

Flight Data File Crew Activity Plan

STS 51-G

Mission Operations Directorate
Operations Division

Basic
February 25, 1985

<u>EVENT:</u>	<u>CDT</u>		
Launch	06:20	Thu	May 30
MORELOS Deploy	14:25	Thu	May 30
ARABSAT Deploy	08:43	Fri	May 31
TELSTAR Deploy	06:07	Sat	Jun 1
SPARTAN Deploy	10:48	Sun	Jun 2
SPARTAN Rendezvous	07:25	Tue	Jun 4
KSC Landing	06:36	Thu	Jun 6

NASA

National Aeronautics and
Space Administration

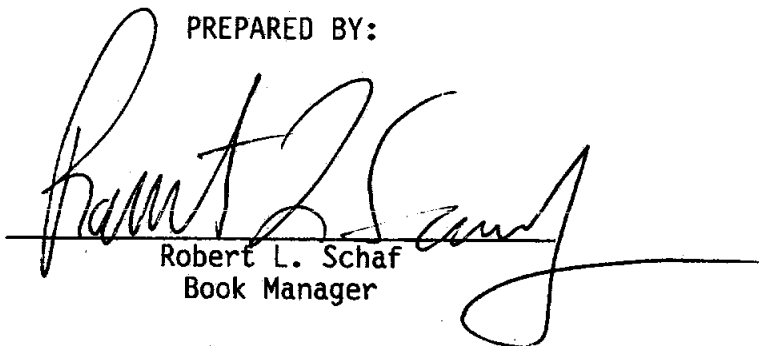
Lyndon B. Johnson Space Center
Houston, Texas

MISSION OPERATIONS DIRECTORATE


STS 51-G CREW ACTIVITY PLAN


BASIC
February 25, 1985


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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, Room 352, 713-483-2868.

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Incorporates 482
No: N/A

ACKNOWLEDGMENTS

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STS 51-G CREW ACTIVITY PLAN

LIST OF EFFECTIVE PAGES

BASIC 02/25/85

i.....	CAP/51-G/BAS	3-24.....	CAP/51-G/BAS
ii.....	CAP/51-G/BAS	3-25.....	CAP/51-G/BAS
iii.....	CAP/51-G/BAS	3-26.....	CAP/51-G/BAS
iv.....	CAP/51-G/BAS	3-27.....	CAP/51-G/BAS
v.....	CAP/51-G/BAS	3-28.....	CAP/51-G/BAS
vi.....	CAP/51-G/BAS	3-29.....	CAP/51-G/BAS
1-1.....	CAP/51-G/BAS	3-30.....	CAP/51-G/BAS
1-2.....	CAP/51-G/BAS	3-31.....	CAP/51-G/BAS
1-3.....	CAP/51-G/BAS	3-32.....	CAP/51-G/BAS
1-4.....	CAP/51-G/BAS	3-33.....	CAP/51-G/BAS
2-1.....	CAP/51-G/BAS	3-34.....	CAP/51-G/BAS
2-2.....	CAP/51-G/BAS	4-1.....	CAP/51-G/BAS
2-3.....	CAP/51-G/BAS	4-2.....	CAP/51-G/BAS
2-4.....	CAP/51-G/BAS	4A-1.....	CAP/51-G/BAS
2-5.....	CAP/51-G/BAS	4A-2.....	CAP/51-G/BAS
2-6.....	CAP/51-G/BAS	5-1.....	CAP/51-G/BAS
2-7.....	CAP/51-G/BAS	5-2.....	CAP/51-G/BAS
2-8.....	CAP/51-G/BAS	6-1.....	CAP/51-G/BAS
2-9.....	CAP/51-G/BAS	6-2.....	CAP/51-G/BAS
2-10.....	CAP/51-G/BAS	6-3.....	CAP/51-G/BAS
2-11.....	CAP/51-G/BAS	6-16.....	CAP/51-G/BAS
2-12.....	CAP/51-G/BAS	7-1.....	CAP/51-G/BAS
2-13.....	CAP/51-G/BAS	7-2.....	CAP/51-G/BAS
2-14.....	CAP/51-G/BAS		
2-15.....	CAP/51-G/BAS		
2-16.....	CAP/51-G/BAS		
3-1.....	CAP/51-G/BAS		
3-2.....	CAP/51-G/BAS		
3-3.....	CAP/51-G/BAS		
3-4.....	CAP/51-G/BAS		
3-5.....	CAP/51-G/BAS		
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3-12.....	CAP/51-G/BAS		
3-13.....	CAP/51-G/BAS		
3-14.....	CAP/51-G/BAS		
3-15.....	CAP/51-G/BAS		
3-16.....	CAP/51-G/BAS		
3-17.....	CAP/51-G/BAS		
3-18.....	CAP/51-G/BAS		
3-19.....	CAP/51-G/BAS		
3-20.....	CAP/51-G/BAS		
3-21.....	CAP/51-G/BAS		
3-22.....	CAP/51-G/BAS		
3-23.....	CAP/51-G/BAS		

STS 51-G CAP CUE CARDS

DAP Book Front Cover.....	6-4	CAP/51-G/O/BAS
UNIV PTG (Back of DAP Book Front Cover).....	6-4	CAP/51-G/O/BAS
DAP A TOC.....	6-5	CAP/51-G/O/BAS
DAP A1.....	6-5	CAP/51-G/O/BAS
A1.....	6-5	CAP/51-G/O/BAS
DAP A2.....	6-6	CAP/51-G/O/BAS
A2.....	6-6	CAP/51-G/O/BAS
DAP A3.....	6-6	CAP/51-G/O/BAS
A3.....	6-6	CAP/51-G/O/BAS
DAP A4.....	6-7	CAP/51-G/O/BAS
A4.....	6-7	CAP/51-G/O/BAS
DAP A5.....	6-7	CAP/51-G/O/BAS
A5.....	6-7	CAP/51-G/O/BAS
DAP A6.....	6-8	CAP/51-G/O/BAS
A6.....	6-8	CAP/51-G/O/BAS
DAP A7.....	6-8	CAP/51-G/O/BAS
A7.....	6-8	CAP/51-G/O/BAS
DAP A9.....	6-9	CAP/51-G/O/BAS
A9.....	6-9	CAP/51-G/O/BAS
DAP A10.....	6-9	CAP/51-G/O/BAS
A10.....	6-9	CAP/51-G/O/BAS
DAP A11.....	6-10	CAP/51-G/O/BAS
A11.....	6-10	CAP/51-G/O/BAS
(Blank).....	6-10	CAP/51-G/O/BAS
DAP B TOC.....	6-10	CAP/51-G/O/BAS
DAP B1.....	6-11	CAP/51-G/O/BAS
B1.....	6-11	CAP/51-G/O/BAS
DAP B2.....	6-11	CAP/51-G/O/BAS
B2.....	6-11	CAP/51-G/O/BAS
DAP B3.....	6-12	CAP/51-G/O/BAS
B3.....	6-12	CAP/51-G/O/BAS
DAP B4.....	6-12	CAP/51-G/O/BAS
B4.....	6-12	CAP/51-G/O/BAS
DAP B5.....	6-13	CAP/51-G/O/BAS
B5.....	6-13	CAP/51-G/O/BAS
DAP B6.....	6-13	CAP/51-G/O/BAS
B6.....	6-13	CAP/51-G/O/BAS
DAP B7.....	6-14	CAP/51-G/O/BAS
B7.....	6-14	CAP/51-G/O/BAS
DAP B8.....	6-14	CAP/51-G/O/BAS
B8.....	6-14	CAP/51-G/O/BAS
(Blank).....	6-15	CAP/51-G/O/BAS
DAP Book (Back Cover).....	6-15	CAP/51-G/O/BAS

CONTENTS

PAGE

INTRODUCTION..... v

STS 51-G OVERVIEW..... 1-1

SUMMARY TIMELINE..... 2-1

DETAILED TIMELINE..... 3-1

 FLT DAY 1..... 3-2

 FLT DAY 2..... 3-6

 FLT DAY 3..... 3-10

 FLT DAY 4..... 3-15

 FLT DAY 5..... 3-19

 FLT DAY 6..... 3-24

 FLT DAY 7..... 3-29

 FLT DAY 8..... 3-34

CONTINGENCY TIMELINES..... 4-1

 HIGH PRIORITY MISSION (TBS)..... 4A-1

CONSUMABLES CURVES (TBS)..... 5-1

STS 51-G DAP BOOK..... 6-1

STS 51-G ATTITUDE TIMELINE (TBS)..... 7-1

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INTRODUCTION

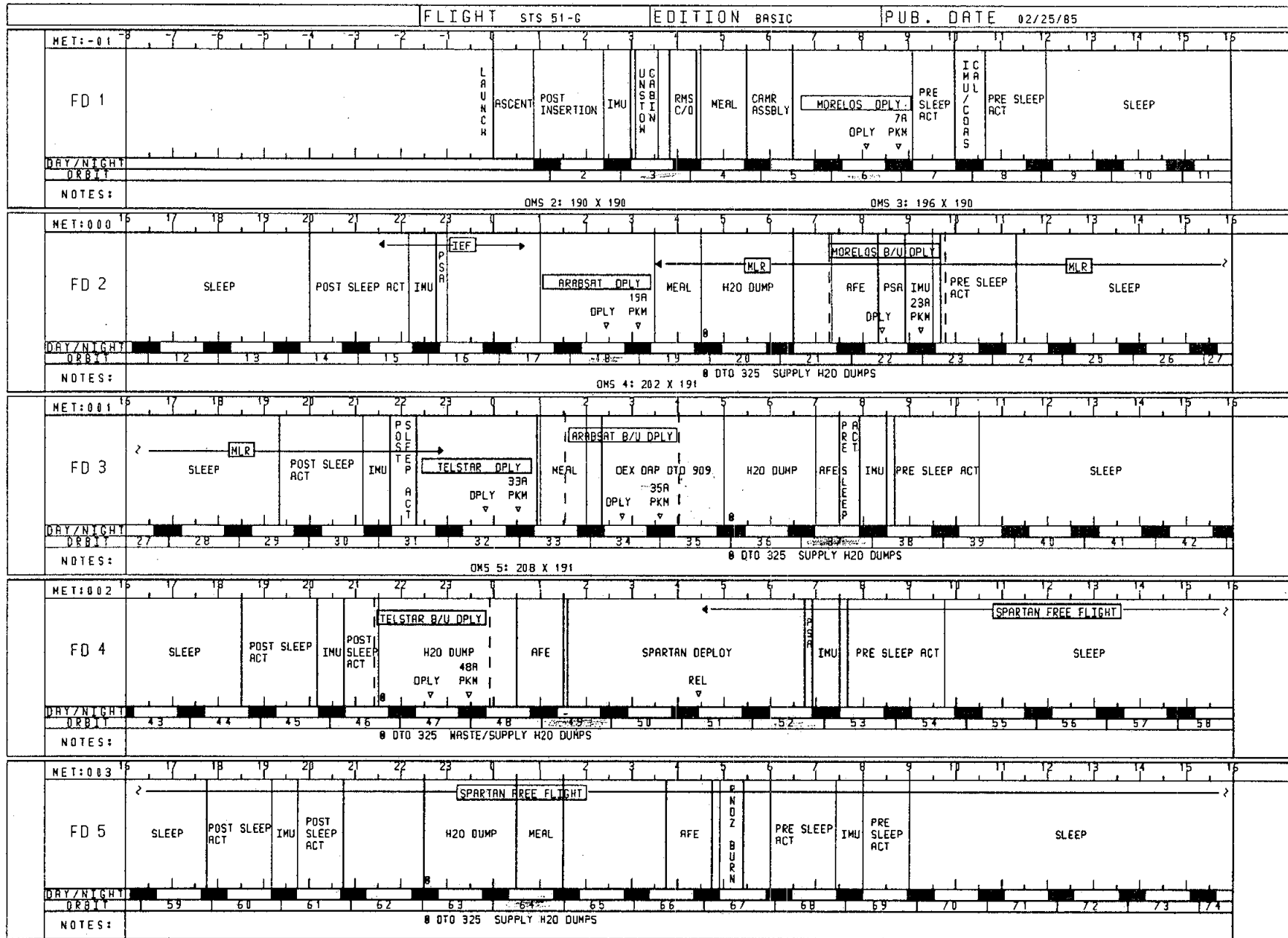
The STS 51-G Crew Activity Plan is the flight data file article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Rendezvous, Deorbit Prep, and Entry Checklists. The STS 51-G Rendezvous book contains all RMS procedures which are to be conducted during the rendezvous operational timelines. All other RMS procedures are in the PDRS OPS Checklist. For continuity, the entire flight is shown in the summary level timeline.

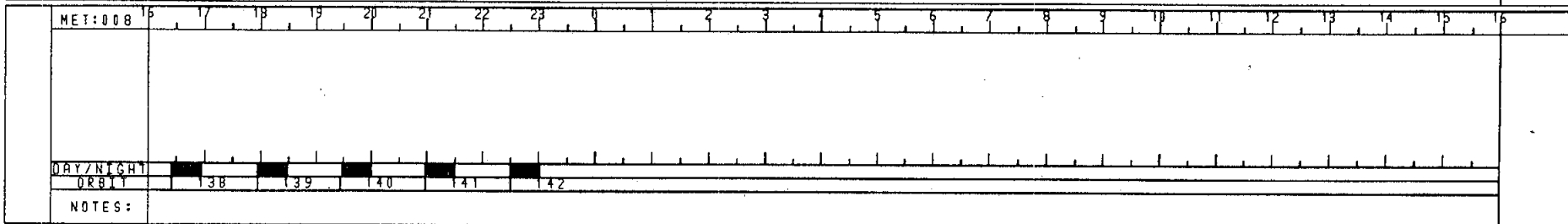
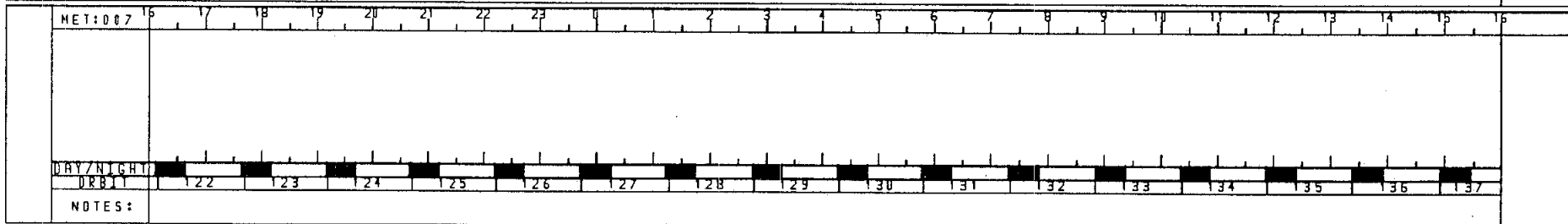
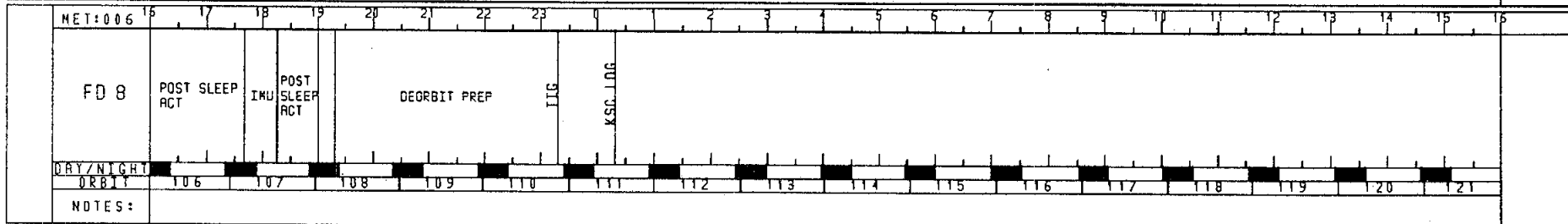
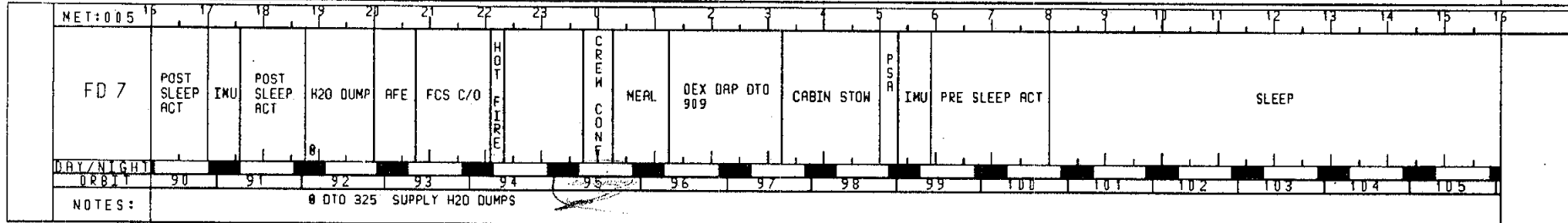
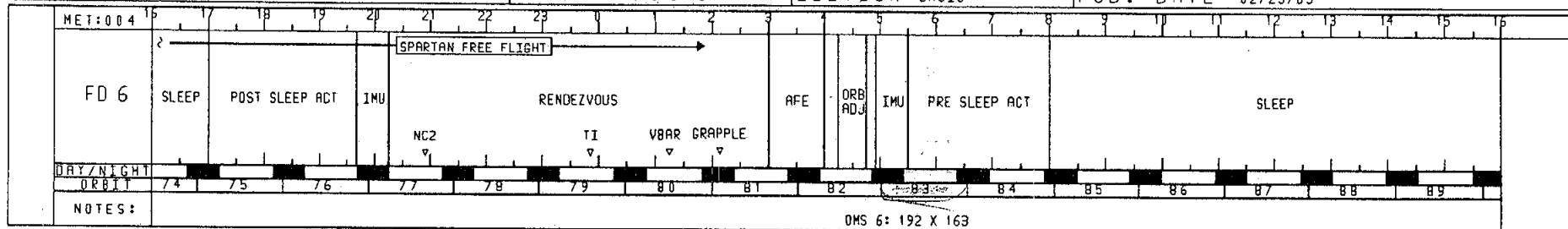
This on-orbit timeline satisfies the objectives specified in the Flight Definition and Requirements Directive and the requirements of the STS 51-G Flight Requirements Document.

The flight profile (Cycle 2 trajectory data) used for this Crew Activity Plan is for a launch date of May 30, 1985, at 11:20 GMT. Orbiter inertial attitudes are expressed relative to the Mean of 1950 (M50) reference frame.

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51-G
OVERVIEW

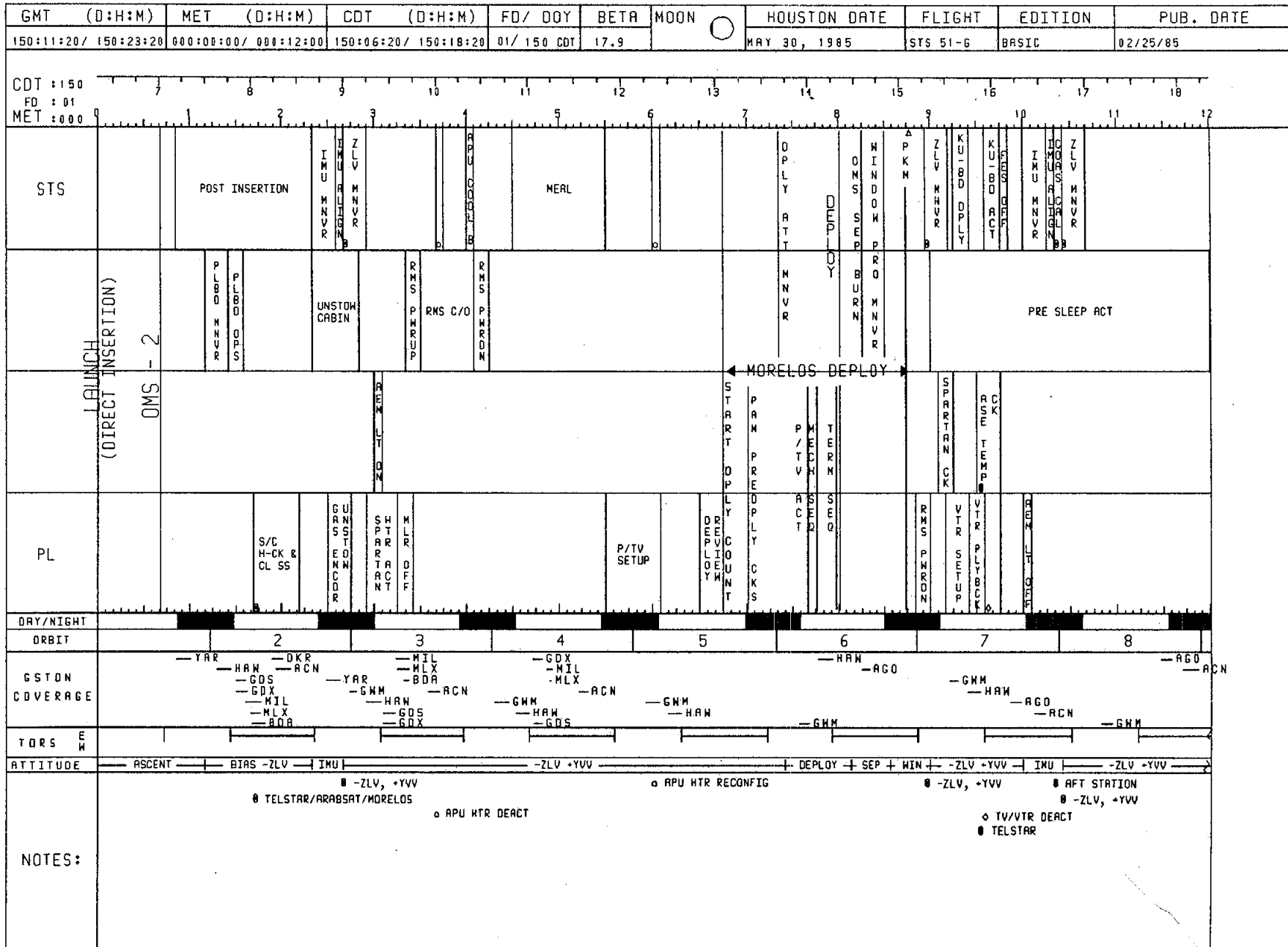




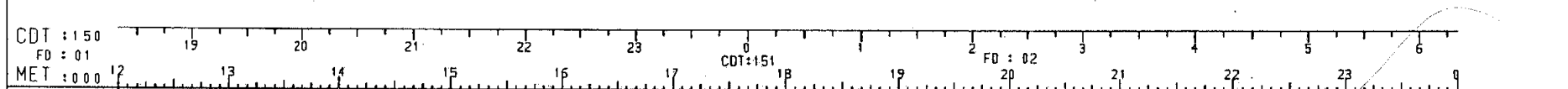
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SUMMARY TIMELINE

SUMMARY TIMELINE



GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
150:23:20 / 151:11:20	000:12:00 / 001:00:00	150:18:20 / 151:06:20	01 / 150 CDT	19.8	○	MAY 30, 1985	STS 51-G	BASIC	02/25/85



STS SLEEP

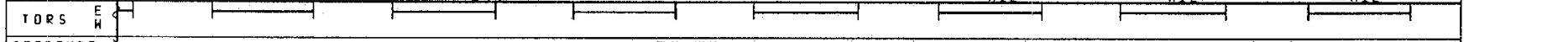
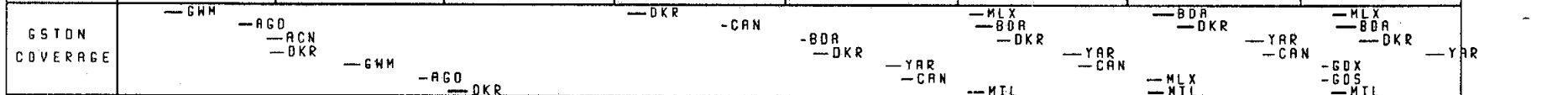
ZLV
MNV
R
MNV
R

POST SLEEP ACT

R
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PL

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ATTITUDE -ZLV +YVV

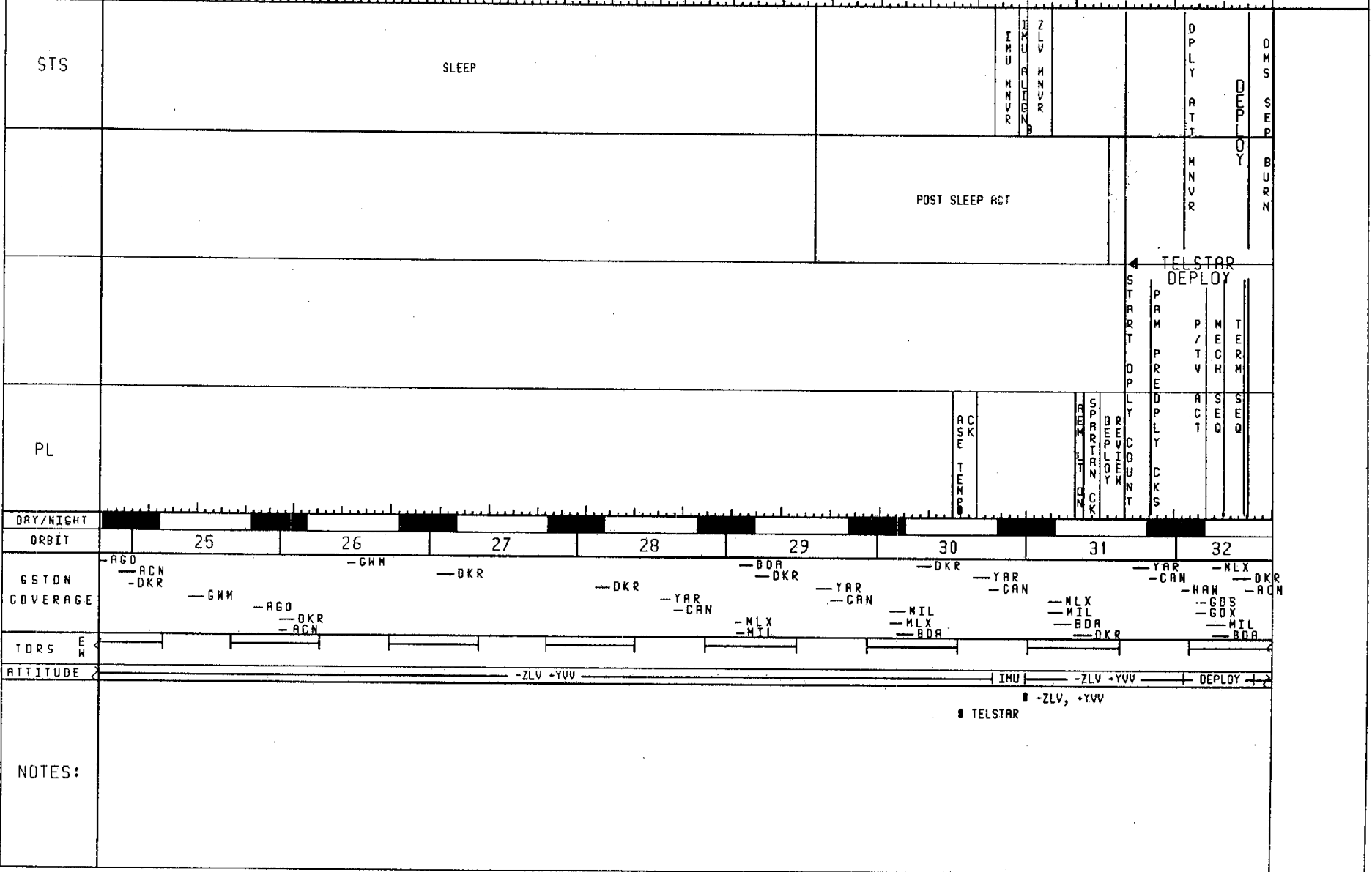
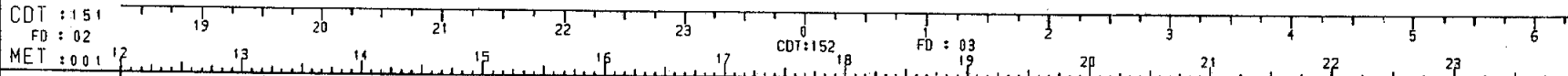
• ARABSAT • -ZLV, +YVV

