

## FLIGHT DATA FILE

# Flight Plan

## STS-67

(FRR Trajectory)

**Mission Operations Directorate  
Operations Division**

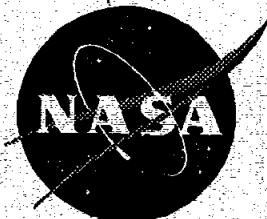
**Final  
February 10, 1995**

**NOTE**  
First day activities based on a  
March 2 launch and subsequent  
days planned to a January 12  
launch (see page viii for details)

<u>EVENT</u>	<u>CST</u>		
Launch	00:37	Thur	Mar 2
IPS Deploy	05:37	Thur	Mar 2
IPS Stow	22:07	Thur	Mar 16
KSC Landing	14:09	Thur	Mar 17

National Aeronautics and  
Space Administration

Lyndon B. Johnson Space Center  
Houston, Texas




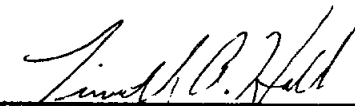
MISSION OPERATIONS DIRECTORATE

STS-67 FLIGHT PLAN

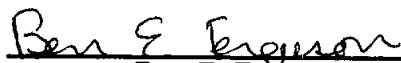
FINAL  
February 10, 1995


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Lead Timeliner	DO4/T. Hall	244-1139
Lead Pointer	DO4/J. McKune	244-5368

FLIGHT PLAN  
STS-67

**LIST OF EFFECTIVE PAGES**

	FINAL	02/10/95
Sign Off .....	* 67/FIN	3-4 ..... 67/FIN
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1-3 .....	67/FIN	3-14 ..... 67/FIN
1-4 .....	67/FIN	3-15 ..... Δ reserved
1-5 .....	67/FIN	3-16 ..... Δ reserved
1-6 .....	67/FIN	3-17 ..... Δ reserved
2-1 .....	67/FIN	3-18 ..... Δ reserved
2-2 .....	67/FIN	3-19 ..... Δ reserved
2-3 .....	67/FIN	3-20 ..... Δ reserved
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2-10 .....	67/FIN	3-27 ..... Δ reserved
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2-33 .....	67/FIN	3-50 ..... Δ reserved
2-34 .....	67/FIN	3-51 ..... Δ reserved
3-1 .....	67/FIN	3-52 ..... Δ reserved
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3-3 .....	67/FIN	3-54 ..... Δ reserved
		3-55 ..... Δ reserved

Δ - Page numbers are reserved for in-flight uplinks only  
\* - Omit from flight book

3-56	.....	Δ reserved	4-8	.....	Δ reserved
3-57	.....	Δ reserved	4-9	.....	Δ reserved
3-58	.....	Δ reserved	4-10	.....	Δ reserved
3-59	.....	Δ reserved	4-11	.....	Δ reserved
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3-84	.....	Δ reserved	4-36	.....	Δ reserved
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4-5	.....	Δ reserved			
4-6	.....	Δ reserved			
4-7	.....	Δ reserved			

Δ - Page numbers are reserved for in-flight uplinks only  
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STS-67 FLIGHT PLAN FABRICATED ITEMS

<u>Title</u>	<u>Ref. Page</u>	<u>Item No.</u>
DAP A, DAP B TOC .....	6-5	FLT PLN-1a/67/O/B
(Blank) .....	6-5	FLT PLN-1b/67/O/A
DAP A .....	6-6	FLT PLN-2a/67/O/A
DAP A1 .....	6-6	FLT PLN-2b/67/O/A
A1 .....	6-6	FLT PLN-3a/67/O/A
DAP A2 .....	6-6	FLT PLN-3b/67/O/A
A2 .....	6-7	FLT PLN-4a/67/O/A
DAP A3 .....	6-7	FLT PLN-4b/67/O/A
A3 .....	6-7	FLT PLN-5a/67/O/A
DAP A4 .....	6-7	FLT PLN-5b/67/O/A
A4 .....	6-8	FLT PLN-6a/67/O/A
DAP A5 .....	6-8	FLT PLN-6b/67/O/A
A5 .....	6-8	FLT PLN-7a/67/O/A
DAP A6 .....	6-8	FLT PLN-7b/67/O/A
A6 .....	6-9	FLT PLN-8a/67/O/A
DAP A7 .....	6-9	FLT PLN-8b/67/O/A
A7 .....	6-9	FLT PLN-9a/67/O/A
DAP A8 .....	6-9	FLT PLN-9b/67/O/A
A8 .....	6-10	FLT PLN-10a/67/O/A
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B1 .....	6-11	FLT PLN-13a/67/O/A
DAP B2 .....	6-11	FLT PLN-13b/67/O/A
B2 .....	6-12	FLT PLN-14a/67/O/A
DAP B3 .....	6-12	FLT PLN-14b/67/O/A
B3 .....	6-12	FLT PLN-15a/67/O/A
DAP B4 .....	6-12	FLT PLN-15b/67/O/A
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B6 .....	6-14	FLT PLN-18a/67/O/A
DAP B7 .....	6-14	FLT PLN-18b/67/O/A
B7 .....	6-14	FLT PLN-19a/67/O/A
DAP B8 .....	6-14	FLT PLN-19b/67/O/A
B8 .....	6-15	FLT PLN-20a/67/O/A
DAP B11 .....	6-15	FLT PLN-20b/67/O/B
B11 .....	6-15	FLT PLN-21a/67/O/B
(Blank) .....	6-15	FLT PLN-21b/67/O/A
UNIV PTG .....	6-16	FLT PLN-22/67/O/A

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## INTRODUCTION

The STS-67 Flight Plan is the Flight Data File article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Deorbit Prep, and Entry Checklists. For continuity, the summary level timeline includes the entire flight.

This on-orbit timeline satisfies the objectives specified in the Flight Definition and Requirements Directive and the requirements of the STS-67 Flight Requirements Document. The Flight Plan, as part of the Flight Data File, meets the specifications of the Flight Cycle version of the STS-67 Flight Initialization Data Pack.

JSC-22359, Crew Scheduling Constraints (Appendix K, CPMP), Basic, Rev B, January 1992, has been used to build the timelines contained in this Flight Plan. The following Appendix K exemptions have been approved for STS-67:

- #59 - Allows the blue team to wake up before 14 hours of landing time, to provide the red team with 7 hours of sleep prior to entry.

The timeline formats used in this Flight Plan are based on JSC-19933, Timeline Format Definitions and Standard Notes, Rev C, May 1990.

### Description of Final Flight Plan

Since the Astro mission is highly sensitive to launch changes, a full scale Final Flight Plan was not pursued. The Basic Flight Plan is a 14-day mission based on the Flight Cycle trajectory (January 12, 1995, 06:46 GMT launch). The Final Flight Plan is a 16-day mission based on the Flight Cycle trajectory, with the first 24 hours updated to the FRR trajectory (March 2, 1995, 06:37 GMT launch). Some key notes about the Final Flight Plan are:

- a. The FRR trajectory is displayed on all timelines.
- b. The overview and summary timelines contain the 16-day plan.
- c. The detail timeline contains only the first 2 days. Subsequent days (14 + 2 days) are blank in the onboard Flight Plan. The PCAP also contains only the first day.
- d. The attitude timeline contains only the first day. Subsequent days (15 + 2 days) are blank in the onboard Flight Plan.

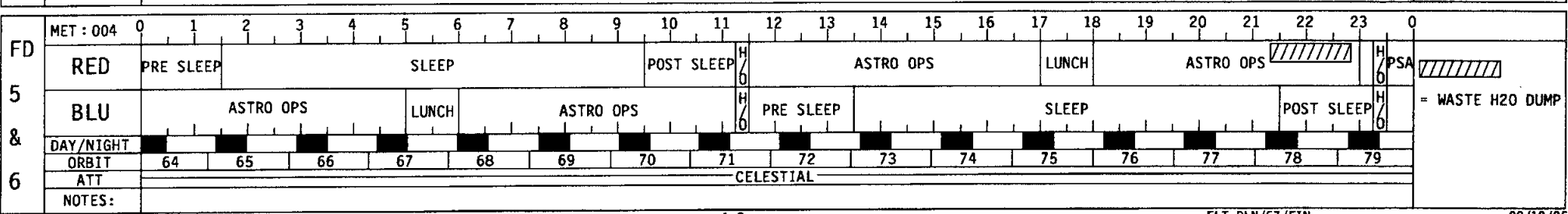
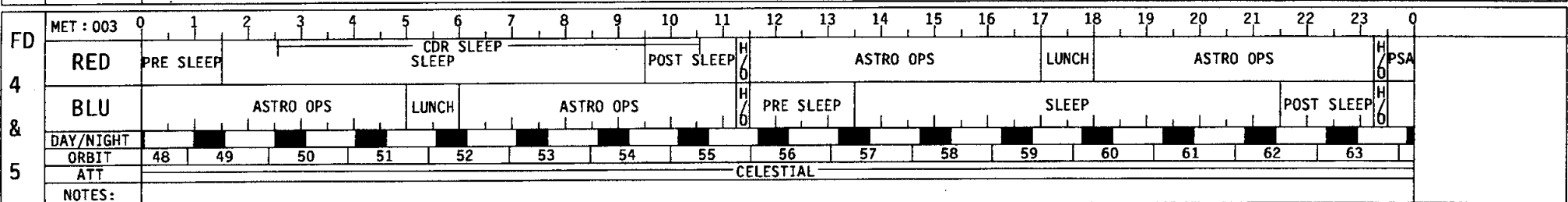
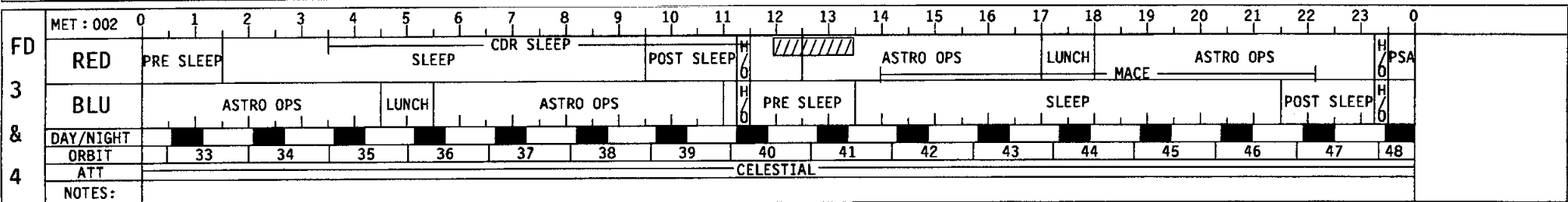
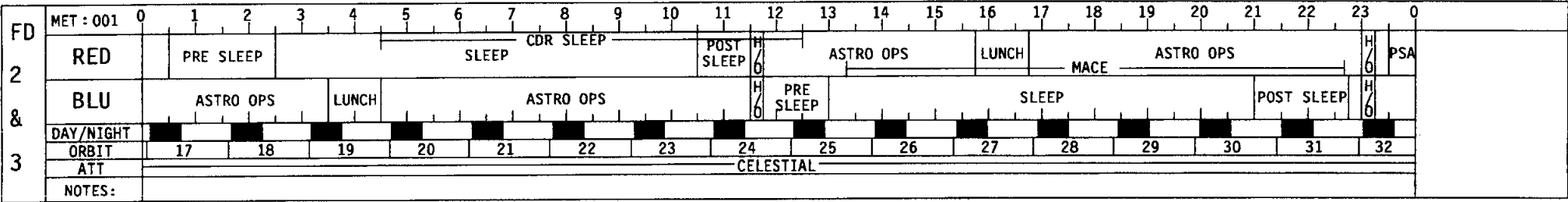
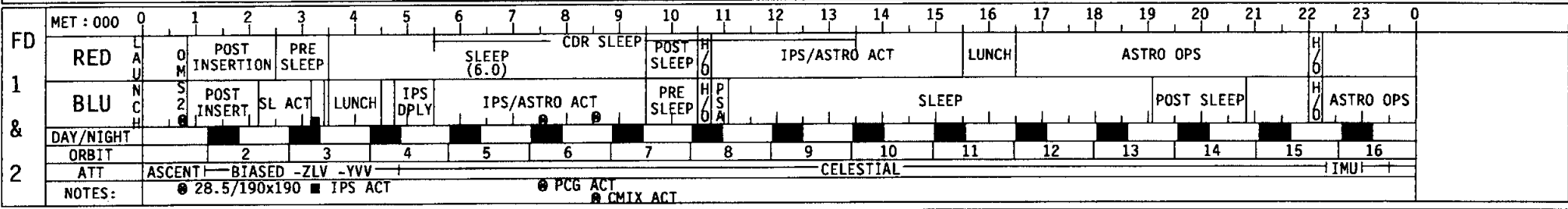
New detail timeline and attitude timeline pages will be uplinked every flight day.

For pre-flight analysis (e.g., prop consumables, thermal, power), the Basic Flight Plan can be used to supplement the Final. In that case, pages 3-15 thru 3-82 and 4-3 thru 4-30 should be retained from the Basic.

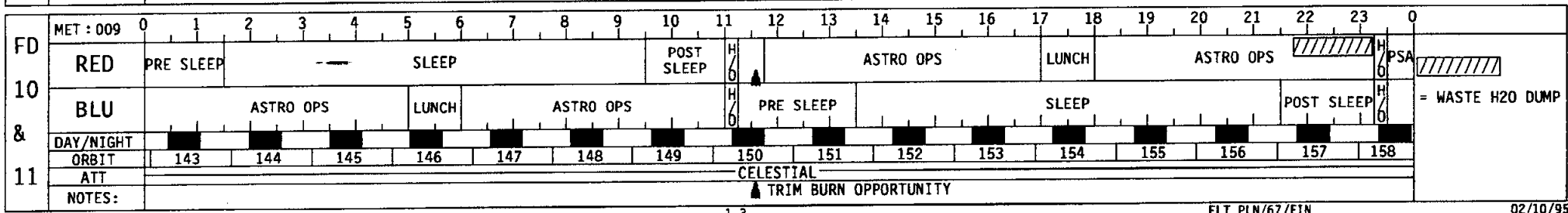
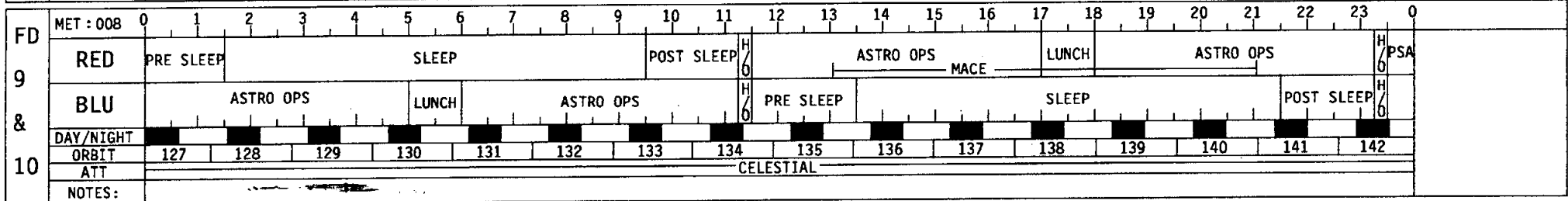
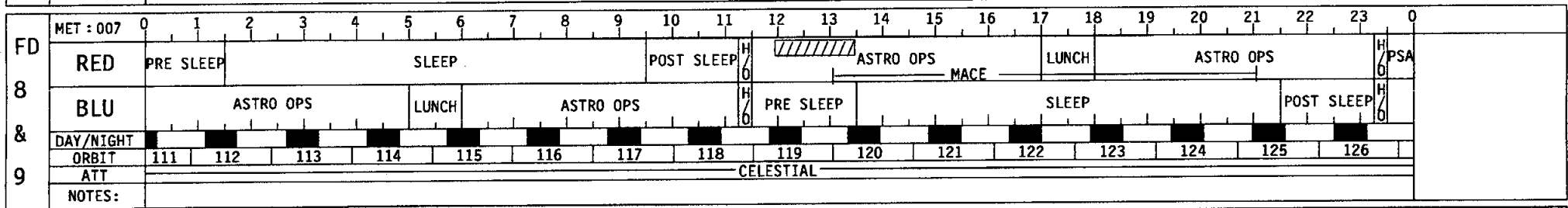
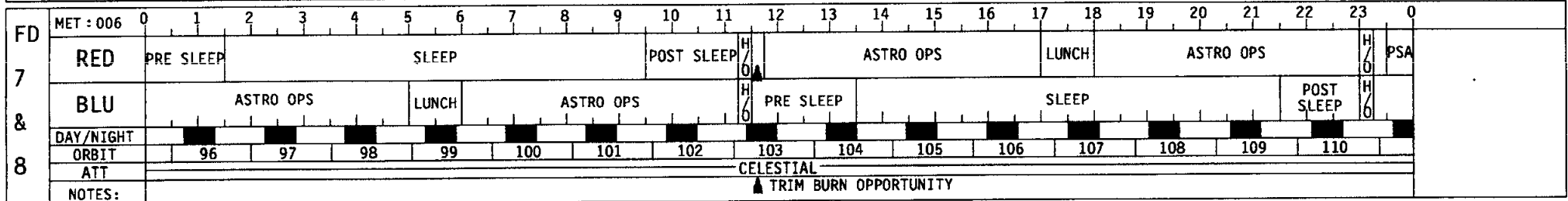
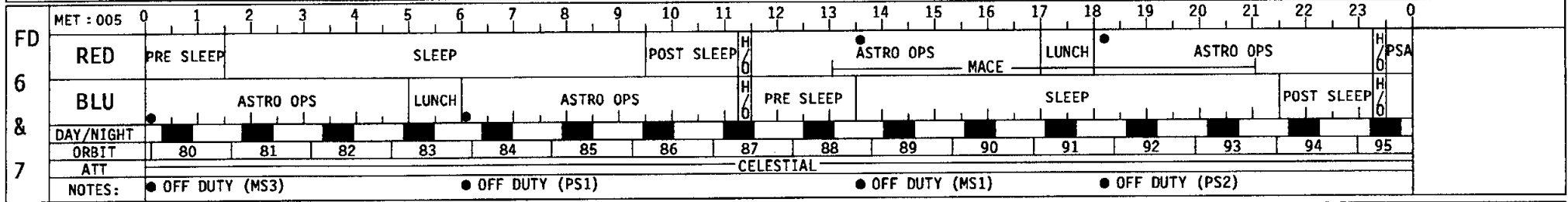
**STS-67 OVERVIEW**

