

# Flight Data File Crew Activity Plan

## STS 41-G

Mission Operations Directorate  
Operations Division

Final  
September 3, 1984

<u>EVENT:</u>	<u>CDT</u>		
Launch	06:00	Mon	Oct 1
ERBS Deploy	14:25	Mon	Oct 1
ORS EVA	10:30	Fri	Oct 5
Crew Press Conf	06:45	Mon	Oct 8
KSC Landing	11:20	Tue	Oct 9



National Aeronautics and  
Space Administration

**Lyndon B. Johnson Space Center**  
Houston, Texas

## MISSION OPERATIONS DIRECTORATE

## STS 41-G CREW ACTIVITY PLAN

FINAL  
September 3, 1984

PREPARED BY:



William R. Holzberg  
Book Manager

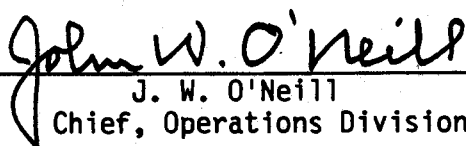
APPROVED BY:



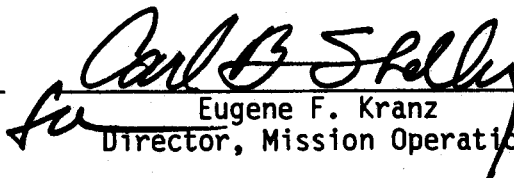
Robert H. Nute  
Head, Crew Activity Planning  
Section 1



Ted A. Guillory  
Chief, Flight Activity Branch



J. W. O'Neill  
Chief, Operations Division



Eugene F. Kranz  
Director, Mission Operations

This document is under the configuration control of the Crew Procedures Control Board (CPCB). All proposed changes must be submitted on standard JSC Form 482 to DH4/FDF Manager, Bldg 4, Rm 352, 713-483-2868.

Comments concerning this document may be addressed to DH4/ William R. Holzberg or DH4/Neil A. Woodbury, Bldg 4, Rm 337, 713-483-5871.

Changes to the distribution list should be submitted in writing to DH4/Gwen Butler, Bldg 4, Rm 373, 713-483-5224.

Incorporates	482		
No: CAP-209	CAP-214	CAP-226	
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CAP-211	CAP-216	FD-433	
CAP-212	CAP-217	CAP-229	
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### ACKNOWLEDGMENTS

The following individuals contributed significantly to preparing the 41-G Crew Activity Plan:

<u>AREA</u>	<u>NAME</u>	<u>PHONE NO.</u>
Nominal Timeline	Neil Woodbury	483-5871
	Steve Doering	483-3466
	Jerry Garegnani	483-5871
	Pam McCraw	483-3466
Attitude and Pointing	David Schurr	483-2201
Editing (Omniplan)	Mildred Cherry	483-3844
Word Processing (Omniplan)	B. Evans	483-3810
	D. Prange	
	J. Roberts	
	P. Romero	
	T. Walker	

STS 41-G CREW ACTIVITY PLAN

**LIST OF EFFECTIVE PAGES**

FINAL 09/03/84

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3-14.....	CAP/41-G/FIN		
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DAP A1.....	4-5	41-G/O/BAS
A1.....	4-5	41-G/O/BAS
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DAP A5.....	4-7	41-G/O/BAS
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Blank.....	4-9	41-G/O/BAS
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DAP B7.....	4-12	41-G/O/BAS
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## INTRODUCTION

The STS 41-G Crew Activity 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 entire flight is shown in the summary level timeline.

This on-orbit timeline satisfies the objectives specified in the Flight Definition and Requirements Directive and the requirements of the 41-G Flight Requirements Document.

This Crew Activity Plan incorporates the non-crewman specific format which will be evaluated on the STS 41-D flight.

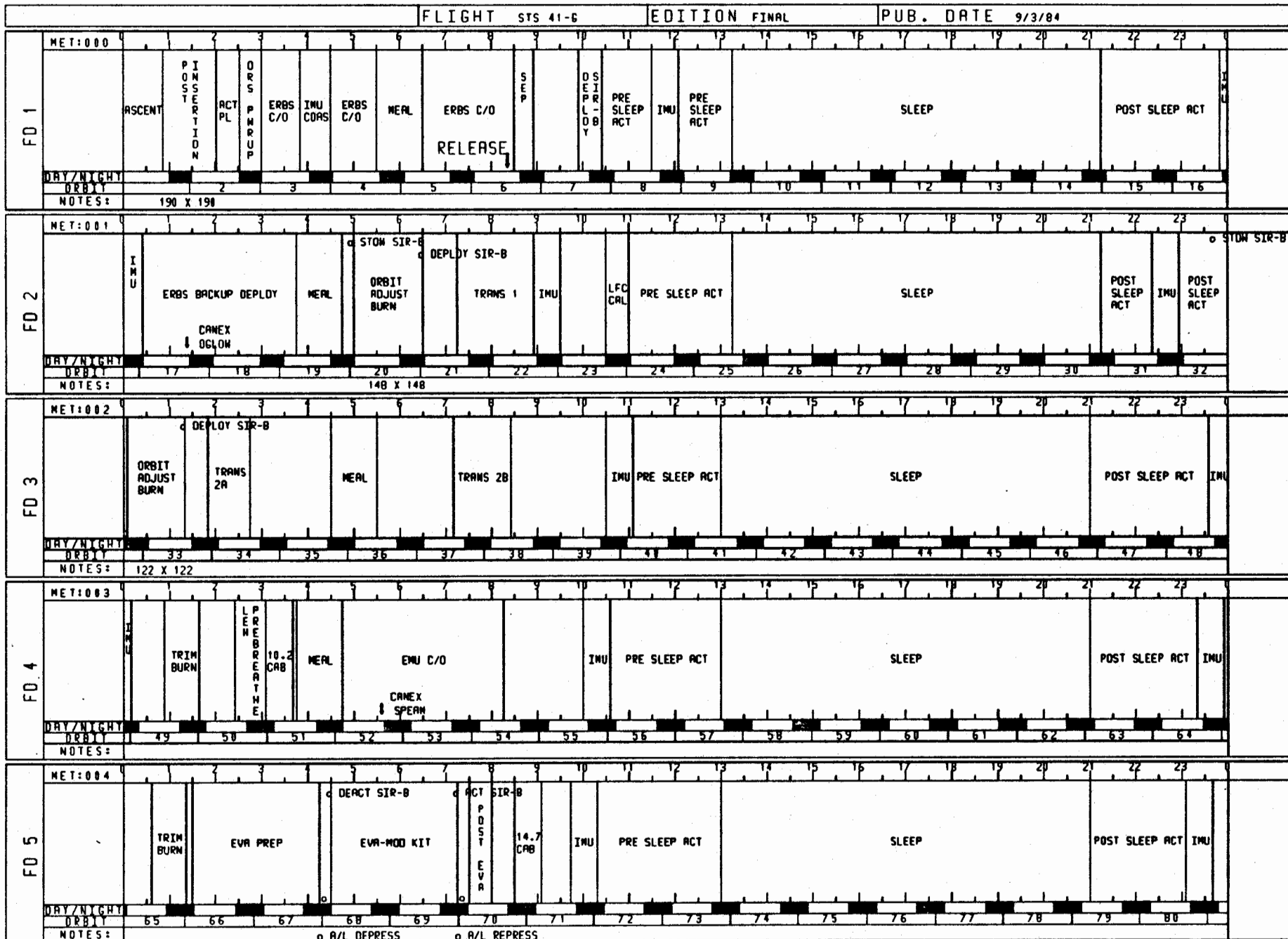
The timelines do not include attitude maneuvers, however an attitude line is shown on the timelines to indicate attitude changes. The detailed maneuver data are contained in the Attitude Timeline Section (Sec 5).

The flight profile (Cycle 3) used for this Crew Activity Plan is for a launch date of October 1, 1984, 11:00 GMT.



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41-G  
OVERVIEW



FD 6	MET:005	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		TRIM BURN	EMU MAINT	TRANS 3A		MEAL	TRANS 3B		IMU	PRE SLEEP ACT					SLEEP						POST SLEEP ACT		IMU	
	DAY/NIGHT																							
	ORBIT	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97						
NOTES:																								

FD 7	MET:006	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		TRIM BURN		TRANS 4A		MEAL	TRANS 4B & VENT		IMU	PRE SLEEP ACT				SLEEP							POST SLEEP ACT	IMU	POST SLEEP ACT	
	DAY/NIGHT																							
	ORBIT	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113						
NOTES:																								

FD 8	MET:007	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		POST S	CONFERENCE		FCS C/O	POST EVA ENT PREP	MEAL	NOT FR		CABIN STOW	PRE SLEEP ACT	IMU	PRE SLEEP ACT		SLEEP						POST SLEEP ACT	IMU	POST SLEEP ACT	
	DAY/NIGHT																							
	ORBIT	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129							
NOTES:																								

FD 9	MET:008	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		POST S	DEACT MAPS, FILE, LFC, ORS		DEORBIT PREP	E I		KSC LANDING 197:20																
	DAY/NIGHT																							
	ORBIT	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145							
NOTES:																								

FD 10	MET:009	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	DAY/NIGHT																							
	ORBIT	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161							
NOTES:																								

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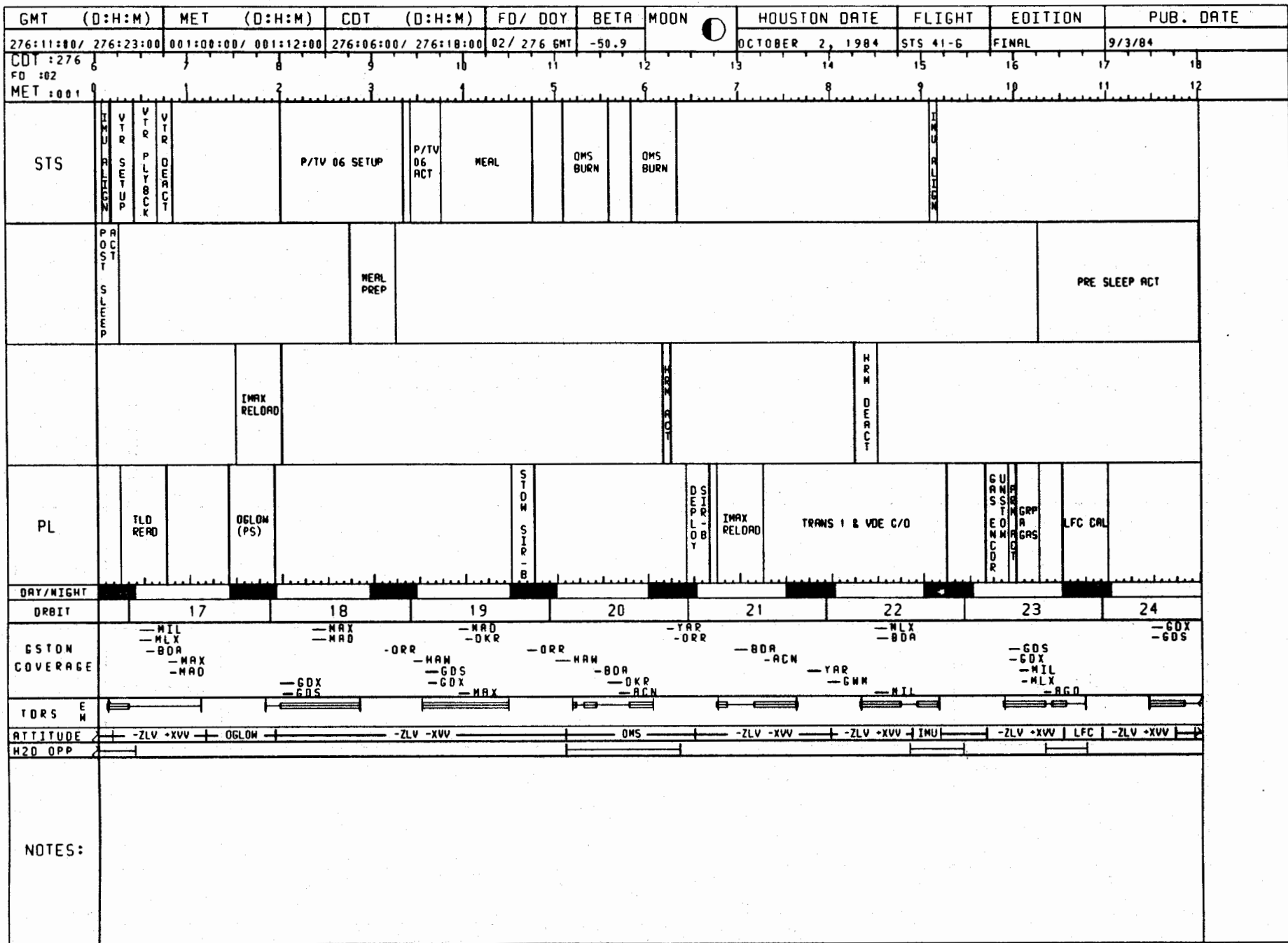
SUMMARY TIMELINE

# SUMMARY TIMELINE

GMT (D:H:M)	MET (O:H:M)	CDT (D:H:M)	FO/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
275:11:00 / 275:23:00	000:00:00 / 000:12:00	275:06:00 / 275:18:00	01 / 275 GMT	-53.6		OCTOBER 1, 1984	STS 41-G	FINAL	9/3/84	
CDT : 275 6										
FO : 01										
MET : 000 0										
STS	POST INSERTION	UNSTOW CABIN	CAMR ASSY	LAMP / SMOKE	MEAL PREP	AFT CNTR	MEAL	SEP	HYD COND	K180 DN
PL	PLB OVS	PLB OVS	PLB OVS	PLB OVS	PLB OVS	PLB OVS	PLB OVS	PLB OVS	PLB OVS	PLB OVS
DAY/NIGHT	ORBIT	GSTDN COVERAGE	TDRS E M	ATTITUDE	H2O OPP	<p>NOTES:</p> <ul style="list-style-type: none"> <li>● UNSTOW TLO</li> <li>○ APU HTR DEACT</li> <li>● ERBS MAOIR/TDRS</li> <li>○ IMAX ONLY</li> <li>● PLB ONLY</li> <li>○ IMAX ONLY</li> <li>○ UMBILICAL RELEASE</li> <li>○ APU HTR RECONFIG</li> <li>○ TRUNNION RELEASE</li> <li>● HYD THERMAL COND - ENA</li> </ul>				
ORBIT	GSTDN COVERAGE	TDRS E M	ATTITUDE	H2O OPP						

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
275:23:00 / 276:11:00	000:12:00 / 001:00:00	275:18:00 / 276:06:00	01 / 275 GMT	-52.3	☾	OCTOBER 1, 1984	STS 41-G	FINAL	9/3/84	
CDT : 275 FD : 01 MET : 000	18 19 00Y:276 13	20 21 14 15	22 23 16 17	18 19 20 21	22 23 24 25	26 27 28 29	30 31 02 03	04 05 06 07	08 09 10 11	
STS	SLEEP									
	PRE SLEEP ACT							POST SLEEP ACT		
PL										
DAY/NIGHT										
ORBIT	9	10	11	12	13	14	15	16		
GSTON COVERAGE	-GDS -6DX -AGO	-HAW	-HAW	-ACN	-GMM	-AGO	-DOR	-AGO -BDA -MAX -HAW	-MLX -NIL -BDA	-YAR
TORS										
ATTITUDE	-ZLV +XVV									
H2O OPP	-ZLV -XVV									
NOTES:										





GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
276:23:00/ 277:11:00	001:12:00/ 002:00:00	276:18:00/ 277:06:00	02/ 276 GMT	-49.3	○	OCTOBER 2, 1984	STS 41-G	FINAL	9/3/84	
CDT :276 FD :02 MET :001	18 19 13	20 21 14	22 23 15	24 25 16	26 27 17	28 29 18	30 31 19	32 33 20	34 35 21	
STS	SLEEP							PRE SLEEP ACT	POST SLEEP ACT	HC ORRG OUT
PL										
DAY/NIGHT										
ORBIT	24	25	26	27	28	29	30	31	32	
ESTDN COVERAGE										
TDPS E W										
ATTITUDE										
H2O OPP										
NOTES:	<p>o FC PURGE HTR ON        ■ MANUAL</p>									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
277:11:00 / 277:23:00	002:00:00 / 002:12:00	277:06:00 / 277:18:00	03 / 277 GMT	-47.6	☉	OCTOBER 3, 1984	STS 41-G	FINAL	9/3/84
CDT :277 FD :03 MET :002									
STS	OMS BURN	OMS BURN	P/TV 05 SETUP	P/TV 05 ACT	MEAL PREP	MEAL			
	PRE SLEEP							PRE SLEEP ACT	
	HCN REGRUPT						TAPE MEAS	ALIGN MARKS	GAP MEAS
PL	GRP B GAS	DS PER LOBY	TRANS 2A	DS PER LOBY	HRM DEACT	IMAX RELOAD		TRANS 2B	GRP C GAS
DAY/NIGHT									
ORBIT	32	33	34	35	36	37	38	39	40
GSTDN COVERAGE	-MIL -MLX -MAX -MAD	-MAX	-ORR -HAW -GDS -GDX -MAD	-DKR -ORR -HAW -GDS -GDX -MAD -MAX	-DKR -ORR -HAW -GDS -GDX -MAD -MAX	-ORR -HAW -GDS -GDX -MAD -MAX	-ORR -HAW -GDS -GDX -MAD -MAX	-ORR -HAW -GDS -GDX -MAD -MAX	-ORR -HAW -GDS -GDX -MAD -MAX
TDRS E W									
ATTITUDE	OMS	-ZLV +XVV			-ZLV -XVV		-ZLV -XVV	-ZLV +XVV	+YLV +XVV
H2O OPP									
NOTES:	FC PURGE MTR OFF								<ul style="list-style-type: none"> <li>● OTO 321 CREW COMPARTMENT STRUCTURE DEFLECTION</li> <li>● OTO 321 CREW COMPARTMENT STRUCTURE DEFLECTION</li> <li>● OTO 321 CREW COMPARTMENT STRUCTURE DEFLECTION</li> <li>● OTO 321 CREW COMPARTMENT STRUCTURE DEFLECTION</li> </ul>

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE			
277:23:00 / 278:11:00	002:12:00 / 003:00:00	277:18:00 / 278:06:00	03 / 277 GMT	-45.7	☉	OCTOBER 3, 1984	STS 41-G	FINAL	9/3/84			
CDT : 277 FD : 03 MET : 002	18 19 13	20 21 14	22 23 15	16	17	18	19	20	21	22	23	24
STS	SLEEP										PRE SLEEP ACT	POST SLEEP ACT
PL	[Blank]											
DRY/NIGHT	[Blank]											
ORBIT	41	42	43	44	45	46	47	48				
GSTDN COVERAGE	--HAN	--HAN	--RCM	--GMM	--AGO	--MAD	--MAX	--YAR	--MIL	--MLX	--BDR	
TORS	[Blank]											
ATTITUDE	-ZLV +XUV											
H2O OPP	-ZLV -XUV											
NOTES:	[Blank]											

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
278:11:00 / 278:23:00	003:00:00 / 003:12:00	278:06:00 / 278:18:00	04 / 278 GMT	-43.8	☉	OCTOBER 4, 1984	STS 41-G	FINAL	9/3/84
CDT : 278 6									
FD : 04									
MET : 003 0									

STS	RCS BURN	10.2 CABIN DEPRESS	EMU C/O	H2O DUMP & CHRG
-----	----------	--------------------	---------	-----------------

AP IRE LP LOCK	LEM PREBREATHE	MEAL	P/TV 07 SETUP	P/TV 07 ACT	PRE SLEEP ACT
-------------------------	----------------	------	---------------	-------------	---------------

RMS P RR R UP	M N V R R R S
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PL	TLO READ	MEAL PREP	S E R V I S	IMAX RELOAD	GR E G AS
----	----------	-----------	----------------------------	-------------	--------------------

