

Shuttle

Flight Data File Crew Activity Plan STS-6

Cycle 3 Trajectory Updated

Flight Operations Directorate
Operations Division

Final, Revision A
March 25, 1983

NOTE
THIS CAP IS FOR A MARCH 30 LAUNCH. A
PCN WILL BE PUBLISHED FOR APRIL 4
LAUNCH TO UPDATE ATTITUDE TIMELINE DATA



National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas

FLIGHT DATA FILE

CONTROL

Ascent Checklist
Post Insertion Book
Crew Activity Plan
Deorbit Preparation Book
Entry Checklist

SUPPORT

Cue Cards
EVA Checklist
Flight Maps and Charts
Orbit Operations Checklist
Payload Deploy Checklist*
Payload Operations Checklist*
PDRS Operations Checklist*
Photo/TV Checklist
Proximity Operations Book*

OFF-NOMINAL

Ascent Pocket Checklist
Orbit Pocket Checklist
Entry Pocket Checklist
Ascent/Entry Pocket Checklist MS Supplement
Contingency Deorbit Preparation Book
Contingency EVA Operations Book
In-Flight Maintenance Checklist
Medical Checklist
Payload Systems Data and Malfunction Procedures*
Systems Malfunction Procedures

REFERENCE

Data Processing System Dictionary
Reference Data
Systems Data Book

*If required

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FLIGHT OPERATIONS DIRECTORATE

STS-6 CREW ACTIVITY PLAN

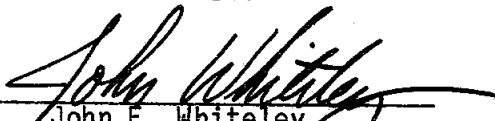

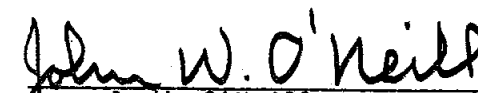
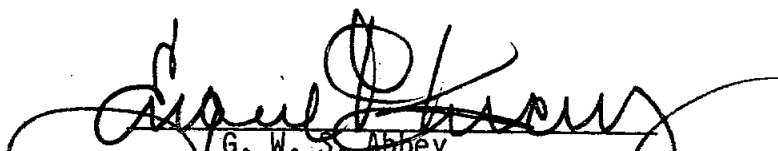
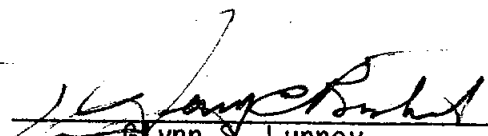
FINAL, REVISION A
March 25, 1983

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CHANGE CONTROL RECORD

STS-6 Crew Activity Plan

CONTROL NO.	FDF EDITION INCORPORATED		DISAPPROVED OR OTHER DISPOSITION
	TITLE	DATE	
	BASIC	09/30/82	
CAP(6)-1A	FINAL	01/03/83	
CAP(6)-2A	FINAL	01/03/83	
CAP(6)-3	FINAL	01/03/83	
CAP(6)-4	FINAL	01/03/83	
CAP(6)-5	FINAL	01/03/83	
CAP(6)-6	FINAL	01/03/83	
CAP(6)-7			WITHDRAWN
CAP(6)-8	FINAL	01/03/83	
CAP(6)-9A	FINAL	01/03/83	
CAP(6)-10	FINAL	01/03/83	
CAP(6)-11	FINAL	01/03/83	
CAP(6)-12A	FINAL	01/03/83	
CAP(6)-13B	FINAL	01/03/83	
CAP(6)-14A	FINAL	01/03/83	
CAP(6)-15A	FINAL	01/03/83	
CAP(6)-16	FINAL	01/03/83	
CAP(6)-17			DISAPPROVED
CAP(6)-18	FINAL	01/03/83	
CAP(6)-19A	FINAL	01/03/83	
CAP(6)-20A	FINAL	01/03/83	
CAP(6)-21A	FINAL	01/03/83	
CAP(6)-22A	FINAL	01/03/83	
CAP(6)-23A	FINAL	01/03/83	
CAP(6)-24	FINAL	01/03/83	
CAP(6)-25			DISAPPROVED
CAP(6)-26A	FINAL	01/03/83	
CAP(6)-27	FINAL	01/03/83	
CAP(6)-28A	FINAL	01/03/83	
FDF(ALL)-94	FINAL	01/03/83	
FDF(ALL)-95			DISAPPROVED
FDF(6)-109	FINAL	01/03/83	
CAP(6)-30	FINAL REV A	03/25/83	
CAP(ALL)-31	FINAL REV A	03/25/83	
CAP(6)-32A	FINAL REV A	03/25/83	
CAP(6)-33			DISAPPROVED
CAP(ALL)-36	FINAL REV A	03/25/83	
CAP(6)-37	FINAL REV A	03/25/83	
CAP(ALL)-38	FINAL REV A	03/25/83	
CAP(6)-39	FINAL REV A	03/25/83	
CAP(6)-41A	FINAL REV A	03/25/83	
CAP(ALL)-45B	FINAL REV A	03/25/83	
FDF(ALL)-124A	FINAL REV A	03/25/83	
CAP(6)-46B	FINAL REV A	03/25/83	
CAP(6)-51	FINAL REV A	03/25/83	

CHANGE CONTROL RECORD

STS-6 Crew Activity Plan

CONTROL NO.	FDF EDITION INCORPORATED		DISAPPROVED OR OTHER DISPOSITION
	TITLE	DATE	
CAP(6)-52	FINAL REV A	03/25/83	
CAP(6)-53	FINAL REV A	03/25/83	
CAP(6)-58	FINAL REV A	03/25/83	

STS-6 CREW ACTIVITY PLAN

LIST OF EFFECTIVE PAGES

FINAL 01/03/83
 REV A 03/25/83
 PCN-1 03/28/83

i.....	*STS-6/FIN A,1	4-14.....	STS-6/FIN A
ii.....	*STS-6/FIN A,1	4-15.....	STS-6/FIN A
iii.....	*STS-6/FIN A,1	4-16.....	STS-6/FIN A
iv.....	*STS-6/FIN A,1	4-17.....	STS-6/FIN A
v.....	STS-6/FIN A	4-18.....	STS-6/FIN A
vi.....	STS-6/FIN A	4-19.....	STS-6/FIN A
vii.....	*STS-6/FIN A,1	4-20.....	STS-6/FIN A
viii.....	STS-6/FIN A	4-20A.....	STS-6/FIN A
1-1.....	STS-6/FIN A	4-20B.....	STS-6/FIN A
1-2.....	STS-6/FIN A	4-21.....	*STS-6/FIN A,1
1-3.....	STS-6/FIN A	4-22.....	STS-6/FIN A
1-4.....	STS-6/FIN A	4-23.....	STS-6/FIN A
1-5.....	STS-6/FIN A	4-24.....	STS-6/FIN A
1-6.....	STS-6/FIN A	4-25.....	STS-6/FIN A
1-7.....	STS-6/FIN A	4-26.....	STS-6/FIN A
1-8.....	STS-6/FIN A	4-27.....	STS-6/FIN A
1-9.....	STS-6/FIN A	4-28.....	STS-6/FIN A
1-10.....	STS-6/FIN A	4-29.....	*STS-6/FIN A,1
2-1.....	STS-6/FIN A	4-30.....	STS-6/FIN A
2-2.....	STS-6/FIN A	4-30A.....	STS-6/FIN A
3-1.....	STS-6/FIN A	4-30B.....	STS-6/FIN A
3-2.....	STS-6/FIN A	4-31.....	*STS-6/FIN A,1
3-3.....	STS-6/FIN A	4-32.....	STS-6/FIN A
3-4.....	STS-6/FIN A	4-33.....	STS-6/FIN A
3-5.....	STS-6/FIN A	4-34.....	STS-6/FIN A
3-6.....	STS-6/FIN A	4-35.....	STS-6/FIN A
3-7.....	STS-6/FIN A	4-36.....	STS-6/FIN A
3-8.....	STS-6/FIN A	4-37.....	STS-6/FIN A
3-9.....	STS-6/FIN A	4-38.....	STS-6/FIN A
3-10.....	STS-6/FIN A	4-39.....	STS-6/FIN A
3-11.....	STS-6/FIN A	4-39A.....	STS-6/FIN A
3-12.....	STS-6/FIN A	4-40.....	*STS-6/FIN A,1
4-1.....	STS-6/FIN A	4-41.....	STS-6/FIN A
4-2.....	STS-6/FIN A	4-42.....	STS-6/FIN A
4-3.....	STS-6/FIN A	4-43.....	STS-6/FIN A
4-3A.....	STS-6/FIN A	4-44.....	STS-6/FIN A
4-4.....	*STS-6/FIN A,1	4-45.....	STS-6/FIN A
4-5.....	STS-6/FIN A	4-46.....	STS-6/FIN A
4-6.....	STS-6/FIN A	4-47.....	STS-6/FIN A
4-7.....	STS-6/FIN A	4-48.....	STS-6/FIN A
4-8.....	STS-6/FIN A	4-49.....	STS-6/FIN A
4-9.....	STS-6/FIN A	4-49A.....	STS-6/FIN A
4-10.....	*STS-6/FIN A,1	4-49B.....	STS-6/FIN A
4-11.....	STS-6/FIN A	4-50.....	*STS-6/FIN A,1
4-12.....	STS-6/FIN A	4-51.....	STS-6/FIN A
4-12A.....	STS-6/FIN A	4-52.....	STS-6/FIN A
4-13.....	*STS-6/FIN A,1	4-53.....	STS-6/FIN A

LIST OF EFFECTIVE PAGES (CONT)

4-54.....	STS-6/FIN A	5A-5.....	STS-6/FIN A
4-55.....	STS-6/FIN A	5A-6.....	STS-6/FIN A
4-56.....	STS-6/FIN A	5A-7.....	STS-6/FIN A
4-57.....	STS-6/FIN A	5A-8.....	STS-6/FIN A
4-57A.....	STS-6/FIN A	5A-9.....	STS-6/FIN A
4-57B.....	STS-6/FIN A	5A-10.....	*STS-6/FIN A,1
4-58.....	*STS-6/FIN A,1	5A-11.....	STS-6/FIN A
4-59.....	STS-6/FIN A	5A-12.....	STS-6/FIN A
4-60.....	STS-6/FIN A	5A-12A.....	STS-6/FIN A
4-61.....	STS-6/FIN A	5A-12B.....	STS-6/FIN A
4-62.....	STS-6/FIN A	5A-13.....	*STS-6/FIN A,1
4-63.....	STS-6/FIN A	5A-14.....	STS-6/FIN A
4-64.....	STS-6/FIN A	5A-15.....	STS-6/FIN A
4-65.....	STS-6/FIN A	5A-16.....	STS-6/FIN A
4-66.....	STS-6/FIN A	5A-17.....	STS-6/FIN A
4-67.....	STS-6/FIN A	5A-18.....	STS-6/FIN A
4-68.....	STS-6/FIN A	5A-19.....	STS-6/FIN A
4-68A.....	STS-6/FIN A	5A-20.....	STS-6/FIN A
4-69.....	*STS-6/FIN A,1	5A-20A.....	STS-6/FIN A
4-70.....	STS-6/FIN A	5A-20B.....	STS-6/FIN A
4-71.....	STS-6/FIN A	5A-21.....	*STS-6/FIN A,1
4-72.....	STS-6/FIN A	5A-22.....	STS-6/FIN A
4-73.....	STS-6/FIN A	5B-1.....	STS-6/FIN A
4-74.....	STS-6/FIN A	5B-2.....	STS-6/FIN A
4-75.....	STS-6/FIN A	5B-3.....	STS-6/FIN A
4-76.....	STS-6/FIN A	5B-4.....	STS-6/FIN A
4-76A.....	STS-6/FIN A	5B-5.....	STS-6/FIN A
4-76B.....	STS-6/FIN A	5B-6.....	STS-6/FIN A
4-77.....	*STS-6/FIN A,1	5B-7.....	STS-6/FIN A
4-78.....	STS-6/FIN A	5B-8.....	STS-6/FIN A
4-79.....	STS-6/FIN A	5B-9.....	STS-6/FIN A
4-80.....	STS-6/FIN A	5B-10.....	*STS-6/FIN A,1
4-81.....	STS-6/FIN A	5B-11.....	STS-6/FIN A
4-82.....	STS-6/FIN A	5B-12.....	*STS-6/FIN A,1
4-83.....	STS-6/FIN A	5B-13.....	STS-6/FIN A
4-84.....	STS-6/FIN A	5B-14.....	STS-6/FIN A
4-85.....	STS-6/FIN A	5B-14A.....	STS-6/FIN A
4-86.....	STS-6/FIN A	5B-14B.....	STS-6/FIN A
4-87.....	STS-6/FIN A	5B-15.....	*STS-6/FIN A,1
4-87A.....	STS-6/FIN A	5B-16.....	STS-6/FIN A
4-88.....	*STS-6/FIN A,1	5B-17.....	STS-6/FIN A
4-89.....	STS-6/FIN A	5B-18.....	STS-6/FIN A
4-90.....	STS-6/FIN A	5B-19.....	STS-6/FIN A
4-91.....	STS-6/FIN A	5B-20.....	STS-6/FIN A
4-92.....	STS-6/FIN A	5B-21.....	STS-6/FIN A
4-93.....	STS-6/FIN A	5B-22.....	*STS-6/FIN A,1
4-94.....	STS-6/FIN A	5C-1.....	STS-6/FIN A
4-94A.....	STS-6/FIN A	5C-2.....	STS-6/FIN A
4-95.....	*STS-6/FIN A,1	5C-3.....	STS-6/FIN A
4-96.....	STS-6/FIN A	5C-4.....	STS-6/FIN A
5-1.....	STS-6/FIN A	5C-5.....	STS-6/FIN A
5-2.....	STS-6/FIN A	5C-6.....	STS-6/FIN A
5A-1.....	STS-6/FIN A	5C-6A.....	STS-6/FIN A
5A-2.....	STS-6/FIN A	5C-6B.....	STS-6/FIN A
5A-3.....	STS-6/FIN A	5C-7.....	*STS-6/FIN A,1
5A-4.....	STS-6/FIN A	5C-8.....	STS-6/FIN A

*CURRENT CHANGE

LIST OF EFFECTIVE PAGES (CONT)

5C-9.....	STS-6/FIN A	9-5.....	STS-6/FIN A
5C-10.....	STS-6/FIN A	9-6.....	STS-6/FIN A
5C-11.....	STS-6/FIN A	9-7.....	STS-6/FIN A
5C-12.....	STS-6/FIN A	9-8.....	STS-6/FIN A
5C-13.....	STS-6/FIN A	9-9.....	*STS-6/FIN A,1
5C-14.....	STS-6/FIN A	9-10.....	*STS-6/FIN A,1
5C-15.....	STS-6/FIN A	9-11.....	*STS-6/FIN A,1
5C-16.....	STS-6/FIN A	9-12.....	*STS-6/FIN A,1
5C-17.....	STS-6/FIN A	9-13.....	*STS-6/FIN A,1
5C-17A.....	STS-6/FIN A	9-14.....	*STS-6/FIN A,1
5C-18.....	*STS-6/FIN A,1	9-15.....	*STS-6/FIN A,1
5C-19.....	STS-6/FIN A	9-16.....	*STS-6/FIN A,1
5D-1.....	STS-6/FIN A	9-17.....	*STS-6/FIN A,1
5D-2.....	STS-6/FIN A	9-18.....	*STS-6/FIN A,1
5D-3.....	STS-6/FIN A	10-1.....	STS-6/FIN A
5D-4.....	STS-6/FIN A	10-2.....	STS-6/FIN A
5E-1.....	STS-6/FIN A	10-3.....	STS-6/FIN A
5E-2.....	STS-6/FIN A	10-4.....	STS-6/FIN A
5E-3.....	STS-6/FIN A	10-5.....	STS-6/FIN A
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5E-7.....	STS-6/FIN A	11-1.....	STS-6/FIN A
5E-8.....	STS-6/FIN A	11-2.....	STS-6/FIN A
5E-9.....	STS-6/FIN A		
5E-10.....	*STS-6/FIN A,1		
5E-11.....	STS-6/FIN A		
5E-12.....	STS-6/FIN A		
6-1.....	STS-6/FIN A		
6-2.....	STS-6/FIN A		
6-3.....	STS-6/FIN A		
6-4.....	STS-6/FIN A		
6-5.....	STS-6/FIN A		
6-6.....	STS-6/FIN A		
6-7.....	STS-6/FIN A		
6-8.....	STS-6/FIN A		
7-1.....	STS-6/FIN A		
7-2.....	STS-6/FIN A		
7-3.....	STS-6/FIN A		
7-4.....	STS-6/FIN A		
7-5.....	STS-6/FIN A		
7-6.....	STS-6/FIN A		
8-1.....	STS-6/FIN A		
8-2.....	STS-6/FIN A		
8-3.....	STS-6/FIN A		
8-4.....	STS-6/FIN A		
8-5.....	STS-6/FIN A		
8-6.....	STS-6/FIN A		
8-7.....	STS-6/FIN A		
8-8.....	STS-6/FIN A		
8-9.....	STS-6/FIN A		
8-10.....	STS-6/FIN A		
9-1.....	STS-6/FIN A		
9-2.....	STS-6/FIN A		
9-3.....	STS-6/FIN A		
9-4.....	STS-6/FIN A		

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CONTENTS

PAGE

INTRODUCTION..... vif

TIMELINE FORMAT SYMBOL NOMENCLATURE..... 1-1

STS-6 OVERVIEW..... 2-1

SUMMARY TIMELINE..... 3-1

DETAILED TIMELINE..... 4-1

 FLT DAY 1..... 4-3

 FLT DAY 2..... 4-18

 FLT DAY 3..... 4-37

 FLT DAY 4..... 4-55

 FLT DAY 5..... 4-75

 FLT DAY 6..... 4-93

CONTINGENCY TIMELINES..... 5-1

 9D DEPLOYMENT..... 5A-1

 10D DEPLOYMENT..... 5B-1

 18A DEPLOYMENT..... 5C-1

 WAVE OFF (1 DAY LATE ENTRY)..... 5D-1

 CIU FAILURE..... 5E-1

CONSUMABLES CURVES 6-1

CREW ACTIVITY PLAN NOTES (CONSTRAINTS AND GUIDELINES)..... 7-1

DETAILED TEST OBJECTIVES (DTOs),
DETAILED SUPPLEMENTARY OBJECTIVES (DSOs)..... 8-1

TABLES..... 9-1

ABBREVIATIONS/ACRONYMS..... 10-1

REFERENCES..... 11-1

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INTRODUCTION

The STS-6 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 requirements of the STS-6 Flight Requirements Document (Basic, Rev C, Change 1, January 21, 1983, Ref. 1) with exceptions as noted in Table 8-1.

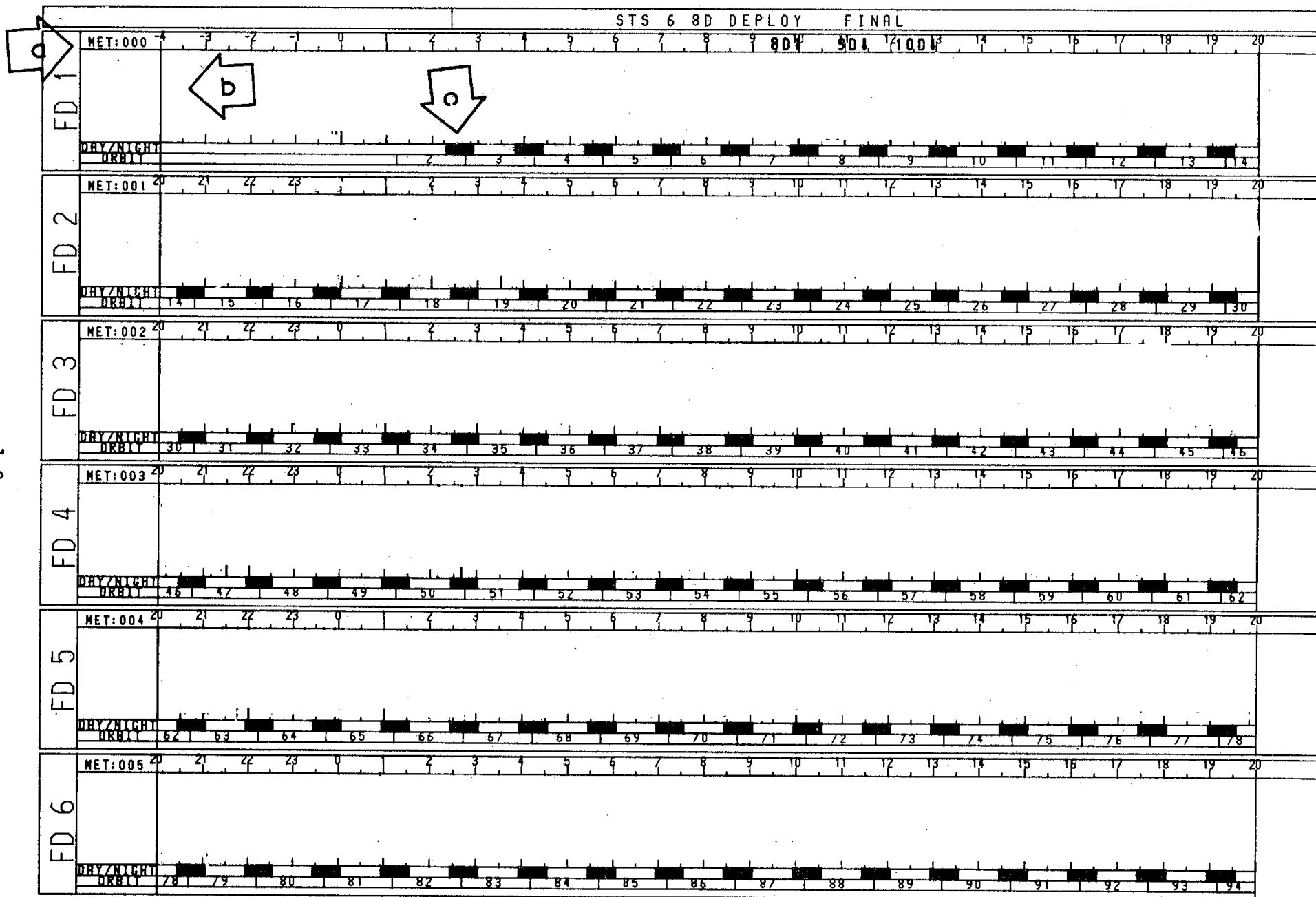
The flight profile (Cycle 3 (updated) trajectory data, Ref. 2) used for this Crew Activity Plan is for a launch date of March 30, 1983.

Attitude and star data are centered around an April 4, 1983, launch date. |

AOS/LOS times shown for the TDRS and IUS omni antennas are approximate times and include rounding of data to the nearest minute.

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TIMELINE FORMAT SYMBOL NOMENCLATURE



1-2

Figure 1-1

A. FORMAT SYMBOL NOMENCLATURE

1. Overview Timeline

The following letters (a-c) refer to those highlighted in Figure 1-1.

- a. **TIMESCALE** - The time reference used on this format is cumulative Mission Elapsed Time (MET) expressed in days and hours. MET is referenced to liftoff, which occurs at 0/00:00:00 (days, hours, minutes, seconds).
- b. **ACTIVITY COLUMN** - This column presents an overview of activities scheduled during the flight. For clarity of presentation, only major activities are presented, and activity durations are sometimes lengthened. Abbreviated activity titles can be found in the Abbreviations/Acronyms section of this CAP.
- c. **ORBIT and DAY/NIGHT**
 - 1) **Orbit** - Indicates which orbit the spacecraft is in by numerical sequence. The beginning of an orbit occurs when the Orbiter crosses the Earth's equator going from the southern to the northern hemisphere (ascending node). The succession of orbits is numbered in this column starting with Orbit 1 for launch.
 - 2) **Day/Night** - The orbital day/night intervals are delineated with black bars indicating when the Orbiter is in darkness.

2. Summary Level Timeline (12-Hr Timespan)

The following letters (a-k) refer to those highlighted in Figure 1-2.

- a. **TIMESCALES** - Three time references are presented in this section of the summary timeline format. The time references used are Time of Ignition minus (TIG), Greenwich Mean Time (GMT), and Mission Elapsed Time (MET). MET is referenced to liftoff, beginning at 0/00:00:00 (days, hours, minutes, seconds). TIG is referenced to the deorbit ignition time and counts down to 0/00:00:00 at ignition on the CRT timer. TIG is only used on the deorbit preparations on entry day.
- b. **CREWMAN (CDR, PLT, MS1, MS2)** - This is the crewman column of the format, where titles of scheduled activities are shown for the commander (CDR), pilot (PLT), and each mission specialist (MS1 & MS2) at the appropriate times in the flight.

GMT (D·H·M)	MET (D·H·M)	CST (D·H·M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
024·14·00 / 025·02·00	004·00·00 / 004·12·00	024·08·00 / 024·20·00	05 / 024	CHT -20.1	○	> April 3, 1983	STS 6	FINAL, REV A	03/25/83
GMT ·024 14	15	16	17	18	19	20	21	22	23
FD ·05					FD·08				04·0250
MET ·004									10 8 D 19 DEPLOY
									12
GDR									
PLT									
MS1									
MS2									
DAY/NIGHT	[Day/Night Cycle Diagram]								
ORBIT	65	66	67	68	69	70	71	72	
STDX	-YAR	-BDA	-GDS	-BOT	-GWH	-AGG	-AGG	-GWH	-AGG
COVERAGE	-GWH	-ACN	-MLX	-MLX	-HAW	-ACN	-ACN	-GWH	-AGG
	-GDX	-BOT	-YAR	-MLX	-GWH	-HAW	-AGG	-ACN	-GWH
	-GDS	-GWH	-HAW	-BOT	-GWH	-AGG	-ACN	-GWH	-AGG
	-MLX	-HAW	-GDX	-GWH	-HAW	-AGG	-ACN	-GWH	-AGG
	-MLX	-HAW	-GDX	-GWH	-HAW	-AGG	-ACN	-GWH	-AGG
SOLE	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS
COVERAGE	-HTS	-HTS	-HTS	-HTS	-HTS	-HTS	-HTS	-HTS	-HTS
	-VTS	-VTS	-VTS	-VTS	-VTS	-VTS	-VTS	-VTS	-VTS
TV									
DEORB KSC	1 00·09								
EDW	00·01	1 01·36							
ATTITUDE									
MNRS									
EXPT									
TLM									
NOTES:									



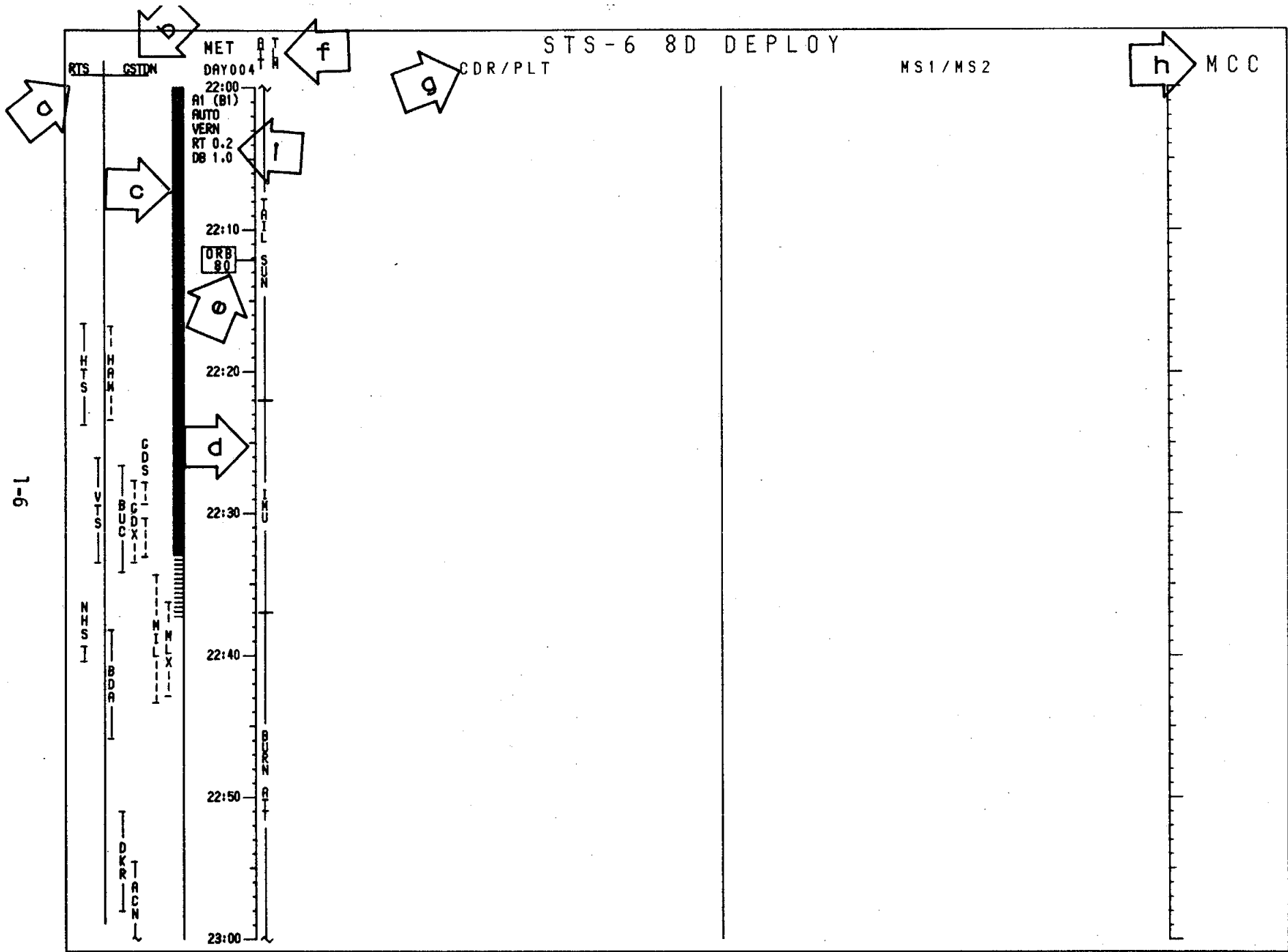
1-4

STS-6/FIN A

Figure 1-2

03/25/83

- c. DAY/NIGHT and ORBIT
- 1) Day/Night - The orbital day/night intervals are delineated with black bars indicating when the Orbiter is in darkness.
 - 2) Orbit - Indicates which orbit the spacecraft is in by numerical sequence. The beginning of an orbit occurs when the Orbiter crosses the Earth's equator going from the southern to the northern hemisphere (ascending node). The succession of orbits is numbered in this column starting with Orbit 1 for launch.
- d. GSTDN COVERAGE - The GSTDN communication coverage periods are identified in this area with a horizontal line indicating when communication is available; the GSTDN site is identified to the right of the line.
- e. SGLS COVERAGE - The SGLS communication coverage periods are identified in this area with a horizontal line indicating when communication is available; the RTS site is identified to the right of the line.
- f. TV/VTR - Identifies periods of CCTV downlink (indicated by a '|—|'). Real-time TV downlink periods are labeled 'TV', and VTR dumps to the ground are labeled 'VTR'.
- g. DEORBIT OPT - Times when deorbit opportunities exist for Edwards AFB (EDW) or Kennedy Space Center (KSC) are identified in this area.
- h. ATTITUDE - The attitude of the vehicle (-ZLV, IMU, etc.) is shown in this column.
- i. MANEUVERS - An upward-pointing arrow (↑) is placed at the time an attitude maneuver occurs.
- j. EXPT - Identifies payload operating periods for CFES, MLR, & GAS.
- k. TLM data rates (64 or 16 KBPS) for IUS are indicated in this area.



9-1

Figure 1-3

3. Detailed Level Timeline (1-Hr Timespan)

The following letters (a-i) refer to those highlighted in Figure 1-3.

- a. RTS COVERAGE - In this column the RTS sites and their acquisition periods are identified by a solid line. The sites are HTS, VTS, GTS, IOS, and NHS.
- b. GSTDN COVERAGE - In this column the GSTDN sites and their acquisition periods are identified. Each site acquisition period is annotated by a solid line, a dashed line, or a dotted line. The different annotations indicate the following:
 - ┌ A site that has S-Band, UHF voice and TV capabilities (GDS, HAW, MIL, MLX, GDX)
 - ┌ A site with S-Band and UHF voice capabilities (BDA, GWM, ACN, BUC, DKR, MAD, MAX, IOS) (Note: IOS is SGLS)
 - ⋮ A site with only S-Band (no UHF or TV) capabilities (AGO, ORR)
 - ┌ A site with only UHF (no S-band or TV) capabilities (BOT, YAR)
- c. DAY/NIGHT CYCLE - In this column a solid bar indicates the period when the Orbiter and Earth are in darkness. A slashed line indicates when the Orbiter is in daylight but the Earth beneath the Orbiter is still in darkness (terminator).
- d. MET TIMESCALE - This format is a 1-hour format with minute tick marks on the vertical timescale referenced to Mission Elapsed Time (MET) with liftoff occurring at 0/00:00:00.
- e. ORBIT - Indicates which orbit the spacecraft is in by numerical sequence. Orbit 1 begins at liftoff with subsequent orbits starting when the Earth's equator is crossed (ascending node).
- f. ATTITUDE and TLM (ATT/TLM) - Indicates Orbiter attitude and IUS TLM rates.
- g. CREWMAN COLUMNS - The activities for the CDR, PLT, MS1, and MS2 are scheduled in this area.
- h. MCC COLUMN - Any uplinks, commands, or updates required are scheduled at the appropriate time in this column. A vertical line is also used to indicate TV coverage.