# OVERVIEW

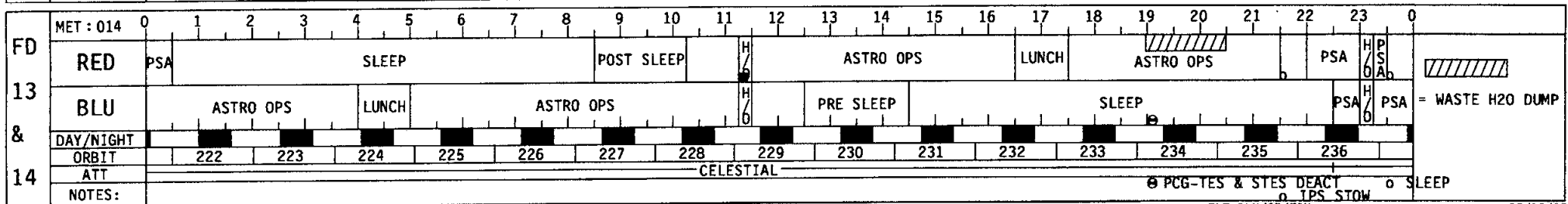
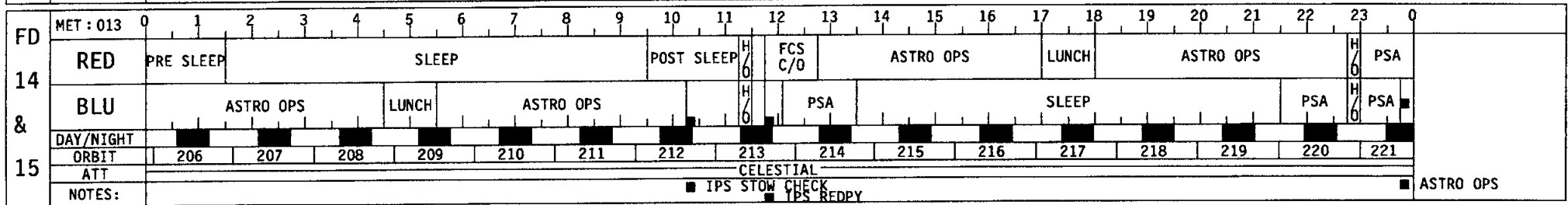
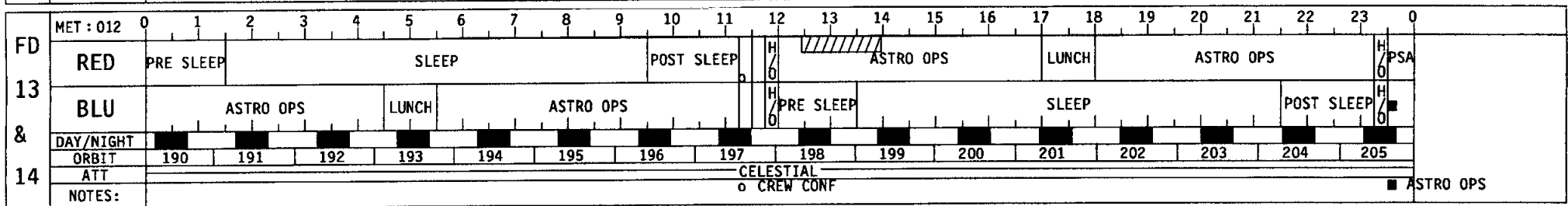
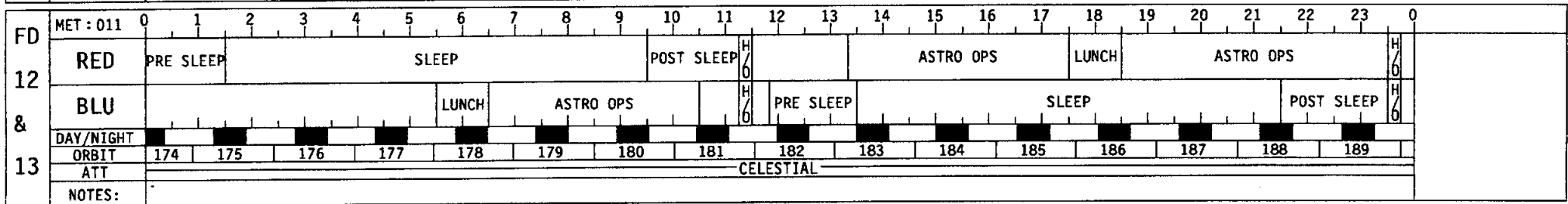
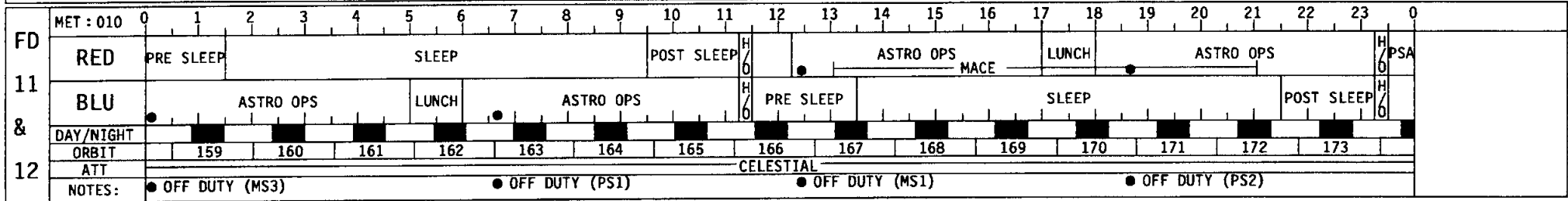
FLIGHT: STS-67      EDITION: FINAL      PUB. DATE: 02/10/95



FLIGHT: STS-67      EDITION: FINAL      PUB. DATE: 02/10/95



FLIGHT: STS-67      EDITION: FINAL      PUB. DATE: 02/10/95



FLIGHT: STS-67      EDITION: FINAL      PUB. DATE: 02/10/95

MET : 015		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0		
FD	RED	SLEEP (7.0)					POST SLEEP	DEORBIT PREP					D	B	K	L												
16	BLU	CABIN STOW			SL DEACT	CABIN STOW	LUNCH	DEORBIT PREP					0	U	S	N												
&	DAY/NIGHT	[Bar chart showing day/night cycle]																										
17	ORBIT	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252											
	ATT	-ZLV +YVV										+XSI					COMM					D/O						
	NOTES:	■ IPS-DACT					■ OSO 603C					○ HOT FIRE					● TIG:15/12:25											

MET : 016		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0		
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	DAY/NIGHT	[Bar chart showing day/night cycle]																										
	ORBIT																											
	ATT																											
	NOTES:																											

MET : 017		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0		
	RED																											
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	DAY/NIGHT	[Bar chart showing day/night cycle]																										
	ORBIT																											
	ATT																											
	NOTES:																											

MET : 018		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0		
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	ORBIT																											
	ATT																											
	NOTES:																											

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	ORBIT																											
	ATT																											
	NOTES:																											

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**SUMMARY TIMELINE**



# SUMMARY TIMELINE

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE				
061:06:37 / 061:18:37		000:00:00 / 000:12:00		061:00:37 / 061:12:37		/061 CST	19.9	●	MARCH 2, 1995	STS-67	FINAL	02/10/95				
CST	:061	0	1	2	3	4	5	6	7	8	9	10	11	12		
MET	:000	0	1	2	3	4	5	6	7	8	9	10	11	12		
RED FD 1 & 2	CDR <i>OSWALD</i>		POST INSERT	POST INSERT	PRE SLEEP		PRE SLEEP					SLEEP				
	PLT <i>GREGORY</i>		POST INSERTION		PRE SLEEP				SLEEP (6.0)			POST SLEEP	H/O	POST SLEEP		
	MS1 <i>GRUNSFELD</i>		POST INSERT	POST INSERTION	PRE SLEEP				SLEEP (6.0)			POST SLEEP	H/O	POST SLEEP		
	PS2 <i>PARISE</i>	LAUNCH	OMS-2	POST INSERTION	PRE SLEEP				SLEEP (6.0)			POST SLEEP	H/O	POST SLEEP		
BLUE FD 1	MS2 <i>LAWRENCE</i>		POST INSERTION	SPACELAB ACT	LUNCH	IPS ACT1	IPS ACT2	IPS DPL1	IPS OSPC	IPS IPT	IPS IDPT	IPS LOTS	WUP SAA3	H/O	PRE SLEEP	SLEEP
	MS3 <i>JERNIGAN</i>		POST INSERTION	SPACELAB ACT	LUNCH	IPS ACT1	IPS ACT2	IPS DPL1	IPS OSPC	IPS IPT	IPS IDPT	IPS LOTS	WUP SAA3	H/O	PRE SLEEP	SLEEP
	PS1 <i>DURRANCE</i>		POST INSERTION	LUNCH	HUT ACT	UIT ACT	WUP SAA2	HUT ACT	WUP ACTV	WUP ACTV	HUT ACT	PRE SLEEP	H/O	PRE SLEEP	SLEEP	
DAY/NIGHT																
ORBIT																
SAA																
TDRS																
ATT																
NOTES:	o PCS CONFIG      ∇ APU HTR RECONFIG ■ LAMP TEST      ◆ IMC ACT      ∇ APU HTR DEACT ⊙ SLEEP START FOR LAUNCH DELAY > 2 HRS, WAKEUP WILL REMAIN UNCHANGED												DSO 326			

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE							
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CST	:061	13	14	15	16	17	18	19	20	21	22	23	0	CST:062					
MET	:000	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:001				
RED FD 2	CDR OSWALD	SLEEP		POST SLEEP		SAREX RPO DARCS LUN SETUP DSO 604	DSO 604 DATA COL		LUNCH		AC FTLR	FILTER CLEANING		DSO 604	K I S / A G G I C	X F E R	S A R E X B	ERGOM SETUP	
	PLT GREGORY	P/TV08 SETUP	P/TV08 BOOK	CMIX 8		LUNCH		P C G K	M N V R	P/TV05 SETUP ASTRO	P/TV05	F I L E T E R I N G		M N V R	M N V R		M N V R	H/O	ERGOM SETUP
	MS1 GRUNSFELD	IMC CAL	IMC GYRO	J3 F&A		LUNCH		B S I E S A T U S P I E	I P S M T A T	GR P A G A S	I D O P	DSO 604 DATA COL		J5 OBS		H/O			
	PS2 PARISE	D O S 4 8 8 Y	HUT R50	HUT S A A D	J3 F&A		EXP BIAS	LUNCH		HUT CAM	HUT SPEC FOCUS	DSO 604 DATA COL	HUT SPEC FOCUS		WUP F&A	HUT C12	HUT C11	H/O	
BLUE FD 1 & 2	MS2 LAWRENCE	SLEEP							POST SLEEP							H/O		M N V R	M N V R
	MS3 JERNIGAN	SLEEP							POST SLEEP							H/O		I P S M T A T	I D O P
	PS1 DURRANCE	SLEEP							POST SLEEP							H/O		J5 OBS	J5 OBS
DAY/NIGHT																			
ORBIT	9 10 11 12 13 14 15 16																		
SA																			
TDRS																			
ATT	CELESTIAL @G387/388 -ZLV CELESTIAL @SAREX TEST																		
NOTES:	@DSO 488 @G387/388 @SAREX TEST																		



GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE					
062:18:37/ 063:06:37		001:12:00/ 002:00:00		062:12:37/ 063:00:37		/062 CST	21.6	●	MARCH 3, 1995	STS-67	FINAL	02/10/95					
CST :062		MET :001										CST:063 MET:002					
RED FD 3	CDR OSWALD	SLEEP	POST SLEEP	MACE CONFIG 2	MACE 2 ID OPS	MACE CONFIG 1	PAVENT	LUNCH	MACE 1 ID OPS	MACE 1 PREPROG OPS			KIS D/L				
	PLT GREGORY	FAN & TEMP	CMIX D	MACE CONFIG 2	PAO TV SETUP	PAVENT	LUNCH	PILOT DTO TRNG	MACE 1 PREPROG OPS			H/O	PRE SLEEP				
	MS1 GRUNSFELD	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	MACE 1 PREPROG OPS			H/O	PRE SLEEP				
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	PRE SLEEP				
BLUE FD 2 & 3	MS2 LAWRENCE	PRE SLEEP	SLEEP					POST SLEEP			H/O	MNVR					
	MS3 JERNIGAN	PRE SLEEP	SLEEP					POST SLEEP			H/O	MNVR					
	PS1 DURRANCE	PRE SLEEP	SLEEP					POST SLEEP			H/O	J5 OBS					
DAY/NIGHT		ORBIT		SAA		TDRS		ATT		CELESTIAL			NOTES:				
		25		26		27		28		29		30		31		32	
		E		W													
		●DSO 326		■MCIU FLTR CHECK		●DTO 667		●TARKINGTON		●MACE TEMP STOW							
		●FORMALDEHYDE MEASUREMENT															



GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE						
063:18:37/ 064:06:37		002:12:00/ 003:00:00		063:12:37/ 064:00:37		/063 CST	22.0	●	MARCH 4, 1995	STS-67	FINAL	02/10/95						
CST	:063	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:064			
MET	:002	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:003			
RED FD 4	CDR OSWALD	WASTE WATER DUMP		MACE CONFIG 1		MACE 1 PREPROG OPS			LUNCH	MACE 1 PREPROG OPS			KIS D/L					
	PLT GREGORY	MNVR	FAN & TEMP	MNVR	SP/TV16 SETUP	MNVR	PILOT DTO TRNG	MNVR	LUNCH	MNVR	MNVR	MNVR	MNVR	MNVR	H/O PRE SLEEP			
	MS1 GRUNSFELD								LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O PRE SLEEP			
	PS2 PARISE		J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O PRE SLEEP			
BLUE FD 3 & 4	MS2 LAWRENCE	PRE SLEEP		SLEEP						POST SLEEP		MNVR	H/O	VOICE	PF/LT/OD BK			
	MS3 JERNIGAN	PRE SLEEP		SLEEP						POST SLEEP		H/O						
	PS1 DURRANCE	PRE SLEEP		SLEEP						POST SLEEP		H/O	VOICE	J5 OBS				
DAY/NIGHT	40		41		42		43		44		45		46		47		48	
ORBIT	40		41		42		43		44		45		46		47		48	
SAA																		
TDRS																		
ATT																		
NOTES:			●DSO 326		●DTO 667		■ CELESTIAL		■ MCIU FLTR CHECK		●MACE TEMP STOW		●MS1 PERSONAL		●CHISUM		●FULLRIGHT	

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE		FLIGHT	EDITION	PUB. DATE											
064:06:37/ 064:18:37		003:00:00/ 003:12:00		064:00:37/ 064:12:37		/064 CST	22.0		MARCH 5, 1995		STS-67	FINAL	02/10/95											
CST	:064	0	1	2	3	4	5	6	7	8	9	10	11	12										
MET	:003	0	1	2	3	4	5	6	7	8	9	10	11	12										
RED FD 4 & 5	CDR OSWALD	PRE SLEEP				SLEEP						POST SLEEP		PRIV MED FOOD UTILS										
	PLT GREGORY	PRE SLEEP		SLEEP						POST SLEEP		H/O	RISZM											
	MS1 GRUNSFELD	PRE SLEEP		SLEEP						POST SLEEP		H/O	FOOD UTILS											
	PS2 PARISE	PRE SLEEP		SLEEP						POST SLEEP		H/O	J5 OBS UTILS											
BLUE FD 4	MS2 LAWRENCE	PF/TT VO BK	CMIX F	MNVR	VOICE SARRIX	MNVR	MNVR	MNVR	MNVR	PAO TV SETUP	MNVR	LUNCH	MNVR	LUNCH	EVENT	FAN & TEMP CK	VOICE SERVIX	MNVR	MNVR	MNVR	MNVR	H/O	PRE SLEEP	
	MS3 JERNIGAN	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	J5 OBS	LUNCH	EVENT	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	VOICE SARRIX	H/O	PRE SLEEP
	PS1 DURRANCE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
DAY/NIGHT	48		49		50		51		52		53		54		55		56							
ORBIT	48		49		50		51		52		53		54		55		56							
SAA																								
TDRS	E																							
ATT	W																							
NOTES:	①MS3 PERSONAL		①TRI CITY						CELESTIAL						①MS2 PERSONAL									

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE								
064:18:37 / 065:06:37		003:12:00 / 004:00:00		064:12:37 / 065:00:37		/064 CST	21.8	☉	MARCH 5, 1995	STS-67	FINAL	02/10/95								
CST	:064	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:065					
MET	:003	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:004					
RED FD 5	CDR OSWALD	SCHEDULE D ON						LUNCH	VOICE X R E C E				VOICE X R E C E	FILTER CLEANING	PRE SLEEP					
	PLT GREGORY		FAN & TEMP	M R N V R	M I N I M U M S I D E	P I L O T D T O T R N G	M N V R	M N V R	LUNCH	M N V R	LUNCH	M N V R	M N V R	M N V R	M N V R	M N V R	F I L T E R I N G	H/O	PRE SLEEP	
	MS1 GRUNSFELD								J5 OBS		LUNCH								H/O	PRE SLEEP
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
BLUE FD 4 & 5	MS2 LAWRENCE	PRE SLEEP		SLEEP						POST SLEEP				M N V R						
	MS3 JERNIGAN	PRE SLEEP		SLEEP						POST SLEEP				H O J 5 O B S						
	PS1 DURRANCE	PRE SLEEP		SLEEP						POST SLEEP				H/O J5 OBS						
DAY/NIGHT	ORBIT		56	57	58	59	60	61	62	63										
SAA																				
TDRS	E	[Timeline]																		
ATT	W	[Timeline]																		
NOTES:	●DSO 326   ●DTO 667   CELESTIAL   ●COBRAM   ●CDR PERSONAL																			



GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE			
065:06:37/ 065:18:37		004:00:00/ 004:12:00		065:00:37/ 065:12:37		/065 CST	21.5		MARCH 6, 1995	STS-67	FINAL	02/10/95			
CST	:065	0	1	2	3	4	5	6	7	8	9	10	11	12	
MET	:004	0	1	2	3	4	5	6	7	8	9	10	11	12	
RED FD 5 & 6	CDR OSWALD	PRE SLEEP				SLEEP				POST SLEEP				PROG MIBS	
	PLT GREGORY	PRE SLEEP				SLEEP				POST SLEEP				H/O MIBS	
	MS1 GRUNSFELD	PRE SLEEP				SLEEP				POST SLEEP				H/O MIBS	
	PS2 PARISE	PRE SLEEP				SLEEP				POST SLEEP				H/O MIBS	
BLUE FD 5	MS2 LAWRENCE	CMIX G	FAN & TIE COCKPIT	LUNCH	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O MIBS
	MS3 JERNIGAN	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O MIBS
	PS1 DURRANCE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O MIBS
DAY/NIGHT	[Shaded bars indicating day/night cycle]														
ORBIT	64 65 66 67 68 69 70 71														
SAA	[Shaded bars indicating SAA]														
TDRS	[Shaded bars indicating TDRS]														
ATT	[Shaded bars indicating ATT]														
NOTES:	@LITTLE LILLYS @SOUTH AFRICA B/U @JJ FRAY @DS0 326														

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE							
065:18:37/ 066:06:37		004:12:00/ 005:00:00		065:12:37/ 066:00:37		/065 CST	21.0		MARCH 6, 1995	STS-67	FINAL	02/10/95							
CST	:065	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:066				
MET	:004	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:005				
RED FD 6	CDR OSWALD						LUNCH		EVENT		VOICE SARCEX	WASTE WATER DUMP			PRE SLEEP				
	PLT GREGORY	FAN & TEMP	MNVR	MNVR	MNVR	MNVR	PILOT DTD TRNG	PAO TV SETUP	MNVR	LUNCH	MNVR	EVENT	MNVR	MNVR	MNVR	MNVR	MNVR	H/O	PRE SLEEP
	MS1 GRUNSFELD									LUNCH	J5 OBS	J5 OBS						H/O	PRE SLEEP
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O
BLUE FD 5 & 6	MS2 LAWRENCE	PRE SLEEP							SLEEP							POST SLEEP	H/O	MNVR	
	MS3 JERNIGAN	PRE SLEEP							SLEEP							POST SLEEP	VOICE SARCEX	H/O	OFF DUTY
	PS1 DURRANCE	PRE SLEEP							SLEEP							POST SLEEP	H/O	J5 OBS	
DAY/NIGHT																			
ORBIT	72		73		74		75		76		77		78		79				
SAA																			
TDRS																			
ATT																			
NOTES:	CELESTIAL ●DSO 326                      ●PLYMOUTH CENTER                      ●KY TECH CENTER ●OTO 667                      ■ MCIU FLTR CHECK                      ●PLT PERSONAL                      ●WAIHE'E ELEM																		

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE											
066:06:37/ 066:18:37		005:00:00/ 005:12:00		066:00:37/ 066:12:37		/066 CST	20.4		MARCH 7, 1995	STS-67	FINAL	02/10/95											
CST	:066	0	1	2	3	4	5	6	7	8	9	10	11	12									
MET	:005	0	1	2	3	4	5	6	7	8	9	10	11	12									
RED FD 6 & 7	CDR <i>OSWALD</i>	PRE SLEEP						SLEEP						POST SLEEP		P R I V M E O	C O N F M E O						
	PLT <i>GREGORY</i>	PRE SLEEP						SLEEP						POST SLEEP		M N V R	H / O	P S E T U P O B					
	MS1 <i>GRUNSFELD</i>	PRE SLEEP						SLEEP						POST SLEEP		H / O	O F F D U T Y						
	PS2 <i>PARISE</i>	PRE SLEEP						SLEEP						POST SLEEP		H / O	J 5 O B S						
BLUE FD 6	MS2 <i>LAWRENCE</i>	M N V R	F A N & T E M P C K	M N V R	M N V R	M N V R	M N V R	M N V R	L U N C H	M N V R	L U N C H	M N V R	M N V R	M N V R	M N V R	M N V R	M N V R	H / O	P R E S L E E P				
	MS3 <i>JERNIGAN</i>	O F F D U T Y						L U N C H		J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	H / O	P R E S L E E P			
	PS1 <i>DURRANCE</i>	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	J 5 O B S	L U N C H	O F F D U T Y						H / O	P R E S L E E P					
DAY/NIGHT																							
ORBIT	80		81			82			83			84			85			86			87		
SAA																							
TDRS																							
ATT																							
ATT	CELESTIAL																						
NOTES:																							