DAY/NIGHT

ORBIT	49	50	51	52	53	54	55	56
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GSTON COVERAGE	-MIL -MLX -MAX -MAD	-MAX -MAD	-ORR -HAN -GDS -MAD	-DKR -ORR -HAN -BDA -DKR -ACN	-GWM -BDA -MIL -YAR -GWM	-BDA -YAR -GWM -MIL -MLX	-GDS -GDX -AGD	-GDS -GDX -AGD
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TORS E M	←	←	←	←	←	←	←	←
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ATTITUDE	TRIN	+YLV +XVV	-ZLV +XVV	SPEARM	B/-ZLV +XVV	-ZLV +XVV	+YLV +XVV	INU	-ZLV +XVV
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H2O OPP								
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NOTES:

• FREON LOOP 1 - ICH

• OSO 0303 EVALUATION OF OXY INTERACTION WITH MATERIALS

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FO/ ODY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
278:23:00 / 279:11:00	003:12:00 / 004:00:00	278:18:00 / 279:06:00	04 / 278 GMT	-41.8	☉	OCTOBER 4, 1984	STS 41-G	FINAL	9/3/84
CDT :278 18	19	20	21	22	23	0	1	2	3
FO :04	00Y:279					CDT:279	FO :05		
MET :003 12	13	14	15	16	17	18	19	20	21
									22
									23
									0
STS	SLEEP								18
	PRE SLEEP ACT							POST SLEEP ACT	
PL								HDRR TP CHNGOUT	
DAY/NIGHT	[Day/Night Cycle]								
ORBIT	57	58	59	60	61	62	63	64	
GSTDN COVERAGE	-HAM	-HAM	-ACN	-GWM	-AGO	-DKR	-MAD	-MAX	-YAR
TDRS E M	[TDRS Coverage]								
ATTITUDE	-ZLV +XVV								+YLV +XVV IMU
H2O OPP									
NOTES:									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DDY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
279:11:00 / 279:23:00	004:00:00 / 004:12:00	279:06:00 / 279:18:00	05 / 279 GMT	-39.8	○	OCTOBER 5, 1984	STS 41-G	FINAL	9/3/84
CDT : 279 FD : 05 MET : 004									
STS	RCS BURN	WIRE CHECK	EVA PREP	AD/EPRESS	EGRESS	EVA-MOD KIT	POST EVA	14.7 CABIN REPRESS	
	P/TV 08 SETUP	P/TV 08 ACT				EVA SUPPORT			PRE SLEEP ACT
				RMS	W/S DUMP		MNVR RMS		
PL	DRS SAFE					ORR S	ACT SIR-B	IMAX RELOAD	DRS JMBX
DAY/NIGHT	[Day/Night Cycle]								
ORBIT	65	66	67	68	69	70	71	72	
GSTON COVERAGE	-MIL -MLX -MAX -MAD	-MAX	-ORR -HAM -GDS	-BDA -DKR -ACN	-MLX	-YAR -GWN	-MIL -MLX	-AGO	-GDS -GDX -AGO
TDRS	[TDRS]	[TDRS]	[TDRS]	[TDRS]	[TDRS]	[TDRS]	[TDRS]	[TDRS]	[TDRS]
ATTITUDE	TRIM	-ZLV -XVV	-ZLV -XVV	EVA/TDRS	-ZLV -XVV	B/+YLV -XVV	IMU	-ZLV -XVV	
H2O OPP									
NOTES:	◊ DEACT SIR-B ◊ DSO 0303 EVALUATION OF OXY INTERACTION WITH MATERIALS ◊ FREON LOOP 1 - PL								

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE			
279:23:00 / 280:11:00	004:12:00 / 005:00:00	279:18:00 / 280:06:00	05 / 279 GMT	-37.7	○	OCTOBER 5, 1984	STS 41-G	FINAL	9/3/84			
CDT : 279 18	19	20	21	22	23	2	3	4	5	6		
FD : 05	001:280 13	14	15	16	17	18	19	20	21	22	23	24
MET : 004 12												
STS	SLEEP											
	PRE SLEEP ACT								POST SLEEP ACT			
PL								HORR TP CHNGOUT				
DAY/NIGHT	[Day/Night Cycle]											
ORBIT	73	74	75	76	77	78	79	80	81			
GSTON COVERAGE	-HAM	-HAM	-ACM -DKR	-GMM	-AGO -DKR	-MAX -GMM -ORR	-AGO -MAX -HRO	-ORR	-BDR	-YAR	-MIL -MLX -BDR	-MT
TORS	[Torque Diagram]											
ATTITUDE	-ZLV +XVV											
H2O OPP	[Water Opposition Diagram]											
NOTES:												



GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
280:11:00/ 280:23:00	005:00:00/ 005:12:00	280:06:00/ 280:18:00	06/ 280 GMT	-35.6	○	OCTOBER 6, 1984	STS 41-G	FINAL	9/3/84
CDT : 280 FD : 06 MET : 005									
STS	PMS P M R O N	RCS BURN	EMU MAINT/RECHARGE	MEAL PREP	ECLISS C/O	MEAL	P/TV 12 SETUP	P/TV 12 ACT	HRM D E A C T
			P/TV 09 SETUP	P/TV 09 ACT					PRE SLEEP ACT
PL	TLD READ		TRANS 3A	IMAX RELOAD	MAX ECLISS C/O		TRANS 3B	HRM D E A C T	
DAY/NIGHT	[Day/Night Cycle: 81 (Day), 82 (Night), 83 (Day), 84 (Night), 85 (Day), 86 (Night), 87 (Day), 88 (Night), 89 (Day)]								
ORBIT	81	82	83	84	85	86	87	88	89
GSTDN COVERAGE	-MAX -MAD	-GDS -GOX -MAX -MAD	-HAM -GDS -DKR	-ORR -HAM -BDA -DKR	-ACN -YAR -GWM	-GWM -MIL -MLX		-GDS -GDX -AGO	GDX -AGO
TORS E M			-ORR			-YAR			GDS
ATTITUDE	TRIM	B/YLV +XVV		-ZLV -XVV		-ZLV +XVV	-ZLV -XVV	-ZLV +XVV	B/YLV +XVV
H2O OPP								IMU	-ZLV +XVV
NOTES:									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE			
280:23:00 / 281:11:00	005:12:00 / 006:00:00	280:18:00 / 281:06:00	06 / 280 GMT	-33.4	○	OCTOBER 6, 1984	STS 41-G	FINAL	9/3/84			
CDT : 280 18	DOY: 281 19	20	21	22	23	2	FD : 07 3	4	5	6		
FD : 06	13	14	15	16	17	18	19	20	21	22	23	0
MET : 005 12												
STS	SLEEP											
	PRE SLEEP ACT									POST SLEEP ACT		
PL	<div style="display: flex; justify-content: space-between;"> <span>NC</span> <span>DR</span> <span>RG</span> <span>OU</span> <span>TU</span> <span>PT</span> </div>											
DAY/NIGHT												
ORBIT	89	90	91	92	93	94	95	96	97			
GSTON COVERAGE	-HAW	-HAW	-ACN -DKR	-GWM	-AGD -DKR	-ORR	-AGD -MAX -MAO	-ORR	-BDA	-YAR	-MIL -MLX -BDA	-HAW
TDRS												
ATTITUDE	-ZLV -XVV											
H2O OPP												
NOTES:												

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
281:11:00 / 281:23:00	006:00:00 / 006:12:00	281:06:00 / 281:18:00	07 / 281 GMT	-31.2	○	OCTOBER 7, 1984	STS 41-G	FINAL	9/3/84
CDT : 281 FD : 07 MET : 006									
STS	RCS BURN		MEAL PREP	MEAL	P/TV 15 SETUP	P/TV 15 ACT			
			P/TV 10 ACT					PRE SLEEP ACT	
		HDR TP CHNGOUT	CAMEX CONF						
PL		TRANS 4A	HRM DEACT	SPEARM PS	OGLOW (PS)	TRANS 4B & VENT			
DAY/NIGHT	[Day/Night Cycle Bar]								
ORBIT	97	98	99	100	101	102	103	104	105
GSTDN COVERAGE	-GDX -GDS	-HAD -MAX	-ORR -HAM	-BOR -DKR -ACN	-BDA -WLX -MIL	-YAR -GWN	-GDS -GOX -AGO	-AGO	-HAM
TORS E W	[TORS E W Bar]								
ATTITUDE	TRIM	-ZLV ·XVV	-ZLV ·XVV	TORS	SPEARM	-ZLV ·XVV	OGLOW	-ZLV ·XVV	B/·YLV ·XVV
H2O OPP	[H2O OPP Bar]								
NOTES:									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
281:23:00 / 282:11:00	006:12:00 / 007:00:00	281:18:00 / 282:06:00	07 / 281 GMT	-29.0	○	OCTOBER 7, 1984	STS 41-G	FINAL	9/3/84	
CDT : 281 FD : 07 MET : 006	18 19 13	20 21 14	22 23 15	17	18	19	20	21	22	
<p>STS</p> <p style="text-align: center;">SLEEP</p>										
PRE SLEEP ACT					POST SLEEP ACT					
PL										
<p style="text-align: right;">HDRR TR CHNGOUT</p>										
DAY/NIGHT										
ORBIT	105	106	107	108	109	110	111	112	113	
GSTDN COVERAGE	-HAM	-ACM -DKR	-GWH	-AGO -DKR -MAD	-MAX -ORR -AGO -MAX -MAD	-YAR -ORR	-BDA -YAR	-MIL -MLX -BDA	-GOS -MAX	-MAD
TORS										
ATTITUDE										
M20 OPP										
NOTES:										

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
202:11:00 / 202:23:00	007:00:00 / 007:12:00	202:06:00 / 202:18:00	08 / 202 GMT	-26.7	○	OCTOBER 8, 1984	STS 41-G	FINAL	9/3/84	
CDT : 202 FD : 08 MET : 007										
STS	PSE TTU VUP P 1 0	P/TV 10 ACT	CC REN FERENCE	FCS C/O	APU HTR ACT	RF CS RE HOT	LAMP /SMOKE	CABIN STOW		
	PR OCT S JUMP			MEAL PREP	POST EVA ENT PREP	MEAL			PRE SLEEP ACT	
	ST D W E N C D R									
PL	GRP K GAS	TLD READ						ST D W S I R - B		
DAY/NIGHT	[Day/Night Cycle: Day, Night, Day, Night, Day, Night, Day, Night, Day, Night]									
ORBIT	113	114	115	116	117	118	119	120	121	
STON COVERAGE	-GDX -GDS -HAD -MAX		-ORR	-BDA -DKR -ACN	-BDA -MIL	-YAR -GWH	-GDS -GDX -AGO		-AGO	-HAW
TDRS E W	[TDRS]	[DKR]	[ORR]	[MLX]	[GDS -MIL -MLX]	[TDRS]	[TDRS]	[TDRS]	[TDRS]	
ATTITUDE	TDRS	-ZLV -XVV		-ZLV +XVV	RCS	-ZLV +XVV	+YLV +XVV		-ZLV +XVV	
H2O OPP										
NOTES:	o APU HTR ACT									

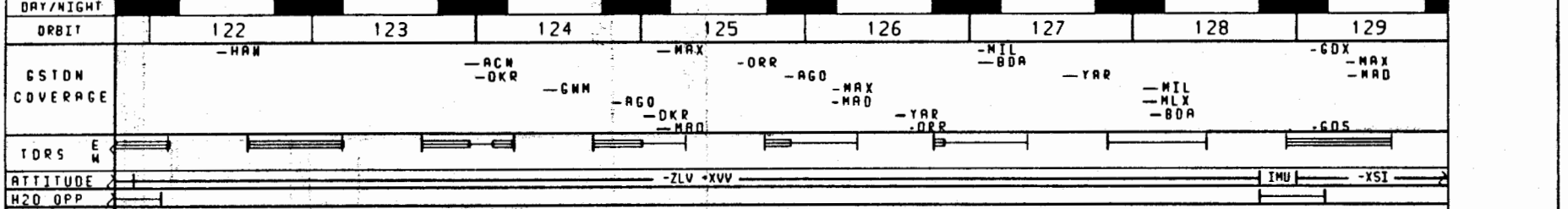
GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
282:23:00 / 283:11:00	007:12:00 / 008:00:00	282:18:00 / 283:06:00	08 / 282 GMT	-24.5	○	OCTOBER 8, 1984	STS 41-G	FINAL	9/3/84
CDT: 282 FD :08	DOY:283						FD : 09		
MET :007									

STS		SLEEP							
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	PRE SLEEP ACT							POST SLEEP ACT	
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PL									
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NOTES:

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
283:11:00 / 283:23:00	008:00:00 / 008:12:00	283:06:00 / 283:18:00	/ 283 GMT	-22.2	○	OCTOBER 9, 1984	STS 41-G	FINAL	9/3/84
TIG									
CDT : 283									
FD :									
MET : 008									
STS	CLEANNUP	DEORBIT PREP	RAD BYP	PLBD OPS	DEORBIT PREP				
	PRCST				DEORBIT BURN				
	SLEEP				LANDING KSC 8/05:20				
PL	DRS DEACT								
	LFC DEACT								
DAY/NIGHT									
ORBIT	130	131	132	133	134	135	136	137	
GSTON COVERAGE	-GDS -CDX -HMO -HAX		-ORR -BDA -DKR -ACN		-BDA -MIL -YAR -GWN	-GDS -CDX -AGD		-AGD	-HAM
TDRS E W		-ORR -HAM -DKR	-YAR -GWN	-MLX		-GDS -MIL -MLX			
ATTITUDE	-XSI	IMU	DEORBIT BURN						
H2O OPP									
NOTES:	♦ OSTR-3 DEACT   ♦ FES CNTLR CHECK ♦ HI LOAD HTR ON								

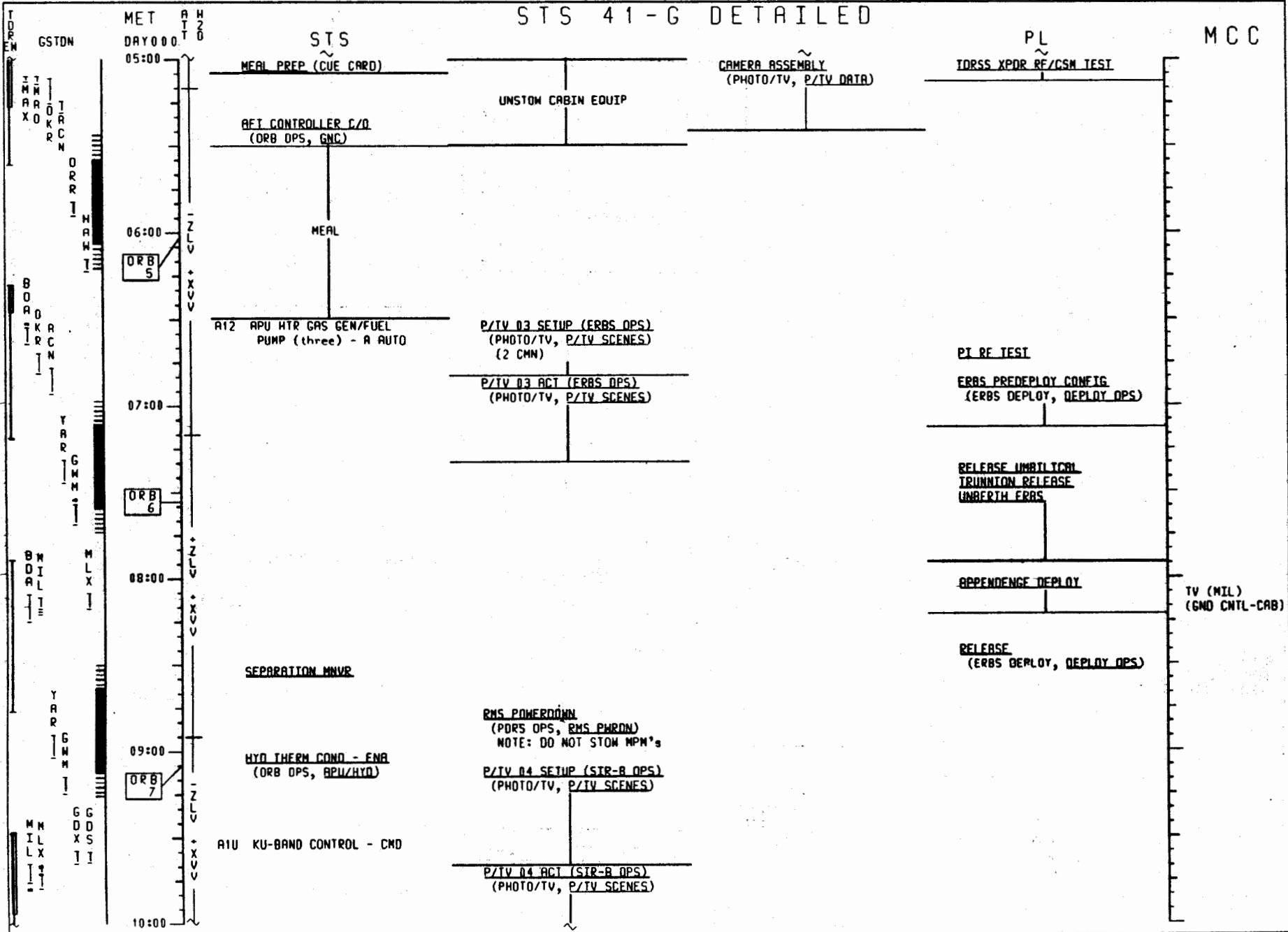
**DETAILED TIMELINE**

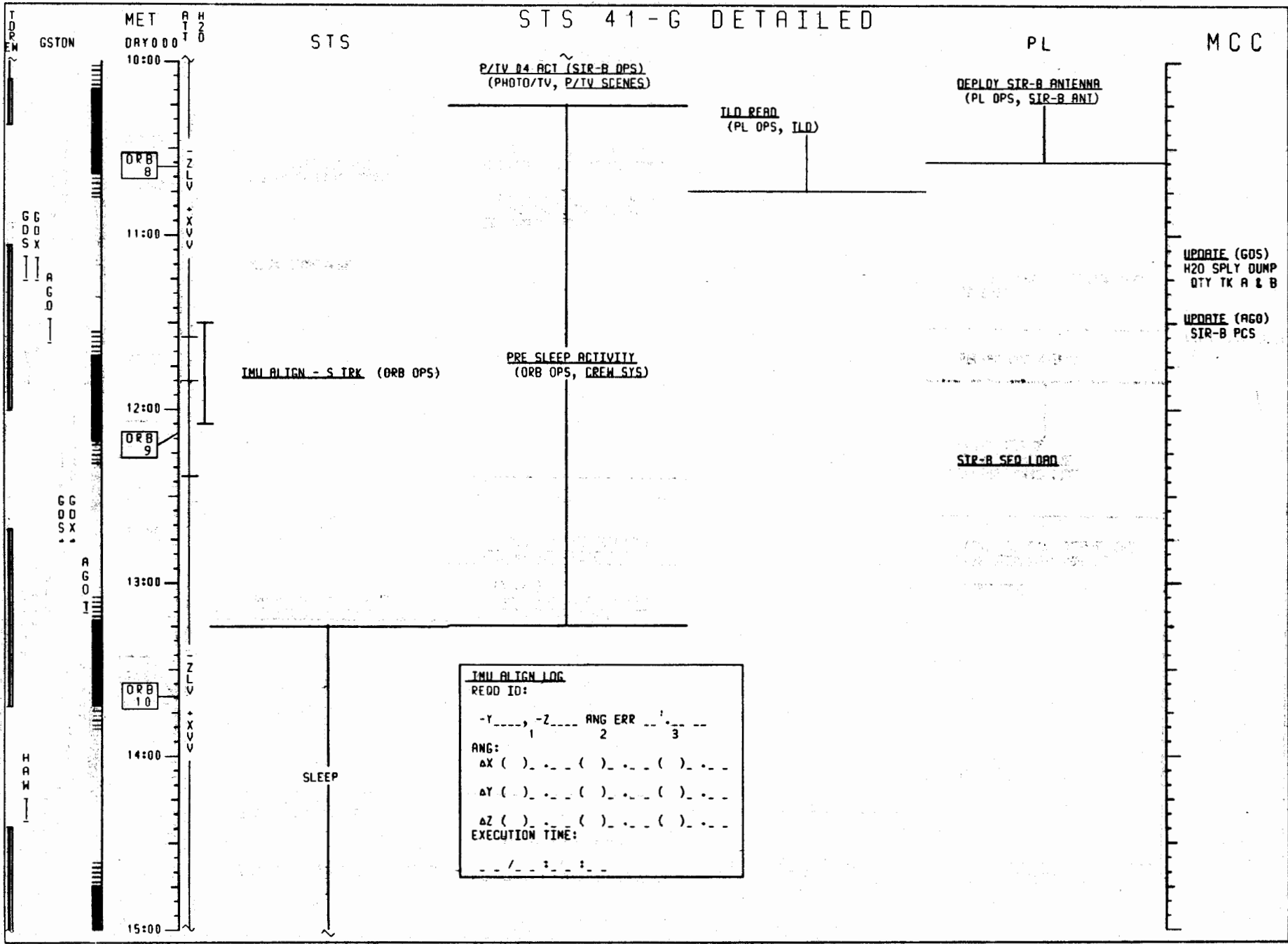
**DETAILED  
TIMELINE**





# STS 41-G DETAILED





STS 41-G DETAILED

STS

PL

MCC

MET DRY 000  
 10:00  
 11:00  
 12:00  
 13:00  
 14:00  
 15:00

P/TV R4 ACT (SIR-B OPS)  
 (PHOTO/TV, P/TV SCENES)

