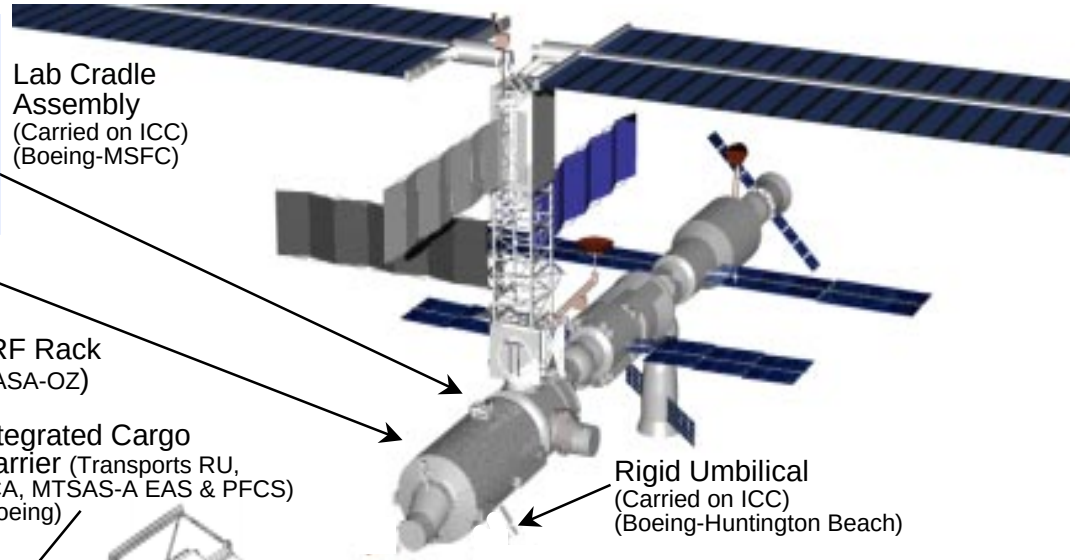
International Space Station
Flight 5A.1 (STS-102)
MPLM FM1, R/U, RSPs, HRF, ICC, MTSAS-A, EAS, PFCS, LCA, RSRs, ESP, Lab System Racks

Status as of: 2-23-00
RevE Assembly Sequence

MPLM FM1 - Multipurpose Logistics Module, Flight Module 1
ESP - External Stowage Platform
RSP - Resupply Stowage Platform
HRF - Human Research Facility
ICC - Integrated Cargo Carrier
MTSAS-A - Module to Truss Structure Attachment System - Active
EAS - Early Ammonia Servicer
PFCS - Pump Flow Control System
LCA - Lab Cradle Assembly
RSR - Resupply Stowage Rack
R/U - Rigid Umbilical

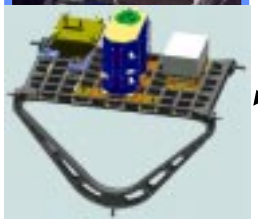


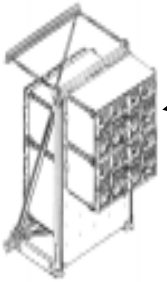
Lab Cradle Assembly
(Carried on ICC)
(Boeing-MSFC)



HRF Rack
(NASA-OZ)

Integrated Cargo Carrier (Transports RU, LCA, MTSAS-A EAS & PFCS)
(Boeing)





Rigid Umbilical
(Carried on ICC)
(Boeing-Huntington Beach)

Resupply Stowage Platform 1
(with CTBs & new strapping configuration) (NASA-OC)

Multi-Purpose Logistics Module FM1
(Transports racks to ISS Station)
(ASI/Alenia Spazio)

Cargo Integrated Review (CIR) 11-19

MTSAS-A O/D KSC 5-12

MPLM FM 1 Ready for Shuttle Integration 8-3

ICC Integration at SpaceHab Comp 8-31

EAS O/D KSC 12-22 (B) 6-15

RSP O/D KSC 11-11 (A)

LCA O/D KSC 10-15 (B) 12-23

RSR 1#-3# O/D KSC (3-17 B) 11-5 (A) thru 2-14 ~~10-5~~

HRF Rack-1 O/D KSC 5-19

Last Lab System Racks O/D KSC 6-19 ~~6-17~~

ICC O/D KSC 5-4 (B) 9-1

ICC Ready for Shuttle Integration 9-13

O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1999			2000											

(3-8 B) 2-19 MEIT (3-29 B) 3-11

Note: (B) = Contractual Baseline

127-16-5A.1-1 / GRFX / 2/25/00 9:39 AM

Flight 5A.1 (STS-102) Health Summary

Team	Tech	Sched	Remarks
Flight 5A.1 Overview	G	G	**TECH:** **SCHEDULE:** A CR has been approved to move the 5A.1 Launch Date to 10/19/00. **CR under review to move Launch Date to 2/15/01**
MPLM FM1 Cargo Element	G	G	**TECH:** **SCHEDULE**: MPLM-FM1 processing continues on schedule.
RSP1 – SS	G	G	**TECH:** Flight RSPs arrived at KSC with tripped accelerometers, an AOE has been created. Rack re-work complete **SCHEDULE:** The Flight RSPs were On-Dock at KSC on 11/11 . RSP Fence deliveries are UR (2/25 Need Date)
Human Research Facility (HRF) Payload	G	Y	**TECH:** **SCHEDULE:** HRF Rack-1 Turnover to KSC for On-Line Processing is expected on **6/5 (5/12 Need Date).**
Boeing-Provided Cargo Items Integrated Cargo Carrier (ICC)	G	G	**TECH:** **SCHEDULE:** The ESP (with UTAS) will be available for ICC Integration on 4/14 (was 3/1, 4/17 Need Date). ICC Turnover to KSC is currently set for 8/31.
Module to Truss Structure Attach System – Active (MTSAS-A)	G	Y	**TECH:** BHB has moved to a protoflight approach for the MTSAS. **SCHEDULE:** MTSAS-A On-Dock at KSC to support the Lab DPA Fitcheck on 5/12 (5/13 Need Date).
Early Ammonia Servicer (EAS)	Y	Y	**TECH:** FSE design is in work. **SCHEDULE:** EAS On-Dock at SpaceHab is 5/2/00 (6/15 proposed against a 5/2 Need Date). The Acoustic Test Article Baseplate Assembly completion is set for 5/9. EAS/FSE availablity for fitcheck is 4/20 (4/17 Need Date). Delivery of the Correlated Math Model to SpaceHab is 3/24 (3/24 Need Date). **The Vent Valve Delivery to the Flight Unit is UR. Developer optimistic about current round of Vent Valve tests with a modified seat.**
Pump Flow Control System (PFCS)	G	G	**TECH:** NASA concurrence on the PFCS OSE On-Orbit location occurred on 6/1. **SCHEDULE:** PFCS is in storage at KSC ready for turn-over to support 5A.1 ICC Integration or 5A LON.
Rigid Umbilical (RU)	G	G	**TECH:** **SCHEDULE:** RU is in storage at KSC ready for turn-over to support ICC Integration.
Lab Cradle Assembly (LCA)	G	G	**TECH:** CR#898 is to modify MTSAS (A/P), LCA, SLP w/ LDA, and constraint EVA ops. **SCHEDULE:** The LCA was O/D at KSC on 12/23. The Flight Unit is ready for integration with the MTSAS-A.
Resupply Stowage Rack (RSR)	G	G	**TECH:** **SCHEDULE:** First RSR is On-Dock at KSC. The last 2 racks arrived on 2/14/00.
Lab System Racks (5A)	G	G	**TECH**: **SCHEDULE:** The Last Lab System Rack will be turned over to LSP on 6/19 (was 6/17).
Analysis & Verification	G	G	**TECH:** **SCHEDULE:**
Shuttle Integration	G	G	**TECH:** **SCHEDULE:** The 5A.1 RCN (Annex 9) is scheduled for 4/3 (was 2/9).
Mission Operations	Y	Y ↓	**TECH:** Final SO released. Expect final CCS release in 4/00. There is significant threat that must-fix problems will cause MOD additional work 5A through UF-1. Review of freeze/seal break PRs, SPN development, and incorporation of SPNs into ops products is a major resource drain. Late maturation of MSS and RWS software along with other FSW causing increased technical (malfunction procedure) work for MOD because continued software development has delayed top down/bottom up effort. **SCHEDULE:**
Software	G	G	**TECH:** CR00737 approved to add the 51 Missing MPLM Telemetry Parametes to the 1/21/00 5A.1 Standard Out. **SCHEDULE:** STDOUT Re-Delivery completed on 1/21. 5A.1 PCS SW has been combined with 6A to create a new IFL 11.
Safety	G	G	**TECH:** **SCHEDULE:**
Cargo Integration/Launch Site Processing	G	G	**TECH:** **SCHEDULE:** MPLM FM 1 Mod Work is to complete on 3/8. **RWS A/T is set for 2/28.**

SCHEDULE: Zero or positive margin
TECH: Meets technical requirements; No significant issues

SCHEDULE: Negative margin with approved recovery plan with no impact to critical path
TECH: Does not meet requirements but has recovery plan. Open issues have recovery plans.

SCHEDULE: Negative margin without recovery plan or negative margin with critical path impact.
TECH: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