NOTES:

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
151:11:20 / 151:23:20	001:00:00 / 001:12:00	151:06:20 / 151:18:20	02 / 151 CDT	21.8	☉	MAY 31, 1985	STS 51-G	BASIC	02/25/85

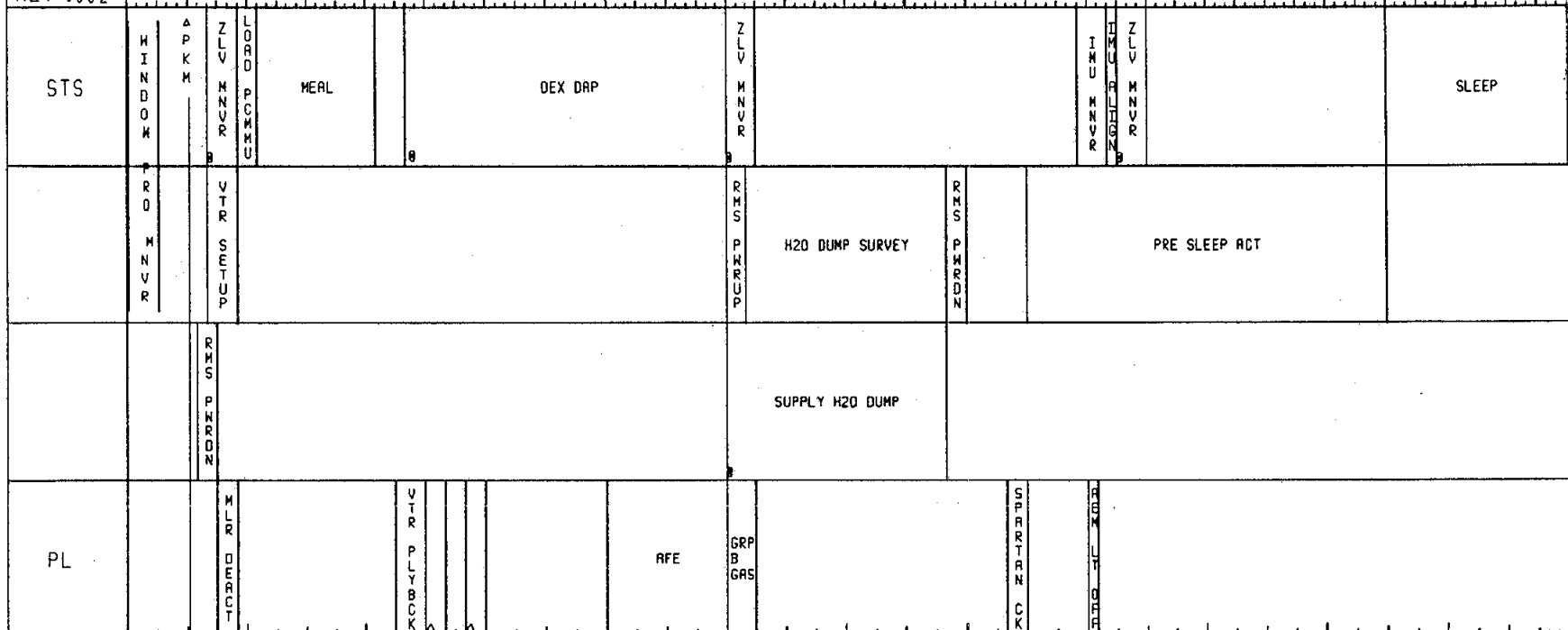
CDT : 151 FD : 02 MET : 001	7 8 9 10 11 12 13 14 15 16 17 18																			
	1 2 3 4 5 6 7 8 9 10 11 12																			
STS	DPLY ATT		DUPPLY		WINDDOWN		APKM		ZLV MNRV		MEAL		SUPPLY H2O DUMP		IMU		ZLV MNRV		SLEEP	
	MNRV		OY		BURN		VTR		VTR		RMS PHRUP		H2O DUMP SURVEY		RMS PNRDN		PRE SLEEP ACT			
	ARABSAT DEPLOY				START UP		RMS PNRDN		MLR STATUS		FLTR IFM		P/TV SETUP							
PL	P/TV SETUP		RECEIVE		DPLY CKS		SEED		MNRV		TELE DEACT		RCK		AFE		SPRTRN CK		RCK	
DAY/NIGHT	DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT		DAY		NIGHT	
ORBIT	17		18		19		20		21		22		23		24					
ESTON COVERAGE	-HAW -RCN		-YAR		-BDA -ACN		-MIL -MLX		-GMM -HAW		-RCN		-GMM -HAW		-AGO -RCN		-GMM		-AGO	
TORS E M	-DKR		-MIL		-GDS		-GDX		-HAW		-GDS		-GDX		-GMM -HAW		-AGO		-RCN	
ATTITUDE	-ZLV +YVV		DEPLOY + SEP + WIN		-ZLV +XVV		-ZLV +XVV		IMU		-ZLV +YVV									
NOTES:	<ul style="list-style-type: none"> • -ZLV, +XVV • TELSTAR • FILTER CLEANING • TV/VTR DEACT • DTO 0325 WASTE AND SUPPLY WATER DUMPS 																			

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FO/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
151:23:20 / 152:11:20	001:12:00 / 002:00:00	151:18:20 / 152:06:20	02 / 151 CDT	23.8	○	MAY 31, 1985	STS 51-G	BASIC	02/25/85



GMT (O:H:M)	MET (O:H:M)	CDT (O:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
152:11:20/ 152:23:20	002:00:00/ 002:12:00	152:06:20/ 152:18:20	03/ 152 CDT	25.9	☉	JUNE 1, 1985	STS 51-G	BASIC	02/25/85

CDT : 152
 FD : 03
 MET : 002

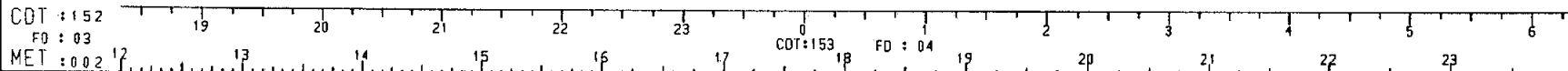


DAY/NIGHT	Light		Dark		Light		Dark		Light		Dark		Light		Dark	
ORBIT	32	33	34	35	36	37	38	39	40							
GSTON COVERAGE	YAR HAW DKR ACN		YAR GMM		GMM HAW		HAW AGO		GMM AGO		GMM ACN		GMM AGO		GMM ACN	
TORS	SEP WIN		ZLV XVV		DEX		ZLV XVV		IMU		ZLV XVV					

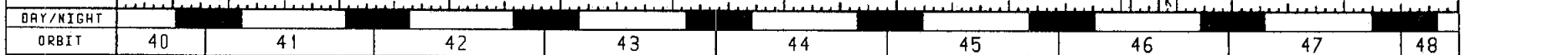
NOTES:

- -ZLV, +XVV
- ◆ TV/VTR DEACT
- ◆ DTG 909 DEX ADVANCED AUTO PILOT PERFORMANCE
- ◆ MLR POST DEACT
- DTG 0325 WASTE AND SUPPLY WATER DUMPS
- -ZLV, +XVV
- -ZLV, +XVV

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
152:23:20 / 153:11:20	002:12:00 / 003:00:00	152:18:20 / 153:06:20	03 / 152 CDT	27.9	☉	JUNE 1, 1985	STS 51-G	BASIC	02/25/85



STS	SLEEP		IMU HNVVR	ZLV MNVVR		RMS PARUP	H2O DUMP SURVEY	H2O DUMP SURVEY
				POST SLEEP ACT			SUPPLY H2O DUMP	WASTE H2O DUMP
PL					REMLTGN	SPARTAN CK		



ORBIT	40	41	42	43	44	45	46	47	48	
GSTON COVERAGE	-RGD -ACN -DKR	-GMM	-RGD -DKR	YAR -CAN	-NIL -BDA -DKR	-NIL -MLX -BDA -DKR	-MLX -BDA -DKR	-GDS -MIL -BDA -MLX -DKR -ACN	-HAK -GDS -GDX -MIL -MLX -BDA	
TDRS E				-DKR	-YAR -CAN	-YAR -CAN	-MIL	-YAR -CAN -HAK -GDX	-YAR	
ATTITUDE	-ZLV +XVV						IMU	-ZLV +XVV		

NOTES:

• -ZLV, +XVV • DTO 0325 WASTE AND SUPPLY WATER DUMPS

• DTO 0325 WASTE AND SUPPLY WATER DUMPS

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ OQY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
153:11:20 / 153:23:20	003:00:00 / 003:12:00	153:06:20 / 153:18:20	04 / 153 COT	29.9	☉	JUNE 2, 1985	STS 51-G	BASIC	02/25/85

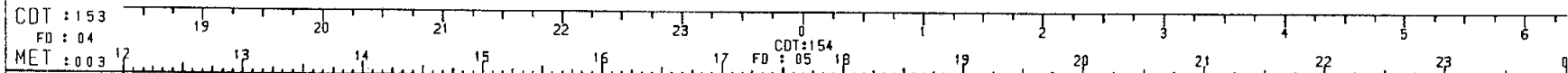
CDT : 153
 FD : 04
 MET : 003

STS	H2O DUMP SURVEY	RMS PWRDN	SPARTAN DEPLOY INIT SEP FIN SEP				IMU MNV R	ZLV MNV R	SLEEP
	WASTE H2O DUMP		MEAL				PRE SLEEP ACT		
		AFE	P/TV SETUP	P/TV ACT	VTR SETUP VTR PLYBACK	GRP C GAS			
PL			SPARTAN DEPLOY REL						

DAY/NIGHT	48		49		50		51		52		53		54		55	
ORBIT	48		49		50		51		52		53		54		55	
GSTON COVERAGE	-MIL -MLX -BDA -DKR -ACN	-HAW -GDS -GDY -MIL -MLX -BDA -YAR -GMM -ACN	-YAR -GMM -ACN	-HAW -GDS -GDY -MIL -MLX -BDA	-RCN -GMM -HAW	-GMM -HAW	-GMM -HAW -AGO	-HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN	-GMM -HAW -AGO -ACN
TORS	E		W		E		W		E		W		E		W	
ATTITUDE	-ZLV +XVV				RENDEZVOUS				IMU		-ZLV +XVV					

NOTES:
 0 DTO 0325 WASTE AND SUPPLY WATER DUMPS
 0 DTO 0325 WASTE AND SUPPLY WATER DUMPS
 0 -ZLV, +XVV

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
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STS	SLEEP	INU MNVVR	AUTO MNVVR	RRSS P RRSS	H2O DUMP SURVEY
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			POST SLEEP ACT		SUPPLY H2O DUMP
--	--	--	----------------	--	-----------------

PL					GRP D GAS
----	--	--	--	--	-----------------



DRY/NIGHT ORBIT	56	57	58	59	60	61	62	63
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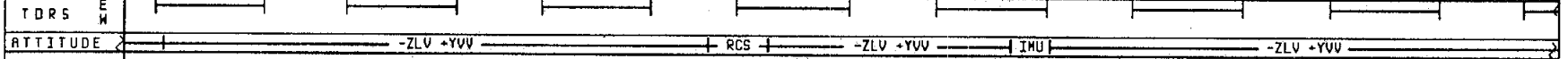
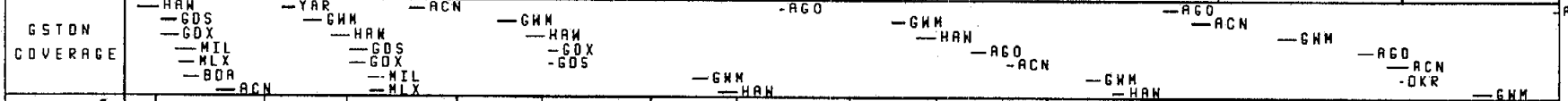
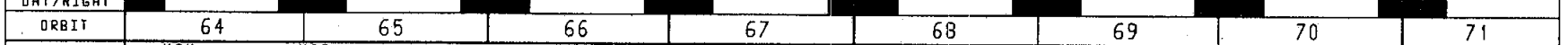
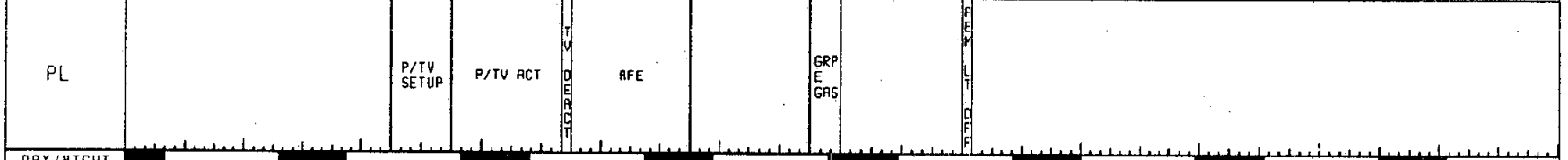
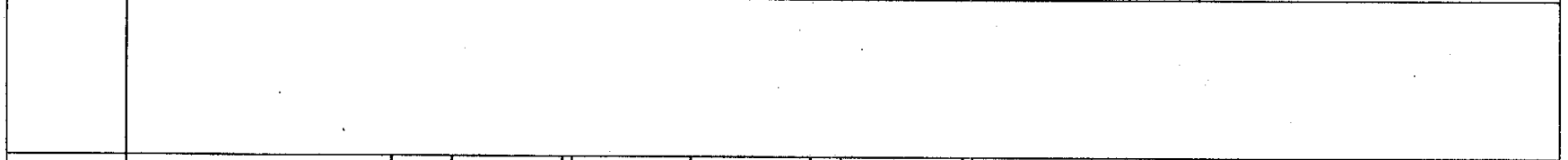
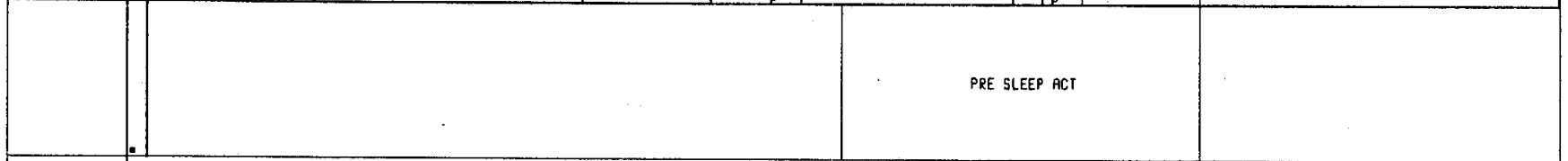
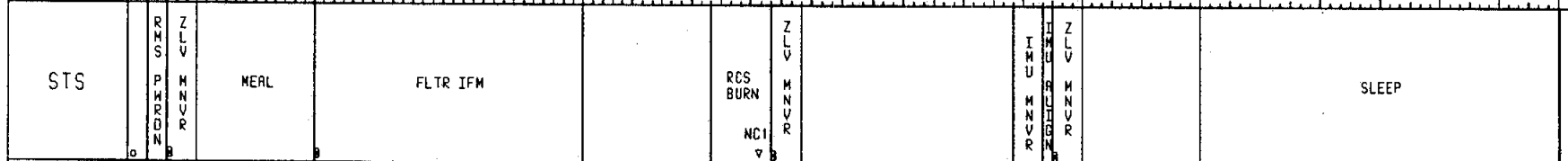
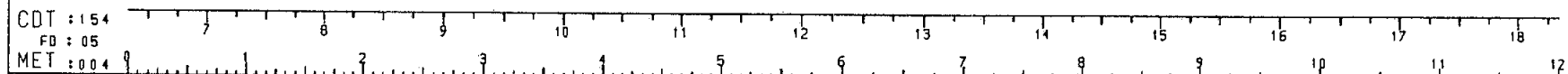
GSTON COVERAGE	-GWM	-AGD -DKR -ACN	-GWM	-DKR	-CAN	-MIL -MLX -BDA	-DKR	-YAR -CAN	-MLX -DKR -ACN	-YAR
----------------	------	----------------------	------	------	------	----------------------	------	--------------	----------------------	------

TORS										
------	--	--	--	--	--	--	--	--	--	--

ATTITUDE		-ZLV +XVV			IMU			DUMP ATT	
----------	--	-----------	--	--	-----	--	--	----------	--

NOTES: ● DTD 0325 WASTE AND SUPPLY WATER DUMPS

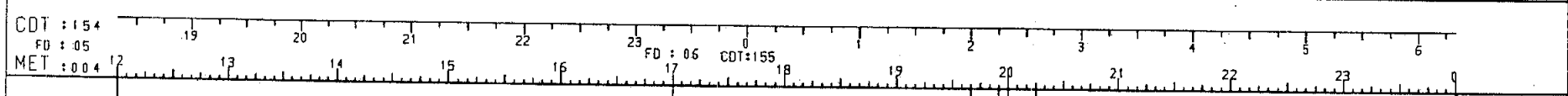
GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
154:11:20 / 154:23:20	004:00:00 / 004:12:00	154:06:20 / 154:18:20	05/ 154 CDT	33.8		JUNE 3, 1985	STS 51-G	BASIC	02/25/85



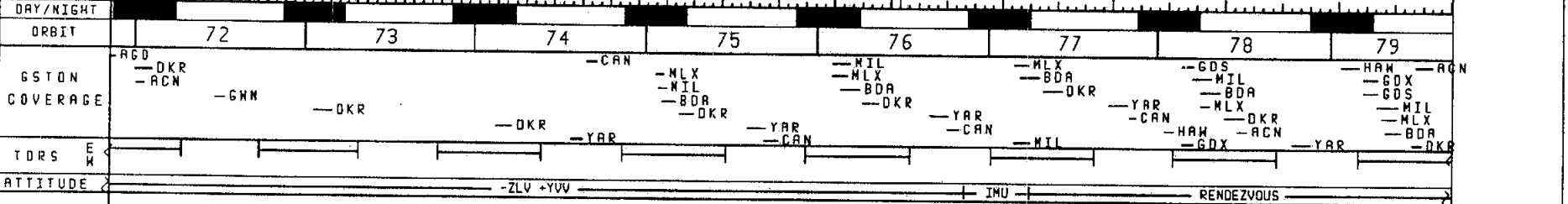
NOTES:

- -ZLV, +YVV
- FILTER CLEANING
- H2O DUMP SURVEY
- SUPPLY H2O DUMP
- DTO 0325 WASTE AND SUPPLY WATER DUMPS

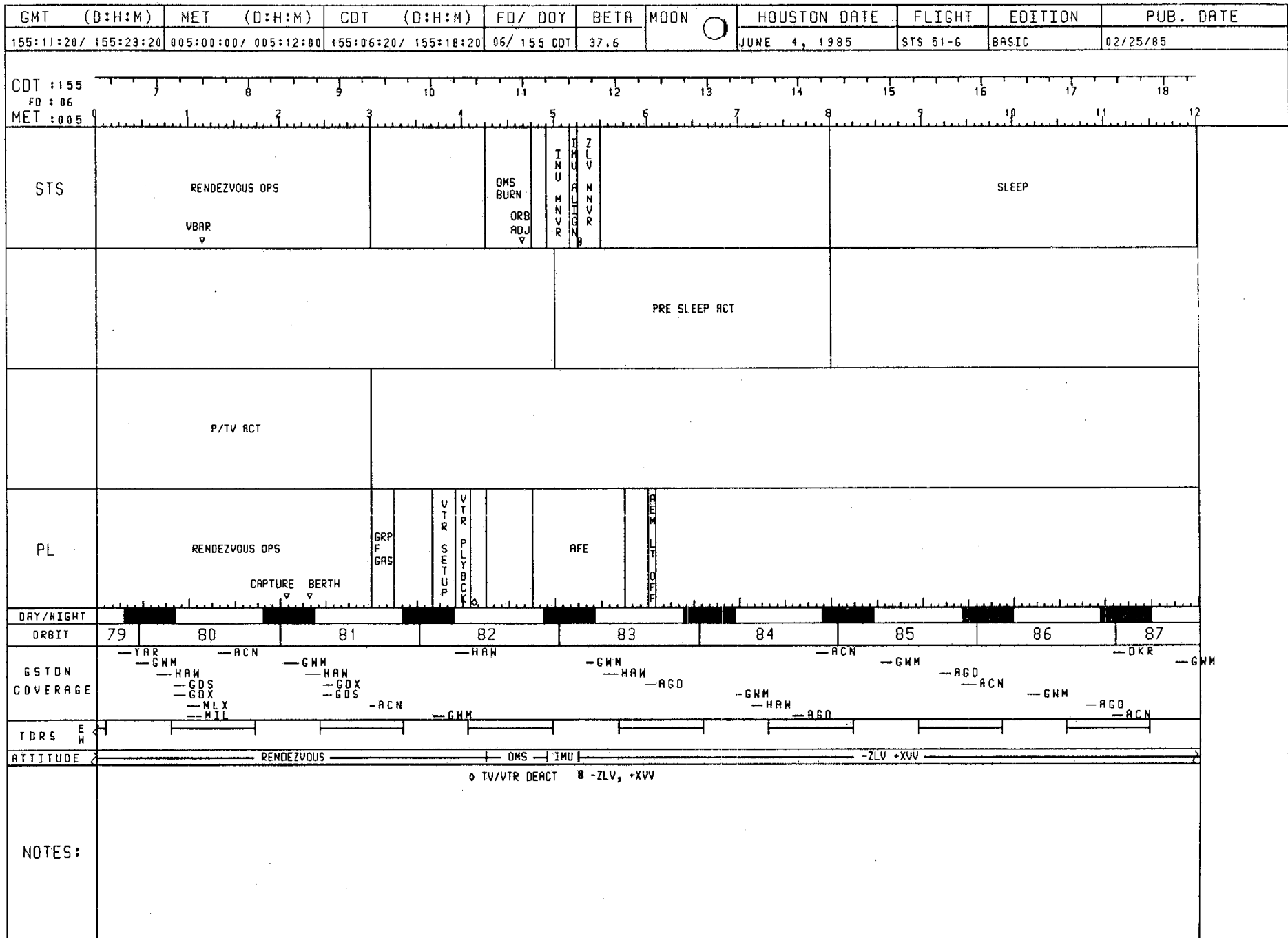
GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
154:23:20/ 155:11:20	004:12:00/ 005:00:00	154:18:20/ 155:06:20	05/ 154 CDT	35.7		JUNE 3, 1985	STS 51-G	BASIC	02/25/85



STS	SLEEP					RENDEZVOUS OPS	
						NC2	NH
	POST SLEEP ACT					MEAL	
						P/TV SETUP	
PL							

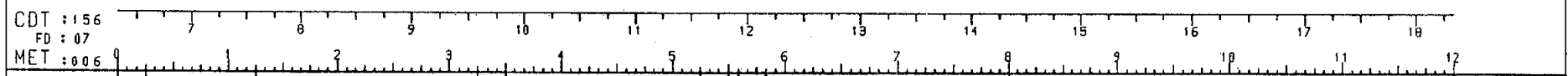


NOTES:

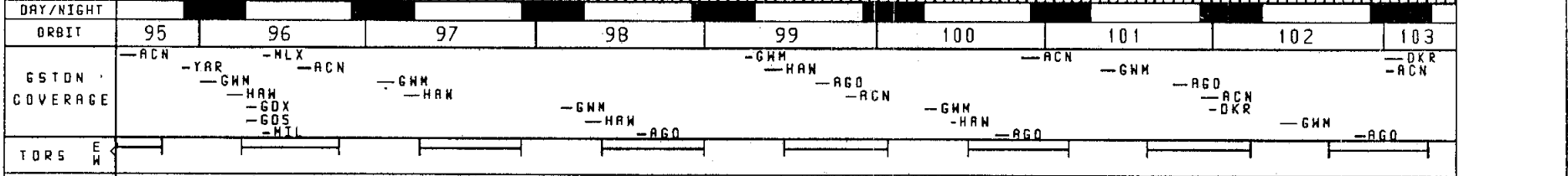


GMT (O:H:M)	MET (O:H:M)	CDT (O:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
155:23:20 / 156:11:20	005:12:00 / 006:00:00	155:18:20 / 156:06:20	06 / 155 CDT	39.4	☉	JUNE 4, 1985	STS 51-G	BASIC	02/25/85	
CDT : 155 FD : 06 MET : 005										
STS	SLEEP				H2O DUMP SURVEY		FCS C/O			
			POST SLEEP ACT		SUPPLY H2O DUMP		P/TV SETUP		P/TV ACT	
PL							AFE			
DAY/NIGHT										
ORBIT	87	88	89	90	91	92	93	94	95	
GSTON COVERAGE	-AGO -DKR		-DKR	-CAN	-MIL -MLX -BDA -DKR	-MIL -MLX -BDA -DKR	-GDS -MIL -MLX -BDA -DKR	-GDX -GDS -MIL -MLX -BDA -DKR	-YAR -GMM -HAM -GDS -GDX -MIL	-BDA
TDRS E W										
ATTITUDE	-ZLV +XVV IMU -ZLV +XVV (RCS) -ZLV +XVV									
NOTES:	■ -ZLV, +XVV ■ DTD 0325 WASTE AND SUPPLY WATER DUMPS ▲ APU HTR ACT ■ -ZLV, +XVV									