TLD READ  
 (PL OPS, TLD)

DEPLOY SIR-B ANTENNA  
 (PL OPS, SIR-B ANT)

UPDATE (GDS)  
 H2O SPLY DUMP  
 QTY TK A & B

UPDATE (AGO)  
 SIR-B PCS

IMU ALIGN - S TRK (ORB OPS)

PRE SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

SIR-B SEQ LOAD

SLEEP

IMU ALIGN LOG			
REDD ID:			
-Y	-Z	ANG ERR	
1	2	3	
ANG:			
ΔX	( )	( )	( )
ΔY	( )	( )	( )
ΔZ	( )	( )	( )
EXECUTION TIME:			
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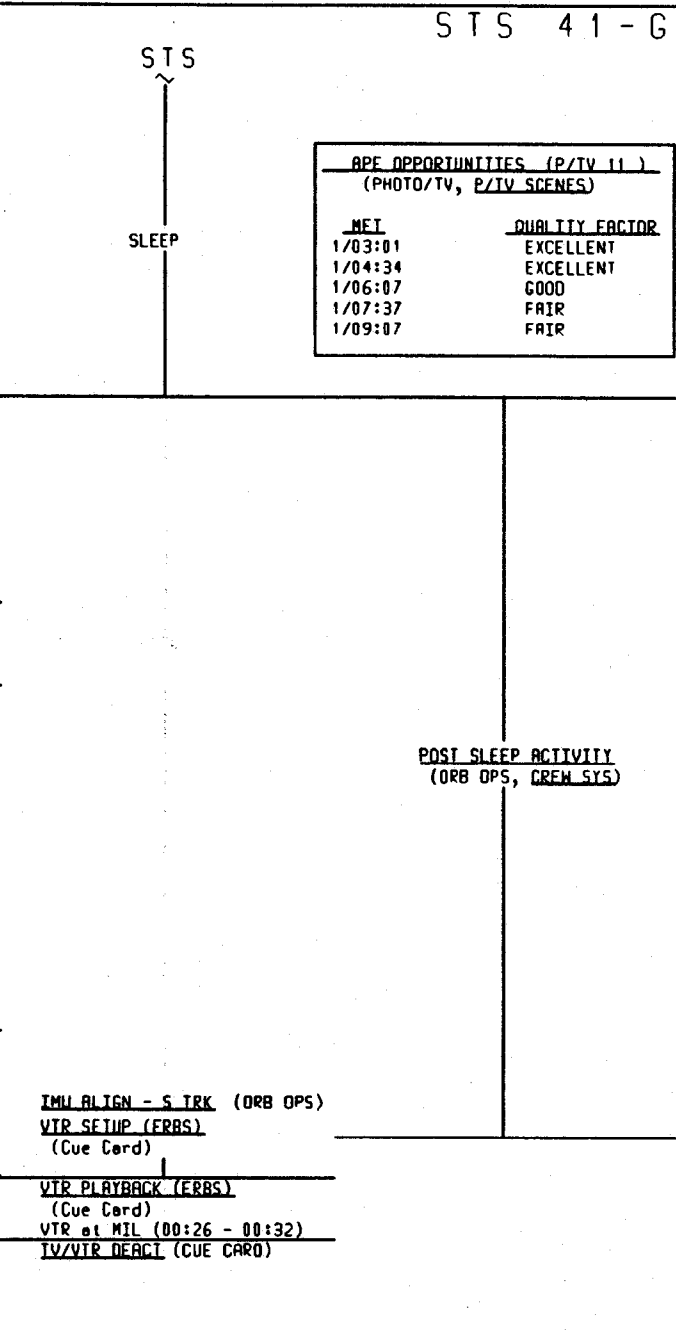
# STS 41-G DETAILED

PL

MCC

TDR EN  
 GSDN  
 IIMAR DX  
 ORR  
 AGO  
 BOARD  
 MAX  
 MAD  
 YARR  
 ORR  
 MMB  
 LIDL  
 XL  
 YARR  
 MIL  
 ILX  
 ORA  
 MMB  
 LIDL  
 XL  
 YARR

MET DAY 000  
 20:00  
 21:00  
 ORB 15  
 22:00  
 ORB 16  
 23:00  
 00:00  
 ORB 17  
 01:00



APE OPPORTUNITIES (P/TV II) (PHOTO/TV, P/TV SCENES)	
MET	QUALITY FACTOR
1/03:01	EXCELLENT
1/04:34	EXCELLENT
1/06:07	GOOD
1/07:37	FAIR
1/09:07	FAIR

PERFORM THE FOLLOWING ACTIVITIES TODAY

- EXERCISE (1 Hr. / All)
- MCP (30 min / 4 can)
- SPIT (15 min / 2 can / 4 times)
- VISION ACUITY (20 min / 4 can)
- VISUAL PERF. (30 min / 4 can)

IMU ALIGN LOG

RECD ID:

-Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_

1                      2                      3

ANG:

ΔX ( ) \_ \_ \_ ( ) \_ \_ \_ ( ) \_ \_ \_

ΔY ( ) \_ \_ \_ ( ) \_ \_ \_ ( ) \_ \_ \_

ΔZ ( ) \_ \_ \_ ( ) \_ \_ \_ ( ) \_ \_ \_

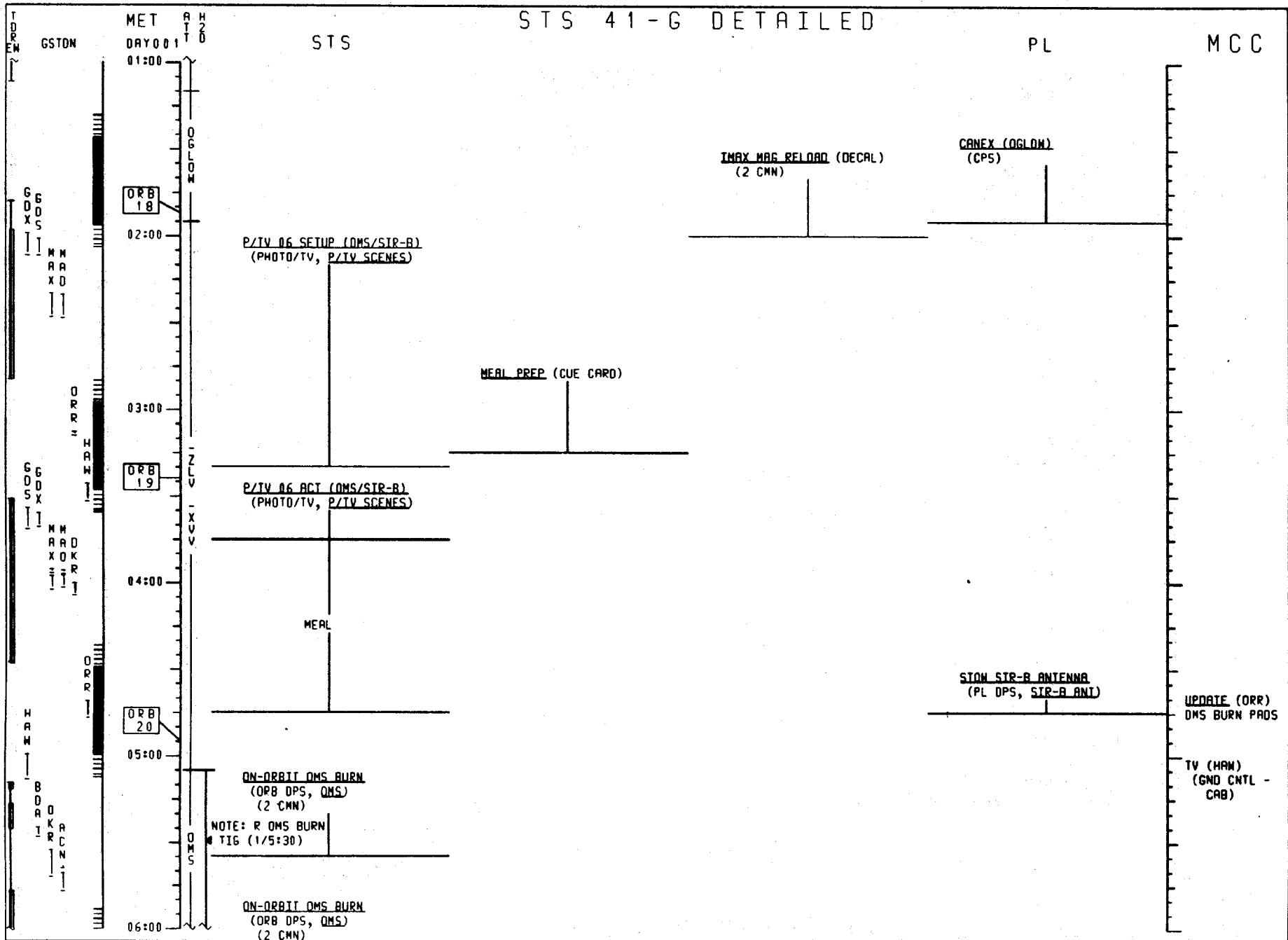
EXECUTION TIME:

\_\_ / \_\_ : \_\_ : \_\_

UPDATE (YAR)  
 H20 SPLY DUMP  
 QTY TK A & B  
 OMS/RCS  
 ICONNECT  
 CONFIG

ILD READ  
 (PL OPS, ILD)

VTR (MIL)





# STS 41-G DETAILED

STS

PL

MCC

MET DAY 001  
 11:00  
 12:00  
 13:00  
 14:00  
 15:00  
 16:00

GGDS  
 AGO  
 HRM

IMU ALIGN LOG  
 RECD ID:  
 -Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_  
 1                  2                  3  
 ANG:  
 ΔX ( ) . . . ( ) . . . ( ) . . .  
 ΔY ( ) . . . ( ) . . . ( ) . . .  
 ΔZ ( ) . . . ( ) . . . ( ) . . .  
 EXECUTION TIME:  
 \_ / \_ : \_ : \_