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE						
066:18:37/ 067:06:37		005:12:00/ 006:00:00		066:12:37/ 067:00:37		/066 CST	19.7		MARCH 7, 1995	STS-67	FINAL	02/10/95						
CST	:066	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:067			
MET	:005														0 MET:006			
RED FD 7	CDR OSWALD	KIS UPLINK		MACE CONFIG 1	MACE 1 UPLNKD OPS			LUNCH	MACE1 PP/UPLKD OPS			KIS D/L		PRE SLEEP				
	PLT GREGORY	MNV R	FAN & TEMP	P/SET V/UP 16	MNV R	MNV R	W/OBS	MNV R	SAR K/EC FIC	MNV R	LUNCH	MNV R	MNV R	MNV R	PILOT D/TG TRNG	MNV R	H/O	PRE SLEEP
	MS1 GRUNSFELD	OFF DUTY				LUNCH		J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	OFF DUTY						H/O	PRE SLEEP		
BLUE FD 6 & 7	MS2 LAWRENCE	PRE SLEEP		SLEEP						POST SLEEP		H/O	P/SET V/UP 8					
	MS3 JERNIGAN	PRE SLEEP		SLEEP						POST SLEEP		H/O						
	PS1 DURRANCE	PRE SLEEP		SLEEP						POST SLEEP		H/O	J5 OBS					
DAY/NIGHT	[Shaded]		[Shaded]		[Shaded]		[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]					
ORBIT	88		89		90		91	92	93	94	95							
SAA	[Timeline]																	
TDRS	[Timeline]																	
ATT	[Timeline]																	
NOTES:	◎DSO 326    ◎COBRAM B/U    ■ MCIU FLTR CHECK    ◎MACE TEMP STOW ◎CHISUM B/U    ◎DTO 667																	

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE									
067:06:37/ 067:18:37		006:00:00/ 006:12:00		067:00:37/ 067:12:37		/067 CST	18.9		MARCH 8, 1995	STS-67	FINAL	02/10/95									
CST	:067	0	1	2	3	4	5	6	7	8	9	10	11	12							
MET	:006	0	1	2	3	4	5	6	7	8	9	10	11	12							
RED FD 7 & 8	CDR OSWALD	PRE SLEEP						SLEEP						POST SLEEP		▲ TRIM BURN OPP	PC RO IN VF MED				
	PLT GREGORY	PRE SLEEP						SLEEP						POST SLEEP		H/O M N V R 8	P L T F O O K				
	MS1 GRUNSFELD	PRE SLEEP						SLEEP						POST SLEEP		H/O M N V R 8	P L T F O O K				
	PS2 PARISE	PRE SLEEP						SLEEP						POST SLEEP		H/O M N V R 8	J5 OBS				
BLUE FD 7	MS2 LAWRENCE	FAN & TEMP CK	M N V R	M N V R	M N V R	M N V R	LUNCH	M N V R	LUNCH	M N V R	PAO TV SETUP	P A O E V E N T	M N V R	M N V R	M N V R	M N V R	M N V R	M N V R	H/O	PRE SLEEP	
	MS3 JERNIGAN	H/O	H/O	H/O	H/O	H/O	LUNCH	H/O	J5 OBS	H/O	J5 OBS	H/O	P/TV 2 OR 3 SETUP	H/O	CHEMICAL	H/O	H/O	H/O	H/O	H/O	PRE SLEEP
	PS1 DURRANCE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	J5 OBS	H/O	P A O E V E N T	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
DAY/NIGHT	95		96		97		98		99		100		101		102		103				
ORBIT	95		96		97		98		99		100		101		102		103				
SAA																					
TDRS	E W																				
ATT	CELESTIAL																				
NOTES:																					

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																			
067:18:37/ 068:06:37		006:12:00/ 007:00:00		067:12:37/ 068:00:37		/067 CST	17.9		MARCH 8, 1995	STS-67	FINAL	02/10/95																			
CST :067												CST:068																			
MET :006												MET:007																			
RED FD 8	CDR OSWALD	FAM CONF		PEVENT		LUNCH		S VOIRCE		PILOT DTO TRNG		FILTER CLEANING		PRE SLEEP																	
	PLT GREGORY	MNVVR		FAN & TEMP		PAO TV SETUP		PEVENT		LUNCH		S VOIRCE		MNVVR		P/TV 2 OR 3 SETUP		PILOT DTO TRNG		S VOIRCE		MNVVR		FILTER CLEANING		MNVVR		PRE SLEEP			
	MS1 GRUNSFELD	H/O		H/O		H/O		PEVENT		LUNCH		J5 OBS		H/O		H/O		S VOIRCE		H/O		H/O		H/O		J5 OBS		H/O		PRE SLEEP	
	PS2 PARISE	J5 OBS		J5 OBS		DSO 326		J5 OBS		J5 OBS		LUNCH		J5 OBS		J5 OBS		J5 OBS		J5 OBS		J5 OBS		J5 OBS		H/O		PRE SLEEP			
BLUE FD 7 & 8	MS2 LAWRENCE	PRE SLEEP				SLEEP						POST SLEEP		H/O		PFLT VODK															
	MS3 JERNIGAN	PRE SLEEP				SLEEP						POST SLEEP		H/O		H/O		J5 OBS													
	PS1 DURRANCE	PRE SLEEP				SLEEP						POST SLEEP		H/O																	
DAY/NIGHT																															
ORBIT		103		104		105		106		107		108		109		110		111													
SAA																															
TDRS		E		W																											
ATT																															
NOTES:		p PRIV MED CONF		● FORMALDEHYDE MEASUREMENT		● PLANK ROAD		● WILLIAM BRYANT		● DTO 667		● ST PETERS																			
		● DSO 326								● HIGHLAND PARK																					

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
068:06:37/ 068:18:37	007:00:00/ 007:12:00	068:00:37/ 068:12:37	/068 CST	16.8		MARCH 9, 1995	STS-67	FINAL	02/10/95

CST :068	1	2	3	4	5	6	7	8	9	10	11	12	
MET :007	0	1	2	3	4	5	6	7	8	9	10	11	12

RED FD 8 & 9	CDR <i>OSWALD</i>	PRE SLEEP											SLEEP											POST SLEEP	CONF MED FAM COCT
	PLT <i>GREGORY</i>	PRE SLEEP											SLEEP											POST SLEEP	H/O PS IT VL OP 8
	MS1 <i>GRUNSFELD</i>	PRE SLEEP											SLEEP											POST SLEEP	H/O PS IT VL OP 8
	PS2 <i>PARISE</i>	PRE SLEEP											SLEEP											POST SLEEP	H/O PS IT VL OP 8 J5 OBS

BLUE FD 8	MS2 <i>LAWRENCE</i>	MNV R	FAN & TEMP CK	MNV R	MNV R	R-Z-R	R-Z-R	R-Z-R	LUNCH	MNV R	LUNCH	R-Z-R	R-Z-R	R-Z-R	MNV R	MNV R	MNV R	MNV R	MNV R	H/O	PRE SLEEP
	MS3 <i>JERNIGAN</i>	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
	PS1 <i>DURRANCE</i>	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O

DAY/NIGHT	111	112	113	114	115	116	117	118	119
ORBIT									
SAA									
TDRS									
ATT	CELESTIAL								

NOTES: @DSO 488

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																		
068:18:37/ 069:06:37		007:12:00/ 008:00:00		068:12:37/ 069:00:37		/068 CST	15.6		MARCH 9, 1995	STS-67	FINAL	02/10/95																		
CST	:068	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:069															
MET	:007	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:008															
RED FD 9	CDR OSWALD	WASTE WATER DUMP		MACE CONFIG 2	MACE 2 ID/FLEX OPS	REMOVE FILE X	EVENT	LUNCH	MACE 2 PREPROG OPS			KIS D/L		PRE SLEEP																
	PLT GREGORY	PS/TT VU 8	FAN & TEMP	PILOT DTO TRNG	P/T V 16	SEMINAR	WINDDOWN	MNVR	PAO TV	MNVR	EVENT	MNVR	LUNCH	MNVR	LUNCH	MNVR	MNVR	MNVR	MNVR	MNVR	P/TV 2 OR 3 SETUP	MNVR	CHOICE	MNVR	MNVR	RECONFIG	MNVR	H/O	PRE SLEEP	
	MS1 GRUNSFELD										EVENT	LUNCH	J5 OBS	J5 OBS															H/O	PRE SLEEP
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
BLUE FD 8 & 9	MS2 LAWRENCE	PRE SLEEP		SLEEP						POST SLEEP						H/O														
	MS3 JERNIGAN	PRE SLEEP		SLEEP						POST SLEEP						H/O														
	PS1 DURRANCE	PRE SLEEP		SLEEP						POST SLEEP						H/O	J5 OBS													
DAY/NIGHT	119		120		121		122		123		124		125		126															
ORBIT	119		120		121		122		123		124		125		126															
SAA	119		120		121		122		123		124		125		126															
TDRS	119		120		121		122		123		124		125		126															
ATT	119		120		121		122		123		124		125		126															
NOTES:			◎ DTO 667		◎ DSO 326		■ CELESTIAL		■ MCIU FLTR CHECK		◎ MACE TEMP STOW		◎ HTR CONFIG																	
									◎ RENFROE		◎ FORMALDEHYDE MEASUREMENT		◎ PCS CONFIG		◎ RCRS RECONFIG															
													◎ CABIN TEMP CNTL RECONFIG																	








GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																												
070:06:37/ 070:18:37		009:00:00/ 009:12:00		070:00:37/ 070:12:37		/070 CST	11.5		MARCH 11, 1995	STS-67	FINAL	02/10/95																												
CST	:070	0	1	2	3	4	5	6	7	8	9	10	11	12																										
MET	:009	0	1	2	3	4	5	6	7	8	9	10	11	12																										
RED FD 10 & 11	CDR OSWALD	PRE SLEEP					SLEEP					POST SLEEP		TRIM BURN OPP																										
	PLT GREGORY	PRE SLEEP					SLEEP					POST SLEEP		H/O																										
	MS1 GRUNSFELD	PRE SLEEP					SLEEP					POST SLEEP		H/O																										
	PS2 PARISE	PRE SLEEP					SLEEP					POST SLEEP		H/O J5 OBS																										
BLUE FD 10	MS2 LAWRENCE	R	R	FAN & TEMP CK	M	N	V	R	M	N	V	R	R	K	N	M	LUNCH	P/TV 2 OR 3 SETUP	M	N	V	R	R	K	N	M	R	V	N	R	M	R	V	N	R	M	H	O	PRE SLEEP	
	MS3 JERNIGAN	H	O	H	O	H	O	H	O	H	O	H	O	H	O	H	O	LUNCH	J5 OBS	H	O	H	O	H	O	H	O	H	O	H	O	H	O	H	O	H	O	H	O	PRE SLEEP
	PS1 DURRANCE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	C	O	I	O	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP																			
DAY/NIGHT	DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT	
ORBIT	143		144		145		146		147		148		149		150																									
SAA	E		W		E		W		E		W		E		W		E		W		E		W		E		W		E		W		E		W		E		W	
TDRS	E		W		E		W		E		W		E		W		E		W		E		W		E		W		E		W		E		W		E		W	
ATT	CELESTIAL																																							
NOTES:																																								

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE				
070:18:37/ 071:06:37		009:12:00/ 010:00:00		070:12:37/ 071:00:37		/070 CST	10.0		MARCH 11, 1995	STS-67	FINAL	02/10/95				
CST	:070	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:071	
MET	:009	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:010	
RED FD 11	CDR OSWALD	PRIV M E E	CONF M E E				PA E V E N T	LUNCH							WASTE WATER DUMP	PRE SLEEP
	PLT GREGORY	M N V R	M N V R	FAN & TEMP			PAO TV SETUP	M N V R	LUNCH	M N V R						H/O PRE SLEEP
	MS1 GRUNSFELD						PA E V E N T	J5 OBS	LUNCH							H/O PRE SLEEP
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS					J5 OBS	H/O PRE SLEEP
BLUE FD 10 & 11	MS2 LAWRENCE		PRE SLEEP					SLEEP							POST SLEEP	H/O
	MS3 JERNIGAN		PRE SLEEP					SLEEP							POST SLEEP	H/O OFF DUTY
	PS1 DURRANCE		PRE SLEEP					SLEEP							POST SLEEP	H/O J5 OBS
DAY/NIGHT																
ORBIT		151		152		153		154		155		156		157	158	
SAA																
TDRS	E W															
ATT								CELESTIAL								
NOTES:			DSO 326					MCIU FLTR CHECK		DTO 667		PS2 PERSONAL				
										BISHOP						

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON 	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE					
071:06:37/ 071:18:37		010:00:00/ 010:12:00		071:00:37/ 071:12:37		/071 CST	8.4		MARCH 12, 1995	STS-67	FINAL	02/10/95					
CST	:071	0	1	2	3	4	5	6	7	8	9	10	11	12			
MET	:010	0	1	2	3	4	5	6	7	8	9	10	11	12			
RED FD 11 & 12	CDR <i>OSWALD</i>	PRE SLEEP				SLEEP						POST SLEEP	PRO INF MED	KIS UPLINK			
	PLT <i>GREGORY</i>	PRE SLEEP				SLEEP						POST SLEEP	H/O M N V R				
	MS1 <i>GRUNSFELD</i>	PRE SLEEP				SLEEP						POST SLEEP	H/O	OFF DUTY			
	PS2 <i>PARISE</i>	PRE SLEEP				SLEEP						POST SLEEP	H/O M N V R	J5 OBS			
BLUE FD 11	MS2 <i>LAWRENCE</i>	M N V R	FAN & TEMP CK	P/TV09 P/TV09 SETUP MID DK	M N V R	M N V R	M N V R	LUNCH	M N V R	M N V R	M N V R	M N V R	M N V R	M N V R	H/O	PRE SLEEP	
	MS3 <i>JERNIGAN</i>	OFF DUTY				LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
	PS1 <i>DURRANCE</i>	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	OFF DUTY						H/O	PRE SLEEP	
DAY/NIGHT	ORBIT		158	159	160	161	162	163	164	165	166						
SAA																	
TDRS	E	[Timeline bars]															
ATT	CELESTIAL																
NOTES:																	

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
071:18:37/ 072:06:37	010:12:00/ 011:00:00	071:12:37/ 072:00:37	/071 CST	6.8		MARCH 12, 1995	STS-67	FINAL	02/10/95

CST :071	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:072
MET :010	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:011

RED FD 12	CDR OSWALD	KIS UPLINK	MACE CONFIG 1	MACE 1 UPLNK OPS				MACE CONFIG 2	LUNCH	MACE2 FLEX UPL OPS				MACE DEACT	FILTER CLEANING	PRE SLEEP										
	PLT GREGORY	FAN & TEMP	MNVR	MNVR	P/TTV 16	MNVR	MNVR	MNVR	LUNCH	MNVR	LUNCH	MNVR	SVORICE	MNVR	MNVR	MNVR	MNVR	PILOT DTO TRNG	MNVR	MACE DEACT	MNVR	FILTER CLEANING	FILTER CLEANING	H/O	PRE SLEEP	
	MS1 GRUNSFELD	OFF DUTY				LUNCH				J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	PRE SLEEP
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	OFF DUTY								H/O	PRE SLEEP						

BLUE FD 11 & 12	MS2 LAWRENCE	PRE SLEEP	SLEEP				POST SLEEP				H/O
	MS3 JERNIGAN	PRE SLEEP	SLEEP				POST SLEEP	SVORICE	POST SLEEP	H/O	J5 OBS
	PS1 DURRANCE	PRE SLEEP	SLEEP				POST SLEEP				H/O


DAY/NIGHT	166	167	168	169	170	171	172	173	174
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SAA	[SAA Schedule]								
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TDRS	E	W	[TDRS Schedule]								
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ATT	[ATT Schedule]								
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NOTES:	@DSO 326                      @LOCKPORT                      @DTO 667                      @PEARL CITY MNRV								
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GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON 	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE												
072:06:37/ 072:18:37		011:00:00/ 011:12:00		072:00:37/ 072:12:37		/072 CST	5.1		MARCH 13, 1995	STS-67	FINAL	02/10/95												
CST	:072	0	1	2	3	4	5	6	7	8	9	10	11	12										
MET	:011	0	1	2	3	4	5	6	7	8	9	10	11	12										
RED FD 12 & 13	CDR <i>OSWALD</i>	PRE SLEEP				SLEEP				POST SLEEP				PRON MED	FAM CONF									
	PLT <i>GREGORY</i>	PRE SLEEP				SLEEP				POST SLEEP				H/O										
	MS1 <i>GRUNSFELD</i>	PRE SLEEP				SLEEP				POST SLEEP				H/O										
	PS2 <i>PARISE</i>	PRE SLEEP				SLEEP				POST SLEEP				H/O										
BLUE FD 12	MS2 <i>LAWRENCE</i>	MNVR	FAN & TEMP CK	MNVR	PZTV08	SETUP	PF/TTV08BK	MNVR	MNVR	PAO TV SETUP	MNVR	LUNCH	MNVR	LUNCH	PAO	EVENT	MNVR	MNVR	MNVR	MNVR	MNVR	H/O	PRE SLEEP	
	MS3 <i>JERNIGAN</i>	VOIC	VOIC	VOIC	VOIC	J5 OBS	VOIC	VOIC	VOIC	VOIC	VOIC	LUNCH	VOIC	VOIC	VOIC	VOIC	VOIC	VOIC	VOIC	VOIC	VOIC	VOIC	H/O	PRE SLEEP
	PS1 <i>DURRANCE</i>	J5 OBS	VOIC	VOIC	VOIC	J5 OBS	J5 OBS	J5 OBS	VOIC	J5 OBS	VOIC	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP
DAY/NIGHT	DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT	
ORBIT	174		175		176		177		178		179		180		181		182							
SAA																								
TDRS	E W																							
ATT	CELESTIAL																							
NOTES:	⊙PS1 PERSONAL																							

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE				
072:18:37/ 073:06:37		011:12:00/ 012:00:00		072:12:37/ 073:00:37		/072 CST	3.4		MARCH 13, 1995	STS-67	FINAL	02/10/95				
CST	:072	13	14	15	16	17	18	19	20	21	22	23	0	CST:073		
MET	:011	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:012	
RED FD 13	CDR OSWALD				SV AR ECE		PA ENT	SV AR ECE	SV AR ECE	LUNCH					SV AR ECE	PRE SLEEP
	PLT GREGORY	FAN & TEMP					PA ENT	MN VR	LUNCH						MN VR	H/O PRE SLEEP
	MS1 GRUNSFELD						J5 OBS		LUNCH							H/O PRE SLEEP
	PS2 PARISE		J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	PA ENT	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O PRE SLEEP
BLUE FD 12 & 13	MS2 LAWRENCE	PRE SLEEP							SLEEP						SV AR ECE	H/O M N V R
	MS3 JERNIGAN	PRE SLEEP							SLEEP							H/O
	PS1 DURRANCE	PRE SLEEP							SLEEP							H/O J 5 O B S
DAY/NIGHT	182		183		184		185		186		187		188		189	
ORBIT	182		183		184		185		186		187		188		189	
SAA																
TDRS	E W															
ATT	CELESTIAL															
NOTES:	●DSO 326      ●BREWTON      ●DTO 667      ●NAVAL ACADEMY ●BISHOP B/U      ■ MCIU FLTR CHECK      ●TARKINGTON B/U ■ APU HTR RECONFIG															



GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON 	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
073:06:37/ 073:18:37	012:00:00/ 012:12:00	073:00:37/ 073:12:37	/073 CST	1.6		MARCH 14, 1995	STS-67	FINAL	02/10/95