Improving ↑ **Worsening** ↓

Flight 5A.1 (STS-102) Performance to Plan

Week of: 2/20/00 - 2/26/00

Line Item	Line Item Description	SCB Approval Req'd	Baseline	Current	Need	Actual
NASA - Provided Cargo Items (GFE)						
	Multi Purpose Logistics Module (MPLM FM1)(Jim Graves/NASA-Thurs)					
1	FM1 Keel Camera Target Bracket Installation complete		2/22/00	~~3/1/00~~ 2/28/00		
	Resupply Stowage Platform (RSP) (Stan Donahoe/NASA-Thurs)					
2	Delivery of 5A.1 Fences 1st Set		1/29/00	~~2/10, 2/18~~ 3/17/00	~~2/25/00~~ 5/1/00	
3	Delivery of 5A.1 Fences 2nd Set			~~2/25/00~~ 3/17/00	~~2/25/00~~ 5/1/00	
	ISS Payload - Human Research Facility (HRF)(Ven Feng / NASA-Fri)					
4	Deliver ISIS Drawers to JSC for Integration		1/21/00	~~6/1/00~~ 6/30/00	~~4/20/00~~ UR	
5	Flight Rack Acceptance Test Program Complete		2/21/00	3/6/00	3/6/00	
6	Flight Rack O/D KSC		3/9/00	~~3/23, 5/15~~ 5/19/00	4/25/00	
7	Flight Rack Turnover to KSC for On-line Processing (PTCS)		3/17/00	~~4/11, 6/1~~ 6/5/00	5/12/00	
Boeing-Provided Cargo Items (CFE)						
	Integrated Cargo Carrier (ICC)(Jeff Crislip)					
8	EAS Flight Support Equipment (FSE) Structure Available		2/17/00			2/18/00
	External Stowage Platform (ESP) (Jeff Crislip)					
9	UTAS Qual Unit Assembly Complete (Started 12/8)		2/4/00	~~2/21/00~~ 2/24/00		2/24/00
10	UTAS Flight Unit Assembly Complete (Started 12/8)		2/4/00	~~2/25/00~~ 3/24/00		
	Module to Truss Struc Attach Sys. - Active (Roy Van Winkle)					
11	Final Delivery MTSAS-A to KSC		2/29/99	~~3/21, 4/21~~ 5/12/00	~~4/30, 5/10~~ 5/13/00	
	Early Ammonia Servicer (EAS)(Tim Carvalho)					
12	Modal/Static Test Start (ECD 4/18)		2/21/00			2/20/00
13	Isolation Valve ATP/Delivery (Started ~~12/13~~, 12/21)		1/23/00	~~2/4, 2/8 2/25~~, 3/3		
14	EAS Vent Valve Delivery to Flight Unit		2/2/00	~~2/4, 2/10~~ 2/25/00 UR		
15	Low Press Vent Valve ATP Comp. (Started 1/12/00)		2/2/00	~~2/10/00~~ 2/25/00		
16	Hi Press Vent Valve ATP Comp. (Started 1/12/00)		2/2/00	~~2/10/00~~ 2/25/00		
17	Acoustic Test Article Final Assembly Comp. (Started 12/10)		1/12/00	~~3/14,3/22 4/18~~, 5/9,		
	Analysis & Verification (Steve Prejean)					
18	EAS PH III Flight Safety Review (FSR)		2/22/00			2/22/00
19	EAS PH III Ground Safety Review (GSR)		3/1/00			
20	PFCS PH III Flight SPD Delivery		3/1/00			
21	ESP/UTSAS PH III Flight SPD Delivery		3/1/00			
22	CIL Approval MPLM ~~1/24~~ ~~2/7~~,2/28, MTSAS ~~1/18~~,3/1, RWS 4/17/00		4/17/00			
	Shuttle Integ/Mission Ops (Steve Prejean)					
23	TCM for 5A.1 Manifest (Approval OICB 3/16/00)		2/22/00	2/29/00		
	CI / Launch Site Processing (Richard Kuhns/Jeff Traylor/KSC)					
	MPLM (FM1) KSC Processing					
24	FM1 ECLS System Checkout (Start ~~1/31,~~ ~~2/22~~, 2/29)		8/27/99	~~12/9~~, ~~2/4 2/29~~, 3/7		
25	FM1 SVS Target Installation Complete		3/17/00			
26	FM1 Mod Work Complete (Started 2/14)		3/8/00	3/28/00		
	Lab Cradle Assembly (LCA) (Jimmie Taylor)					
	Resupply Stowage Racks (RSR)(Jeff Traylor)					
	Robotic Work Station (RWS) (Henry Orosco / NASA)					
27	RWS Final Acceptance		2/28/00			
	Pump Flow Control Sub-System (PFCS) (Tim Carvalho)					
	Rigid Umbilical (RU) (Debra Snapp)					

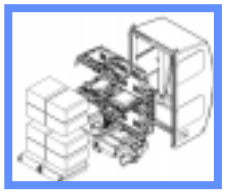
#	5A.1 AOE's due today:	Owner

*** =Changes Require Schedule Change Board (SCB) Approval**

International Space Station
Flight 6A (STS-100)
MPLM FM2, RSP, SSRMS, SLP, Payload Racks, MTSAS-P, UHF ADM and RSRs

Status as of: 2-23-00
Rev E Assembly Sequence

MPLM FM2 - Multipurpose Logistics Module Flight Module 2
RSP - Resupply Stowage Platform
SSRMS - Space Station Remote Manipulator System
SLP - SpaceLab Pallet
EXPRESS - Expedite the Processing of Experiment to Space Station
MTSAS -P - Module to Truss Structure Attachment System (Passive)
UHF ADM - Ultra High Frequency Antenna Deployment Mechanism
RSR - Resupply Stowage Rack



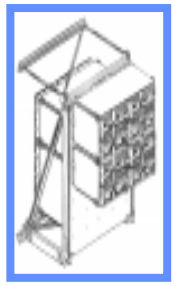
EXPRESS Rack
(Boeing-MSFC)
(NASA-OZ)

Spacelab Pallet
(Transports SSRMS, and UHF Antenna, (NASA))

Multi-Purpose Logistics Module (MPLM) FM2
(Transports racks to station)
(ASI/Alenia Spazio)

UHF Antennas
(Carried on SLP)
(Boeing-Huntington Beach)

SSRMS (Carried on SLP)
(Canadian Space Agency)



Resupply Stowage Platform

SSRMS

DCSU Spare
O/D KSC
~~2-13~~ 2-24

UHF ADM DD250
(2-28 B)
3-31

EXPRESS Rack #1
O/D MSFC
(10-18B)
2-21

EXPRESS Rack #2
O/D MSFC
(11-18 B)
4-25 ~~4-20~~

FRAM
O/D KSC
9-29

RSP
O/D KSC (3)
12-6

RSP O/D
KSC (1)
12-20
1-7

RSR (4)
O/D KSC
3-8

MTSAS-P
O/D KSC
(10-20-98 B)
~~3-31~~ 4-18

CIR
6-6 ~~3-14~~

FM2 Ready for Shuttle Integration
~~5-27~~ 9-30

SLP Ready for Shuttle Integration
10-25 ~~6-20~~

S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1999				2000											

(3-8 B)
2-19
MEIT
(3-29 B)
3-11

127-16-6A -1 / GRFX

Flight 6A (STS-100) Health Summary

Team	Tech	Sched	Remarks
Flight 6A Overview	G	G	**TECH:** **SCHEDULE:**
MPLM FM2 Cargo Element	G	G	**TECH:** **SCHEDULE:** FM2 FAR Mod works expected to complete on **03/10/00** (was 02/28/00).
RSP1 – SS	G	G	**TECH:** **SCHEDULE:** 3 RSPs delivered to KSC on 12/06/99. 4th RSP delivered to KSC on 01/07/00. **Delivery of 6A Fences on 04/14/00.**
SSRMS	G	G	**TECH:** **SCHEDULE:** SSRMS regression need date is now 02/18/00 to support TC4 Regression testing started on **02/19 (ECD 03/07/00)**
SLP with LDA	G	G	**TECH**: **SCHEDULE:**
EXPRESS #1 & #2 Payloads	G	Y	**TECH**: **SCHEDULE:** EXPRESS Rack #1: EX#1 DD250 from BHSV to NASA/MSFC **completed on 02/18/00 and signed on 02/21/00 (ECD 02/22/00).** EX#1 o/d at KSC is 04/24/00 with T/O from Utilization to KSC 05/03/00 (KSC need date 08/03/00). EXPRESS #2: Subsystem and cable integration is expected to complete on **03/16/00.** HSI starts 03/17/00 (ECD 03/30/00). Acceptance testing starts on 03/31 (ECD 04/20). EX#2 DD250 from BHSV to NASA/MSFC on 04/25/00. EX#2 o/d at KSC is 04/27/00 with T/O from Utilization to KSC 05/08 (KSC need date 08/03/00).
Boeing-Provided Cargo Items Module to Truss Structure Attach System – Passive (MTSAS-P)	G	Y	**TECH:** Moved to a protoflight approach for the MTSAS. T&VCP has concurred on this approach. **SCHEDULE: Proto-flight thermal acceptance test expected to start on 02/25/00. The preload verification MTSAS-A to P expected to complete on 04/07/00.** MTSAS-P O/D at KSC is currently projected on 04/18/00 (KSC need date 04/18/00).
UHF Antenna Deployment Mechanism (ADM)	G	G	**TECH**: **SCHEDULE:** DD250 to NASA is expected on **03/31/00** (KSC need date 03/31/00) **due to late arrival/testing of pip pins.**
Resupply Stowage Rack (RSR)	G	G	**TECH:** **SCHEDULE:** Total of 4 RSRs to be delivered. 3 RSRs are planned for KSC on 03/08/00 (KSC need date 03/08/00). 4th RSR (with R/RC configuration) is also planned for 03/08/00.
DC Switching Unit (DCSU) Critical Spare	G	G	**TECH**: **SCHEDULE:** DCSU FM01 on dock at KSC is set for **02/24/00 (was** 02/13/00).
6A Flight Releasable Attachment Mechanism (FRAM) for DCSU	G	G	**TECH**: **SCHEDULE:**
Analysis & Verification	G	G	**TECH**: **SCHEDULE:**
Shuttle Integration	G	G	**TECH**: **SCHEDULE:** Cargo Integration Review (CIR) is now planned for **06/06** (**was** 3/14) **(CR FPS750).** CR FPS723 baselined launch date, 11/30/00.
Mission Operations	Y	Y ↓	**TECH: Final SO released. Expect final CCS release in 4/00. There is significant threat that must-fix problems will cause MOD additional work 5A through UF-1. Review of freeze/seal break PRs, SPN development, and incorporation of SPNs into ops products is a major resource drain. Procedure development continues to be impacted by late/incomplete inputs and resource expenditures on earlier flight priorities. Focusing limited resources on critical needs (SSTF development and stage test support).** **SCHEDULE:**
Software	Y	Y	**TECH**: See Mission Operations comments **SCHEDULE:** See Mission Operations comments
Safety	G	G	**TECH**: **SCHEDULE:** All 6A Phase III Safety Reviews complete, except recently added DCSU critical spare & FRAM hardware.
Cargo Integration/Launch Site Processing (KSC)	G	G	**TECH:** **SCHEDULE:** LSA integration to SLP started on 06/03/99 (ECD 03/31/00 with KSC need date 03/31/00)

SCHEDULE: Zero or positive margin
TECH Meets technical requirements; No significant issues

SCHEDULE: Negative margin with approved recovery plan with no impact to critical path
TECH Does not meet requirements but has recovery plan. Open issues have recovery plans.

SCHEDULE: Negative margin without recovery plan or negative margin with critical path impact.
TECH Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

↑ **Improving**

↓ **Worsening**

Flight 6A (STS-100) Performance to Plan

Week of: 2/20/00- 2/26/00

Line		SCB Approval Req'd	Baseline	Current	Need	Actual
NASA-Provided Cargo Items (GFE)						
	Multi-Purpose Logistics Module (MPLM FM2)(Jim Graves/NASA-Thurs)					
1	FM2 Keel Camera Target Bracket Installation complete		2/17/00	~~2/24~~ 2/25/00		
2	FM2 Keel Trunnion Delivery Complete		2/25/00	3/1/00		
3	Flight Module 2 PPRV installation complete		3/8/00			
4	FM2 Keel Trunion Replacement complete		3/10/00			
	Resupply Stowage Platform (RSP)(Stan Donahoe/NASA-Thurs)					
	Delivery of 6A Fences		4/14/00			
	ISS Payloads - EXPRESS Racks 1 & 2 (V. Feng / NASA-Fri)					
5	EXPRESS #1 DD250 to MSFC from BHSV		2/15/00	2/22/00	4/2/00	2/21/00
6	EXPRESS #1 O/D KSC		4/24/00		4/24/00	
7	EXPRESS #1 Turnover from Utilization to KSC		5/3/00		8/3/00	
8	EXPRESS #2 ARIS Subsystem & Cable Integration complete		2/25/00	3/16/00		
9	EXPRESS #2 HSI start (complete ~~3/6~~ 3/30/00)		2/26/00	~~2/28~~ 3/17/00		
10	EXPRESS #2 Acceptance Test complete (start ~~3/7~~ 3/31/00)		4/3/00	4/20/00		
11	EXPRESS #2 DD250 to MSFC from BHSV		4/20/00	4/25/00	U/R	
12	EXPRESS #2 O/D KSC		4/27/00		4/27/00	
13	EXPRESS #2 Turnover from Utilization to KSC		5/8/00		8/3/00	
Boeing-Provided Cargo Items (CFE)						
	Module to Truss Struc Attach Sys. - Passive (R. Van Winkle)					
14	Proto-flight Thermal AT MTSAS-P (start)		2/21/00	~~2/23~~ 2/25/00		
15	Preload Verification MTSAS-A to -P (LDA) complete			~~2/8~~ 4/7/00		
16	MTSAS-P O/D KSC		2/7/00	~~2/17~~ ~~3/31~~ 4/18/00	~~2/22~~ ~~3/31~~ 4/18/00	
	UHF Antenna Deployment Mech. (J. Dawe)					
17	UHF ADM DD250		12/14/99	~~1/17~~ ~~2/28~~ 3/31/00	3/31/00	
	Resupply Stowage Racks (RSR) (Jimmie Taylor)					
18	RSR O/D KSC (QTY 3)		11/30/99	3/8/00	~~3/8~~ 7/19/00	
19	RSR O/D with R/RC (QTY 1)		11/30/99	3/8/00	~~3/8~~ 7/19/00	
	6A FRAM for DCSU (J. Gafford)					
Mission Software (P. Geery/J. Simpfenderfer)						
20	5A-6A IFL 11.1		2/28/00			
Analysis & Verification (Thomas Tran)						
Shuttle Integ/Mission Ops (Thomas Tran)						
CI / Launch Site Processing (T. Corey - F. Warga / KSC - Thurs.)						
	Multi-Purpose Logistics Module (MPLM FM2) KSC Processing					
21	FM2 Mod Work (Start 10/29 (A))		12/13/99	~~2/28~~ 3/10/00		
	Space Lab Pallet w/Launch Deplymt. Assy. (SLP w/ LDA)					
22	Install LSA on Pallet Complete		7/2/99	~~12/17~~ ~~1/21~~ ~~2/18~~ 3/31/00	~~1/21~~ 3/31/00	
	Space Station Remote Manipulator Sys. (SSRMS)					
23	SSRMS begin MEIT TC4 Regression Test		2/14/00	~~2/18~~ 2/19/00		2/19/00
24	SSRMS released from MEIT TC4 Regression Test		3/8/00			