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
156:11:20 / 156:23:20	006:00:00 / 006:12:00	156:06:20 / 156:18:20	07 / 156 CDT	41.2		JUNE 5, 1985	STS 51-G	BASIC	02/25/85



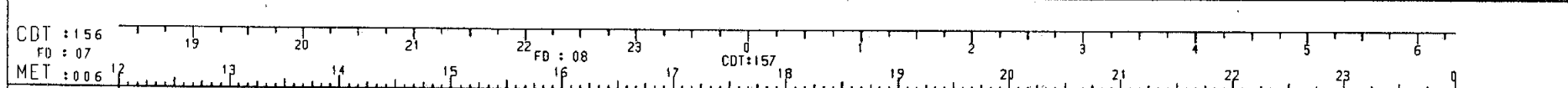
STS	MEAL	DEX DRP	ZLV MNVVR	IMU MNVVR	ZLV MNVVR	SLEEP
P/TV ACT					PRE SLEEP ACT	
		CABIN STOW				
PL			GRP S GAS	STOW E N C E R	M L R D E O R B	



NOTES:

- TV/VTR DEACT
- DTO 909 OEX ADVANCED AUTOPILOT PERFORMANCE
- -ZLV, +XVV
- -ZLV, +XVV

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
156:23:20 / 157:11:20	006:12:00 / 007:00:00	156:18:20 / 157:06:20	07 / 156 CDT	42.9		JUNE 5, 1985	STS 51-G	BASIC	02/25/85



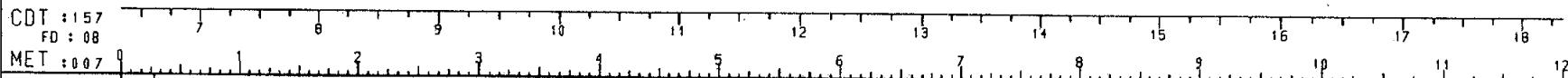
STS	SLEEP	IMU MNV R	XSI MNV R	DEORBIT PREP
	POST SLEEP ACT			PLBD OPS
				DEORBIT BURN
PL				OPS SN SHLD

DAY/NIGHT											
ORBIT	103	104	105	106	107	108	109	110	111		
STATION COVERAGE	-GMM	-DKR	-DKR	-YAR -CAN	-BDA -DKR	-YAR -CAN	-YAR -CAN	-MLX -MIL -BDA -DKR	-HAW -ACN -YAR	-MIL -MLX -BDA -DKR -ACN	-HAW -GDS -GDS
TORS											
ATTITUDE	-ZLV +XVV IMU -XSI IMU DEORBIT BURN ENTRY										

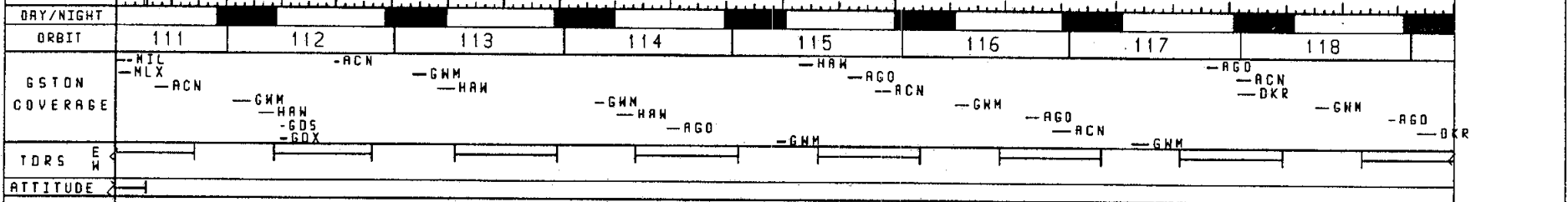
NOTES:

- SPARTAN DEORB CONF
- TELSTAR/ARABSAT/MORELOS

GMT (D:H:M)	MET (D:H:M)	CDT (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
157:11:20 / 157:23:20	007:00:00 / 007:12:00	157:06:20 / 157:18:20	08 / 157 CDT	44.4		JUNE 6, 1985	STS 51-G	BASIC	02/25/85



STS	
KSC LANDING (7:00:16)	
PL	

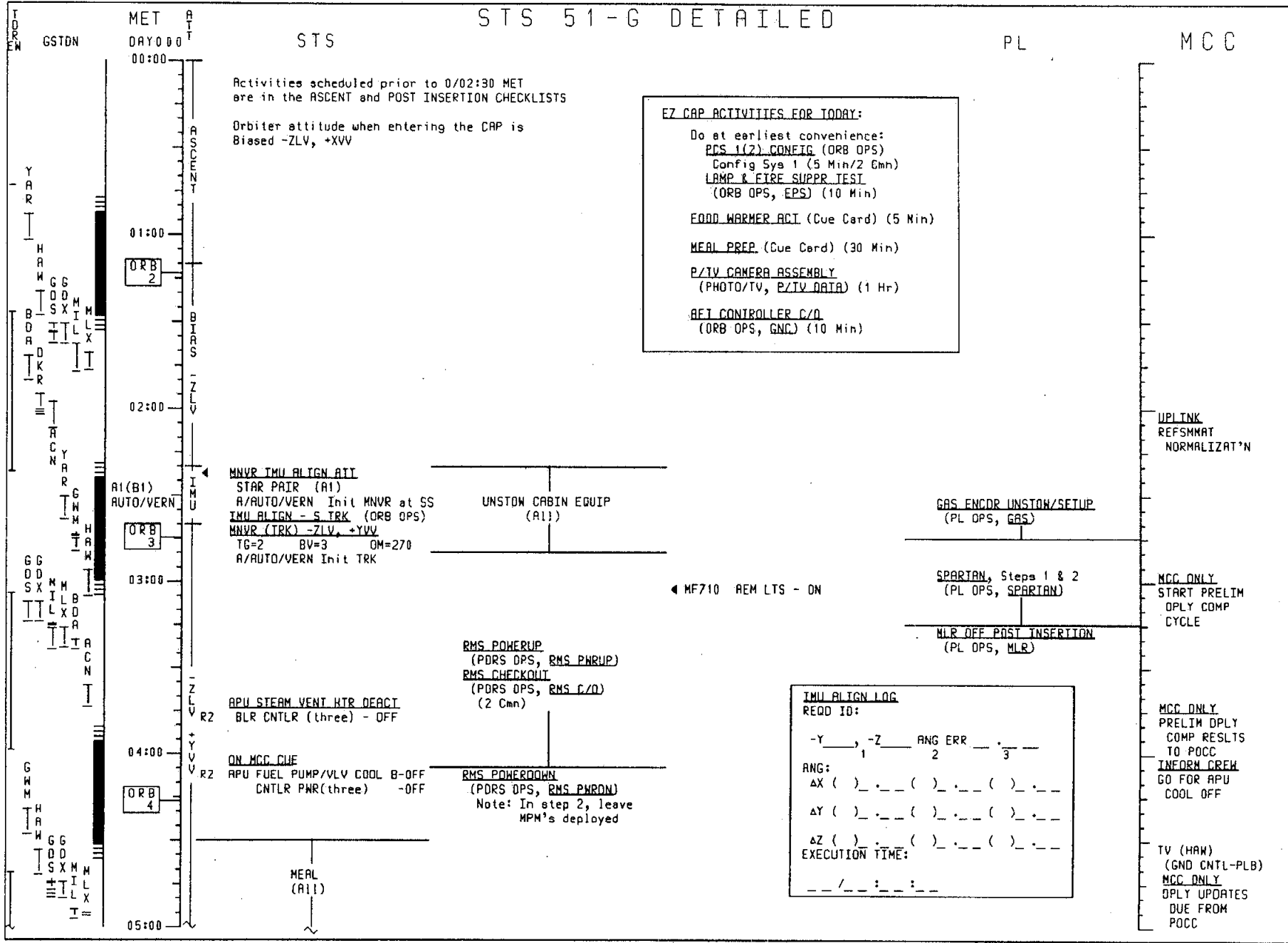


NOTES:

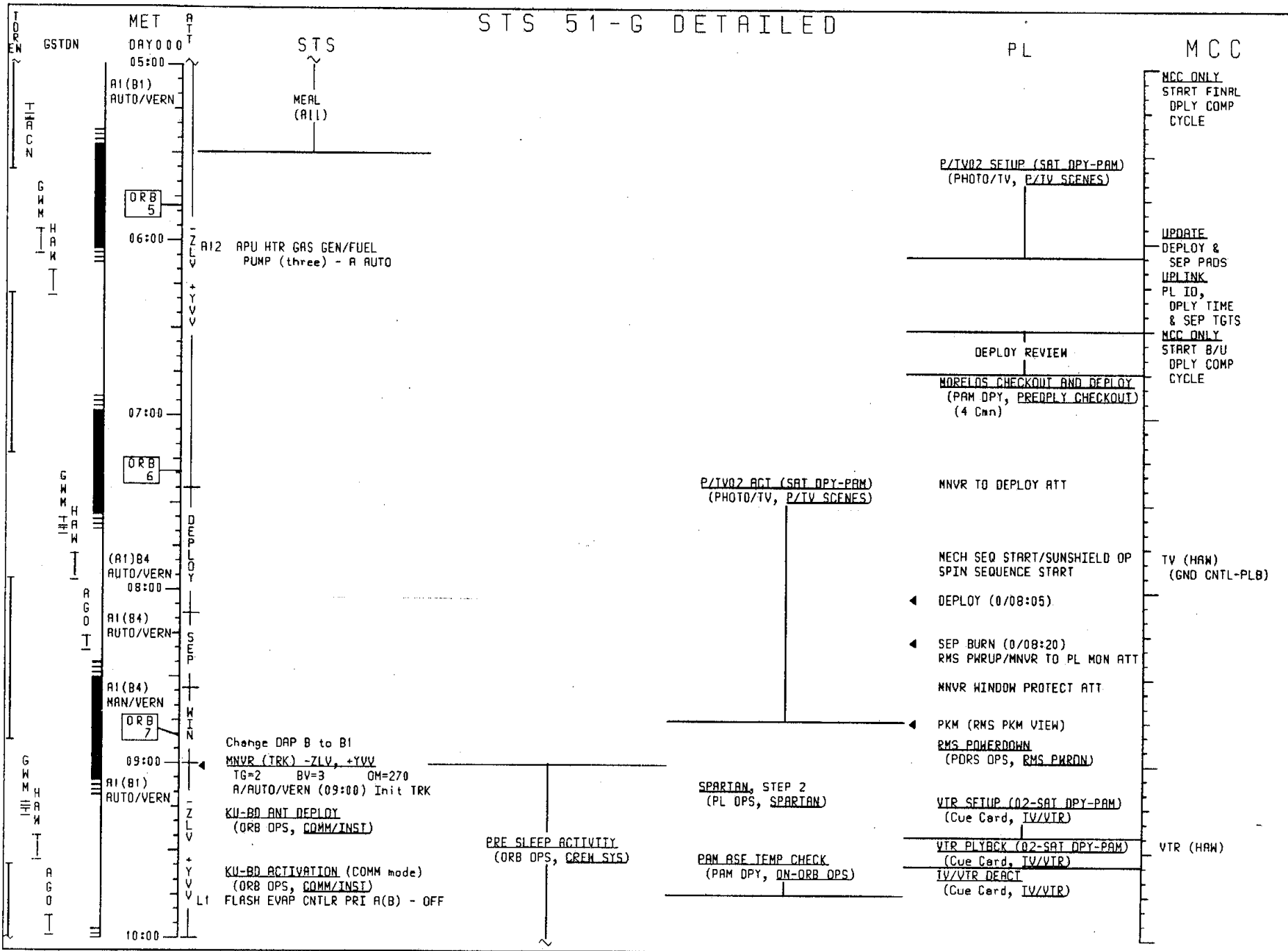
DETAILED TIMELINE

DETAILED
TIMELINE

DETAILED TIMELINE



STS 51-G DETAILED

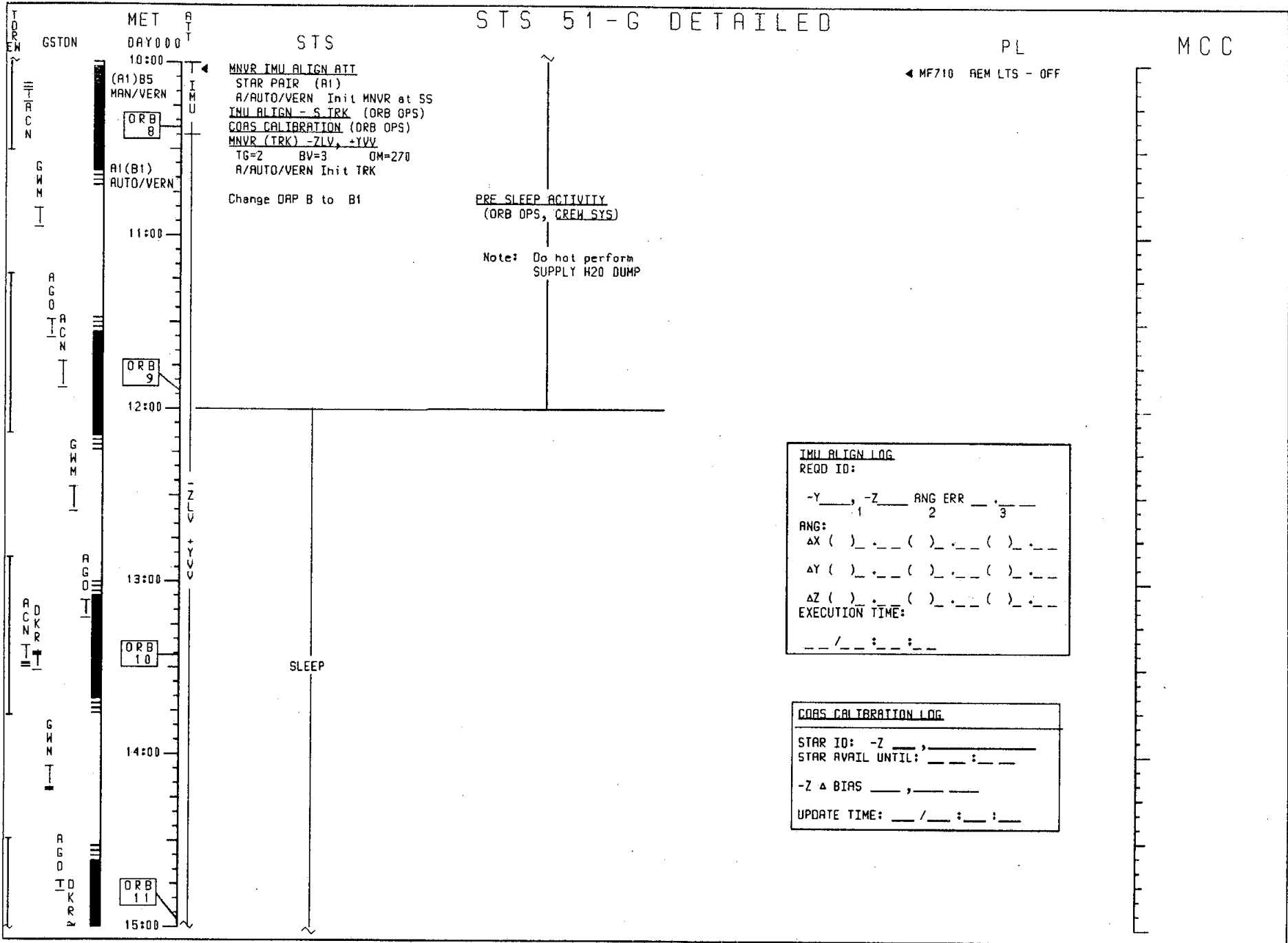


STS 51-G DETAILED

PL

MCC

◀ MF710 REM LTS - OFF



IMU ALIGN LOG

REQD ID: _____

-Y _____, -Z _____ ANG ERR _____

1 2 3

ANG:

ΔX () _____ () _____ () _____

ΔY () _____ () _____ () _____

ΔZ () _____ () _____ () _____

EXECUTION TIME: _____

____ / ____ : ____ : ____

COAS CALIBRATION LOG

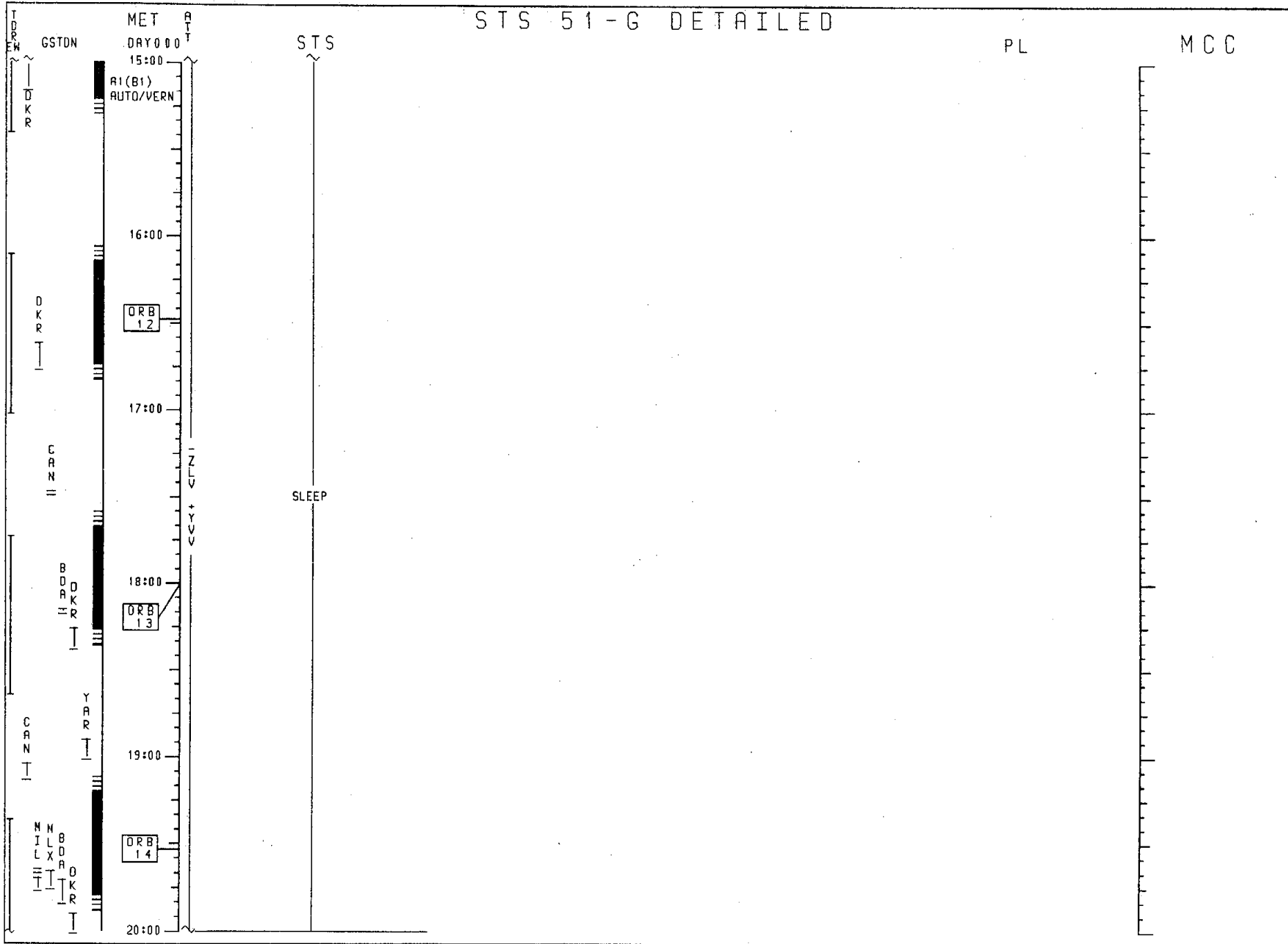
STAR ID: -Z _____, _____

STAR AVAIL UNTIL: _____ : _____

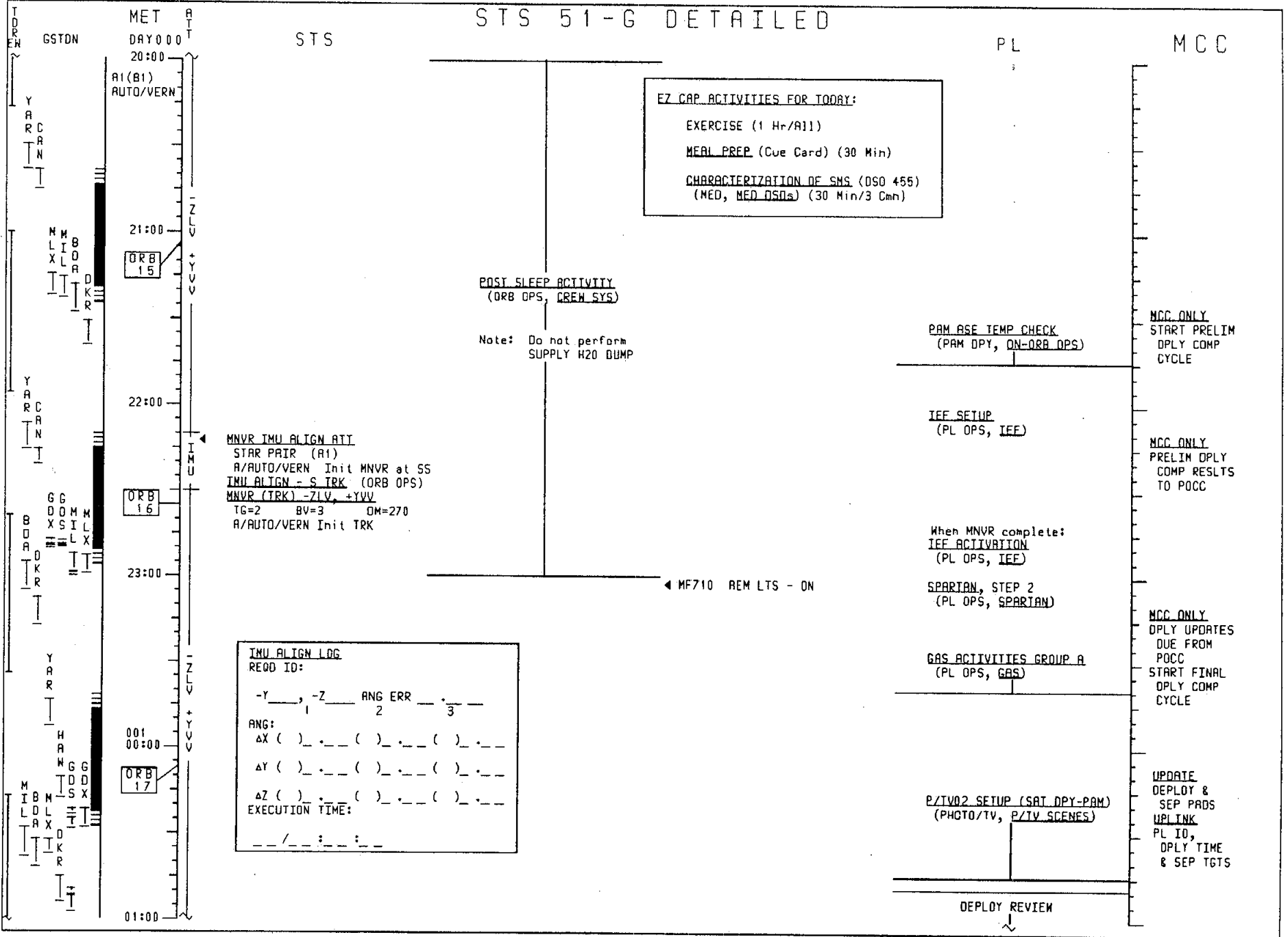
-Z Δ BIAS _____, _____

UPDATE TIME: ____ / ____ : ____ : ____

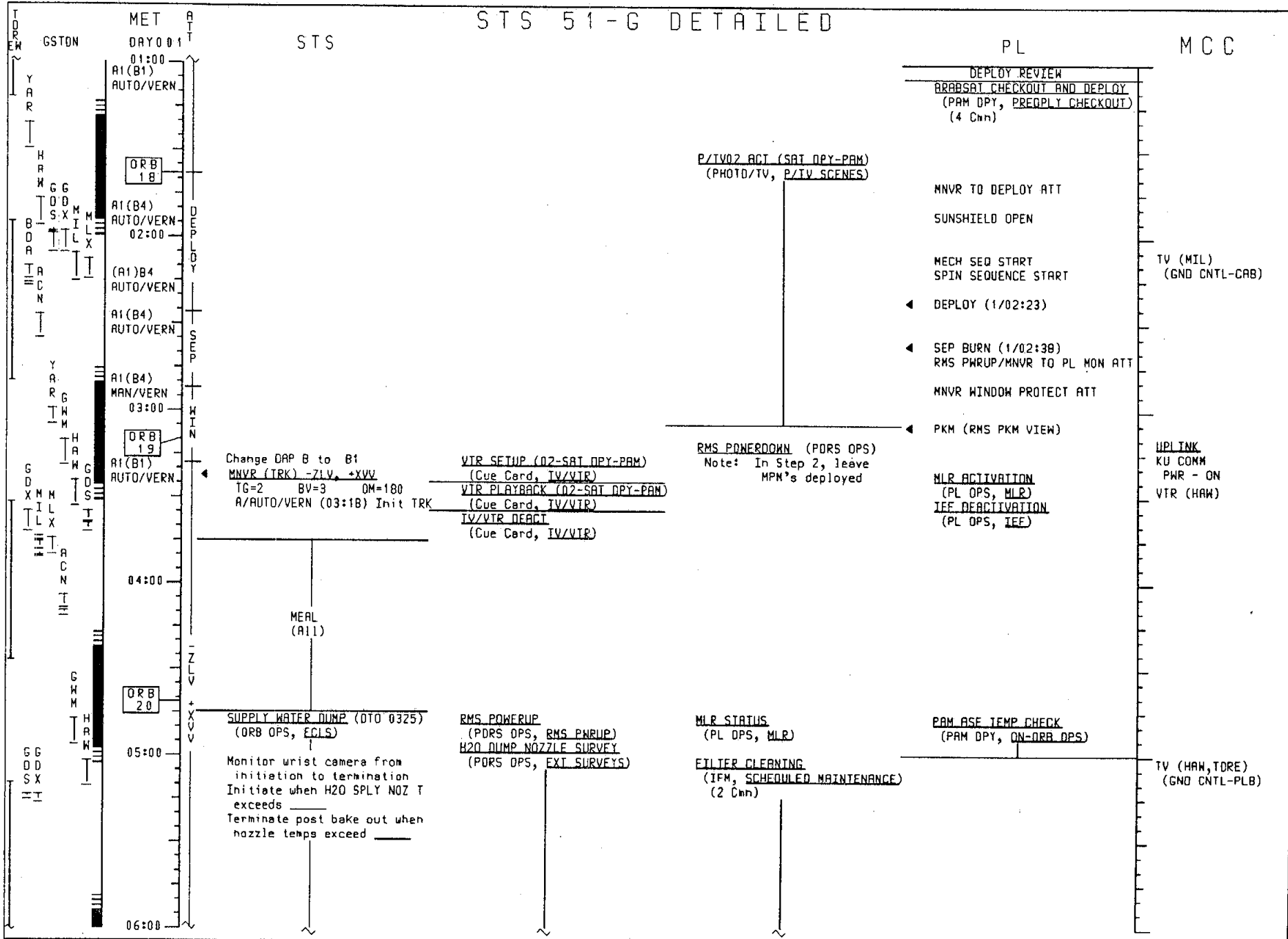
STS 51-G DETAILED



STS 51-G DETAILED



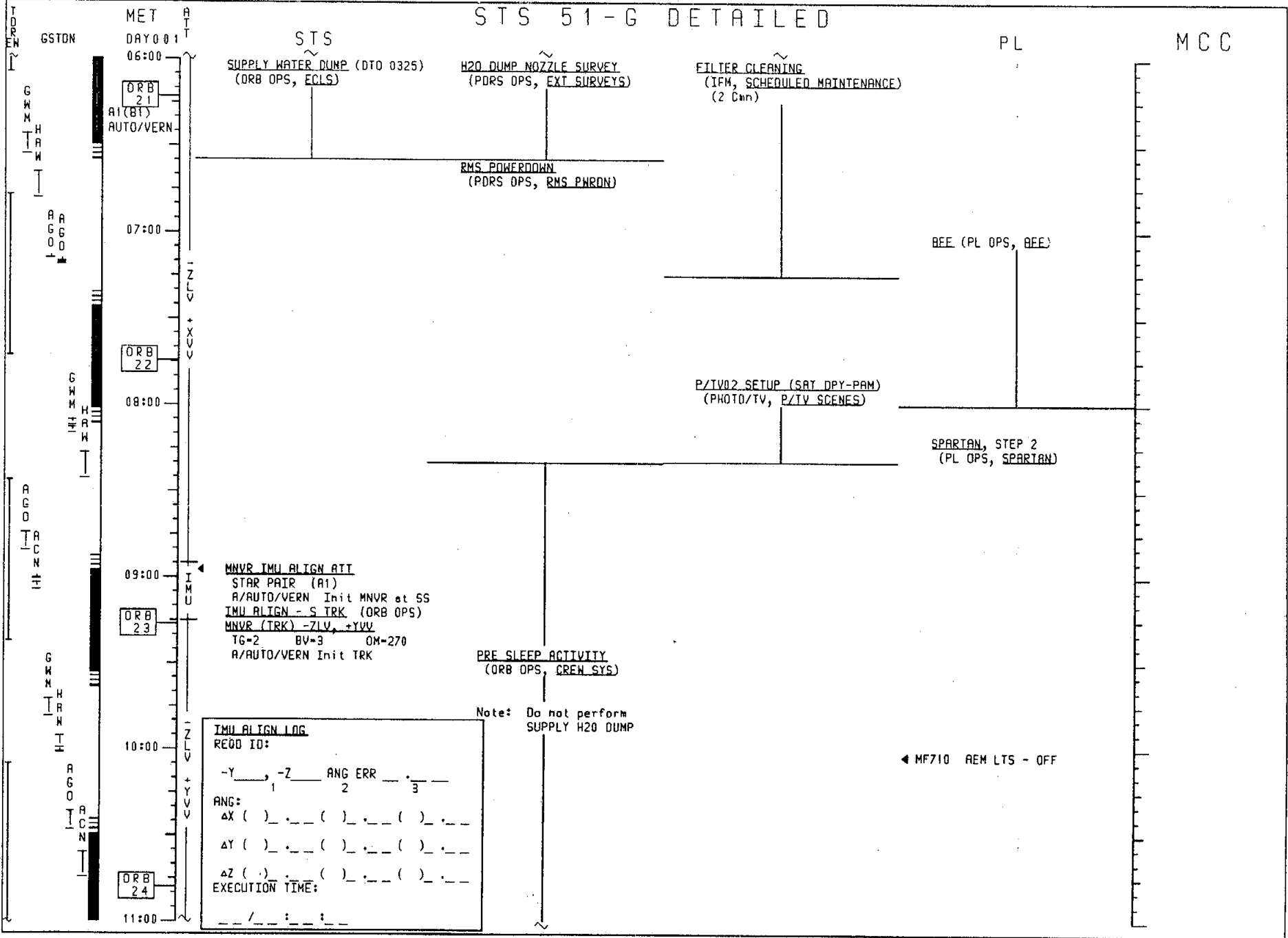
STS 51-G DETAILED



STS 51-G DETAILED

PL

MCC

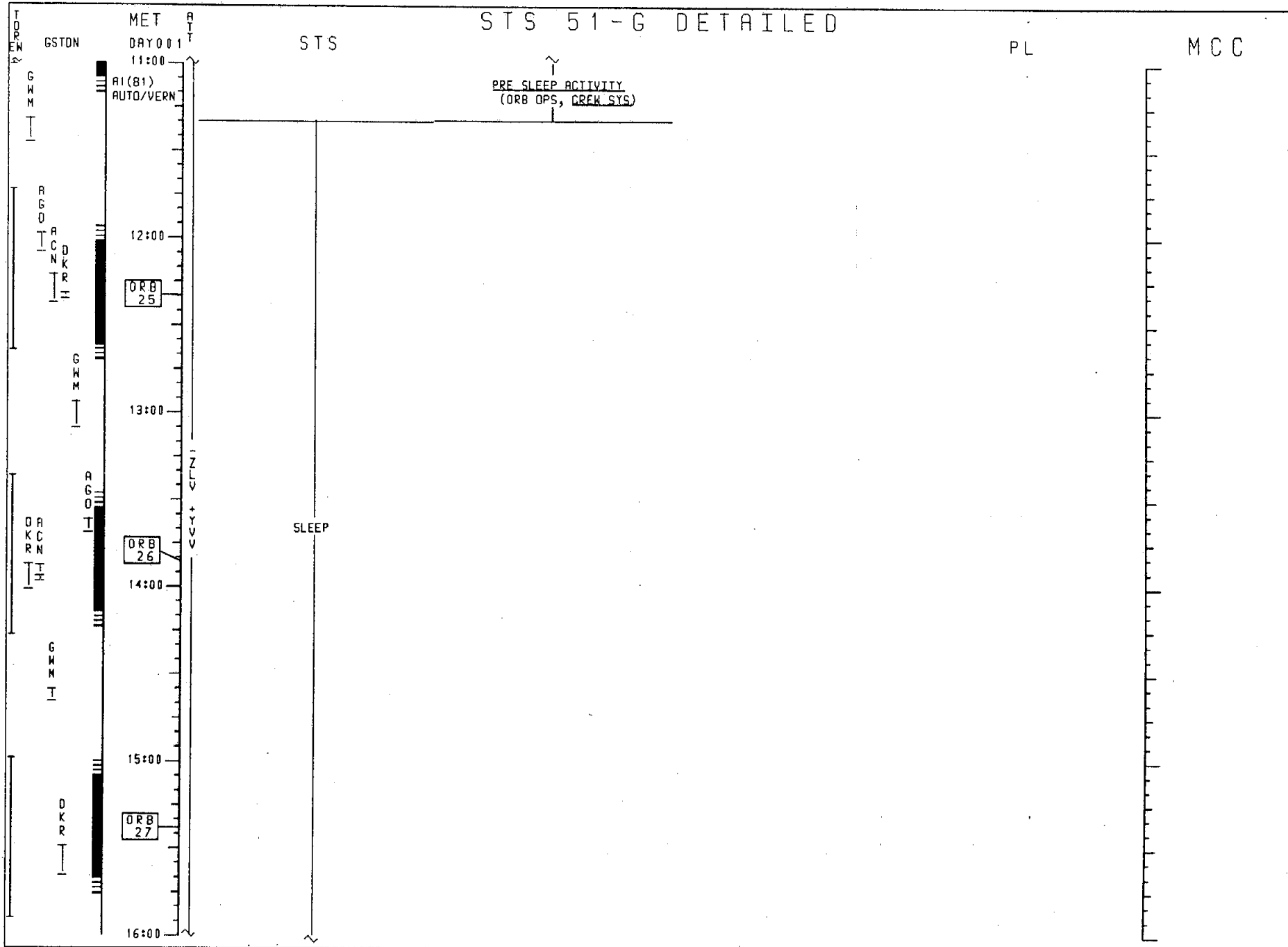


STS 51-G DETAILED

STS

PL

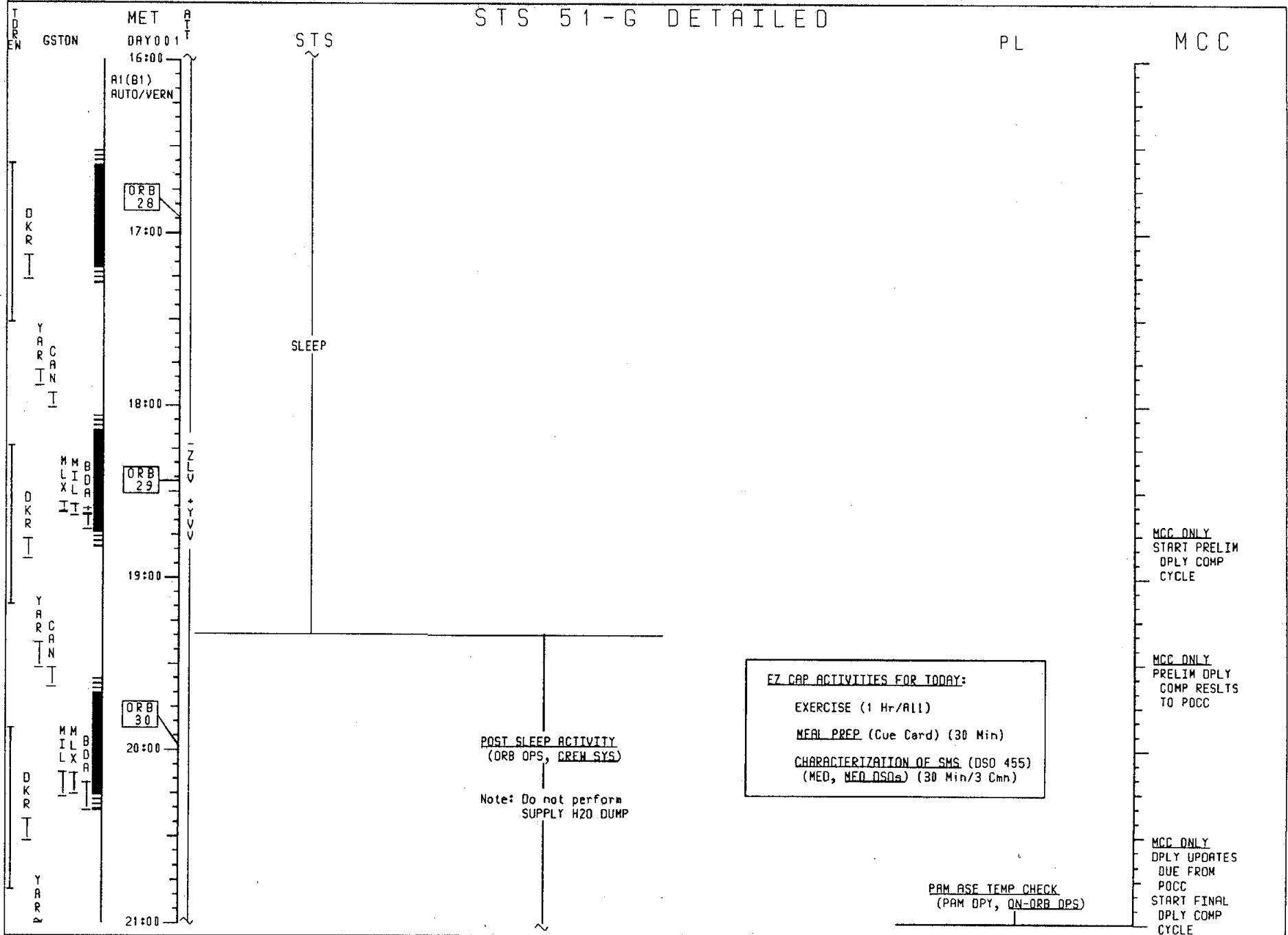
MCC



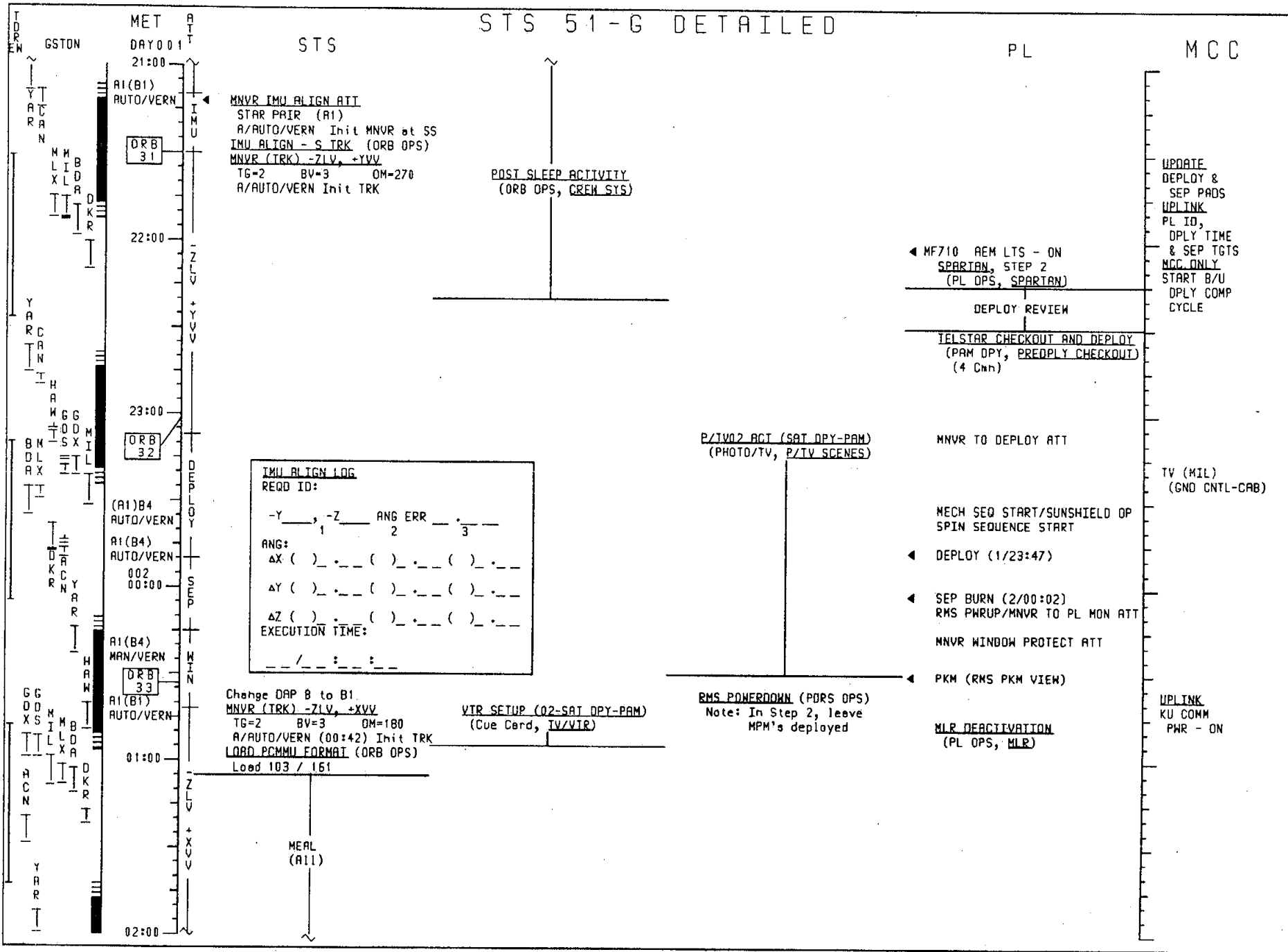
STS 51-G DETAILED

PL

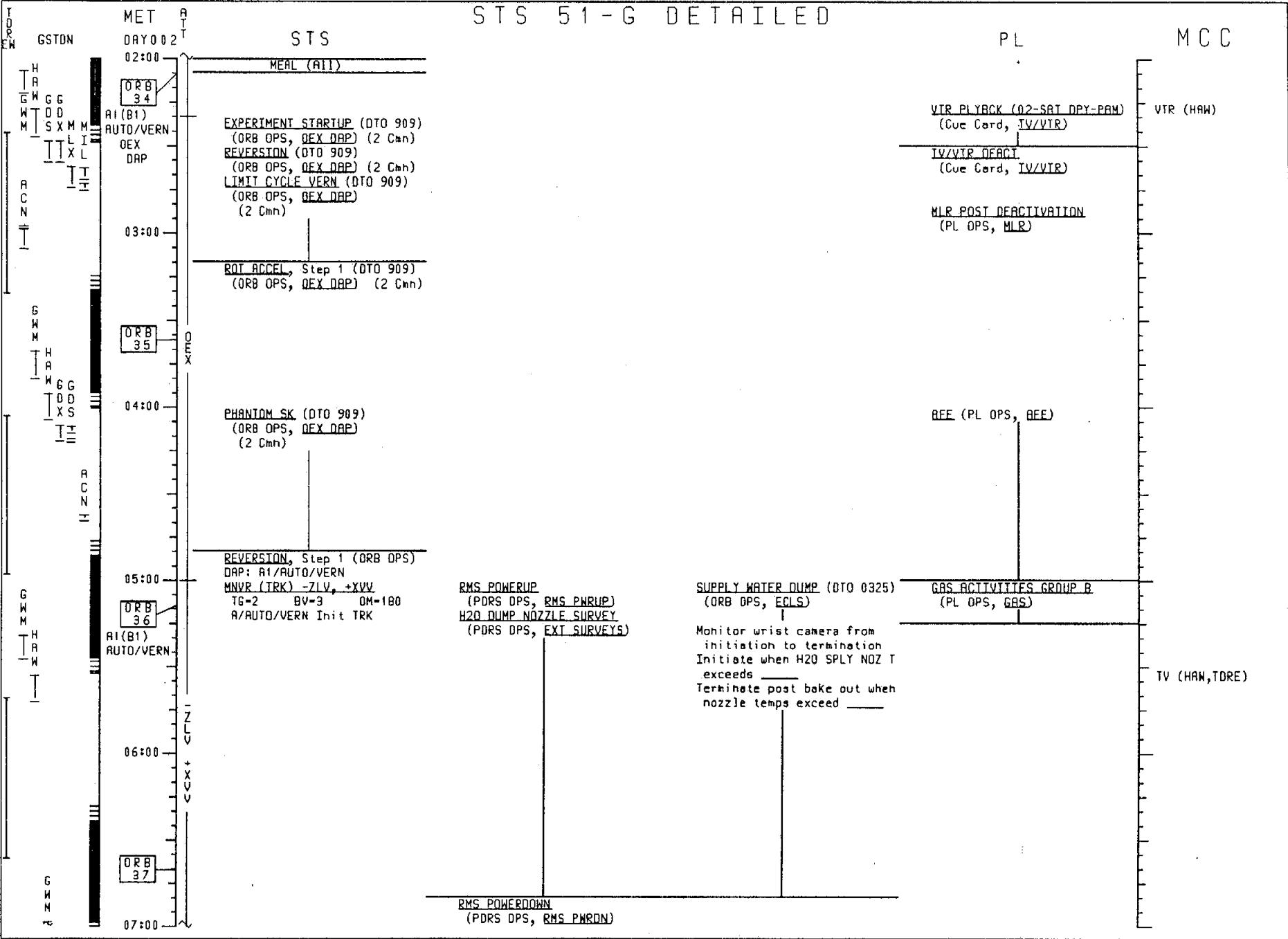
MCC



STS 51-G DETAILED



STS 51-G DETAILED



STS 51-G DETAILED

STS

PL

MCC

MET
DAY 002
07:00

A1(B1)
AUTO/VERN

08:00

ORB
38

09:00

ORB
39

10:00

11:00

ORB
40

12:00

MNVR IMU ALIGN ATT
STAR PAIR (A1)
A/AUTO/VERN Init MNVR at 55
IMU ALIGN - S TRK (ORB OPS)
MNVR (TRK) -ZLV, +XVV
TG=2 BV=3 DM=180
A/AUTO/VERN Init TRK

PRE SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Note: Do not perform
SUPPLY H2O DUMP

SLEEP

SPARTAN, STEP 2
(PL OPS, SPARTAN)

◀ MF710 REM LTS - OFF

IMU ALIGN LOG

REQD ID:

-Y____, -Z____ ANG ERR ____
 1 2 3

ANG:

ΔX () . () . () .

ΔY () . () . () .

ΔZ () . () . () .