- i. In the timescale a DAP A and DAP B CONFIG reference will be included. A number is associated with both DAPs A and B; each number indicates a particular DAP configuration for either DAP A or DAP B. The DAP reference without parentheses indicates the 'active' DAP for that time period on the page. Table 1-1 and 1-2 identify the various configurations for DAP A and DAP B that are used in the STS-6 timeline.

TABLE 1-1

DAP A CONFIGURATIONS

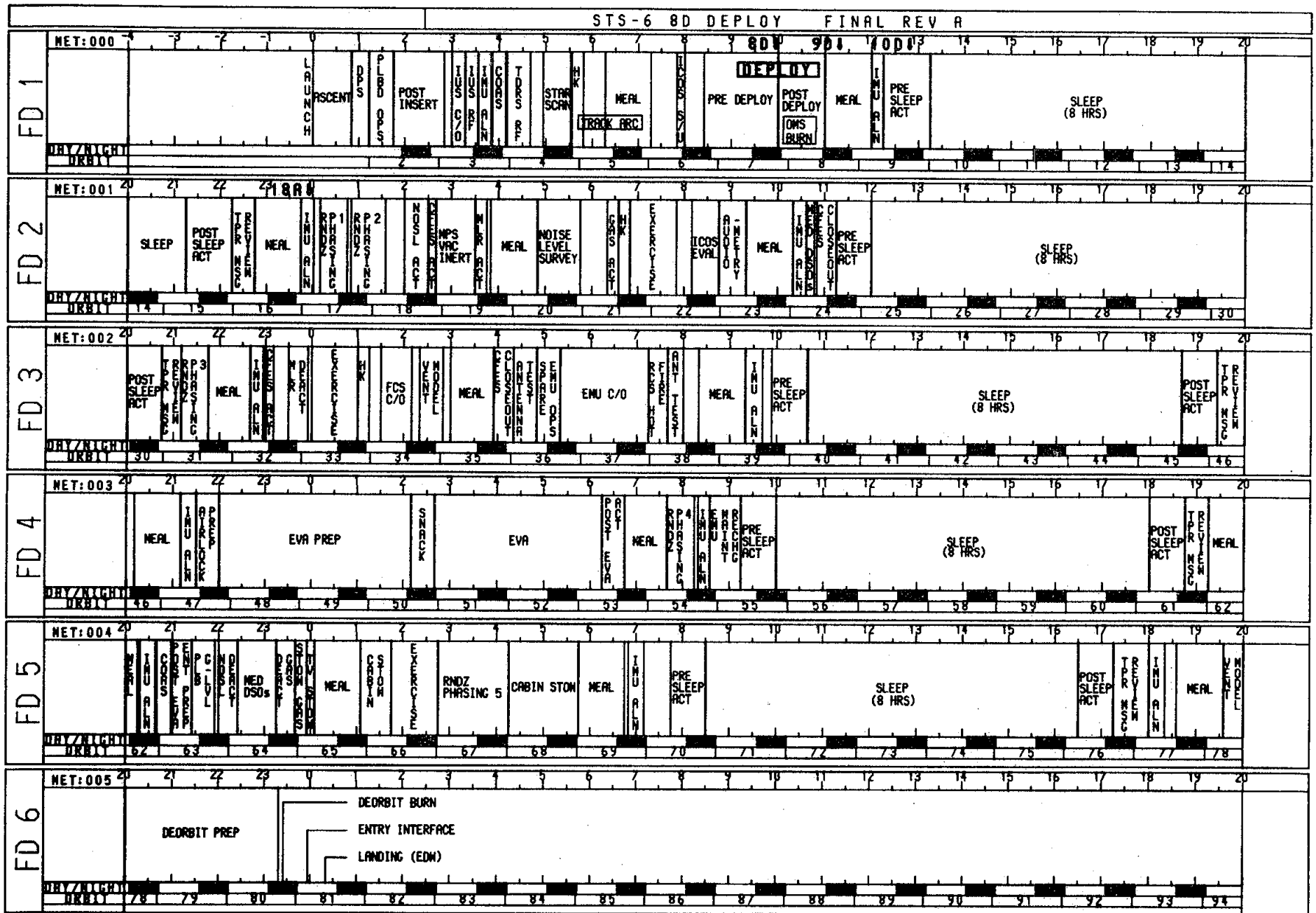
	A1	A2	A3	A4	A5	A6	A7	A8	A10
<u>TRANSLATION</u>									
PULSE ft/sec	0.1	0.1	0.1	0.1	0.1	0.1	0.25	0.25	0.1
<u>ROTATION</u>									
DSC RT NORM °/sec	0.2	0.4	0.2	0.2	0.2	0.2	0.8	0.2	2.0
VERN °/sec	0.2	0.4	0.2	0.2	0.2	0.2	0.25	0.2	0.2
PULSE NORM °/sec	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.05	0.1
VERN °/sec	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
COMP NORM °/sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VERN °/sec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<u>DEADBAND</u>									
ATT NORM°	5.0	1.0	5.0	1.0	5.0	5.0	0.2	1.0	5.0
VERN°	1.0	1.0	1.0	1.0	0.07	1.0	0.1	1.0	1.0
RATE NORM °/sec	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
VERN °/sec	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.02
<u>JET OPT</u>									
P	1	1	3	1	1	3	1	1	1
Y	1	1	3	3	1	3	1	1	1
<u>CNTL ACCEL</u>									
	0	0	0	0	0	0	0	0	0

TABLE 1-2

DAP B CONFIGURATIONS

	B1	B2	B3	B4	B5	B7
<u>TRANSLATION</u>						
PULSE ft/sec	0.02	0.02	0.02	0.02	0.02	0.02
<u>ROTATION</u>						
DSC RT						
NORM °/sec	0.5	0.2	0.5	0.2	0.2	0.05
VERN °/sec	0.2	0.2	0.2	0.008	0.2	0.016
PULSE						
NORM °/sec	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
COMP						
NORM °/sec	0.0	0.00	0.0	0.0	0.0	0.0
VERN °/sec	0.0	0.00	0.003	0.0	0.0	0.0
<u>DEADBAND</u>						
ATT						
NORM°	3.0	3.0	3.0	0.3	3.0	0.1
VERN°	1.0	1.0	1.0	0.1	1.0	0.01
RATE						
NORM °/sec	0.2	0.2	0.2	0.2	0.2	0.2
VERN °/sec	0.02	0.02	0.02	0.01	0.02	0.02
<u>JET OPT</u>						
P	1	3	1	1	1	1
Y	1	3	1	3	1	1
<u>CNTL ACCEL</u>						
	0	0	0	0	0	0

STS-6 OVERVIEW



SUMMARY TIMELINE

SUMMARY
TIMELINE

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
090:06:30 / 090:18:30		000:12:00 / 001:00:00		090:03:30 / 090:12:30		01 / 090 GMT	-23.3	☉	MARCH 31, 1983	STS 6	FINAL REV A	3/25/83
GMT : 090		MET : 000		CST : 090		FD : 01						
MET : 000		MET : 000		MET : 000		MET : 000		MET : 000		MET : 000		MET : 000
CDR	ZLV PRE SLEEP ACT											
PLT	PRE SLEEP ACT											
MS1	PRE SLEEP ACT											
MS2	PRE SLEEP ACT											
DAY/NIGHT	[Day/Night Cycle]											
ORBIT	9	10	11	12	13	14	15	16				
GSTDN COVERAGE	-GMM -AGO -RCN -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR	-GMM -AGO -DKR
SCLS COVERAGE	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS
TV												
DEORB EDW												
NOR												
ATTITUDE	-ZLV NOSE 1ST											
MNVS												
EXPT												
TLH												
NOTES:	● CHANGEOUT ● Y-POP (NOSE FWD)											

■ PHASING PAD - OMS

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
090:18:30 / 091:06:30	001:00:00 / 001:12:00	090:12:30 / 091:00:30	02/ 090 GHT	-23.7		MARCH 31, 1983	STS 6	FINAL REV A	3/25/83	
GMT :090 FD :02 MET :001	18A DPY	20 21 22 23	0 1 2 3 4 5 6 7 8 9 10 11 12	GMT:091						
CDR	RNDZ PHASING 1 RNDZ PHASING 2 ZLV MNVVR NOSL RCT NOSL HK MEAL NOISE LEVEL SURVEY NOSL EXERCISE NOSL HK ICOS MNVVR ICOS EVAL AUDIOMETRY MEAL IMU MNVVR ZLV MNVVR PRE SLEEP ACT	PLT	RNDZ PHASING 1 RNDZ PHASING 2 HK MEAL PREP MPS VACUUM INERT MEAL TV ACT EXERCISE MEAL PREP HK AUDIOMETRY MEAL PRE SLEEP ACT	MS1	EXERCISE CFES STRAT CK HK CFES FLOW MEAL CFES HK MEAL CFES PRE SLEEP ACT	MS2	HK MEAL ICOS EVAL HK EXERCISE MEAL PRE SLEEP ACT	DAY/NIGHT	ORBIT	17 18 19 20 21 22 23 24
GSTDN COVERAGE	BUC -RCN GDS -BOT WIL -YAR BDA -HAM DKR -RCN	MIL -BDA RCN -BOT HAM -YAR GMS -RCN	HAM -BUC GDS -RCN MIL -YAR GMS -RCN	BUC -BOT HAM -GMS GDS -RCN	HAM -GMS GDS -RCN	IOS -HAM GMS -RCN	IOS -HAM GMS -RCN	AGC -BOT IOS -GMS HAM -RCN	AGC -BOT IOS -GMS HAM -RCN	AGC -RCN
SCLS COVERAGE	VTS -NHS HTS	VTS -GTS HTS	VTS -GTS HTS	VTS -GTS HTS	VTS -GTS HTS	VTS -GTS HTS	VTS -GTS HTS	VTS -GTS HTS	VTS -GTS HTS	VTS -GTS HTS
TV DEORB EDW NOR	00:51 00:54	02:26 02:28	04:01							
ATTITUDE NNVR	IMU BURN 1 ATT BURN 2 ATT		ZLV NOSE 1ST				ICOS ATT	IMU	ZLV	
EXPT TLM		CFES	MCR/CFES			CFES/GMS/MCR		GMS/MCR		
NOTES:	<ul style="list-style-type: none"> ● CHANCEOUT ● DTD 602 CABIN ATMOSPHERE VERF ● Y-POP (NOSE FWD) ● CFES VOLT CK ● RCS REC RECONFIG ● CFES FLOW-NO VOLTAGE ● CFES-STABILIZE SAMPLE 1 FLOW ● DTD 604 NOISE LEVEL SURVEY ● CFES-INSTALL SAMPLE 2 ● CFES-STABILIZE SAMPLE 2 FLOW ● DTD 768 ICOS EVALUATION ● CFES-CONT STABILIZE SAMPLE 2 ● DSO 0408 NEAR VISION ACUITY ● DSO 0407 SETUP NET PHOTOS ● DSO 0408 NEAR VISION ACUITY ● DTD 768 ICOS EVALUATION ● CFES-INSTALL SAMPLE 3 ● CFES-STABILIZE SAMPLE 3 FLOW ● DSO 0408 NEAR VISION ACUITY ● DSO 0410 AUDIOMETRY ● CFES-CONT STABILIZE SAMPLE 3 ● DSO 0404 HEAD & EYE TRACKING ● CHANCEOUT ● Y-POP (NOSE FWD) ● MANUAL 									

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE									
091:06:30/ 091:18:30	001:12:00/ 002:00:00	091:00:30/ 091:12:30	02/ 091 GMT	-23.8		APRIL 1, 1983	STS 6	FINAL REV A	3/25/83									
GMT :091	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	0
FD :02																		
MET :001	12	13	14	15	16	17	18	19	20	21	22	23						
CDR					SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL							
PLT					SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL							
MS1					SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL							
MS2					SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL							
DAY/NIGHT																		
ORBIT	25	26	27	28	29	30	31	32										
CSTDN COVERAGE	-GMM	-AGD -ACK -DKR	-GMM	-MAX	-DKR -MAX	-ORR	-MIL -MLX -BDR	-IOS -YAR -ORR	-MIL -MLX -BDR	-IOS -YAR -ORR	-BUK -NIX -BDR	-DKR	-BOT -IOS -YAR					
SCLS COVERAGE	-GTS	-GTS		-DKR	-DKR			-IOS		-NHS	-IOS		-VTS -NHS					
TV DEORB EDM NDR																		
ATTITUDE																		
MNVRS																		
EXPT																		
TLN																		
NOTES:																		

- DTD 602 ORBIN ATMOSPHERE VERF
- CHANGEOUT
- Y-POP (NOSE FND)
- CFES VOLT CK
- CFES FLOW-NO VOLTAGE

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
092:06:30 / 092:18:30	002:12:00 / 003:00:00	092:00:30 / 092:12:30	04 / 092 GMT	-23.7		APRIL 2, 1983	STS 6	FINAL REV A	3/25/83	
GMT :092										
FD :03										
MET :002										
CDR		SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL	IMU MNVRS ZLV SGLS GSTDN SCLS TV ATTITUDE MNVRS EXPT TLM	HW EXERCISE T/VACT
PLT		SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL	EVA SUPPORT	
MS1		SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL	AIRLOCK PREP	EVA PREP START PRE BREATH
MS2		SLEEP				POST SLEEP ACT	TPR MSG REVIEW	MEAL	AIRLOCK PREP	EVA PREP BREATH
DAY/NIGHT										
ORBIT	41	42	43	44	45	46	47	48		
GSTDN COVERAGE	-GWH -ACD -ACN -DKR	-GWH	-DKR	-MAD -MAX -YAR	-IOS -YAR -ORR	-MAD -IOS -YAR -ORR	-DKR -IOS -YAR -ORR	-MIL -MLX -BDA -DKR -MAX	-MIL -MLX -BDA -DKR -MAX	-MIL -MLX -BDA -DKR -MAX
SCLS COVERAGE	-GTS	-GTS		-DKR	-DKR	-IOS	-IOS	-NHS -IOS	-HTS -VTS -NHS	-HTS -VTS -NHS
TV DEORB EDW NDR								↑ 21:43 ↑ 21:45	↑ 23:18 ↑ 23:20	
ATTITUDE				-ZLV NOSE 1ST				IMU		-ZLV NOSE 1ST
MNVRS										
EXPT										
TLM										
NOTES:										● Y-POP (NOSE FWD) ● CHANGEDOUT

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE				
092:18:30 / 093:06:30	003:00:00 / 003:12:00	092:12:30 / 093:00:30	04 / 092 GMT	-23.4		APRIL 2, 1983	STS 6	FINAL REV A	3/25/83				
GMT :092	19	20	21	22	23	0	1	2	3	4	5	6	
FD :04						GMT:093							
MET :003	0	1	2	3	4	5	6	7	8	9	10	11	12
CDR		SNACK		HK		MEAL PREP		MEAL	PHRASING 4	IMU MNVR	ZLV NOSE 1ST	PRE SLEEP ACT	SLEEP
PLT	EVA SUPPORT	SNACK				EVA SUPPORT		MEAL	PHRASING 4	IMU MNVR	ZLV NOSE 1ST	PRE SLEEP ACT	SLEEP
MS1	EVA PREP					EVA		POST EVA ACT	MEAL		EMU MAINT RECHG	PRE SLEEP ACT	SLEEP
MS2	EVA PREP					EVA		POST EVA ACT	MEAL		EMU MAINT RECHG	PRE SLEEP ACT	SLEEP
DAY/NIGHT													
ORBIT	49	50	51	52	53	54	55	56					
GSTDN COVERAGE	BUC - ACN CDS - BOT NLX - YAR NLX - GMM BDR - AKR	CDX - MIL NLX - BOT HAN - BUC CDS - BOT	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM	ACN - BOT GMM - HAM
SCLS COVERAGE	VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	GTS - HTS VTS	
TV			ITM	ITM	ITM								
DEORB EDN	1 00:53	1 02:28											
NOR	1 00:55	1 02:30											
ATTITUDE						ZLV NOSE 1ST						ZLV NOSE 1ST	
MNVR													
EXPT						CAS							
TLH													
NOTES:						▲ AIRLOCK EGRESS	▲ AIRLOCK INGRESS	● CHANGEDUT	● Y-POP (NOSE FWD)				
						● DTO 611 - EMU/EVA EVALUATION							

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE								
093:06:30 / 093:18:30	003:12:00 / 004:00:00	093:00:30 / 093:12:30	05 / 093 GMT	-22.9	☾	APRIL 3, 1983	STS 6	FINAL REV A	3/25/83								
GMT :093	8	9	10	11	12	13	14	15	16	17	18						
FD :04						FD :05											
MET :003	12	13	14	15	16	17	18	19	20	21	22	23	0				
CDR	SLEEP						POST SLEEP ACT	TPR MSG REVIEW	MEAL	IMU MNVRS	PLB G-LVL	ZLV MNVRS	NOSL DEACT	HK	DIRECT GAS	S-O M GAS	
PLT	SLEEP						POST SLEEP ACT	TPR MSG REVIEW	MEAL					HK	EXERCISE	HEAD & EYE TRACKING	
MS1	SLEEP						POST SLEEP ACT	TPR MSG REVIEW	MEAL		POST EVA ENT PREP		HA UDI METRY	MEAL PREP	HK	EXERCISE	
MS2	SLEEP						POST SLEEP ACT	TPR MSG REVIEW	MEAL		POST EVA ENT PREP		HA UDI METRY		HEAD & EYE TRACKING	TV STON HK	
DAY/NIGHT																	
ORBIT	57	58	59	60	61	62	63	64									
GSTDN COVERAGE	-CAN -AGO -DKR			-MAX -YAR -DRR	-MAD -MAX -IOS -YAR -ORR -MLX -MIL -BDA -DKR	-BDA -DKR -IOS -YAR -ORR -MLX	-MLX -BDA -DKR -IOS -YAR -ORR	-GDX -BDA -DKR -IOS -YAR -ORR -HAN -BDA -DKR -ACN	-BOT -YAR							HAM	
SGLS COVERAGE	-GTS				-IOS	-IOS	-IOS	-IOS									HTS
TV																	
DEORB EDW NOR										↑ 21:43	↑ 23:18						
ATTITUDE										↑ 20:11	↑ 21:46			↑ 23:21			
MNVRS																	
EXPT																	
TLM																	
NOTES:																	

- DTO 770 AFT STATION
- DSO 0409 MICROBIO SCREENING
- DTO 765 PLB G-LVL
- DSO 0404 HEAD & EYE TRACKING
- CHANGEOUT
- DSO 0407 SETUP MED PHOTOS
- Y-POP (NOSE FND)
- DSO 0410 AUDIOMETRY
- CAS 0405 DEACT
- DSO 0404 HEAD & EYE TRACKING
- DSO 0408 NEAR VISION ACUITY
- DSO 0408 NEAR VISION ACUITY

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE		
093:18:30 / 094:06:30	004:00:00 / 004:12:00	093:12:30 / 094:00:30	05/093	GMT -22.3		APRIL 3, 1983	STS 6	FINAL REV A	3/25/83		
GMT: 093	FD: 05	MET: 004	GMT: 094								
CDR	MEAL	CABIN STOM	CABIN STOM	RNDZ PHASING 5	ZLV MNV R	EXERCISE	HK	MEAL	IMU ZLV MNV R	PRE SLEEP ACT	SLEEP
PLT	MEAL	CABIN STOM	RNDZ PHASING 5	HK	MEAL PREP	CABIN STOM	MEAL	IMU ZLV MNV R	PRE SLEEP ACT	SLEEP	
MS1	MEAL	CABIN STOM				HK	CABIN STOM	MEAL	IMU ZLV MNV R	PRE SLEEP ACT	SLEEP
MS2	MEAL	CABIN STOM	HK	EXERCISE	CABIN STOM			MEAL	IMU ZLV MNV R	PRE SLEEP ACT	SLEEP
DAY/NIGHT	[Day/Night Cycle]										
ORBIT	65	66	67	68	69	70	71	72			
CSTDN COVERAGE	BUC - BOT - CDS	YAR - GWN - WLR	WLR - ACN - BOT	CDX - CDS - BQT	IOS - GWN - HAM	HAM - AGO - ACN	AGO - ACN - GWN	ACN - GWN - AGO	ACN - GWN - DMR		
SCLS COVERAGE	VTS	GTS - VTS	VTS - GTS	IOS - HTS - GTS	HTS - IOS - GTS	HTS - IOS - GTS	HTS - IOS - GTS	HTS - IOS - GTS	HTS - IOS - GTS		
TV DEORB EDN NOR	1 00:53	1 00:55	1 02:28								
ATTITUDE	-ZLV NOSE 1ST					IMU	-ZLV NOSE 1ST				
NNVRS											
EXPT											
TLH											
NOTES:	<ul style="list-style-type: none"> o PHASING PAD - RCS ● Y-POP (NOSE FWD) ● CHANGEOUT ● Y-POP (NOSE FWD) 										

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
094:06:30 / 094:18:30	004:12:00 / 005:00:00	094:00:30 / 094:12:30	06/ 094 GMT	-21.5		APRIL 4, 1983	STS 6	FINAL REV A	3/25/83
TIC									
FD :05									
MET :004 12 13 14 15 16 17 18 19 20 21 22 23 0									
CDR	SLEEP		POST SLEEP ACT	TPR MSG REVIEW	I M U N A V I L I T Y C O U N T D O W N	MEAL	VENT M D L	DEORBIT PREP	
PLT	SLEEP		POST SLEEP ACT	TPR MSG REVIEW	I M U N A V I L I T Y C O U N T D O W N	MEAL		DEORBIT PREP	
MS1	SLEEP		POST SLEEP ACT	TPR MSG REVIEW	I M U N A V I L I T Y C O U N T D O W N	MEAL		DEORBIT PREP	
MS2	SLEEP		POST SLEEP ACT	TPR MSG REVIEW	I M U N A V I L I T Y C O U N T D O W N	MEAL		DEORBIT PREP	
DAY/NIGHT	[Shaded]		[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]	[Shaded]
ORBIT	73	74	75	76	77	78	79	80	
GSTDN COVERAGE	-CWH	-DKR	-DKR -HAD -MAX	-MAX -IOS -YAR -ORR	-DKR -HAD -MAX -IOS -YAR -ORR	-MLX -BDA -DKR -IOS -YAR -ORR	-MLX -BDA -DKR -IOS -YAR -ORR	-HAW -BUC -ACN -BOT -YAR	-HAW
SGLS COVERAGE	-CTS			-DKR -HAD	-MLX -BDA	-MLX -BDA -NHS	-BUC -NHS	-VTS -NHS	-HTS
TV DEORB EDN NDR						‡ 20:11	‡ 21:44	‡ 23:18	
ATTITUDE & NMVRS		-ZLV NOSE 1ST			IMU	TAIL SUN	IMU	BURN ATT	
EXPT TLW									
NOTES:	<ul style="list-style-type: none"> • HI LOAD DUCT HTR • CHANGEOUT ♦ LAST MEAL CLEANUP • DTO 761 VENT MODEL 								

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
094:18:30 / 095:06:30	005:00:00 / 005:12:00	094:12:30 / 095:00:30	06/ 094 GMT	-20.6	●	APRIL 4, 1983	STS 6	FINAL REV A	3/25/83	
TIC										
FD :06										
MET :005										
CDR										
PLT	LANDING (~5/00:18)									
MS1										
MS2										
DAY/NIGHT										
ORBIT	81	82	83	84	85	86	87	88	89	
GSTDN COVERAGE	BUC -BOT -CDS -MIL -BDA	-GMM -HAM -BUC -CDS -ACN	-MLX -ACN -BOT -GMM -HAM -BUC	-IOS -GMM -HAM -BOT -IOS -GMM -HAM	-ACN -IOS -GMM -HAM -BOT -IOS -GMM -HAM	-ACN -IOS -GMM -HAM -BOT -IOS -GMM -HAM	-ACN -IOS -GMM -HAM -BOT -IOS -GMM -HAM	-ACN -IOS -GMM -HAM -BOT -IOS -GMM -HAM	-ACN -IOS -GMM -HAM -BOT -IOS -GMM -HAM	-ACN -IOS -GMM -HAM -BOT -IOS -GMM -HAM
SCLS COVERAGE	VTS	-GTS -HTS	-VTS -GTS -HTS	-VTS -GTS -HTS	-IOS -GTS	-IOS -GTS	-IOS -GTS	-IOS -GTS	-IOS -GTS	-IOS -GTS
TV										
DEORB EDN	↑ 00:54									
NOR	↑ 00:56									
ATTITUDE										
NNVRS										
EXPT										
TLM										
NOTES:										

DETAILED TIMELINE

DETAILED
TIMELINE

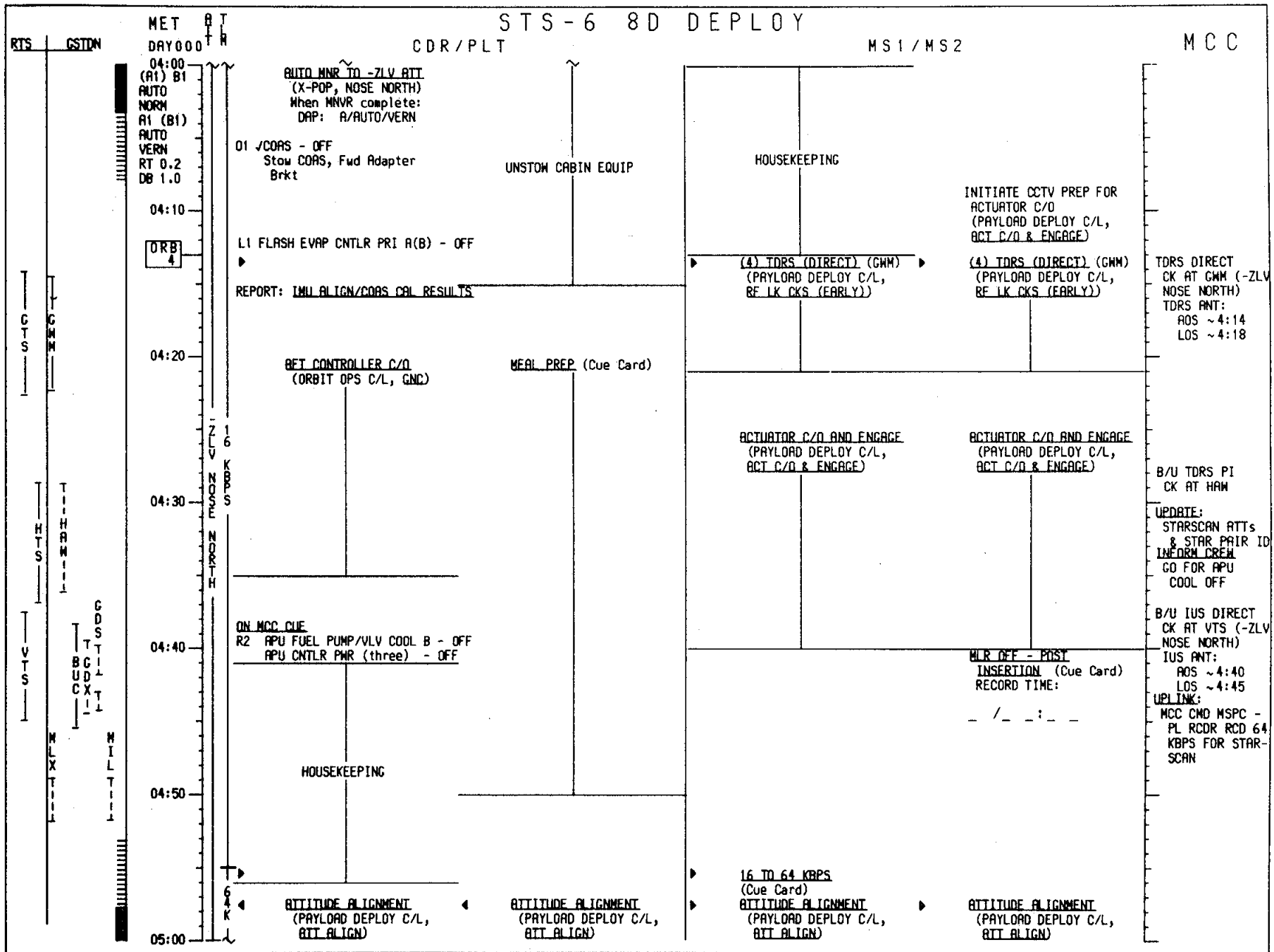
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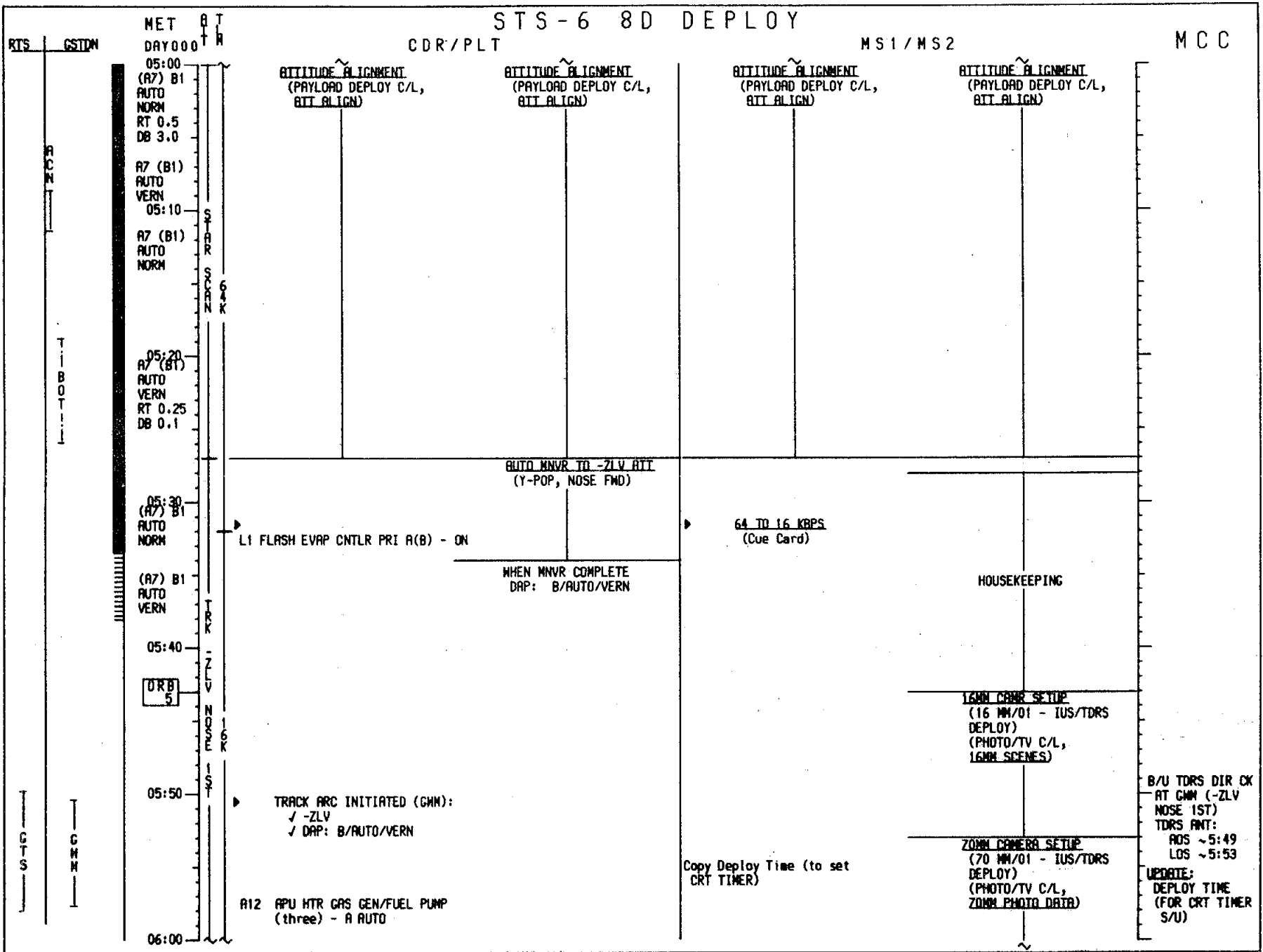
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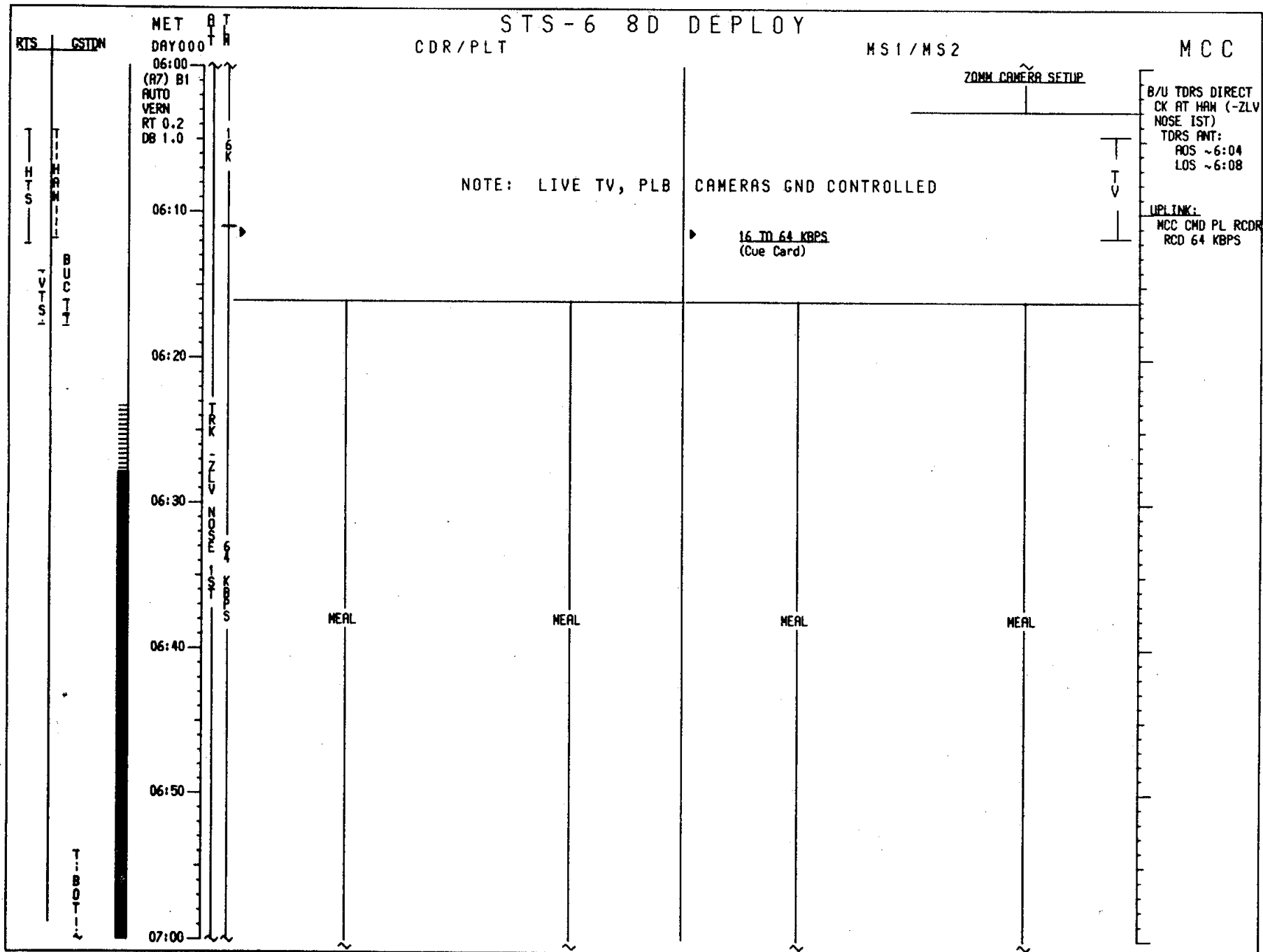