6A AOE'S TODAY

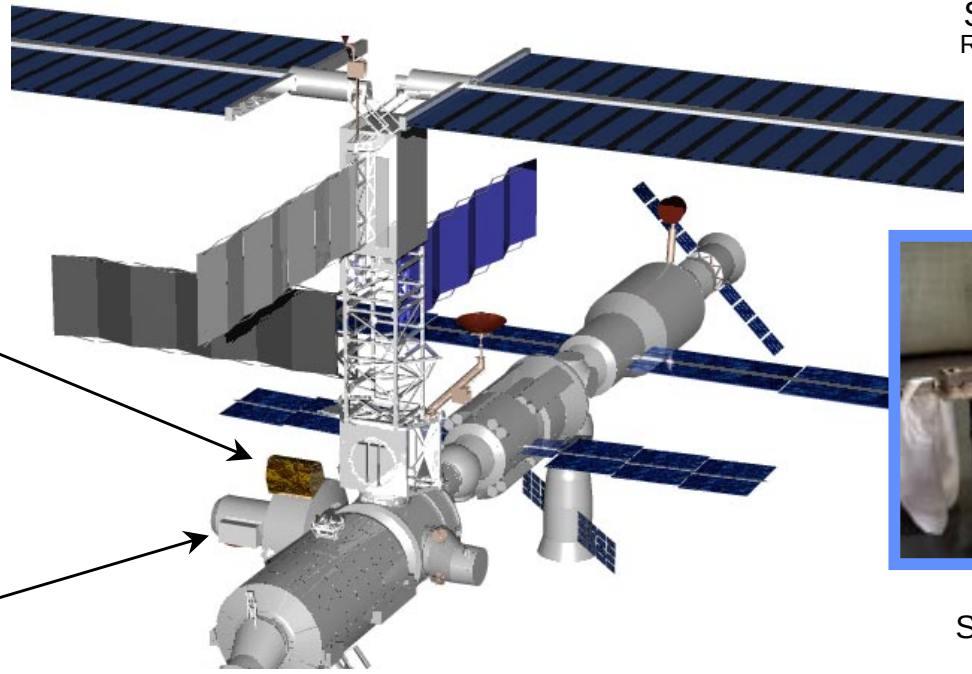
	None --

*** = Changes Require Schedule Change Board (SCB) Approval**

International Space Station
Flight 7A (STS-104)
Airlock and High Pressure Gas

Status as of 2-24-00
Rev E Assembly Sequence

O_2N_2 High Pressure Gas
(Attached to Airlock)
(Boeing-MSFC)



Airlock
(Equipment Lock and Crew Lock)
(Boeing-MSFC)

O_2N_2 ORU
Spacelab Pallet Adapter

0_2N_2HPGT Qty 2-0_2 & 2- N_2 Assy & MLI/MD Shield Inst Comp
(11-25 B)
~~3-7~~ 3-24

Ethernet Characterization / PDCO Comp. 7-28

0_2 Test Comp (12-4 B) 3-14

Airlock FCA/PCA Part 1 Comp 3-31

Airlock O/D KSC 5-31

Airlock Leak Test Comp 7-5

Flight Closeouts Comp. 9-12

Airlock 0_2N_2 Systems Inst Comp (10-3 B) 11-24

Airlock Functional Level Test (10-27 B) 12-20

SPCE Test Comp (1-20 B)

ORCA Integ Test Comp (11-20 B) 3-14

0_2N_2 HPGT Qty 4-0_2 & 2- N_2 O/D (12-10 B) 4-3

Airlock FCA/PCA Final Comp 5-26

Airlock, 0_2N_2 HPGT, and Adapter ARB 6-27

Off Gas/DPA Test Comp. 8-29

Ready for Turnover to Shuttle 9-12

N	D	J	F	M	A	M	J	J	A	S	O
1999		2000									

6-6 Leak Test 7-5

Flight 7A Health Summary

Team	Tech.	Sched.	Remarks
Flight 7A Overview	**Y**	**Y**	
Airlock Module	**Y**	**Y**	Tech: O2 system exposure test ESD now 3/3 due to delays in test procedure prep. **TORR completed 2/21. O2 test readiness independent assessment team reconvened 2/22-2/23. 571 fit check of vestibule O2/N2 hoses complete 2/23.** Sched: SPCU HX leak integrity test ECD week of 3/6. Airlock O/D KSC is 5/31.
GFE	**Y**	**Y**	Tech: **FPU and UIA SAR ECD 2/29.** Data review period extended. Sched: Qual **ORCA O/D JSC 2/25 for vib and EMI qual tests**. Flight ORCA to be used in integrated Airlock O2 testing and to conduct ORCA fit check with Airlock.
O2/N2 Tank ORUs	**G**	**Y**	Tech: Scratches and discoloration found during receiving inspection of SLP adapters at KSC. M&P assessing discoloration. Scratches, expected to use as is. **ECD for assembly and MLI installtion complete of first four HPGTs 3/24.** Sched**:** O2/N2 ORU O/D KSC is 4/3.
Spacelab Pallet	**G**	**G**	Tech: All SLDP Phase II safety hazards approved by SRP and Phase II review is complete. Sched: Orthogrid heater mat thermostat transient emissions test completed at MSFC 1/14.
Software	**G**	**G**	Sched: **ALSYS1 ARP reconvene completed on 2/18.** PCS engineering release completed 1/11. **ALSYS1 ARB ECD 3/24**
Shuttle Integration	**G**	**G**	Tech: Feb launch projected APM=800# with 1200# OMS margin, max hd ballast, Blk IIA MEs. Sched: MIP Annex I baselined 2/16.
Analysis & Verification	**Y**	**Y**	Tech: 7A Mal Proc input to MOD slid to mid 2000 due to higher priority of earlier flights. Sched: FCA/PCA metrics; 648 total VCNs, **445 to NASA and 343 bilateral approved**. All lower level FCA/PCA complete except SLDP adapter; 56 FCA/PCA actions remain open.
Safety	**G**	**G**	Tech: Acceptance of NCR for Acoustic violation ECD now 2/28. 7A Phase III safety review completed 2/11. 7 new actions, 10 new issues, 5 of 12 prior actions closed, 4 of 9 prior issues closed, 25 of 45 HRs approved. No impacts to hardware design.
Mission Ops.	**G**	**Y**	Sched: 1) Plan for 7A-UF-1 FSW and SO is under dev. MOD working with the Program to determine if these should be frozen with 1/21 SO and 4/00 CCS 1.5.6 releases. 2) SSTF dev schedule is still a threat because of the greater-than-planned expenditure of resources on the preceding flights. 3)Procedure dev to support SODF publication dates is showing impacts of resource expenditures on earlier flight priorities. Focusing limited resources on critical needs (SSTF dev)

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative margin with critical path impact.
Tech: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

Improving **Worsening**

DSSICB: 2/25/00

Flight 7A (STS-104) Performance to Plan

Week of 2/20/00 - 2/26/00

Line Item		SCB Approval Req'd	Baseline	Current	Need	Actual
	Airlock (F. McCall)					
1	**AL External A&CO *(In Progress)***	*	5/16/00			
2	External Structures & Utilities Installation *(Complete)*		3/5/00			
3	MLI / MD Shield Installation *(Start)*	*	2/28/00			
4	**AL Internal A&CO *(In Progress)***		3/22/00			
5	Install O2/N2 Heat Plate *(Complete)*		1/31/00	2/28/00 ~~2/25/00~~ ~~2/20/00~~ ~~2/18/00~~		
6	Internal Outfitting and Test *(Complete)*		3/22/00			
7	571 O2/N2 Hose Fit Checks		2/24/00			2/23/00
8	Oxygen Introduction / Exposure Test *(Start)*		11/21/99	3/3/00 ~~2/23/00~~ ~~2/15/00~~		
	O2/N2 Tanks (F. McCall)					
9	AL O2/N2 HPGT (Qty 2-O_2 & 2-N_2) Assy *(In Progress)*	*	8/12/99	3/15/00 ~~3/3/00~~ ~~2/25/00~~ ~~2/21/00~~		
10	AL O2/N2 HPGT (Qty 2-O_2 & 2-N_2) MLI Installation *(In Progress)*		10/22/99	3/24/00 ~~3/7/00~~ ~~3/1/00~~ ~~2/4/00~~		
11	AL O2/N2 HPGT Fit Check Measurements *(Start)*		2/5/00	3/1/00 ~~2/10/00~~		
12	AL O2/N2 HPGT (Qty 2- O_2) Assy *(In Progress)*	*	9/1/99	3/15/00 ~~2/28/00~~ ~~2/4/00~~ ~~12/4/99~~		
13	AL O2/N2 HPGT (Qty 2-O2) MLI Installation *(In Progress)*		10/22/99	3/24/00 ~~3/14/00~~		
	Software (C. Britt)					
14	ARP Re-Convene *(Complete)*		2/18/00			2/18/00
	Spacelab Pallet (E. Duncan)					
	GFE (S. Donahoe)					
15	ORCA Qual Unit Returned to JSC		2/22/00	2/25/00	2/22/00	
16	FPU / UIA SAR *(Complete)*		2/29/00			
	Analysis & Verification (N. Prince)					
17	O2 Test Procedure Independent Review Reconvene		2/22/00 - 2/23/00			2/23/00
18	System Operations Data File - Preliminary Delivery		11/18/99	2/23/00		2/23/00
	Shuttle Integ/Mission Ops (N. Prince)					
19	STS 104 Cargo Compatibility Review		2/25/00			