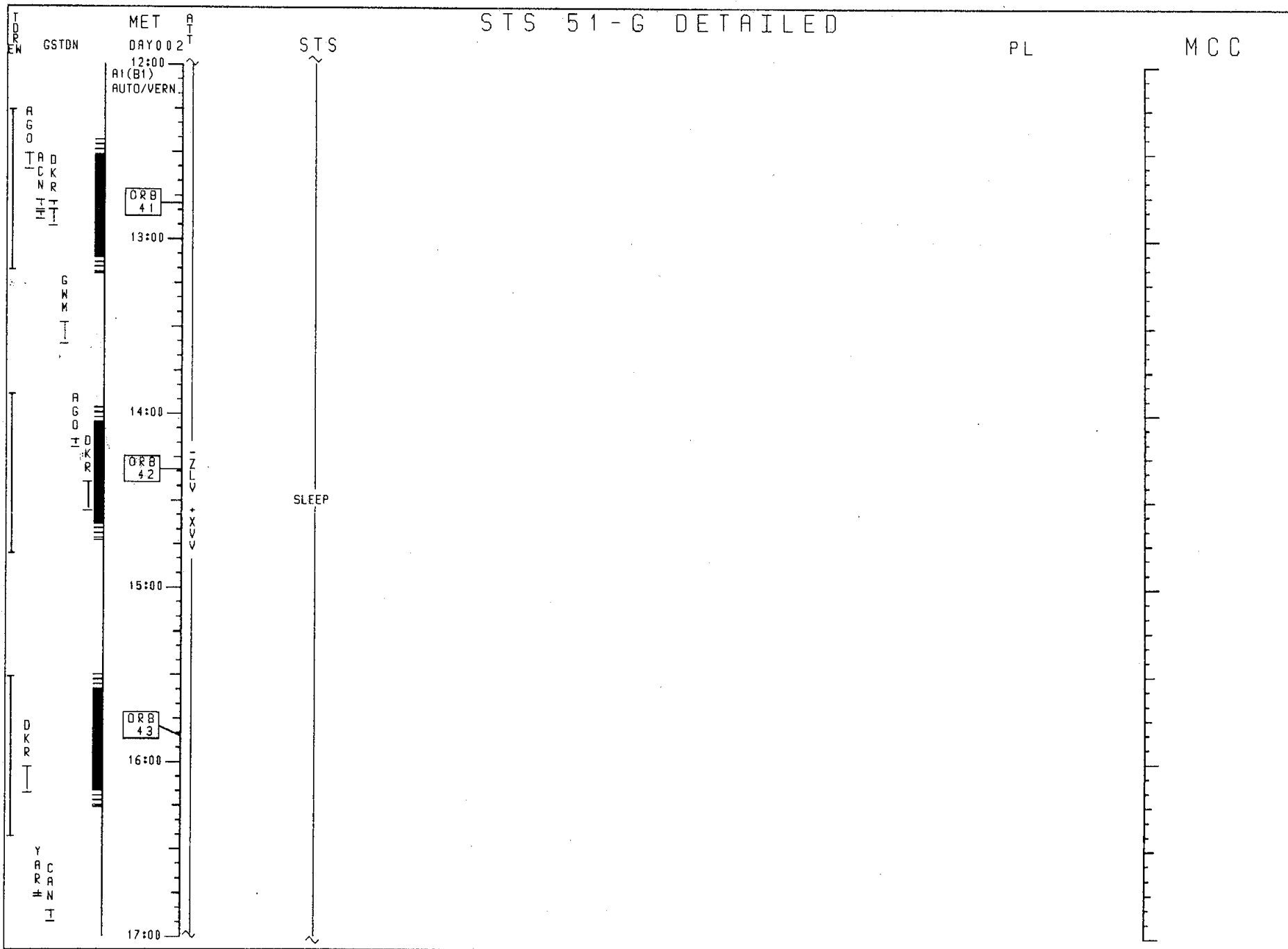
EXECUTION TIME:

___/___:___:___

STS 51-G DETAILED

PL

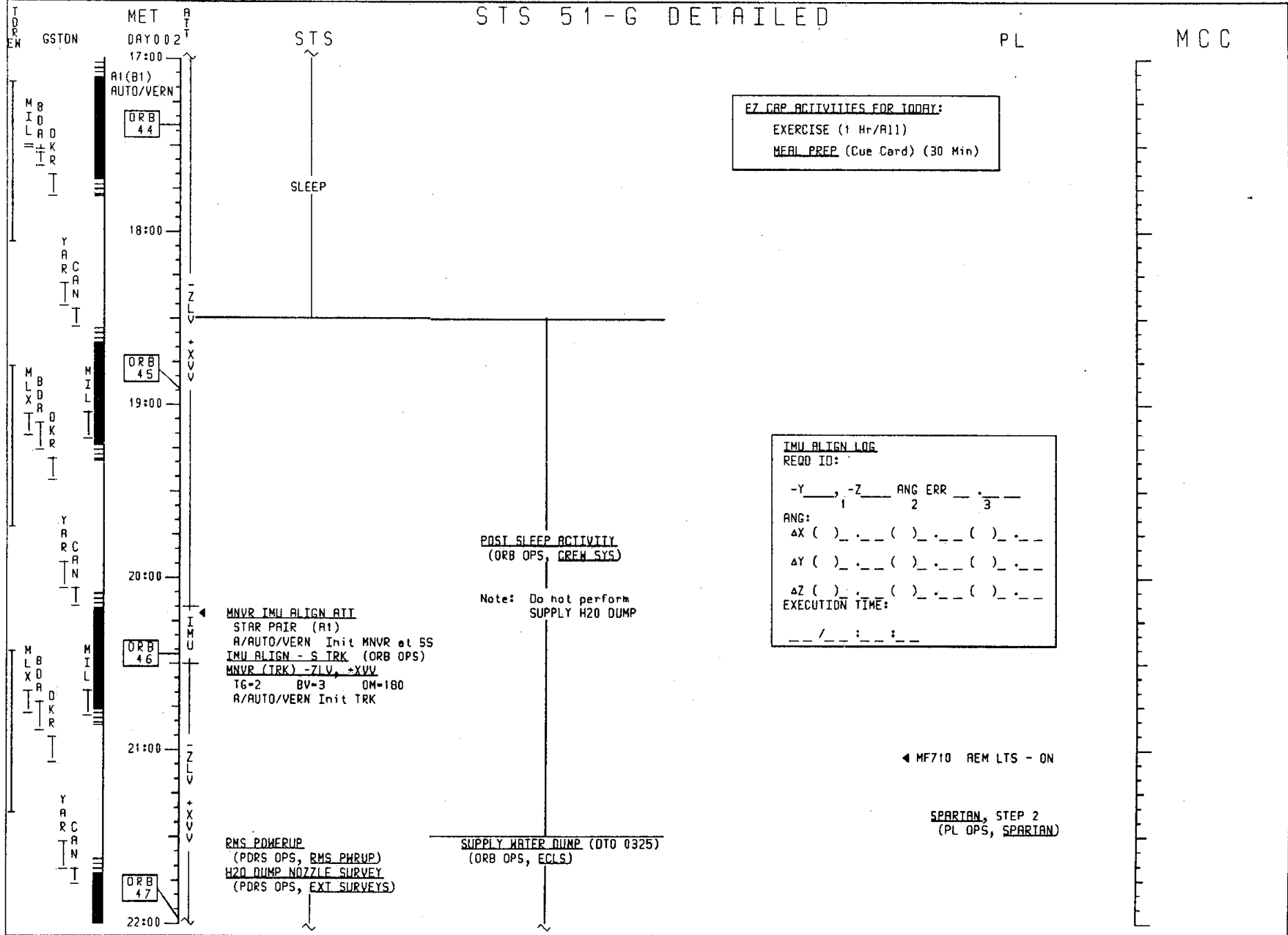
MCC

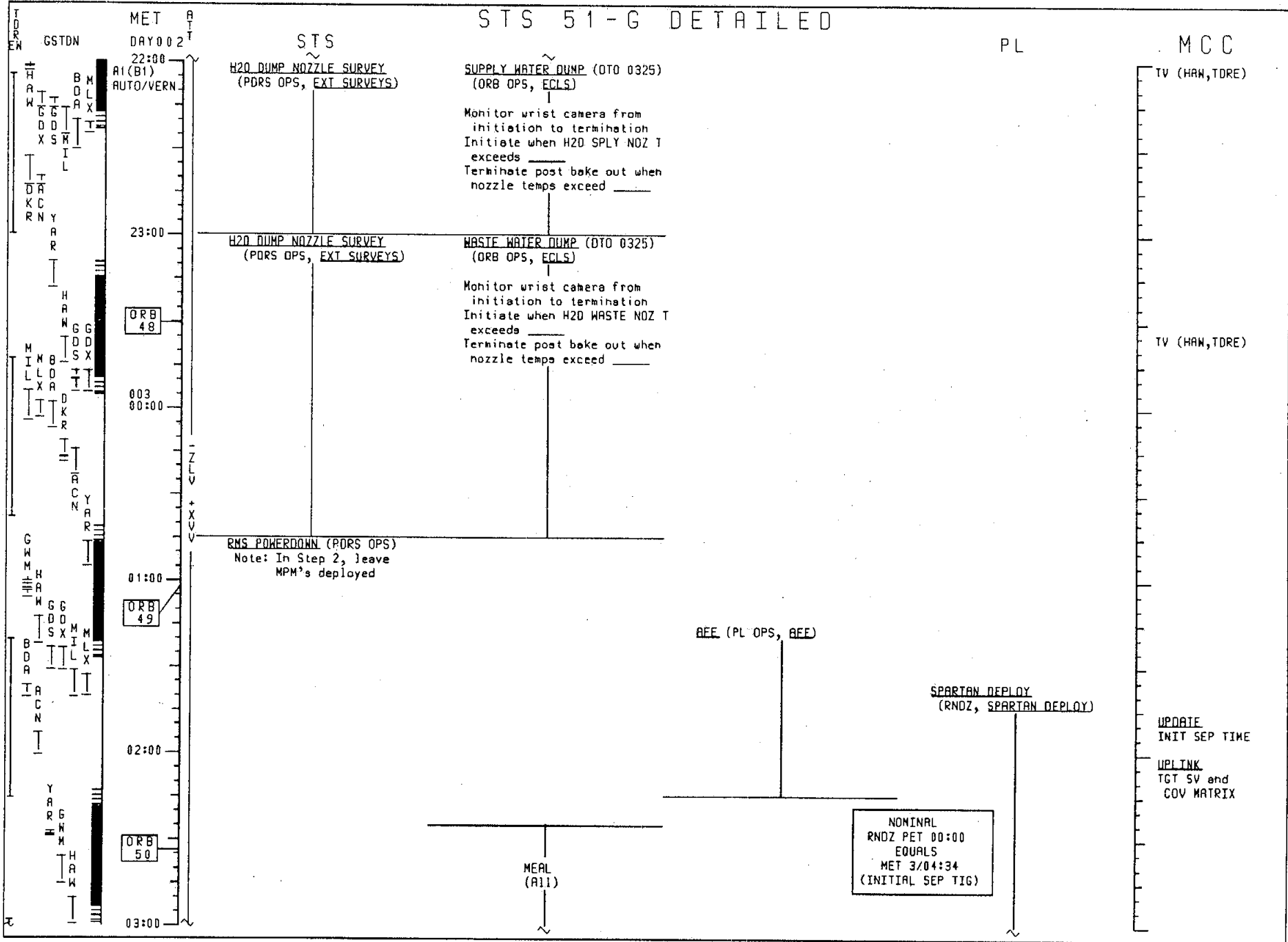


STS 51-G DETAILED

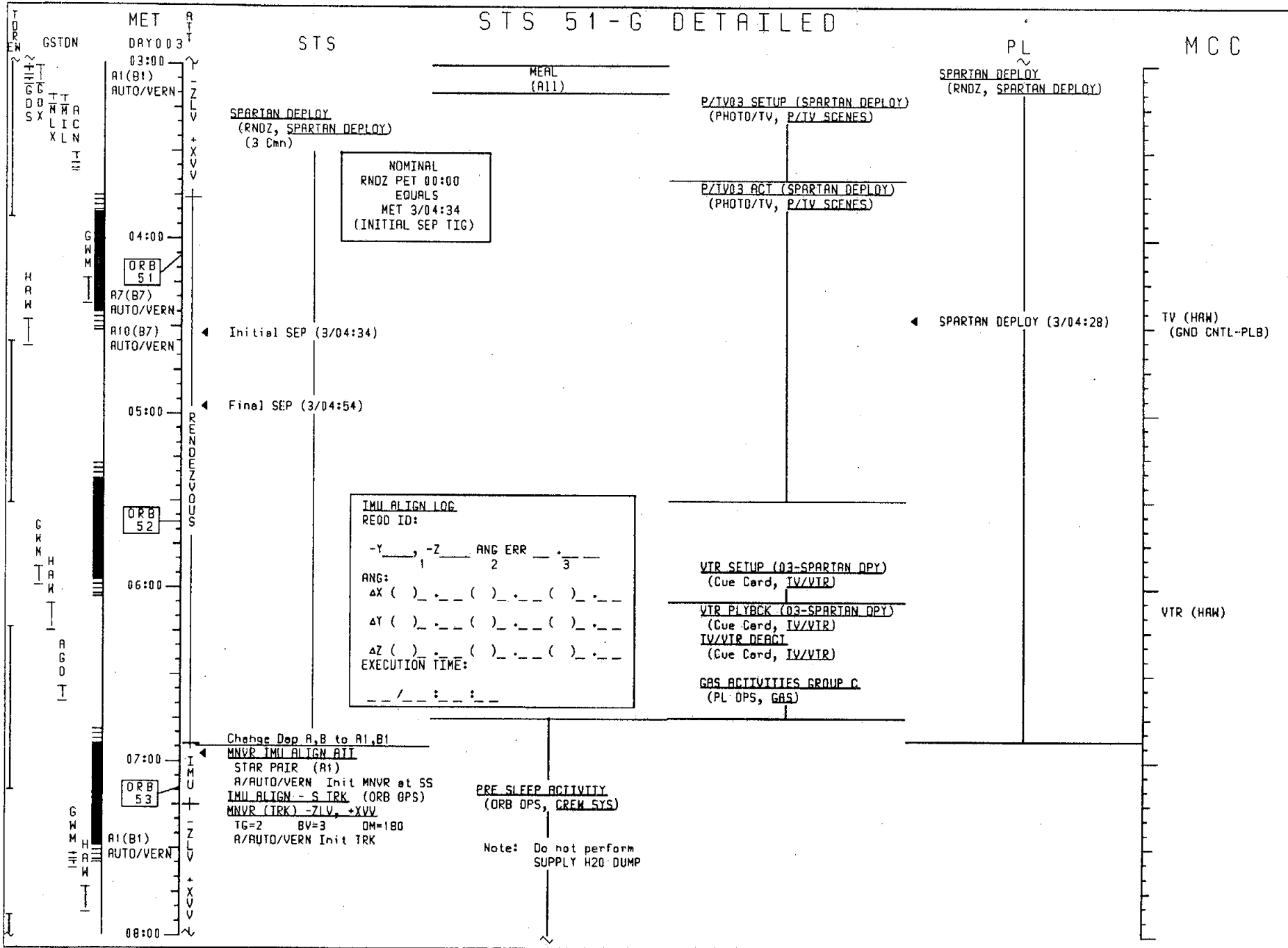
PL

MCC

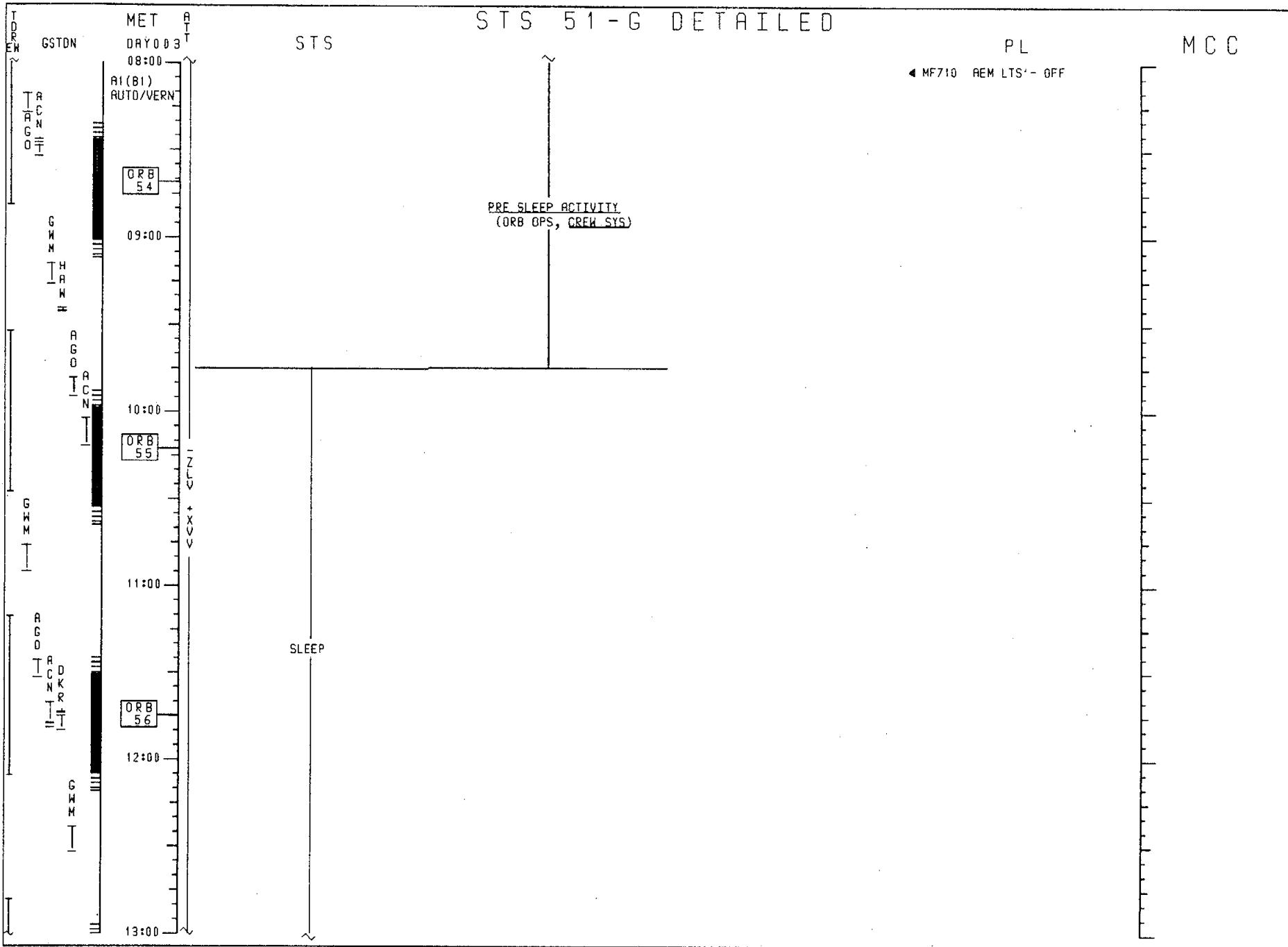




STS 51-G DETAILED



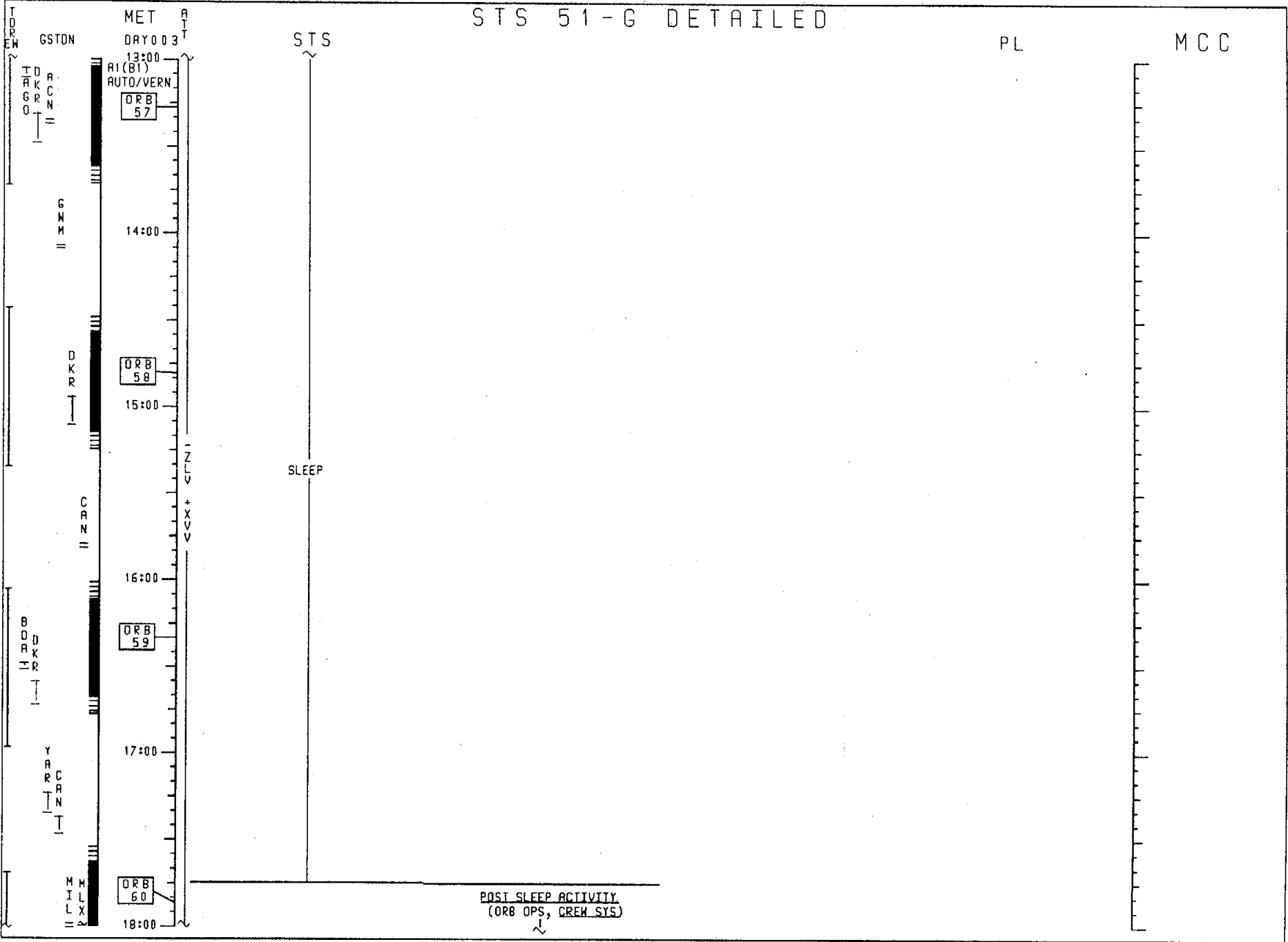
STS 51-G DETAILED



STS 51-G DETAILED

PL

MCC

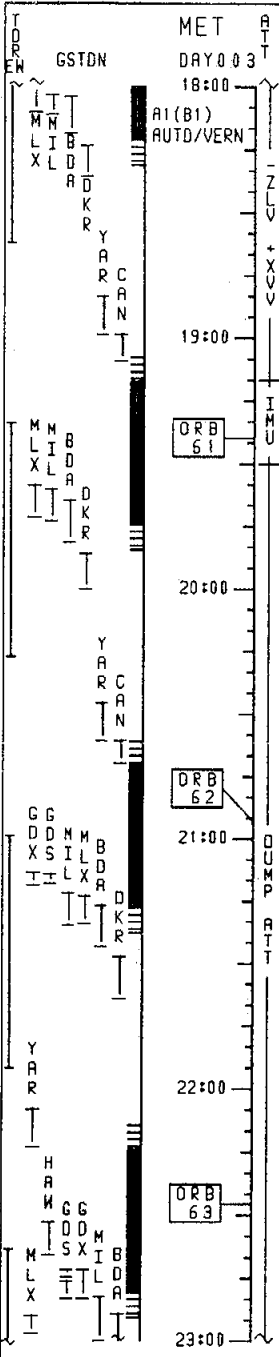


STS 51-G DETAILED

STS

PL

MCC



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

MNVR IMU ALIGN ATT
 STAR PAIR (A1)
 A/AUTO/VERN Init MNVR at SS
IMU ALIGN - S TRK (ORB OPS)
MNVR TO DUMP ATT
 R= P= Y=
 A/AUTO/VERN (:) Init MNVR

POST SLEEP ACTIVITY
 (ORB OPS, CREW SYS)

Note: Do not perform SUPPLY H2O DUMP

FC PURGE - MANUAL (Cue Card)

EZ CAP ACTIVITIES FOR TODAY:

- EXERCISE (1 Hr/A11)
- MEAL PREP (Cue Card) (30 Min)
- RCS REGULATOR RECONFIGURE
07/08 He PRESS A(three)-CL(lb-CL)
B(three)-GPC(lb-OP)
Perform midflt/R.M.(10 Min)
- HEATER RECONFG - A (ORB OPS)
Perform midflt/R.M.(5 Min)
- ECLSS REDUNDANT COMPONENT C/O
(ORB OPS, ECLS) (10 Min)
Inform MCC when complete
- PCS 1(2) CONEIG (ORB OPS)
Config Sys 2 (5 Min/2 Cmn)
Perform midflight
- P/TV OZ SETUP & ACT
(STUDENT EXPT) (50 Min/2 Cmn)
Perform with REM LTS on
- CHARACTERIZATION OF SMS (DSO 455)
(MED, MED DSOs) (30 Min/3 Cmn)

IMU ALIGN LOG
REQD ID:

-Y____, -Z____ ANG ERR ____

1 2 3

ANG:

ΔX () _ _ _ () _ _ _ () _ _ _

ΔY () _ _ _ () _ _ _ () _ _ _

ΔZ () _ _ _ () _ _ _ () _ _ _

EXECUTION TIME:

_ _ / _ _ : _ _ : _ _

RMS POWERUP
 (PDRS OPS, RMS PHRUP)
H2O DUMP NOZZLE SURVEY
 (PDRS OPS, EXT SURVEYS)

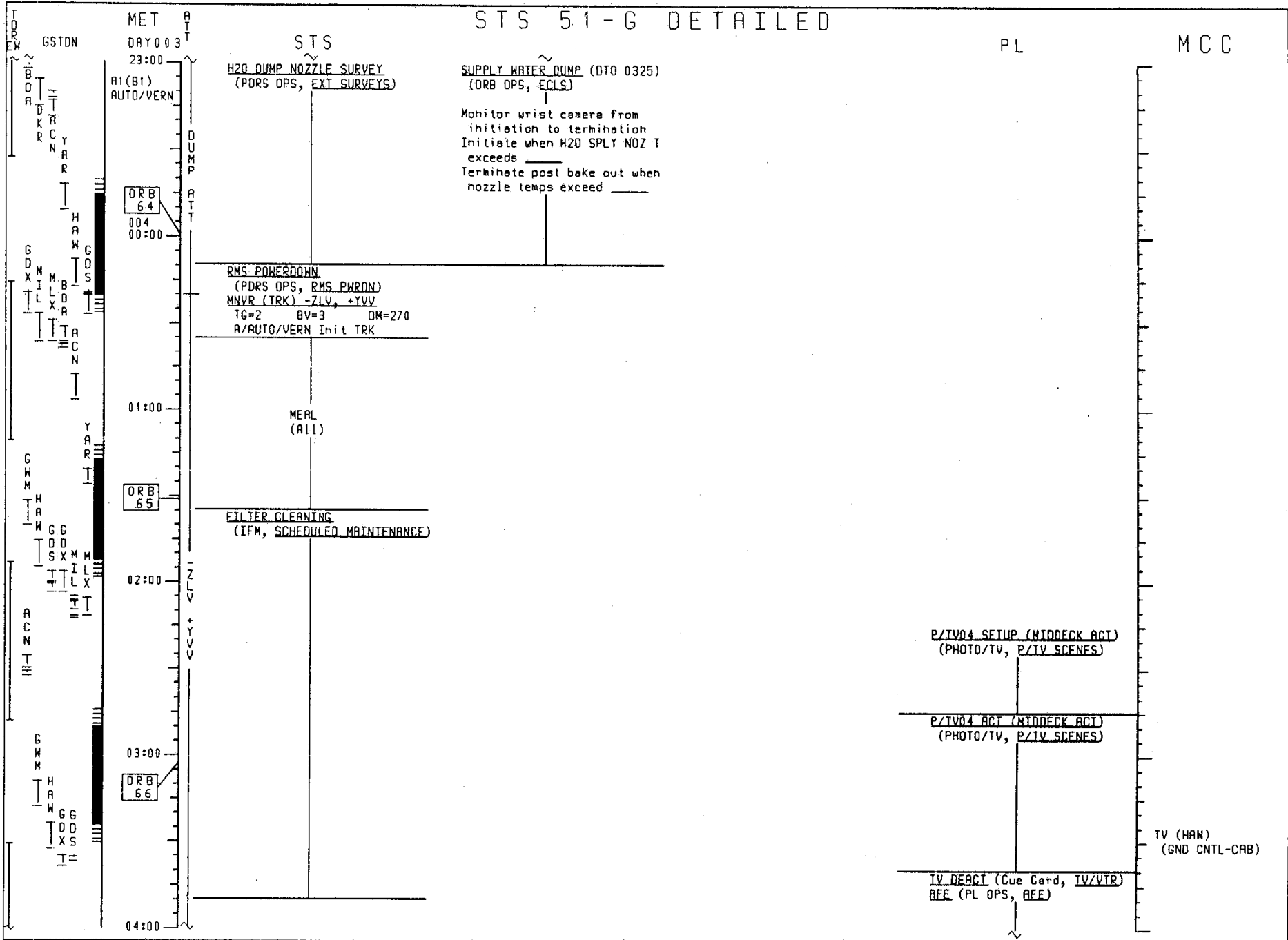
SUPPLY WATER DUMP (OTO 0325)
 (ORB OPS, ECLS)