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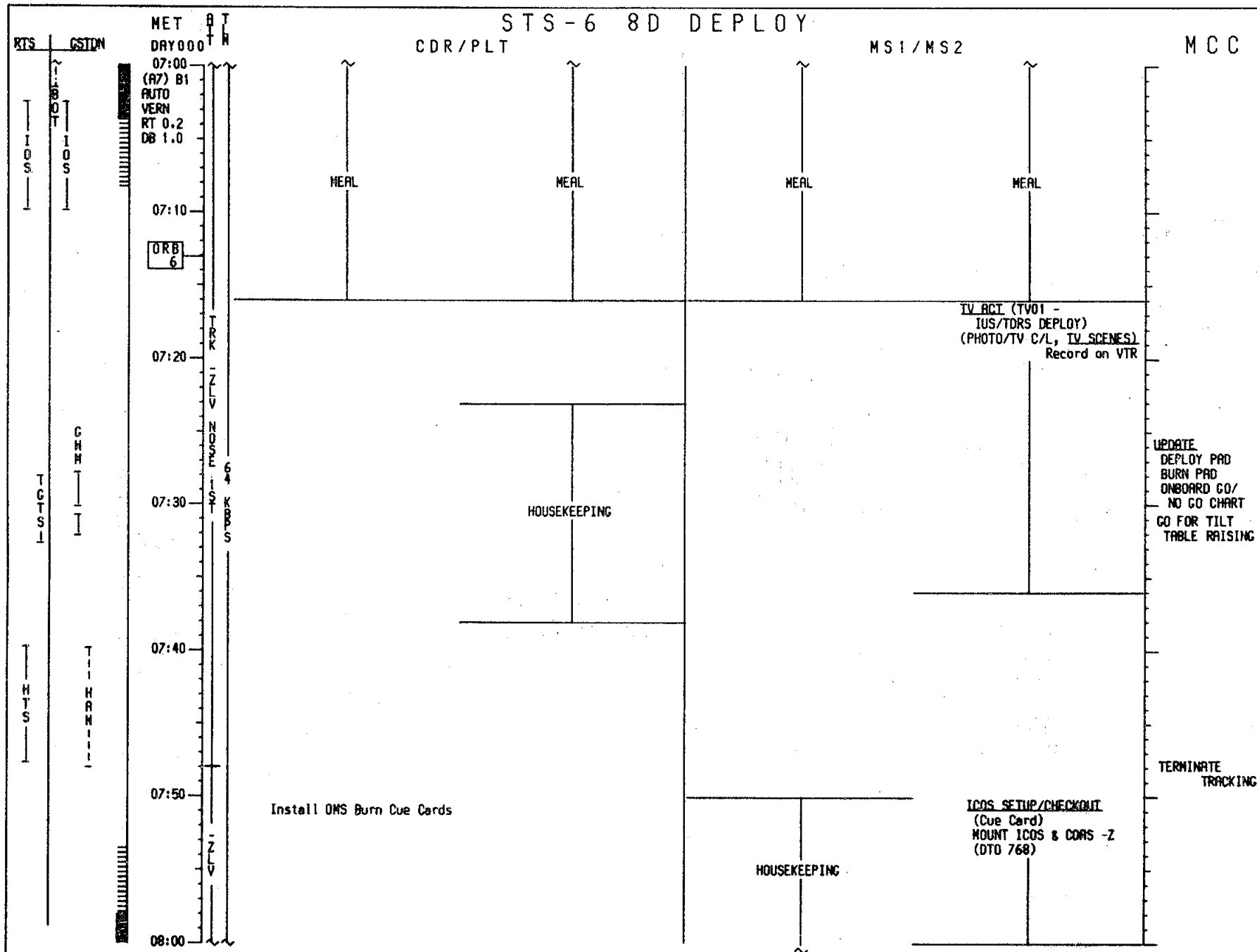
MET		STS-6 8D DEPLOY		MCC	
RTS	CSTDM	CDR/PLT	MS1/MS2		
03:00	(A1) B1 AUTO VERN RT 0.2 DB 1.0		(1) IUS (DIRECT) (VTS) (PAYLOAD DEPLOY C/L, REF LK CKS (EARLY))	(1) IUS (DIRECT) (VTS) (PAYLOAD DEPLOY C/L, REF LK CKS (EARLY))	IUS DIRECT CK AT VTS (-ZLV, NOSE NORTH) IUS ANT: AOS ~3:05 LOS ~3:10
03:10		UNSTOW CABIN EQUIP	64 TO 16 KAPS (Cue Card)	(2) TDRS (PI) SETUP (MIL) (PAYLOAD DEPLOY C/L, REF LK CKS (EARLY))	BACKUP IUS C/O (EARLY) AT MIL
03:20		HOUSEKEEPING			
03:20	(A1) B1 AUTO NORM RT 0.5 DB 3.0	01 /COARS - OFF Unstow COARS, Fwd Adapter Bracket Mount FWD, plug in (01) ATT MUST BE -ZLV AT SUNRISE AUTO MNVR TO IMU ALIGN ATT MNVR OPT: R + 21.4 P + 133.7 Y + 339.1	ANNUNCIATOR, C/W LAMP TEST (ORBIT OPS C/L, EPS)	ANNUNCIATOR, C/W LAMP TEST (ORBIT OPS C/L, EPS)	
03:30		DAP: B/AUTO/NORM (3:28) Initiate MNVR When MNVR complete: DAP: A/AUTO/VERN IMU ALIGNMENT - S TRK (ORBIT OPS C/L, GNC) STAR ID: -Y: 51, ATRIA -Z: 20, ARCTURUS ANG DIF: 92.4 STAR AOS/LOS: 03:28/04:12 AUTO MNVR TO COARS CALIBRATION ATT MNVR OPTION R + 357.2 P + 95.7 Y + 307.3	FIRE/SMOKE DETECT/SUP- PRES TEST (ORBIT OPS C/L, EPS)		
03:30			FOOD WARMER ACT (Cue Card)	(3) TDRS (PI) LINK C/O (ACN) (PAYLOAD DEPLOY C/L, REF LK CKS (EARLY))	(3) TDRS (PI) LINK C/O (ACN) (PAYLOAD DEPLOY C/L, REF LK CKS (EARLY))
03:40	(A1) B1 AUTO NORM		PCS 1(2) ON-ORBIT ACT/ RECONFIG (ORBIT OPS C/L, ECLS) Reconfig for SYS 1	PCS 1(2) ON-ORBIT ACT/ RECONFIG (ORBIT OPS C/L, ECLS) Reconfig for SYS 1	UPLINK: TDRS PI OFF CMD AT END OF TEST
03:50	(A1) B1 AUTO VERN	DAP: B/AUTO/NORM Initiate MNVR When MNVR complete: DAP: A/AUTO/VERN COARS CALIBRATION (ORBIT OPS C/L, GNC) STAR ID: +X 12, CANOPUS STAR AOS/LOS: 03:11/04:01 AUTO MNVR TO -ZLV ATT (X-POP, NOSE NORTH) TCT ID +2 BODY VECT +3 DN +90 DAP: B/AUTO/NORM Initiate TRK	UNSTOW CABIN EQUIP	TDRS SPOT NET READING NOTE: PL BAY FLOODS FWD, AFT (Four) - ON FWD BHD - ON ASA - 400 RECORD: F/STOP _____ SHUTTER SPEED _____	
04:00	(A1) B1 AUTO NORM RT 0.5 DB 3.0		* If Thermal Powerdown, * Perform COURSE ATTITUDE XFER, * (PAYLOAD DEPLOY C/L, * ATT ALIGN)		

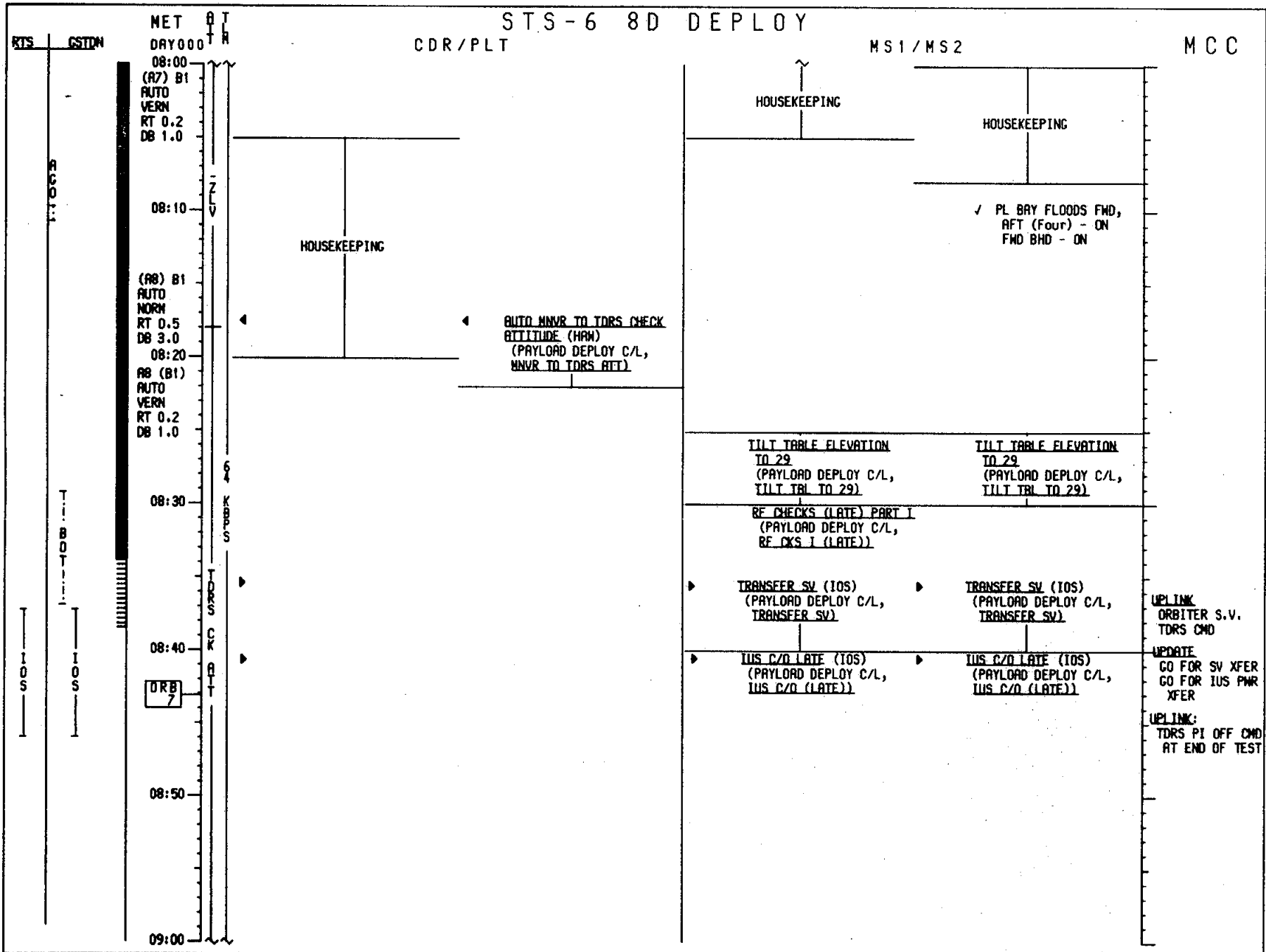
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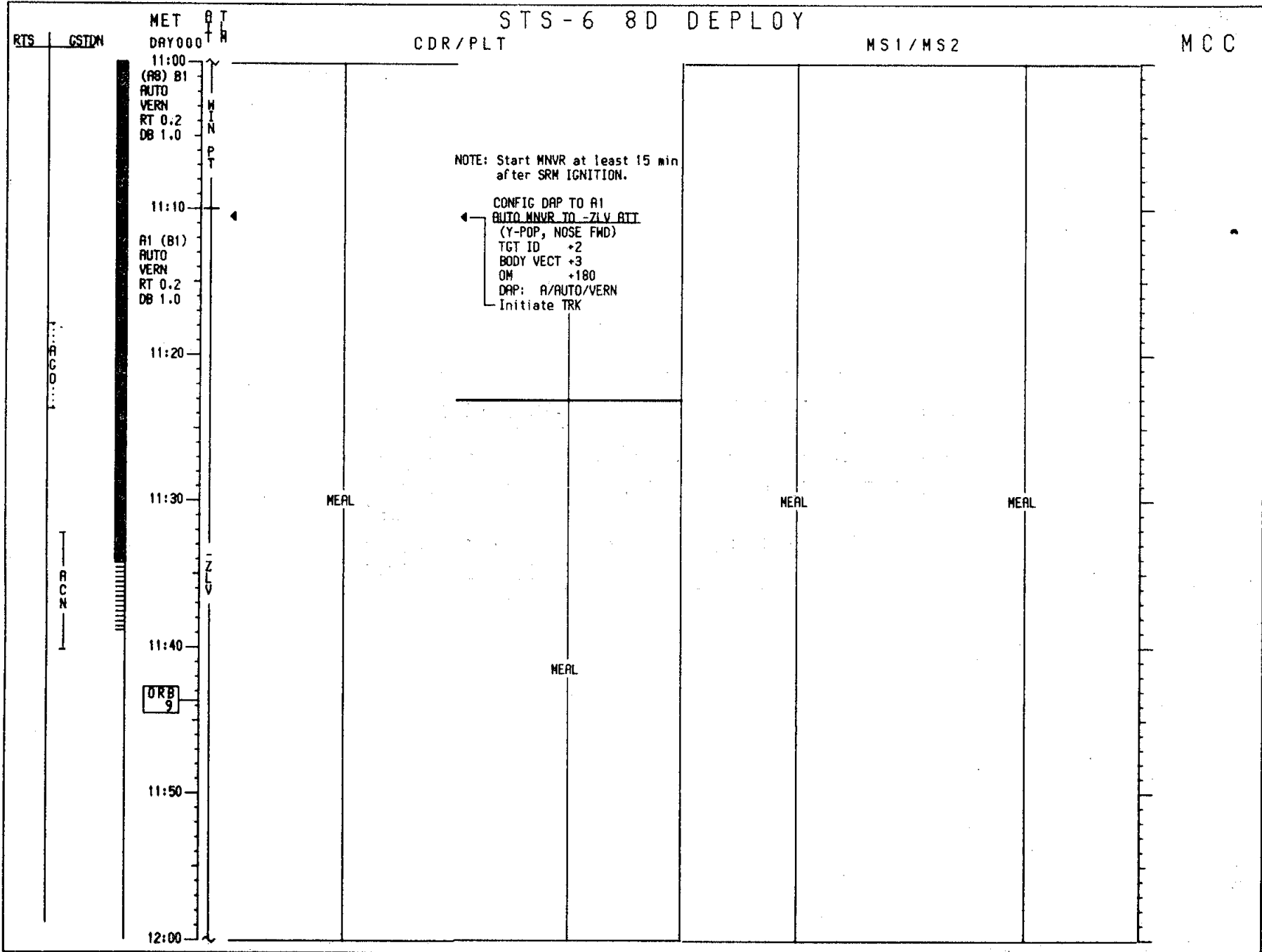