*** Changes Require Schedule Change Board (SCB) Approval**

#	AoEs due to be discussed today:	Owner

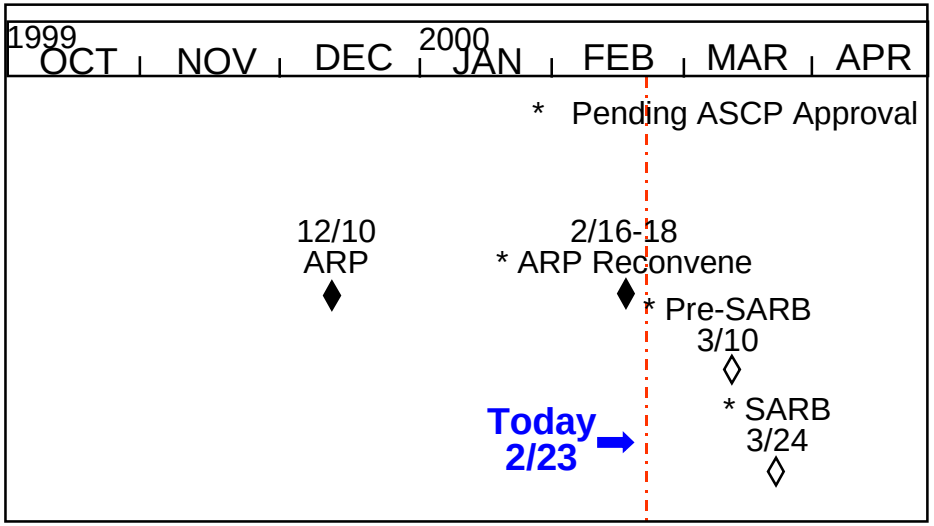
ALSYS1 7A Status

Status as of 02-23-00

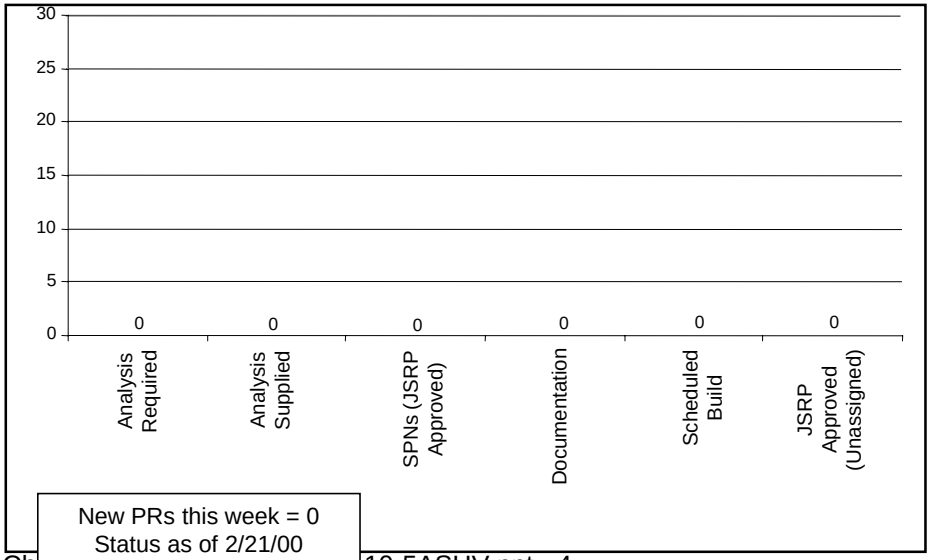
PRs Incorporated in Version 16

- 7916 Frame Overrun Occurs When Bus Switch Commanded A
- 9411 INTSYS Can't Be Correctly Reinitialized After Comma
- 12640 Fix LIF Files With Multiple LDP ID
- 12641 Unused Portions of the Patch Index Region Need Zeroized
- 12889 Provide MDM Buffer Log and Diagnostics Address
- 12927 Fix Script to Disable Confirmation Prompt On File
- 13078 Update the Adaptation Load Data Spreadsheet for ALSYS
- 13229 Insert LSYS1 Config Table Into CMS Library
- 13235 Remove LA1_Health_Checksum_Table_S.Ada From the Build Class
- 13335 INT MUE Set Time Command Causes Frame Count F
- 13356 Unable to Change DRAM Values From PPL EEPROM Images
- 13548 LSYS1 Adaptation Data Contains Unused Files
- 13550 EEPROM Checksum Error Counter In LSYS1
- 14259 Implement CCAA TCCV Slowdown to Prevent Conden
- 14274 LSYS1: Binary File
- 14500 Change checksum Table

Schedule



PR Status



Significant Issues/Actions/Accomplishments

Accomplishments

- Conducted ARP reconvene, 2/16-18/00
- Closed 100% FCA/PCA Action Items
- Closed 67% ARP Action Items

Actions

- Complete FCA/PCA ARP actions
- Prepare for Pre-SARB, 3/10/00
- Continue effort to obtain approval for CRs and waivers

International Space Station
Flight 8A (STS-108)
S0 Truss, Mobile Transporter

Status as of 2-23-00
Assembly Sequence, Rev. E (Mod)

Flight S0 Truss
(Boeing - KSC)

Mobile Transporter
(Astro-Santa Barbara) @KSC

Start CKT 1000 Testing 1-5

Comp PRI Pwr Dist 3-18

SO Ready for MEIT II (TC2-1) 5-4-00 (B) 7-14

Complete TC2-1 (S0) ~~9-11~~ 10-16

CoFR 1 2-9-01 (B) ~~2-1~~ 10-2

MT Installation (S0) Comp ~~11-23~~ 2-4

Comp MT Functional 2-21

Flight S0 Accept Test & Integ Comp ~~3-31~~ 7-14

Comp S0 Final Config for 8A Flight ~~10-14~~ 11-29

Start TC2-4 (S0, S1, P1,P3) ~~3-13~~ 2-24

TC2-4 Comp ~~4-24~~ 4-18

Start MEIT 2 Regression 1-29-01 (B) ~~7-23~~ 7-25

Ready for Turnover to Shuttle 1-29-01 (B) ~~4-17~~ 9-20

CoFR 2 3-8-01 (B) ~~5-3~~ 10-30

D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
1999	2000												2001										

Note: (B) = Contractual Baseline

9-21 MEIT II 8-26

127-16-8A-1 / GRFX/ 2/25/00 6:58 AM

Status to Rev E (MOD) Launch and Rev B3 Truss Assembly

Flight 8A Health Summary

Team	Tech	Sched	Remarks
Flight 8A Overview	G	Y	Tech: No significant issues. Sched: Two shift acceptance testing in progress at KSC. Due to the revised Integrated scheduled dated 2/7, ORUs and software loads are meeting the projected need dates
MT Flight	G	G	Tech: Working Part 2 FCA/PCA Issues. Sched: The MT was floated onto the S0 rails on 2/10. MT functional testing started on 2/15 and was successfully completed on 2/21.
S0 STA	G	G	Tech: No significant issues. Sched: Static Loads Testing was successfully completed on December 6, 1999. The test team will now perform a more indepth evaluation of the data and release a final report when complete. The STA was shipped and arrived in Houston as scheduled on February 5, 2000.
S0 Flight	G	Y	Tech: No significant issues. Sched: CKT testing was completed on 1/29. .Installation of the mobile transporter was completed on 2/10. MT functional testing sompleted on 2/21. Video Switch Functional testing is scheduled to start in mid March. The accelerated start date is a workaround due tp conflicts with flight software deliveries.
ORU Development	G	Y	Tech: No significant issuest. Sched: Based on the latest Integrated schedule dated 2/7, several of the ORU on-dock dates previously exceeding the need now arrive to support the need.
Software	Y	Y	Tech: Currently defining the minimum functionality requirements to support MEIT. Sched: Software deliveries are impacting acceptance testing progress. Based on the latest Int. Schedule dated 2/7, software deliveries are within the need timeframe.
Shuttle Integration	G	G	Tech: No significant issues. Sched: The 8A MIP is being baselined. The next release is expected in late February 2000.
Analysis & Verification	G	G	Tech: No significant issues. Sched: No significant issues.
Safety	G	G	Tech: No significant issues. Sched: No significant issues.
Operations	G	Y	Tech: No significant issues. Sched: MOD is assessing the Boeing FSW replan to determine our ability to support it including MEIT 2 and crew/controller training.

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative margin with critical path impact.
Tech: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

Improving **Worsening**

February 25, 2000

Flight 8A (STS-108) Performance to Plan

Weeks of 1/04/00 - 2/26/00

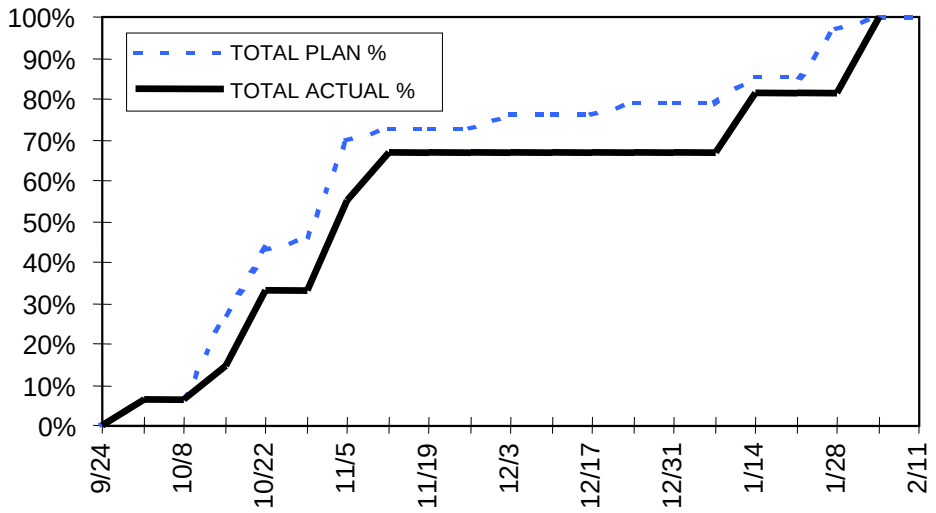
Line Item	Line Item Description	SCB Approval Req'd	Baseline	Current	Need	Actual
	S0 STA (Dan Clark)					
1	Ship S0 STA from HB to Houston (Work Complete)		1/26/00			2/5/00
	S0 Flight ORU's (Dan Clark)					
2	Recv. Flt TUS IUA @ KSC	*	8/16/99	~~3/7/00~~ ~~3/16/00~~ 4/7/00	~~3/15/00~~ 4/17/00	
3	CETA Light Boom (Rework'd by HSV) O/D KSC	*	10/15/99	~~12/15/99~~ ~~3/1/00~~ 3/15/00	~~3/20/00~~ 3/27/00	
4	MBSU Flight #2 O/D KSC for Pri Pwr Dist Test	*	10/26/99		~~11/23/99~~ 2/23/00	2/7/00
5	DDCU-E O/D KSC (EM05)	*	11/1/99		~~2/7/00~~ ~~2/15/00~~ 2/18/00	2/18/00
7	DDCU-E O/D KSC (EM07)	*	12/10/99	~~2/14/00~~ ~~2/18/00~~ 2/22/00	~~2/7/00~~ ~~2/15/00~~ 2/18/00	
8	Motorized Bolt Ass'y (8ea)	*	12/14/99	~~2/23/00~~ ~~3/9/00~~ 3/21/00	~~1/28/00~~ ~~3/1/00~~ 4/3/00	
9	UMA - Active	*	1/10/00		1/27/00	2/7/00
10	UMA - Passive (1 of 4)	*	1/30/00	~~2/18/00~~ 2/23/00	~~2/14/00~~ 5/15/00	
11	Capture Latch Assy (Mod Kits)	*	1/15/00	~~2/15/00~~ ~~2/25/00~~ 3/1/00	~~2/15/00~~ ~~3/1/00~~ 3/15/00	
12	BBC #4	*	2/15/00		3/1/00	2/3/00
13	UMA Active 2 of 2	*	3/14/00		5/15/00	
14	SCU #2	*	3/15/00		3/27/00	
	S0 Flight (Rick Pepper)					
15	Complete MT Installation		10/27/99			2/12/00
16	Start RGA Functional Testing		12/16/99	~~2/15/00~~ ~~2/18/00~~ 3/23/00		
17	Complete SEPS Testing with Type IV RPCM's		2/4/00			2/4/00
18	Start Installation of TUS IUA		2/4/00			2/10/00
19	Start Installation of UMA - Active		2/8/00			2/10/00
20	Start TUS Functional Testing		2/9/00			2/14/00
21	Start MT Functional Testing		2/14/00			2/15/00
22	Complete MT Functional Testing		2/26/00			2/21/00
23	Complete Install of MBSU's & DDCU-E(EM's)		2/26/00			
24	Start Primary Power Distribution Tests		2/28/00			
25	Start Fiber Optic Post Installation Testing		3/1/00			
26	Complete Primary Power Distribution tests		3/18/00			
27	Start Video Switch Functional Testing		3/20/00			
28	Start SAS CLA RTL Functional Testing		3/28/00			
	Mission Software (Jim Simpfenderfer)					
29	EXT-1 IFL 0.4 ECZ (MT) O/D KSC		11/24/99		2/4/00	2/2/00
	Analysis & Verification (Steve Grebel)					
30	FCA / PCA for TUS, CGA, Reel		1/25/00	3/10/00		
	Shuttle Integ/Mission Ops (Steve Grebel)					