◀ MF710 REM LTS - ON

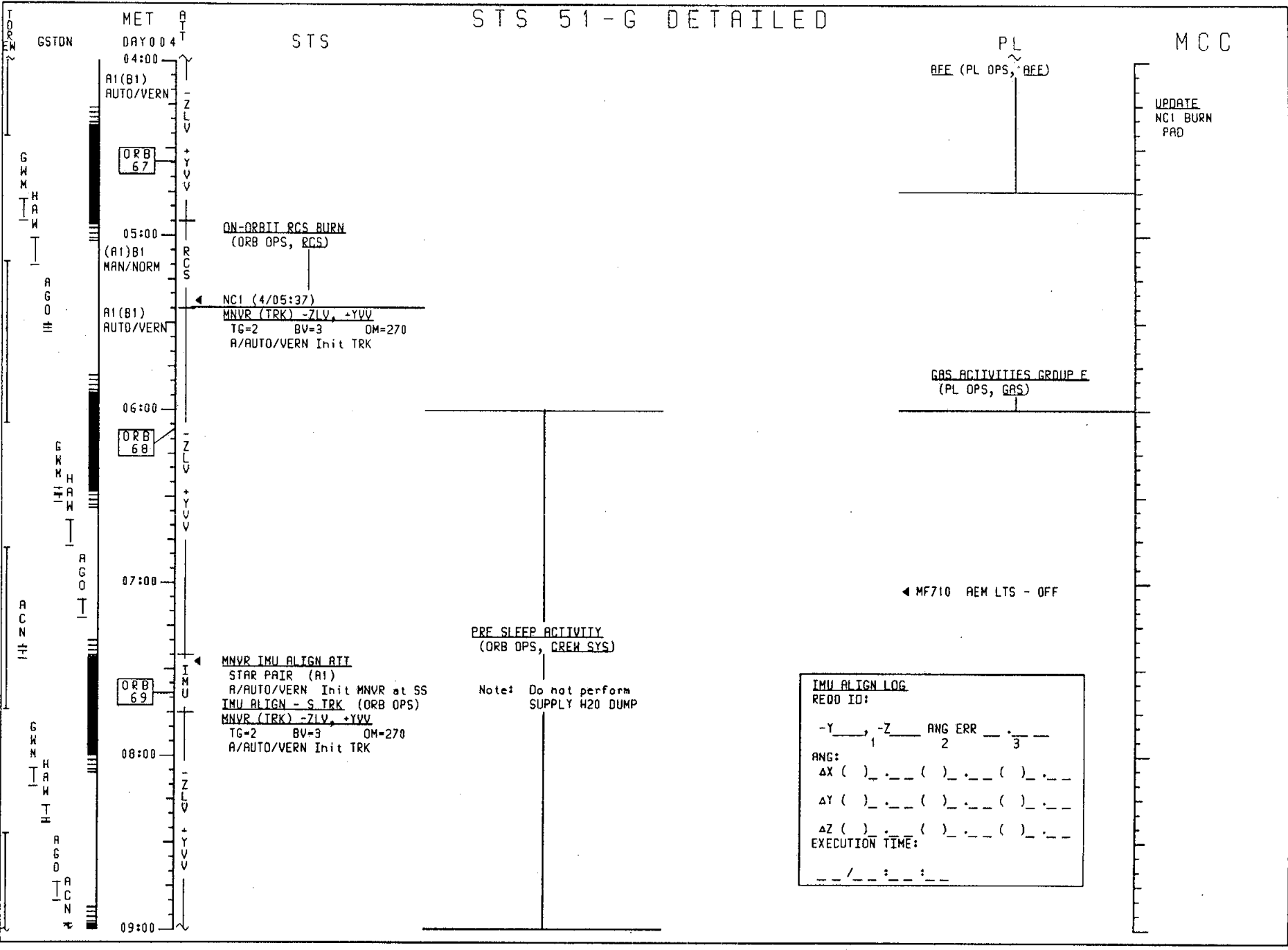
GAS ACTIVITIES GROUP D
(PL OPS, GAS)

TV (HAN, TDRE)

STS 51-G DETAILED



STS 51-G DETAILED



MET DAY 004

04:00
A1(B1)
AUTO/VERN

ORB 67

05:00
(A1)B1
MAN/NORM

ON-ORBIT RCS BURN
(ORB OPS, RCS)

NC1 (4/05:37)
MNVR (TRK) -7LV, +YVV
TG=2 BV=3 OM=270
A/AUTO/VERN Init TRK

06:00

ORB 68

07:00

ORB 69

MNVR IMU ALIGN ATT
STAR PAIR (A1)
A/AUTO/VERN Init MNVR at SS
IMU ALIGN - S TRK (ORB OPS)
MNVR (TRK) -7LV, +YVV
TG=2 BV=3 OM=270
A/AUTO/VERN Init TRK

PRE SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Note: Do not perform
SUPPLY H2O DUMP

09:00

MCC

PL
AEE (PL OPS, AFE)

UPDATE
NC1 BURN
PAD

GAS ACTIVITIES GROUP E
(PL OPS, GAS)

MF710 REM LTS - OFF

IMU ALIGN LOG

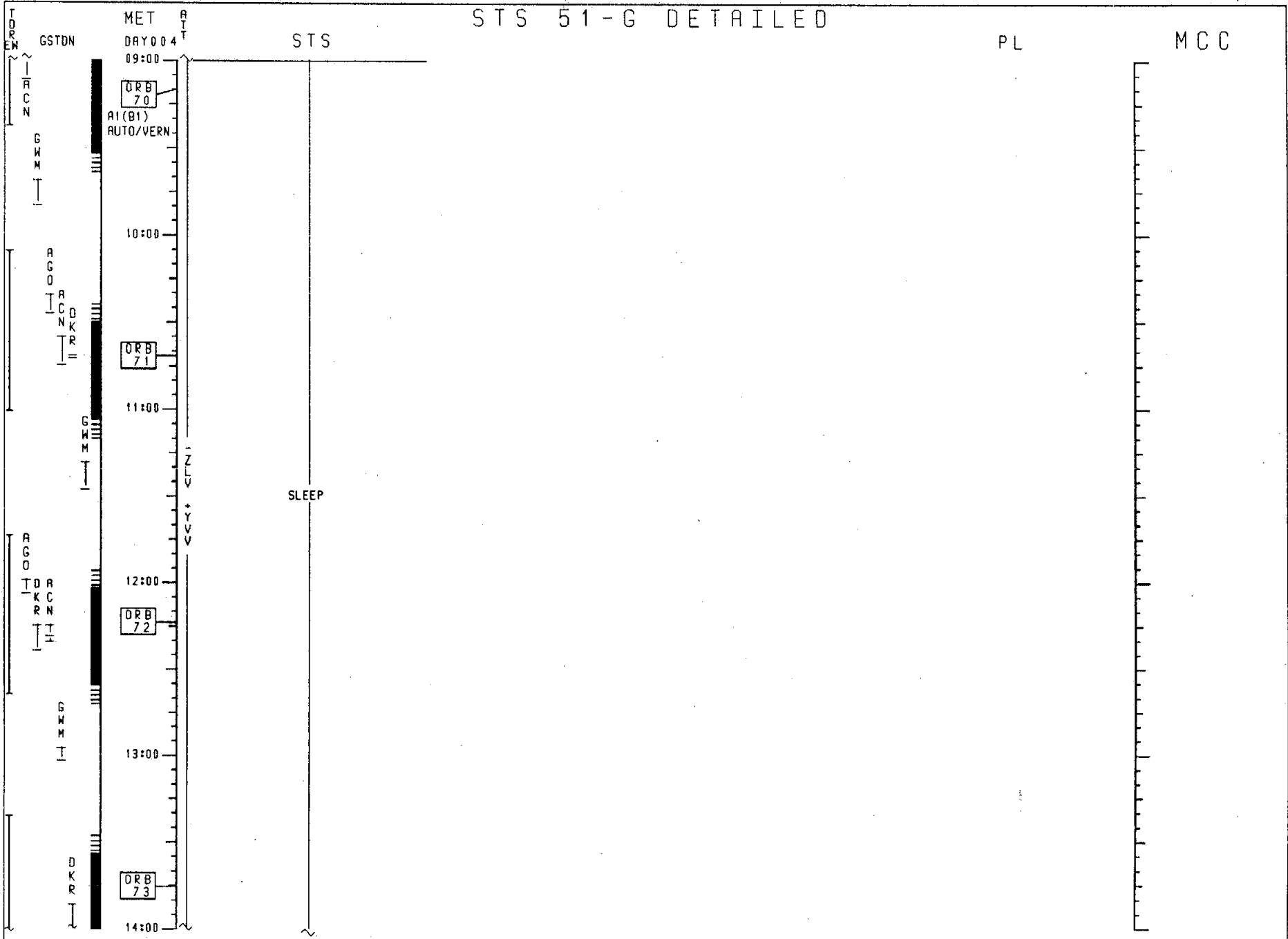
REDD ID:

-Y ___ -Z ___ ANG ERR ___
 1 2 3

ANG:
ΔX () () ()
ΔY () () ()
ΔZ () () ()

EXECUTION TIME:
___/___:___:___

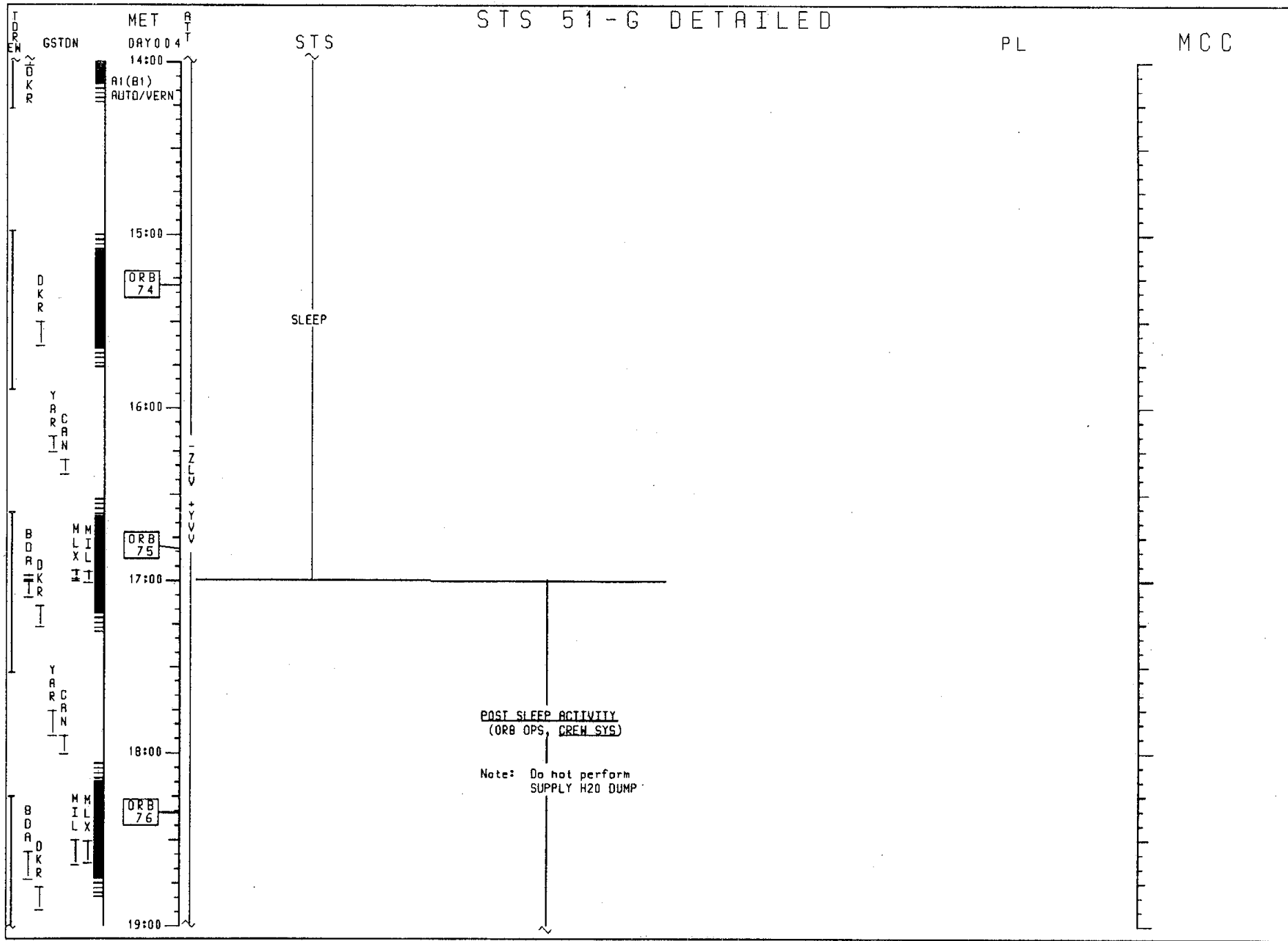
STS 51-G DETAILED



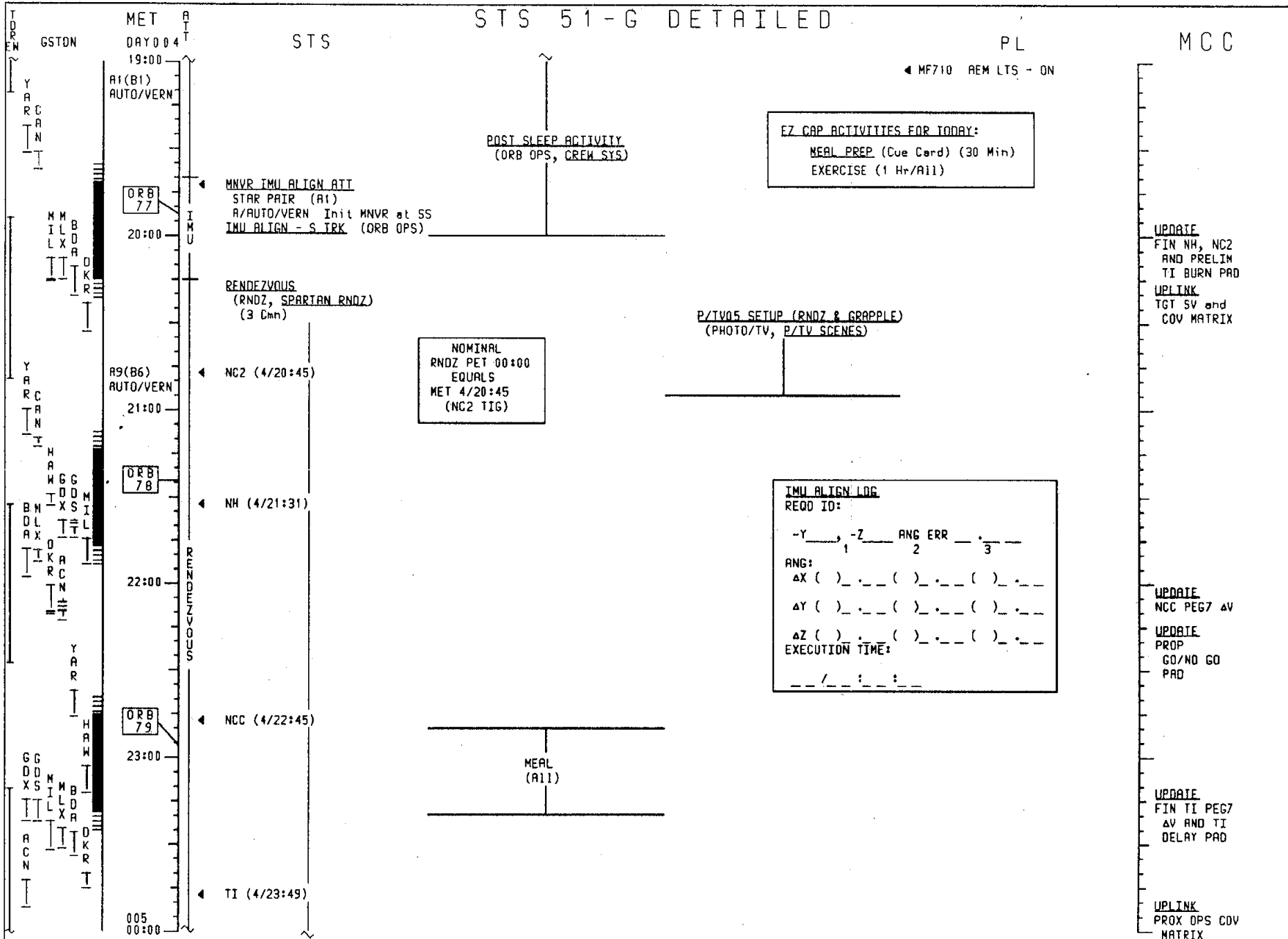
STS 51-G DETAILED

PL

MCC



STS 51-G DETAILED



STS

PL

MCC

◀ MF710 REM LTS - ON

EZ CAP ACTIVITIES FOR TODAY:
 MEAL PREP (Cue Card) (30 Min)
 EXERCISE (1 Hr/All)

POST SLEEP ACTIVITY
 (ORB OPS, CREW SYS)

MNVR TMU ALIGN ATT
 STAR PAIR (A1)
 A/AUTO/VERN Init MNVR at 55
 TMU ALIGN - S TRK (ORB OPS)

RENDEZVOUS
 (RNDZ, SPARTAN RNDZ)
 (3 Dmh)

P/TV05 SETUP (RNDZ & GRAPPLE)
 (PHOTO/TV, P/TV SCENES)

NOMINAL
 RNDZ PET 00:00
 EQUALS
 MET 4/20:45
 (NC2 TIG)

◀ NC2 (4/20:45)

TMU ALIGN LOG
 REQD ID: _____
 -Y _____, -Z _____ ANG ERR _____
 1 2 3
 ANG:
 ΔX () . () . () .
 ΔY () . () . () .
 ΔZ () . () . () .
 EXECUTION TIME:
 ___ / ___ : ___ : ___

◀ NH (4/21:31)

MEAL
 (All)

◀ NCC (4/22:45)

◀ TI (4/23:49)

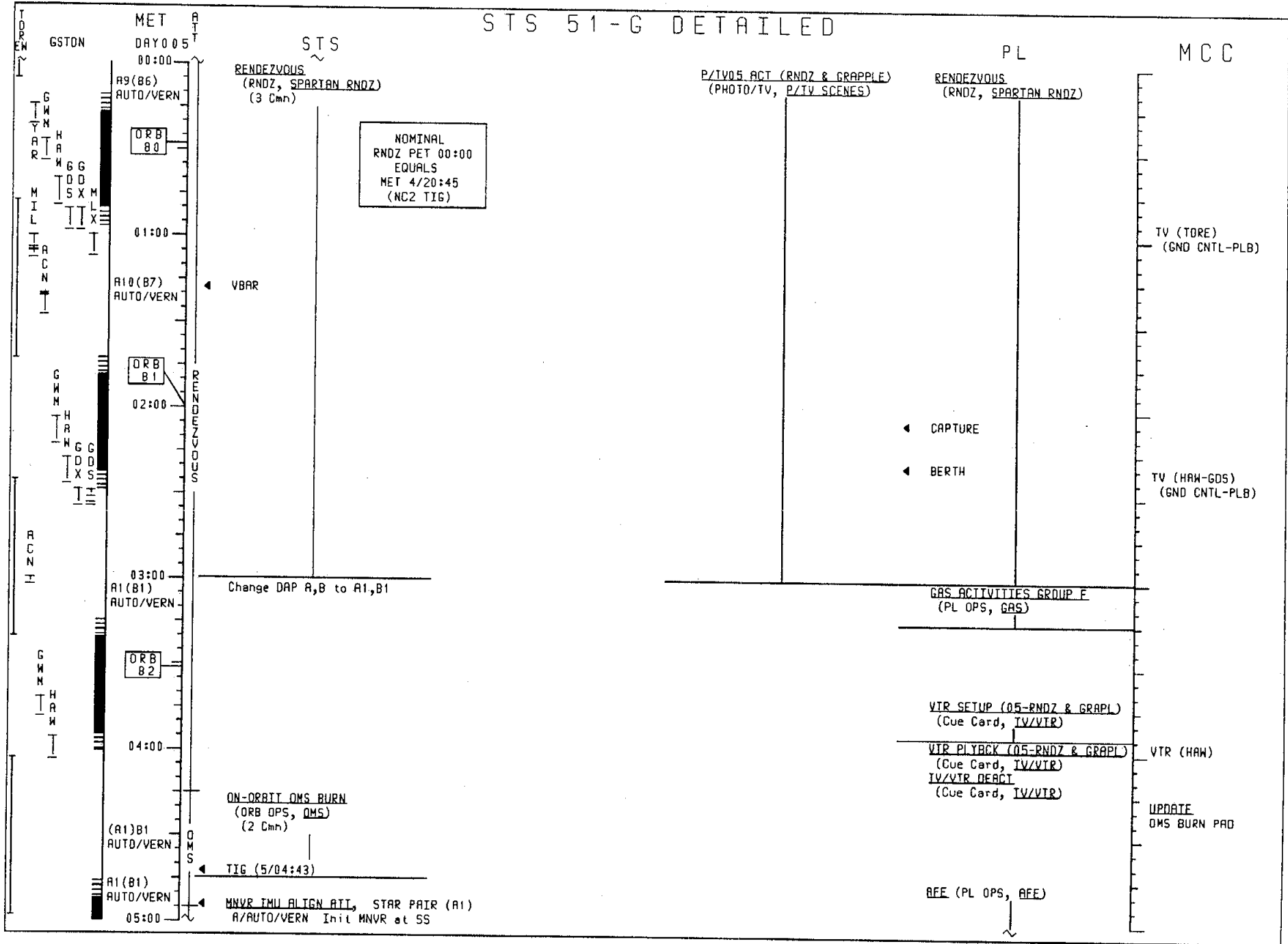
UPDATE
 FIN NH, NC2
 AND PRELIM
 TI BURN PAD
UPLINK
 TGT SV and
 COV MATRIX

UPDATE
 NCC PEG7 ΔV
UPDATE
 PROP
 GO/NO GO
 PAD

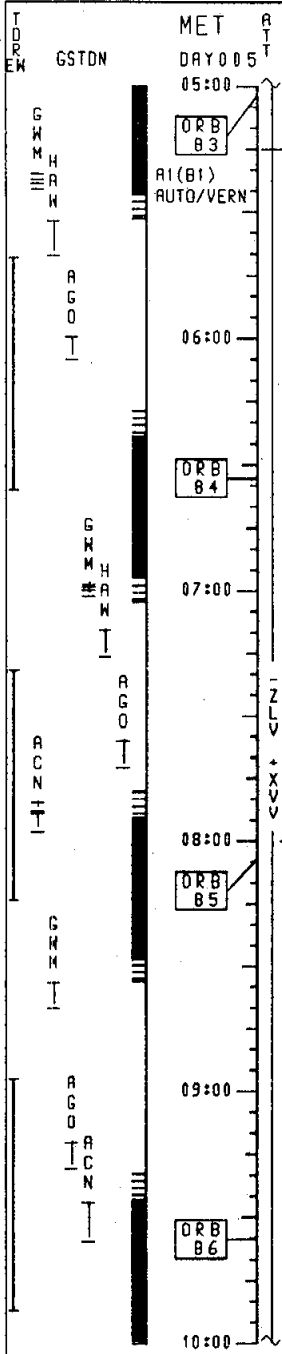
UPDATE
 FIN TI PEG7
 ΔV AND TI
 DELAY PAD

UPLINK
 PROX OPS COV
 MATRIX

STS 51-G DETAILED



STS 51-G DETAILED



STS
 MNVR IMU ALIGN ATT
 STAR PAIR (A1)
 A/AUTO/VERN Init MNVR at SS
 IMU ALIGN - S TRK (ORB OPS)
 MNVR (TRK) -ZLV, +XVV
 TG-2 BV-3 DM-180
 A/AUTO/VERN Init TRK

PRE SLEEP ACTIVITY
 (ORB OPS, CREW SYS)