PRE SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

SIR-B SEQ LOAD

UPDATE (AGD)  
 SIR-B PCS



SLEEP

ORB  
25

ORB  
26

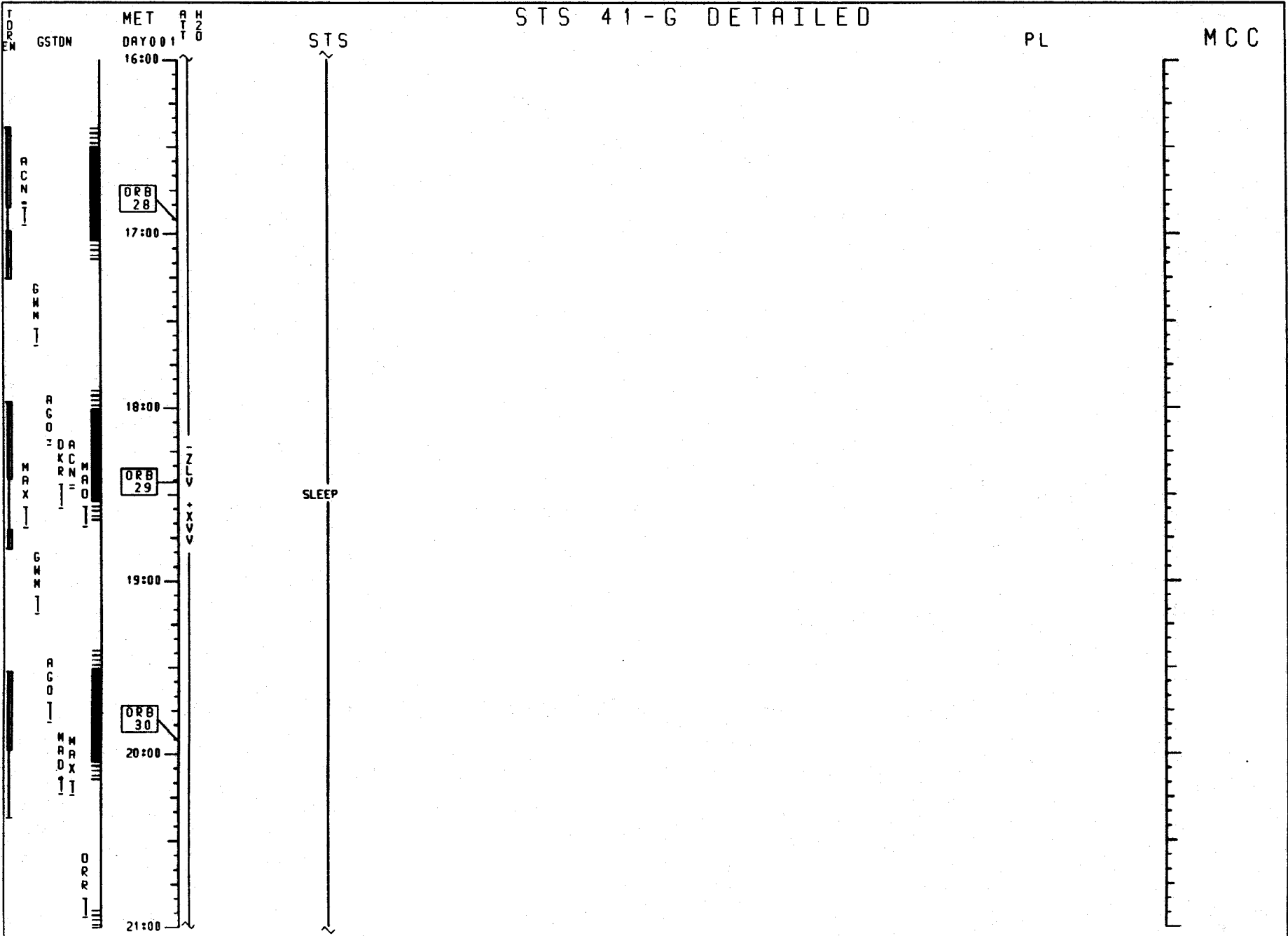
ORB  
27



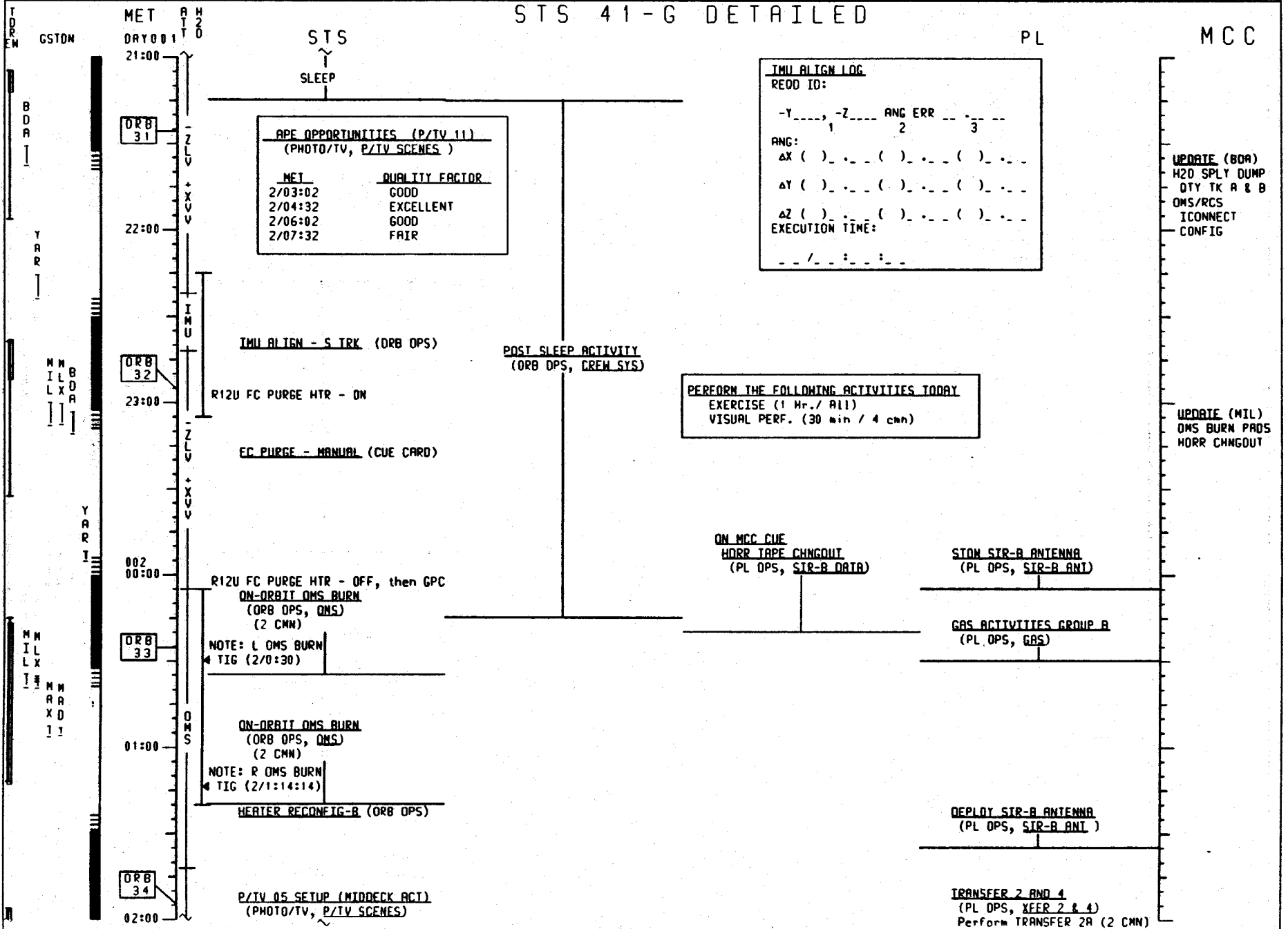
# STS 41-G DETAILED

PL

MCC



# STS 41-G DETAILED



**APE OPPORTUNITIES (P/TV 11)**  
(PHOTO/TV, P/TV SCENES)

MET	QUALITY FACTOR
2/03:02	GOOD
2/04:32	EXCELLENT
2/06:02	GOOD
2/07:32	FAIR

**TMU ALIGN LOG**  
REOD ID:

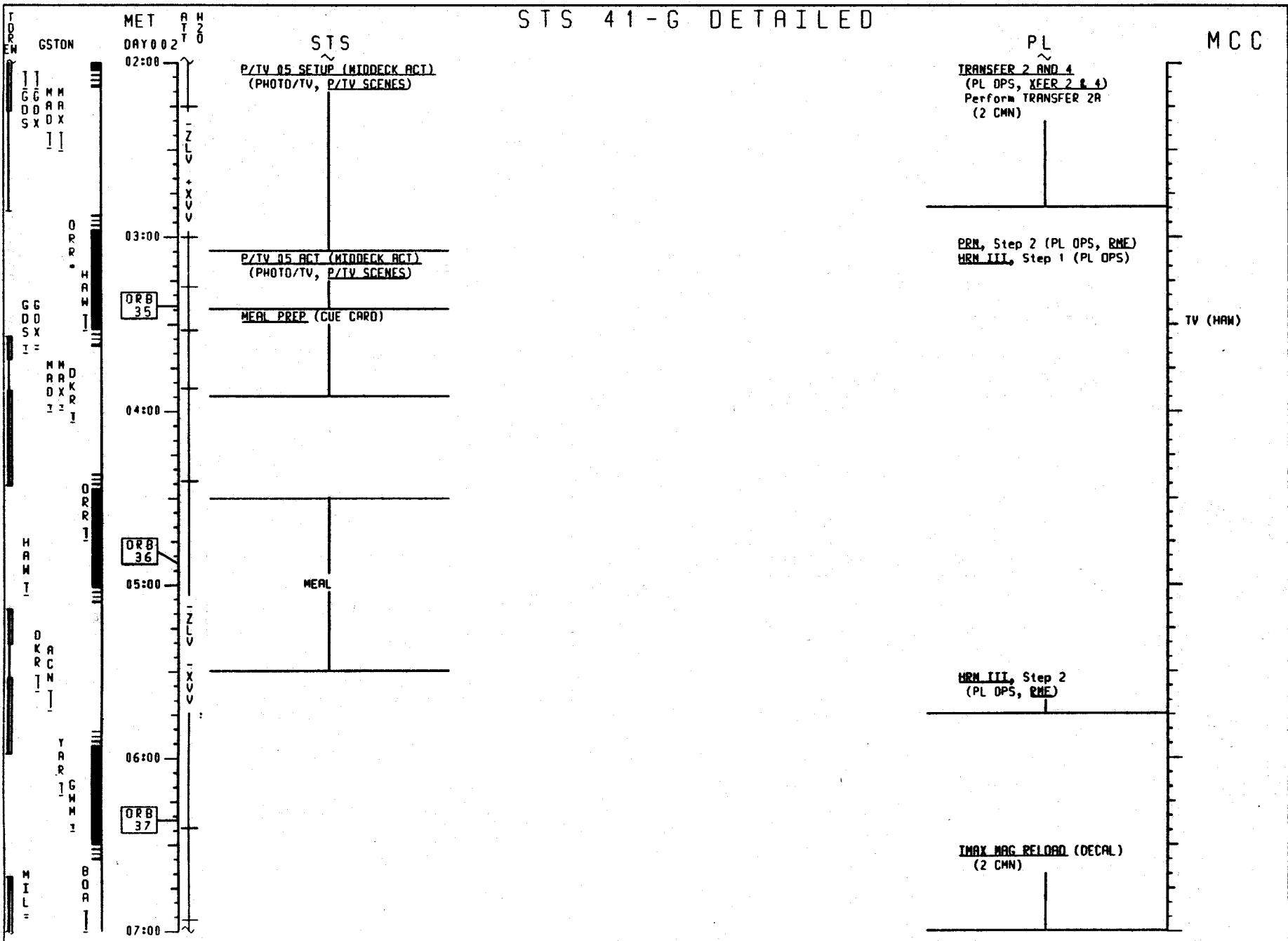
-Y	1	-Z	2	ANG ERR	3
ΔX	( )	( )	( )	( )	( )
ΔY	( )	( )	( )	( )	( )
ΔZ	( )	( )	( )	( )	( )
EXECUTION TIME:					
- / - : - : -					

**PERFORM THE FOLLOWING ACTIVITIES TODAY**  
 EXERCISE (1 Hr. / ALL)  
 VISUAL PERF. (30 min / 4 cmn)

UPDATE (BDA)  
 H2O SPLY DUMP  
 DTY TK A & B  
 OMS/RCS  
 ICONNECT  
 CONFIG

UPDATE (MIL)  
 OMS BURN PRDS  
 HORR CHNGOUT

# STS 41-G DETAILED



# STS 41-G DETAILED

STS

PL

MCC

MET DAY 002  
 07:00  
 08:00  
 09:00  
 10:00  
 11:00  
 12:00

TDRM  
 YARRCMMI  
 MILXBAR  
 GOXIE  
 AGOI  
 GOXIE  
 AGOI  
 GOXIE  
 AGOI

H2O  
 -ZLV  
 -XVV  
 -ZLV  
 +XVV  
 +YLV  
 +XVV  
 IMU  
 -ZLV  
 +XVV

ORB 38

ORB 39

ORB 40

IMU ALIGN - 5 TRK (ORB OPS)

PRE SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

TRANSFER 2 AND 4  
 (PL OPS, XFER 2 & 4)  
 Perform TRANSFER 2B  
 (2 CMN)

CREW MODULE MEAS - DTO 321  
 (CUE CARD)  
 Perform TAPE MEASUREMENTS  
 (2 CMN)

CREW MODULE MEAS - DTO 321  
 (CUE CARD)  
 Perform ALIGNMENT MARKS

GAS ACTIVITIES GROUP C  
 (PL OPS, GAS)

CREW MODULE MEAS - DTO 321  
 (CUE CARD)  
 Perform GAP MEASUREMENTS  
 (2 CMN)

UPDATE (AGO)  
 H2O SPLY DUMP  
 QTY TK A & B

IMU ALIGN LOG

READ ID:

-Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_

1            2            3

ANG:

ΔX ( ) . . . ( ) . . . ( ) . . .

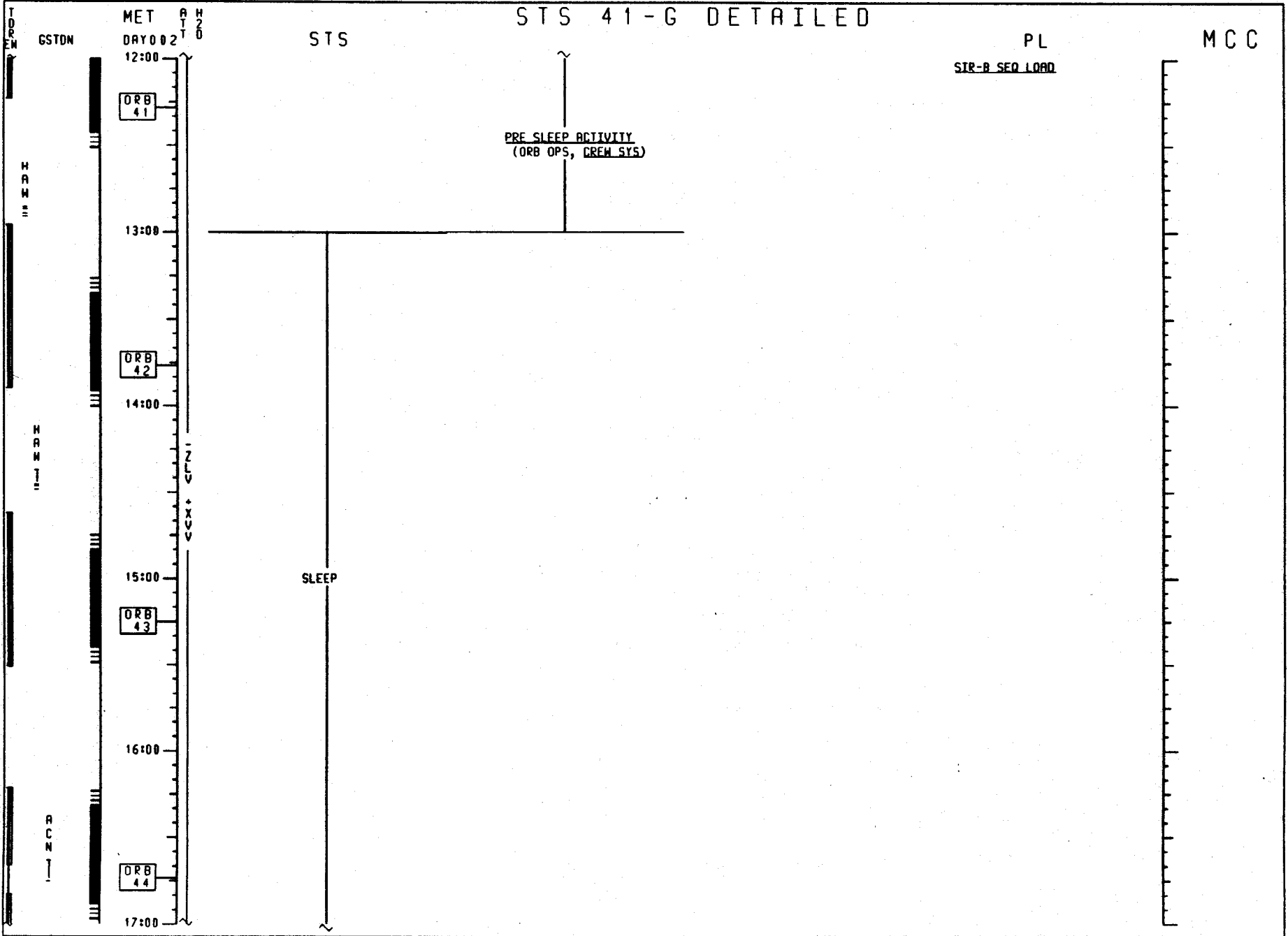
ΔY ( ) . . . ( ) . . . ( ) . . .

ΔZ ( ) . . . ( ) . . . ( ) . . .

EXECUTION TIME:

\_\_\_/\_\_\_:\_\_\_:\_\_\_

UPDATE (AGO)  
 SIR-B PCS



# STS 41-G DETAILED

PL

MCC

MET DAY 002  
17:00  
18:00  
19:00  
20:00  
21:00  
22:00

A H Z O  
N Z V  
V X X V

STS

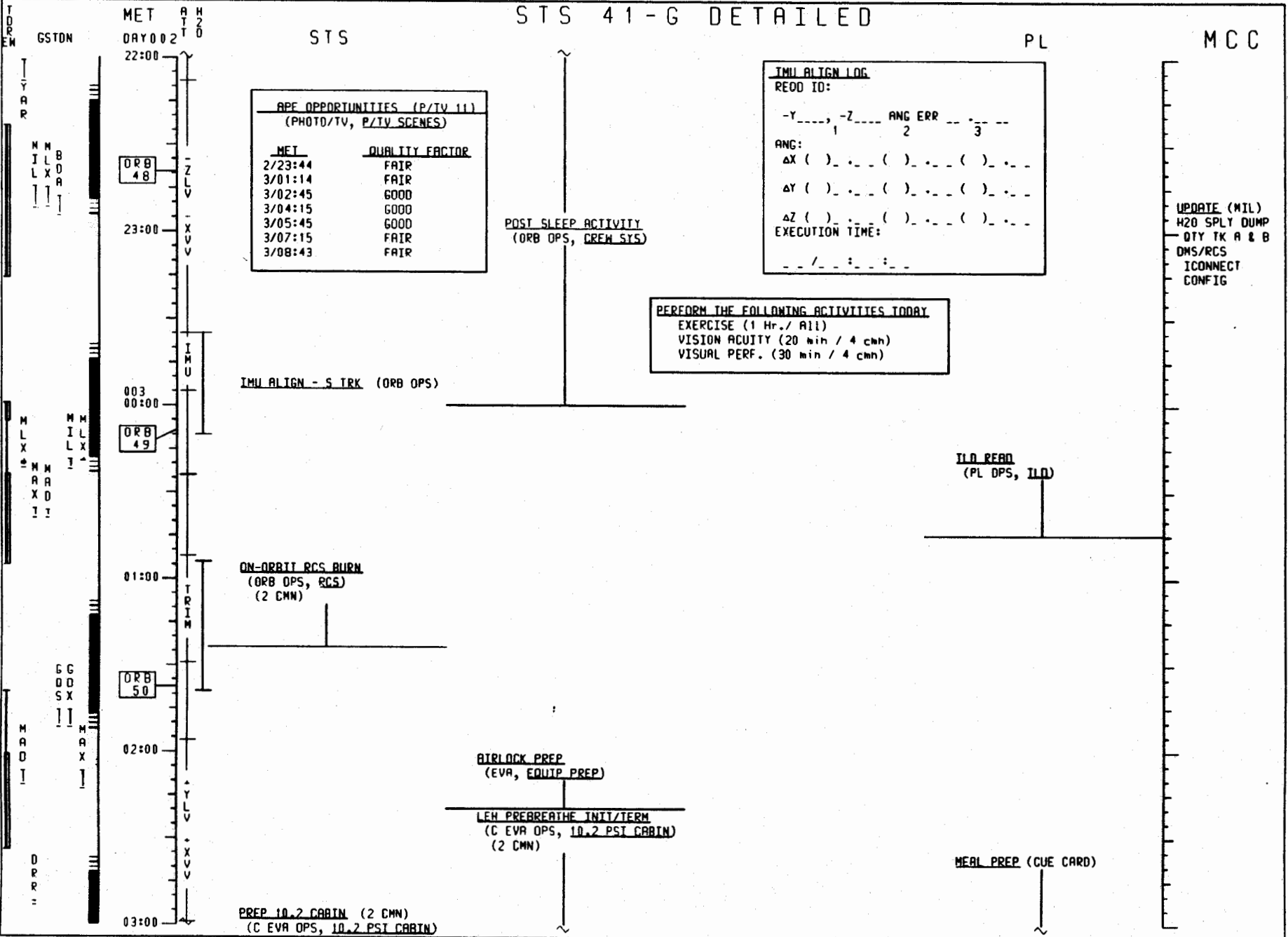
SLEEP

ORB 45

ORB 46

ORB 47

POST SLEEP ACTIVITY  
(ORB OPS, CREW SYS)



# STS 41-G DETAILED

MET DAY 002  
 22:00  
 23:00  
 00:00  
 01:00  
 02:00  
 03:00

STS

PL

MCC

APE OPPORTUNITIES (P/TV 11)  
 (PHOTO/TV, P/TV SCENES)

MET	QUALITY FACTOR
2/23:44	FAIR
3/01:14	FAIR
3/02:45	GOOD
3/04:15	GOOD
3/05:45	GOOD
3/07:15	FAIR
3/08:43	FAIR

IMU ALIGN LOG  
 REOD ID:

-Y	-Z	ANG ERR
1	2	3
ANG:		
$\Delta X$ ( )	( )	( )
$\Delta Y$ ( )	( )	( )
$\Delta Z$ ( )	( )	( )
EXECUTION TIME:		
- / -	:	:

PERFORM THE FOLLOWING ACTIVITIES TODAY  
 EXERCISE (1 Hr. / All)  
 VISION ACUITY (20 min / 4 chn)  
 VISUAL PERF. (30 min / 4 chn)

UPDATE (MIL)  
 H2O SPLY DUMP  
 QTY TK A & B  
 DMS/RCS  
 ICONNECT  
 CONFIG

POST SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

IMU ALIGN - 5 TRK (ORB OPS)

ILD READ  
 (PL OPS, ILD)

ON-ORBIT RCS BURN  
 (ORB OPS, RCS)  
 (2 CMN)

AIRLOCK PREP  
 (EVA, EQUIP PREP)

LEH PREBREATHING INIT/TERM  
 (C EVA OPS, 10.2 PST CABIN)  
 (2 CMN)

MEAL PREP (CUE CARD)

PREP 10.2 CABIN (2 CMN)  
 (C EVA OPS, 10.2 PST CABIN)

# STS 41-G DETAILED

MCC

PL

MEAL PREP (CUE CARD)

MET DAY 003  
 03:00  
 04:00  
 05:00  
 06:00  
 07:00  
 08:00

A T 2 0  
 H 2 0  
 Z L V  
 + X V V  
 Z L V  
 + X V V  
 Z L V  
 + X V V  
 Z L V  
 + X V V

STS

10.2 PSI CABIN DEPRESS  
 (C EVA OPS, 10.2 PSI CABIN)

LEH PREBREATH INITI/TERM  
 (C EVA OPS, 10.2 PSI CABIN)  
 (2 CMN)

10.2 PSI CABIN CONFIG  
 (C EVA OPS, 10.2 PSI CABIN)

MEAL

EMU C/D  
 (EVA, EMU CHECKOUT)  
 (2 CMN)

LI FLOW PROP VLV LOOP 1 - ICH  
 (1b - ICH)

EMU 3

CANEX (SPEAK)  
 (CPS)

EMU 1 & 2

P/TV 07 SETUP (EMU C/D)  
 (PHOTO/TV, P/TV SCENES)

RMS POWERUP  
 (POPS OPS, RMS PHRUP)  
 EDIM - DSO 303  
 (POPS OPS, EDIM)

P/TV 07 ACT (EMU C/D)  
 (PHOTO/TV, P/TV SCENES)

TO REW  
 GSTDN  
 GDS 1  
 MARK 1  
 MARK 2  
 MARK 3  
 MARK 4  
 MARK 5  
 MARK 6  
 MARK 7  
 MARK 8  
 MARK 9  
 MARK 10  
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 MARK 98  
 MARK 99  
 MARK 100



# STS 41-G DETAILED

PL

MCC

MET DAY 003  
 08:00  
 09:00  
 10:00  
 11:00  
 12:00  
 13:00

STS  
 EMU C/D  
 (EVA, EMU CHECKOUT)  
 (2 CMN)  
 H2O DUMP & H2O CHARGE  
 (EVA, EMU MAINT/RECHARGE)  
 EMU 1 & 2  
 (2 CMN)

P/TV DZ ACT (EMU C/D)  
 (PHOTO/TV, P/TV SCENES)

ORB 55

ORB 56

ORB 57

IMU ALIGN - S TRK (ORB OPS)

PRE SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

IMAX MAG RELOAD (DECAL)  
 (2 CMN)

GAS ACTIVITIES GROUP E  
 (PL OPS, GAS)

UPDATE (AGO)  
 H2O SPLY DUMP  
 QTY TK A & B

IMU ALIGN LOG  
 RECD ID:  
 -Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_  
           1          2          3  
 ANG:  
 ΔX ( ) . . . ( ) . . . ( ) . . .  
 ΔY ( ) . . . ( ) . . . ( ) . . .  
 ΔZ ( ) . . . ( ) . . . ( ) . . .  
 EXECUTION TIME:  
 \_ / \_ : \_ : \_