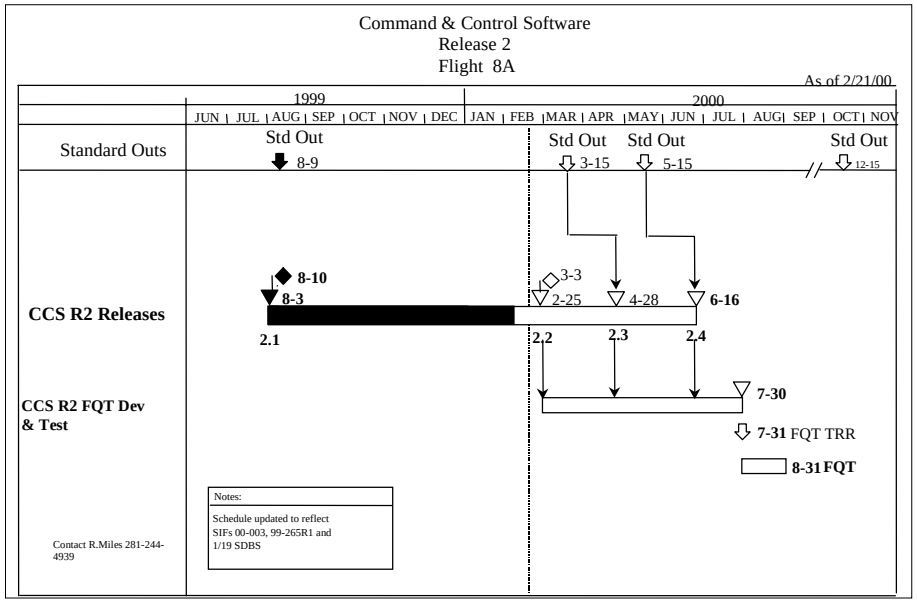
#	AoEs due to be discussed today:	Owner

*** = Changes Require Schedule Change Board Approval**

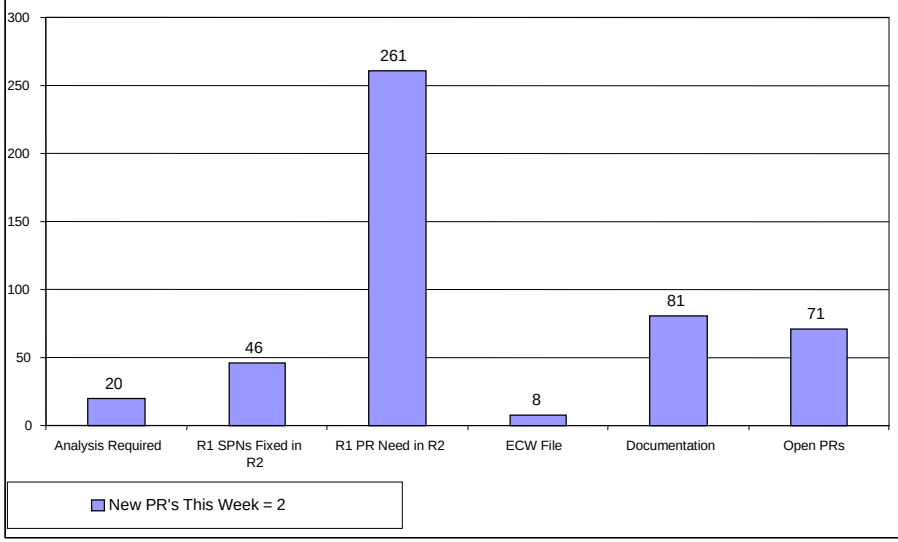
COMMAND & CONTROL SOFTWARE, R2, FLIGHT 8A

CCS R2.2 Remaining Activities





CCS R2 Problem Report (PR) Metrics 02/22/00



CCS R2 Issues / Actions

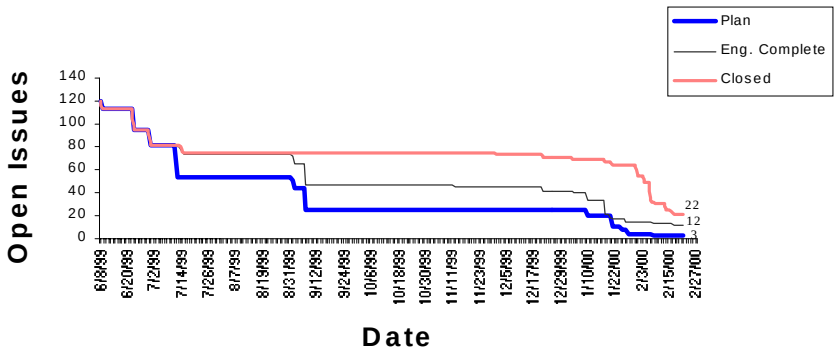
Status as of 2/24/00

- R2.2 Release
  - Engineering build in integration testing
  - Completion of all CSC integration testing by 2/25 at risk
  - RCS 788 Defers Capabilities from R2 to R3
- SIF to move R2.3 from 4/5 to 4/28 submitted
  - R1.5.6 release on 4/6 overlaps with R2.3
  - VPR added to the list of deferred functions (PR16765)
- Removing code associated with deferred capabilities will occur in 2.3
- RCS 788 implemented in R2.3

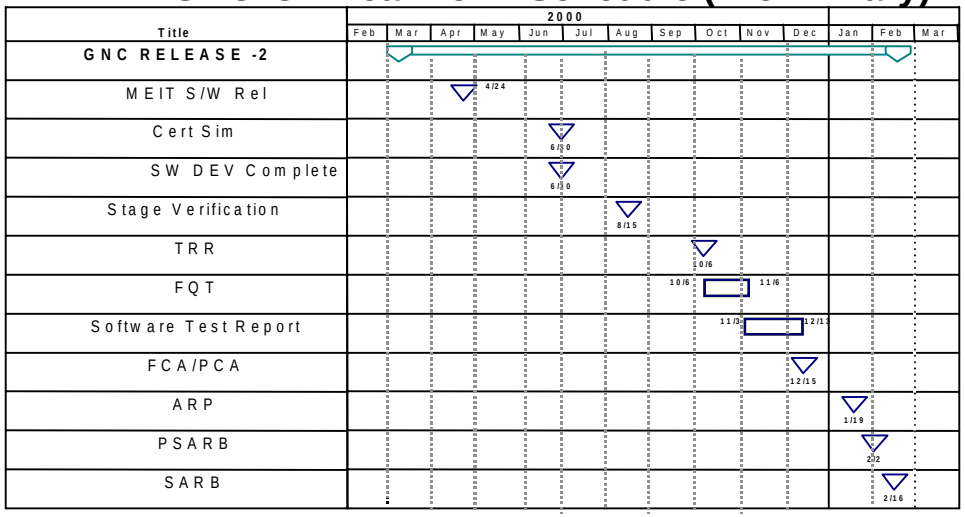
GN&C 8A Flight Software

GNC 8A CDR Issue Status

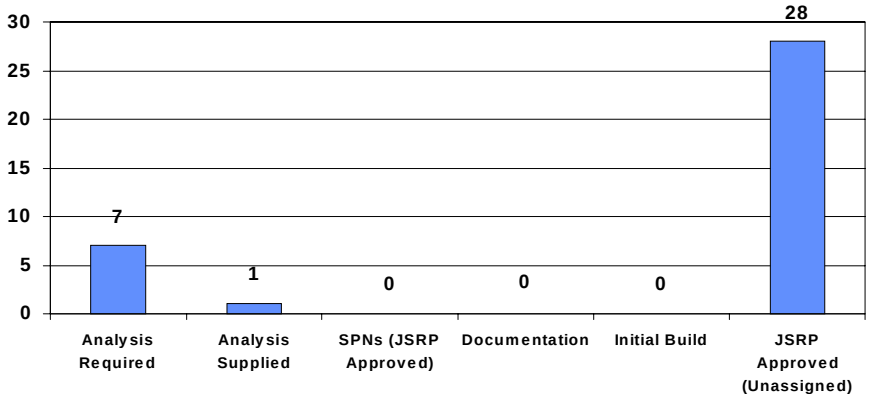
GNC 8A CDR Issue Status



GNC 8A Near Term Schedule (Preliminary)



GNC PCMS PR Metrics



New PRs this week = 1

16981 (HB-PCR 1415) PPL Version IDs need to be added to ICD and FSW

Significant Issues/Actions/Accomplishments

- **Activities/Accomplishments**
  - Continuing Prototype integration with RGA and SIGI.
  - RGA firmware upgrade complete flight units to KSC
- **Concerns**
  - Availability of FEU/MATE resources for SWD & FQT script development.
  - Need BE-107 upgrade for executing GNC 8A software.
- **Actions**
  - Continue real-time integration
  - Complete early integration ORU tests.
  - Staff open positions on FQT and S/W development teams.