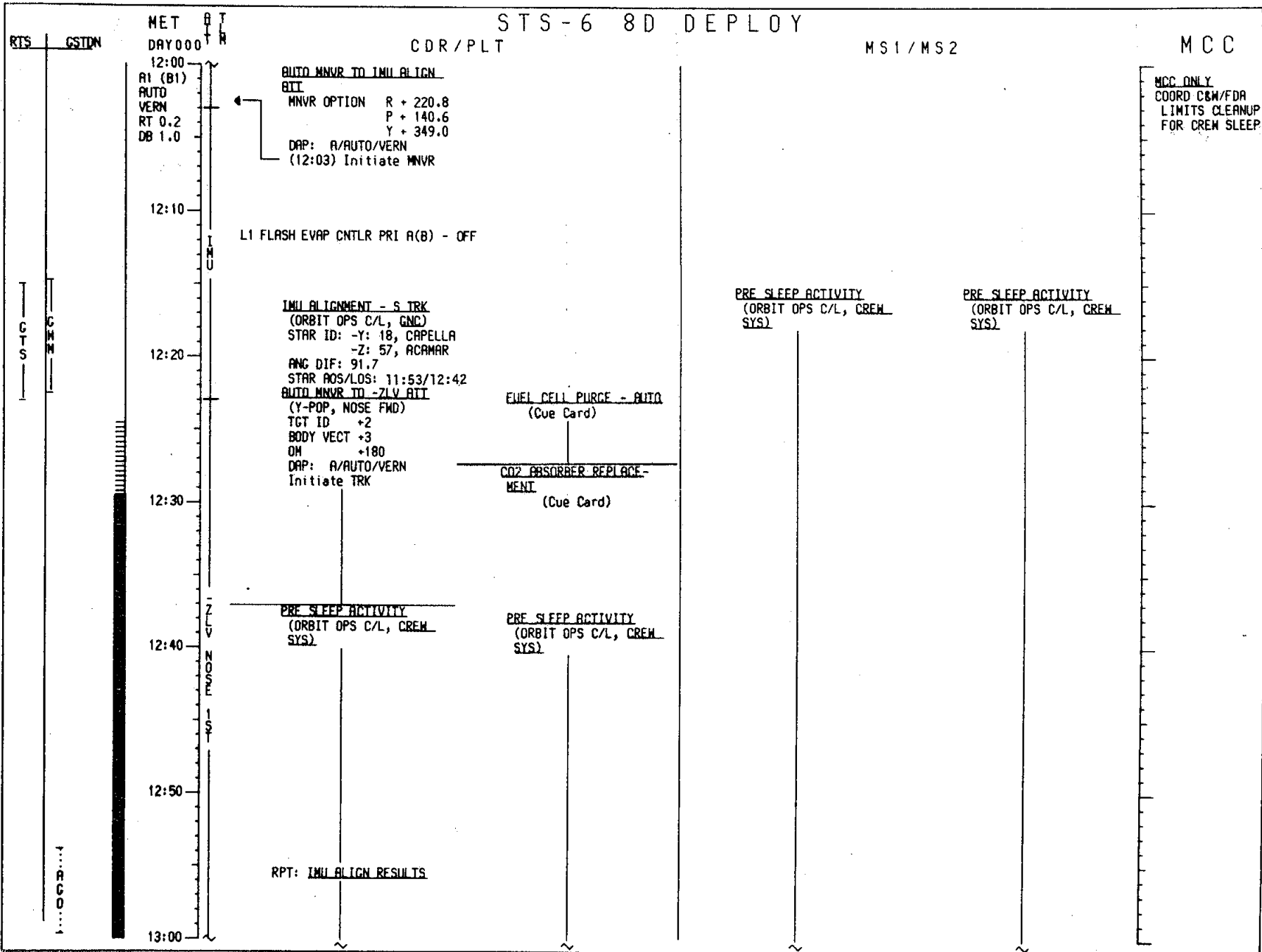


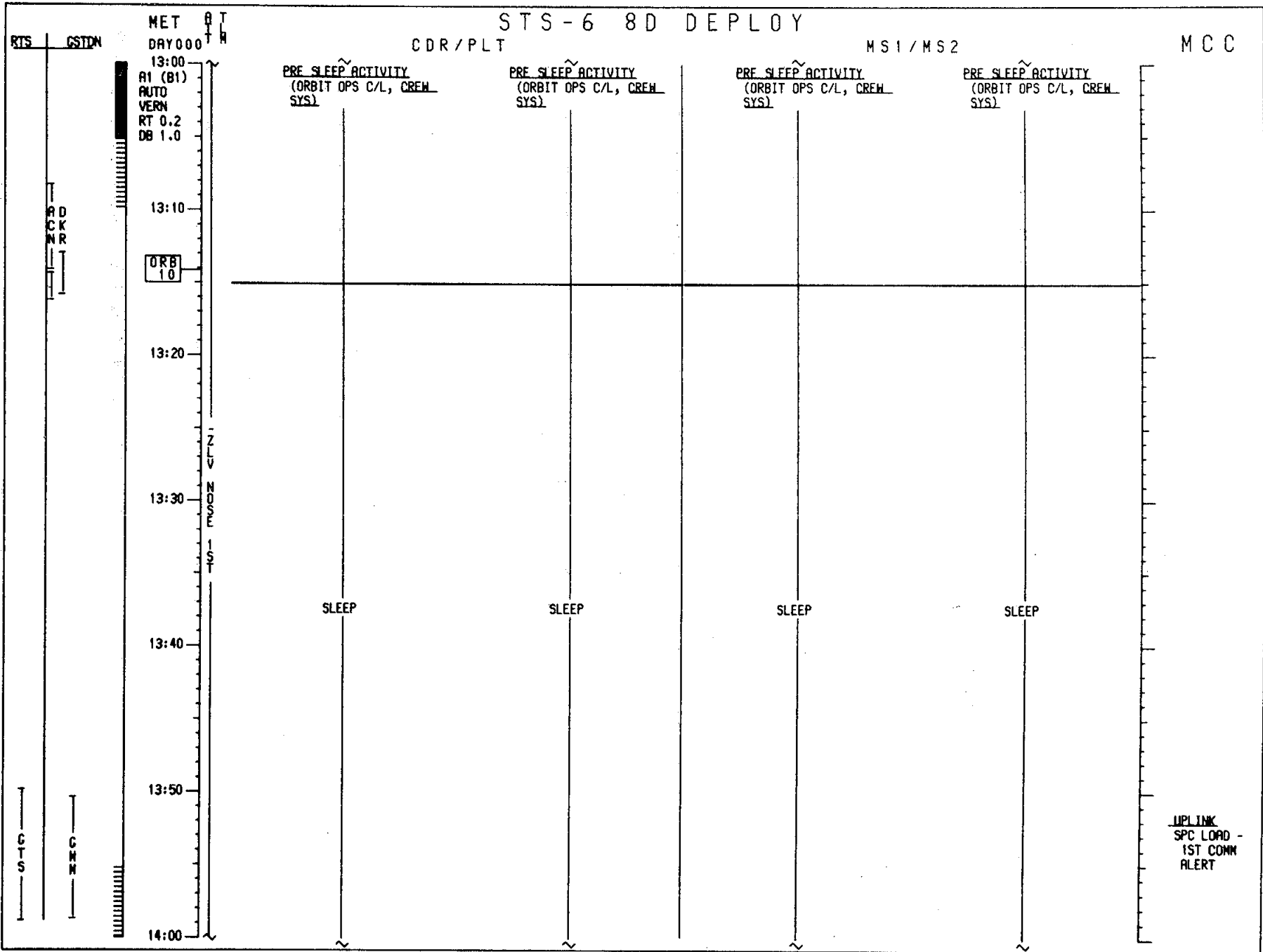


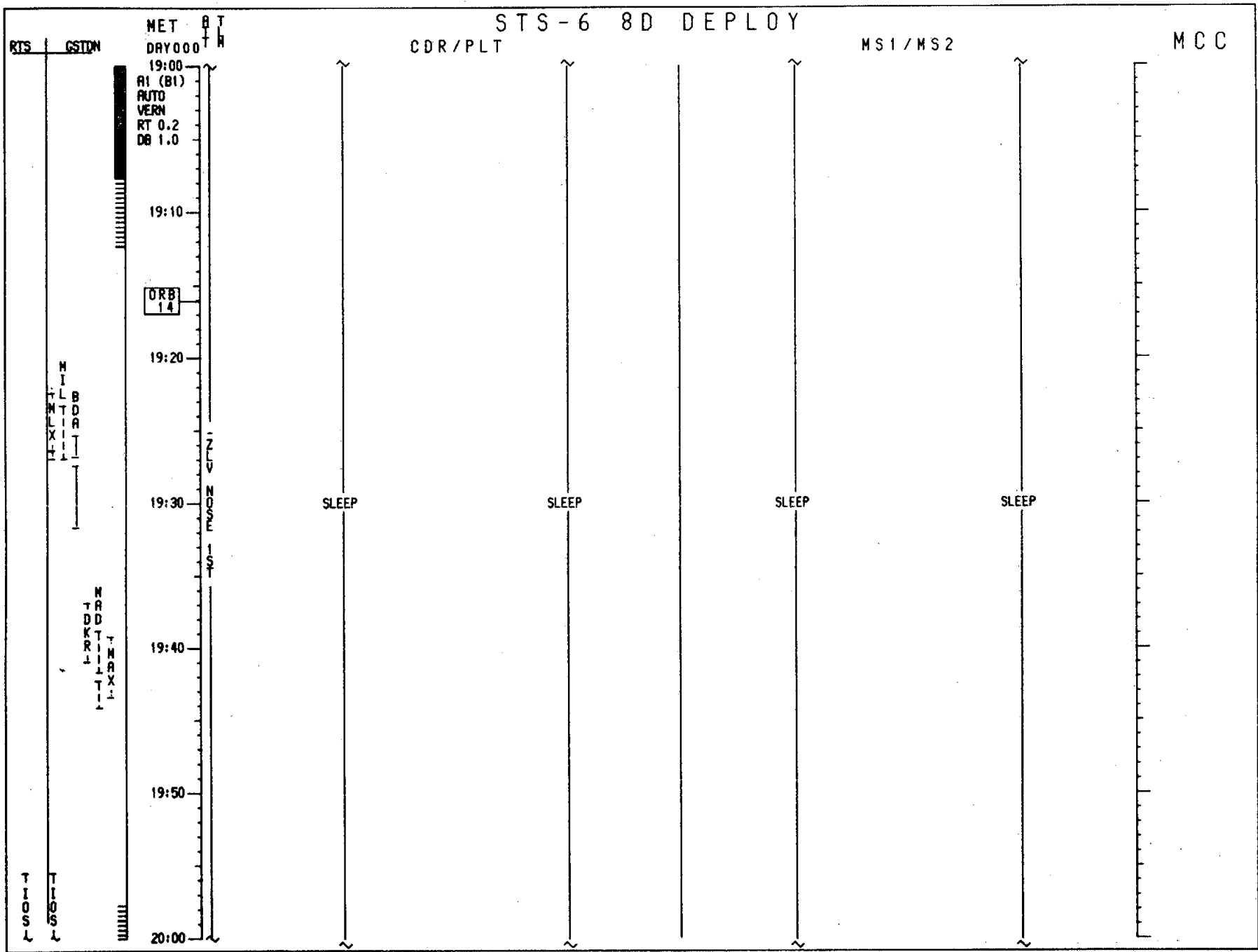


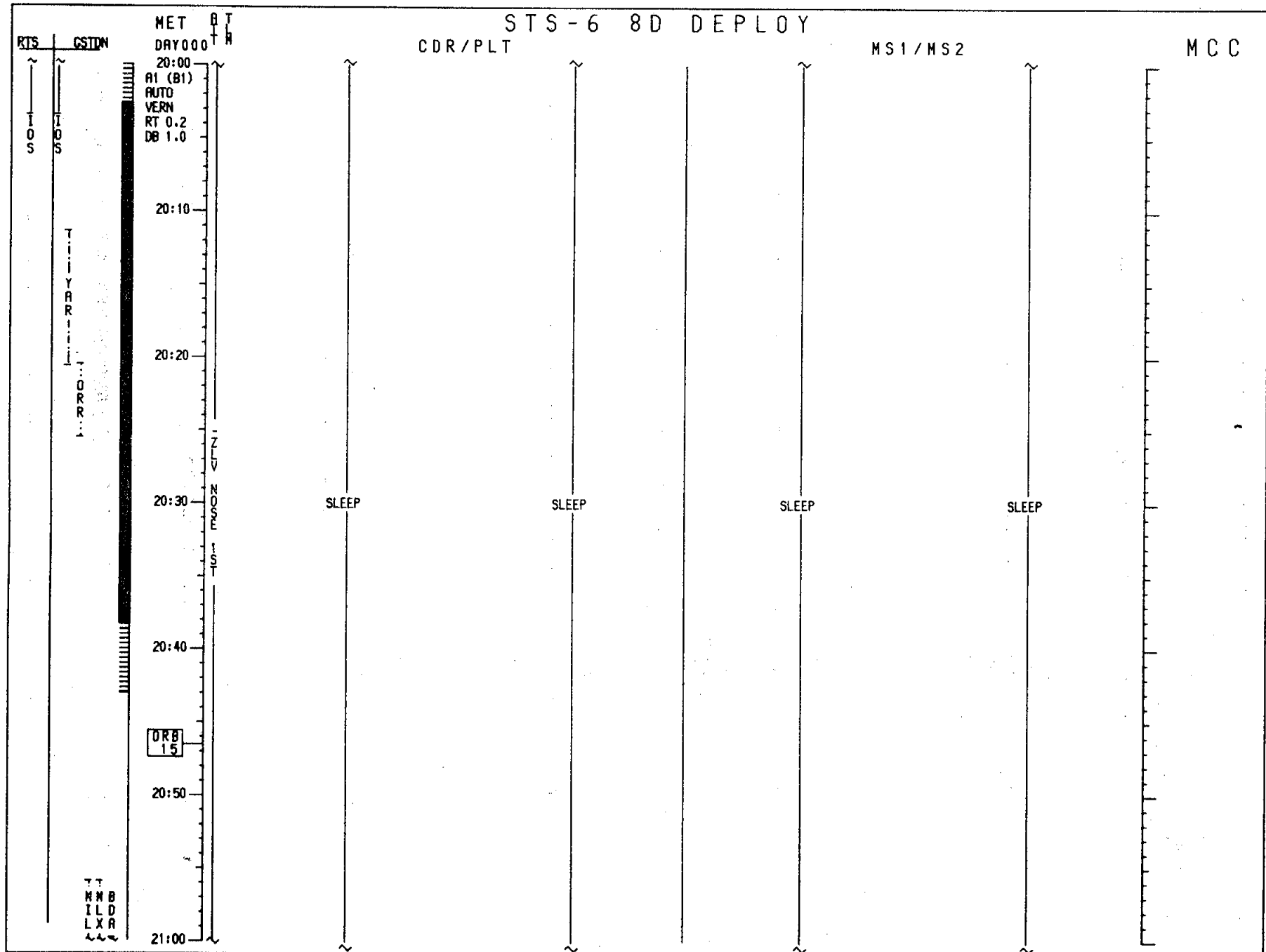


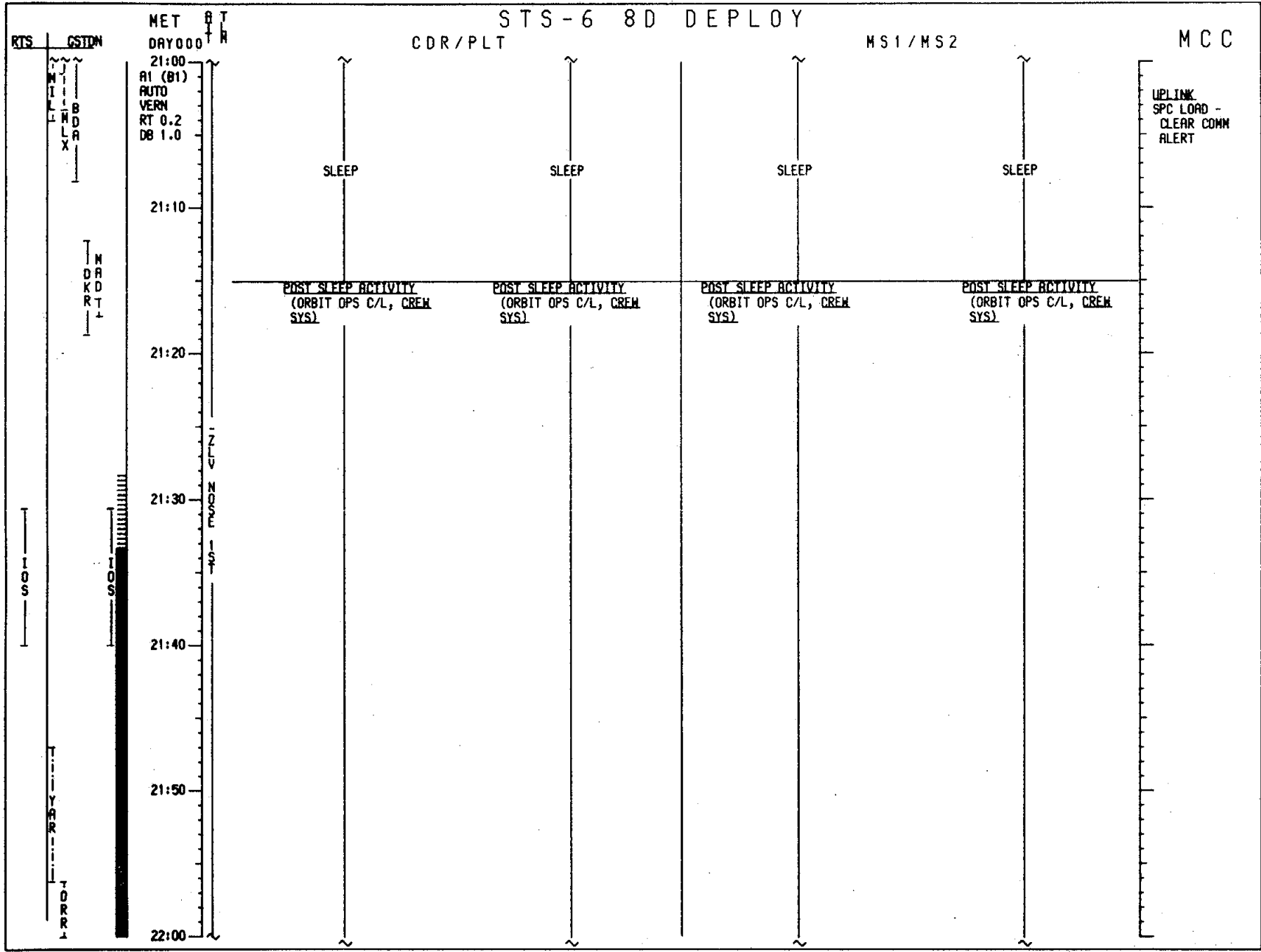
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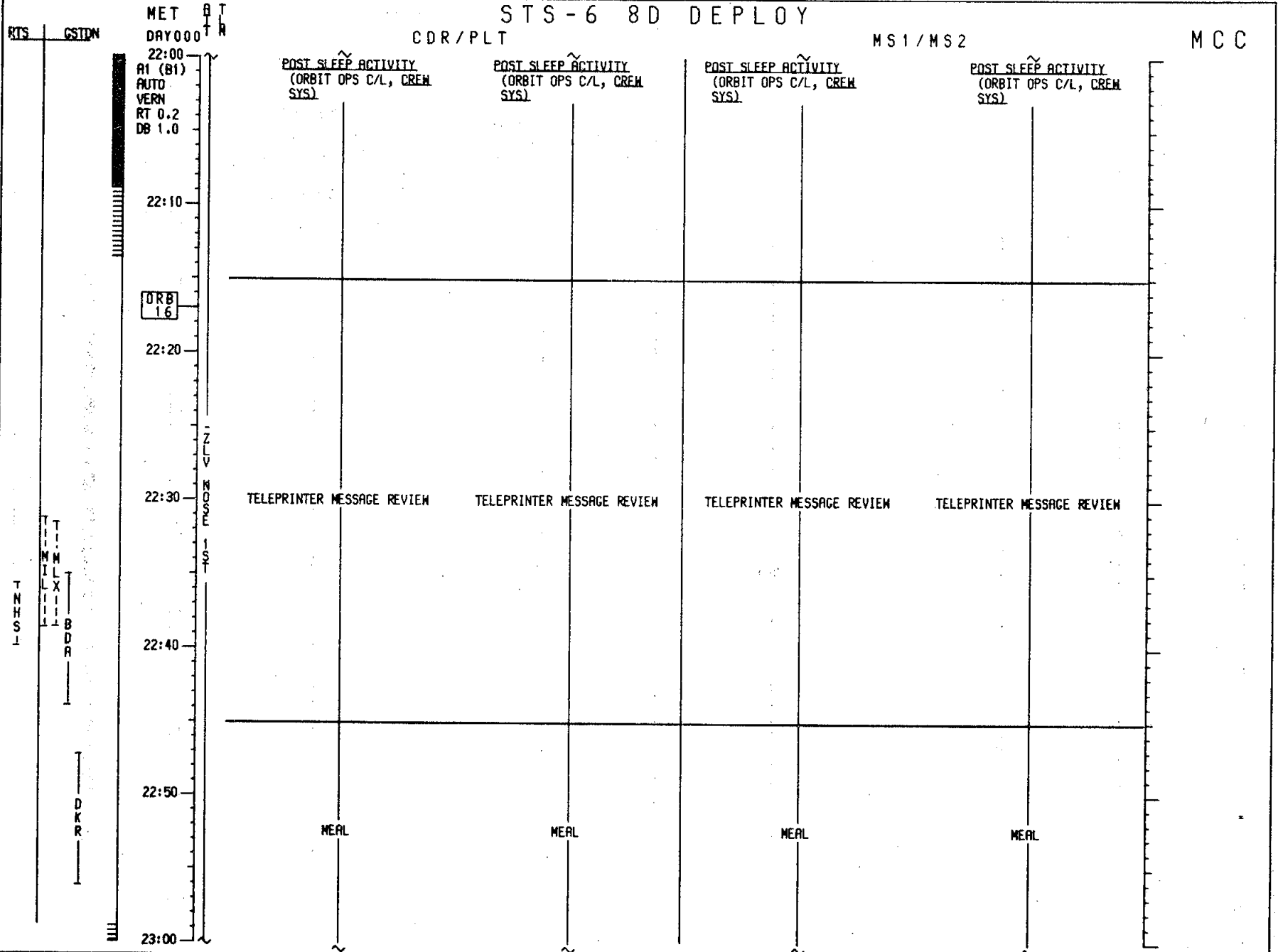


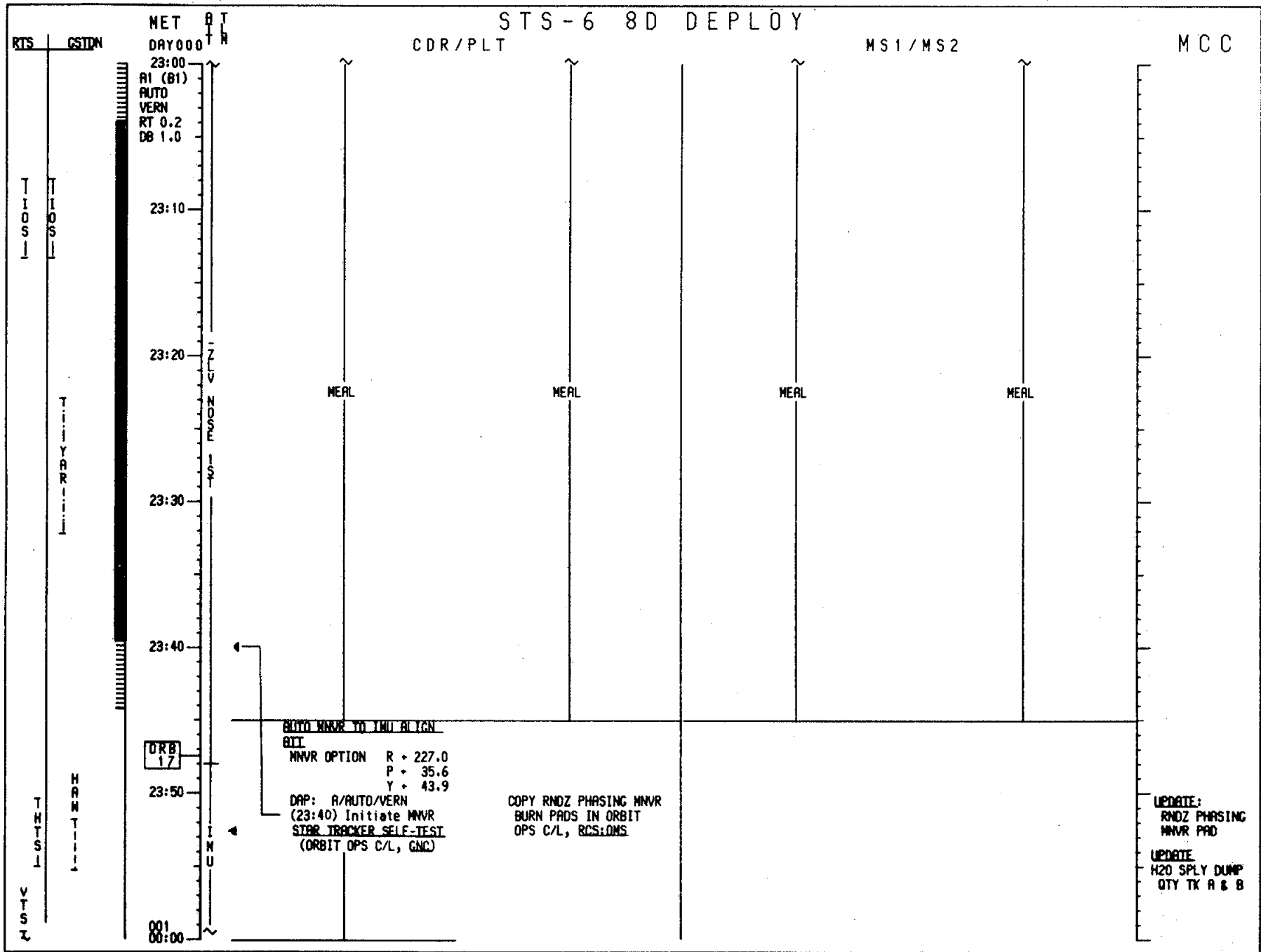






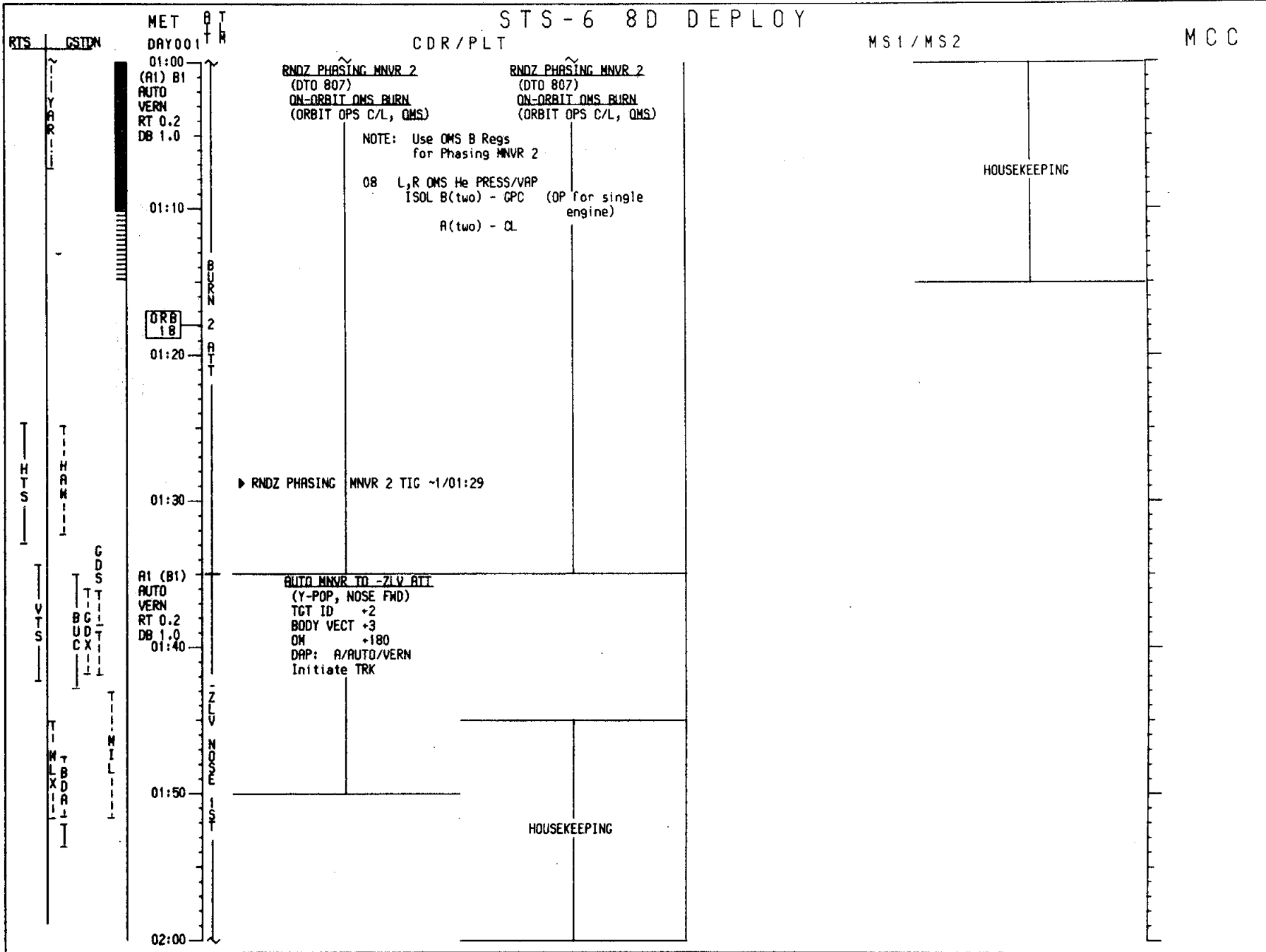


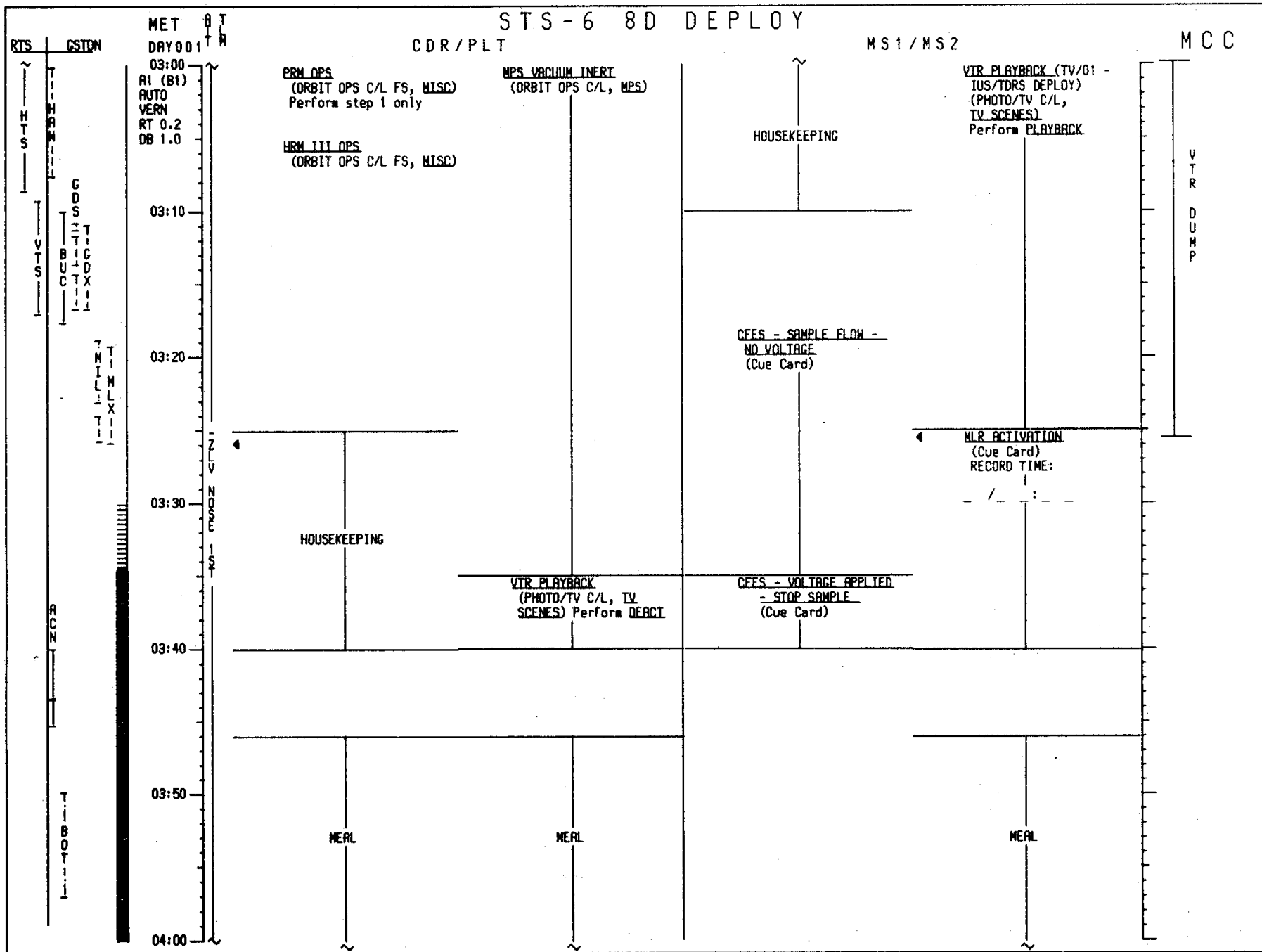


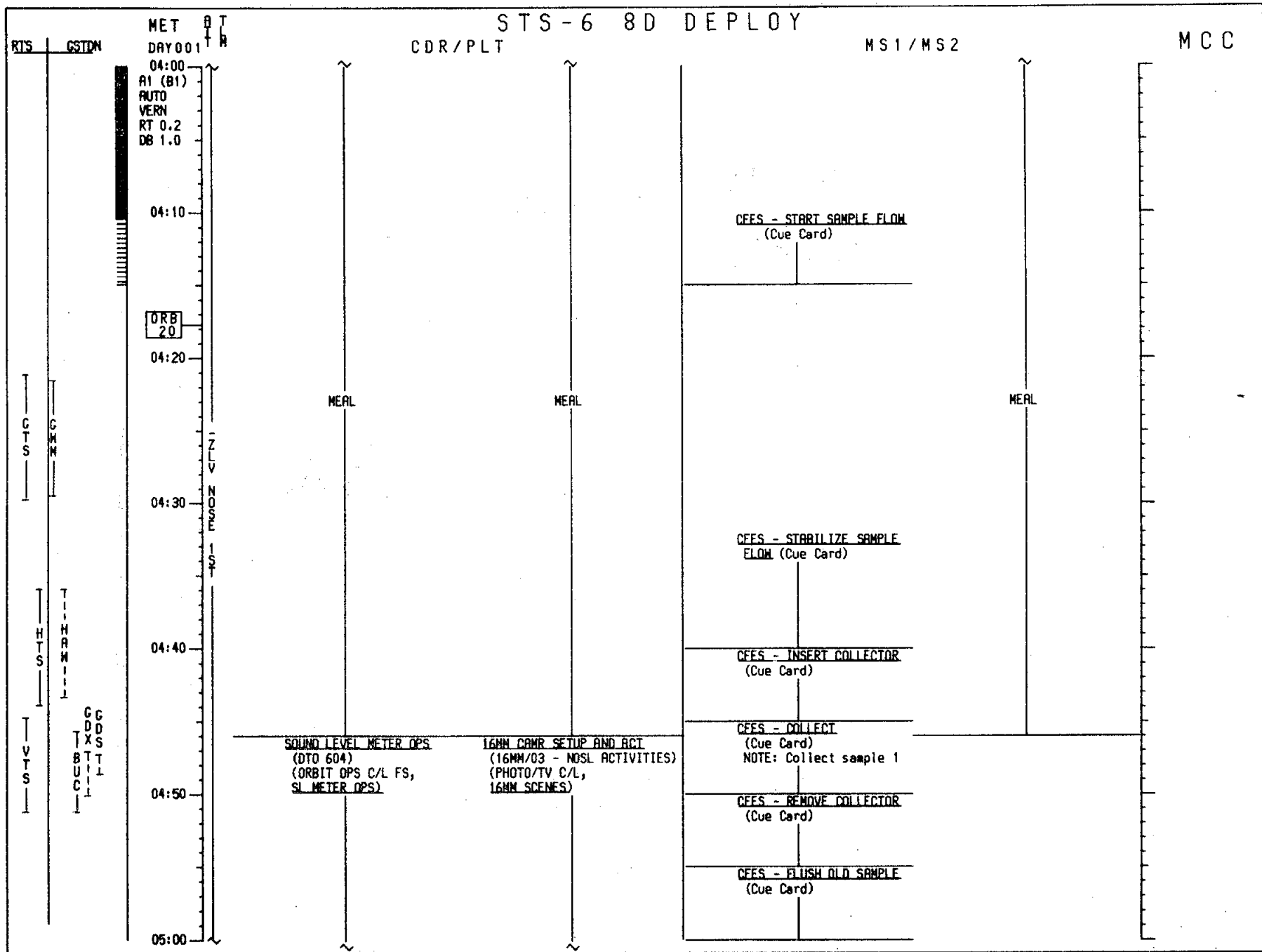


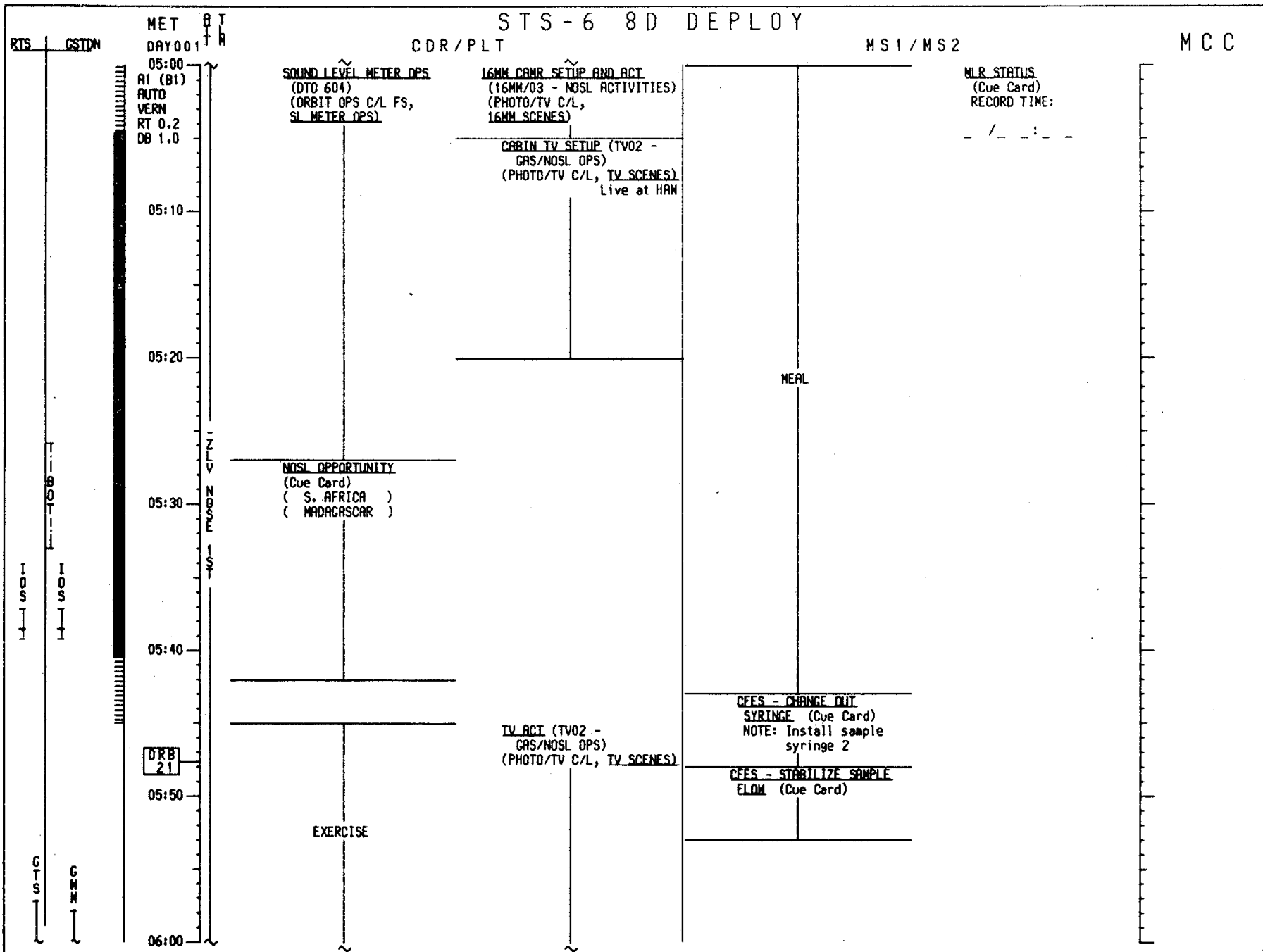
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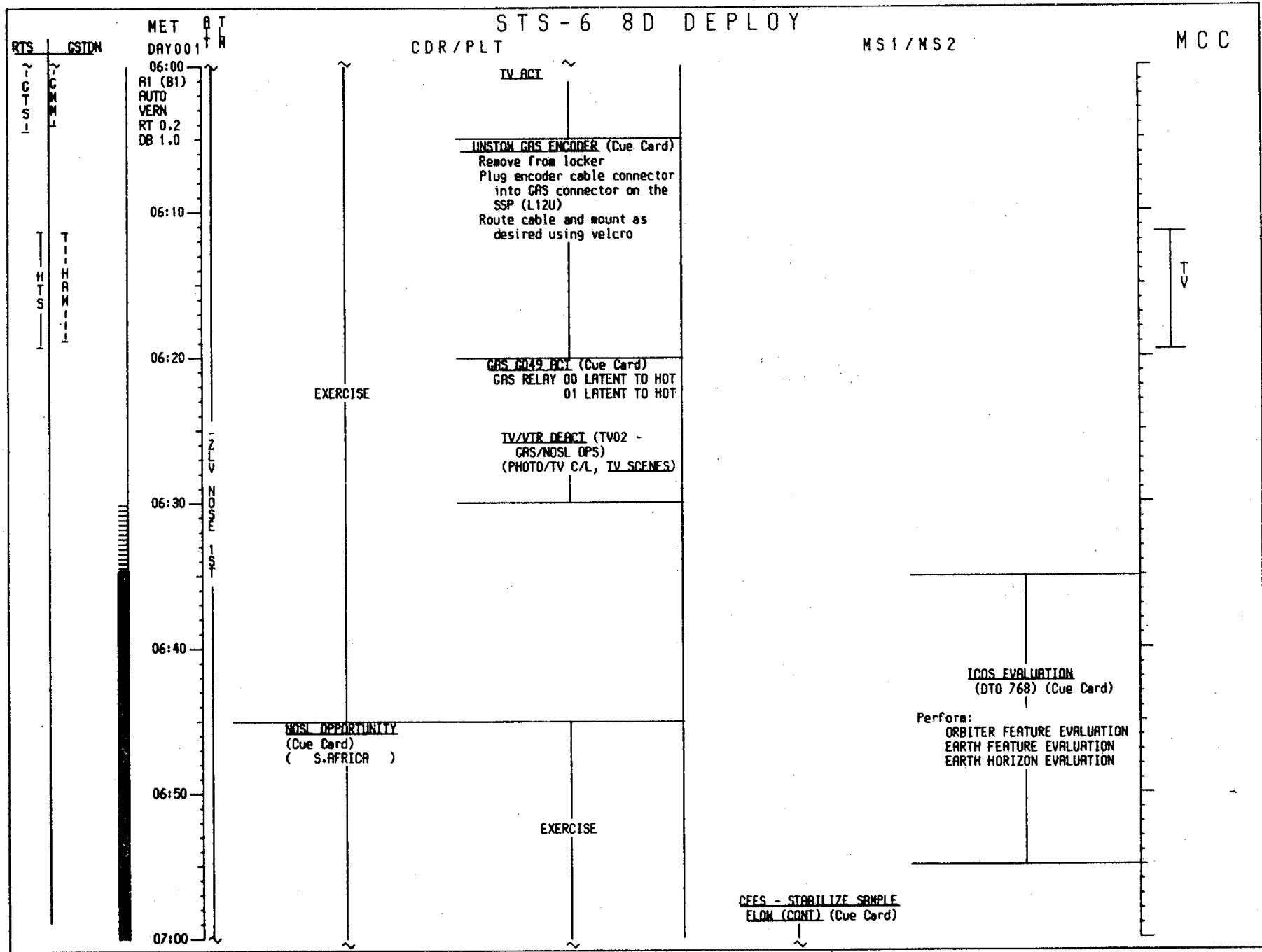
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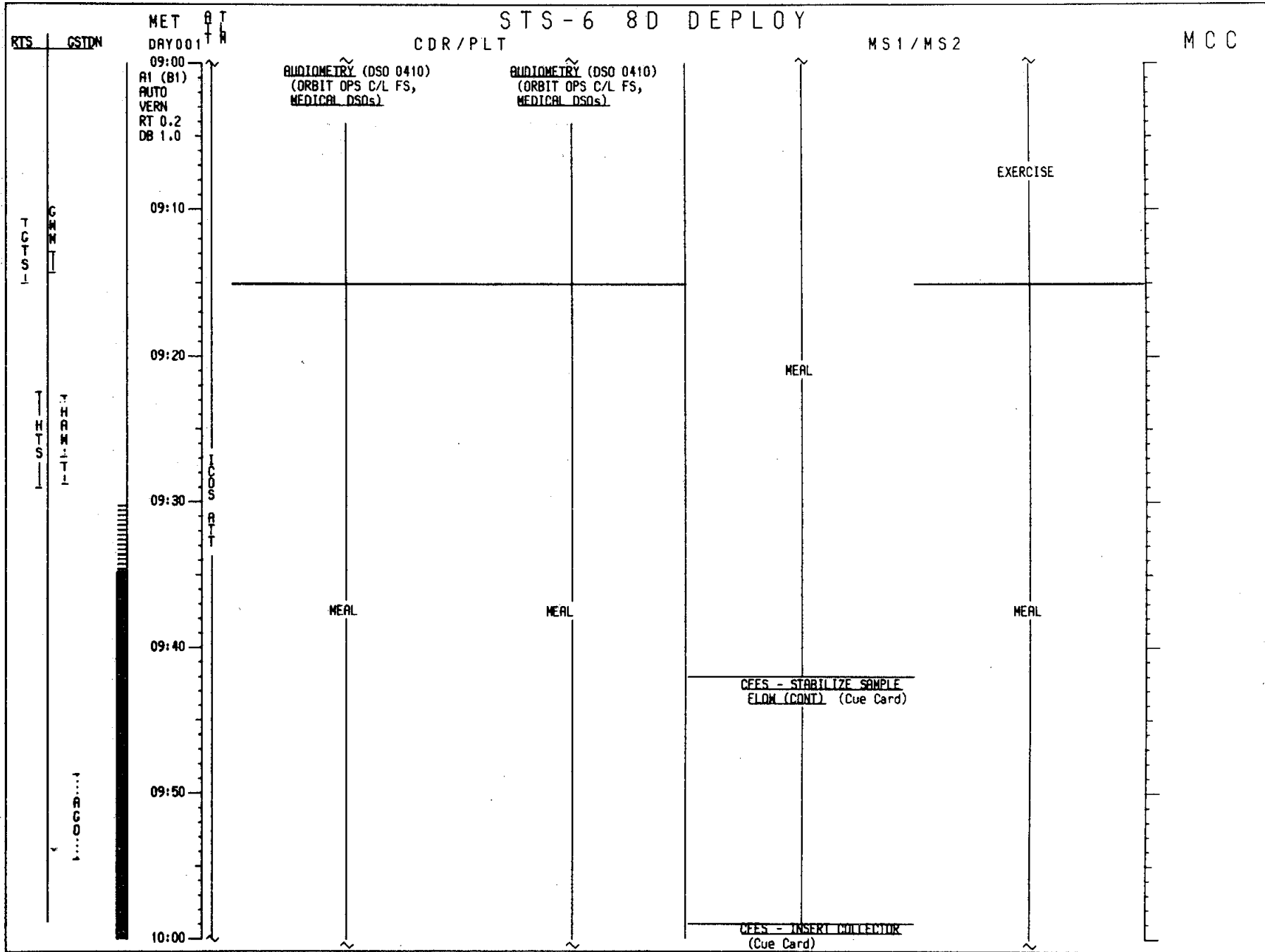