UPDATE (AGO)  
 SIR-B PCS

SIR-B SEQ LOAD

STS 41-G DETAILED

PL

MCC

STS

MET  
 AT 20  
 DRY 003  
 13:00  
 ORB 58  
 14:00  
 ORB 59  
 15:00  
 ORB 60  
 16:00  
 ORB 61  
 17:00  
 18:00

SLEEP

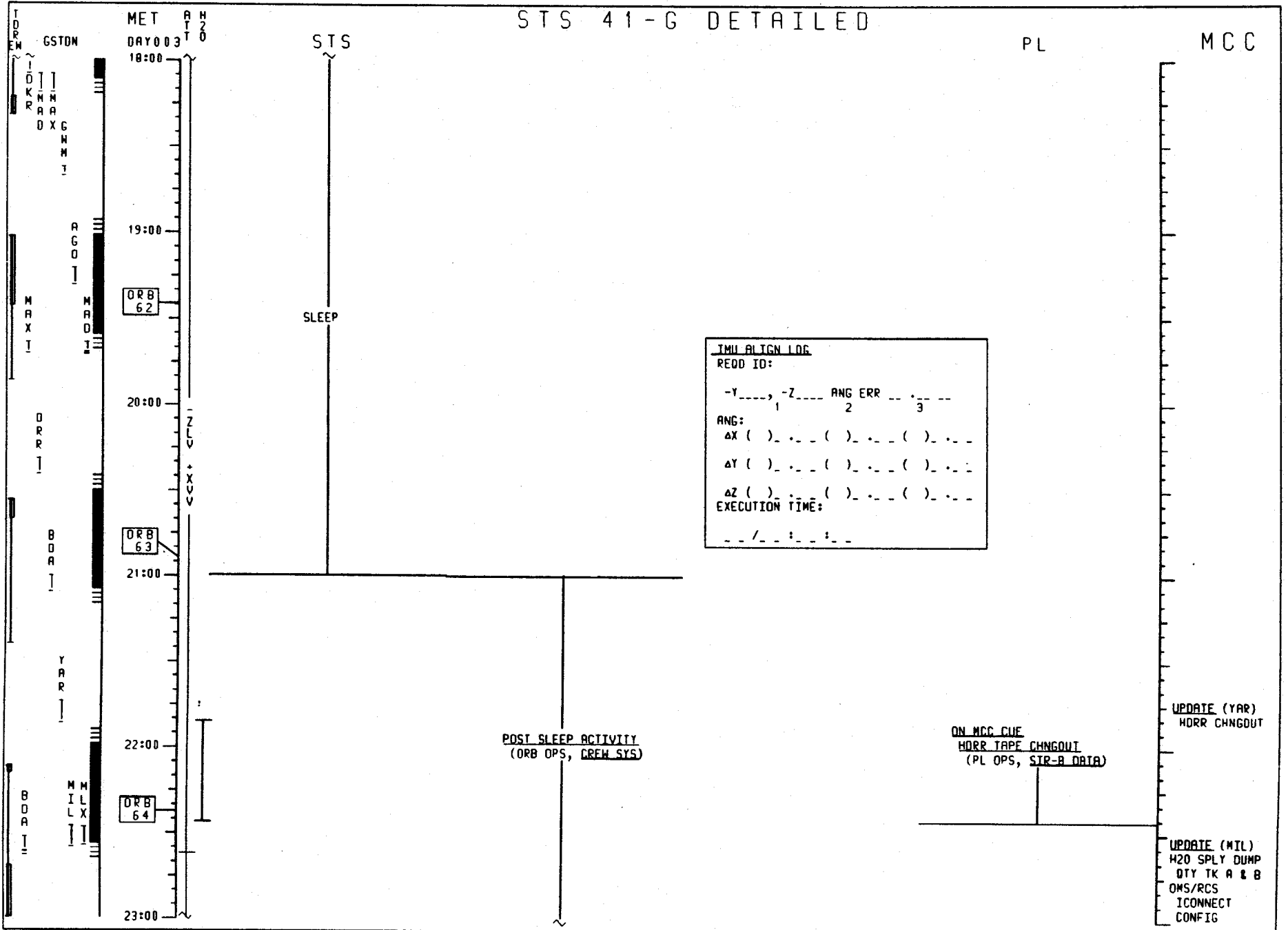
T  
D  
R  
E  
W  
 G  
S  
T  
O  
N  
 H  
A  
M  
I  
 R  
C  
N  
 G  
W  
M  
I  
 R  
C  
O  
D  
K  
R  
R

Vertical scale with tick marks on the right side of the page.

# STS 41-G DETAILED

PL

MCC



MET DAY 003  
 18:00  
 19:00  
 20:00  
 21:00  
 22:00  
 23:00

STS  
 SLEEP

POST SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

ON MCC CUE  
 HDRR TAPE CHNGOUT  
 (PL OPS, STR-A DATA)

UPDATE (YAR)  
 HDRR CHNGOUT

UPDATE (MIL)  
 H2O SPLY DUMP  
 DTY TK A & B  
 OMS/RCS  
 ICONNECT  
 CONFIG

IMU ALIGN LOG  
 REDD ID:  
 -Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_  
           1          2          3  
 ANG:  
 ΔX ( ) . . . ( ) . . . ( ) . . .  
 ΔY ( ) . . . ( ) . . . ( ) . . .  
 ΔZ ( ) . . . ( ) . . . ( ) . . .  
 EXECUTION TIME:  
 \_ \_ / \_ \_ : \_ \_ : \_ \_

# STS 41-G DETAILED

PL

MCC

MET DAY 003  
 23:00  
 00:00  
 01:00  
 02:00  
 03:00  
 04:00

STS

IMU ALIGN - S TRK (ORB OPS)

POST SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

RCS REGULATOR RECONFIGURE  
 07/08 HE PRESS A(three)-CL(tb-CL)  
 B(three)-GPC(tb-OP)

P/TV OR SETUP (EVA)  
 (PHOTO/TV, P/TV SCENES)

ON-ORBIT RCS BURN  
 (ORB OPS, RCS)  
 (2 CMN)

MIDDECK PREP  
 (EVA, EQUIP PREP)

EVA DAY PROCEDURES, Step 1  
 (PL OPS, ORS EVA PROC)

EVA PREP  
 (EVA, EVA PREP)  
 (3 CMN)

P/TV OR ACT (EVA)  
 (PHOTO/TV, P/TV SCENES)

APE OPPORTUNITIES (P/TV 11) (PHOTO/TV, P/TV SCENES)	
MET	QUALITY FACTOR
3/23:29	FAIP
4/00:58	FAIP
4/02:28	GOOD
4/03:58	GOOD
4/05:28	GOOD
4/06:57	FAIP
4/08:26	FAIP

04:00

TV (HAM)

# STS 41-G DETAILED

PL

MCC

MET DAY 004  
 04:00  
 05:00  
 06:00  
 07:00  
 08:00  
 09:00

STS

EVA PREP  
 (EVA, EVA PREP)  
 (3 CMN)

AIRLOCK DEPRESS  
 (CUE CARD)  
 (2 CMN)

AIRLOCK EGRESS

INSTALL OPS  
 MOD KIT

AIRLOCK INGRESS

AIRLOCK REPRESS  
 (CUE CARD)  
 (2 CMN)

POST EVA  
 (EVA, POST EVA)  
 (2 CMN)

CABIN REPRESS TO 14.7 PSI  
 (C EVA OPS, 10.2 PSI CABIN)  
 (2 CMN)

EVA-1 SUPPORT  
 (EVA, EVA-1 T/L)

MNVR RMS  
 (PDRS OPS, OPS)

WASTE/SUPPLY WATER DUMP  
 (DRB OPS, ECLS)  
 If reqd

EDIM - DSO 303  
 (PDRS OPS, EDIM)

◀ SIR-B DEACTIVATION Step 4  
 (PL OPS, EXP DEACT)  
 Prior to 4/04:35

EVA DAY PROCEDURES  
 (PL OPS, OPS EVA PROC)  
 Step 2

◀ SIR-B ACTIVATION  
 (PL OPS, EXP ACT)  
 No later than 4/07:25

TV (TDRS)  
 UPDATE (HAW)  
 H2O WASTE  
 DUMP QTY  
 H2O SPLY DUMP  
 QTY TK A & B

TV (TDRS)

TDR EM  
 GSTON  
 TH PRW T  
 BOARD KPCN  
 YARR I  
 GMM Y  
 M L X  
 YARR I  
 GMM I  
 M L X  
 U

# STS 41-G DETAILED

MET  
DAY 004

STS

PL

MCC

09:00

L1 FLOW PROP VLV LOOP 1 - PL  
(tb - PL)  
PCS 1(2) CONEIG (ORB OPS)  
(2 CMN)

IMAX MAG RELOAD (DECAL)  
(2 CMN)

10:00

IMU ALIGN - S TRK (ORB OPS)

ORB  
72

IMU ALIGN LOG  
READ ID:

-Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_  
          1          2          3

ANG:  
ΔX ( ) . . . ( ) . . . ( ) . . .  
ΔY ( ) . . . ( ) . . . ( ) . . .  
ΔZ ( ) . . . ( ) . . . ( ) . . .  
EXECUTION TIME:  
\_ / \_ : \_ : \_

UPDATE (AGD)  
H2O SPLY DUMP  
QTY TK A & B

11:00

PRE SLEEP ACTIVITY  
(ORB OPS, CREW SYS)

UPDATE (AGD)  
SIR-B PCS

ORB  
73

EVA DAY PROCEDURES,  
(PL OPS, QRS EVA PROC)  
Step 3

12:00

SIR-B SEQ LOAD

13:00

SLEEP

ORB  
74

14:00

IDP  
EM  
GSTON  
  
GGG  
DDO  
SXX  
  
GGG  
DDO  
SXX  
  
AGC  
O  
L  
  
HAW  
T  
  
HAW  
T

STS 41-G DETAILED

PL

MCC

MET DAY 004  
14:00  
15:00  
16:00  
17:00  
18:00  
19:00

STS  
SLEEP

ORB 75

ORB 76

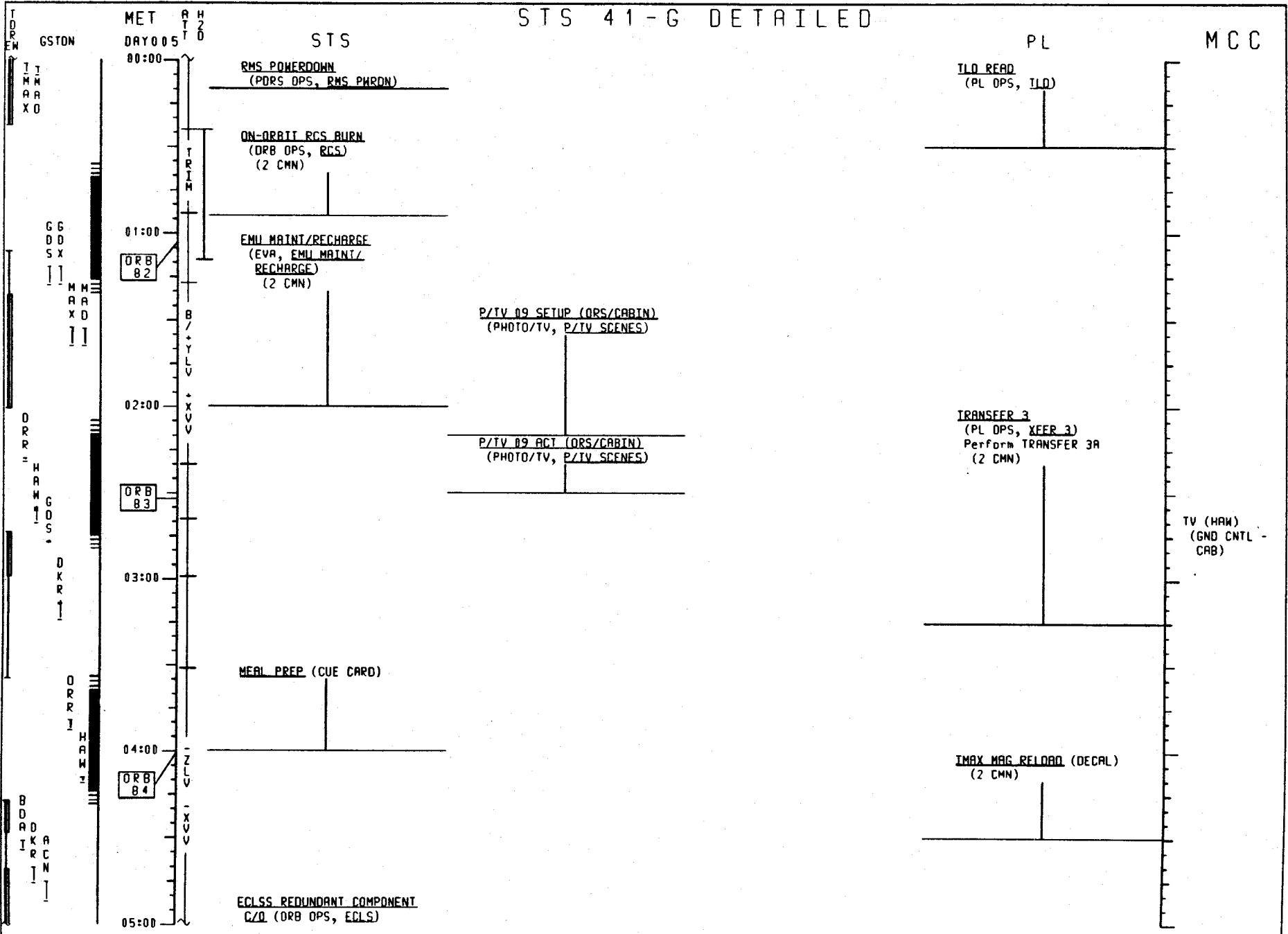
ORB 77

TDR FM  
GSTON  
R C N D K R  
G M N I  
R G O O  
M R X I  
G M N O  
R R R O  
R G O O

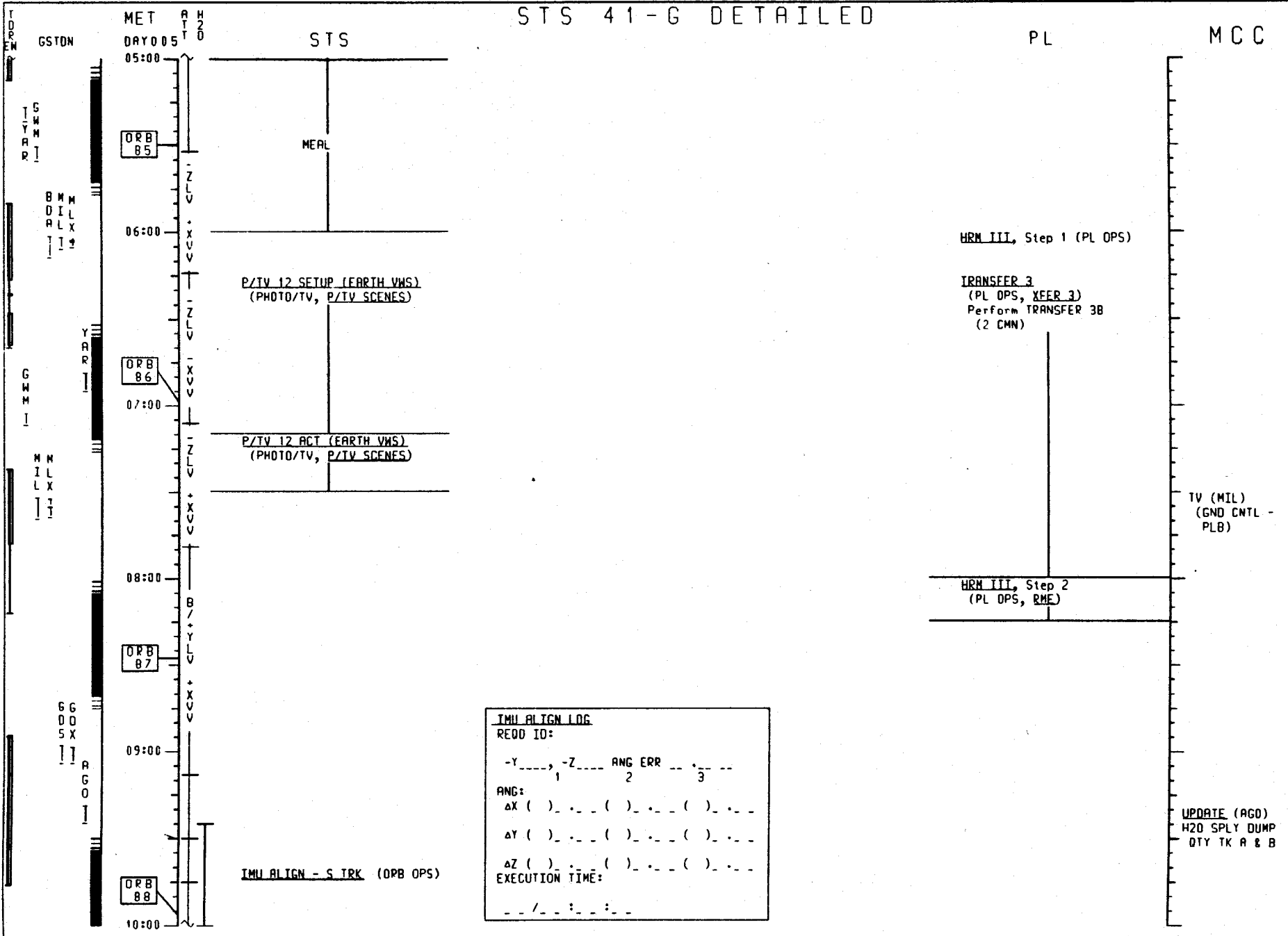


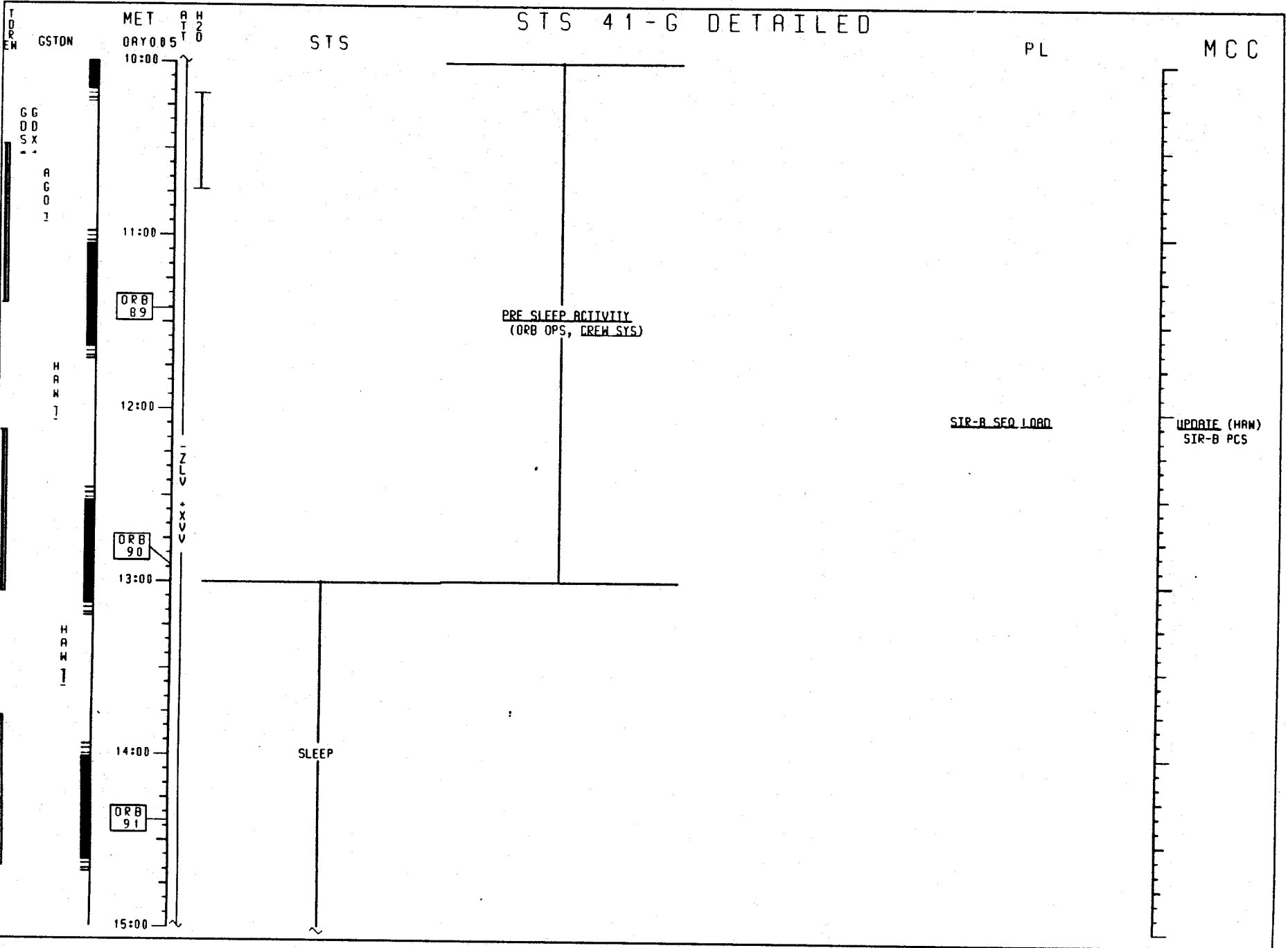


# STS 41-G DETAILED



# STS 41-G DETAILED

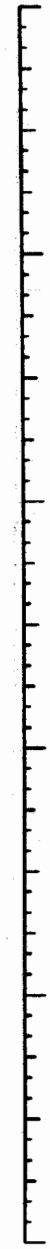
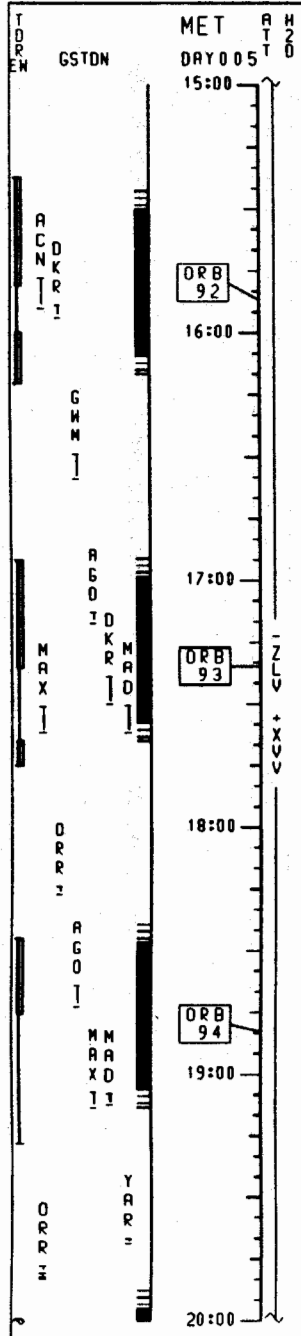