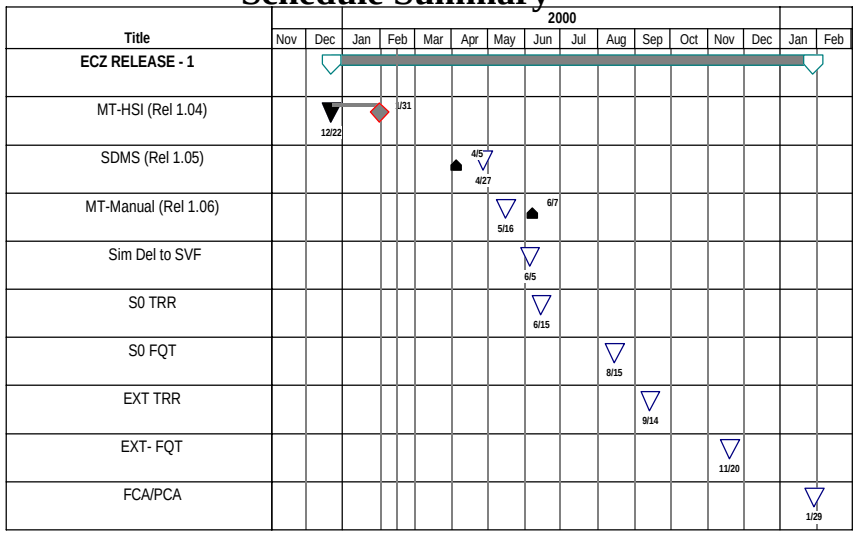
T.P. Russell 2/23/00

ECZ Release One Development Status

R1 Stop Light Chart

Item	This Wk	Prev Wk	Comment
Unit/CSC tests	G	G	-
1.05 (SDMS ATP (4/05)	G	G	-
1_.06 (MT) ATP (5/16)	G	G	-
S0 FQT Script Dev	Y	Y	Staffing up – added 4 Eps last week
S0 TRR (June)	G	G	-

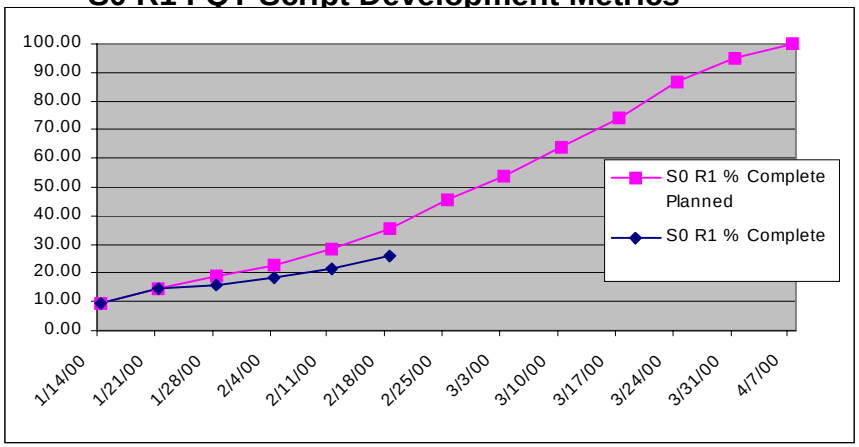
Schedule Summary



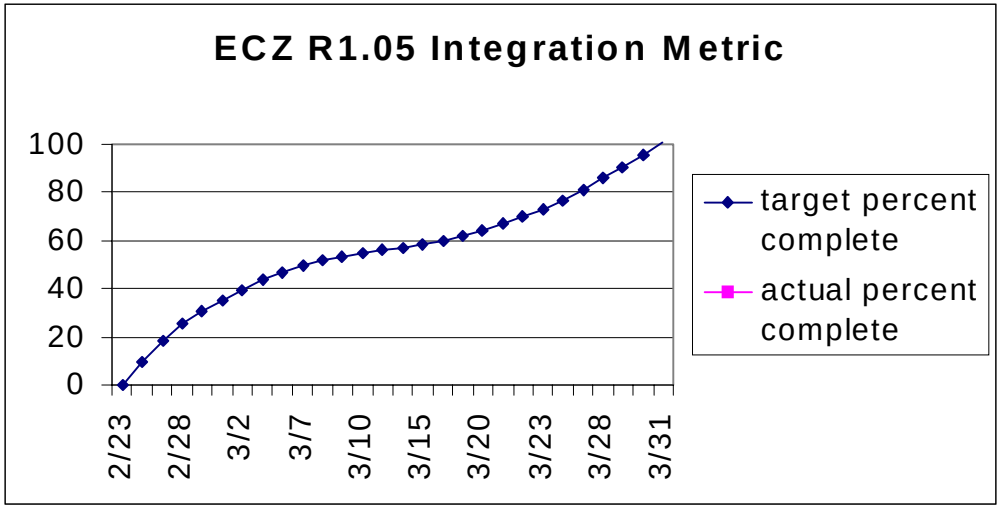
ECZ R1 Accomplishments

- **ATP 1.04 (MT) Runs complete with no FSW issues**
- **R1.05 (SDMS) transfer layer code complete**

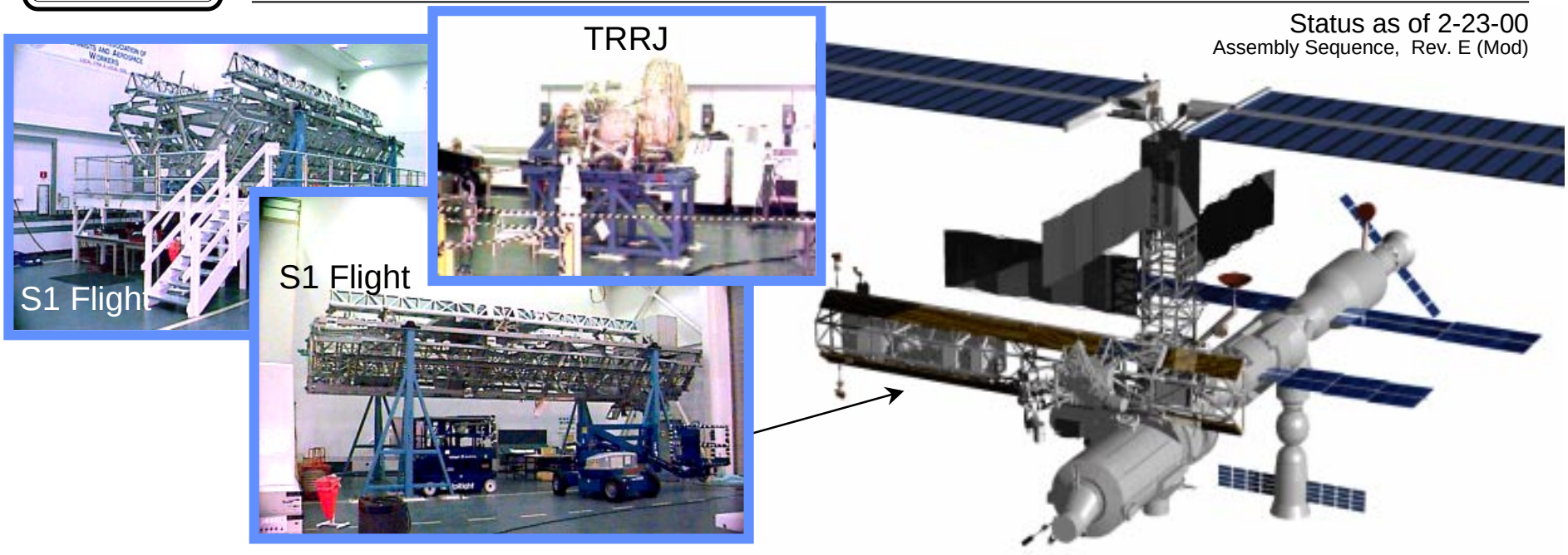
S0 R1 FQT Script Development Metrics



ECZ R1.05 Integration Metric



International Space Station
Flight 9A (STS-110)
S1 (3 Rads), TCS, CETA (1), S-Band



Status as of 2-23-00
Assembly Sequence, Rev. E (Mod)

S1 Flight O/D KSC 10-2(B) 10-6

Radiator Assys O/D KSC ~~2-8~~ 2-17

CETA Cart O/D KSC From NASA 8-14-98 (B) 6-15

Start Sys Functionals ~~4-12~~ 5-17

S1 Flight Acceptance Test Comp 6-4-00 (B) ~~7-24~~ 7-22

Start MEIT II (TC2-4) ~~3-16~~ 2-24

TC2-4 Comp ~~4-24~~ 4-18

Comp ATCS Funct (Part 2) 5-17

Start S1 Configure for 9A Flight ~~8-24~~ 8-26

Ready for Turnover to Shuttle 5-29-01 (B) 6-9 11-05

CoFR 1 6-10-01 (B) ~~9-7~~ 11-15

CoFR 2 7-8-01 (B) ~~10-12~~ 12-13

N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J

1999 2000 2001 2002

3-03 MEIT II 8-26

Note: (B) = Contractual Baseline

127-16-9A-1 / GRFX/ 2/25/00 6:58 AM

Status to Rev E (MOD) Launch and Rev B3 Truss Assembly

INTERNATIONAL SPACE STATION

Flight 9A Health Summary

BOEING

Team	Tech	Sched	Remarks
Flight 9A Overview	G	G	Tech:. No significant issues. Sched: No significant issues. Wire harness Group 1 Installation completeD on January 29, 2000. CKT group 1 testing was conducted from 2/8 through 2/19/2000. Group2 testing to follow starting on 2/29.
S1 STA	G	G	Tech:. No significant issues. Sched: The STA shipped to Huntington Beach and arrived as scheduled on 2/1. The STA has now been moved to Bldg. #30 in preparation for Static Loads Testing activities. Static loads testing is scheduled to start mid April and run through September.
S1 Flight	G	G	Tech: No significant issues. Sched: Currently in work with wire harnesses and CKT testing. Group 1 Testing is in progresss and scheduled to complete on 2/23 followed by Group 2 testing to start on 2/29.
ORU Development	G	Y	Tech: No significant issues. Sched: Based on the revised integrated schedule dated 2/7, ORUs deliveries are currently meeting the planned need dates.
Software	G	Y	Tech: No significant issues. Sched: late software deliveries have been causing acceptance testing delays. Due to the recent update to the integrated schedule assessment date 2/7, software deliveries are within the expected timeframe need dates.
Shuttle Integration	G	G	Tech: No significant issues. Sched: No significant issues.
Analysis & Verification	G	G	Tech: No significant issues. Sched: SIR 6 Kick-Off occurred on January 25, 2000. Subsystem presentations were conducted from 1/26 through 2/11. The OP-01 review at Huntington Beach was completed on 2/18. The issue screening board is scheduled for 3/6. The Pre-Board is scheduled for 3/22 with the actual Board Presentation (If Req) on 3/30.
Safety	G	G	Tech: No significant issues. Sched: No significant issues.
Operations	G	G	Tech: No significant issues. Sched: No significant issues.

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative margin with critical path impact.
Tech: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

February 25, 2000

Improving **Worsening**

Flight 9A (STS-110) Performance to Plan

Weeks of 1/03/00 - 2/26/00

Line Item	Line Item Description	SCB Approval Req'd	Baseline	Current	Need	Actual
	S1 STA (Christi Gau Pagnanelli)					
1	Ship S1 STA to Huntington Beach for Static Loads		12/27/99		2/1/00	2/1/00
2	Move S1 STA from Bldg 46 to Lab		12/29/99			2/8/00
3	Start Strain Guage installation @ HB		2/23/00			2/23/00
4	Pre - TRR Case 1		3/24/00			
5	Strain Guage Installation Complete		3/27/00			
6	Complete Load Lug Installation		3/28/00			
7	Start Static Loads Testing		4/24/00			
8	Static Loads Testing Complete	*	9/15/00			
	S1 Flight ORU's (Christi Gau Pagnanelli)					
9	TV Camera Group #4 S/N 3 O/D KSC (No modified PTU)	*	10/22/99	12/3/99 ~~12/6/99~~ 3/12/99	~~4/25/00~~ ~~3/15/00~~ 5/7/00	
10	4 ea. Motorized Bolt Assy. O/D KSC	*	11/1/99	~~3/1/00~~ ~~4/4/00~~ 4/21/00	~~2/18/00~~ ~~3/15/00~~ 5/16/00	
11	TV Camera Group #4 SN 4 O/D KSC	*	12/17/99	~~5/2/00~~ 5/16/00	7/2/00	
12	Capture Latch Assembly O/D KSC	*	12/17/99		~~2/18/00~~ 3/15/00	2/9/00
13	Radiator Ass'y #2 O/D KSC	*	12/20/99		~~3/15/00~~ 4/25/00	2/17/00
14	UHF ADM O/D KSC		2/22/00	3/2/00	8/15/00	
15	BBC #5 (Bolt Bus Controller)		2/23/00	3/10/00	~~3/15/00~~ 4/10/00	
	S1 Flight (Mark Brave)					
16	Wire Harness Group 1, installation Complete		12/6/99			2/19/00
17	CKT, Group 1, Start (Bays 1, 2, 5, 6, zenith, & nadir utility trays)		12/7/99			2/8/00
18	CKT , Group 1, Complete		12/13/99	~~2/19/00~~ ~~2/23/00~~ 2/25/00		
19	Wire Harness, Group 2, Installation Complete		12/13/99	~~1/31/00~~ ~~2/17/00~~ 2/28/00		
20	Start Polarity Post Installation Test		2/23/00	2/26/00		
21	CKT, Group 2, Start (Radiator Beam Wiring)		12/14/99	~~1/1500~~ ~~2/23/00~~ 2/29/00		
22	CKT. Group 2, Complete		12/20/99	~~1/30/00~~ ~~2/29/00~~ 3/6/00		
	Mission Software (J. Simpfenderfer)					
23	EXT-2 IFL 0.1 (DMS/SEPs) O/D KSC		3/1/00	~~2/19/00~~ 3/3/00	~~3/1/00~~ 3/18/00	
	Analysis & Verification (Steve Grebel)					
24	MBA FCA/PCA		12/14/99	~~1/25/00~~ ~~2/22/00~~ 3/7/00		
25	Complete OP-01 line by line review at HB		2/18/00			2/18/00
	Shuttle Integ/Mission Ops (Steve Grebel)					