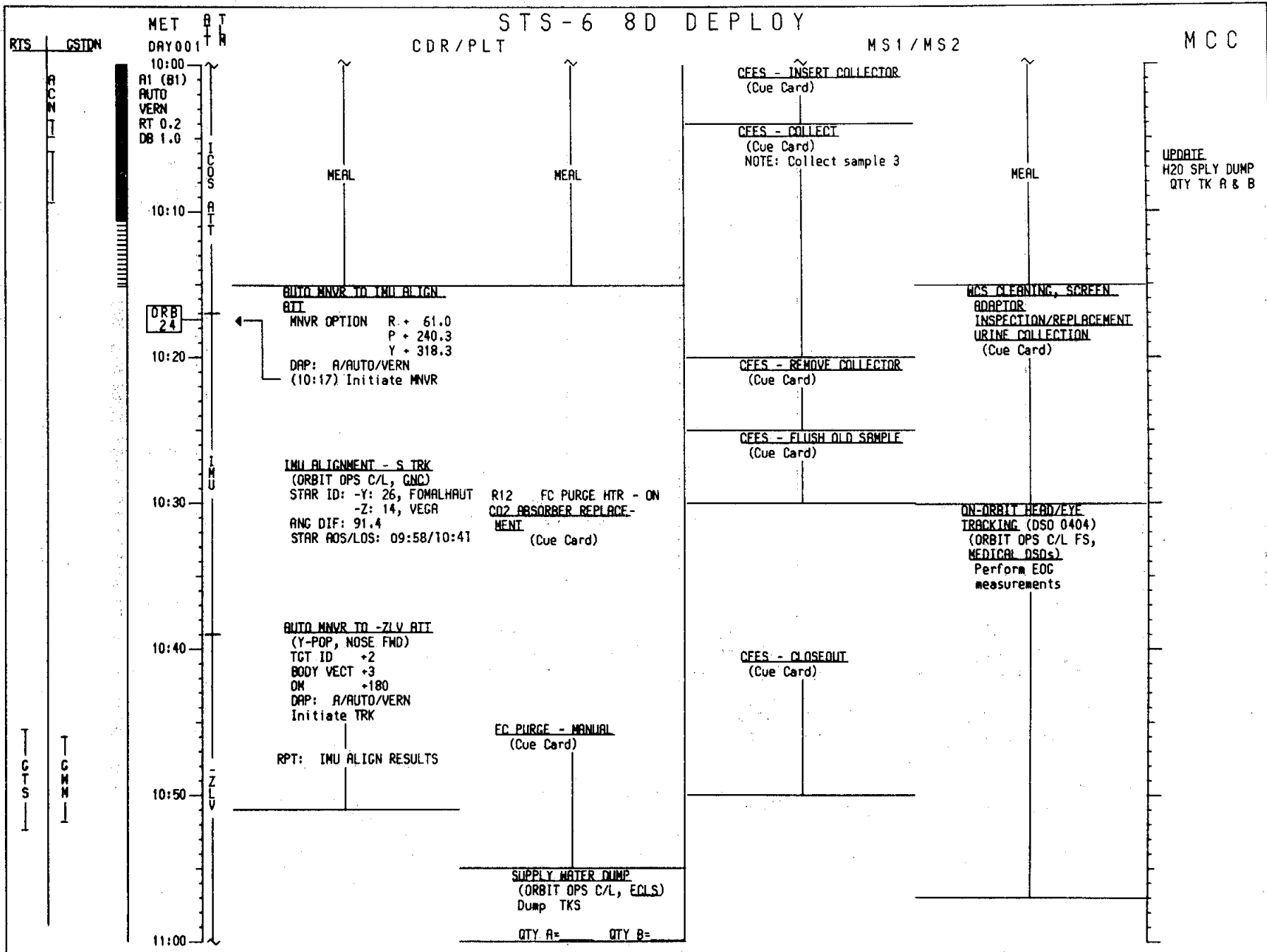


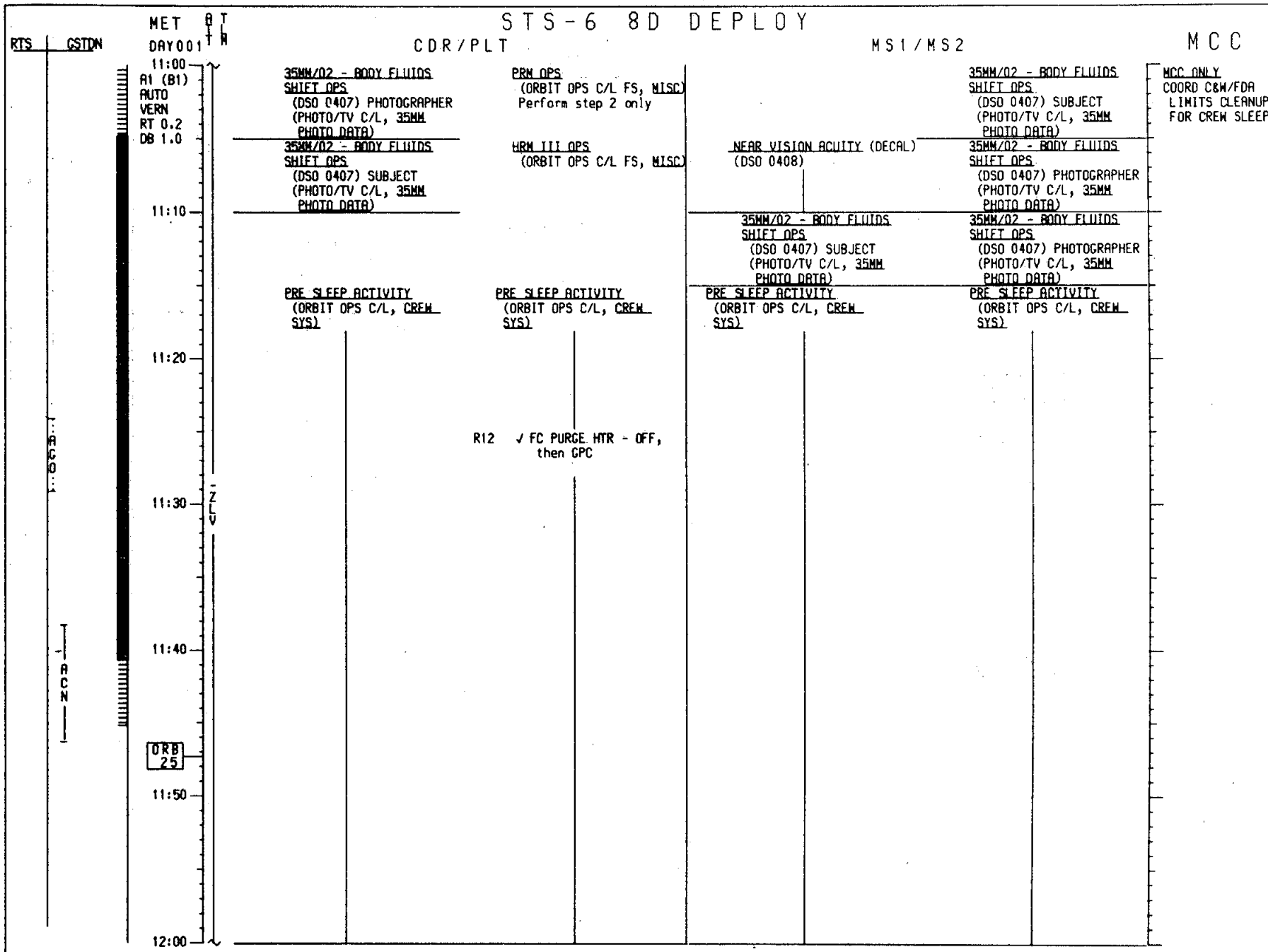


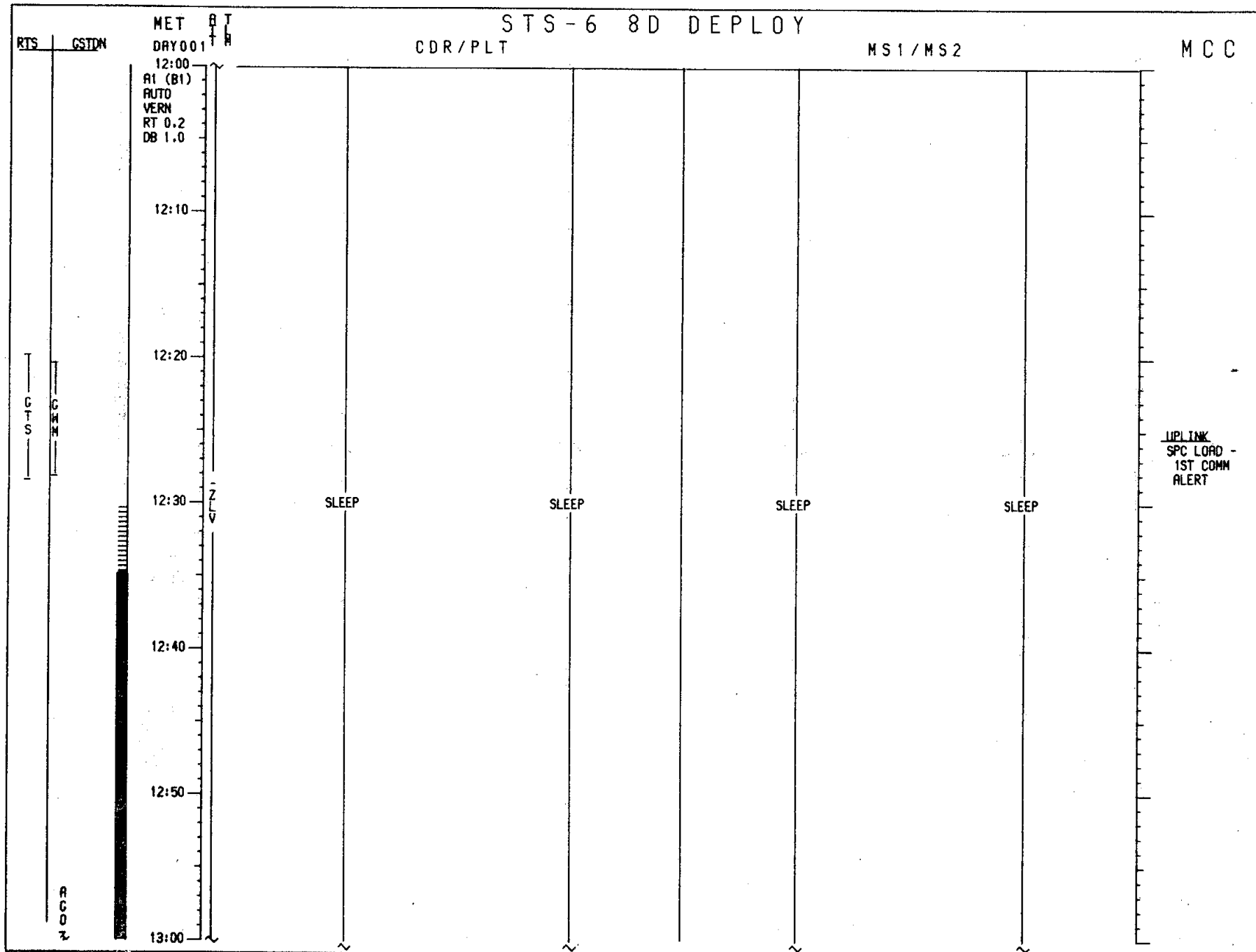


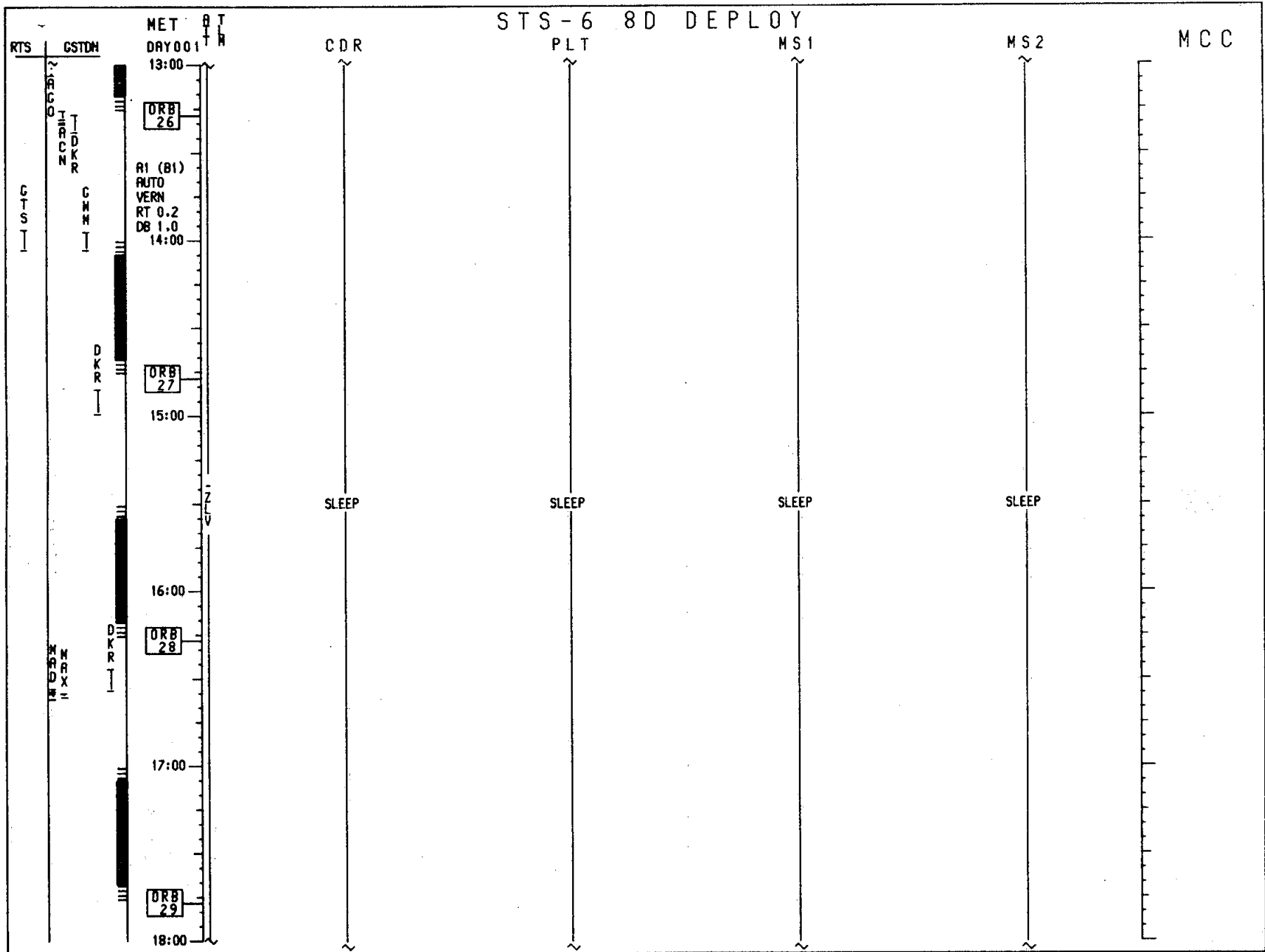
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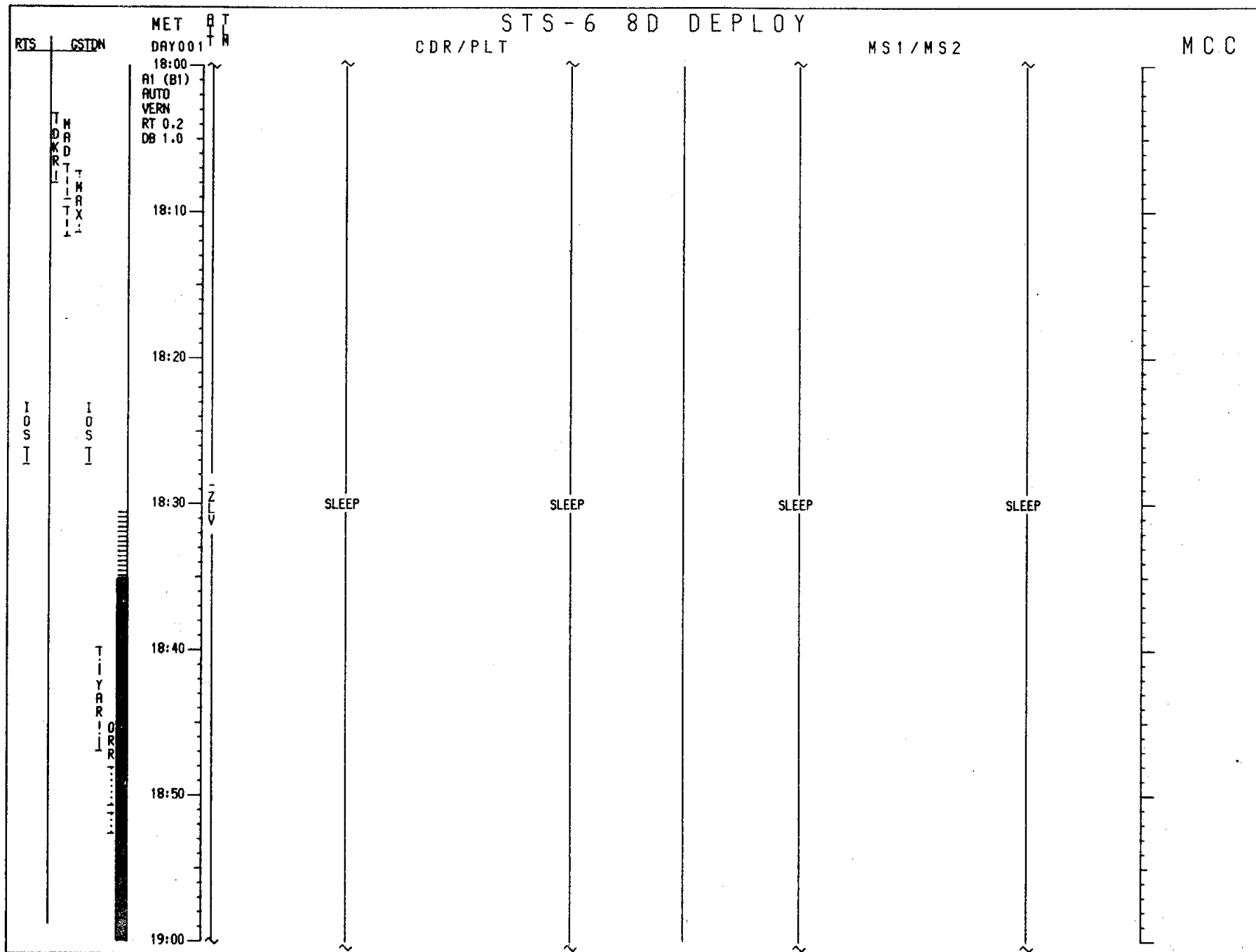
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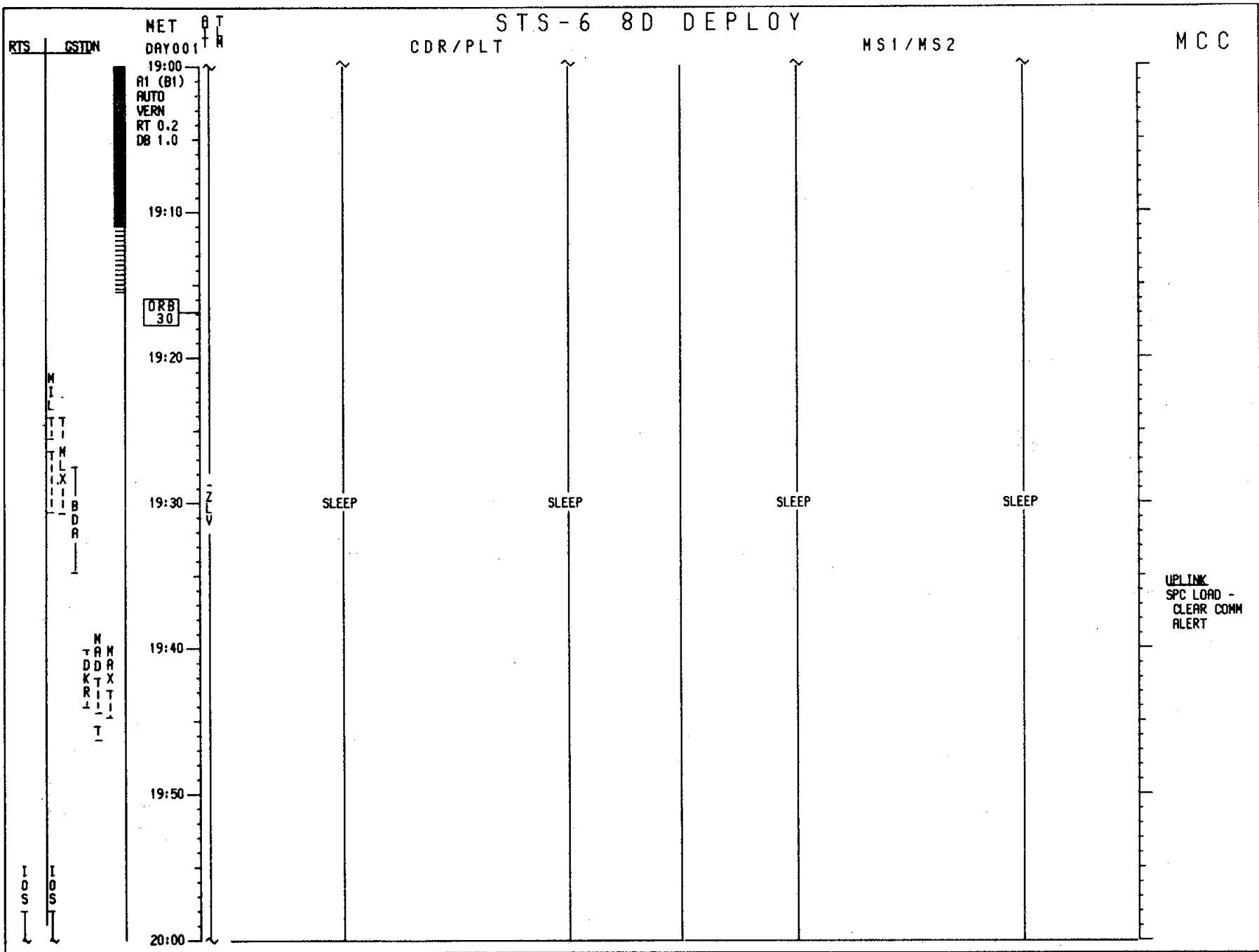