# STS 41-G DETAILED

PL

MCC



# STS 41-G DETAILED

PL

MCC

MET  
DAY 005  
20:00  
21:00  
22:00  
23:00  
006  
00:00  
01:00

STS  
SLEEP

**PERFORM THE FOLLOWING ACTIVITIES TODAY**  
 EXERCISE (1 Hr. / All)  
 MCP (30 min / 4 cmh)  
 VISUAL PERF. (30 min / 4 cmh)

**POST SLEEP ACTIVITY**  
 (ORB OPS, CREW SYS)

**IMU ALIGN - S TRK (ORB OPS)**

**ON-ORBIT RCS BURN**  
 (ORB OPS, RCS)  
 (2 CMH)

APE OPPORTUNITIES (P/TV 11) (PHOTO/TV, P/TV SCENES)	
MET	QUALITY FACTOR
5/22:56	FAIR
6/00:25	FAIR
6/01:54	GOOD
6/03:23	FAIR
6/04:53	FAIR
6/06:22	FAIR

**ON MCC CUE**  
**HOOR TAPE CHNGOUT**  
 (PL OPS, SIR-B DATA)

**UPDATE (YAR)**  
 H2O SPLY DUMP  
 QTY TK A & B  
 OMS/RCS  
 ICONNECT  
 CONFIG  
 HOOR CHNGOUT

IMU ALIGN LOG			
READ ID:			
-Y	-Z	ANG ERR	
1	2	3	
ANG:			
ΔX	( )	( )	( )
ΔY	( )	( )	( )
ΔZ	( )	( )	( )
EXECUTION TIME:			
---	---	---	---

TDRW  
 BOARD  
 YAR  
 MILBOARD  
 MADI  
 GG  
 DD  
 XS  
 II

# STS 41-G DETAILED

STS

PL

MCC

MET DAY 06  
 01:00  
 02:00  
 03:00  
 04:00  
 05:00  
 06:00

TORRES  
 GSTDN  
 SOG  
 MAX  
 ORR  
 HAN  
 BOARD  
 RCN  
 GNN  
 OLI  
 AXL

ORB 99

ORB 100

ORB 101

MEAL PREP (CUE CARD)

P/TV 10 SETUP (CREW CONF)  
 (PHOTO/TV, P/TV SCENES)

P/TV 10 ACT (CREW CONF)  
 (PHOTO/TV, P/TV SCENES)

ON MCC CUE  
 HDRR TAPE CHNGOUT  
 (PL OPS, SIR-B DATA)

CANEX CONFERENCE  
 (CPS)

HRM III, Step 1 (PL OPS)

TRANSFER 2 AND 4  
 (PL OPS, XEER 2 & 4)  
 Perform TRANSFER 4A  
 (2 CMN)

HRM III, Step 2  
 (PL OPS, RME)

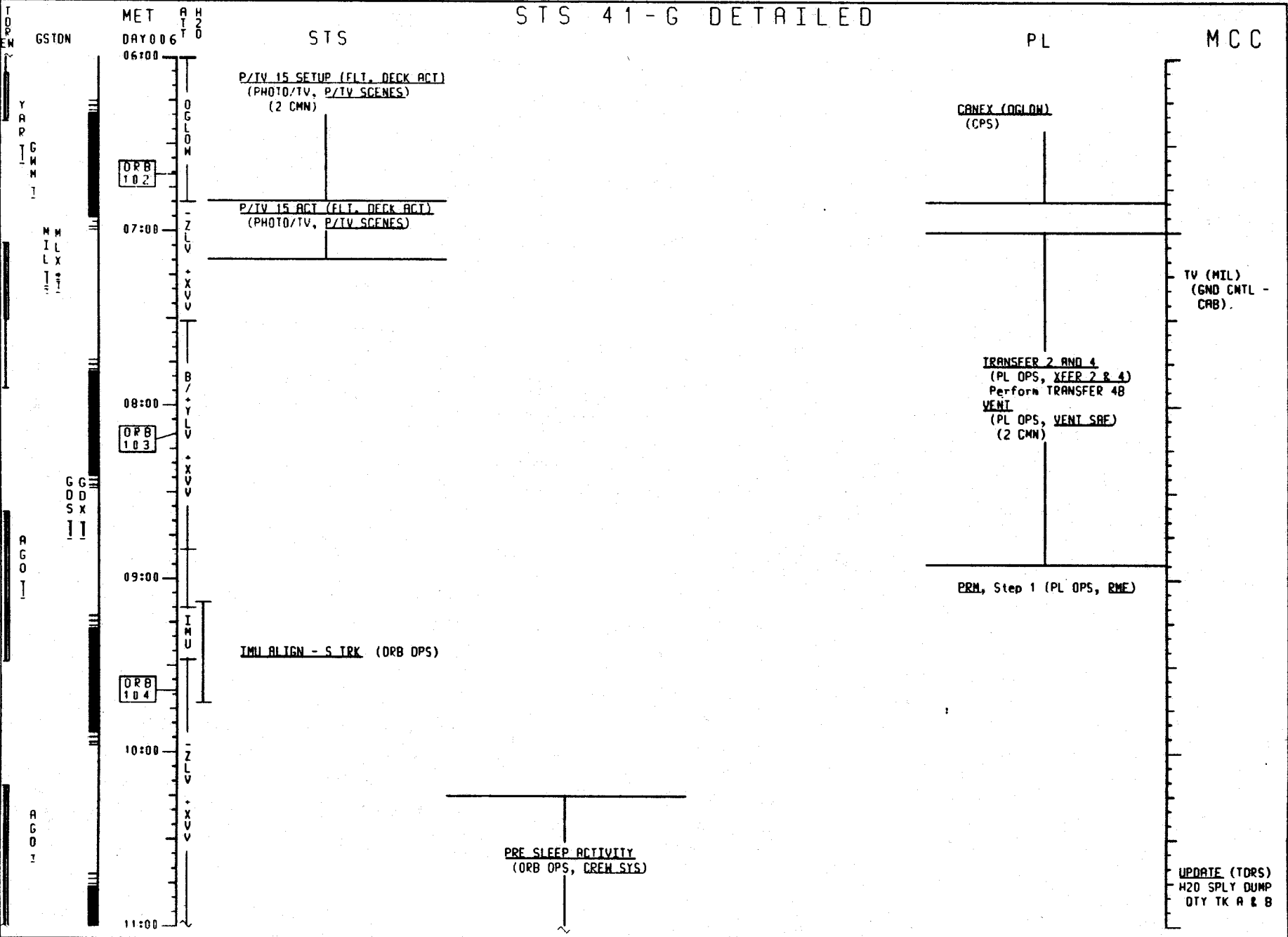
CANEX (SPEARM)  
 (CPS)

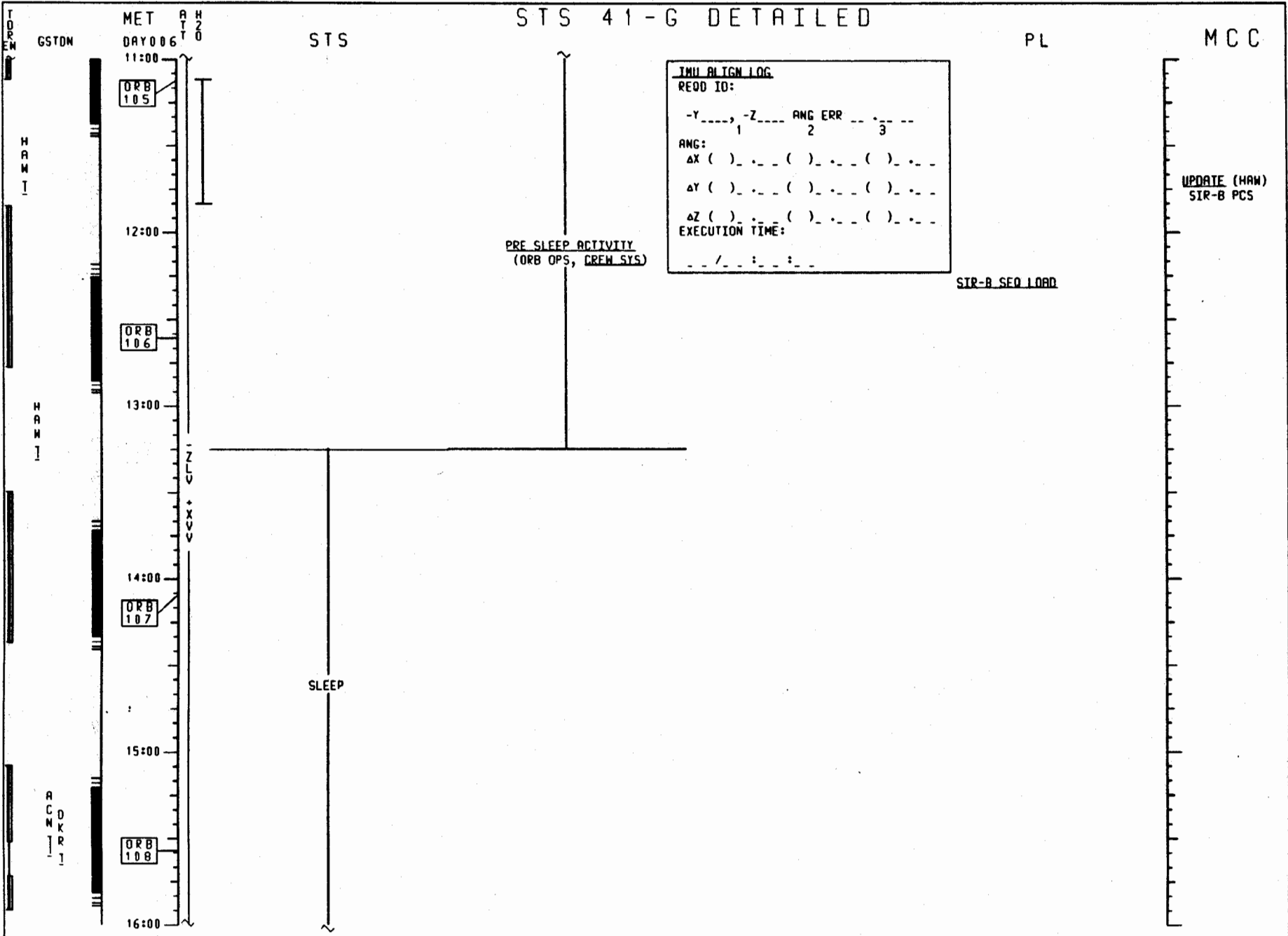
UPDATE (DKR)  
 HDRR CHNGOUT

TV (TORS)

MEAL

# STS 41-G DETAILED



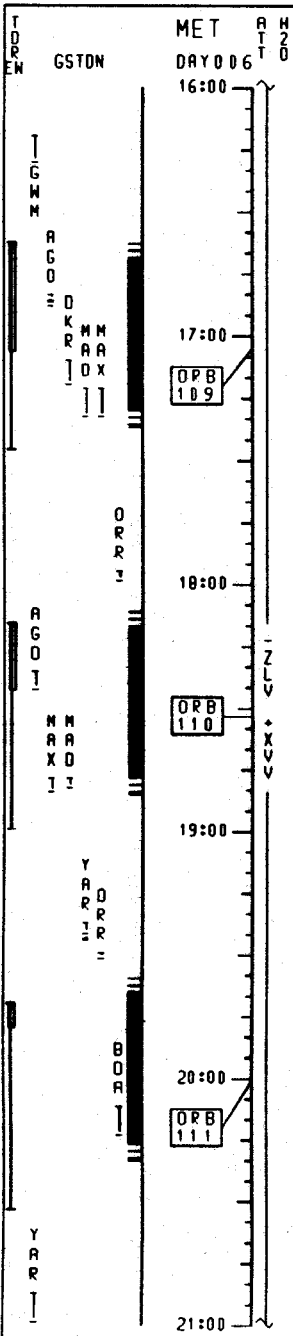




# STS 41-G DETAILED

PL

MCC



STS

SLEEP

# STS 41-G DETAILED

PL

MCC

MET DAY 006  
 21:00  
 22:00  
 23:00  
 007 00:00  
 01:00  
 02:00

STS  
 SLEEP

**PERFORM THE FOLLOWING ACTIVITIES TODAY**  
 EXERCISE (1 Hr. / All)  
 SPIT (15 min / 2 can / 4 times)  
 VISUAL PERF. (30 min / 4 can)

APE OPPORTUNITIES (P/TV 11)	
(PHOTO/TV, P/TV SCENES)	
MET	QUALITY FACTOR
6/22:39	FAIR
7/00:08	FAIR
7/01:37	FAIR
7/03:06	FAIR
7/04:35	FAIR

UPDATE (MIL)  
 H2O SPLY DUMP  
 QTY TK A & B  
 OMS/RCS  
 ICONNECT  
 CONFIG  
 HRR CHNGOUT

IMU ALIGN - S TRK (ORB OPS)

POST SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

ON MCC CUE  
 HRR TAPE CHNGOUT  
 (PL OPS, STR-B DATA)

ORB 113

**IMU ALIGN LOG**  
 RECD ID:  
 -Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_  
           1      2      3  
 ANG:  
 ΔX ( ) . . . ( ) . . . ( ) . . .  
 ΔY ( ) . . . ( ) . . . ( ) . . .  
 ΔZ ( ) . . . ( ) . . . ( ) . . .  
 EXECUTION TIME:  
 \_ \_ / \_ \_ : \_ \_ : \_ \_

P/TV 10 SETUP (CREW CONF)  
 (PHOTO/TV, P/TV SCENES)

GAS ACTIVITIES GROUP K  
 (PL OPS, GAS)

ORB 114

P/TV 10 ACT (CREW CONF)  
 (PHOTO/TV, P/TV SCENES)

GAS ENCAP STON  
 (PL OPS, GAS)

ILD READ  
 (PL OPS, ILD)

01:00

CREW CONFERENCE

TV (TORS)

ORB 115

PRN, Step 2 (PL OPS, RME)

# STS 41-G DETAILED

PL

MCC

MET  
DAY 007  
02:00  
03:00  
04:00  
05:00  
06:00  
07:00

STS

APU STEAM VENT HTR ACT  
R2 BLR CNTLR PWR/HTR(three)-B  
CNTLR(three) -ON

ECS CHECKOUT  
(ORB OPS, GNC)  
(2 CMN)

ORB 116

MEAL PREP (CUE CARD)

POST EVA ENT PREP  
(EVA, POST EVA  
ENT PREP)

ORB 117

ON MCC CUE  
R2 APU FUEL PUMP/VLV COOL A-OFF  
CNTLR PWR(three) -OFF

MEAL

RCS HOT FIRE TEST  
(ORB OPS, RCS)  
(2 CMN)

ORB 118

INFORM CREW  
GO FOR APU  
COOL OFF

TOR EN  
GSTDN  
HAWDKR  
ORRPI  
BDRKR  
YARRI  
GMMI  
MMLXAL  
GMMI  
GMSLX

STS 41-G DETAILED

PL

MCC

STS

MET DAY 007  
 07:00  
 08:00  
 09:00  
 10:00  
 11:00  
 12:00

LAMP & FIRE SUPPR TEST  
 (ORB OPS, EPS) (2 CMN)  
 CABIN CONECTG/STOW  
 (ORB OPS, CREW SYS)

ORB 119

ORB 120

ORB 121

PRE SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

STOW SIR-B ANTENNA  
 (PL OPS, SIR-B ANT)

UPDATE (HAM)  
 H2O SPLY DUMP  
 QTY TK A & B

# STS 41-G DETAILED

PL

MCC

STS

MET  
 DAY 007  
 12:00  
 13:00  
 14:00  
 15:00  
 16:00  
 17:00

A  
T  
H  
2  
0  
 Z  
L  
V  
 +  
X  
V  
V

IMJ ALIGN - S TRK (ORB OPS)

PRE SLEEP ACTIVITY  
 (ORB OPS, CREW SYS)

SLEEP

IMJ ALIGN LOG		
REQD ID:		
-Y	-Z	ANG ERR
1	2	3
ANG:		
$\Delta X$ ( )	( )	( )
$\Delta Y$ ( )	( )	( )
$\Delta Z$ ( )	( )	( )
EXECUTION TIME:		
- / -	- : -	- : -

ORB  
122

ORB  
123

ORB  
124

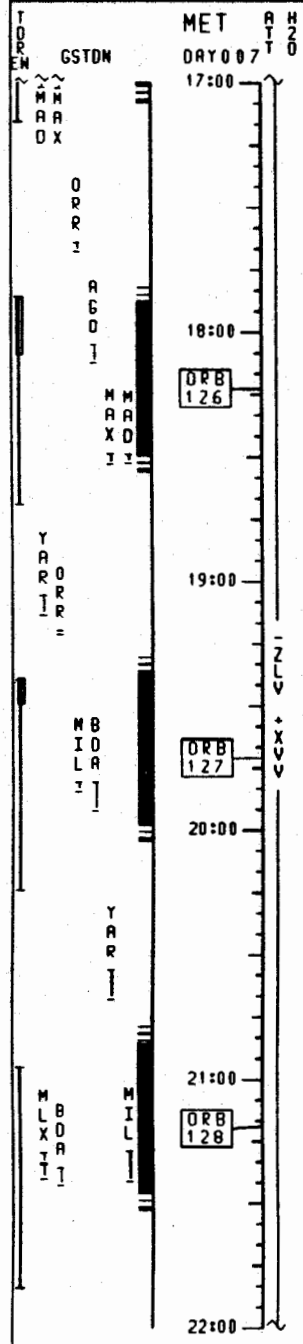
ORB  
125

T  
O  
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C  
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G  
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D  
O  
K  
R  
I  
 M  
A  
R  
O  
X  
I

# STS 41-G DETAILED

PL

MCC



STS

SLEEP

POST SLEEP ACTIVITY  
(ORB OPS, CREW SYS)