#	AoEs due to be discussed today:	Owner

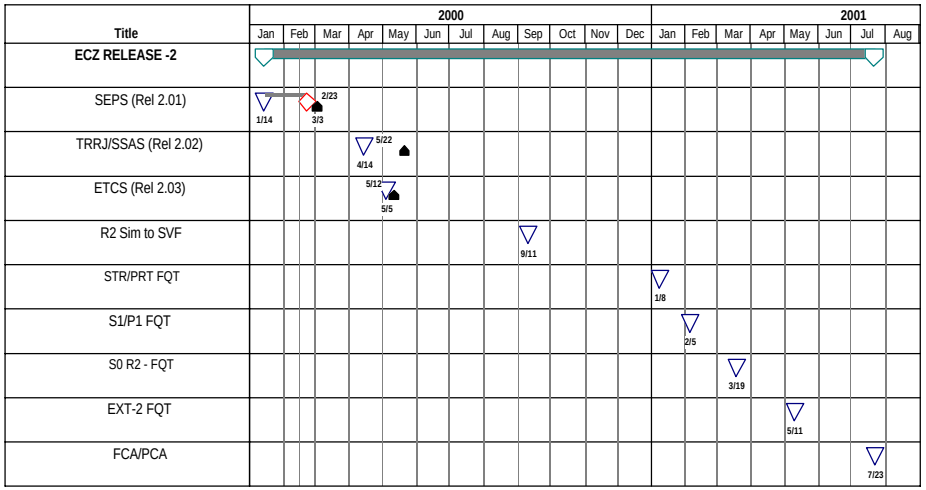
*** = Changes Require Schedule Change Board Approval**

ECZ Release Two Development Status

R2 Stop Light Chart

Item	This Wk	Prev Wk	Comment
R2 SRSs Baselined	G	G	
Code Implementation	Y	Y	Need to verify Reqts trace on baseline SRS
R2_.01(SEPS) ATP (2-28)	Y	R	
TTA	R	Y	Schedule at risk

Preliminary Schedule Summary

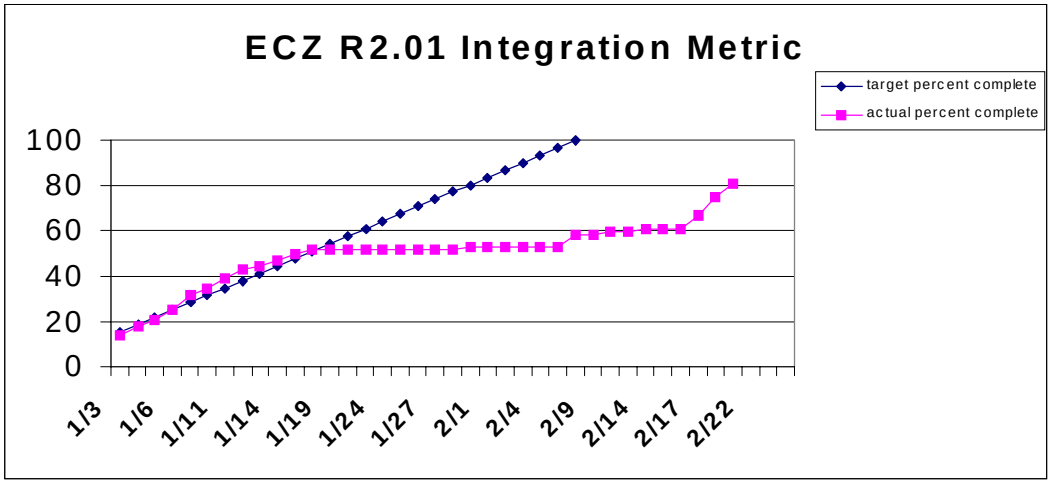


ECZ R2 Accomplishments

- **Dry runs of R2_.01 ATP in progress**
- **Preparation of R2_.01 (SEPS) REPS material ongoing**

ECZ R2 Risks

- **Can't fail review must complete by 3/1 to support 2.01 use**
- **Need 10 card FEUs in HB by Feb. 21 to support Thermal Test Article schedule**



International Space Station
Flight 11A (STS-113)
P1 (3 Rads), TCS, CETA (1), UHF

Status as of 2-23-00
Assembly Sequence, Rev. E (Mod)

P1 Truss
(Boeing - Huntington Beach)

P1 Secondary Structure and Outfitting Comp 1-24

TRRJ #1 avail to P1 11-10

UHF ADM O/D KSC ~~2-22~~ 3-2

P1 on Dock KSC 5-25

CETA Cart O/D KSC from NASA 11-13-98 (B) 6-15

Start SPDA Tests 7-25

Comp Primary EPS 9-13

Comp P1 Regression ~~10-28~~ 10-30

P1 Acceptance Test Comp 7-29-00 (B) ~~12-9~~ 12-12

Start MEIT II (TC2-4) ~~3-19~~ 2-24

TC2-4 Comp ~~4-24~~ 4-18

Start P1 Configure for 11A Flight ~~8-25~~ 8-27

Start P1 Regression ~~7-23~~ 7-25

Ready for Turnover to Shuttle 7-8-01(B) ~~8-17~~ 10-25

CoFR 1 7-05-01 (B) ~~11-23~~ 12-4

CoFR 2 8-2-01 (B) ~~12-28~~ 12-18

A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1999					2000												2001											

Note: (B) = Contractual Baseline

5-25 DWELL 7-24

3-06 MEIT II 8-26

127-16-11A-1 / GRFX/ 2/25/00 6:58 AM

Status to Rev E(MOD) Launch and Rev B3 Truss Assembly

Flight 11A Health Summary

Team	Tech	Sched	Remarks
Flight 11A Overview	G	G	Tech:. No significant issues. Sched: the drilling of holes and installation of brakets continues. Approx. 8500 or 9700 holes have been completed. Installation of wire harnesses and fluids lines is in progress in progress. Shipment of the P1 to KSC is currently scheduled for 5/26.
P1 Flight	G	G	Tech: No significant issues. Sched: the drilling of holes and braket installation continues. Approximately 8500 holes have been completed. Shipment of the P1 to KSC is scheduled for 5/26/00.
ORU Development	G	Y	Tech: No significant issues. Sched: Based on the revised integrated schedule dated 2/7, ORUs deliveries are currently meeting the planned need dates.
Software	G	Y	Tech: No significant issues. Sched: late software deliveries have been causing acceptance testing delays. Due to the recent update to the integrated schedule assessment date 2/7, software deliveries are meeting current need dates.
Shuttle Integration	G	G	Tech: No significant issues. Sched: No significant issues.
Analysis & Verification	G	G	Tech: No significant issues. Sched: SIR 6 Kick-Off occurred on January 25, 2000. Subsystem presentations were conducted from 1/26 through 2/11. The OP-01 review at Huntington Beach was completed on 2/18. The issue screening board is scheduled for 3/6. The Pre-Board is scheduled for 3/22 with the actual Board Presentation (If Req) on 3/30.
Safety	G	G	Tech: No significant issues. Sched: No significant issues.
Operations	G	G	Tech: No significant issues. Sched: No significant issues.

G Schedule: Zero or positive margin
Tech: Meets technical requirements; No significant issues

Y Schedule: Negative margin with approved recovery plan with no impact to critical path
Tech: Does not meet requirements but has recovery plan. Open issues have recovery plans.

R Schedule: Negative margin without recovery plan or negative margin with critical path impact.
Tech: Does not meet requirements and does not have recovery plan. Open issues do not have recovery plans.

February 25, 2000

Improving **Worsening**

Flight 11A (STS-112) Performance to Plan

Weeks of 1/4/00 - 1/31/00

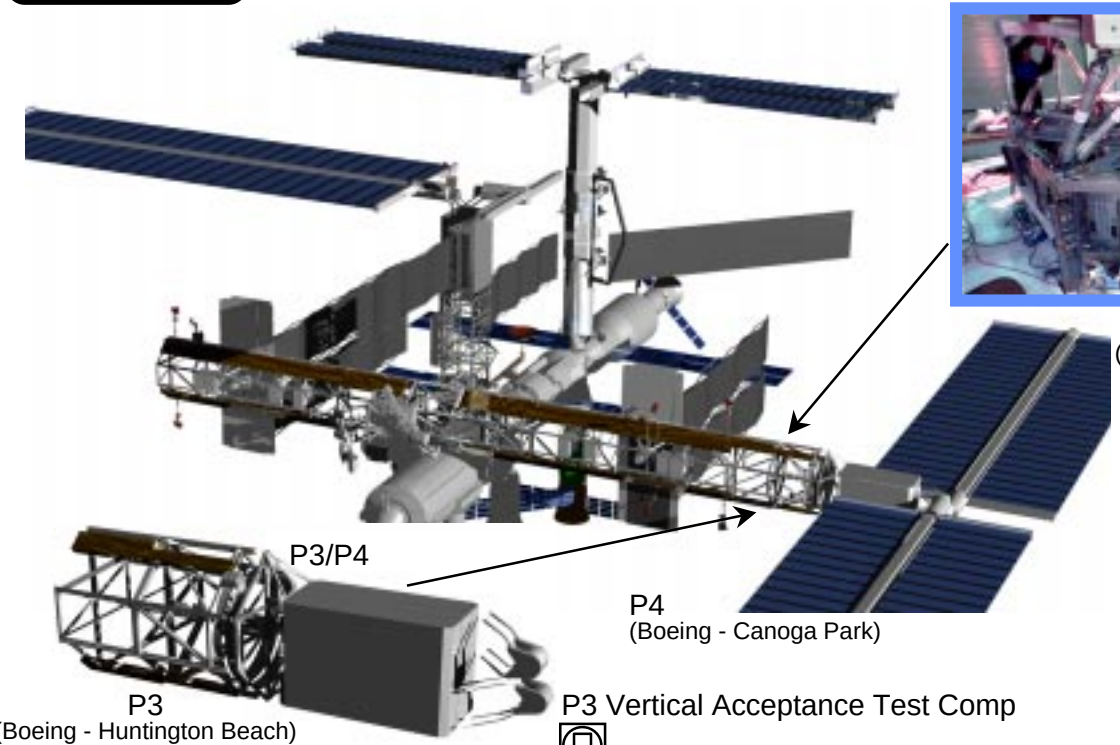
Line Item	Line Item Description	SCB Approval Req'd	Baseline	Current	Need	Actual
	P1 Flight ORU's (Christi Gau Pagnanelli)					
1	Thermostat Box #2 O/D KSC	*	11/25/99		8/15/00	1/20/00
2	Thermostat Box #1 O/D KSC	*	12/6/99		8/15/00	1/31/00
3	Capture Latch Assembly O/D KSC	*	12/17/99	3/15/00	8/15/00	
4	UHF ADM O/D KSC	*	1/12/00	3/2/00	8/15/00	
	P1 Flight (Dwight Potter)					
4	Move P1 to High CUB (HSV)		12/10/99			1/20/00
5	Complete TRRJ # 2 Assembly		12/10/99			1/24/00
6	Install TRRJ # 2		12/14/99			1/25/00
7	Move P1 to Cleanroom (CUB Express)		12/18/99			1/26/00
8	Start Fluid Line Install		12/20/99			2/1/00
9	Start Electrical Installations		12/20/99			2/1/00
10	P1 Truss Element O/D KSC	*	1/13/00	~~3/10/00~~ ~~3/22/00~~ 5/25/00	~~3/10/00~~ 7/23/00	
	Mission Software (J. Simpfenderfer)					
	Analysis & Verification (Steve Grebel)					
11	SIR 6 Kickoff		1/25/00			1/25/00
	Shuttle Integ/Mission Ops (Steve Grebel)					