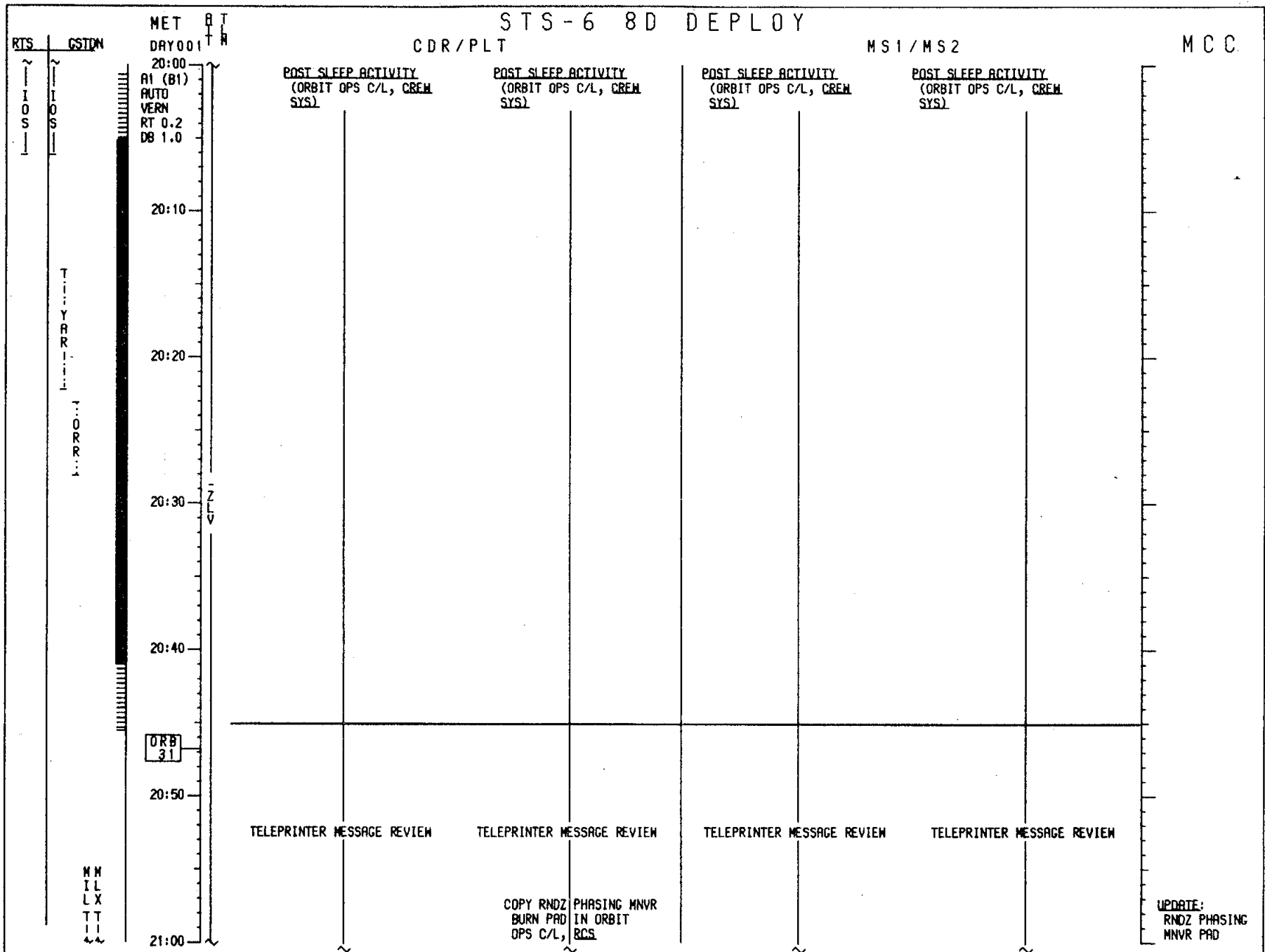


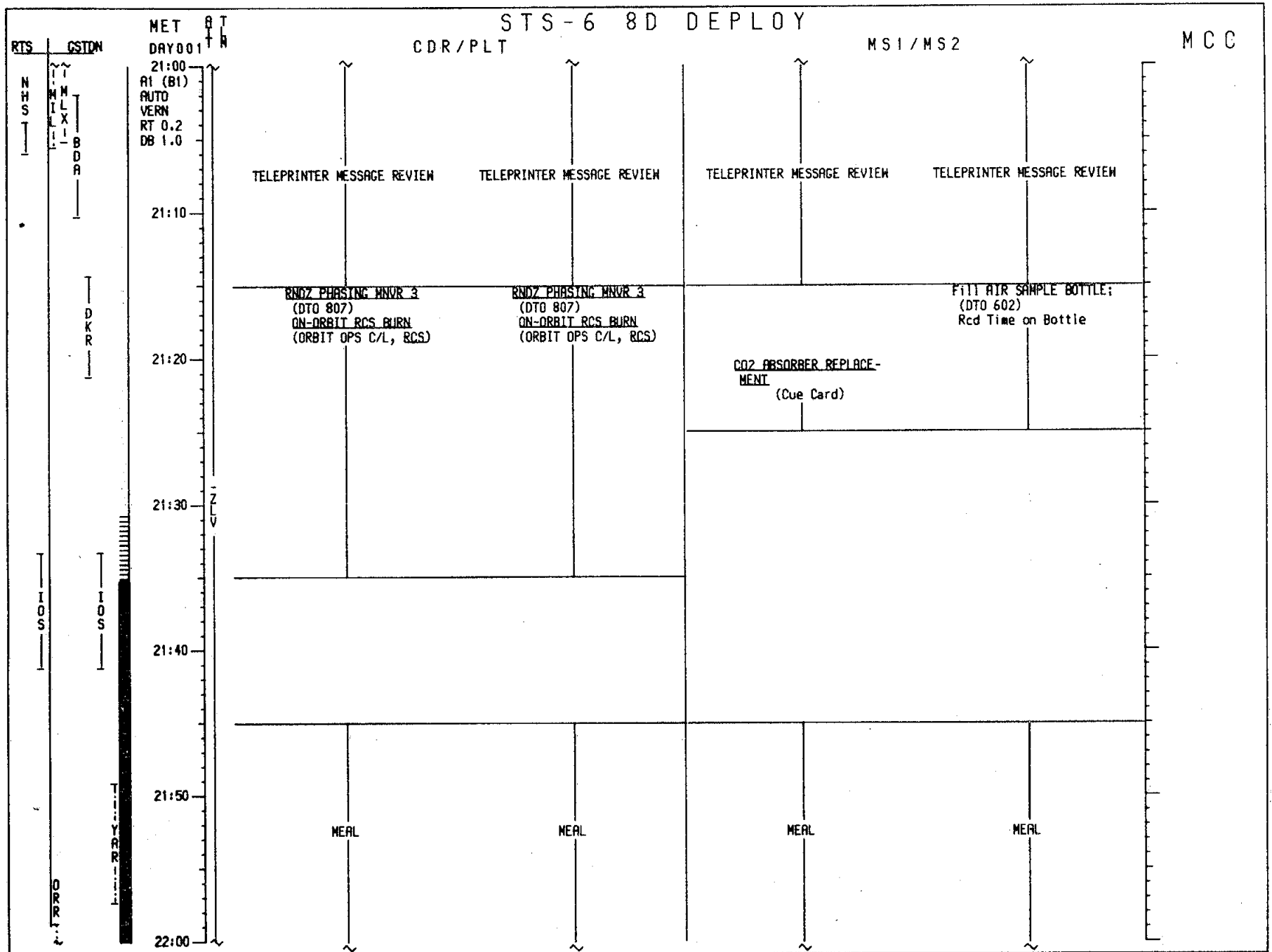


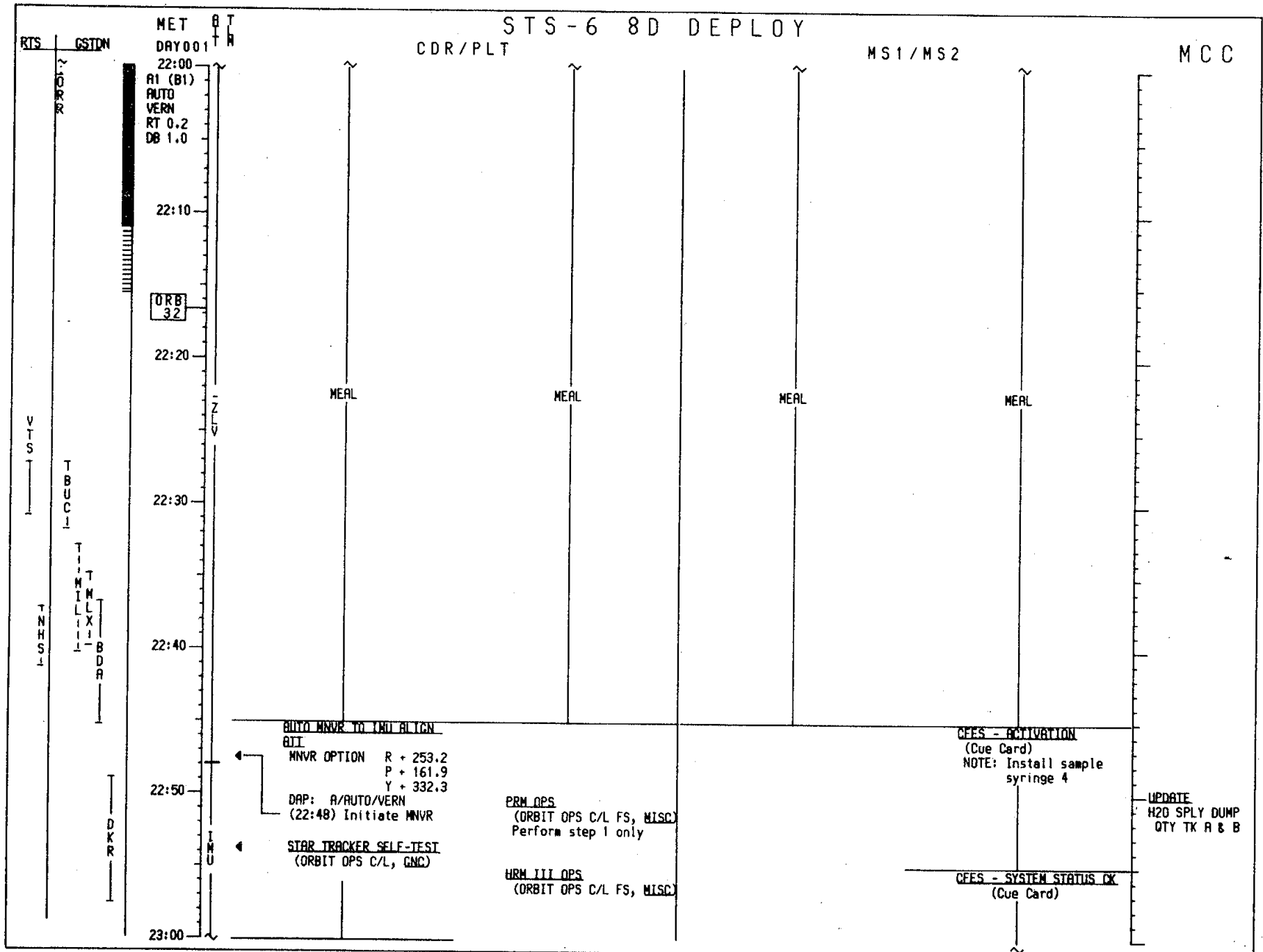




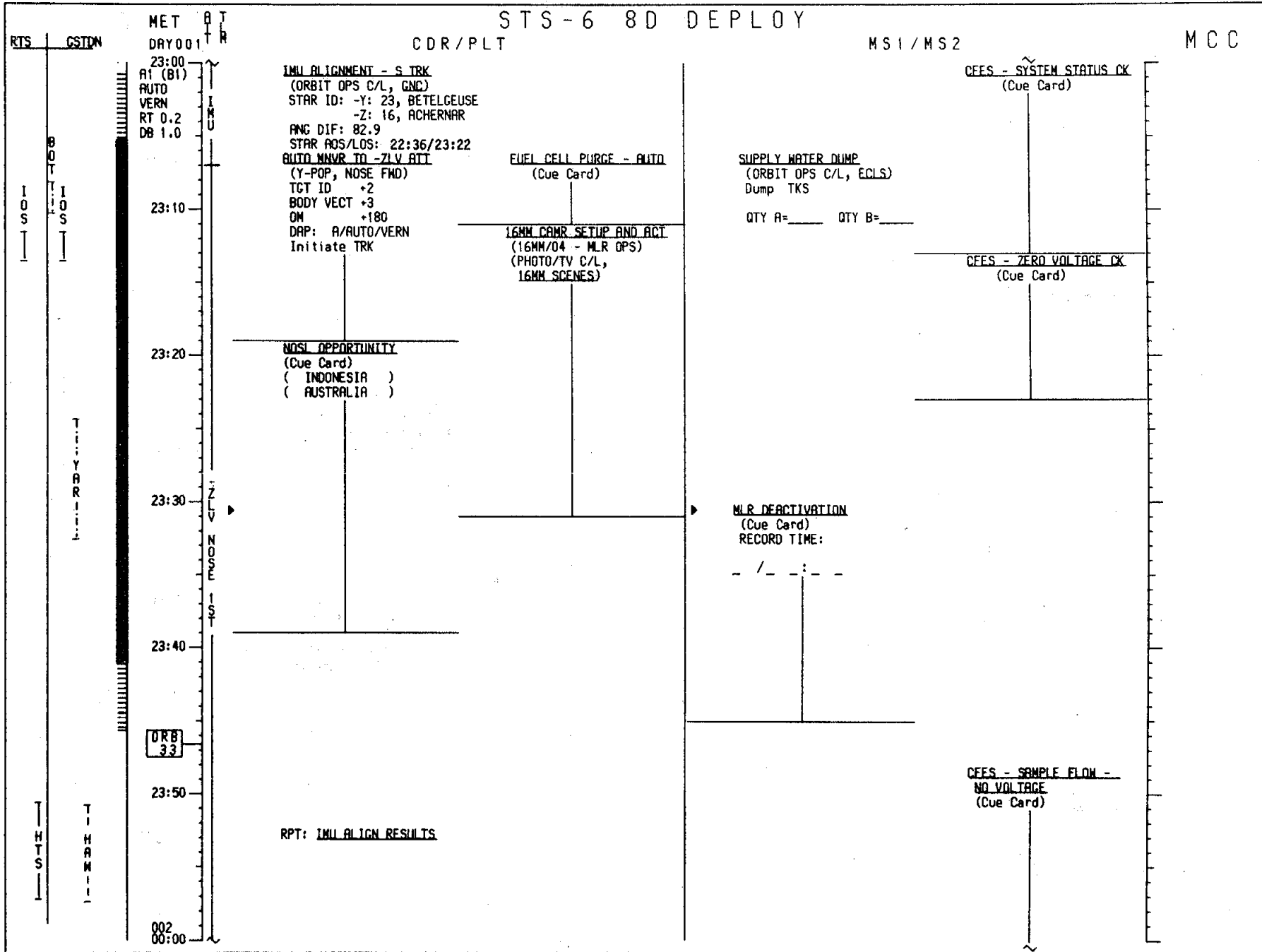


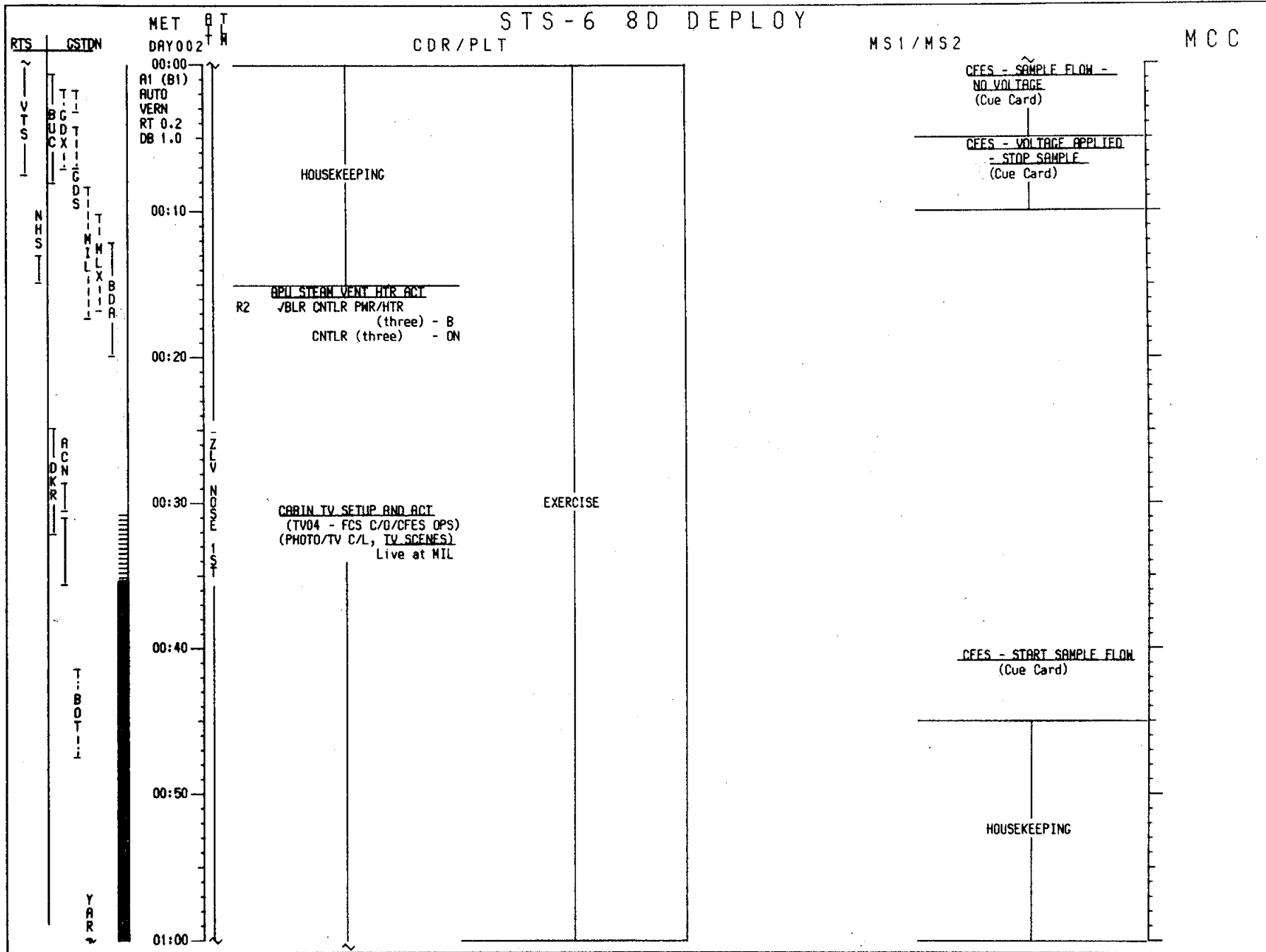


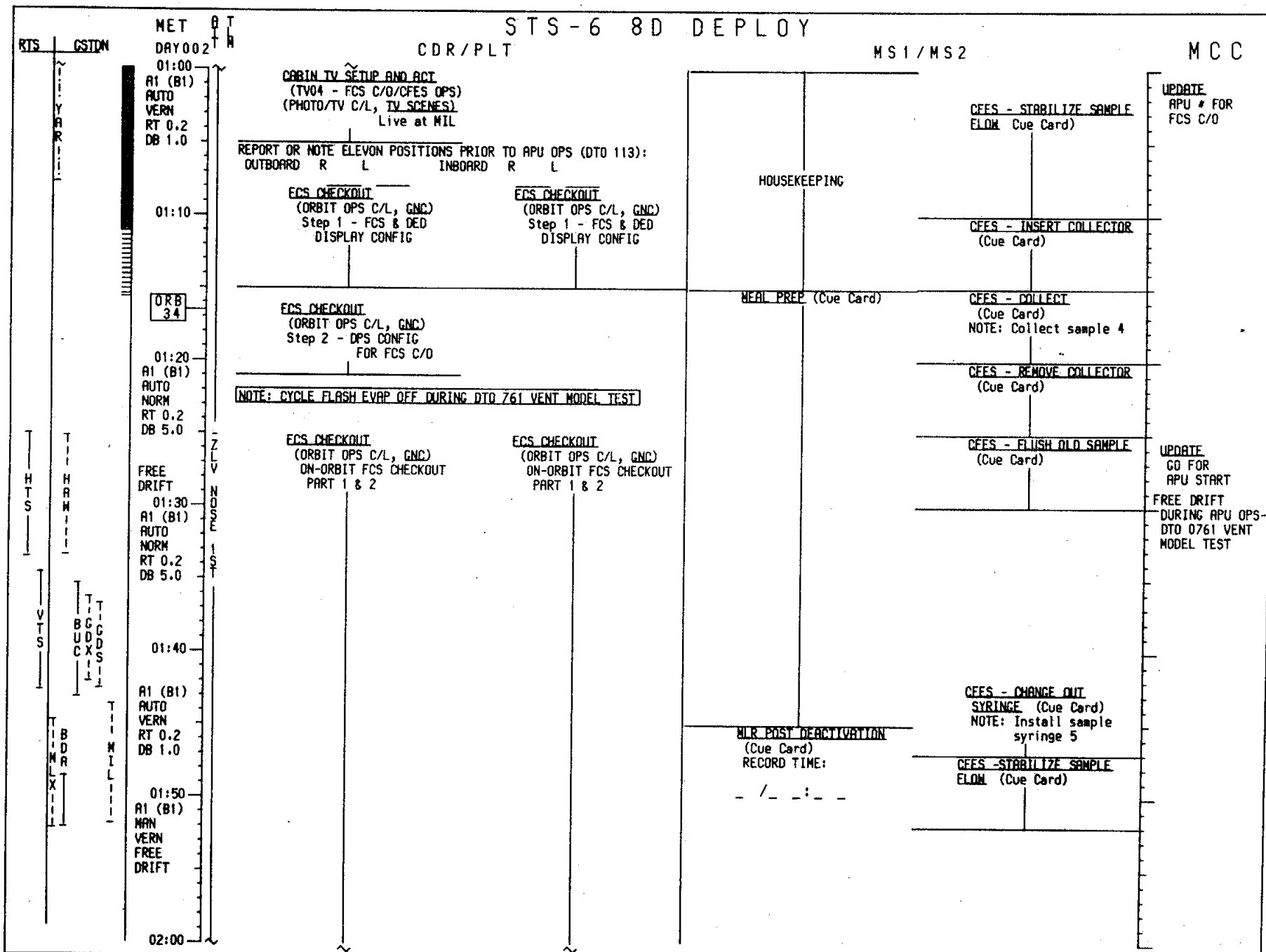


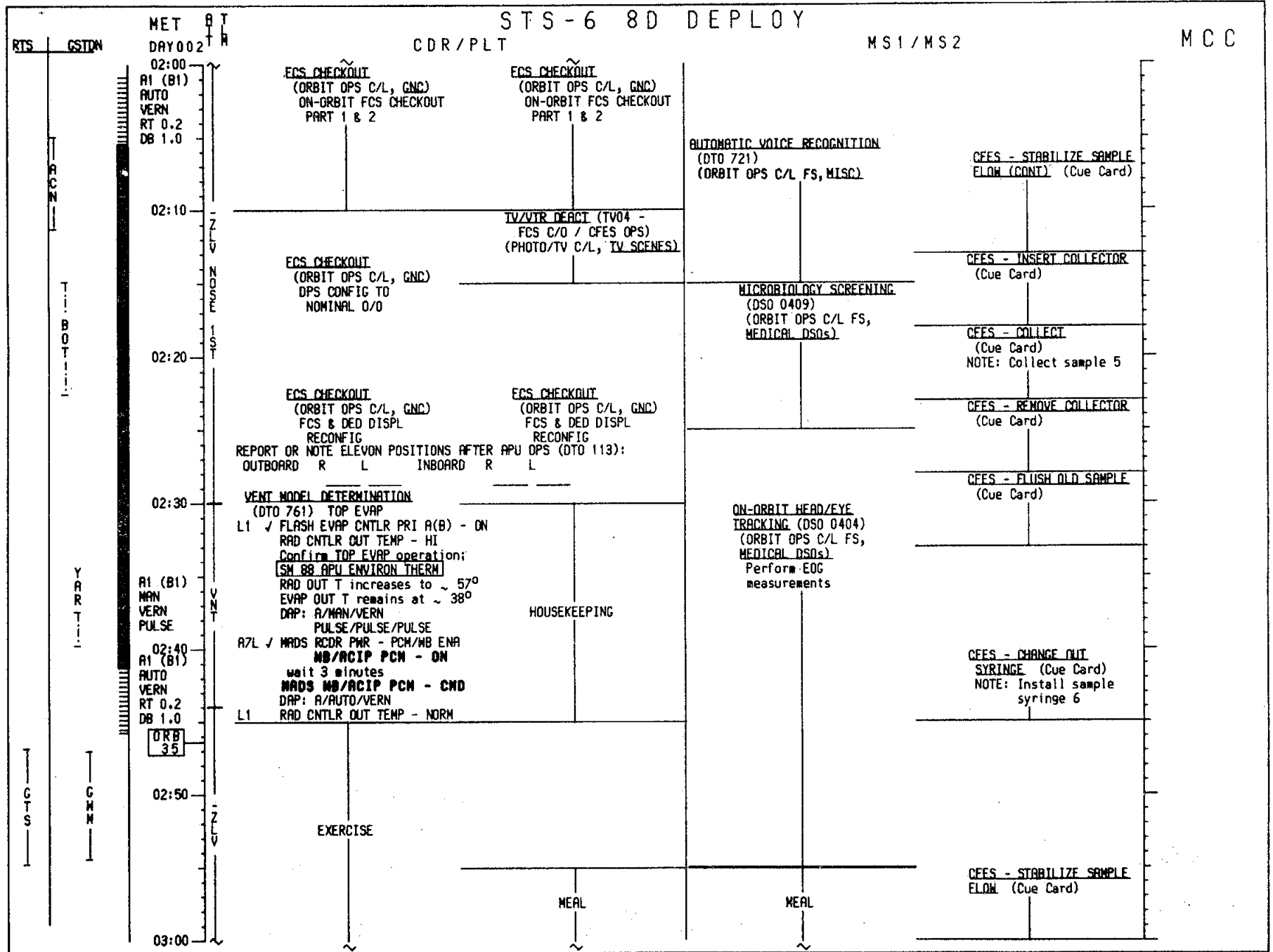


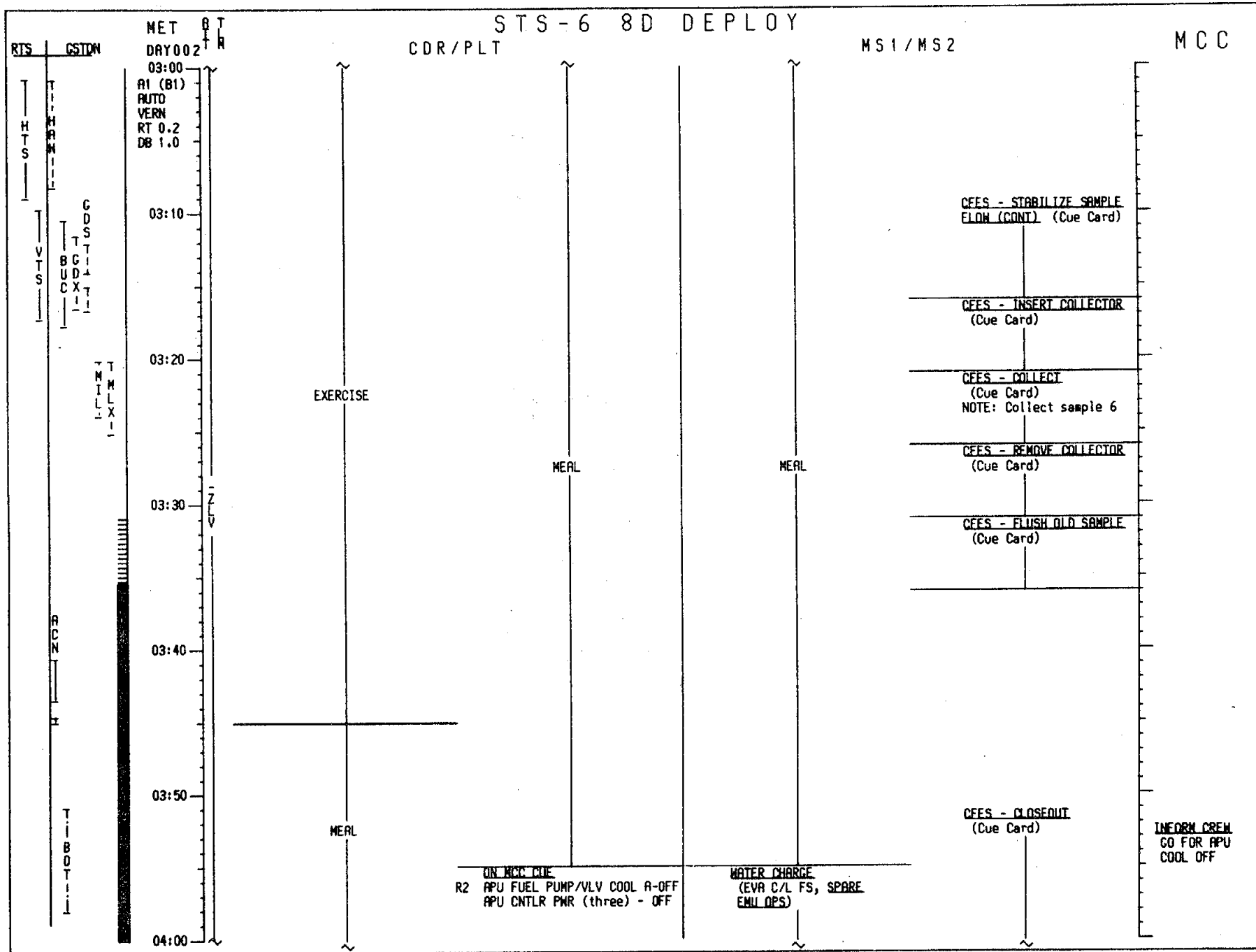
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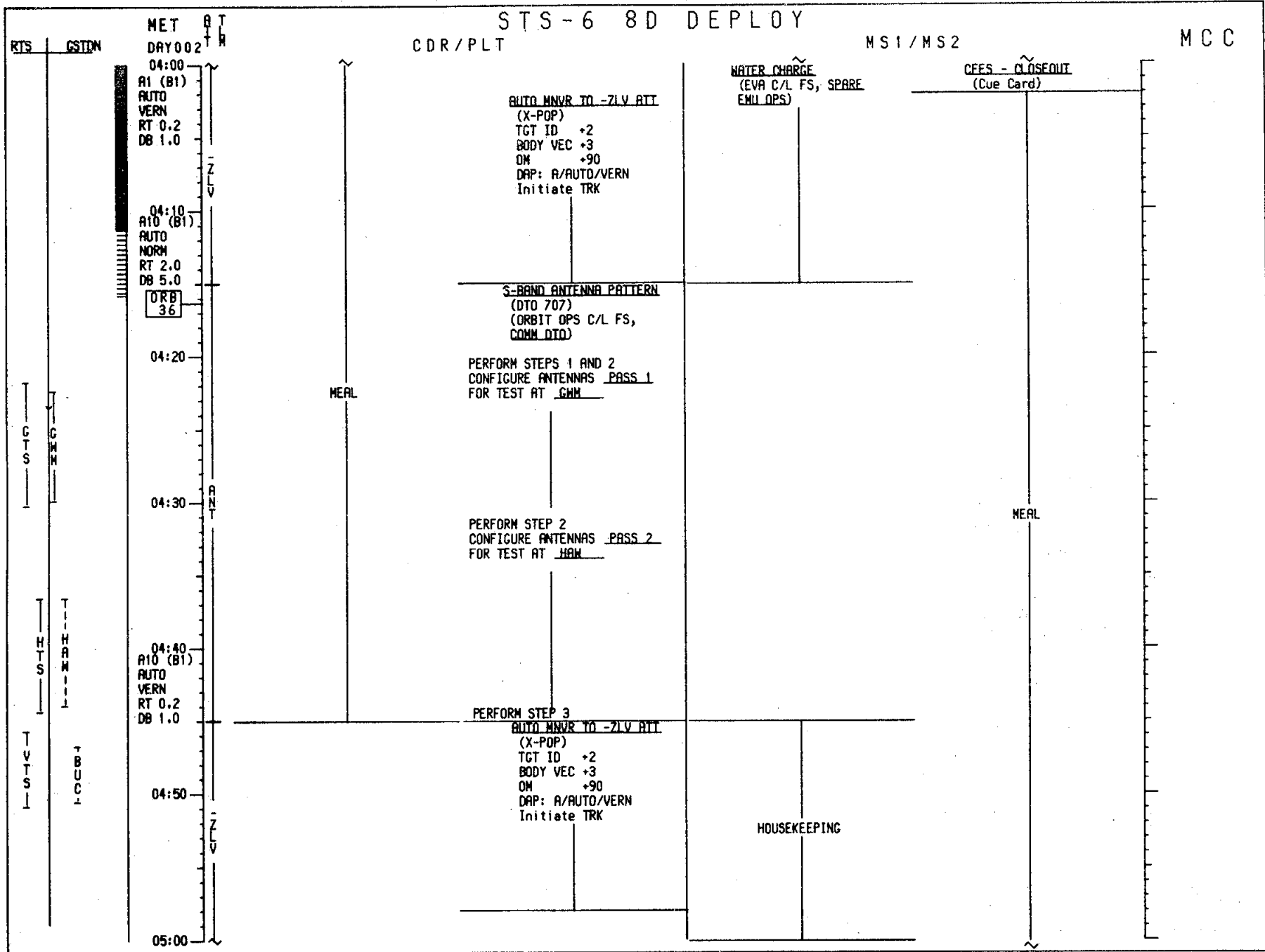