UPDATE (MIL)  
H20 SPLY DUMP  
DTY TK A & B  
OMS/RCS  
ICONNECT  
CONFIG

TEMP

GSTDN

MET DAY 007  
22:00

A H Z D  
T T 0

STS

# STS 41-G DETAILED

PL

MCC

GG  
DD  
SX  
=

MM  
AA  
XX  
DD

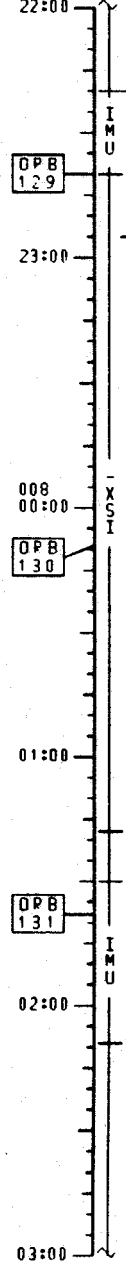
GG  
DD  
SX  
II

MM  
AA  
XX  
DD

ORR  
H  
AW  
I

D  
K  
R  
I

ORR  
I



OPB 129

OPB 130

OPB 131

IMU ALIGN - S TRK (ORB OPS)

POST SLEEP ACTIVITY  
(ORB OPS, CREW SYS)

MEAL CLEANUP/STORAGE  
(CUE CARD)

Update: CRT TIMER SETUP PAD  
in NOMINAL DEORBIT PREP

CUR/PLI go to DEORBIT PREP at 8/00:30

QRS DEACTIVATION  
(PL OPS, QRS DEACT)

OSTA-3 DEACTIVATION  
(PL OPS, EXP DEACT)  
LEG DEACTIVATION  
(PL OPS, EXP DEACT)

Go to DEORBIT PREP at 8/00:50

UPDATE  
CRT TIMER  
SETUP PAD

IMU ALIGN LOG  
REOD ID:

-Y\_\_\_\_, -Z\_\_\_\_ ANG ERR \_\_\_\_  
          1      2      3

ANG:  
ΔX ( ) . . . ( ) . . . ( ) . . .  
ΔY ( ) . . . ( ) . . . ( ) . . .  
ΔZ ( ) . . . ( ) . . . ( ) . . .  
EXECUTION TIME:  
\_ / \_ : \_ : \_

DAP BOOK



DAP A CONFIGURATIONS

	A1*	A2	A3	A4	A5	A6	A7
<u>TRANSLATION</u>							
PULSE ft/sec	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<u>ROTATION</u>							
DSC RT							
NORM °/sec	0.200	0.400	0.200	0.200	0.200	0.200	0.200
VERN °/sec	0.200	0.400	0.200	0.008	0.200	0.200	0.200
PULSE							
NORM °/sec	0.10	0.10	0.30	0.10	0.10	0.10	0.10
VERN °/sec	0.010	0.010	0.010	0.010	0.050	0.010	0.010
COMP							
NORM °/sec	.00	.00	.00	.00	.00	.00	.00
VERN °/sec	.000	.000	.000	.000	.000	.000	.000
<u>DEADBAND</u>							
ATT							
NORM (deg)	5.00	1.00	5.00	1.00	5.00	5.00	2.00
VERN (deg)	1.000	1.000	1.000	0.070	1.000	1.000	0.500
RATE							
NORM °/sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERN °/sec	.020	.020	.020	.010	.020	.020	.020
<u>JET OPT</u>							
P	1	1	3	1	1	3	1
Y	1	1	3	3	1	3	1
<u>CNTL ACCEL</u>							
	0	0	0	0	0	0	0

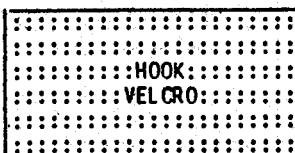
\*I-LOADED OPS-2 DAP CONFIGURATION

DAP B CONFIGURATIONS

	B1*	B2	B3	B4	B5	B6	B7	B8	B9	B10
<u>TRANSLATION</u>										
PULSE ft/sec	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
<u>ROTATION</u>										
DSC RT										
NORM °/sec	0.500	0.200	0.200	0.200	0.200	0.200	1.000	0.100	0.100	0.100
VERN °/sec	0.200	0.200	0.200	0.008	0.016	0.016	1.000	0.150	0.008	0.150
PULSE										
NORM °/sec	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
VERN °/sec	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
COMP										
NORM °/sec	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
VERN °/sec	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
<u>DEADBAND</u>										
ATT										
NORM (deg)	3.00	3.00	3.00	0.30	3.00	1.00	0.50	3.00	3.00	3.00
VERN (deg)	1.000	1.000	1.000	0.100	0.033	0.100	0.500	1.000	0.500	1.000
RATE										
NORM °/sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERN °/sec	.020	.020	.020	.010	.020	.020	.050	0.1	.010	0.10
<u>JET OPT</u>										
P	1	3	1	1	3	3	1	3	3	3
Y	1	3	1	3	3	3	1	3	3	3
<u>CNTL ACCEL</u>										
	0	0	0	0	0	0	0	2	2	1

\*I-LOADED OPS-2 DAP CONFIGURATION

# DAP BOOK



41-G/O/BAS

41-G/O/BAS

UNIV PTG	
TGT ID = 1	Orbiting Vehicle
= 2	Earth ctr
= 3	Earth tgt
	Input LAT ( $\pm 90$ )
	LON ( $\pm 180$ , + = East)
	ALT ( $\pm 99.99$ nm)
= 4	Sun ctr
= 5	Celestial tgt
	Input RA (0-359.99)
	DEC ( $\pm 90$ )
= 11-110	Nav Stars
<hr/>	
BODY VECT = 1	+X*
= 2	-X*
= 3	-Z*
= 4	PTC ( $\sim 2^\circ$ below +X)*
= 5	Optional
	Input P (0-359.99)
	Y (270-359.99, 0-90)
* input OM +	OM (0-359.99)
<hr/>	
MON AXIS = 1	+X
2	-X

G20 DAP CONFIG			
CNTL ACCEL = 0	Orbiter alone	JET OPT = 1	Normal
= 1	ERBS Contingency Park	= 2	Nose only
= 2	ERBS Nominal Release	= 3	Tail only
= 3	ERBS Midbay 2		
= 4	ERBS Midbay 3		

<u>DAP</u>	<u>PURPOSE</u>
A1	- NOMINAL
	-ZLV
	IMU ALIGN
	TAIL ONLY CONTROL
	BACKOUT
	PRE/POST PAM DEPLOY
	OMS BURN
	TAIL-TO-SUN
	LOSS OF VERN
A2	- PTC
A3	- RCS HOT FIRE
A4	- GG
A5	- IMU ROLL
A6	- LOSS OF VERN
	(TAIL ONLY)
A7	- ERBS DEPLOY

- 41-G/O/BAS

A1

DAP A1

A1

PURPOSE:						TRANSLATION
-ZLV		<u>0.1</u>	<u>0</u>		1	PULSE
IMU ALIGN						
TAIL ONLY CONTROL BACKOUT						ROTATION
PRE/POST PAM DEPLOY		<u>0.2</u>	<u>0</u>	<u>0</u>	2	DSC RT NORM
OMS BURN		<u>0.2</u>	<u>0</u>	<u>0</u>	3	VERN
TAIL-TO-SUN		<u>0.1</u>	<u>0</u>		4	PULSE NORM
LOSS OF VERN		<u>0.0</u>	<u>1</u>	<u>0</u>	5	VERN
(NOSE & TAIL)		<u>0.0</u>	<u>0</u>	<u>0</u>	6	COMP NORM
		<u>0.0</u>	<u>0</u>	<u>0</u>	7	VERN
						DEADBAND
		<u>5.0</u>	<u>0</u>		8	ATT NORM
		<u>1.0</u>	<u>0</u>	<u>0</u>	9	VERN
		<u>0.2</u>	<u>0</u>		10	RATE NORM
		<u>0.2</u>	<u>0</u>		11	VERN
					12	JET OPT P
					13	Y
		<u>0</u>			14	CNTL ACCEL

- 41-G/O/BAS

- 41-G/O/BAS

A2











+ + +

B1

DAP B2

PURPOSE:

LOSS OF VERN  
(TAIL ONLY)

B2

TRANSLATION PULSE	15	0.0	2
ROTATION DSC RT NORM	16	0.2	0 0
VERN	17	0.2	0 0
PULSE NORM	18	0.0	4
VERN	19	0.0	2
COMP NORM	20	0.0	0
VERN	21	0.0	0
DEADBAND ATT NORM	22	3.0	0
VERN	23	1.0	0 0
RATE NORM	24	0.2	0
VERN	25	0.2	0
JET OPT P	26		3
Y	27		3
CNTL ACCEL	28		0

41-G/O/BAS

41-G/O/BAS

+ + +

B3

+ + +

B2

DAP B3

PURPOSE:

LOSS OF VERN  
(NOSE & TAIL)  
GG MNVR

B3

TRANSLATION PULSE	15	0.0	2
ROTATION DSC RT NORM	16	0.2	0 0
VERN	17	0.2	0 0
PULSE NORM	18	0.0	4
VERN	19	0.0	2
COMP NORM	20	0.0	0
VERN	21	0.0	0
DEADBAND ATT NORM	22	3.0	0
VERN	23	1.0	0 0
RATE NORM	24	0.2	0
VERN	25	0.2	0
JET OPT P	26		1
Y	27		1
CNTL ACCEL	28		0

41-G/O/BAS

41-G/O/BAS

+ + +

B4

B3

DAP B4

PURPOSE:

PAM DEPLOY  
FRISBEE DEPLOY

B4

TRANSLATION				
PULSE	15		<u>0.0</u>	<u>2</u>
ROTATION				
DSC RT	NORM	16	0.2	0 0
	VERN	17	<u>0.0</u>	<u>0 8</u>
PULSE	NORM	18	0.0	0 4
	VERN	19	<u>0.0</u>	<u>0 2</u>
COMP	NORM	20		0 0
	VERN	21	<u>.0</u>	<u>0 0</u>
DEADBAND				
ATT	NORM	22	0.3	0
	VERN	23	<u>0.1</u>	<u>0 0</u>
RATE				
	NORM	24	0.2	0
	VERN	25	<u>0.1</u>	<u>0</u>
JET OPT				
	P	26		1
	Y	27		<u>3</u>
CNTL ACCEL		28		<u>0</u>

- 41-G/O/BAS

- 41-G/O/BAS

B5

B4

DAP B5

PURPOSE:

COAS CAL

B5

TRANSLATION				
PULSE	15		<u>0.0</u>	<u>2</u>
ROTATION				
DSC RT	NORM	16	0.2	0 0
	VERN	17	<u>0.0</u>	<u>1 6</u>
PULSE	NORM	18	0.0	0 4
	VERN	19	<u>0.0</u>	<u>0 2</u>
COMP	NORM	20		0 0
	VERN	21	<u>.0</u>	<u>0 0</u>
DEADBAND				
ATT	NORM	22	3.0	0
	VERN	23	<u>0.0</u>	<u>3 3</u>
RATE				
	NORM	24	0.2	0
	VERN	25	<u>0.2</u>	<u>0</u>
JET OPT				
	P	26		3
	Y	27		<u>3</u>
CNTL ACCEL		28		<u>0</u>

- 41-G/O/BAS

- 41-G/O/BAS

B6

B5

DAP B6

PURPOSE:

SIR-B DATA TAKES

41-G/O/BAS

B6

DAP B7

PURPOSE:

SIR-B SPOTLIGHT

41-G/O/BAS

TRANSLATION  
PULSE

15 0.0 2

ROTATION

DSC RT	NORM	16	0.2	0	0
	VERN	17	0.0	1	6
PULSE	NORM	18	0.0	4	
	VERN	19	0.0	0	2
COMP	NORM	20	.0	0	0
	VERN	21	.0	0	0

DEADBAND

ATT	NORM	22	1.0	0	
	VERN	23	0.1	0	0

RATE	NORM	24	0.2	0	
	VERN	25	0.2	0	

JET OPT	P	26		3	
	Y	27		3	

CNTL ACCEL 28 0

41-G/O/BAS

B7

TRANSLATION  
PULSE

15 0.0 2

ROTATION

DSC RT	NORM	16	1.0	0	0
	VERN	17	1.0	0	0
PULSE	NORM	18	0.0	4	
	VERN	19	0.0	0	2
COMP	NORM	20	.0	0	0
	VERN	21	.0	0	0

DEADBAND

ATT	NORM	22	0.5	0	
	VERN	23	0.5	0	0

RATE	NORM	24	0.2	0	
	VERN	25	0.5	0	

JET OPT	P	26		1	
	Y	27		1	

CNTL ACCEL 28 0

41-G/O/BAS

B8

+ + + +

B7

DAP B8

PURPOSE:  
ERBS UNBERTH

B8

TRANSLATION				
PULSE	15		<u>0.0</u>	<u>2</u>
ROTATION				
DSC RT	NORM 16		0.1	0 0
	VERN 17		<u>0.1</u>	<u>5 0</u>
PULSE	NORM 18		<u>0.0</u>	<u>4</u>
	VERN 19		<u>0.0</u>	<u>2</u>
COMP	NORM 20		<u>0.0</u>	<u>0</u>
	VERN 21		<u>0.0</u>	<u>0</u>
DEADBAND				
ATT	NORM 22		3.0	0
	VERN 23		<u>1.0</u>	<u>0 0</u>
RATE	NORM 24		0.2	0
	VERN 25		<u>1.0</u>	<u>0</u>
JET OPT	P 26			<u>3</u>
	Y 27			<u>3</u>
CNTL ACCEL	28			<u>2</u>

- 41-G/O/BAS

- 41-G/O/FIN

+ + + +

B9

B8

DAP B9

PURPOSE:  
ERBS RMS

B9

TRANSLATION				
PULSE	15		<u>0.0</u>	<u>2</u>
ROTATION				
DSC RT	NORM 16		0.1	0 0
	VERN 17		<u>0.0</u>	<u>0 8</u>
PULSE	NORM 18		<u>0.0</u>	<u>4</u>
	VERN 19		<u>0.0</u>	<u>2</u>
COMP	NORM 20		<u>0.0</u>	<u>0</u>
	VERN 21		<u>0.0</u>	<u>0</u>
DEADBAND				
ATT	NORM 22		3.0	0
	VERN 23		<u>0.5</u>	<u>0 0</u>
RATE	NORM 24		0.2	0
	VERN 25		<u>0.1</u>	<u>0</u>
JET OPT	P 26			<u>3</u>
	Y 27			<u>3</u>
CNTL ACCEL	28			<u>2</u>

- 41-G/O/BAS

- 41-G/O/FIN

+ + + +

B10

B9

DAP B10

PURPOSE:

ERBS CONTINGENCY PARK

41-G/O/FIN

B10

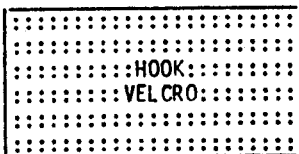
41-G/O/FIN

B10

TRANSLATION				
PULSE		15	<u>0.0 2</u>	
ROTATION				
DSC RT	NORM	16	<u>0.1 0 0</u>	
	VERN	17	<u>0.1 5 0</u>	
PULSE	NORM	18	<u>0.0 0 4</u>	
	VERN	19	<u>0.0 0 2</u>	
COMP	NORM	20	<u>0.0 0 0</u>	
	VERN	21	<u>.0 0 0</u>	
DEADBAND				
ATT	NORM	22	<u>3.0 0</u>	
	VERN	23	<u>1.0 0 0</u>	
RATE	NORM	24	<u>0.2 0</u>	
	VERN	25	<u>1.0 0 0</u>	
JET OPT	P	26	<u>3</u>	
	Y	27	<u>2</u>	
CNTL ACCEL		28	<u>1</u>	

41-G/O/FIN

TOP  
BACK COVER 'DAP BOOK'



41-G/O/BAS



41-G/O/BAS

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**ATTITUDE TIMELINE**

**ATTITUDE  
TIMELINE**



Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 0/01:10:00	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
2 0/03:50:00 04:04:41	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 102 φ 116	STAR PR A1 COAS: 16 LOS - 4:34	IMU ALIGN COAS CAL
3 0/04:30:00 41:12	MNVR R+341.00 P+169.00 Y+ 11.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 24 φ 343		ERBS NADIR TDRS ATT
4 0/05:10:00 22:19	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
5 0/07:10:00 25:00	TRK TGT=2 BV=5(270.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 180	LVLH R+ 0 P+ 0 Y+ 0	ERBS DEPLOY ATT
6 0/08:55:00 09:10:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
7 0/11:35:00 44:51	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 95 φ 152	STAR PAIR A2	IMU ALIGN
8 0/11:50:00 12:03:35 DAP B6	TRK TGT=2 BV=5( 90.00, 75.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 75	LVLH R+105 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
9 0/12:23:00 29:15 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
10 0/21:39:00 54:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
11 0/23:49:00 59:36	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 102 φ 116	STAR PAIR A1	IMU ALIGN
12 1/00:09:00 23:11 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 1/01:10:00 17:31	TRK TGT=2 BV=5( 98.00, 0.00) OM= 90.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 98 0 360	LVLH R+270 P+ 90 Y+278	-YVV OGLOW ATT
2 1/01:55:00 02:02:31 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
3 1/05:05:00 11:56	MNVR R+225.90 P+ 97.60 Y+ 18.70 PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 92 0 131	DV = 75 fps DT = 1:25	ORBIT ADJ #1 ATT
4 1/05:45:00 59:48	MNVR R+135.10 P+279.00 Y+339.10 PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 89 0 49	DV = 74 fps DT = 1:24	RECIRC ATT
5 1/06:30:00 36:02 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
6 1/07:58:00 08:13:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
7 1/08:52:00 09:01:10	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 94 0 153	STAR PAIR A2	IMU ALIGN
8 1/09:10:00 23:25 DAP B6	TRK TGT=2 BV=5( 90.00, 75.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 75	LVLH R+105 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
9 1/09:40:00 46:15 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
10 1/10:30:00 39:04	MNVR R+184.30 P+175.60 Y+315.40	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 42 0 246	STARFIELD AOS - LOS 10:39-10:51	LFC STELLAR CAL
11 1/10:55:00 11:09:51 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
12 1/11:43:00 49:40 DAP B6	TRK TGT=2 BV=5( 90.00, 80.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 80	LVLH R+100 P+ 0 Y+ 0	BIASED +YLV NOSE FWD

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 1/11:56:00 12:02:40 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
2 1/22:22:00 36:43	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 103 0 116	STAR PAIR A1	IMU ALIGN
3 1/22:42:00 56:04 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
4 2/00:05:00 19:29	MNVR R+185.60 P+338.60 Y+314.10 PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 123 0 47	DV = 48 fps DT = 54 s	ORBIT ADJ #2
5 2/00:50:00 01:04:56	MNVR R+173.30 P+159.70 Y+ 45.80 PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 57 0 133	DV = 48 fps DT = 53 s	RECIRC ATT
6 2/01:42:00 51:50 DAP B6	TRK TGT=2 BV=5( 90.00, 80.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 80	LVLH R+100 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
7 2/02:15:00 21:40 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
8 2/03:00:00 07:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
9 2/03:17:00 24:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
10 2/03:32:00 39:35 DAP B6	TRK TGT=2 BV=5( 0.00, 51.00) OM=113.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 51 0 90	LVLH R+105 P+319 Y+ 18	SIR-B SQUINT
11 2/03:52:00 55:51 DAP B6	TRK TGT=2 BV=5(270.00, 85.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 95	LVLH R+ 85 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
12 2/04:24:00 39:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 2/06:24:00 38:58 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.50	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 1	-ZLV NOSE FWD -.5 DEG YAW
2 2/06:56:00 07:10:58 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
3 2/07:49:00 08:04:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
4 2/09:05:00 12:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
5 2/09:55:00 10:02:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
6 2/10:30:00 42:26	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 93 φ 153	STAR PAIR A2	IMU ALIGN
7 2/10:50:00 11:02:19 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
8 2/22:08:00 23:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
9 2/23:35:00 44:17	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 104 φ 116	STAR PAIR A1	IMU ALIGN
10 2/23:55:00 3/00:08:39 DAP B6	TRK TGT=2 BV=5( 90.00, 75.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 75	LVLH R+285 P+180 Y+ 0	BIASED +YLV TAIL FWD
11 3/00:24:00 30:15 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
12 3/00:52:00	MNVR TO BURN ATT PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02			TRIM BURN MNVR