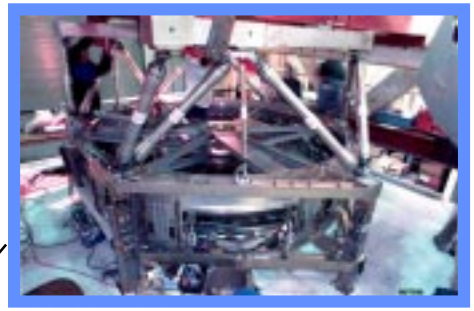
#	AoEs due to be discussed today:	Owner

*** = Changes Require Schedule Change Board Approval**

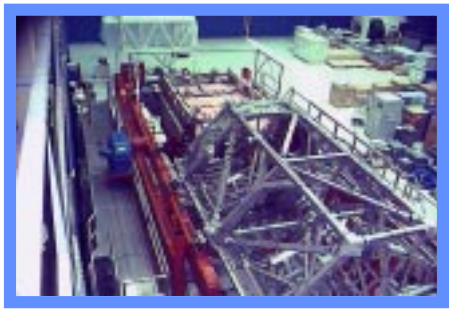
International Space Station
Flight 12A (STS-114)
P3/P4, PV Array, 2 ULCAS

Status as of 2-24-00
Assembly Sequence, Rev. C





SARJ STA
(Boeing - Huntington Beach)



P3 - P4 in VEF 4-14-99

P3 to Huntsville 4-1-99

P3 Vertical Acceptance Test Comp
8-11 ~~8-21~~

P4 IEA Outfitting Comp
~~2-15~~ 6-30

P4 IEA C&R
7-31

P3/P4 Integ Test Comp
(3-15 B) ~~10-25~~ 10-13

P3 P4 CFF Comp
~~5-16~~ 10-19

P3 Horizontal Accept
P4 O/D Test
KSC Comp
~~12-22~~ 6-5
(10-6 B) 6-30

P3/P4 Integ Comp
9-8 ~~8-31~~

P3 O/D KSC
(6-15 B) 11-17

P3/P4 T/O MEIT II
3-8 ~~3-21~~

P3/P4 Rls'd from MEIT 2
~~8-24~~ 8-26

P3/P4 Final Assy & C/O
~~9-13~~ 2-25

P3/P4 Ready for Shuttle Integration
~~*3-15*~~ ***3-19***

S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
1999				2000												2001												2								

1-3 Dwell 4-14

10-24 MEIT II 4-18
TC4

7-25 MEIT 8-26
Regression

Note: (B) = Contractual Baseline

127-16-12A-1 / GRFX/ 2/25/00 9:39 AM

Status to Rev E Launch and Rev B3 Truss Assembly

Flight 12A (STS-116) Performance to Plan

Week of 2/20/00 - 2/26/00

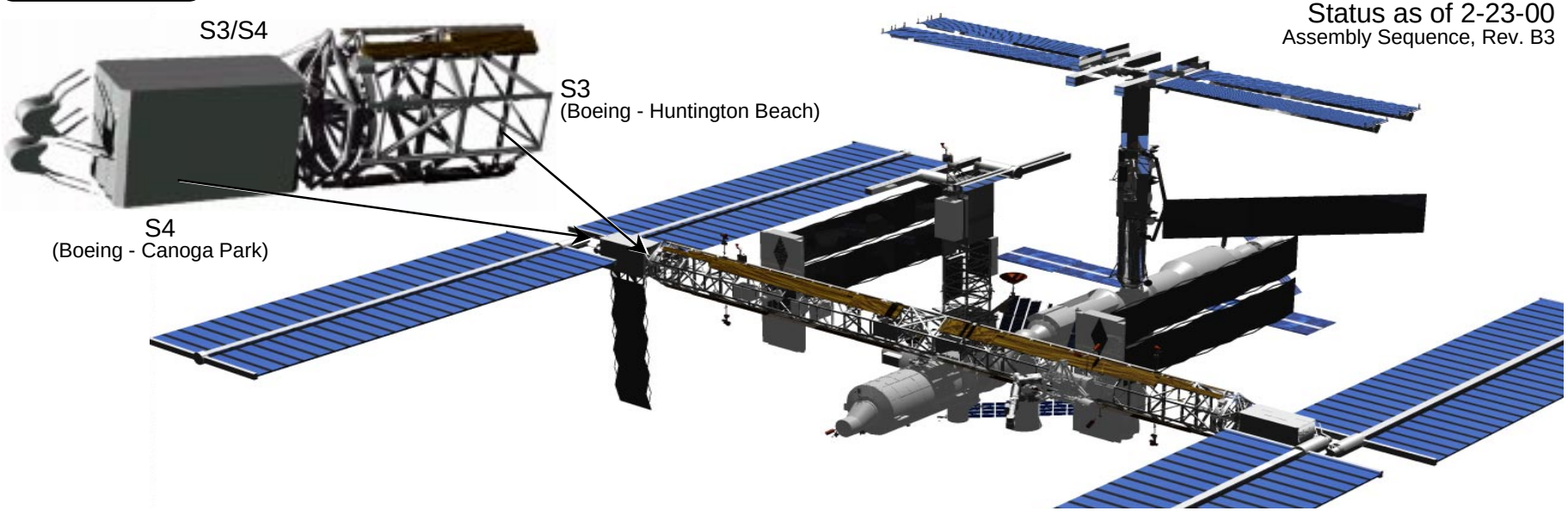
Line		IMP	Baseline	Current	Need	Actual
	P3 STA (Kate Rupley)					
1	Static Loads Test TIM		3/3/00			
2	Static Loads TRR		2/14/00	3/16/00		
3	Start Static Loads Test Cases 1-3		2/16/00	3/17/00		
	P3 Flight (Dave Cormack)					
4	Utility Rail Support Structure Instl complete		2/27/00		3/31/00	
5	Utility Rails (2ea) EVA ORU Instl/Rmvl Comp		2/15/00	2/28/00	3/31/00	
6	Start P3 1553 Verification Test (Post Instl)		2/14/00		4/17/00	2/22/00
7	Complete P3 1553 Verification Test		3/15/00			
8	P1 / P3 Cable & Fluid line connector fitchecks complete (start 1/28 (A))		2/11/00	2/29/00	2/29/00	
9	RPCM (8) ORU EVA Instl/Rmvl Complete		2/4/00	3/6/00	3/31/00	
	P3 Flight ORUs (Lisa Adams)					
10	Capture Latch Assy (2 ea) O/D KSC		11/30/99	~~2/24~~ 3/15/00	6/1/00	
11	UMA-MT Passive (2 ea) Red-Tag units O/D KSC		4/15/00		4/15/00	
	P4 IEA/ORUs (Kate Rupley)					
12	P3 PVCU MDM (2ea) O/D KSC		2/25/00		6/1/00	
13	P4 PVCU MDM (2ea) O/D KSC		2/25/00		6/1/00	
14	PV Radiator O/D KSC		12/23/99	~~2/15~~ 2/23/00	6/1/00	
15	BCDU FM-12 O/D KSC (on Hold)		1/23/00	U/R	6/1/00	
16	PFCS O/D KSC		2/22/00	3/7/00		
	Software (Joe Sherril)					
	Analysis & Verification (Steve Hammitt)					
17	P4/S6/S4 IFCA #0 start		2/18/00			2/18/00
18	P3 ICA #1 start		2/28/00			
	Shuttle Integ/Mission Ops (Steve Hammitt)					

12A AOE'S TODAY

None --

International Space Station
Flight 13A (STS-117)
S3/S4, PV Array, 4 PAS

Status as of 2-23-00
Assembly Sequence, Rev. B3



Start S3 Struct Assy 6-18

S3 Flt Primary Struct Comp Job 1 ~~9-24~~ 11-24

S3 Flt SARJ #2 O/D Tulsa 5-3-99 (B) 1-10

S3 Flt SARJ2 Inst Comp ~~2-18~~ 2-9 (A)

S3 Outfitting Comp 5-10

S3 on Dock KSC (5-19 B)

S4 on Dock KSC (8-1 B)

S4 Outfitting Comp (9-2 B)

C&R S4 Testing Comp (10-2 B)

S3 Vertical Acceptance Test Comp (11-30 B) 12-15

S3 Horizontal Test Comp (10-26 B) 11-5

S3 /S4 Int. Comp. (1-8 B) 1-23

S3/S4 Integ Test Comp (1-31 B) 2-15

Final Assembly and Checkout/CFF (4-20 B)

Boeing Ready for turnover to Shuttle (5-11 B)

J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
1999							2000													2001												2002				

5-23 Dwell 7-30

Note: (B) = Contractual Baseline

127-16-13A-1 / GRFX/ 2/25/00 9:39 AM

Status to Rev E Launch and Rev B3 Truss Assembly

Flight 13A (STS-119) Performance to Plan

Week of 2/20/00 - 2/26/00

Line		IMP	Baseline	Current	Need	Actual
	S3/S4 Flight (Ken Henn)					
1	Install SARJ#2 Flight Structure Complete		2/18/00			2/18/00
2	S3 Electrical Cables O/D Tulsa		2/28/00		3/1/00	
3	S3 Job Primary Structure Complete		3/17/00			
4	Complete S3 Cable Installation (Started 2/14/00)		6/30/00			
	S3 Flight ORU's (Lisa Adams)					
5	PAS Platform Parts		3/10/00	6/2/00	6/2/00	
6	Capture Latch Assy (Qty 4)		3/23/00		9/15/00	
7	PAS RTL's		3/24/00		9/15/00	
	S4 IEA/ORU's (Kate Rupley)					
8	RPCM O/D KSC		3/31/00		8/1/00	
9	ECU FM-05 O/D KSC		4/12/00		10/3/00	
	Software (Joe Sherril)					
	Analysis & Verification (Steve Hammitt)					
18	P4/S6/S4 IFCA #0 Complete		2/18/00			2/18/00
	Shuttle Integ/Mission Ops (Steve Hammitt)					

13A AOE'S TODAY

None --