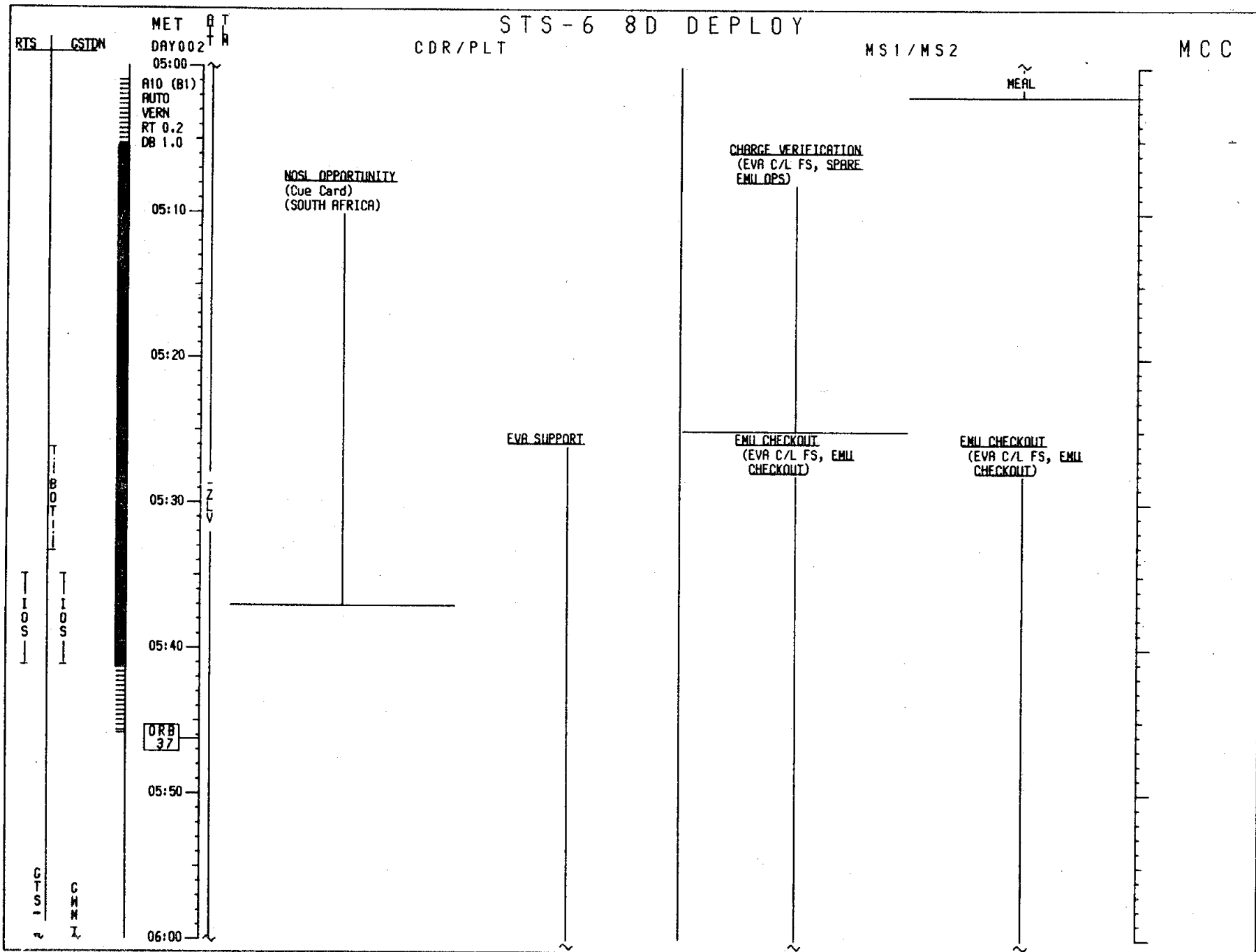


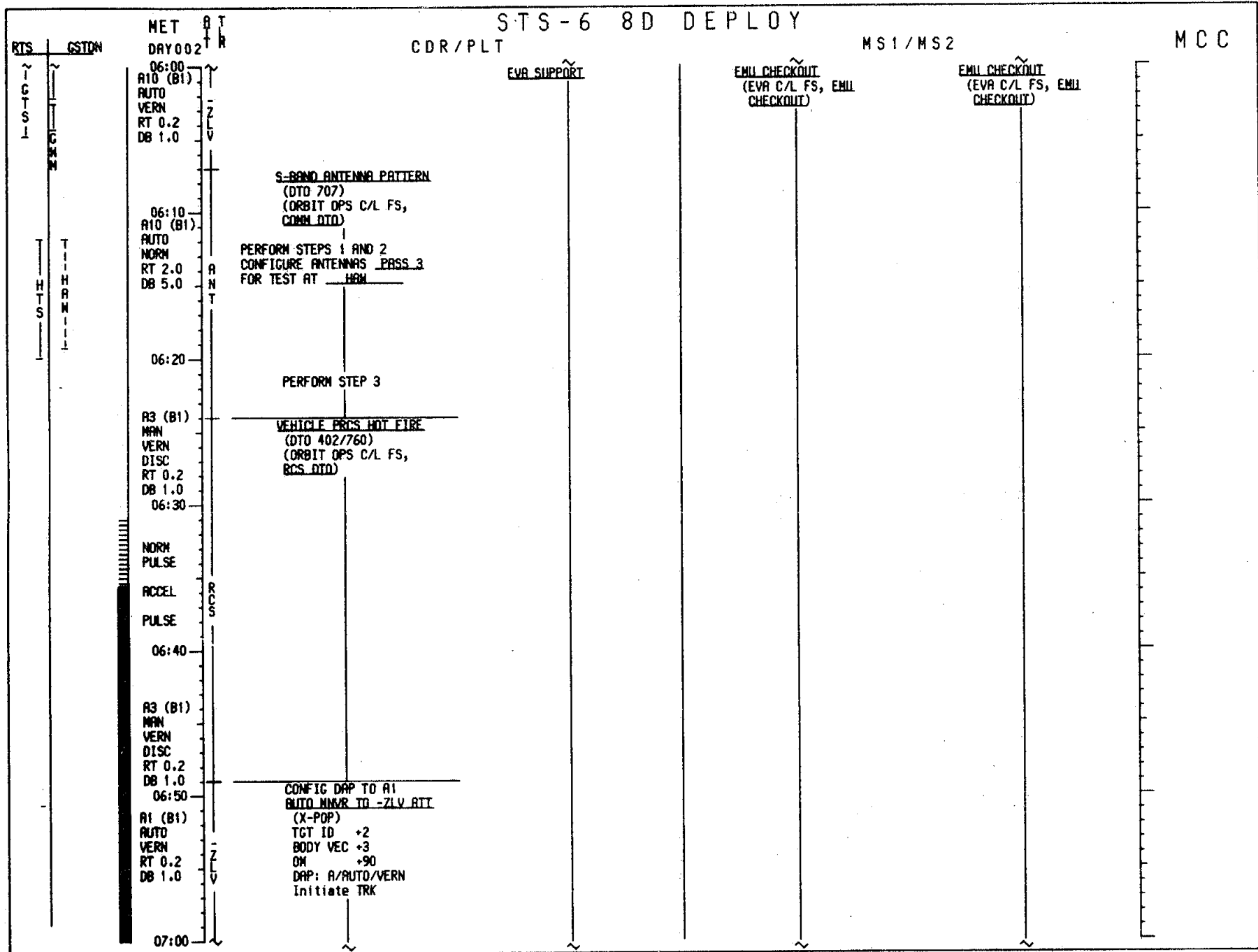


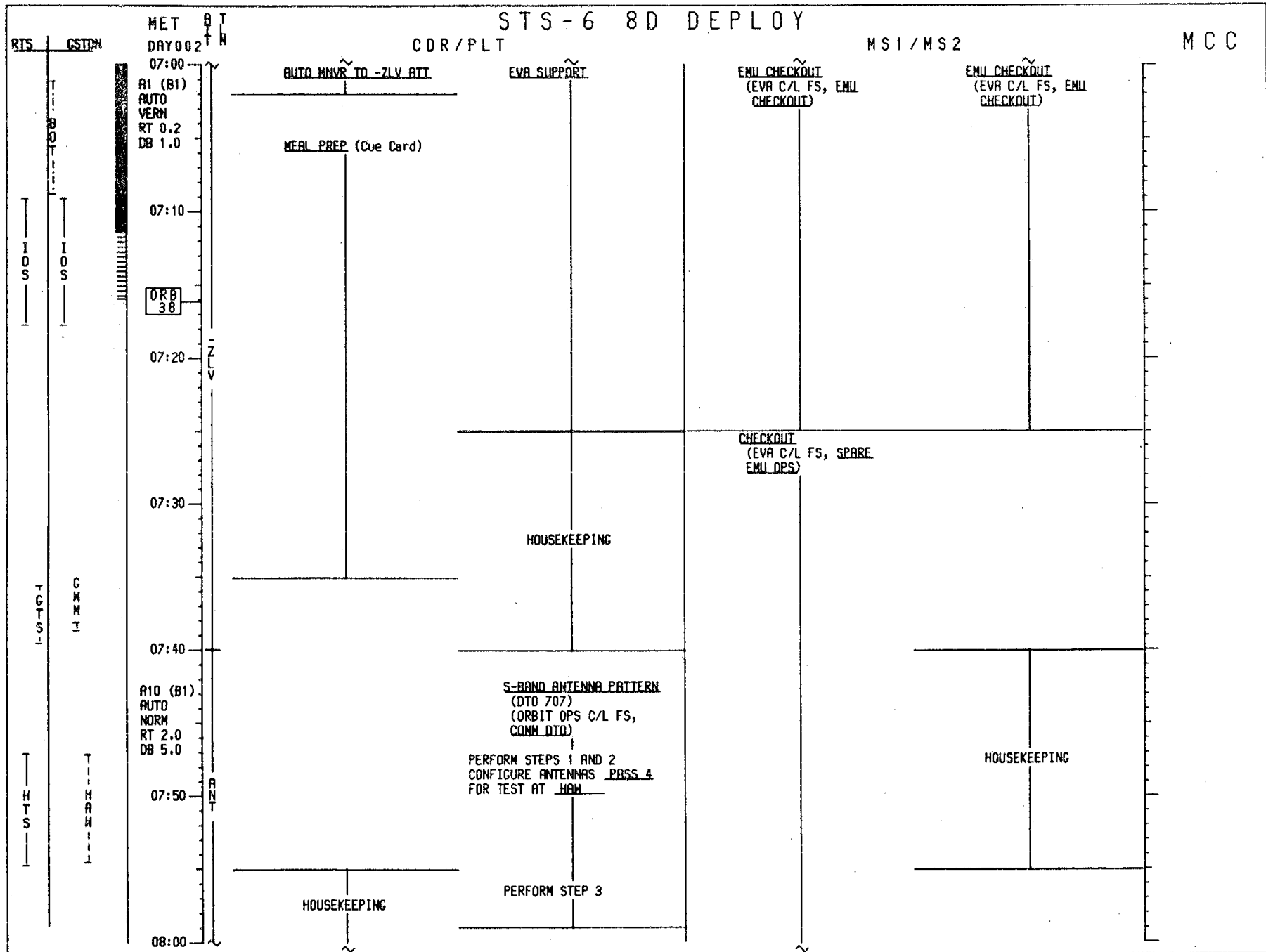


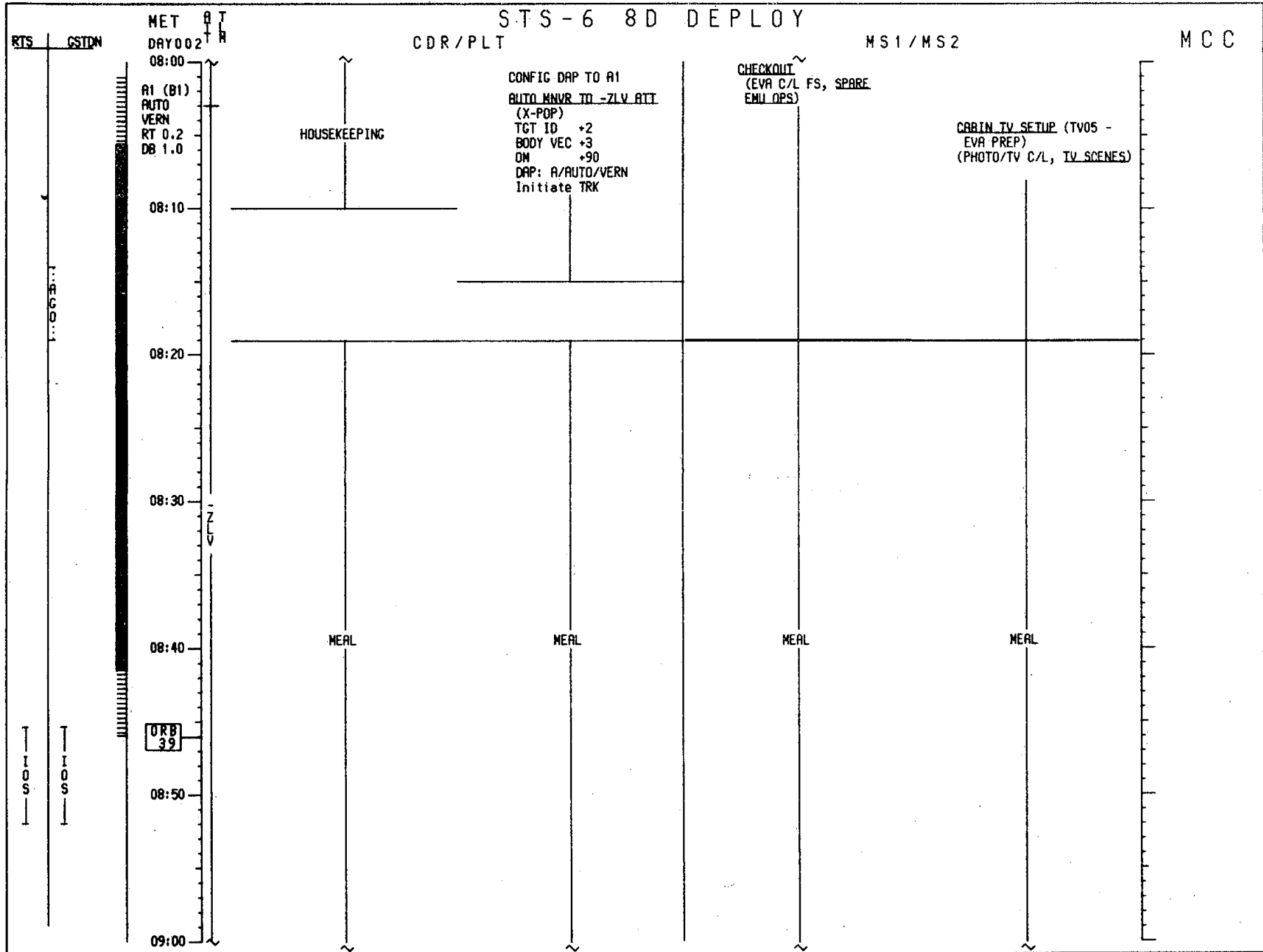






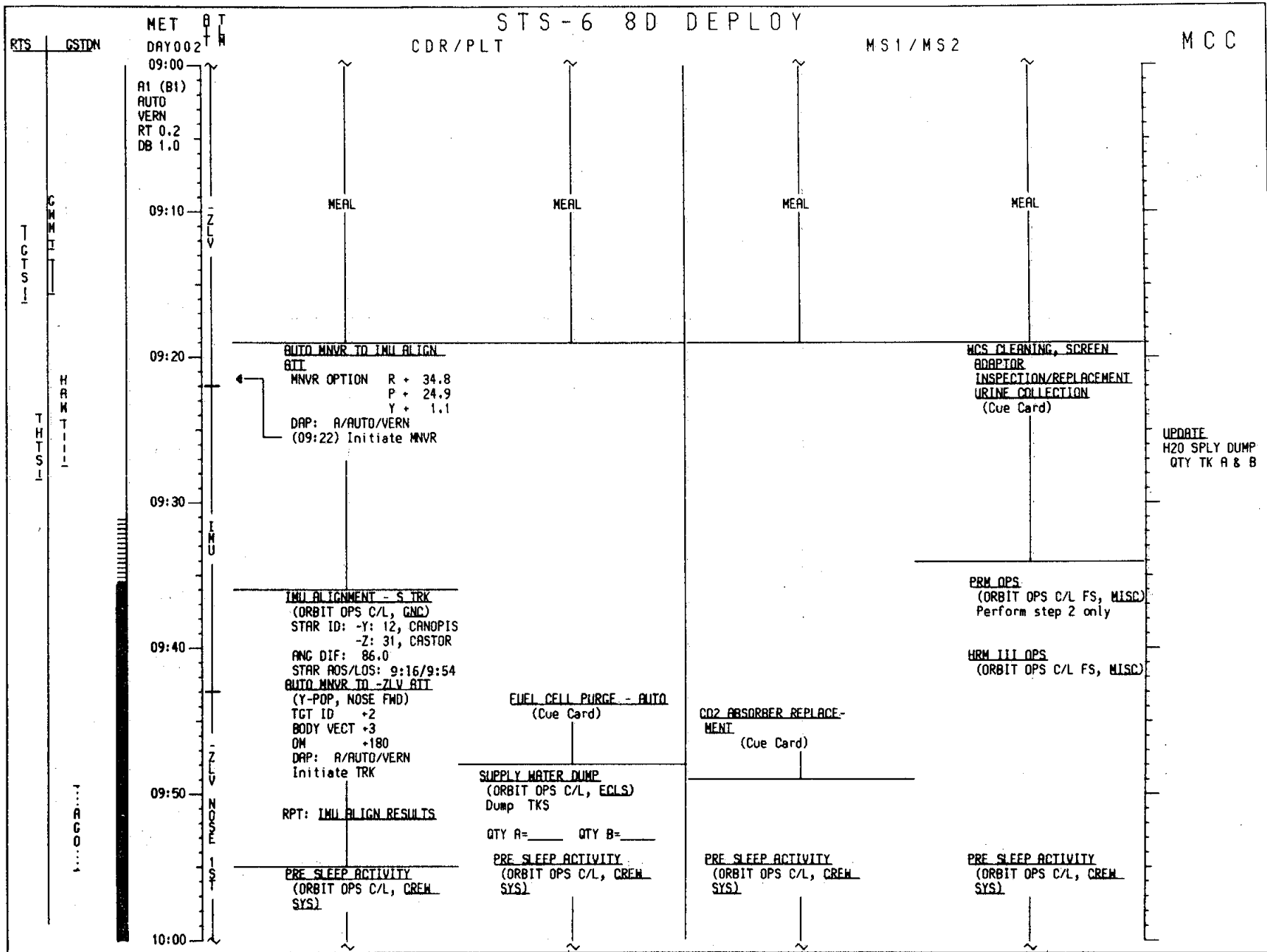


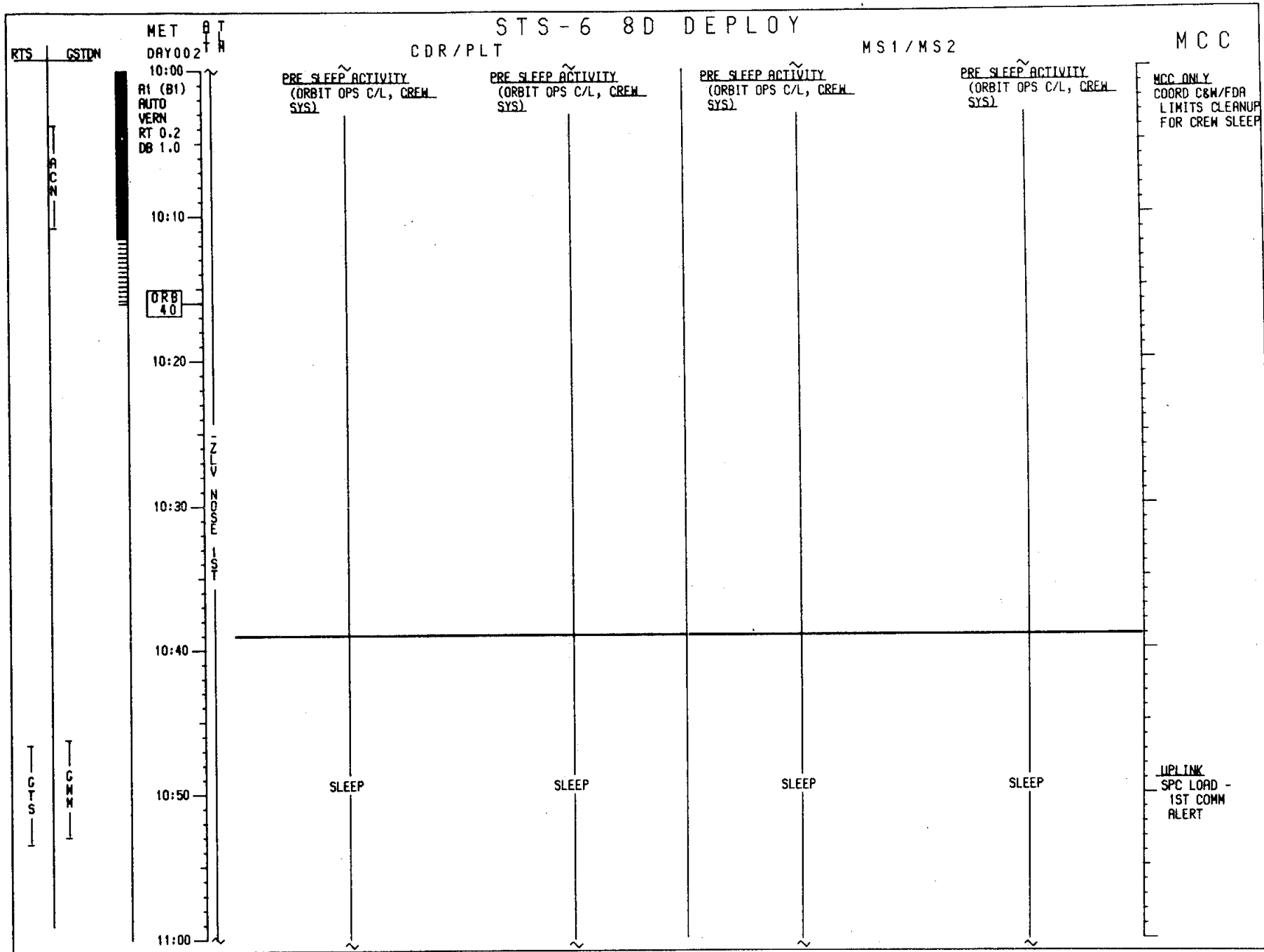


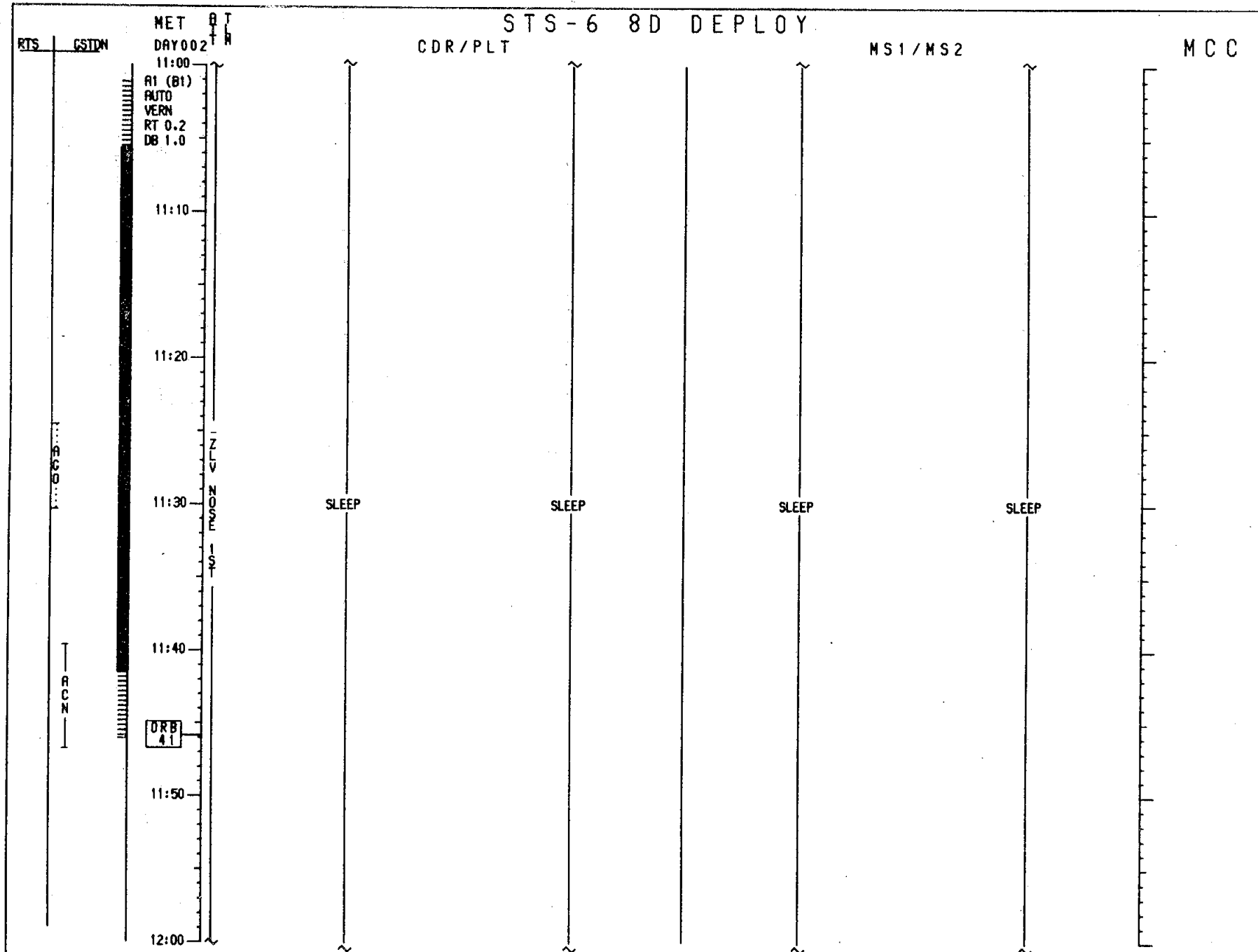


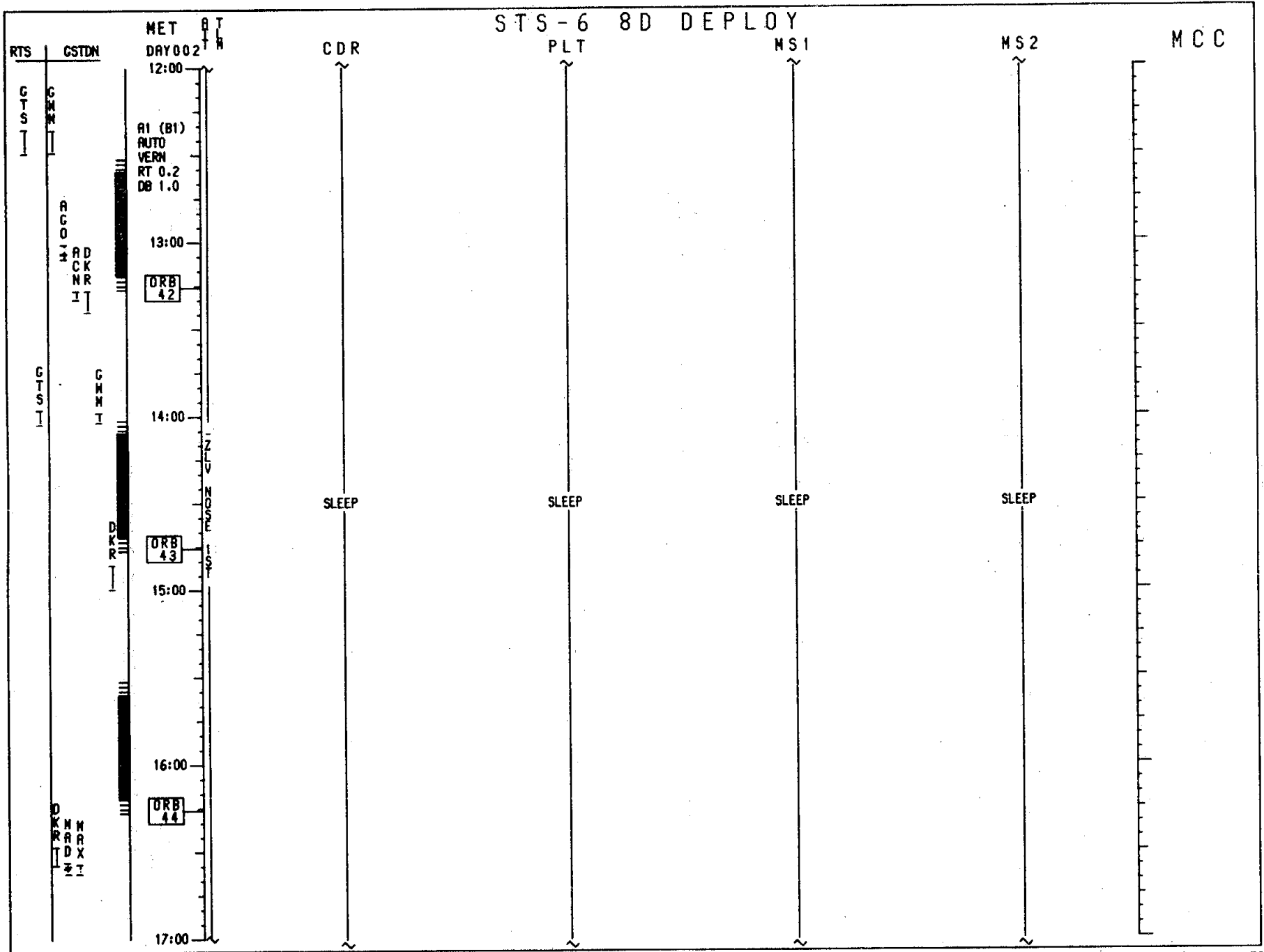
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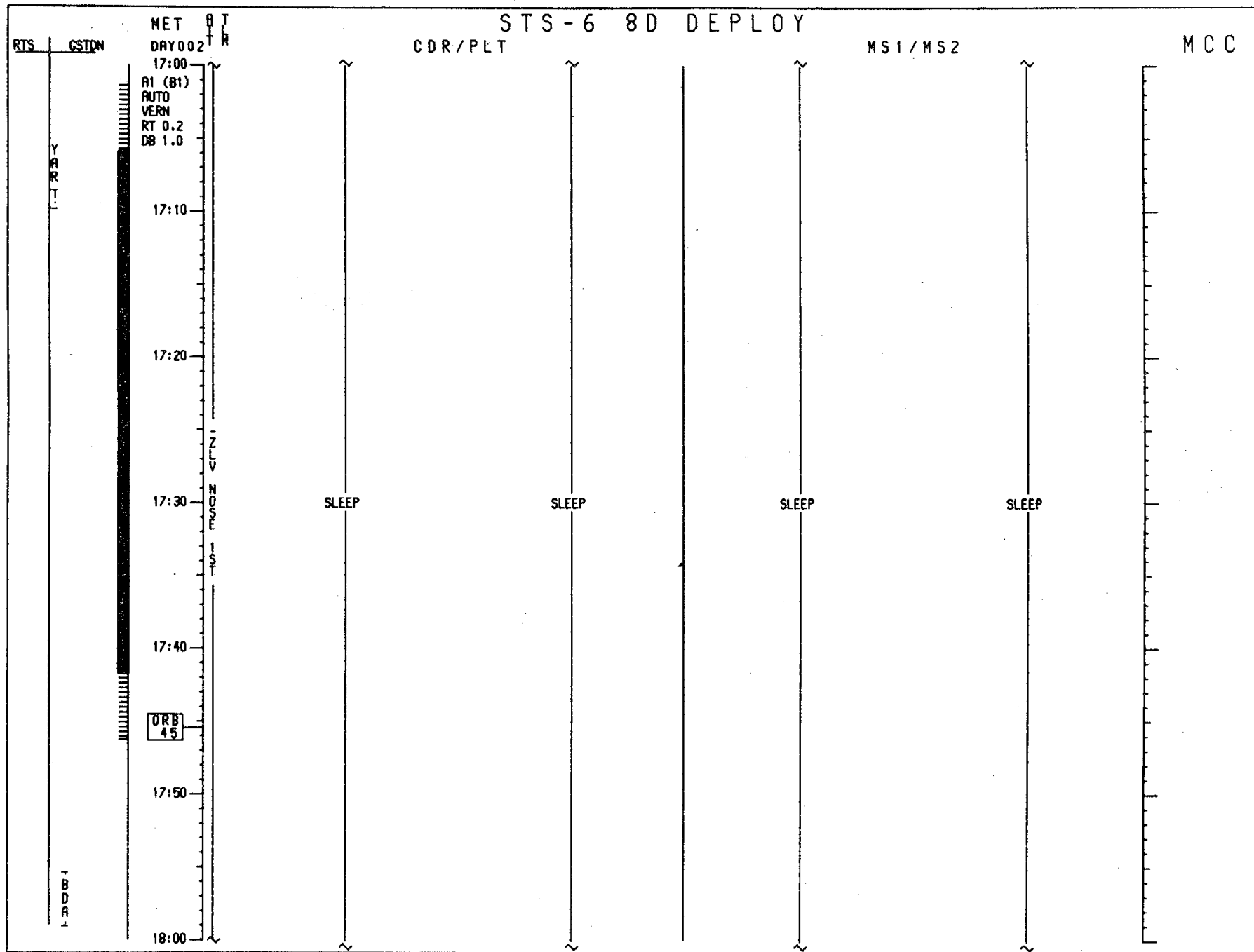
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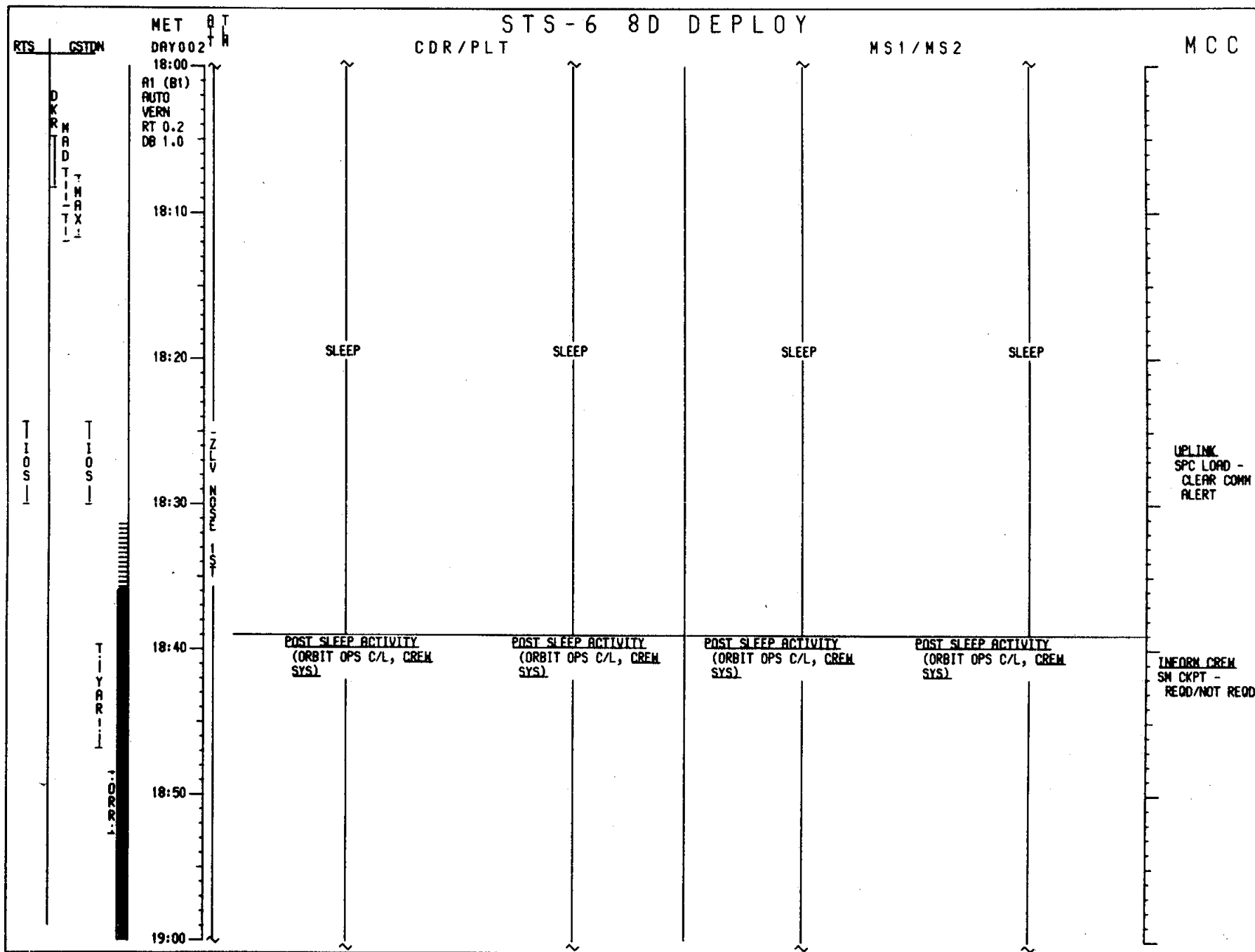