Note: Do not perform
 SUPPLY H2O DUMP

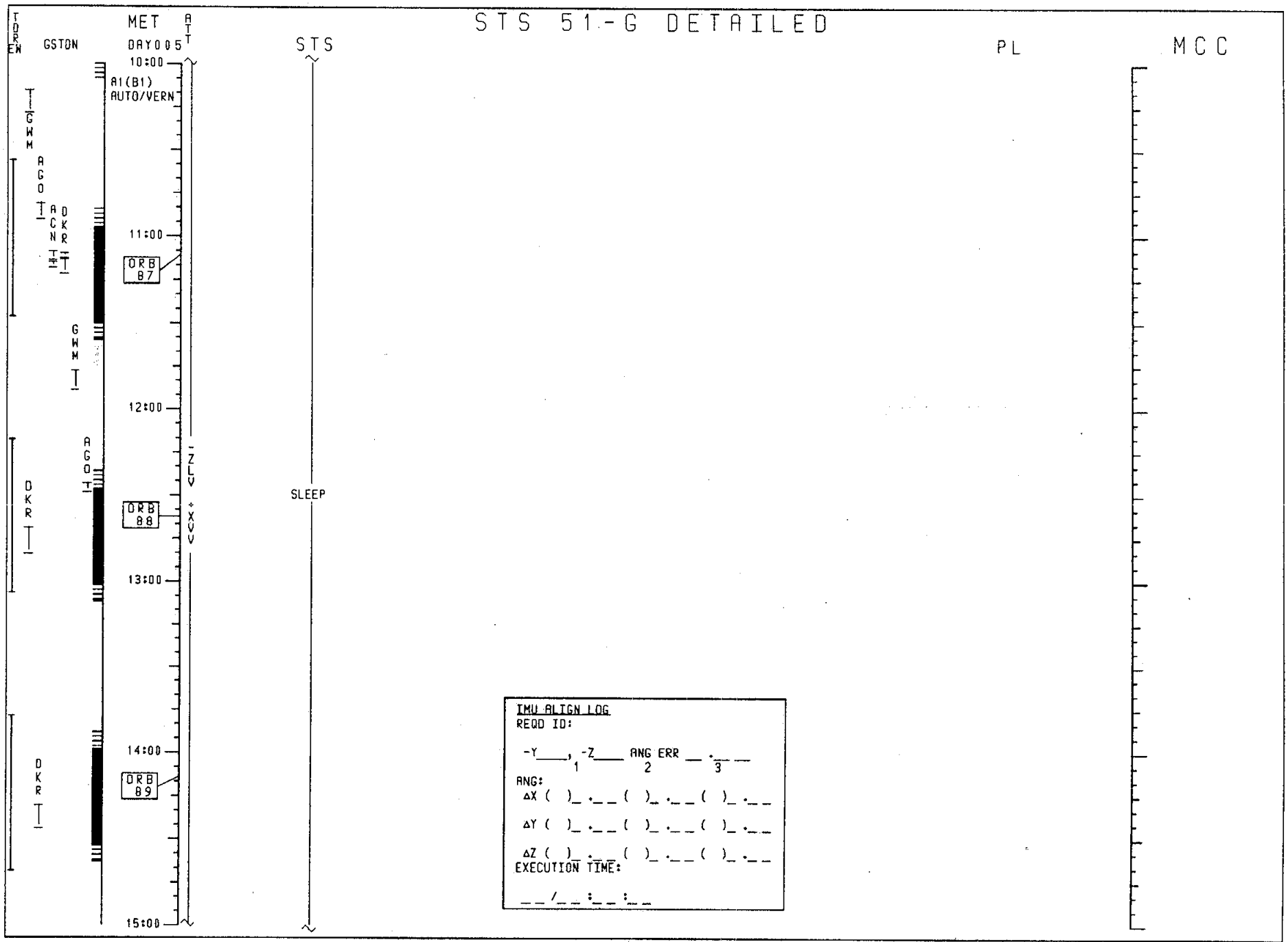
PL
 REF (PL OPS, REF)

MCC

◀ MF710 REM LTS - OFF

IMU ALIGN LOG
 REQD ID:
 -Y____, -Z____ ANG ERR ____
 1 2 3
 ANG:
 ΔX () _ . () _ . () _ .
 ΔY () _ . () _ . () _ .
 ΔZ () _ . () _ . () _ .
 EXECUTION TIME:
 _ / _ : _ : _

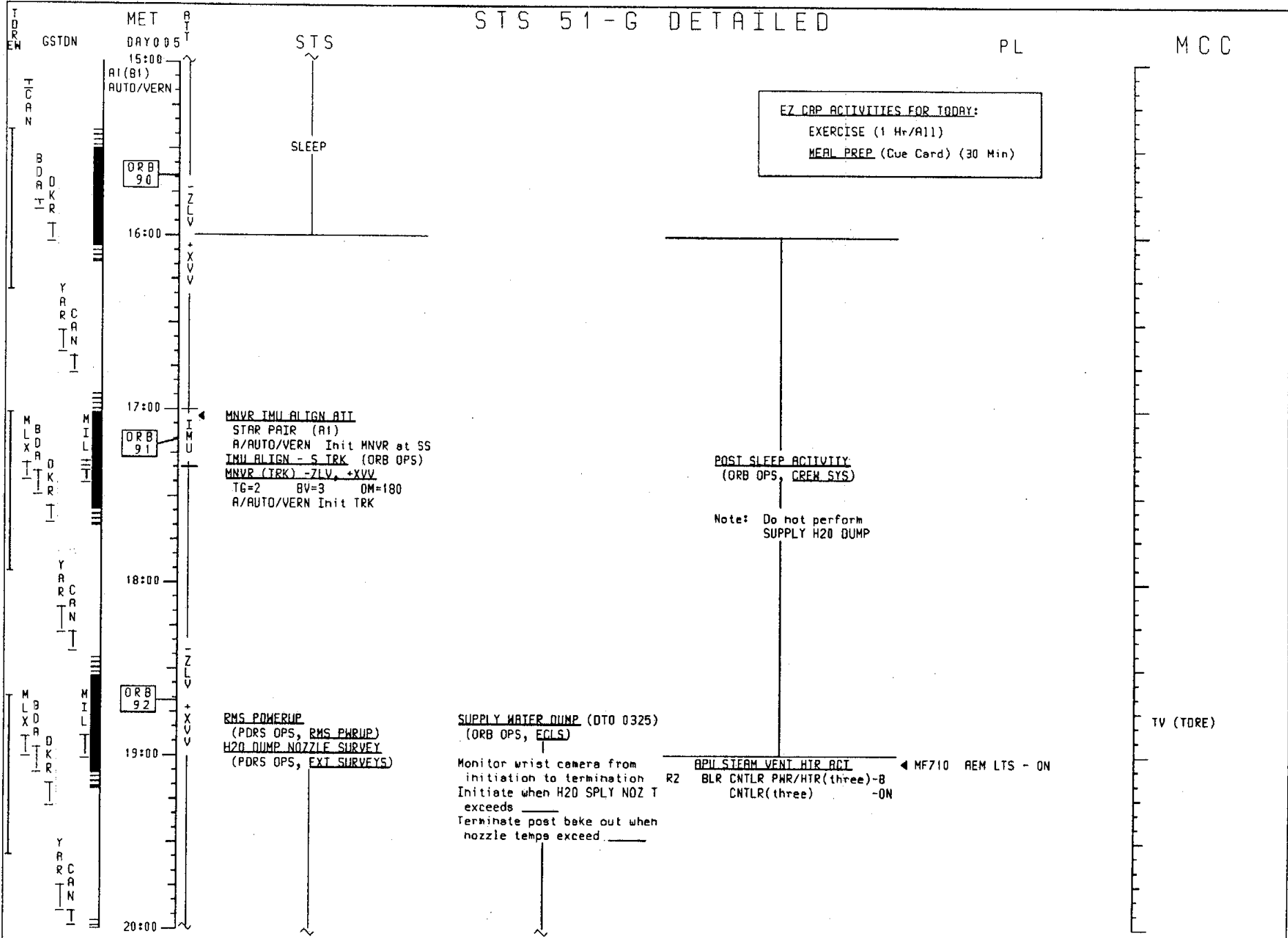
STS 51-G DETAILED



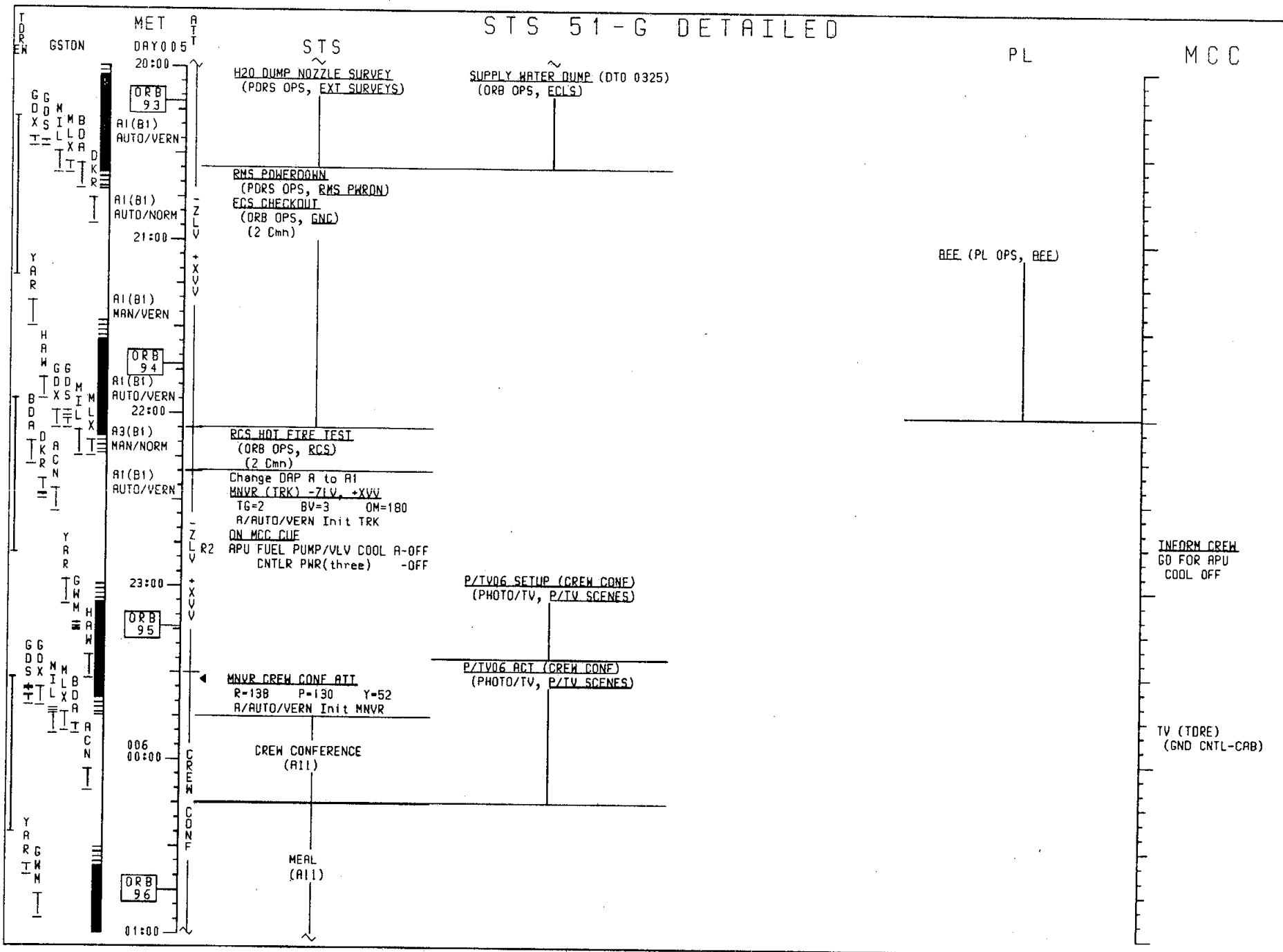
STS 51-G DETAILED

PL

MCC



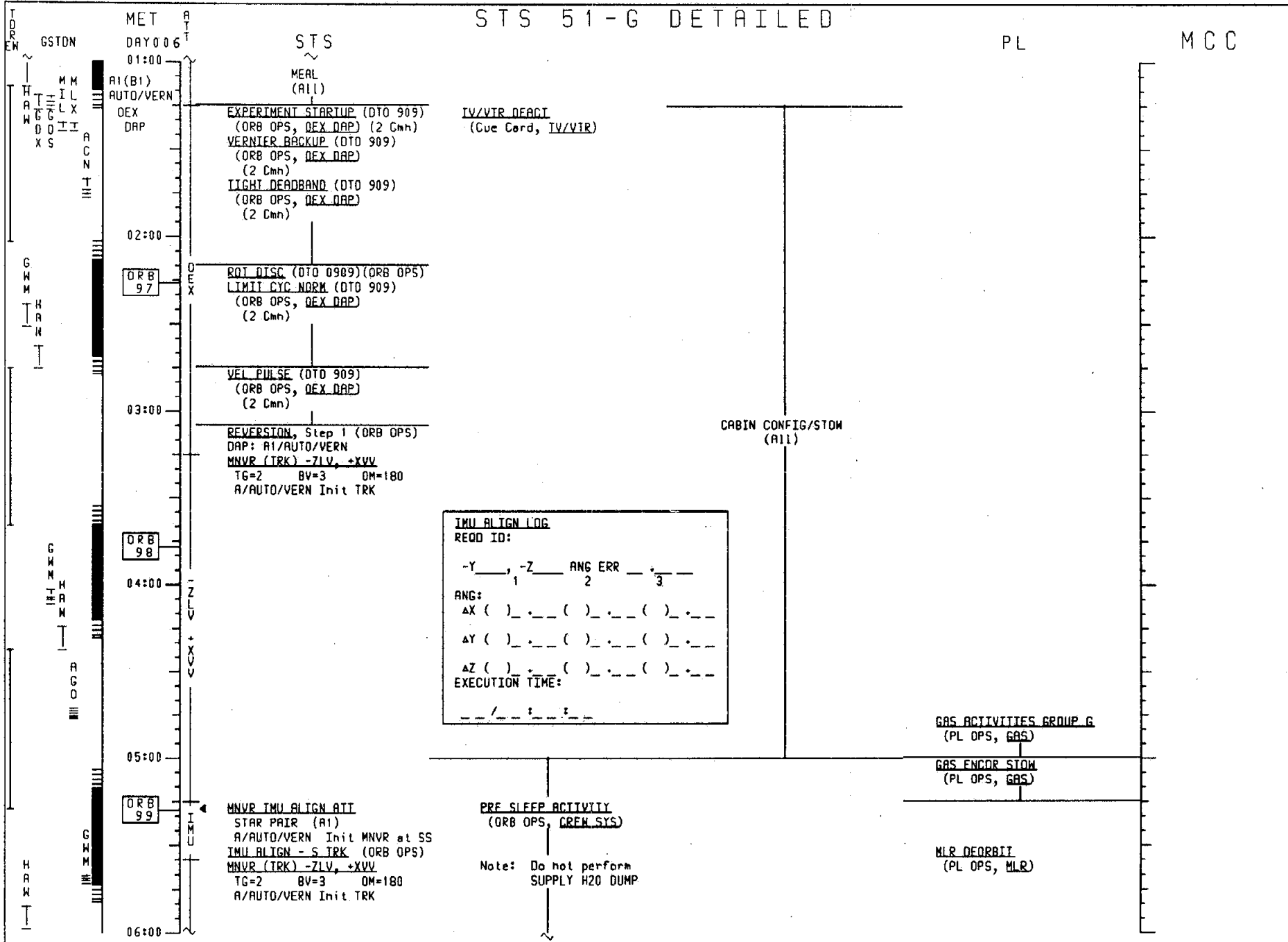
STS 51-G DETAILED

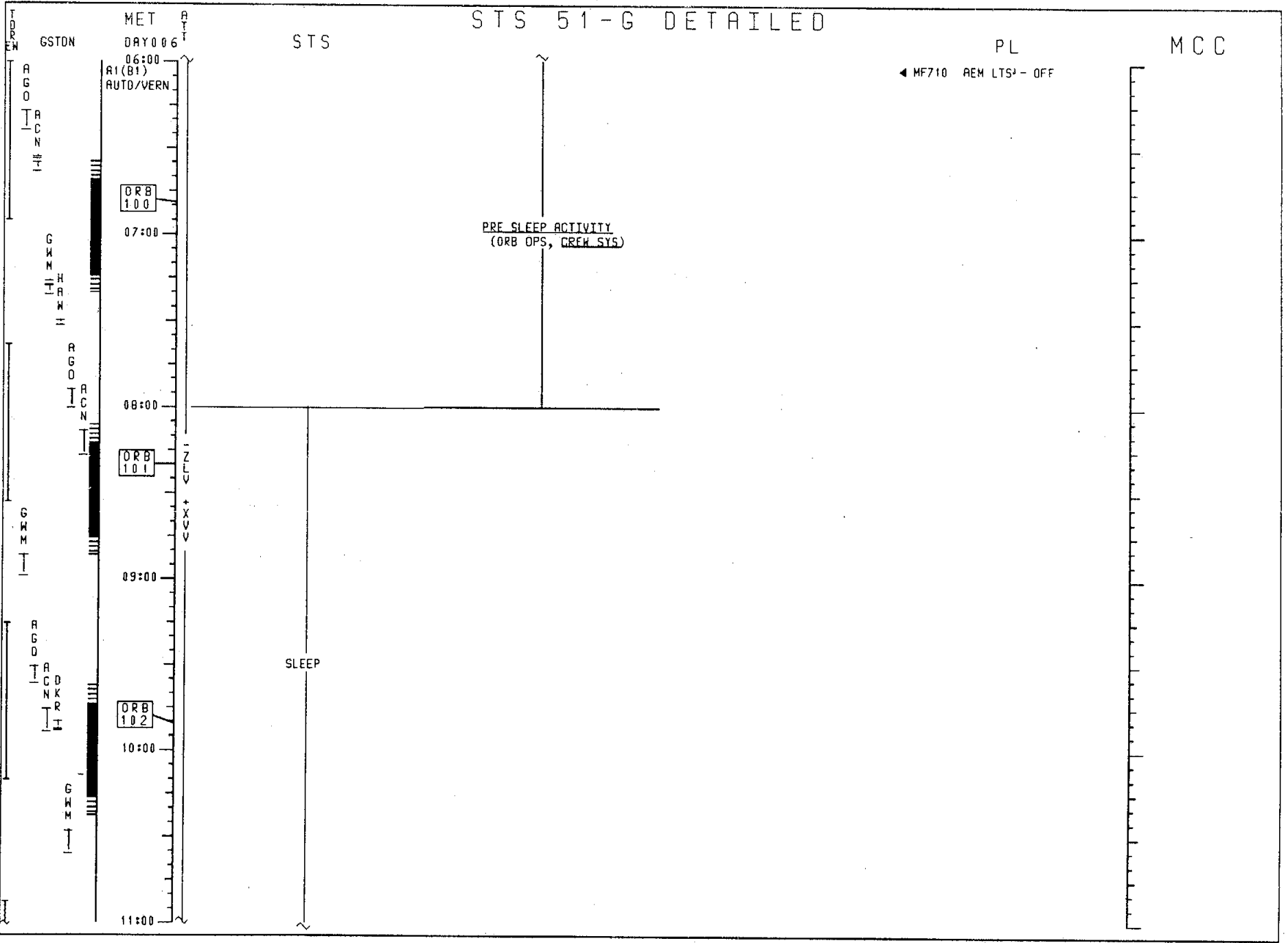


STS 51-G DETAILED

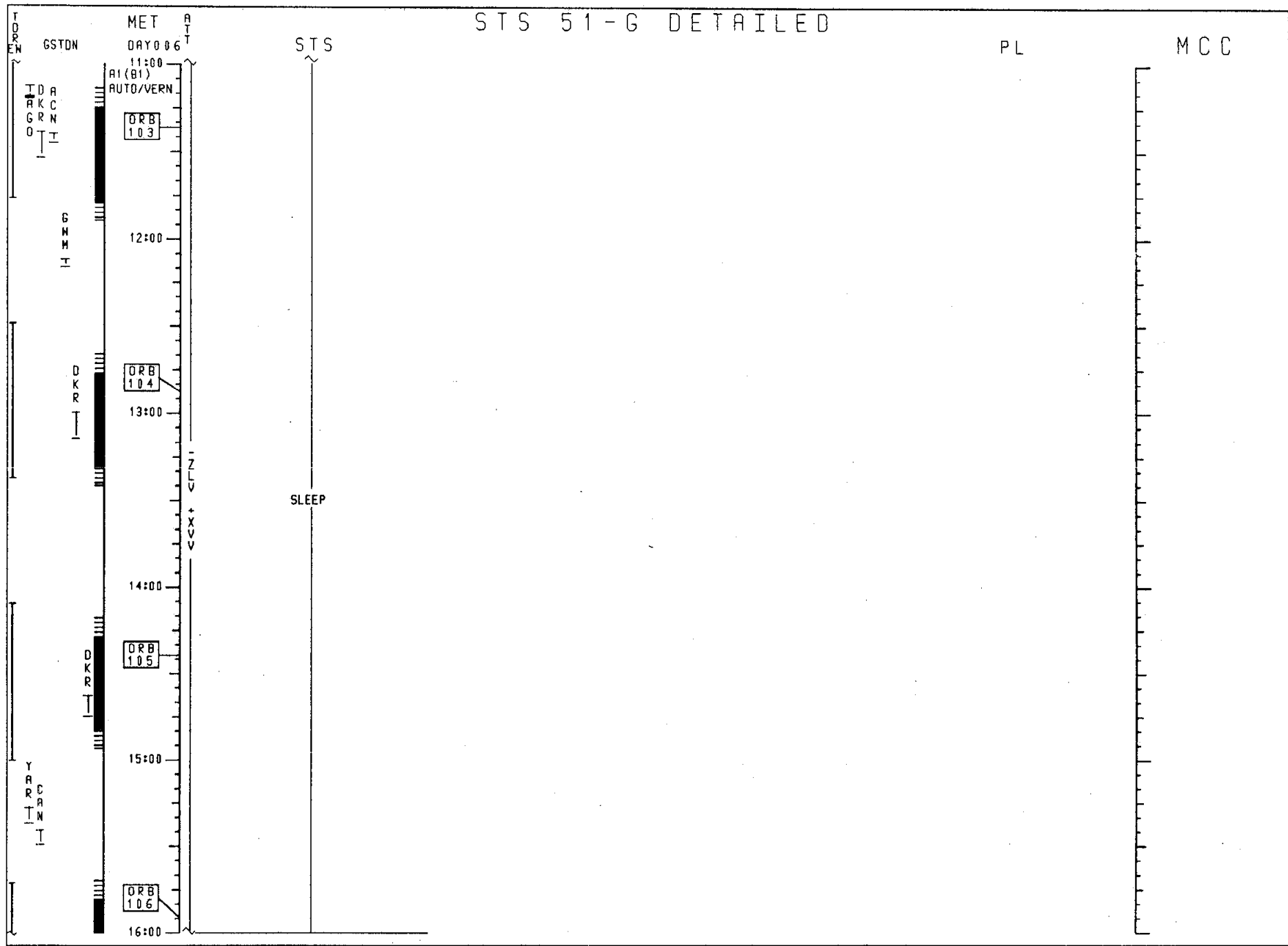
PL

MCC





STS 51-G DETAILED



STS 51-G DETAILED

STS

PL

MCC

TDR EN
 GSTDN
 MET DAY 006
 16:00
 A1 (B1)
 AUTO/VERN
 ZLV
 +XVV
 17:00
 ORB 107
 IMU
 18:00
 ORB 108
 XSI
 19:00
 ORB 109
 IMU
 20:00
 21:00

TT
 MN
 LI
 XL
 B
 D
 T
 A
 D
 T
 K
 R
 Y
 A
 R
 C
 A
 N
 T
 M
 M
 I
 L
 X
 L
 B
 D
 A
 D
 T
 K
 R
 Y
 A
 R
 C
 A
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 M
 M
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 L
 X
 L
 B
 D
 A
 D
 T
 K
 R
 Y
 A
 R
 C
 A
 N
 T
 H
 A
 W
 G
 G
 O
 O
 D
 M
 I
 B
 M
 L
 O
 L
 A
 X
 I
 L
 A
 X
 I
 L
 A
 X
 I
 L
 A
 X

EZ CAP ACTIVITIES BEFORE LEAVING CAP:

AIR SAMPLE
Rcd MET on bottle

FLUID LOADING PREP
Fill 4 drink containers with
8 oz H2O each (per person)

MNVR IMU ALIGN ATT
STAR PAIR (A1)
A/AUTO/VERN Init MNVR at 55
IMU ALIGN - S TRK (ORB OPS)
MNVR (TRK) - XSI ATT
P=184 Y=0
TG=4 BV=5 OM=0
A/AUTO/VERN (17:40) Init TRK

POST SLEEP ACTIVITY
(ORB OPS, CREW SYS)

Note: Do not perform
SUPPLY H2O DUMP

Update: CRT TIMER SETUP PAD
in NOMINAL DEORBIT PREP

SPARTAN HIR DEACT
R1 PL AFT MNB - OFF

Go to DEORBIT PREP at 6/19:15

UPDATE
CRT TIMER
SETUP PAD

IMU ALIGN LOG
REDD ID:

-Y ____, -Z ____, ANG ERR __. __
1 2 3

ANG:
ΔX () . () . () .
ΔY () . () . () .
ΔZ () . () . () .