CST :073	0	1	2	3	4	5	6	7	8	9	10	11	12
MET :012	0	1	2	3	4	5	6	7	8	9	10	11	12

RED FD 13 & 14	CDR <i>OSWALD</i>	PRE SLEEP	SLEEP										POST SLEEP	CREW CONF	
	PLT <i>GREGORY</i>	PRE SLEEP	SLEEP										POST SLEEP	CREW CONF	H/O
	MS1 <i>GRUNSFELD</i>	PRE SLEEP	SLEEP										POST SLEEP	CREW CONF	H/O
	PS2 <i>PARISE</i>	PRE SLEEP	SLEEP										POST SLEEP	CREW CONF	H/O

BLUE FD 13	MS2 <i>LAWRENCE</i>	FAN & TEMP CK	MNVR	MNVR	PZ	SETUP	PL/TV	OD BK	MNVR	MNVR	MNVR	MNVR	LUNCH	MNVR	MNVR	MNVR	MNVR	MNVR	P/TV15 SETUP	MNVR	MNVR	CREW CONF	H/O	MNVR
	MS3 <i>JERNIGAN</i>					IMC	GYRO						J5 OBS	J5 OBS	LUNCH							CREW CONF	H/O	
	PS1 <i>DURRANCE</i>	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS

DAY/NIGHT	[Shaded]												
ORBIT	190	191	192	193	194	195	196	197					
SAA													
TDRS	[Timeline]												
ATT	CELESTIAL												

NOTES: ■ FAN & TEMP

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE						
073:18:37 / 074:06:37		012:12:00 / 013:00:00		073:12:37 / 074:00:37		/073 CST	-0.1		MARCH 14, 1995	STS-67	FINAL	02/10/95						
CST	:073	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:074			
MET	:012	12	13	14	15	16	17	18	19	20	21	22	23	0	MET:013			
RED FD 14	CDR OSWALD	WASTE WATER DUMP					SAOICM	LUNCH						PRE SLEEP				
	PLT GREGORY	FAM & TEM	RSM	P/TT VODK	MSK	MSK	MSK	LUNCH	MNVR	SAOICM	MNVR	MNVR	PILOT DTRNG	MNVR	MNVR	MNVR	H/O	PRE SLEEP
	MS1 GRUNSFELD	H/O	H/O	H/O	H/O	H/O	H/O	LUNCH	J5 OBS	H/O	J5 OBS	H/O	J5 OBS	H/O	H/O	H/O	H/O	PRE SLEEP
	PS2 PARISE	J5 OBS	J5 OBS	J5 OBS	J5 OBS	SAOICM	J5 OBS	J5 OBS	LUNCH	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	J5 OBS	H/O	PRE SLEEP	
BLUE FD 13 & 14	MS2 LAWRENCE	PRE SLEEP					SLEEP					POST SLEEP		H/O	MNVR			
	MS3 JERNIGAN	PRE SLEEP					SLEEP					POST SLEEP		H/O				
	PS1 DURRANCE	PRE SLEEP					SLEEP					POST SLEEP		H/O				
DAY/NIGHT	198		199		200		201		202		203		204		205			
ORBIT	198		199		200		201		202		203		204		205			
SAA																		
TDRS	E W																	
ATT	CELESTIAL																	
NOTES:	●DSO 326    ■ MCIU FLTR CHECK    ●ST PETERS B/U    ●WATSON    ●DTO 667 ●SILVER SPRINGS																	

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																				
074:06:37/ 074:18:37		013:00:00/ 013:12:00		074:00:37/ 074:12:37		/074 CST	-1.9		MARCH 15, 1995	STS-67	FINAL	02/10/95																				
CST	:074	0	1	2	3	4	5	6	7	8	9	10	11	12																		
MET	:013	0	1	2	3	4	5	6	7	8	9	10	11	12																		
RED FD 14 & 15	CDR OSWALD	PRE SLEEP						SLEEP						POST SLEEP		FCS C/O																
	PLT GREGORY	PRE SLEEP						SLEEP						POST SLEEP	POST SLEEP	H/O	FCS C/O															
	MS1 GRUNSFELD	PRE SLEEP						SLEEP						POST SLEEP	IPS STOW CHECK 1	IPS DEPLOY 1	IPS STOW CHECK 2	IPS DEPLOY 2														
	PS2 PARISE	PRE SLEEP						SLEEP						POST SLEEP																		
BLUE FD 14	MS2 LAWRENCE	FAN & TEMP CK	MNVR	MNVR	MNVR	MNVR	MNVR	MNVR	LUNCH	MNVR	PAVENT	MNVR	MNVR	MNVR	MNVR	MNVR	P/TV03 SETUP	P/TV03 OPS	H/O	FCS C/O												
	MS3 JERNIGAN	PAO TV SETUP						LUNCH						PAVENT	IPS STOW CHECK 1				IPS DEPLOY 1	IPS STOW CHECK 2	IPS DEPLOY 2											
	PS1 DURRANCE	LUNCH						PAVENT						A P U H T R A C T																		
DAY/NIGHT																																
ORBIT	206				207				208				209				210				211				212				213			
SAA																																
TDRS																																
ATT	CELESTIAL																															
NOTES:	■ APU HTR ACT																															

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																			
074:18:37/ 075:06:37		013:12:00/ 014:00:00		074:12:37/ 075:00:37		/074 CST	-3.7		MARCH 15, 1995	STS-67	FINAL	02/10/95																			
CST	:074	12	13	13	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	0	CST:075	0	MET:014				
MET	:013																														
RED FD 15	CDR OSWALD	FCS C/O	PRIV MED	CONF M	FAM C	CONF T																									
	PLT GREGORY	FCS C/O		MNVR	WIND	OB	MNVR	FAN & TEMP	MNVR	PAO TV SETUP	MNVR	EVENT	MNVR	MNVR	MNVR	LUNCH	MNVR	MNVR	PILOT DTRNG	MNVR	FILTER CLEANING	MNVR	H/O			PRE SLEEP					
	MS1 GRUNSFELD	H/O										EVENT				LUNCH								H/O			PRE SLEEP				
	PS2 PARISE	H/O	DSO 488	DUAL COPY								EVENT												DSO 488	H/O			PRE SLEEP			
BLUE FD 14 & 15	MS2 LAWRENCE	FCS C/O	PRE SLEEP													SLEEP											POST SLEEP	H/O	MNVR	MNVR	
	MS3 JERNIGAN	H/O	PRE SLEEP													SLEEP											POST SLEEP	H/O			
	PS1 DURRANCE	H/O	PRE SLEEP													SLEEP											POST SLEEP	H/O			
DAY/NIGHT																															
ORBIT			214		215		216		217		218		219		220		221														
SAA																															
TDRS	E W																														
ATT																															
NOTES:		DSO 488		DSO 326																											

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE					
075:06:37/ 075:18:37		014:00:00/ 014:12:00		075:00:37/ 075:12:37		/075 CST	-5.5	☉	MARCH 16, 1995	STS-67	FINAL	02/10/95					
CST	:075	0	1	2	3	4	5	6	7	8	9	10	11	12			
MET	:014	0	1	2	3	4	5	6	7	8	9	10	11	12			
RED FD 15 & 16	CDR OSWALD	PRE SLEEP	SLEEP								POST SLEEP	CON PRIV MED	PILOT DTO TRNG				
	PLT GREGORY	PRE SLEEP	SLEEP								POST SLEEP		PILOT DTO TRNG	H/O M N V R			
	MS1 GRUNSFELD	PRE SLEEP	SLEEP								POST SLEEP	P A D M		H/O			
	PS2 PARISE	PRE SLEEP	SLEEP								POST SLEEP			H/O D S T O O W 4 B B			
BLUE FD 15	MS2 LAWRENCE	FAN & TEMP CK	M N V R	M N V R	M N V R	M N V R	LUNCH	LUNCH	M N V R	M N V R	M N V R	M N V R	M N V R	M N V R	PILOT DTO TRNG	M N V R	H/O
	MS3 JERNIGAN						LUNCH										H/O
	PS1 DURRANCE						LUNCH										H/O
DAY/NIGHT		DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT	DAY	NIGHT
ORBIT	221	222	223	224	225	226	227	228	229								
SAA	[Timeline bars]																
TDRS	[Timeline bars]																
ATT	[Timeline bars]																
NOTES:	M N V R  CELESTIAL  ◎ DTO 667																

FORMALDEHYDE MEASUREMENT



GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE			
076:06:37/ 076:18:37		015:00:00/ 015:12:00		076:00:37/ 076:12:37		/076 CST	-8.9	☉	MARCH 17, 1995	STS-67	FINAL	02/10/95			
CST	:076	0	1	2	3	4	5	6	7	8	9	10	11	12	
MET	:015	0	1	2	3	4	5	6	7	8	9	10	11	12	
RED FD 16 & 17	CDR OSWALD	SLEEP						POST SLEEP	PRIV V D	PC R S H O T	FL R S H O T	M N V R	DEORBIT PREP		
	PLT GREGORY	SLEEP						POST SLEEP		PC R S H O T	FL R S H O T		DEORBIT PREP		
	MS1 GRUNSFELD	SLEEP						POST SLEEP		DSO 603C			DEORBIT PREP		
	PS2 PARISE	SLEEP						POST SLEEP		DSO 603C			DEORBIT PREP		
BLUE FD 16	MS2 LAWRENCE	POST SLEEP	R X S	P D R M	P S S M A T R O N E X	D C C A B L E	CABIN STOW		LUNCH	PC R S H O T	FL R S H O T	DE B O A T	DEORBIT PREP		
	MS3 JERNIGAN	POST SLEEP	CABIN STOW				PL D E A C T	SL D E A C T I V A T I O N	CABIN STOW	LUNCH	DSO 603C		DEORBIT PREP		
	PS1 DURRANCE	POST SLEEP	H U T - D A C T	U T - D A C T	W U P - D A C T	CABIN STOW		PL D E A C T	CABIN STOW	O S T O W	LUNCH	DSO 603C	DEORBIT PREP		
DAY/NIGHT	ORBIT		237	238	239	240	241	242	243	244	245				
SAA															
TDRS	E														
W															
ATT															
ATT	-ZLV +YVV														
ATT	-XSI														
ATT	COMM														
NOTES:	∇ KU-BD STOW ●SAREX														

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE			
076:18:37 / 077:06:37		015:12:00 / 016:00:00		076:12:37 / 077:00:37		/076 CST	-10.6	○	MARCH 17, 1995	STS-67	FINAL	02/10/95			
CST	:076	12	13	14	15	16	17	18	19	20	21	22	23	0	CST:077
MET	:015														0 MET:016
RED 17	CDR OSWALD	D P D P D P D P													
	PLT GREGORY	D P D P D P D P													
	MS1 GRUNSFELD	D P D P D P D P	D E O R B I T	K S C											
	PS2 PARISE	D P D P D P D P	B U R N *	L A N D I N G *											
BLUE 17	MS2 LAWRENCE	D P D P D P D P													
	MS3 JERNIGAN	D P D P D P D P													
	PS1 DURRANCE	D P D P D P D P													
DAY/NIGHT	[Bar chart showing day/night cycles]														
ORBIT	245	246	247	248	249	250	251	252							
SAA	[Bar chart showing SAA coverage]														
TDRS	[Bar chart showing TDRS coverage]														
ATT	COMM	D/O													
NOTES:	*D/O TIG 15/12:25		*KSC LANDING 15/13:32												



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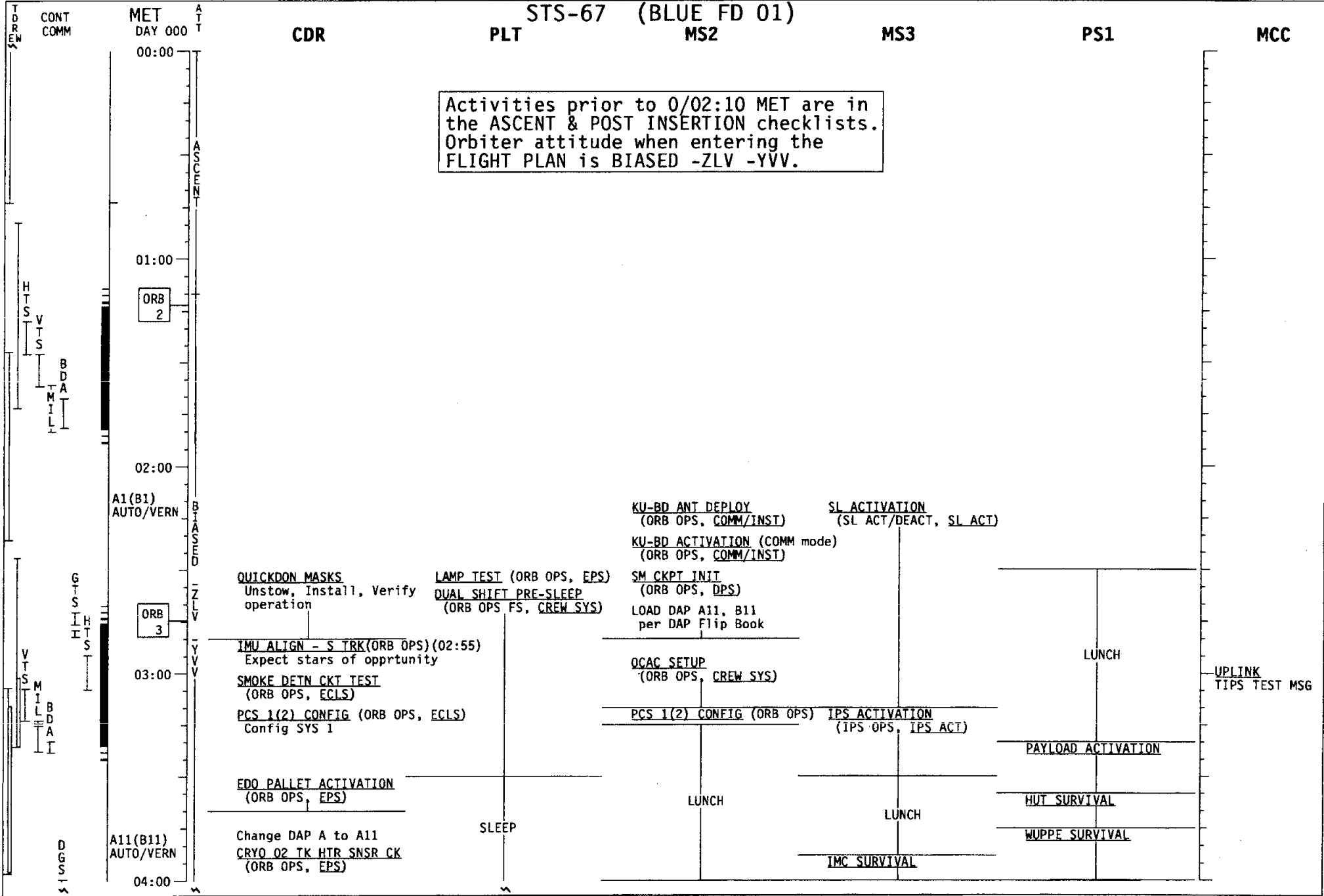
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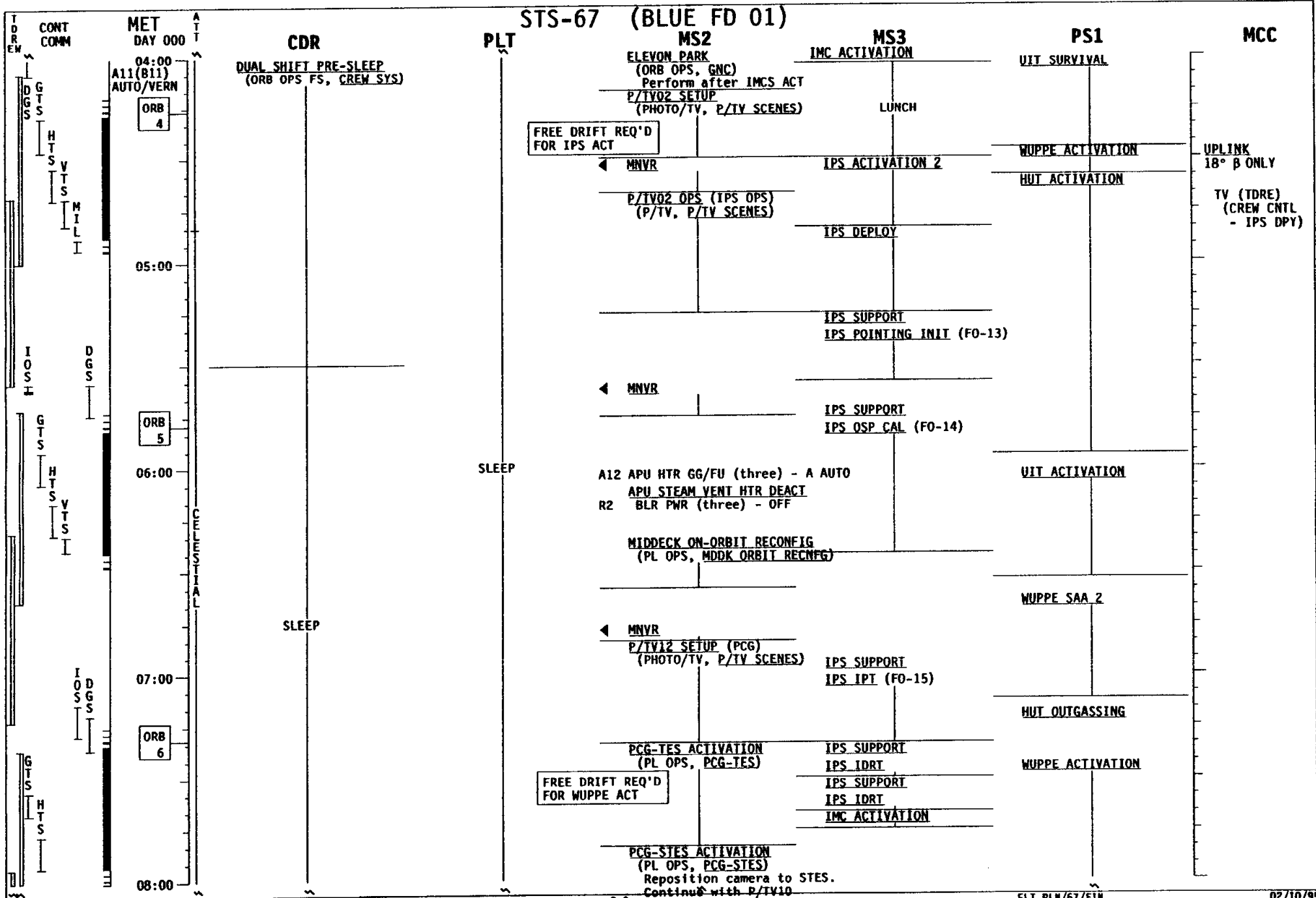
DETAILED  
TIMELINE