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 3/01:29:00 44:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
2 3/01:56:00 02:03:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
3 3/02:59:00 03:06:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
4 3/03:13:00 20:30 DAP B6	TRK TGT=2 BV=5(180.00, 74.00) OM=254.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 106 0 90	LVLH R+ 95 P+ 17 Y+345	SIR-B SQUINT
5 3/03:32:00 33:53 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
6 3/04:07:00 08:15 DAP B6	TRK TGT=2 BV=5( 90.00, 75.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 75	LVLH R+105 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
7 3/04:28:00 34:15 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
8 3/05:10:00 14:02	TRK TGT=4 BV=5( 0.00, 270.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 90 0 270	INRTL R+277 P+286 Y+312	-YSI SPEAM
9 3/05:44:00 54:57 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=179.50	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+360	-ZLV NOSE FWD + .5 DEG YAW
10 3/06:50:00 50:31 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	B6 AUTO VERN	DSC 0.016 DB AT 0.10 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
11 3/08:45:00 52:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
12 3/09:38:00 45:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 3/09:59:00 10:07:43	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 92 φ 153	STAR PAIR A2	IMU ALIGN
2 3/10:19:00 32:43 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
3 3/22:37:00 44:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
4 3/23:20:00 28:47	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 105 φ 116	STAR PAIR A1	IMU ALIGN
5 3/23:40:00 46:23 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
6 4/00:37:00	MNVR TO BURN ATT PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02			TRIM BURN MNVR
7 4/01:10:00 25:00 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 90	LVLH R+270 P+180 Y+ 0	+YLV TAIL FWD
8 4/01:37:00 44:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
9 4/02:43:00 50:05 DAP B6	TRK TGT=2 BV=5( 90.00, 85.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 85	LVLH R+275 P+180 Y+ 0	BIASED +YLV TAIL FWD
10 4/02:58:00 03:00:51 DAP B6	TRK TGT=2 BV=5(335.00, 68.00) OM=270.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 70 φ 100	LVLH R+270 P+202 Y+335	SIR-B SQUINT
11 4/03:15:00 23:16 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
12 4/04:15:00 17:30	TRK TGT=2 BV=5( 90.00, 330.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 330	LVLH R+ 30 P+180 Y+ 0	EVA TDRS ATT

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 4/05:50:00 06:05:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
2 4/08:10:00 16:15 DAP B6	TRK TGT=2 BV=5( 90.00, 75.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 75	LVLH R+105 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
3 4/09:21:00 27:15 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
4 4/09:43:00 51:34	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 91 0 153	STAR PAIR A2	IMU ALIGN
5 4/10:03:00 16:40 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
6 4/21:46:00 22:01:00 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 90	LVLH R+270 P+180 Y+ 0	+YLV TAIL FWD
7 4/22:20:00 27:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
8 4/23:05:00 15:22	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 106 0 115	STAR PAIR A1	IMU ALIGN
9 4/23:25:00 38:04 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
10 5/00:24:00	MNVR TO BURN ATT PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02			TRIM BURN MNVR
11 5/00:53:00 01:08:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
12 5/01:17:00 23:40 DAP B6	TRK TGT=2 BV=5( 90.00, 80.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 80	LVLH R+100 P+ 0 Y+ 0	BIASED +YLV NOSE FWD

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 5/02:20:00 26:40 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
2 5/02:39:00 46:30 DAP B6	TRK TGT=2 BV=5( 0.00, 70.00) OM=108.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 70 0 90	LVLH R+ 96 P+339 Y+ 17	SIR-B SQUINT
3 5/02:59:00 03:06:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
4 5/03:31:00 46:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
5 5/05:32:00 47:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
6 5/06:14:00 29:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
7 5/07:06:00 21:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
8 5/07:49:00 55:15 DAP B6	TRK TGT=2 BV=5( 90.00, 75.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 75	LVLH R+105 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
9 5/09:08:00 14:15 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
10 5/09:30:00 39:13	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 90 0 153	STAR PAIR A2	IMU ALIGN
11 5/09:45:00 58:10 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
12 5/21:34:00 49:00 DAP B6	TRK TGT=2 BV=5( 90.00, 85.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 85	LVLH R+275 P+180 Y+ 0	BIASED +YLV TAIL FWD



## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 5/22:02:00 09:05 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
2 5/22:46:00 55:46	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 107 0 115	STAR PAIR A1	IMU ALIGN
3 5/23:05:00 11:08 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
4 5/23:36:00 43:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
5 6/00:06:00	MNVR TO BURN ATT PER REAL-TIME PAD	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02			TRIM BURN MNVR
6 6/00:37:00 52:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
7 6/02:23:00 28:00	TRK TGT=2 BV=5( 30.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 30 0 0	LVLH R+ 0 P+240 Y+ 0	STARE START ATT
8 6/02:29:00	ROT BV=5( 0.00, 270.00)	B7 AUTO NORM	DSC 1.000 DB AT 0.50 DB RT 0.20		ROT R+180 START P+316 ATT Y+303	STARE ROTATION
9 6/02:29:30	SELECT VERNIER JETS	B7 AUTO VERN	DSC 1.000 DB AT 0.50 DB RT 0.05			STARE ROTATION
10 6/02:31:00	SELECT NORMAL JETS	B7 AUTO NORM	DSC 1.000 DB AT 0.50 DB RT 0.20			STARE ROTATION
11 6/02:31:00	STOP	B7 AUTO NORM	DSC 1.000 DB AT 0.50 DB RT 0.20	SUN 0 128 0 140	INRTL R+233 P+ 64 Y+ 25	STOP ROTATION
12 6/02:35:00 37:58 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 6/03:46:00 56:13	MNVR R+ 0.00 P+236.00 Y+317.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 53 φ 148		TDRS CANEX CONF
2 6/04:21:00 31:36	TRK TGT=4 BV=5( 0.00, 270.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 90 φ 270	INRTL R+280 P+292 Y+305	-YSI SPEARM
3 6/04:56:00 05:07:19 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
4 6/06:00:00 07:30	TRK TGT=2 BV=5( 94.00, 0.00) OM= 90.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 94 φ 360	LVLH R+270 P+ 90 Y+274	-YVV OGLow ATT
5 6/06:50:00 57:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
6 6/07:31:00 37:15 DAP B6	TRK TGT=2 BV=5( 90.00, 75.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 75	LVLH R+105 P+ 0 Y+ 0	BIASED +YLV NOSE FWD
7 6/08:50:00 56:15 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
8 6/09:10:00 18:18	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 89 φ 153	STAR PAIR A2	IMU ALIGN
9 6/09:28:00 41:02 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
10 6/21:45:00 52:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
11 6/22:30:00 38:44	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 108 φ 115	STAR PAIR A1	IMU ALIGN
12 6/22:44:00 58:46 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 7/00:00:00 07:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 90	LVLH R+270 P+180 Y+ 0	+YLV TAIL FWD
2 7/00:25:00 35:44	MNVR R+ 84.00 P+190.00 Y+ 30.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 36 φ 193		TDRS ATT PRESS CONF
3 7/01:25:00 29:12 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
4 7/04:18:00 28:00	TRK TGT=2 BV=3( 90.00, 0.00) OM=170.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+180 P+ 0 Y+300	360 DEG -YAW
5 7/04:28:00 38:00	TRK TGT=2 BV=3( 90.00, 0.00) OM=290.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+180 P+ 0 Y+ 60	360 DEG -YAW
6 7/04:38:00 48:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD (END OF 360 DEG -YAW)
7 7/04:58:00 05:13:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
8 7/05:41:00 56:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+ 0 P+180 Y+ 0	-ZLV TAIL FWD
9 7/06:16:00 31:00 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
10 7/07:17:00 24:30 DAP B6	TRK TGT=2 BV=5( 0.00, 90.00) OM= 0.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 90	LVLH R+ 90 P+ 0 Y+ 0	+YLV NOSE FWD
11 7/08:10:00 17:30 DAP B6	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH 0 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
12 7/11:50:00 57:58	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN 0 88 φ 153	STAR PAIR A2	IMU ALIGN

## Attitude Timeline

MET	MNVR OPTION		DAP	E/S	REMARKS	EVENT
1 7/12:10:00 23:20	TRK TGT=2 BV=3( 90.00, 0.00) OM=180.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	EARTH θ 90 φ 0	LVLH R+180 P+ 0 Y+ 0	-ZLV NOSE FWD
2 7/22:20:00 33:52	MNVR R+243.00 P+ 86.80 Y+ 13.70	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 109 φ 115	STAR PAIR A1	IMU ALIGN
3 7/22:40:00 47:54	TRK TGT=4 BV=5(184.00, 0.00) OM=273.00	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 176 φ 174	INRTL R+325 P+ 12 Y+ 9	-XSI
4 8/01:18:00 27:26	MNVR R+ 33.00 P+284.70 Y+341.60	A1 AUTO VERN	DSC 0.200 DB AT 1.00 DB RT 0.02	SUN θ 88 φ 153	-Y:16 -Z:37	IMU ALIGN
5 8/01:30:00 32:59	MNVR R+268.70 P+161.10 Y+297.80	B1 AUTO NORM	DSC 0.500 DB AT 3.00 DB RT 0.20	SUN θ 61 φ 142	-Y:13 -Z:26	IMU VERIF
6 8/02:08:59 14:02	MNVR R+139.80 P+256.00 Y+315.20	B1 AUTO NORM	DSC 0.500 DB AT 3.00 DB RT 0.20	SUN θ 65 φ 23		DEORBIT BURN ATT
7 8/04:27:59	OMS IGNITION	* AUTO *	DSC 0.500 DB AT 3.50 DB RT 0.30			DEORBIT BURN

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**CONSUMABLES CURVES (TBS)**

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FLIGHT DATA FILE  
CORE DISTRIBUTION  
08/06/84

JSC

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DG44/Comm & Attached P/L (2)  
DH4/DFD MGR  
    FAO  
    T/L  
    Flt. Act Br (16)  
DH6/Branch Off. (3)  
EC/Chief  
EC2/Support (4)  
EH13/Chief  
    Support  
EH2/Head  
EH3/Chief  
EH4/Chief  
EH5/Chief  
    Support  
EN43/Head  
EN44/Head  
ES5/Support  
ET/Support  
EX/DFD CPCB Rep.  
FE42/Head  
FM2/Consum Analysis Sect.  
FM83/Space Nav. Sect. (2)  
FM85/Ground Nav. Sect.  
JM2/Technical Library (3)  
JM24/COD Pub Center  
MD/Manager  
MD3/Support  
MF/GFE Project Office  
    Support (RIC)  
MP2/CPCB Rep.  
NS/Safety Div.  
SD2/Surgeon  
    Support  
SM/SMDD MOM (3)  
ZR1/MMC Library (2)  
ZR2/Mission Support (2)

Boeing

HS-04/D. Bennett

Dryden Flight Research Facility

OS/J. L. Kolf

NASA Headquarters  
MO/C. Lee  
TX-1/E. A. West  
MOE/R. D. McCafferty (2)

Kennedy Space Center  
SE-PEO/J. A. Thomas  
SO-A/Astronaut Office (2)  
ZK-25/Rockwell Tech Data  
ZK-56/A. Grenville

Marshall Space Flight Center  
EE45/R. A. Marmann  
PMIC/TBE R. Cramblit  
    (Bldg 4708)  
MDTSCO, Bldg 4666,  
DCCL. White  
SA82/R. R. Pride

Goddard Space Flight Center  
405/J. B. Hartmann

NASA SSPRO - Palmdale  
MR5/R. R. Frazer  
PL14/H. Kuznicki

McDonnell Douglas - Houston  
A2/L. T. Guderian  
A3/G. Venables  
D3/M. Pipher (2)  
D4/H. Stegall  
    R. DeVall

Charles Stark Draper Lab  
MS23/R. A. Larson (2)

IBM - Houston  
MC63/A. J. Sava  
    T&O Library  
MC8212/Verification Library  
MC9186/Project Office Library  
MC6251/Wilson-Lib.

Lockheed - Houston  
B12/M. Martin  
B12/E. M. Bains  
C22/D. Welch

Singer-Link - Houston  
SMS Data Library

Honeywell Inc. Avionic Division  
13350 U.S. Highway 19  
Clearwater, FL 33546  
#818-5/J. R. Peterson

Martin-Marietta Corp. - Denver  
- GOLDENROD -  
G6245/Library  
G6495/J. Ferguson  
    G. Miller  
G6496/J. Barnes

Space Division  
Worldway Postal Center  
P.O. Box 92960  
Los Angeles, CA 90009  
SD-YOM/DFD (5)  
YOO/Data Mgr. (5)  
SD-YUI/J. Laur  
CFCT/M. Bangan

Space Communications Co.  
P.O. Box 235  
Las Cruces, NM 88001  
Attn: G. Harris

AFSCF/VOS  
P.O. Box 3430  
Sunnyvale, CA 94086  
Maj H. E. Haliasz (10)

TRW  
1 Space Park  
Bldg M2/Rm 2375  
Redondo Beach, CA 90278  
J. M. Payne

6555th ASTG  
Kennedy Space Center, FL  
SP-AF/Col. O'Connor

ARI/Houston  
17629 E. Camino Real  
Suite 20B  
Houston, TX 77058  
L. Armstrong

Applied Research Inc.  
3930 Freedom Circle  
Santa Clara, CA 95054  
P. Howland

LAB For ATMOS & SPACE PHYS.  
5525 Central Ave.  
Boulder, CO 80301  
ATTN: Alan Stern

41-G  
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DELTA DISTRIBUTION  
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AC/Associate Director  
AP/Dep. Director  
AP3/Support (4)  
BARR/Director  
DA/Director (2)  
DAB/Flt. Tech. (2)  
DF22/Head  
DF24/Head  
DF4/Chief  
DF6/GNC (4)  
    Chief  
DF7/Chief  
    Environ. Sect. (2)  
    Elect. Sect. (2)  
DG/Chief  
    Dep. Chief  
    Tech. Assist.  
    MDTSCO  
DG3/Chief  
    Comm & Attached (5)  
    Crew Sys. (10)  
    Orbiter Sys (4)  
DG6/ASC-Ent. Sect. (12)  
    Detached-Payload Sect. (7)  
    Orb.-Computer Sect. (12)  
DH/Chief  
    USAF (6)  
DH32/Flt. Dynamics (8)  
DH33/A&E Proc (3)  
DH4/Bookmanager (50)  
DH6/Branch Office (12)  
EB/Support (2)  
EC/Assist. Chief  
    Assist. for Payloads  
EC2/EMU Anal. (3)  
    Support (2)  
EC3/Mgr.CFE Crew Provision(5)  
EC6/Chief  
EC12/Support  
EE2/Support (2)  
EE3/RCA Support  
EE4/Support  
EE8/Support (2)  
EF12/Support  
EF2/SAIL Oper. Branch  
EH13/Support (2)  
EH5/Support (2)  
EL25/Mission Analysis Div.  
EN3/Support (2)  
EN4/Chief  
ES12/Chief  
ES3/Sect. Head  
ES5/Support (3)  
EW3/Support (3)

EX4/Support (4)  
FA/Director  
    Assist. Director  
FD2/Support  
FE/Chief  
FM/Chief  
    Assist. Chief  
    Payloads & Adv. Tech Mgr.  
FM17/Support (2)  
FM2/Chief  
    Support (16)  
FM4/Chief  
    Support (5)  
FM5/Chief (2)  
FM8/Chief (6)  
    Support (6)  
    Intermetrics  
FR4/Support  
FS15/Support  
FS4/Support (2)  
FS45/Documentation  
JL/Chief (3)  
JL15/Support (6)  
LA/Program Mgr.  
    Dep. Mgr.  
LA3/Manager  
    Tech. Assist (3)  
LA5/Manager  
LA6/Manager  
LD/Support  
LE/Support  
LF/Support  
    Manager  
LJ/Support  
LM/Manager  
    Support (4)  
LN/Support (2)  
LP/Manager  
    Support (5)  
LT/Manager  
MD/Manager (1)  
ME/Manager (2)  
ME3/Manager  
MF/Manager (2)  
MG/Manager (2)  
MP/Manager (2)  
MP2/CPCB Rep (8)  
NS2/Chief  
SC5/Support  
SD3/Support  
    Mission Scientist  
SK/Manager, SSEOP  
SN3/Support  
WC2/Chief (2)  
WC6/Support  
ZR2/AFTEC  
ZR-1/Maj. T. Spiker (3)\*  
    Terry Tosh  
BARR/Support

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MGF-9/E. Harkleroad  
LF-6/R. Shafer  
LFD-10/J. W. McCulla  
OTI-O/R. Tucker  
EL-4/M. Settle  
    B. Shardt  
    G. F. Esenwein  
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    L. Demas  
EBM/H. Bielstein

McDonnell Douglas - Houston  
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    J. S. French  
C2/B. Howard  
C3/R. Corson  
D3/M. D. Pipher (3)  
E3/E. Taylor

Singer-Link - Houston  
K. Nelson

Kennedy Space Center  
CM-CIO-2A/W. R. Fletcher  
MDTSCO/B. C. Adams  
NWSI-D/Repository (45)  
EX-NTS/R. Buckley  
SE-GDS-21/W. Patrick  
SE-GDS-22/P. Puckett  
SE-MSD-11A. Velez  
SO-TOD/C. Henschel  
ZK-25/Rockwell Tech Data (14)

TRW - Houston  
C. Cooper  
L. Pieniazek

TRW - Greenbelt  
P.O. Box 385  
Greenbelt, MD 20770  
L. L. Champion (2)

White Sands Test Facility  
RD/R. Tillet

Charles Draper Laboratory  
555 Technology Square  
Cambridge, MA 02139  
J. Turnball

Dryden Flt. Research Facility  
OS/G. P. Layton

HQ NORAD/DOYY  
Cheyenne Mtn Complex,  
CO 80914 (2)



Hamilton Standard  
Windsor Locks, CT 06096  
1A204/R. C. Wilde  
1A-2-7/F. H. Greenwood (4)

Rockwell - Houston  
ZC01/(16)

Rockwell International STS  
12214 Lakewood Blvd.  
Downey, CA 90241  
O41-FA43/W. O. Ruffin (59)

AFFTC - Edwards AFB  
Air Force Flight Test Center  
6510 Test Wing/TEG

BALL Aerospace Division  
P.O. Box 1062  
Boulder, CO 80306  
JWF-4/R. Parizek

Ford Aerospace - Houston  
SISO-1A/Tech Lib (14)  
J. Schoen  
SISO-30B/G. Egan (2)  
SISO-30C/C. Capps(2)

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804.3/E. T. Lowe  
G. C. Wilson

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156-220/H. M. Harris  
183-701/C. Elachi (4)  
J. B. Cimino

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CP-SPO/W. R. Munsey

NASA LARC  
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364/W. E. Sivertson  
401A/H. G. Reichle  
J. Casas  
473/R. G. Wilson  
494/G. F. Bullock

SPAR Aerospace  
825 Caledonia Rd.  
Toronto, Canada M6B3X8  
C Jenkins (NASA) (3)\*

National Research Council of  
Canada  
Space Technology Program  
Office  
Bldg. M-60, Room B-21  
Montreal Road  
Ottawa, Ontario, Canada  
K1A 0R6  
Dr. K. H. Doetsch  
B. A. Aikenhead

Marshall Space Flt Center  
FA51/S. P. Saucier  
NA51/R. M. Hoodless

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