EXECUTION TIME:
_ / _ : _ : _

CONTINGENCY TIMELINES

CONTINGENCY
TIMELINES

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HIGH PRIORITY MISSION
(TBS)

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CONSUMABLES CURVES
(TBS)

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

STS 51-G DAP BOOK

DAP A CONFIGURATIONS.....	6-2
DAP B CONFIGURATIONS.....	6-3
STS 51-G DAP BOOK.....	6-4

3
C
P
E
C

DAP A CONFIGURATIONS

DAP BOOK

	A1*	A2	A3	A4	A5	A6	A7	A9	A10
<u>TRANSLATION</u>									
PULSE ft/sec	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.10	0.05
<u>ROTATION</u>									
DSC RT NORM °/sec	0.200	0.400	0.200	0.200	0.200	0.200	0.100	0.200	0.200
VERN °/sec	0.200	0.400	0.200	0.008	0.200	0.200	0.008	0.200	0.200
PULSE NORM °/sec	0.10	0.10	0.30	0.10	0.10	0.10	0.10	0.10	0.10
VERN °/sec	0.010	0.010	0.010	0.010	0.050	0.010	0.010	0.010	0.010
COMP NORM °/sec	.00	.00	.00	.00	.00	.00	.00	.00	.00
VERN °/sec	.000	.000	.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	1.00	2.00	2.00
VERN (deg)	1.000	1.000	1.000	0.070	1.000	1.000	0.500	1.000	1.000
RATE NORM °/sec	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	.010	.020	.020
<u>JET OPT</u>									
P	1	1	3	1	1	3	3	1	1
Y	1	1	3	3	1	3	3	1	1
<u>CNTL ACCEL</u>									
	0	0	0	0	0	0	2	0	0

*I-LOADED OPS-2 DAP Configuration

DAP B CONFIGURATIONS

	B1*	B2	B3	B4	B5	B6	B7
<u>TRANSLATION</u>							
PULSE ft/sec	0.02	0.02	0.02	0.02	0.02	0.05	0.01
<u>ROTATION</u>							
DSC RT NORM %/sec	0.500	0.200	0.200	0.200	0.200	0.500	0.200
VERN %/sec	0.200	0.200	0.200	0.008	0.016	0.200	0.200
PULSE NORM %/sec	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
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)	3.00	3.00	3.00	0.30	3.00	2.00	2.00
VERN (deg)	1.000	1.000	1.000	0.100	0.033	1.000	1.000
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	3	1	1	3	1	1
Y	1	3	1	3	3	1	1
<u>CNTL ACCEL</u>	0	0	0	0	0	0	0

*I-LOADED OPS-2 DAP Configuration

DAP BOOK

HOOK
VELCRO

CAP/51-G/O/BAS

UNIV PTG	
TGT ID = 1	Orbiting Vehicle
= 2	Earth ctr
= 3	Earth tgt
	Input LAT (± 90)
	LON (± 180 , + = East)
	ALT (+20000.0)
	(-3444.0)
= 4	Sun ctr
= 5	Celestial tgt
	Input RA (0-359.99)
	DEC (± 90)
= 11-110	Nav Stars
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 \rightarrow	OM (0-359.99)
MON AXIS = 1	+X
2	-X

CAP/51-G/O/BAS

G20 DAP CONFIG			
CNTL ACCEL = 0	Orbiter alone	JET OPT = 1	Normal
= 1	SPARTAN at high hover	= 2	Nose only
= 2	SPARTAN at mid bay	= 3	Tail only
= 3	SPARTAN overhead		

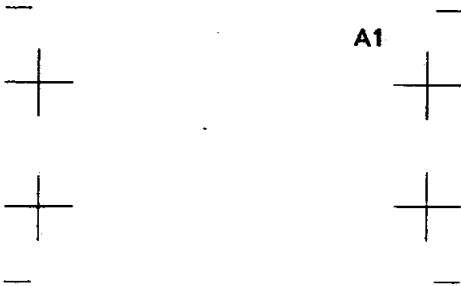
TOP



<u>DAP</u>	<u>PURPOSE</u>
------------	----------------

- A1 - NOMINAL
IMU ALIGN
LOSS OF VERN
- A2 - PTC
- A3 - RCS HOT FIRE
- A4 - GG
- A5 - IMU ALIGN (ROTATING)
- A6 - LOSS OF VERN
(TAIL ONLY)
- A7 - SPARTAN RELEASE
- A9 - RENDEZVOUS
- A10 - PROX OPS
- A11 - (Blank)

CAP/51-G/O/BAS



A1

TOP



DAP A1

A1

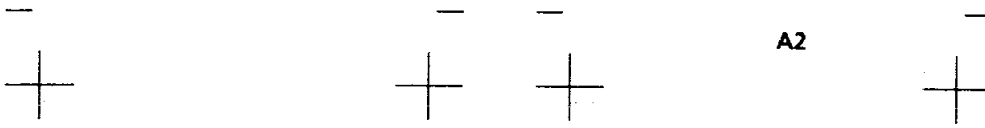
PURPOSE:

NOMINAL
IMU ALIGN
LOSS OF VERN
(NOSE & TAIL)

0.1 0	1	TRANSLATION PULSE
0.2 0 0	2	ROTATION DSC RT NORM
0.2 0 0	3	VERN
0.1 0	4	PULSE NORM
0.0 1 0	5	VERN
.0 0 0	6	COMP NORM
.0 0 0	7	VERN
5.0 0	8	DEADBAND ATT NORM
1.0 0 0	9	VERN
0.2 0	10	RATE NORM
.0 2 0	11	VERN
1	12	JET OPT P
1	13	Y
0	14	CNTL ACCEL

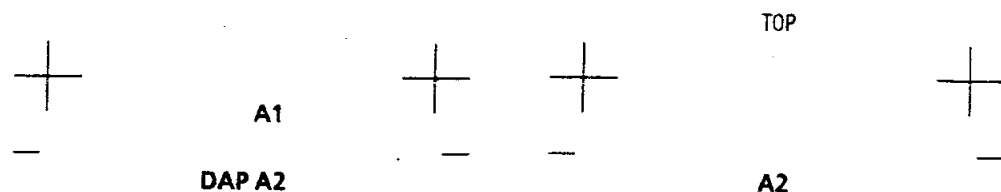
CAP/51-G/O/BAS

CAP/51-G/O/BAS



A2

TOP

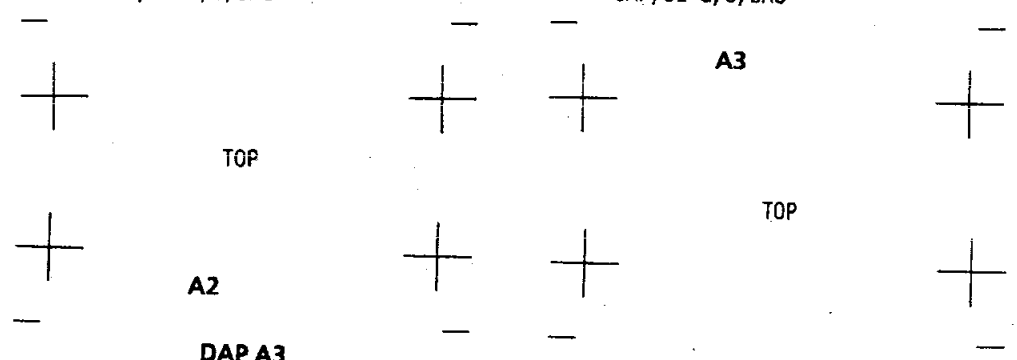


PURPOSE:
PTC

0.1 0	1	TRANSLATION	
		PULSE	
ROTATION			
0.4 0 0	2	DSC RT	NORM
0.4 0 0	3		VERN
0.1 0	4	PULSE	NORM
0.0 1 0	5		VERN
.0 0 0	6	COMP	NORM
.0 0 0	7		VERN
DEADBAND			
1.0 0	8	ATT	NORM
1.0 0 0	9		VERN
0.2 0	10	RATE	NORM
0.2 0	11		VERN
1	12	JET OPT	P
1	13		Y
0	14	CNTL ACCEL	

CAP/51-G/O/BAS

CAP/51-G/O/BAS

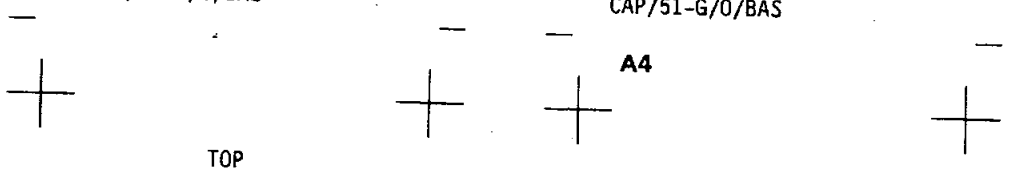


PURPOSE:
RCS HOT FIRE

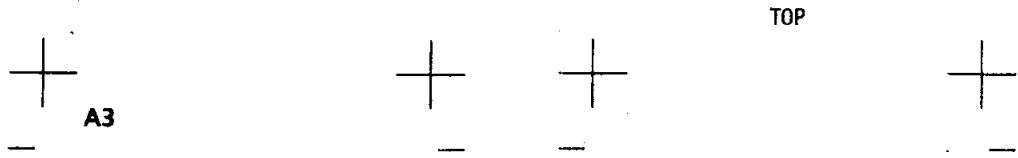
0.1 0	1	TRANSLATION	
		PULSE	
ROTATION			
0.2 0 0	2	DSC RT	NORM
0.2 0 0	3		VERN
0.3 0 0	4	PULSE	NORM
0.0 1 0	5		VERN
.0 0 0	6	COMP	NORM
.0 0 0	7		VERN
DEADBAND			
5.0 0	8	ATT	NORM
1.0 0 0	9		VERN
0.2 0	10	RATE	NORM
0.2 0	11		VERN
3	12	JET OPT	P
3	13		Y
0	14	CNTL ACCEL	

CAP/51-G/O/BAS

CAP/51-G/O/BAS

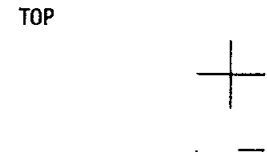


(reduced copy)



DAP A4

PURPOSE:
GG

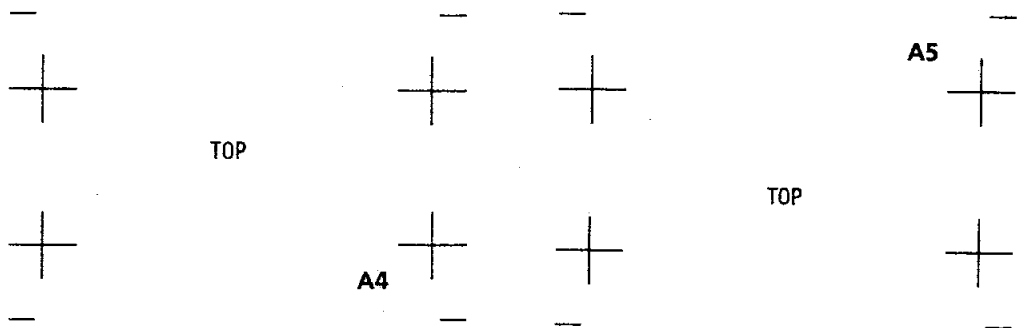


A4

- | | | | |
|---------|----|-------------|------|
| 0.1 0 | 1 | TRANSLATION | |
| | | PULSE | |
| | | ROTATION | |
| 0.2 0 0 | 2 | DSC RT | NORM |
| 0.0 0 8 | 3 | | VERN |
| 0.1 0 | 4 | PULSE | NORM |
| 0.0 1 0 | 5 | | VERN |
| .0 0 0 | 6 | COMP | NORM |
| .0 0 0 | 7 | | VERN |
| | | DEADBAND | |
| 1.0 0 | 8 | ATT | NORM |
| 0.0 7 0 | 9 | | VERN |
| 0.2 0 | 10 | RATE | NORM |
| .0 1 0 | 11 | | VERN |
| 1 | 12 | JET OPT | P |
| 3 | 13 | | Y |
| 0 | 14 | CNTL ACCEL | |

CAP/51-G/O/BAS

CAP/51-G/O/BAS



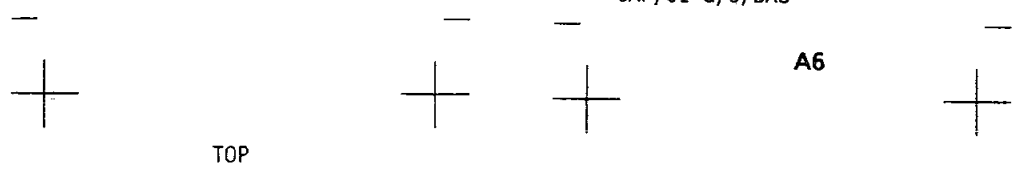
DAP A5

PURPOSE:
IMU ALIGN (ROTATING)

- | | | | |
|---------|----|-------------|------|
| 0.1 0 | 1 | TRANSLATION | |
| | | PULSE | |
| | | ROTATION | |
| 0.2 0 0 | 2 | DSC RT | NORM |
| 0.2 0 0 | 3 | | VERN |
| 0.1 0 | 4 | PULSE | NORM |
| 0.0 5 0 | 5 | | VERN |
| .0 0 0 | 6 | COMP | NORM |
| .0 0 0 | 7 | | VERN |
| | | DEADBAND | |
| 5.0 0 | 8 | ATT | NORM |
| 1.0 0 0 | 9 | | VERN |
| 0.2 0 | 10 | RATE | NORM |
| .0 2 0 | 11 | | VERN |
| 1 | 12 | JET OPT | P |
| 1 | 13 | | Y |
| 0 | 14 | CNTL ACCEL | |

CAP/51-G/O/BAS

CAP/51-G/O/BAS



DAP A6



A5

DAP A6

PURPOSE:
LOSS OF VERN
(TAIL ONLY)

TOP

A6

0.1 0	1	TRANSLATION PULSE
0.2 0 0	2	ROTATION DSC RT NORM
0.2 0 0	3	VERN
0.1 0	4	PULSE NORM
0.0 1 0	5	VERN
.0 0 0	6	COMP NORM
.0 0 0	7	VERN
5.0 0	8	DEADBAND ATT NORM
1.0 0 0	9	VERN
0.2 0	10	RATE NORM
.0 2 0	11	VERN
3	12	JET OPT P
3	13	Y
0	14	CNTL ACCEL

CAP/51-G/O/BAS

CAP/51-G/O/BAS



TOP

A7

TOP



A6

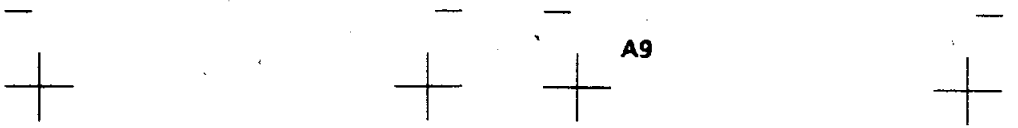
DAP A7

PURPOSE:
SPARTAN RELEASE

0.0 5	1	TRANSLATION PULSE
0.1 0 0	2	ROTATION DSC RT NORM
0.0 0 8	3	VERN
0.1 0	4	PULSE NORM
0.0 1 0	5	VERN
.0 0 0	6	COMP NORM
.0 0 0	7	VERN
1.0 0	8	DEADBAND ATT NORM
0.5 0 0	9	VERN
0.2 0	10	RATE NORM
.0 1 0	11	VERN
3	12	JET OPT P
3	13	Y
2	14	CNTL ACCEL

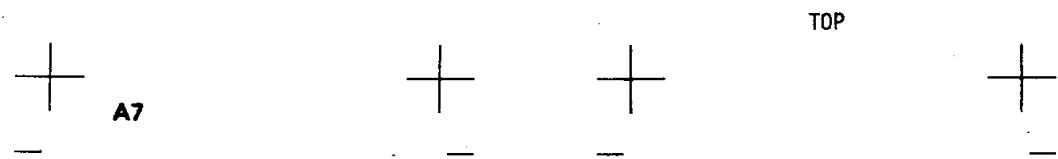
CAP/51-G/O/BAS

CAP/51-G/O/BAS



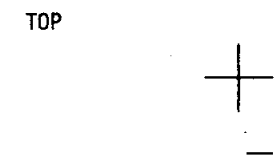
TOP

A9



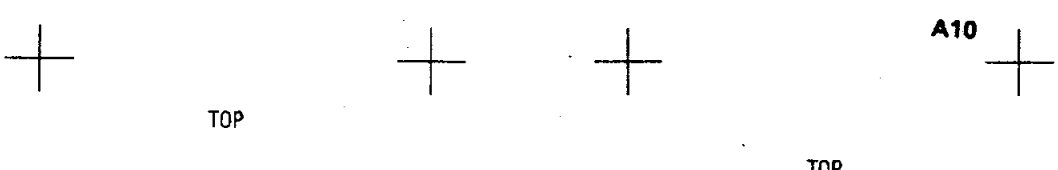
DAP A9

PURPOSE:
RENDEZVOUS



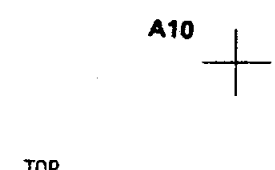
A9

- 0.1 0 1 TRANSLATION PULSE
- 0.2 0 0 2 ROTATION DSC RT NORM
- 0.2 0 0 3 VERN
- 0.1 0 4 PULSE NORM
- 0.0 1 0 5 VERN
- .0 0 0 6 COMP NORM
- .0 0 0 7 VERN
- 2.0 0 8 DEADBAND ATT NORM
- 1.0 0 0 9 VERN
- 0.2 0 10 RATE NORM
- .0 2 0 11 VERN
- 1 12 JET OPT P
- 1 13 Y
- 0 14 CNTL ACCEL



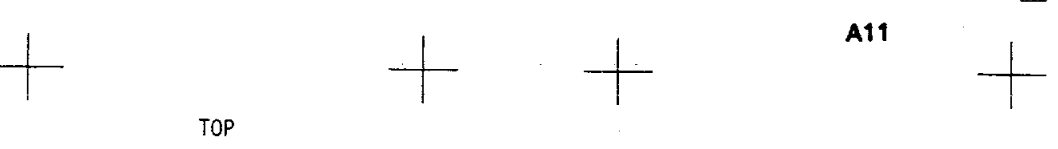
DAP A10

PURPOSE:
PROX OPS

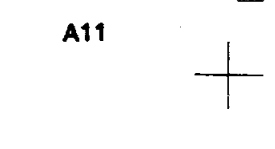


A10

- 0.0 5 1 TRANSLATION PULSE
- 0.2 0 0 2 ROTATION DSC RT NORM
- 0.2 0 0 3 VERN
- 0.1 0 4 PULSE NORM
- 0.0 1 0 5 VERN
- .0 0 0 6 COMP NORM
- .0 0 0 7 VERN
- 2.0 0 8 DEADBAND ATT NORM
- 1.0 0 0 9 VERN
- 0.2 0 10 RATE NORM
- .0 2 0 11 VERN
- 1 12 JET OPT P
- 1 13 Y
- 0 14 CNTL ACCEL



TOP



A11

TOP

A10

DAP A11

PURPOSE: (Blank)

A11

TRANSLATION
1 PULSE

2	DSC RT	NORM
3		VERN
4	PULSE	NORM
5		VERN
6	COMP	NORM
7		VERN

8	ATT	NORM
9		VERN

10	RATE	NORM
11		VERN

12	JET OPT	P
13		Y

14 CNTL ACCEL

CAP/51-G/O/BAS

CAP/51-G/O/BAS

TOP

TOP

A11

DAP

PURPOSE

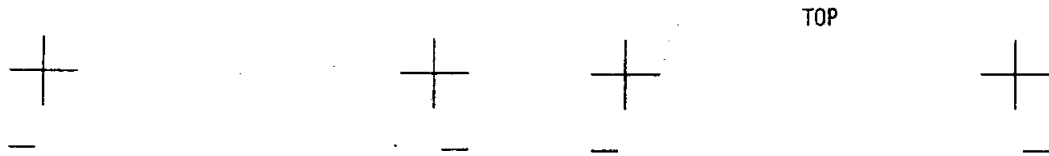
- B1 - NOMINAL
PRCS IMU ALIGN
OMS & RCS BURNS
- B2 - LOSS OF VERN
(TAIL ONLY)
- B3 - LOSS OF VERN;
GG MNVR
- B4 - PAM DEPLOY
FRISBEE DEPLOY
- B5 - COAS CAL
- B6 - RENDEZVOUS
- B7 - PROX OPS
- B8 - (Blank)

CAP/51-G/O/BAS

CAP/51-G/O/BAS

B1

TOP



DAP B1

PURPOSE:
 NOMINAL
 PRCS IMU ALIGN
 OMS & RCS BURNS

CAP/51-G/O/BAS



TOP



B1

DAP B2

PURPOSE:
 LOSS OF VERN
 (TAIL ONLY)

CAP/51-G/O/BAS



TOP

TOP

B1

TRANSLATION				
PULSE		15	0.0	2
ROTATION				
DSC RT	NORM	16	0.5	0 0
	VERN	17	0.2	0 0
PULSE	NORM	18	0.0	4
	VERN	19	0.0	2
COMP	NORM	20	.0	0
	VERN	21	.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

CAP/51-G/O/BAS

B2

TOP

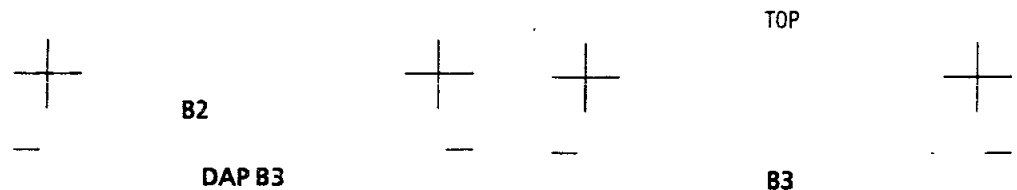
B2

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
	VERN	21	.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

CAP/51-G/O/BAS

B3





PURPOSE:
LOSS OF VERN
(NOSE & TAIL)
GG MNVR

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 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

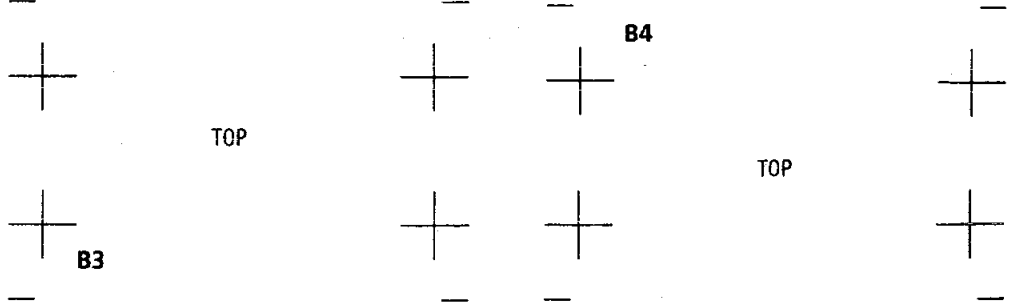
RATE NORM 24 0.2 0
VERN 25 .0 2 0

JET OPT P 26 1
Y 27 1

CNTL ACCEL 28 0

CAP/51-G/O/BAS

CAP/51-G/O/BAS



PURPOSE:
PAM DEPLOY
FRISBEE DEPLOY

TRANSLATION
PULSE 15 0.0 2

ROTATION
DSC RT NORM 16 0.2 0 0
VERN 17 0.0 0 8
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 0.3 0
VERN 23 0.1 0 0

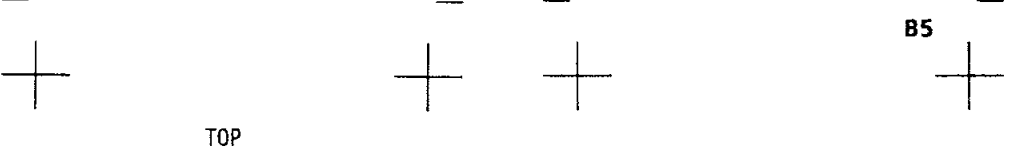
RATE NORM 24 0.2 0
VERN 25 .0 1 0

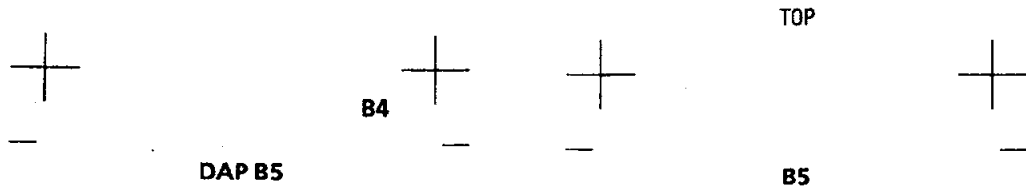
JET OPT P 26 1
Y 27 3

CNTL ACCEL 28 0

CAP/51-G/O/BAS

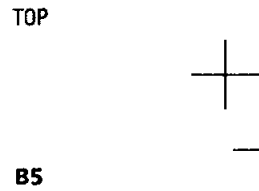
CAP/51-G/O/BAS





DAP B5

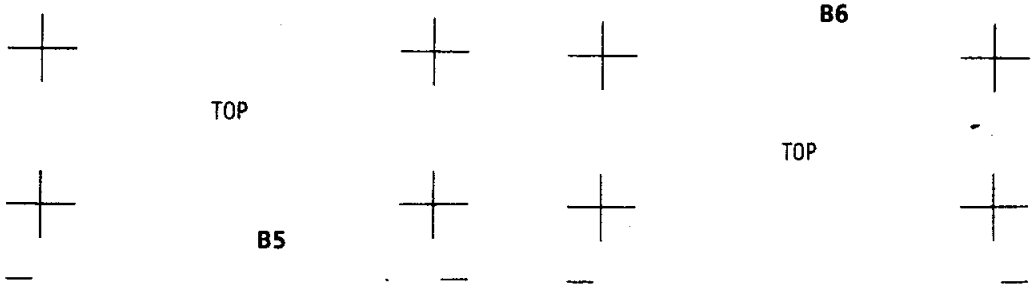
PURPOSE:
COAS CAL



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	3.0	0
	VERN 23	0.0	3 3
RATE			
	NORM 24	0.2	0
	VERN 25	.0	2 0
JET OPT			
	P 26		3
	Y 27		3
CNTL ACCEL 28			
			0

CAP/51-G/O/BAS

CAP/51-G/O/BAS



TOP

TOP

PURPOSE:
RENDEZVOUS

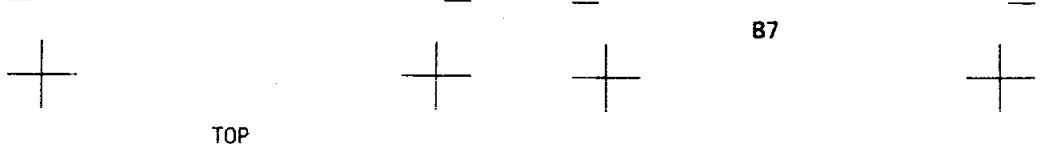
DAP B6

B6

TRANSLATION			
PULSE	15	0.0	5
ROTATION			
DSC RT	NORM 16	0.5	0 0
	VERN 17	0.2	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	2.0	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

CAP/51-G/O/BAS

CAP/51-G/O/BAS



TOP

TOP

B6

DAP B7

PURPOSE:
PROX OPS

CAP/51-G/O/BAS

B7

TRANSLATION				
PULSE	15		0.0	1
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	0 2
COMP	NORM	20	.0	0
	VERN	21	.0	0 0
DEADBAND				
ATT	NORM	22	2.0	0
	VERN	23	1.0	0 0
RATE				
	NORM	24	0.2	0
	VERN	25	0.0	2 0
JET OPT				
	P	26		1
	Y	27		1
CNTL ACCEL				
		28		0

CAP/51-G/O/BAS

B8

TOP

TOP

B7

DAP B8

PURPOSE: (Blank)

CAP/51-G/O/BAS

B8

TRANSLATION				
PULSE	15		---	---
ROTATION				
DSC RT	NORM	16	---	---
	VERN	17	---	---
PULSE	NORM	18	---	---
	VERN	19	---	---
COMP	NORM	20	---	---
	VERN	21	---	---
DEADBAND				
ATT	NORM	22	---	---
	VERN	23	---	---
RATE				
	NORM	24	---	---
	VERN	25	---	---
JET OPT				
	P	26		---
	Y	27		---
CNTL ACCEL				
		28		---

CAP/51-G/O/BAS

TOP



B8



CAP/51-G/O/BAS



TOP

TOP
BACK COVER 'DAP BOOK'



HOOK
VELCRO

CAP/51-G/O/BAS



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