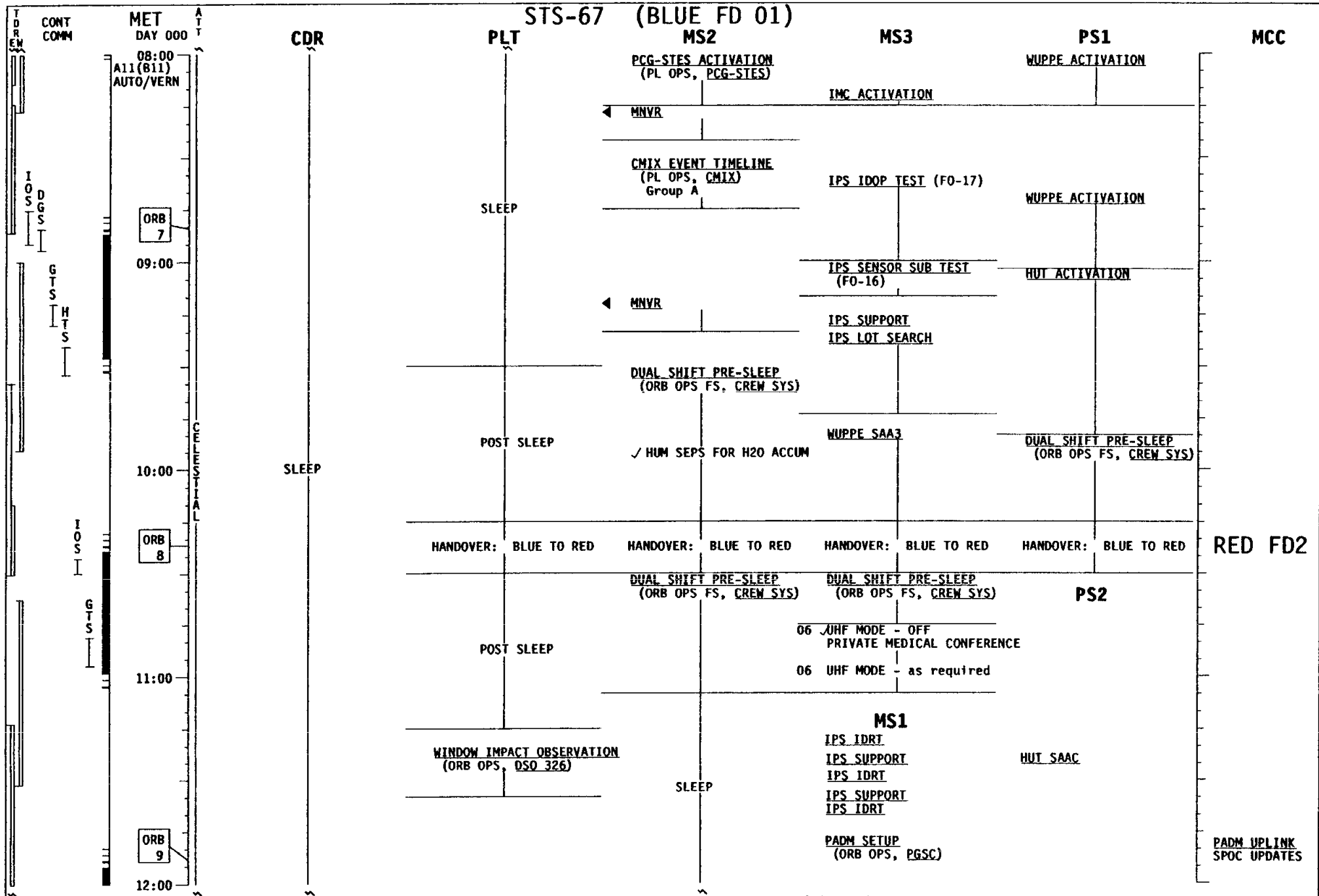
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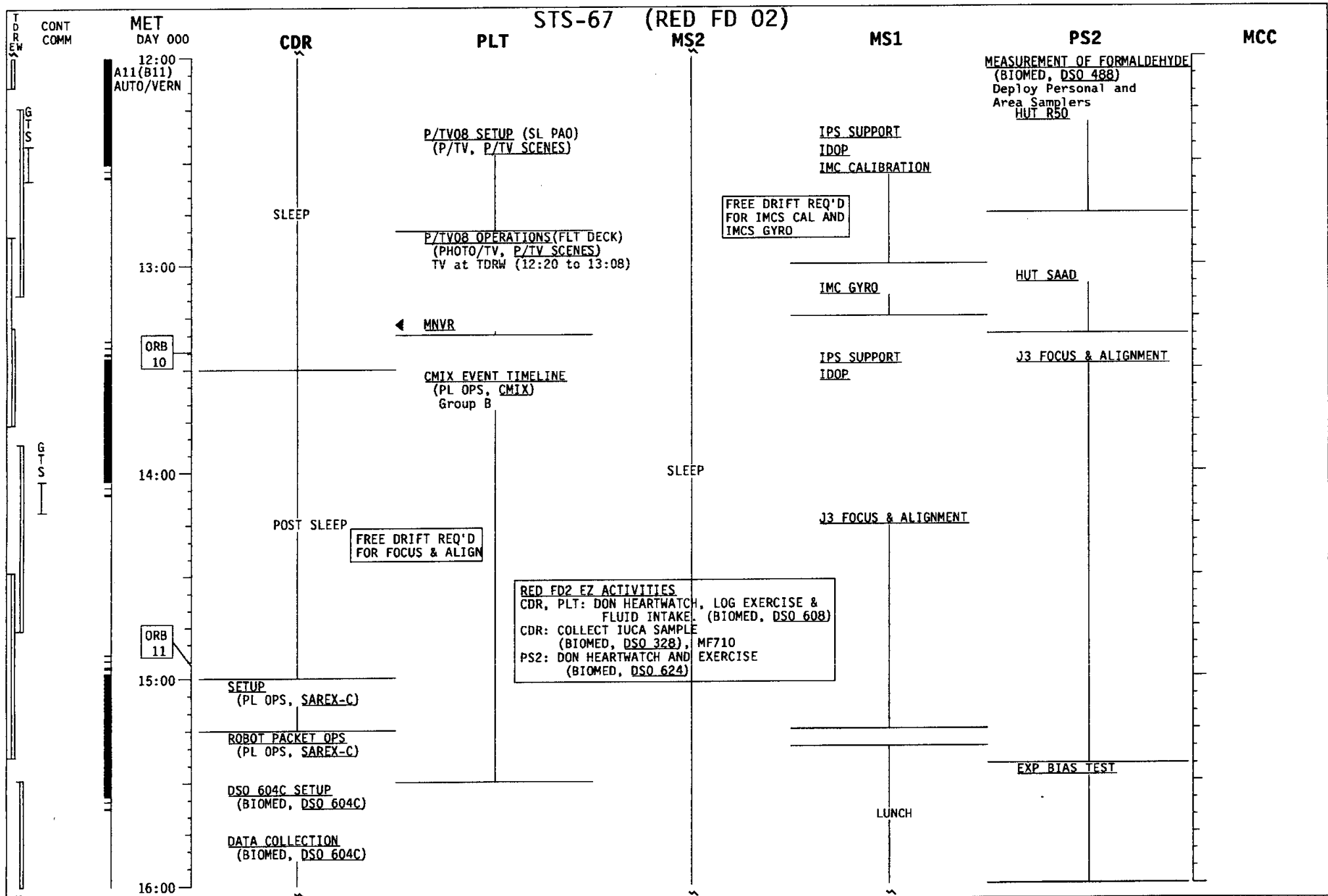
STS-67 (BLUE FD 01)  
 CDR                      PLT                      MS2                      MS3                      PS1                      MCC

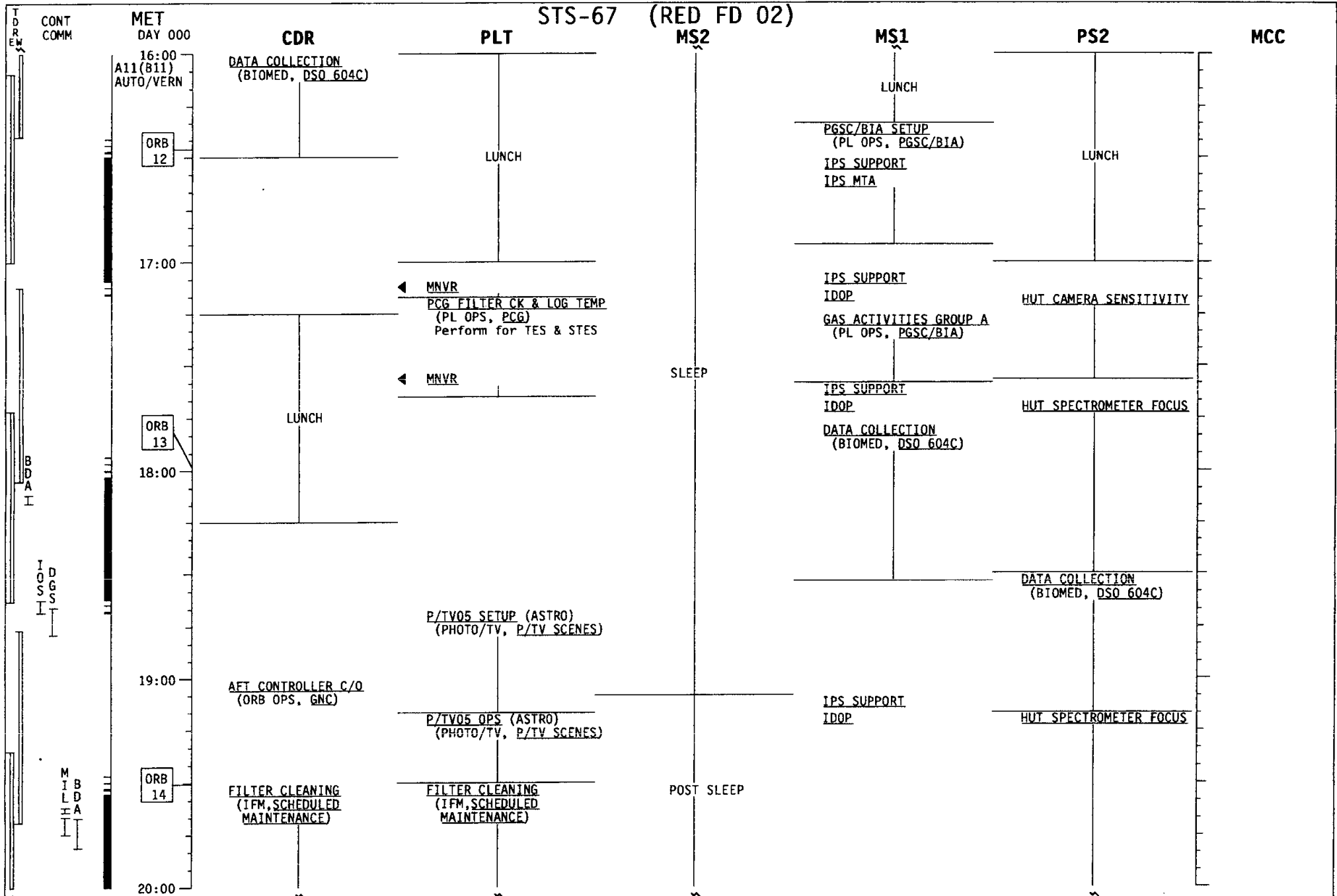
Activities prior to 0/02:10 MET are in the ASCENT & POST INSERTION checklists. Orbiter attitude when entering the FLIGHT PLAN is BIASED -ZLV -YVV.



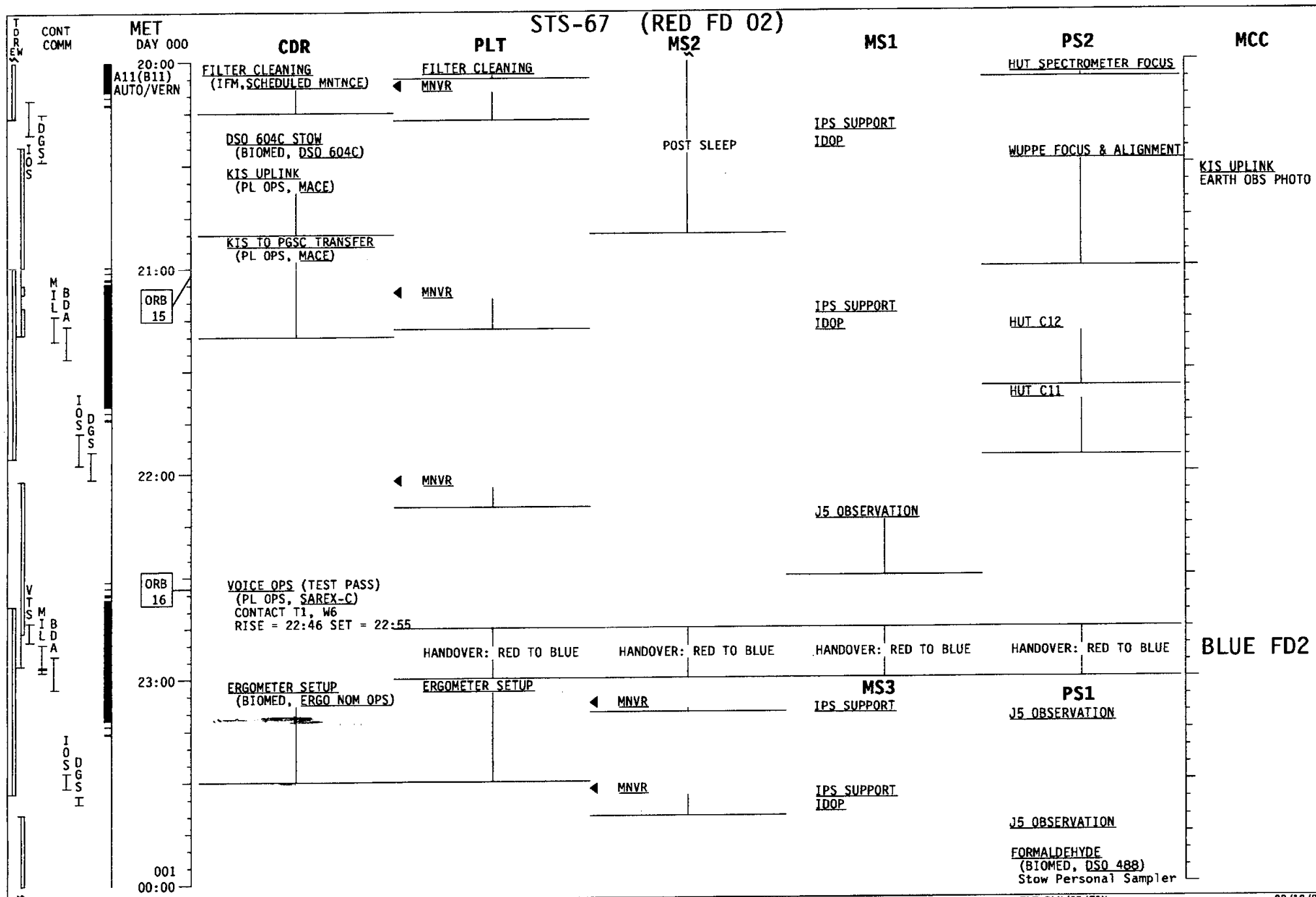




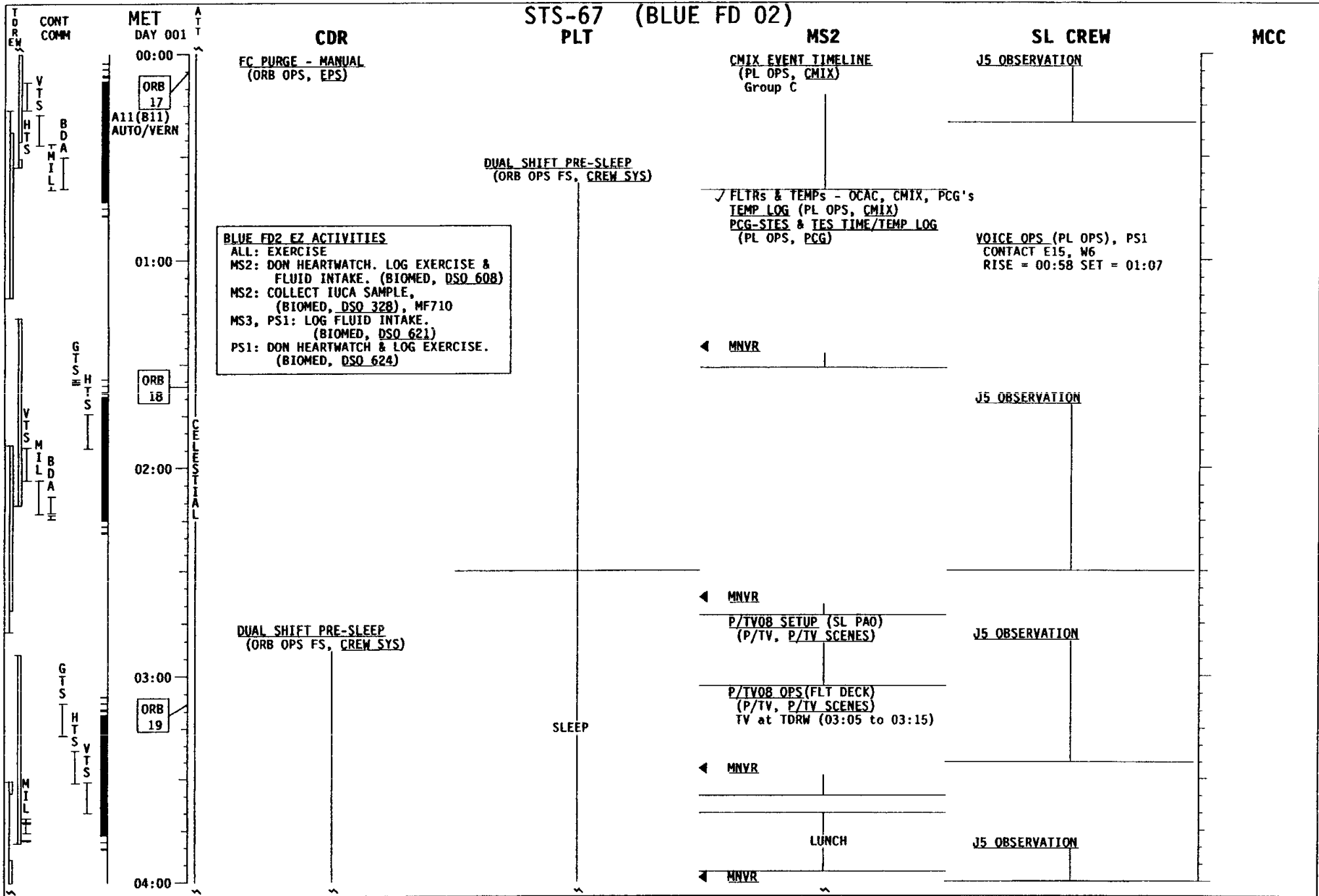


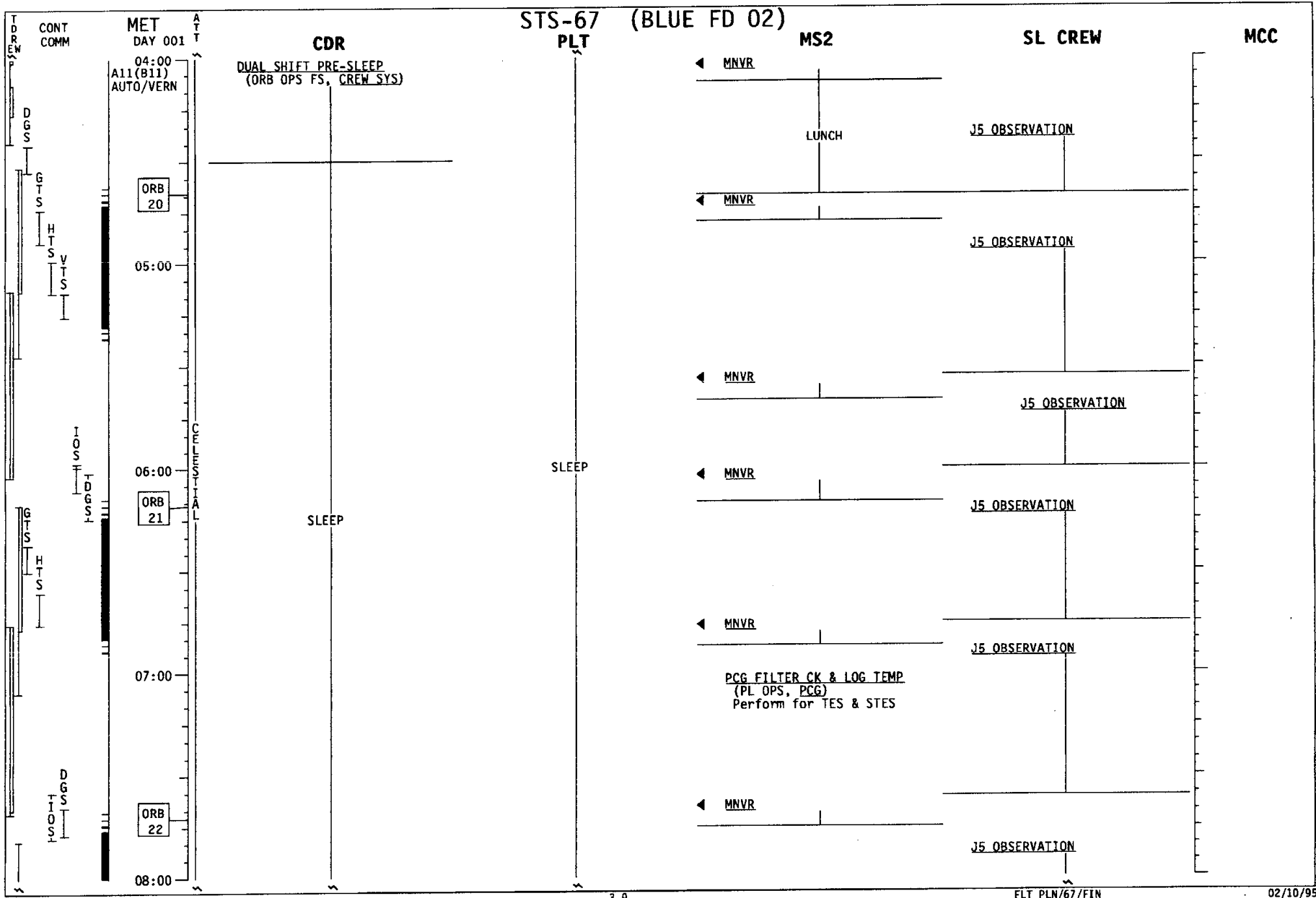


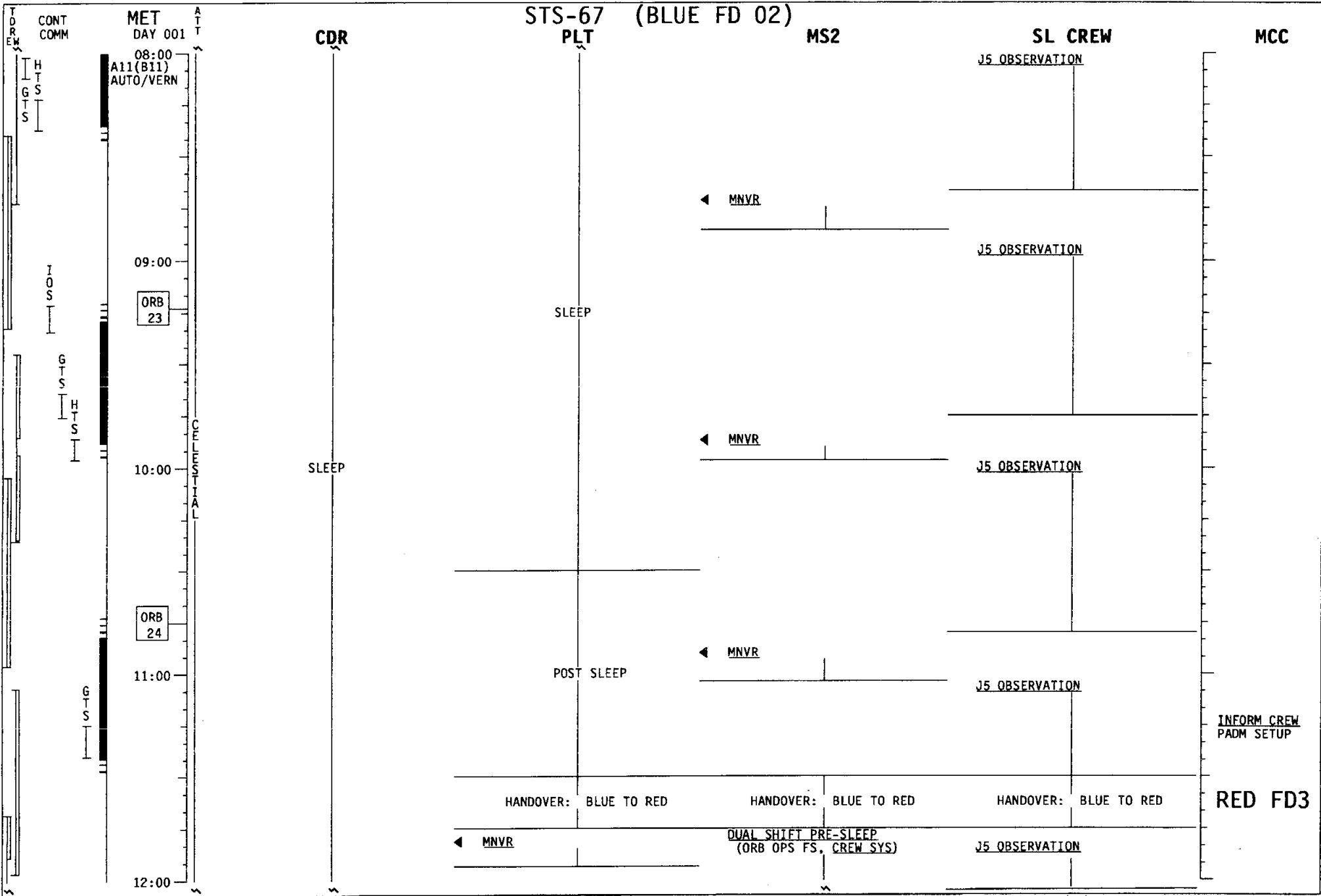
T D R E W  
 CONT COMM  
 MET DAY 000  
 A11(B11) AUTO/VERN  
 ORB 12  
 ORB 13  
 ORB 14  
 16:00  
 17:00  
 18:00  
 19:00  
 20:00  
 B D A I  
 I D G S S  
 M I B I D A

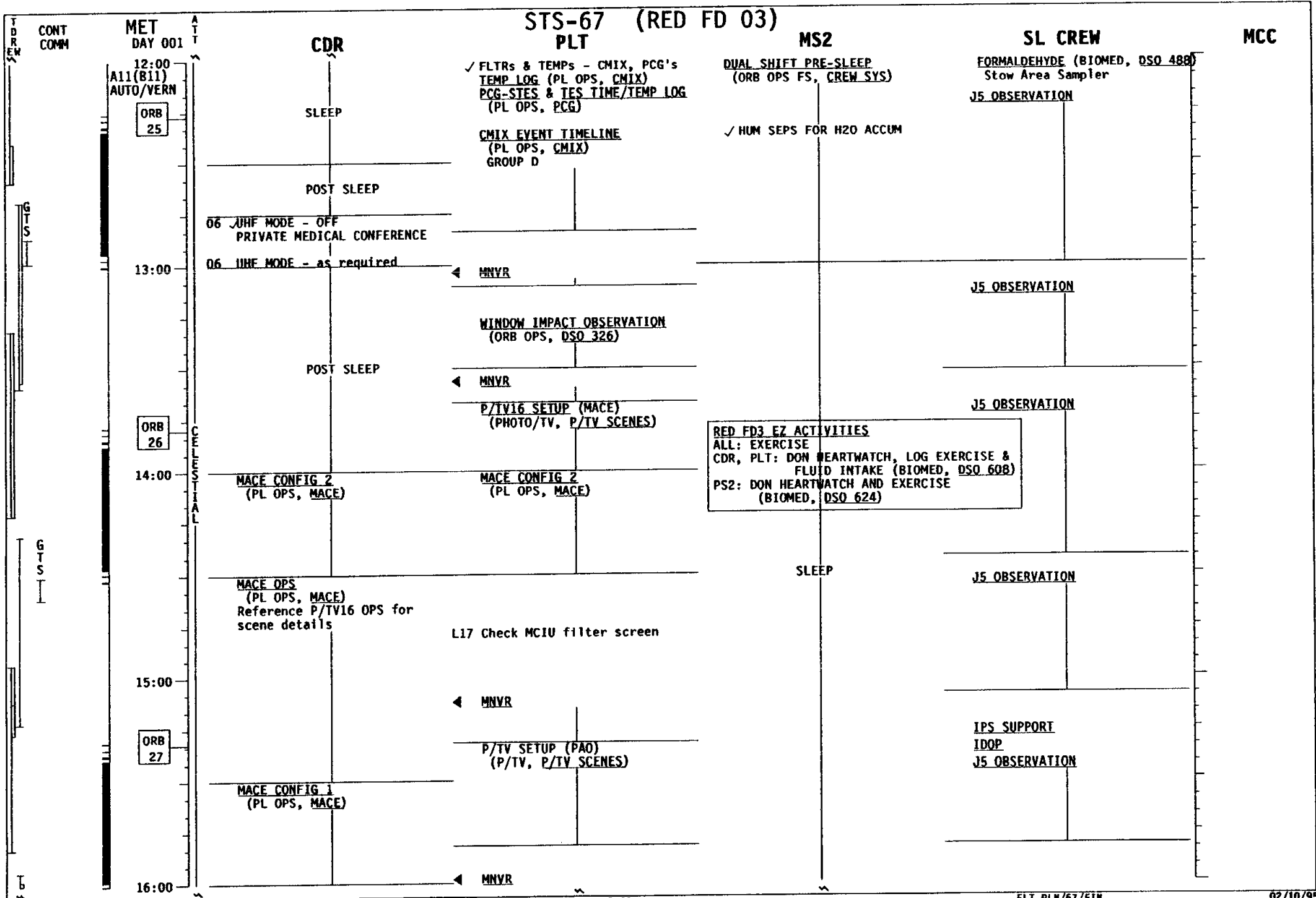


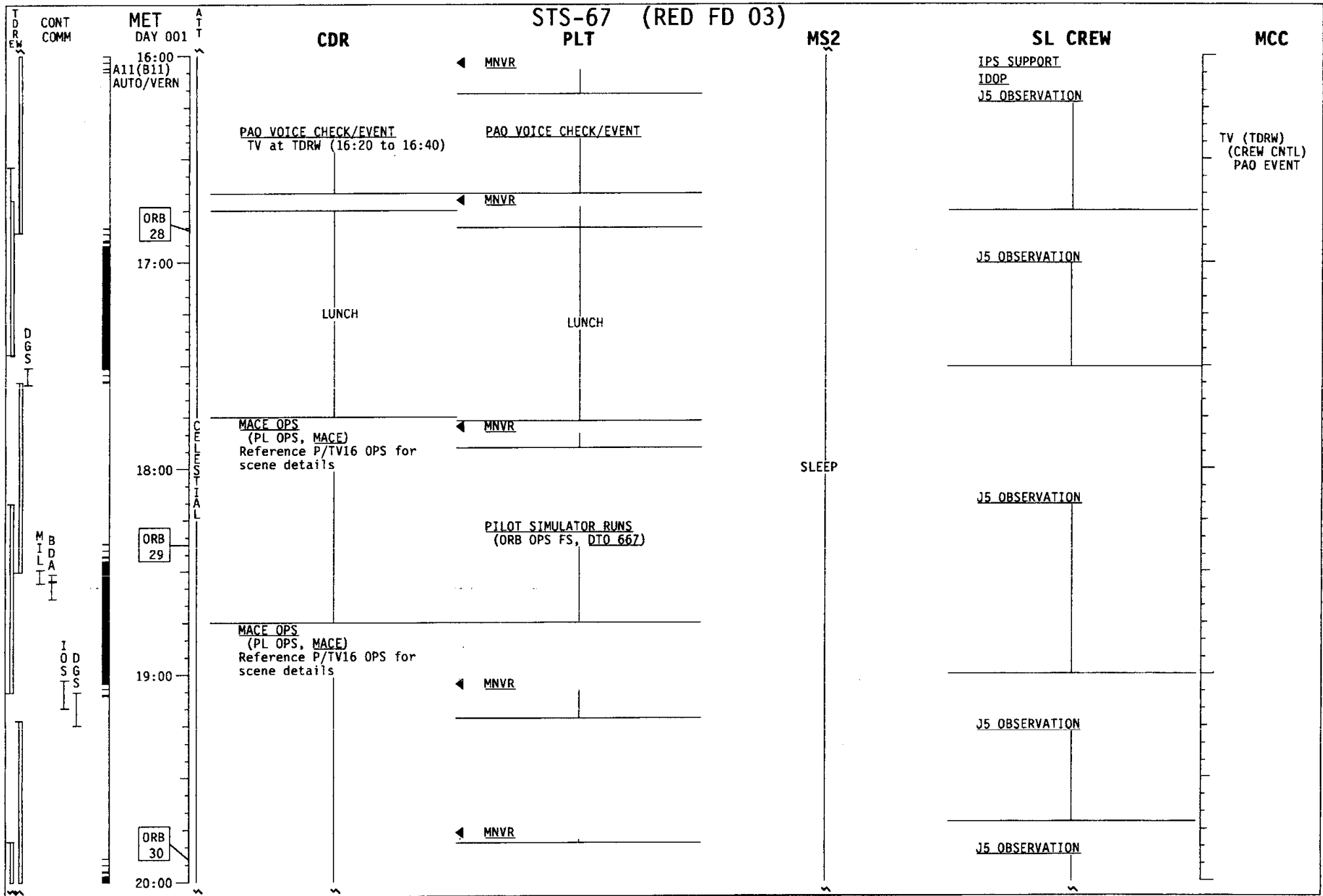


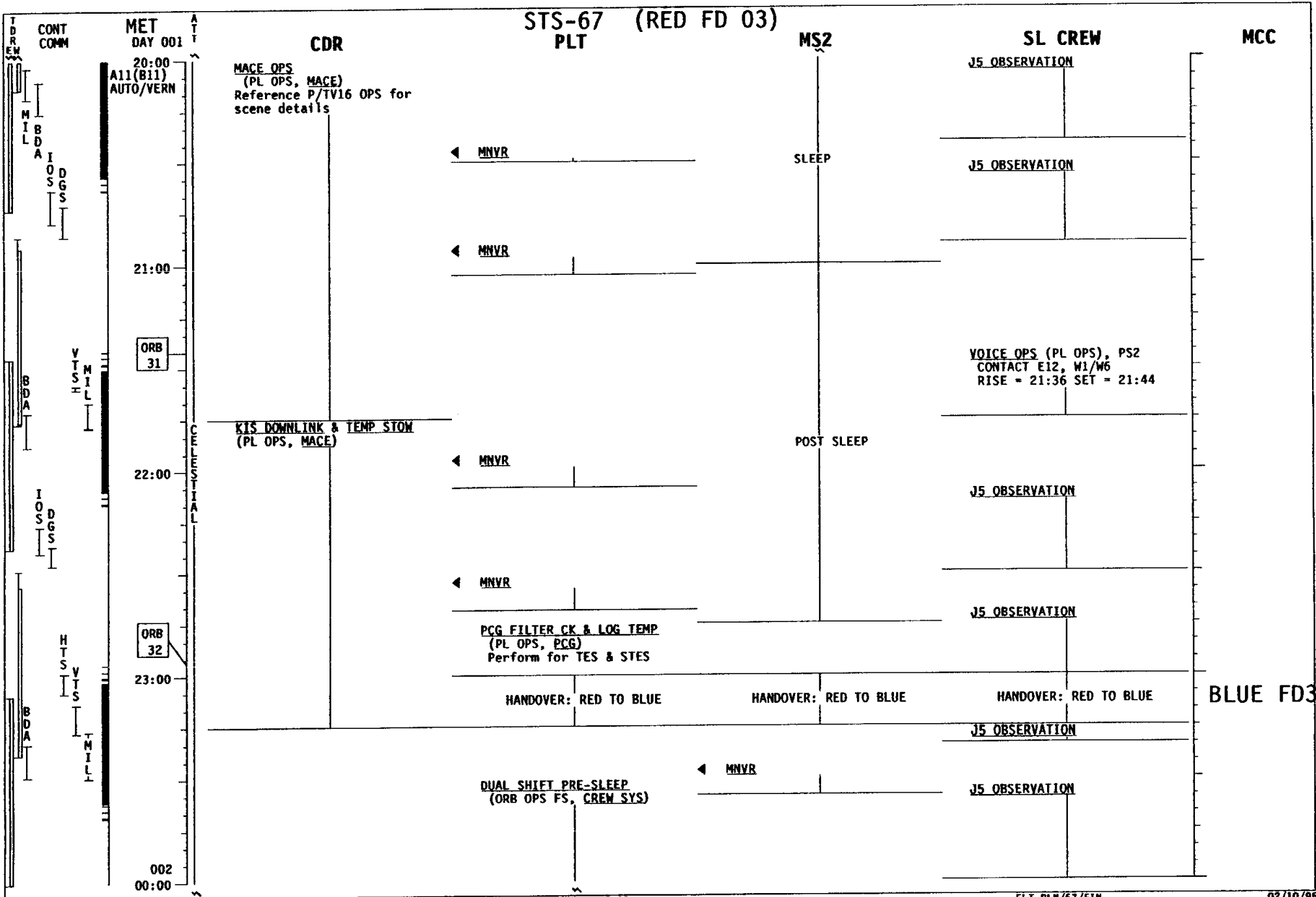












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**ATTITUDE TIMELINE**

**ATTITUDE  
TIMELINE**



Attitude Timeline

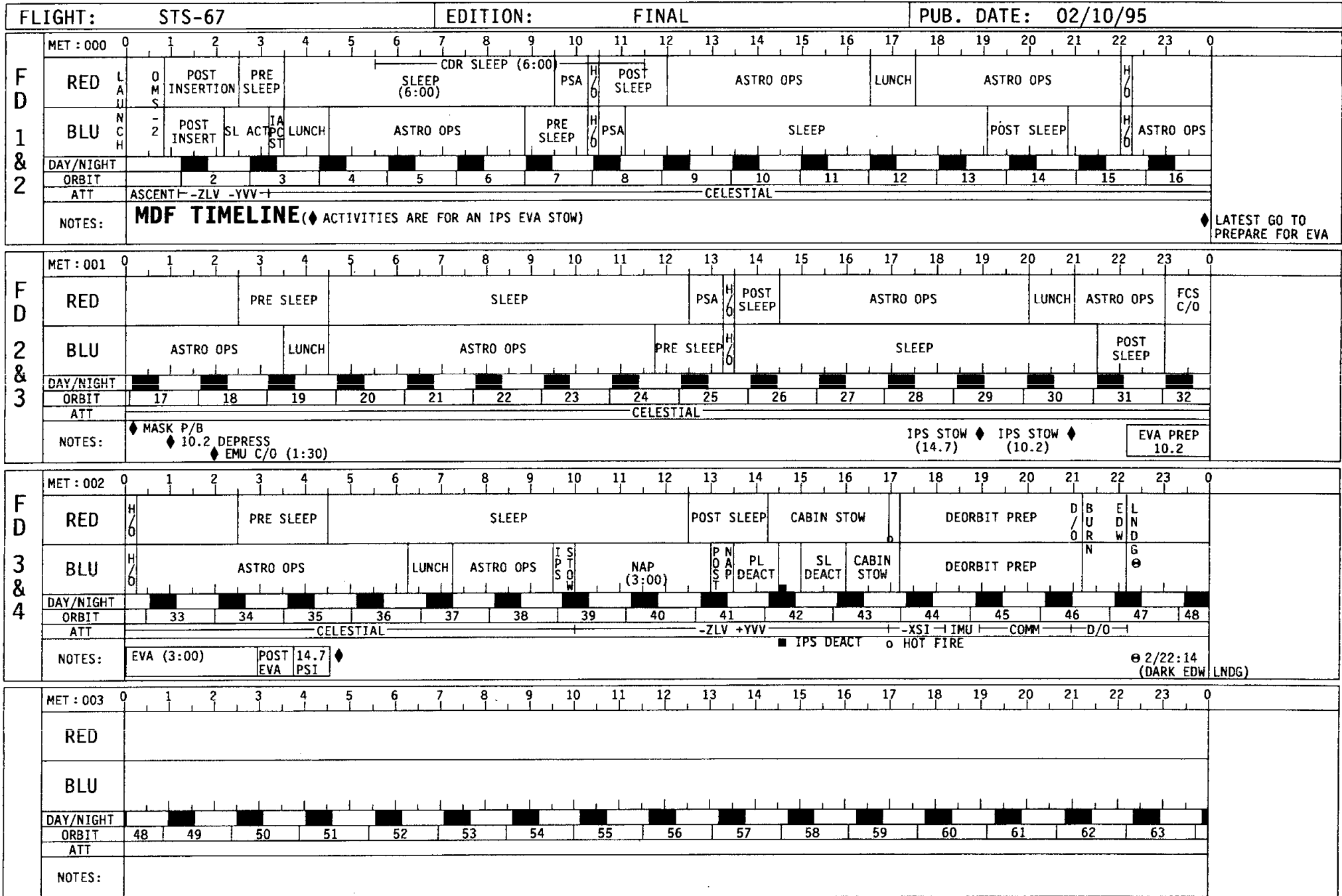
MET	MNVR OPTION	DAP	E/S	REF ATT/REMARKS	EVENT	
1 000/01:12:00 MET 23:56	TGT=2 BV=3 P= 90.00 Y= 0.00 OM= 78.00	A1 AUTO PRI	RATE 0.2000 DB AT 5.00 DB RT 0.20	EARTH R 360 P 90	LVLH R= 0.00 P=180.00 Y=282.00	Bias -ZLV -YVV PLBD Opening
2 000/04:30:00 MET 41:59	INRTL R=187.00 MNVR P=144.00 Y= 39.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 336 P 136		IPS-PINT
3 000/05:36:00 MET 47:05	INRTL R=120.00 MNVR P=230.00 Y=310.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 191 P 103		IPS-OSPC
4 000/06:45:00 MET 48:12	INRTL R=113.00 MNVR P=225.00 Y=348.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 209 P 133		IPT/IDPT
5 000/08:15:00 MET 27:04	INRTL R= 64.00 MNVR P= 77.00 Y=357.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 134 P 69		IDPT/SSUB
6 000/09:09:00 MET 18:36	INRTL R=179.00 MNVR P= 32.00 Y= 21.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 58 P 45		J3 F&A 1
7 000/13:17:00 MET 22:03	INRTL R=126.00 MNVR P= 85.00 Y= 74.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 71 P 103		J3 F&A 2
8 000/17:03:00 MET 06:14	INRTL R=248.00 MNVR P=335.00 Y= 63.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 53 P 84		HUT-CAM
9 000/17:32:00 MET 38:49	INRTL R= 59.00 MNVR P=146.00 Y= 37.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 104 P 138		HUT-SF
10 000/20:04:00 MET 18:12	INRTL R= 22.00 MNVR P=353.00 Y= 14.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 273 P 34		WUP-F&A
11 000/21:05:00 MET 17:03	INRTL R=319.00 MNVR P=167.00 Y= 46.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	SUN R 168 P 146		HUT-CAL
12 000/22:00:00 MET 08:03	TGT=2 BV=3 P= 90.00 Y= 0.00 OM=160.00	A11 AUTO VERN	RATE 0.2000 DB AT 2.000 DB RT 0.020	EARTH R 0 P 90	LVLH R=180.00 P= 0.00 Y=340.00	BR-EARTH

\*\*\* ALL ATTITUDES IN MEAN OF 1950 \*\*\*  
 \*\*\* PYR EULER SEQUENCE \*\*\*

ATTITUDE  
TIMELINE

**MDF SUMMARY TIMELINE**

# MDF SUMMARY TIMELINE



**The sections following this divider page will not be included in flight copies.**

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**STS-67 DAP BOOK**

I-LOADED GENERIC DAP A CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
<b>PRI</b>									
ROT RATE	10	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.2000
ATT DB	11	5.00	1.00	1.00	3.00	5.00	5.00	2.00	2.00
RATE DB	12	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
COMP	14	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.05
<b>ALT</b>									
RATE DB	18	0.200	0.200	0.200	0.200	0.070	0.070	0.200	0.200
JET OPT	19	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
# JETS	20	2	2	2	2	1	1	2	2
ON TIME	21	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	23	0.2000	0.4000	0.0080	0.2000	0.2000	0.2000	0.2000	0.2000
ATT DB	24	1.000	1.000	0.070	1.000	1.000	1.000	1.000	1.000
RATE DB	25	.020	.020	.010	.020	.020	.020	.020	.020
ROT PLS	26	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
COMP	27	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG	PRE/ POST DEPLOY	LOSS OF VERN (N & T)	LOSS OF VERN (TAIL ONLY)	RNDZ	PROX OPS

**I-LOADED GENERIC DAP B CONFIGURATIONS**

	ITEM #	B1	B2	B3	B4	B5	B6	B7	B8
<b>PRI</b>									
ROT RATE	30	0.5000	0.2000	0.2000	0.2000	0.2000	0.5000	0.5000	0.2000
ATT DB	31	3.00	3.00	3.00	0.30	3.00	3.00	2.00	2.00
RATE DB	32	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	33	0.04	0.04	0.04	0.04	0.40	0.04	0.04	0.04
COMP	34	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	35	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
Y OPTION	36	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
TRAN PLS	37	0.10	0.02	0.02	0.02	0.02	0.02	0.05	0.01
<b>ALT</b>									
RATE DB	38	0.200	0.070	0.070	0.200	0.200	0.200	0.200	0.200
JET OPT	39	ALL	TAIL	ALL	ALL	ALL	ALL	ALL	ALL
# JETS	40	2	1	1	2	2	2	2	2
ON TIME	41	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	43	0.2000	0.2000	0.2000	0.0080	0.0160	0.2000	0.2000	0.2000
ATT DB	44	1.000	1.000	1.000	0.100	0.033	1.000	1.000	1.000
RATE DB	45	.020	.020	.020	.010	.020	.020	.020	.020
ROT PLS	46	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
COMP	47	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL OMS & RCS BURNS	LOSS OF VERN (TAIL ONLY)	LOSS OF VERN (N & T)	SSUS DEPLOY	COAS CAL		RNDZ	PROX OPS



STS-67 DAP A CONFIGURATIONS

	ITEM #	A11
<b>PRI</b>		
ROT RATE	10	0.2000
ATT DB	11	<b>4.00</b>
RATE DB	12	0.20
ROT PLS	13	0.10
COMP	14	.000
P OPTION	15	ALL
Y OPTION	16	ALL
TRAN PLS	17	0.10
<b>ALT</b>		
RATE DB	18	<b>0.070</b>
JET OPT	19	<b>*TAIL,ALL</b>
# JETS	20	<b>1</b>
ON TIME	21	0.08
DELAY	22	.00
<b>VERN</b>		
ROT RATE	23	0.2000
ATT DB	24	<b>2.000</b>
RATE DB	25	0.020
ROT PLS	26	0.010
COMP	27	.000
CNTL ACC	28	0
PURPOSE		ASTRO OPS (NOMINAL & ALT ATT HOLD)

Note: **BOLD/ITALICS** = not I-Loaded  
 \*TAIL, only during crew sleep; ALL, when both crews awake

STS-67 DAP B CONFIGURATIONS

	ITEM #	B11
<b>PRI</b>		
ROT RATE	30	<b>0.2000</b>
ATT DB	31	<b>4.00</b>
RATE DB	32	0.20
ROT PLS	33	0.04
COMP	34	.000
P OPTION	35	ALL
Y OPTION	36	ALL
TRAN PLS	37	0.10
<b>ALT</b>		
RATE DB	38	<b>0.070</b>
JET OPT	39	<b>*TAIL,ALL</b>
# JETS	40	<b>1</b>
ON TIME	41	0.08
DELAY	42	<b>2.00</b>
<b>VERN</b>		
ROT RATE	43	0.2000
ATT DB	44	1.000
RATE DB	45	.020
ROT PLS	46	0.002
COMP	47	.000
CNTL ACC	48	0
PURPOSE		ASTRO OPS (ALT MNVRS)

Note: **BOLD/ITALICS** = not I-Loaded  
 \*TAIL, only during crew sleep; ALL, when both crews awake



<u>DAP</u>	<u>PURPOSE</u>	<u>DAP</u>	<u>PURPOSE</u>
A1	- NOMINAL	B1	- NOMINAL; OMS & RCS BURNS
A2	- PTC	B2	- LOSS OF VERN (TAIL ONLY)
A3	- GG	B3	- LOSS OF VERN (NOSE & TAIL)
A4	- PRE/POST DEPLOY		GG MNVR
A5	- LOSS OF VERN (NOSE AND TAIL)	B4	- SSUS DEPLOY
A6	- LOSS OF VERN (TAIL ONLY)	B5	- COAS CAL
A7	- RENDEZVOUS	B6	- (blank)
A8	- PROX OPS	B7	- RENDEZVOUS
A11	- ASTRO OPS (NOMINAL & ALT ATT HOLD)	B8	- PROX OPS
		B11	- ASTRO OPS (ALT MNVR)

FLT PLN-1a/67/O/B



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FLT PLN-1b/67/O/A



(reduced copy)



**DAP A**

**DAP A1**

PURPOSE:  
NOMINAL

FLT PLN-2a/67/O/A

FLT PLN-2b/67/O/A

**A1**

**A1**

**DAP A2**

PURPOSE:  
PTC

**A1**

DAP A 0 1	1	PRI
0.2 0 0 0	10	ROT RATE
- 5.0 0	11	ATT DB
0.2 0	12	RATE DB
0.1 0	13	ROT PLS
.0 0 0	14	COMP
ALL	15	P OPTION
ALL	16	Y OPTION
0.1 0	17	TRAN PLS
		ALT
0.2 0 0	18	RATE DB
ALL	19	JET OPT
2	20	#JETS
0.0 8	21	ON TIME
0 0 0 0	22	DELAY
		VERN
0.2 0 0 0	23	ROT RATE
- 1.0 0 0	24	ATT DB
.0 2 0	25	RATE DB
0.0 1 0	26	ROT PLS
.0 0 0	27	COMP
0	28	CNTL ACC

FLT PLN-3a/67/O/A

FLT PLN-3b/67/O/A

**A2**

(reduced copy)



**A2**

**A2**

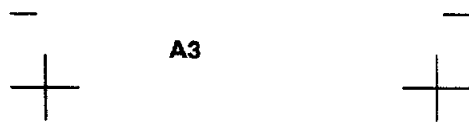
**DAP A3**

DAP A 0 2	1	PRI
0.4 0 0 0	10	ROT RATE
- 1.0 0	11	ATT DB
0.2 0	12	RATE DB
0.1 0	13	ROT PLS
0.0 0 0	14	COMP
ALL	15	P OPTION
ALL	16	Y OPTION
0.1 0	17	TRAN PLS
		ALT
0.2 0 0	18	RATE DB
ALL	19	JET OPT
2	20	#JETS
0.0 8	21	ON TIME
- 0.0 0	22	DELAY
		VERN
0.4 0 0 0	23	ROT RATE
- 1.0 0 0	24	ATT DB
0.2 0	25	RATE DB
0.0 1 0	26	ROT PLS
0.0 0	27	COMP
0	28	CNTL ACC

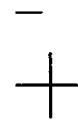
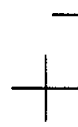
PURPOSE:  
GG

FLT PLN-4a/67/O/A

FLT PLN-4b/67/O/A



**A3**



**A3**



**A3**

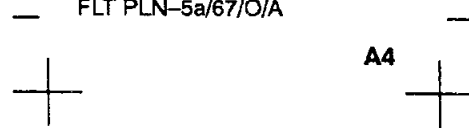
**DAP A4**

DAP A 0 3	1	PRI
0.2 0 0 0	10	ROT RATE
- 1.0 0	11	ATT DB
0.2 0	12	RATE DB
0.1 0	13	ROT PLS
0.0 0 0	14	COMP
ALL	15	P OPTION
TAIL	16	Y OPTION
0.1 0	17	TRAN PLS
		ALT
0.2 0 0	18	RATE DB
ALL	19	JET OPT
2	20	#JETS
- 0.0 8	21	ON TIME
0.0 0	22	DELAY
		VERN
0.0 0 8 0	23	ROT RATE
- 0.0 7 0	24	ATT DB
0.1 0	25	RATE DB
0.0 1 0	26	ROT PLS
0.0 0	27	COMP
0	28	CNTL ACC

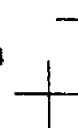
PURPOSE:  
PRE/POST DEPLOY

FLT PLN-5a/67/O/A

FLT PLN-5b/67/O/A



**A4**



(reduced copy)



**A4**

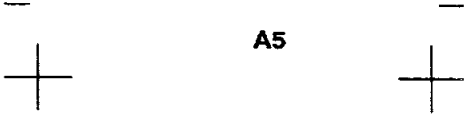
**A4  
DAP A5**

DAP A 0 4	1	PRI
0.5 0 0 0	10	ROT RATE
- 3.0 0	11	ATT DB
0.2 0	12	RATE DB
0.1 0	13	ROT PLS
.0 0 0	14	COMP
ALL	15	P OPTION
ALL	16	Y OPTION
0.1 0	17	TRAN PLS
		ALT
0.2 0 0	18	RATE DB
ALL	19	JET OPT
2	20	#JETS
0.0 8	21	ON TIME
- 0.0 0	22	DELAY
		VERN
0.2 0 0 0	23	ROT RATE
- 1.0 0 0	24	ATT DB
.0 2 0	25	RATE DB
0.0 1 0	26	ROT PLS
.0 0 0	27	COMP
0	28	CNTL ACC

PURPOSE:  
LOSS OF VERN  
(NOSE AND TAIL)

FLT PLN-6a/67/O/A

FLT PLN-6b/67/O/A



**A5**



**A5**

**A5**

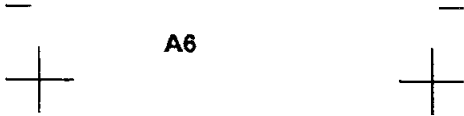
**DAP A6**

DAP A 0 5	1	PRI
0.2 0 0 0	10	ROT RATE
- 5.0 0	11	ATT DB
0.2 0	12	RATE DB
0.1 0	13	ROT PLS
.0 0 0	14	COMP
ALL	15	P OPTION
ALL	16	Y OPTION
0.1 0	17	TRAN PLS
		ALT
0.0 7 0	18	RATE DB
ALL	19	JET OPT
1	20	#JETS
0.0 8	21	ON TIME
- 0.0 0	22	DELAY
		VERN
0.2 0 0 0	23	ROT RATE
- 1.0 0 0	24	ATT DB
.0 2 0	25	RATE DB
0.0 1 0	26	ROT PLS
.0 0 0	27	COMP
0	28	CNTL ACC

PURPOSE:  
LOSS OF VERN  
(TAIL ONLY)

FLT PLN-7a/67/O/A

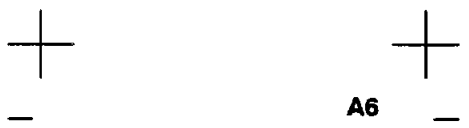
FLT PLN-7b/67/O/A



**A6**



(reduced copy)



**A6**

**DAP A7**

**A6**

DAP A 0 6	1	PRI
0.2 0 0 0	10	ROT RATE
- 5.0 0	11	ATT DB
0.2 0	12	RATE DB
0.1 0	13	ROT PLS
0.0 0	14	COMP
TAIL	15	P OPTION
TAIL	16	Y OPTION
0.1 0	17	TRAN PLS
		ALT
0.0 7 0	18	RATE DB
TAIL	19	JET OPT
1	20	#JETS
0.0 8	21	ON TIME
- 0.0 0	22	DELAY
		VERN
0.2 0 0 0	23	ROT RATE
- 1.0 0 0	24	ATT DB
0.2 0	25	RATE DB
0.0 1 0	26	ROT PLS
0.0 0	27	COMP
0	28	CNTL ACC

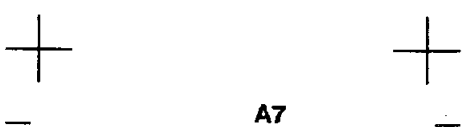
PURPOSE:  
RENDEZVOUS

FLT PLN-8a/67/O/A

FLT PLN-8b/67/O/A



**A7**



**A7**

**DAP A8**

**A7**

DAP A 0 7	1	PRI
0.2 0 0 0	10	ROT RATE
- 2.0 0	11	ATT DB
0.2 0	12	RATE DB
0.1 0	13	ROT PLS
0.0 0	14	COMP
ALL	15	P OPTION
ALL	16	Y OPTION
0.1 0	17	TRAN PLS
		ALT
0.2 0 0	18	RATE DB
ALL	19	JET OPT
2	20	#JETS
0.0 8	21	ON TIME
- 0.0 0	22	DELAY
		VERN
0.2 0 0 0	23	ROT RATE
- 1.0 0 0	24	ATT DB
0.2 0	25	RATE DB
0.0 1 0	26	ROT PLS
0.0 0	27	COMP
0	28	CNTL ACC

PURPOSE:  
PROX OPS

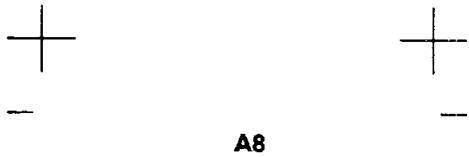
FLT PLN-9a/67/O/A

FLT PLN-9b/67/O/A



**A8**

(reduced copy)



**A8**

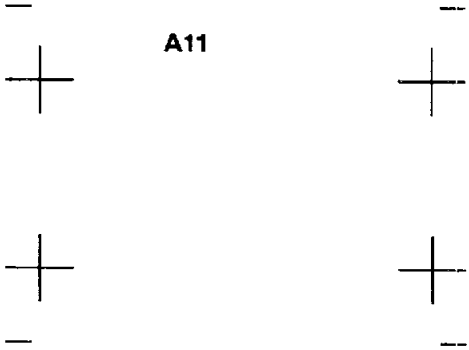
**DAP A11**

DAP A 0 8	1	PRI
0.2 0 0 0	10	ROT RATE
- 2.0 0	11	ATT DB
- 0.2 0	12	RATE DB
0.1 0	13	ROT PLS
.0 0 0	14	COMP
ALL	15	P OPTION
ALL	16	Y OPTION
0.0 5	17	TRAN PLS
		ALT
0.2 0 0	18	RATE DB
ALL	19	JET OPT
2	20	#JETS
0.0 8	21	ON TIME
- 0.0 0	22	DELAY
		VERN
0.2 0 0 0	23	ROT RATE
- 1.0 0 0	24	ATT DB
.0 2 0	25	RATE DB
0.0 1 0	26	ROT PLS
.0 0 0	27	COMP
0	28	CNTL ACC

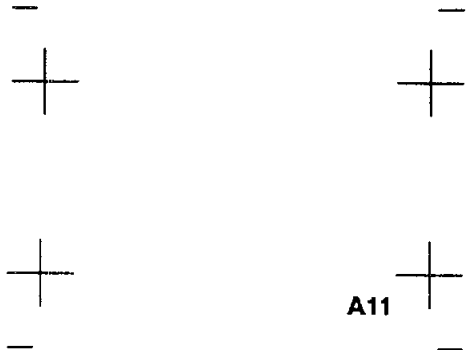
PURPOSE:  
 ASTRO OPS  
 (NOMINAL AND ALT ATT  
 HOLD)

FLT PLN-10a/67/O/A

FLT PLN-10b/67/O/B



**A11**



**A11**

DAP A 1 1	1/3	PRI
0.2 0 0 0	10/50	ROT RATE
- 4.0 0	11/51	ATT DB
- 0.2 0	12/52	RATE DB
0.1 0	13/53	ROT PLS
.0 0 0	14/54	COMP
ALL	15/55	P OPTION
ALL	16/56	Y OPTION
0.1 0	17/57	TRAN PLS
		ALT
0.0 7 0	18/58	RATE DB
TAIL,ALL	19/59	JET OPT
1	20/60	#JETS
0.0 8	21/61	ON TIME
- 0.0 0	22/62	DELAY
		VERN
0.2 0 0 0	23/63	ROT RATE
- 2.0 0 0	24/64	ATT DB
0.0 2 0	25/65	RATE DB
0.0 1 0	26/66	ROT PLS
.0 0 0	27/67	COMP
0	28/68	CNTL ACC

FLT PLN-11a/67/O/B

FLT PLN-11b/67/O/A



(reduced copy)



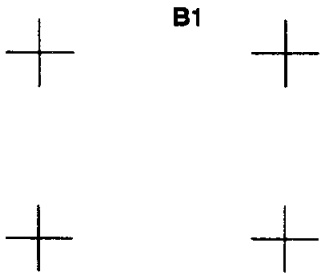
**DAP B**



**DAP B1**

PURPOSE:  
NOMINAL; OMS &  
RCS BURNS

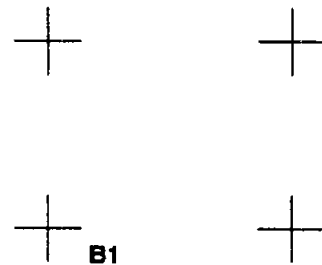
FLT PLN-12a/67/O/A



**B1**

2	DAP B 0 1
30	0.5 0 0 0
31	- 3.0 0
32	0.2 0
33	0.0 4
34	.0 0 0
35	ALL
36	ALL
37	0.1 0
38	0.2 0 0
39	ALL
40	2
41	0.0 8
42	- 0.0 0
43	0.2 0 0 0
44	- 1.0 0 0
45	.0 2 0
46	0.0 0 2
47	.0 0 0
48	0

FLT PLN-12b/67/O/A



**DAP B2**

PURPOSE:  
LOSS OF VERN  
(TAIL ONLY)

FLT PLN-13a/67/O/A

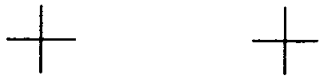


FLT PLN-13b/67/O/A



(reduced copy)

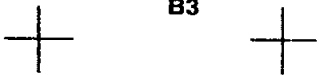




**B2**

2	DAP B 0 2
30	0.2 0 0 0
31	- 3.0 0
32	0.2 0
33	0.0 4
34	.0 0 0
35	TAIL
36	TAIL
37	0.0 2
38	0.0 7 0
39	TAIL
40	1
41	0.0 8
42	- 0.0 0
43	0.2 0 0 0
44	- 1.0 0 0
45	.0 2 0
46	0.0 0 2
47	.0 0 0
48	0

FLT PLN-14a/67/O/A



**B3**



**B3**

2	DAP B 0 3
30	0.2 0 0 0
31	- 3.0 0
32	0.2 0
33	0.0 4
34	.0 0 0
35	ALL
36	ALL
37	0.0 2
38	0.0 7 0
39	ALL
40	1
41	0.0 8
42	- 0.0 0
43	0.2 0 0 0
44	- 1.0 0 0
45	.0 2 0
46	0.0 0 2
47	.0 0 0
48	0

FLT PLN-15a/67/O/A



**B4**



**B2**

**DAP B3**

PURPOSE:  
LOSS OF VERN  
(NOSE & TAIL)

FLT PLN-14b/67/O/A



**B3**

**DAP B4**

PURPOSE:  
SSUS DEPLOY

FLT PLN-15b/67/O/A



(reduced copy)



**B4**

2 DAP B 0 4  
 30 0.2 0 0 0  
 31 - 0.3 0  
 32 0.2 0  
 33 0.0 4  
 34 .0 0 0  
 35 TAIL  
 36 TAIL  
 37 0.0 2  
  
 38 0.2 0 0  
 39 ALL  
 40 2  
 41 0.0 8  
 42 - 0.0 0  
  
 43 0.0 0 8 0  
 44 - 0.1 0 0  
 45 .0 1 0  
 46 0.0 0 2  
 47 .0 0 0  
 48 0

FLT PLN-16a/67/O/A



**B5**



**B5**

2 DAP B 0 5  
 30 0.2 0 0 0  
 31 - 3.0 0  
 32 0.2 0  
 33 0.4 0  
 34 .0 0 0  
 35 TAIL  
 36 TAIL  
 37 0.0 2  
  
 38 0.2 0 0  
 39 ALL  
 40 2  
 41 0.0 8  
 42 - 0.0 0  
  
 43 0.0 1 6 0  
 44 - 0.0 3 3  
 45 .0 2 0  
 46 0.0 0 2  
 47 .0 0 0  
 48 0

FLT PLN-17a/67/O/A



**B6**



**B4**

**DAP B5**

PURPOSE:  
COAS CAL

FLT PLN-16b/67/O/A



**B5**

**DAP B6**

PURPOSE:  
(blank)

FLT PLN-17b/67/O/A



(reduced copy)



**B6**

2	DAP B 0 6
30	0.5 0 0 0
31	- 3.0 0
32	0.2 0
33	0.0 4
34	.0 0 0
35	ALL
36	ALL
37	0.0 2
38	0.2 0 0
39	ALL
40	2
41	0.0 8
42	- 0.0 0
43	0.2 0 0 0
44	- 1.0 0 0
45	.0 2 0
46	0.0 0 2
47	.0 0 0
48	0

FLT PLN-18a/67/O/A



**B7**



**B7**

2	DAP B 0 7
30	0.5 0 0 0
31	- 2.0 0
32	0.2 0
33	0.0 4
34	.0 0 0
35	ALL
36	ALL
37	0.0 5
38	0.2 0 0
39	ALL
40	2
41	0.0 8
42	- 0.0 0
43	0.2 0 0 0
44	- 1.0 0 0
45	.0 2 0
46	0.0 0 2
47	.0 0 0
48	0

FLT PLN-19a/67/O/A



**B8**



**B6**

**DAP B7**

PURPOSE:

RENDEZVOUS

FLT PLN-18b/67/O/A



**B7**

**DAP B8**

PURPOSE:

PROX OPS

FLT PLN-19b/67/O/A



(reduced copy)



B8

2	DAP B 0 8
30	0.2 0 0 0
31	- 2.0 0
32	0.2 0
33	0.0 4
34	.0 0 0
35	ALL
36	ALL
37	0.0 1
38	0.2 0 0
39	ALL
40	2
41	0.0 8
42	- 0.0 0
43	0.2 0 0 0
44	- 1.0 0 0
45	.0 2 0
46	0.0 0 2
47	.0 0 0
48	0



B8

DAP B11

PURPOSE:

ASTRO OPS  
(ALT MNVRS)

FLT PLN-20a/67/O/A



B11



FLT PLN-20b/67/O/B



B11

B11

2/4	DAP B 1 1
30/50	0.2 0 0 0
31/51	- 4.0 0
32/52	0.2 0
33/53	0.0 4
34/54	.0 0 0
35/55	ALL
36/56	ALL
37/57	0.1 0
38/58	0.0 7 0
39/59	TAIL,ALL
40/60	1
41/61	0.0 8
42/62	- 2.0 0
43/63	0.2 0 0 0
44/64	- 1.0 0
45/65	.0 2 0
46/66	0.0 0 2
47/67	.0 0 0
48/68	0

FLT PLN-21a/67/O/B

FLT PLN-21b/67/O/A



(reduced copy)

UNIV PTG	
TGT ID	= 1 Orbiting Vehicle = 2 Earth ctr = 3 Earth tgt Input: LAT ( $\pm 90$ ) LON ( $\pm 180$ , + = East) ALT (-3444.0 to 20000.0 nm) = 4 Sun ctr = 5 Celestial tgt Input: RA (0-359.99) DEC ( $\pm 90$ ) = 11-110 Nav Stars
BODY VECT	= 1 +X* = 2 -X* = 3 -Z* = 4 -Y Star Tracker* = 5 Optional Input P (0-359.99) Y (270-359.99, 0-90) * input OM $\rightarrow$ OM (0-359.99)
MON AXIS	= 1 +X = 2 -X

FLT PLN-22/67/O/A

FLT PLN-22/67/O/A is mounted on the back of the DAP Book

**STS-67  
FLIGHT PLAN NOTES**

**FLIGHT PLAN NOTES  
(CONSTRAINTS AND GUIDELINES)**

**A. FLIGHT DESCRIPTION**

Orbiter: OV105/Endeavour  
 Inclination: 28.45 deg  
 Altitude: 190 x 191  
 Duration: 16 + 2

**B. MAJOR EVENTS**

<u>EVENT</u>	<u>MET</u>	<u>DATE</u>	<u>CDT</u>	<u>GMT</u>	<u>ORBIT</u>
Launch	0/00:00	3/2/95	00:37	06:36	--
OMS-2	0/00:51	3/2/95	01:28	07:28	--
Trim Burn 1	6/11:30	3/8/95	12:07	18:07	103
Trim Burn 2	9/11:30	3/11/95	12:07	18:07	150
D/O Burn	15:12:25	3/17/95	13:02	19:02	245
Landing	15:13:32	3/17/95	14:09	20:09	--

**C. LANDING OPPORTUNITIES:**

		<u>Landing Orbit</u>	<u>Site</u>	<u>Local Time</u>
		<u>No.</u>		
Nominal	Primary	246	KSC	15:09 EST
	1 Rev late	247	KSC	16:46 EST
1 Day Late	Primary	261	KSC	13:59 EST
	1 Rev late	262	KSC	15:35 EST
2 Days Late	Primary	277	KSC	14:25 EST
	1 Rev late	278	KSC	16:02 EST

**D. CREW**

CDR - Stephen Oswald  
 PLT - William Gregory  
 MS1 - John Grunsfeld  
 MS2 - Wendy Lawrence  
 MS3 - Tammy Jernigan  
 PS1 - Samuel Durrance  
 PS2 - Ronald Parise

**E. COMMUNICATIONS**

TDRS Support: East (41 degW), West (174 degW)  
 Contingency GSTDN: MIL(MLX), BDA(BDX), and DFR  
 Contingency RTS: HTS, GTS, VTS, IOS, and DGS  
 Emergency GSTDN: GDS(GDX), CAN and MAD

Lead time for site call-up: GSTDN - 2 hr, RTS - 4 hr

**FLT PLN  
NOTES**

## **F. WATER MANAGEMENT**

The preflight strategy is to utilize only the FES for overboard dumping of supply water. FES dumps will be real time calls. However, the reduced Freon flow through the radiators and the cold attitude profile may result in cold radiator panel temperatures and necessitate nozzle dumps in real time. Nozzle dumps require the ASTRO instrument doors to be closed and a +YVV attitude.

Waste water dumps are predicted to occur approximately every 60 hours. The preflight dump times are shown on the overview and summary timelines. The actual times will be coordinated with MSFC/ASTRO to minimize the impact to science and scheduled on the detailed pages in real time.

## **G. IMU ALIGNS**

IMU aligns are expected to occur every 24 hours with stars of opportunity and therefore, aligns are not scheduled in the Flight Plan. If required, specific IMU star pair attitudes are available.

## **H. CREW CIRCADIEN/LAUNCH/LANDING**

First flight to reverse the circadian cycles for red and blue team to meet the landing requirements of a long duration flight at low inclination. The launch window is 2:30. The first lit landing opportunity occurs on day 9 and 14 respectively for the opening and closing of the launch window. Trim burn placeholders are in the plan to account for orbital energy changes and to preserve the landing opportunities.

## **I. OFF DUTY/EXERCISE**

Off duty periods for the Spacelab crew are scheduled for FDs 7 and 11. One crewmember will be off-duty at a time in order to continue with ASTRO operations. The Flight Plan has shifted the additional work from the off-duty to the on-duty crewmember, but the crew will actually manage this as they see fit. Exercises will be listed in the daily EZ blocks. There are no ASTRO constraints on exercise.

## **J. PAYLOADS**

### **1. ASTRO-2**

ASTRO-2 will make ultraviolet observations of stars, galaxies, planets' magnetospheres, and quasars. ASTRO-2 consists of three experiments mounted to the Spacelab Instrument Pointing System (IPS) which is in turn mounted on two IGLOO pallets.

#### **MATERIAL SCIENCES EXPERIMENTS:**

- a. Hopkins Ultraviolet Telescope (HUT) – This ASTRO experiment is comprised of a telescope module containing optics and detector system within a shuttered environmental canister and an electronics module containing two experiment processors. The objective of the HUT is to obtain images of faint objects in the ultraviolet bands of 900 to 1200 Å. These images will be used to investigate interstellar medium.**



- b. Wisconsin Ultraviolet Photo-Polarimeter Experiment (WUPPE) – This ASTRO experiment is composed of a telescope and a spectropolarimeter. The purpose of the WUPPE is to obtain spectropolarimetric and spectrophotometric observations of astronomical objects such as hot stars, galactic nuclei, and quasars in the range of 1400 to 3200 Å.
    - c. Ultraviolet Imaging Telescope (UIT) – The UIT is a 38cm f/9 Ritchey-Cretien telescope which is contained in a thermally controlled, vacuum sealed container. The objective of this ASTRO telescope is to obtain images of faint objects in broad ultraviolet bands in the wavelength range of 1250 to 2800 Å. These images will be used to investigate the present stellar content and history of star formation in galaxies, the nature of spiral structure, and nonthermal sources in galaxies.
2. MIDDECK ACTIVE CONTROL EXPERIMENT (MACE) – MACE is third in a series of low-cost middeck experiments designed to measure and control the dynamics of complex systems in the microgravity environment of space. The purpose is to develop a well verified set of Control Structure Integration/Controlled Structures Technology (CSI/CST) methods and approaches that will allow designers of future CST spacecraft, which cannot be dynamically tested on the ground in a sufficiently realistic zero-gravity simulation, to have confidence in the eventual orbital performance of such spacecraft. MACE is scheduled in the Flight Plan for six 8-hr sessions.
3. PROTEIN CRYSTAL GROWTH – THERMAL ENCLOSURE SYSTEM (PCG-TES) – The PCG-TES payload is designed to conduct experiments which will supply information on the scientific methods and dynamics of large high quality protein crystals in microgravity. The payload will be installed and operated in the Orbiter middeck. The Block 1 configuration will be flown which contains four Vapor Diffusion Apparatus (VDA) Trays.
4. PROTEIN CRYSTAL GROWTH – SINGLE LOCKER THERMAL ENCLOSURE SYSTEM (PCG-STES) – The PCG-STES payload is designed to conduct experiments which will supply information on the scientific methods and dynamics of large high quality protein crystals in microgravity. The payload will be installed and operated in the Orbiter middeck. The Block 2 configuration will be flown which contains six Protein Crystallization Apparatus for Microgravity (PCAM) units.
5. COMMERCIAL MATERIALS DISPERSION APPARATUS INSTRUMENTS TECHNOLOGY ASSOCIATES EXPERIMENTS (CMIX) – CMIX is a collection of experiments housed within a Commercial Refrigerator Incubator Module (CRIM), replacing a middeck locker. The CRIM contains four Materials Dispersion Apparatus (MDA) minilab units designed to mix a variety of fluids and/or fluids and solids in the microgravity environment. In addition, the CMIX payload contains 10 Bioprocessing Modules (BPMs) designed to mix fluids to perform immune cell response experiments in microgravity. The objective is to collect data on scientific methods and commercial potential of biomedical and fluid science applications.
6. SHUTTLE AMATEUR RADIO EXPERIMENT – II (SAREX-II) – SAREX-II is a flight deck payload capable of two-way communication with amateur radio stations in the Line of Sight (LOS) of the Orbiter. An antenna is mounted in either Window 1 or 6. Configuration C is capable of operating in a Robot mode and Voice mode. Twenty-six schools and seven personal contacts are planned.

7. GAS 387 and GAS 388 – The G-387/G-388 experiment is by the Australian Space Office and AUSPACE Limited. The scientific objectives are to make ultraviolet observations of deep space (or nearby galaxies as an option). These observations will be made to study the structure of galactic supernova remnants, the distribution of hot gas in the Magellanic Clouds, the hot galactic halo emissions, and emission associated with galactic cooling flows and jets. The payload consists of two GAS canisters with an interconnect cable between them. Canister 1 contains a 10cm diameter mirror coaxial binocular telescope. Canister 2 contains two video recorders for data storage and the batteries to provide experiment power. Four observations will be planned in real time during the first 2 days.

#### K. ON-ORBIT DTOS

1. Portable In-flight Landing Operations Trainer (PILOT) (DTO 667) – This DTO consists of a laptop PC with landing software and a spare RHC (essentially a landing simulator). The DTO will attempt to verify that the simulator will assist the CDR and PLT in maintaining a high level of proficiency for approach and landing on EDO missions.
2. Global Positioning System Development Flight Test (DTO 700-8) – This DTO will demonstrate the performance and operation of the Global Positioning System (GPS) during orbiter ascent, entry, and landing phases. The GPS will estimate the position, velocity, measurement discrete and attitude data during ascent and entry phases. INCO will schedule this DTO in real time.
3. Orbiter Evaluation of TDRS Acquisition in Despreader Bypass Mode (DTO 700-9) – This DTO will evaluate the SSO S-band performance of TDRS S-band acquisition in the despreader bypass mode during the following time periods: (1) orbiter on the pad and (2) orbiter on orbit when in line-of-sight of MILA until loss of signal plus 10 min. Results of this Development Test Objective (DTO) will enable Mission Operations Directorate (MOD) to weigh risk versus benefit of this proposed procedure as an operational workaround to minimize S-band communications outage during powered flight phase with elimination of BDA GSTDN. INCO will schedule this DTO in real time.

#### L. ON-ORBIT DSOS

1. Window Impact Observations (DSO 326) – The objective of this DSO is to link window damages found during turnaround processing to a mission time, attitude, and altitude. The crewmembers will check the windows daily for new abrasions and will record their findings in a log. This data will aid significantly in the analysis of shuttle window impacts in the effort to identify the sources of these damages.
2. In-flight Urine Collection Absorber Evaluate (DSO 328) – This DSO will evaluate a new hardware device for urine sample collection which will significantly reduce sample leakage and stowage requirements. This device will also allow female participation in metabolic investigations requiring urine samples.
3. Measurement of Formaldehyde Using Passive Dosimetry (DSO 488) – The objective of this DSO is to collect data on levels of formaldehyde in the cabin air to establish baseline levels to evaluate potential risks to crewmembers' health and safety. Area samples will be collected in the middeck on an early, mid and late FD. In addition, personal samples will be collected from crewmembers for 12-hour intervals on an early, mid, and late FD.

4. **Orthostatic Function During Entry, Landing, and Egress (Config C) (DSO 603) –**  
The objective of this DSO is to measure the changes in orthostatic function of crewmembers during the actual stresses of entry, landing, and egress from the orbiter. Crewmembers will don and calibrate equipment prior to deorbit preparation. At LES donning, they will connect cables and power the equipment. Verbal comments will be recorded during entry, landing, and egress.
5. **Visual–Vestibular Integration as a Function of Adaptation OI–3C (DSO 604) –**  
The objective of this DSO is to investigate visual–vestibular and perceptual adaptive responses as a function of longer missions and to determine the operational impact on performance of entry, landing, and egress procedures.
6. **Effects of Space Flight on Aerobic and Anaerobic Metabolism During Exercise (DSO 608) –** Changes in energy metabolism, shifts in fuel utilization, and decreases in muscle mass after extended duration space flight may limit a crewmember's ability to do physical work, both in–flight and postflight. The crewmembers will keep a daily log of their fluid intake and be given prescribed exercise protocols.
7. **In–flight Use of Florinef to Improve Orthostatic Intolerance Postflight (DSO 621) –** The purpose of this DSO is to evaluate the efficacy of Florinef on postflight orthostatic tolerance using heart rate, blood pressure, stroke volume, and other cardiovascular responses to orthostatic stress. No active participation will be performed on–orbit for STS–67. All subjects will be control subjects only.
8. **Pre and Postflight Measurement of Cardiorespiratory Response to Submaximal Exercise (DSO 624) –** For this DSO the crewmembers will wear heart watches during exercise and log exercise to help evaluate the changes in aerobic capacity pre–, in–, and postflight. These evaluations will help develop optimal exercise protocols to prevent decrements in nominal cardiorespiratory response.
9. **Documentary Television (DSO 901) –** This DSO requires live television transmission or VTR dumps of crew activities and spacecraft functions which include: Payload Bay Views, STS and Payload Crew Activities, VTR Downlink of Crew activities, Inflight Crew Conference, and Unscheduled TV activities.
10. **Documentary Motion Picture Photography (DSO 902) –** This DSO requires documentary and public affairs motion picture photography of significant activities which best depict the basic capabilities of the space shuttle and key objectives. It includes motion picture photography of flight deck activities, middeck activities, and any unscheduled motion picture photography.
11. **Documentary Still Photography (DSO 903) –** This DSO requires still photography of crew activities in the orbiter, and mission–related scenes of general public and historical interest. Still photography with 70mm format for exterior photography and 30mm format for interior photography is required.

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