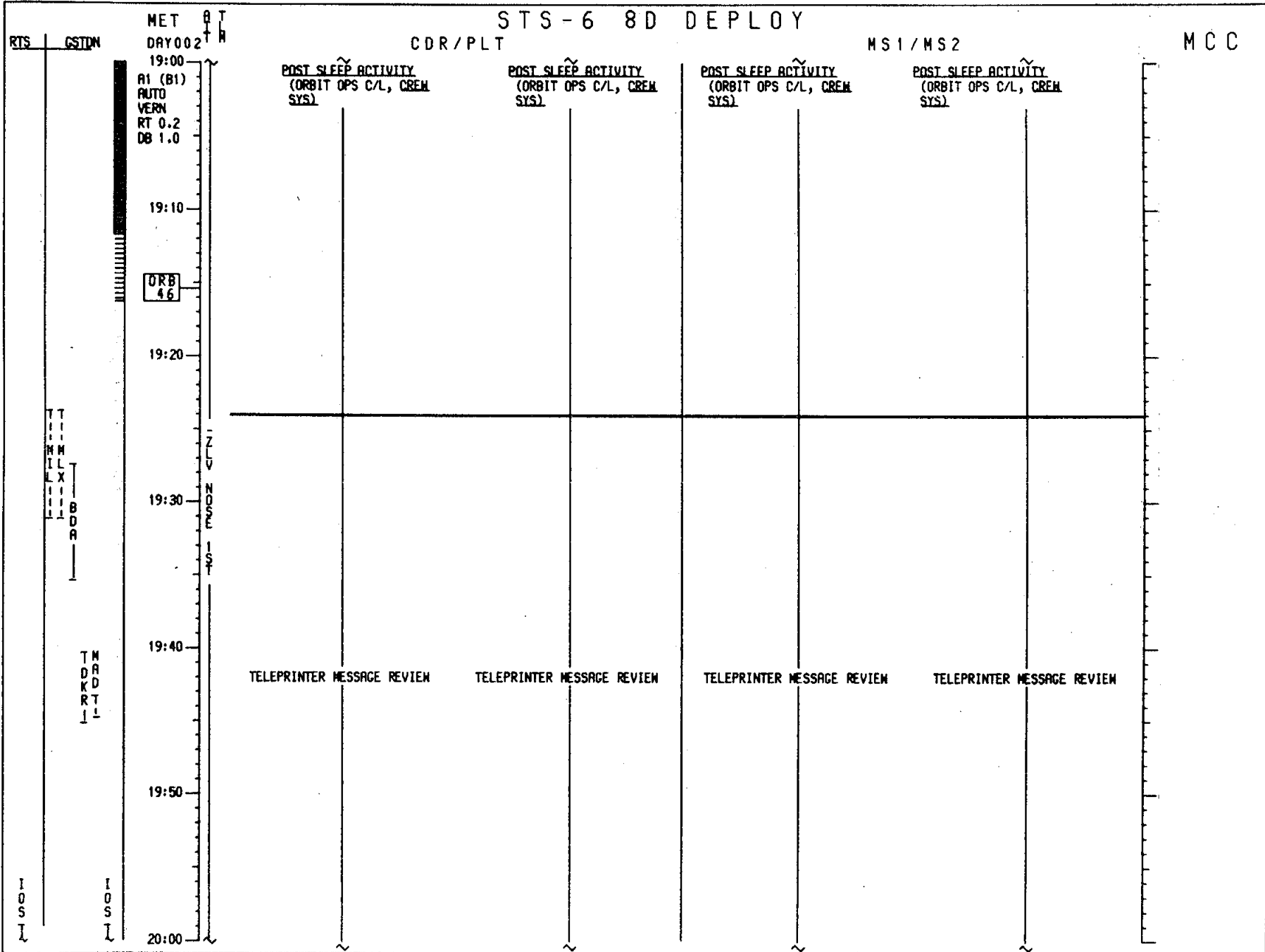


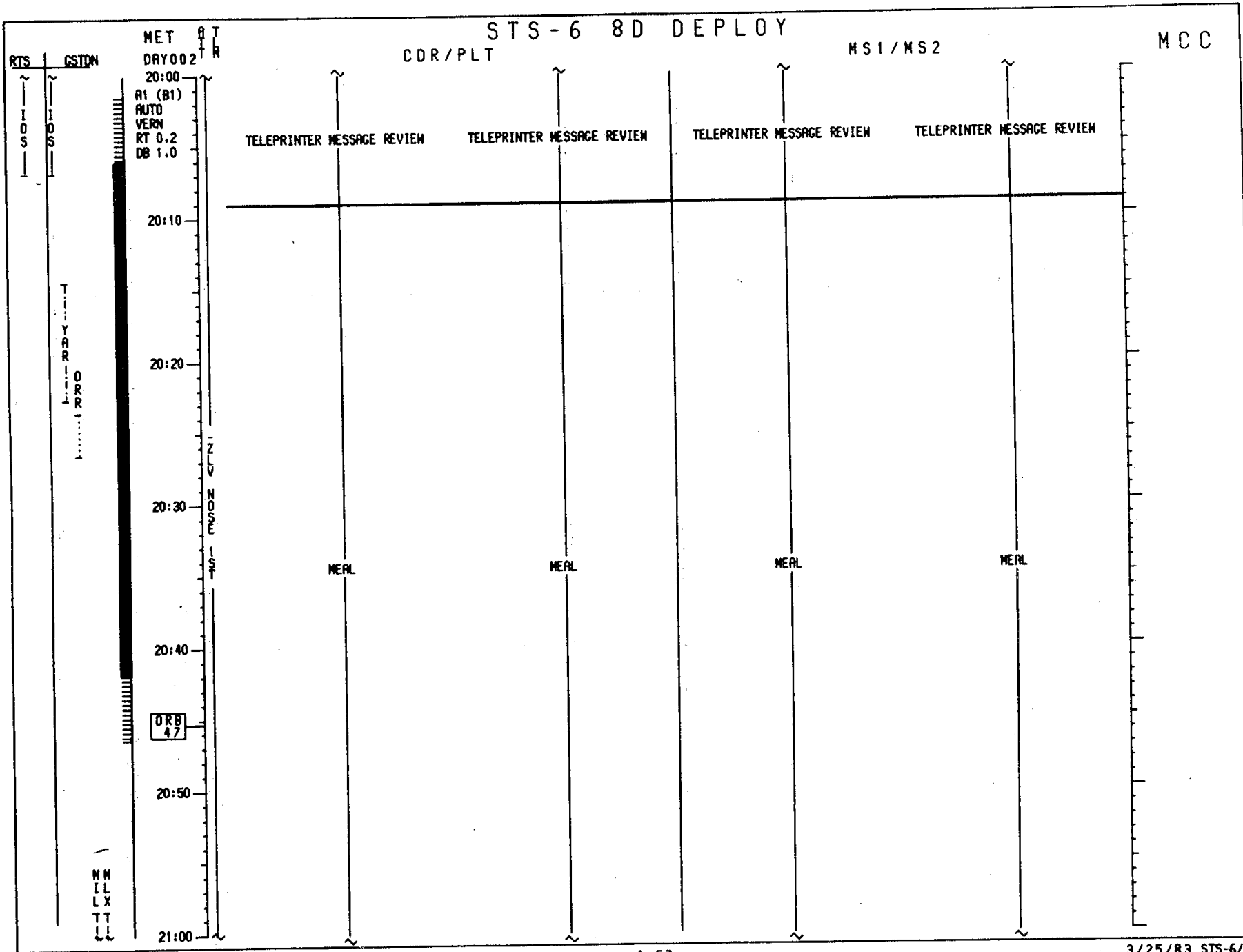












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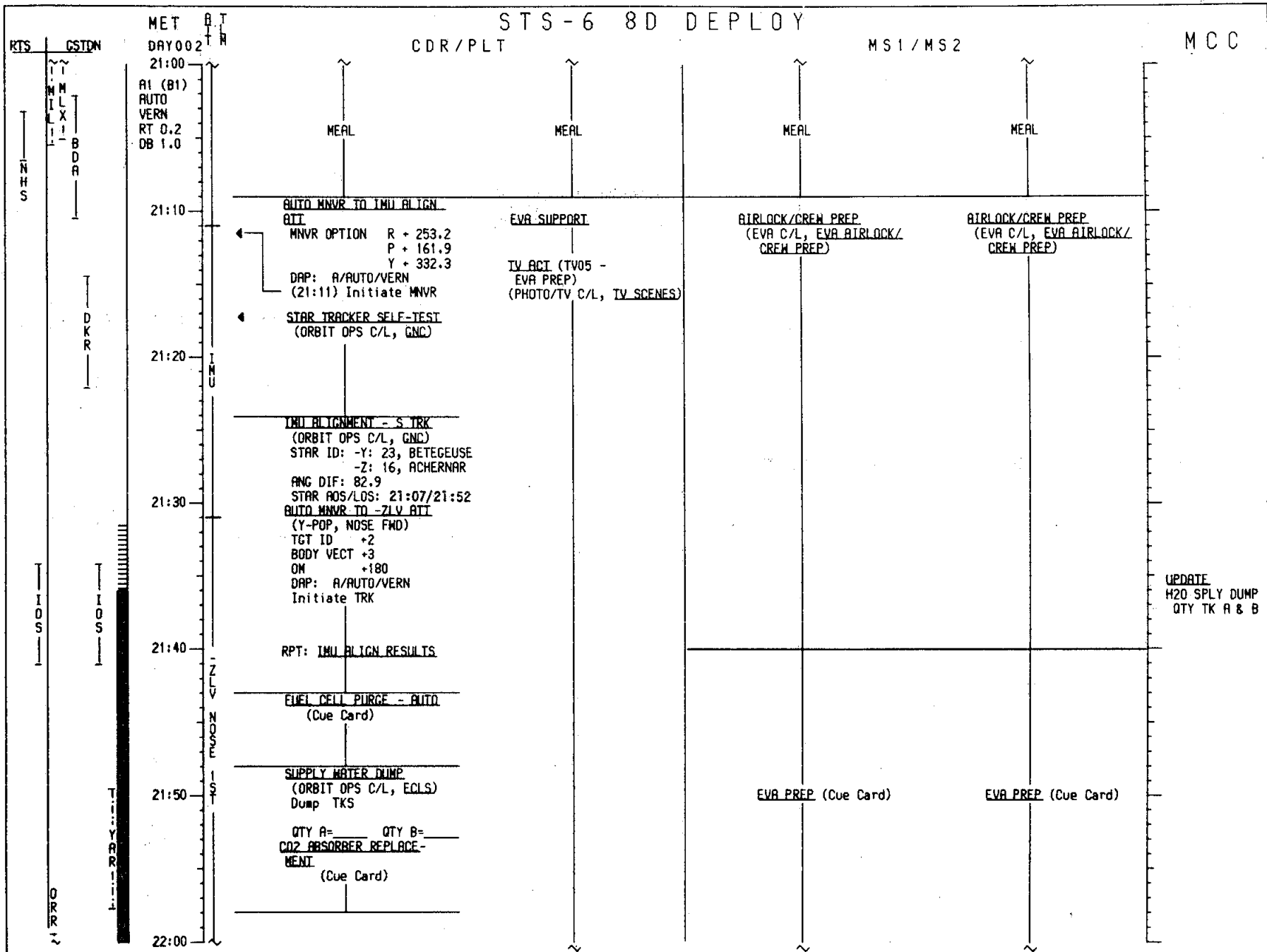
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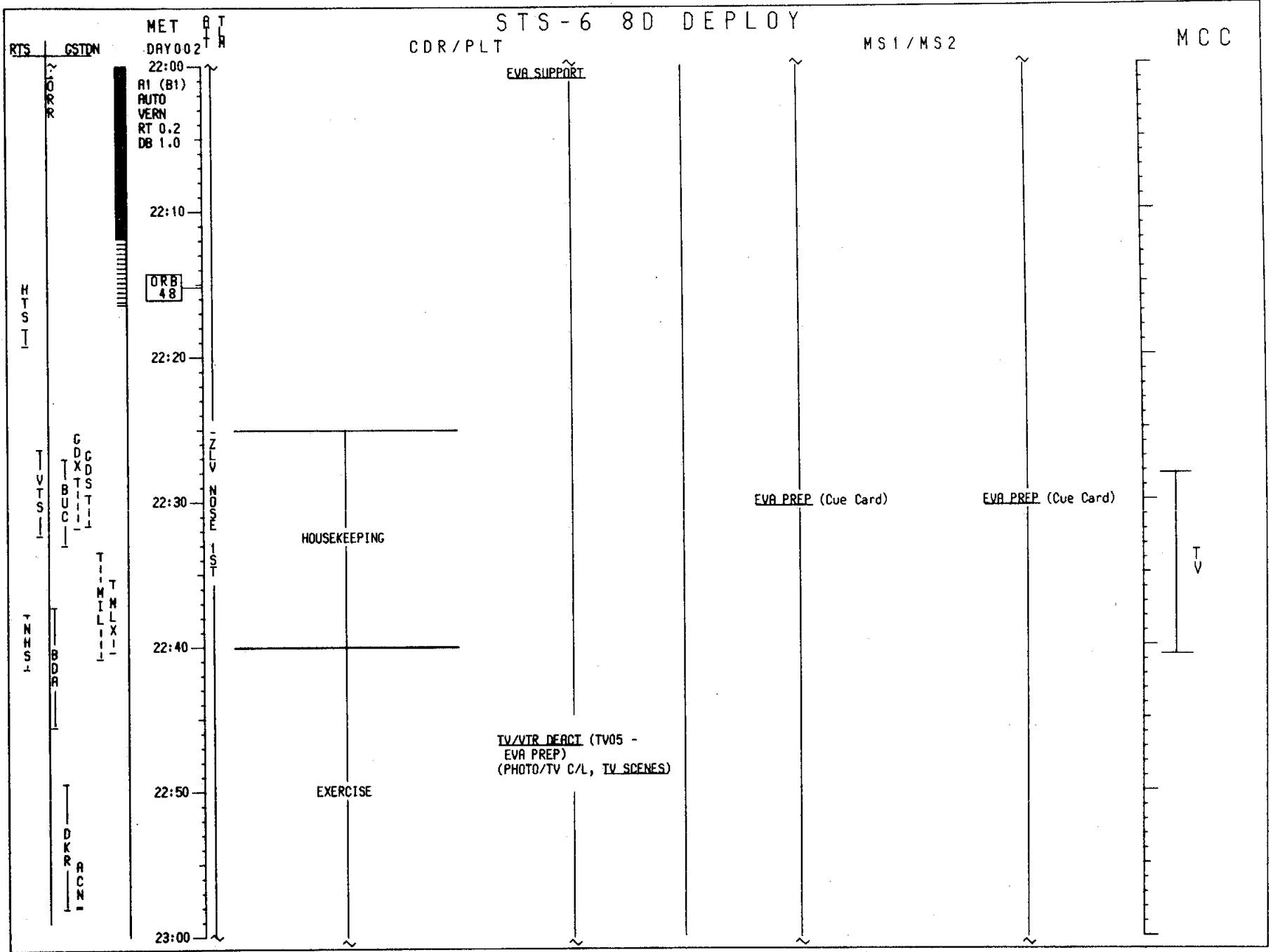
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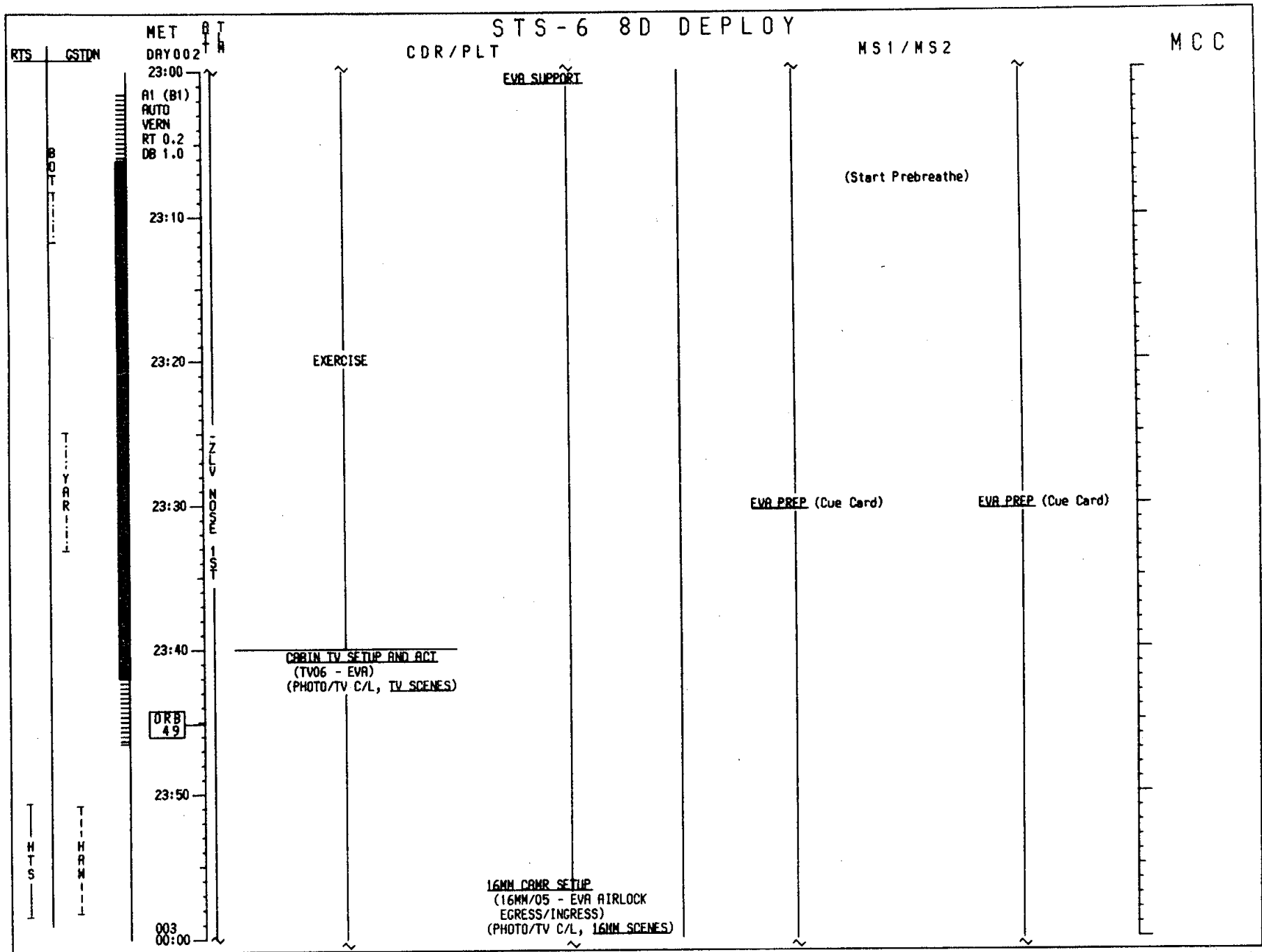
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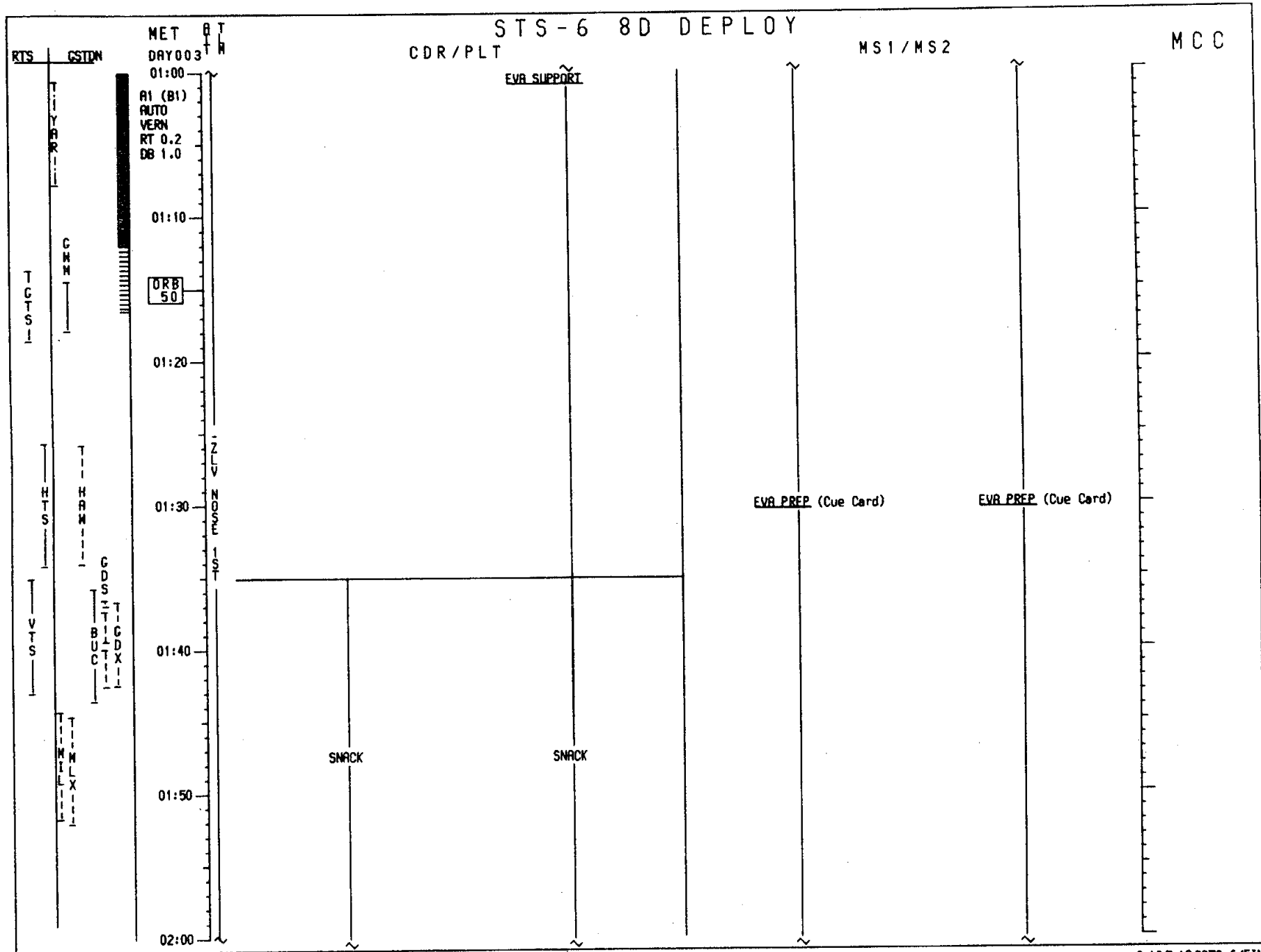
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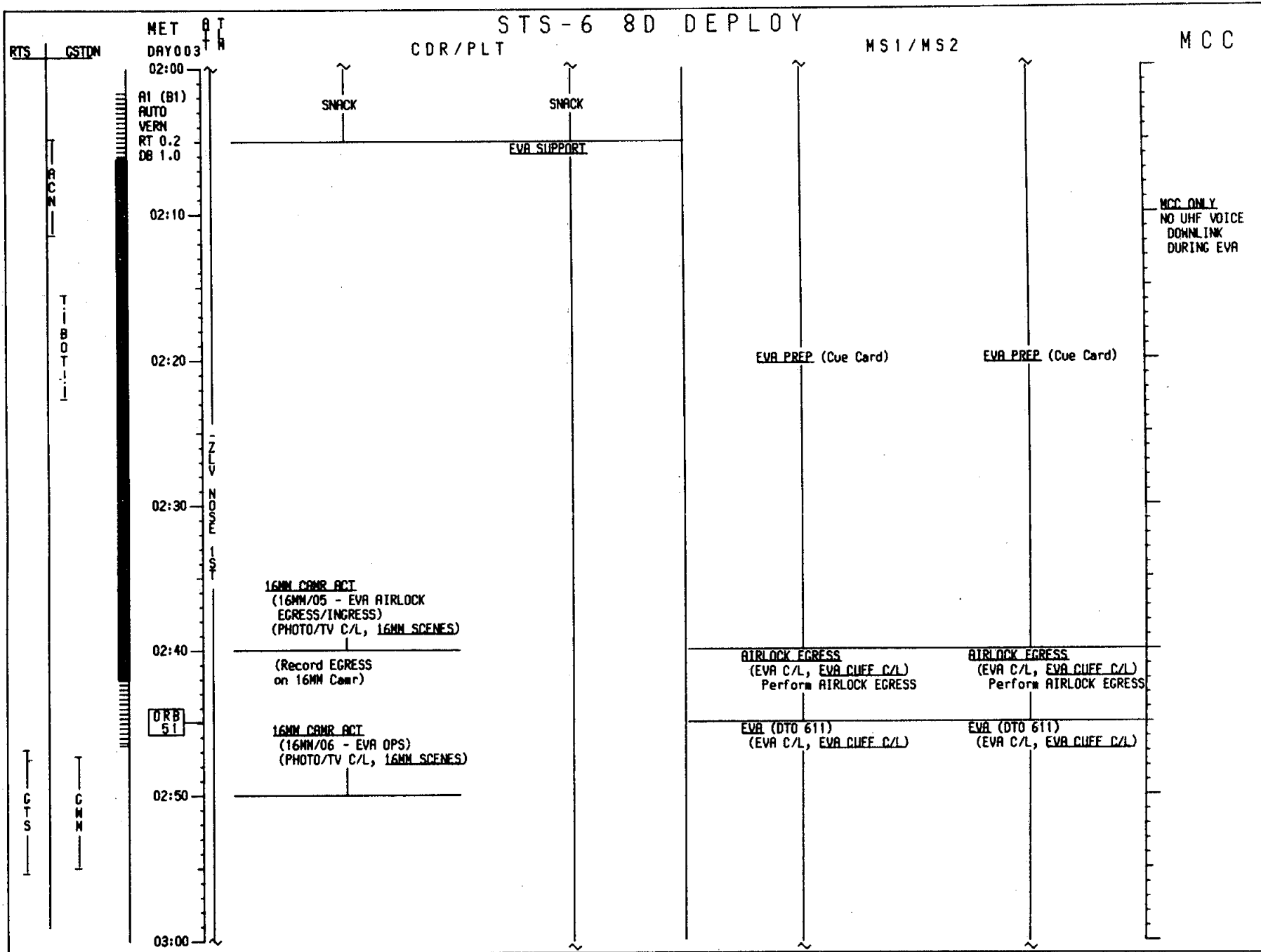


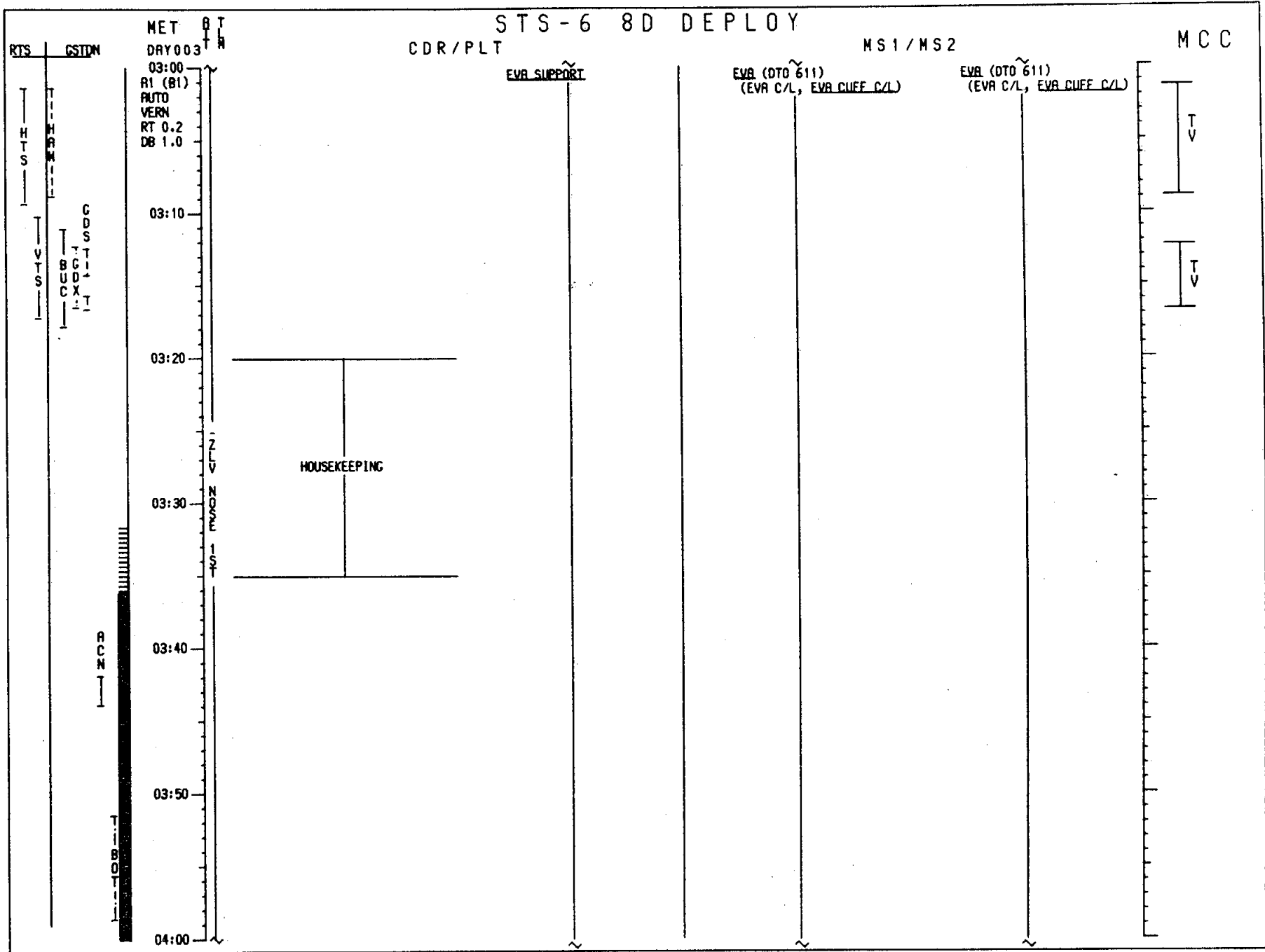
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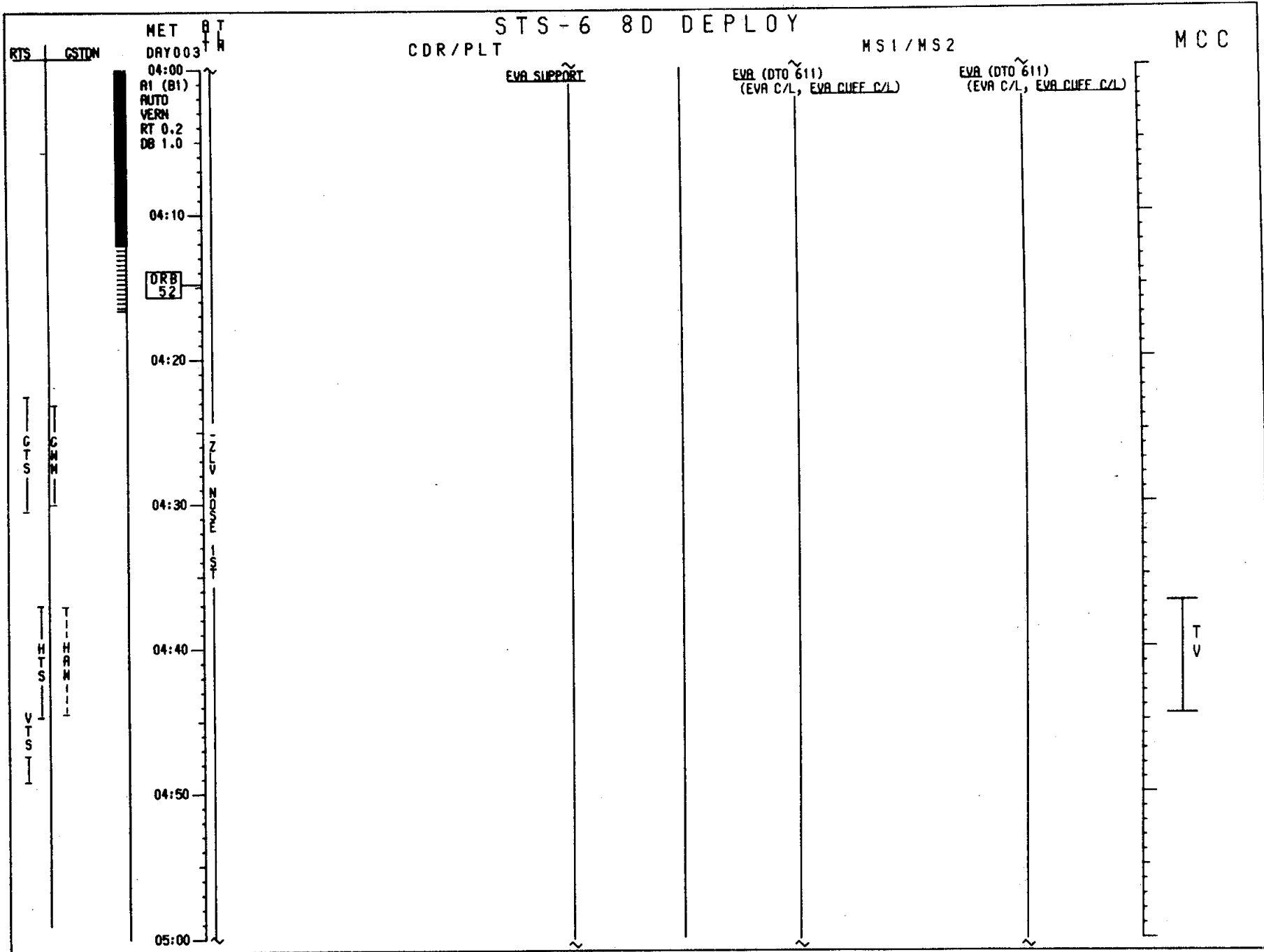


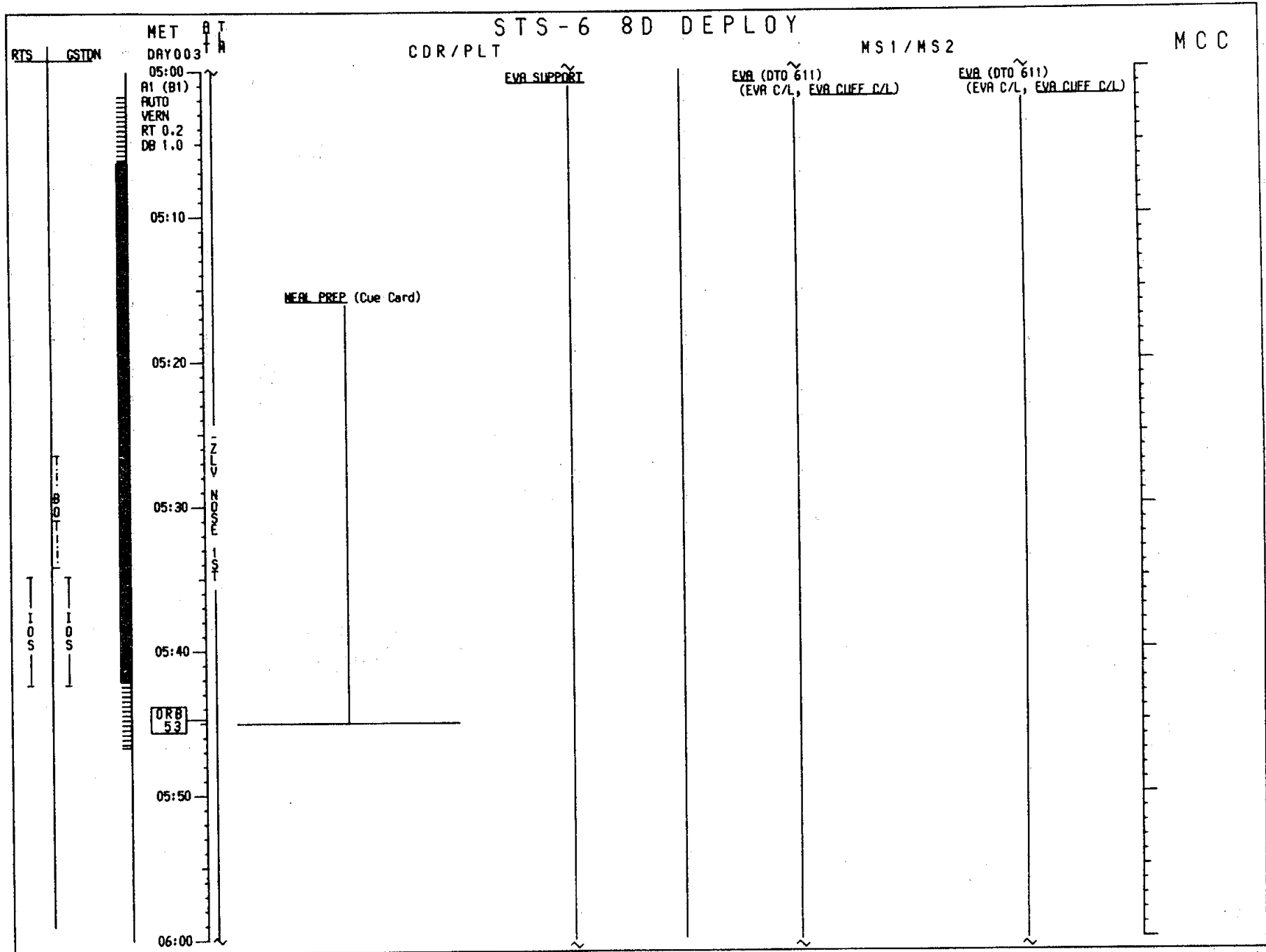


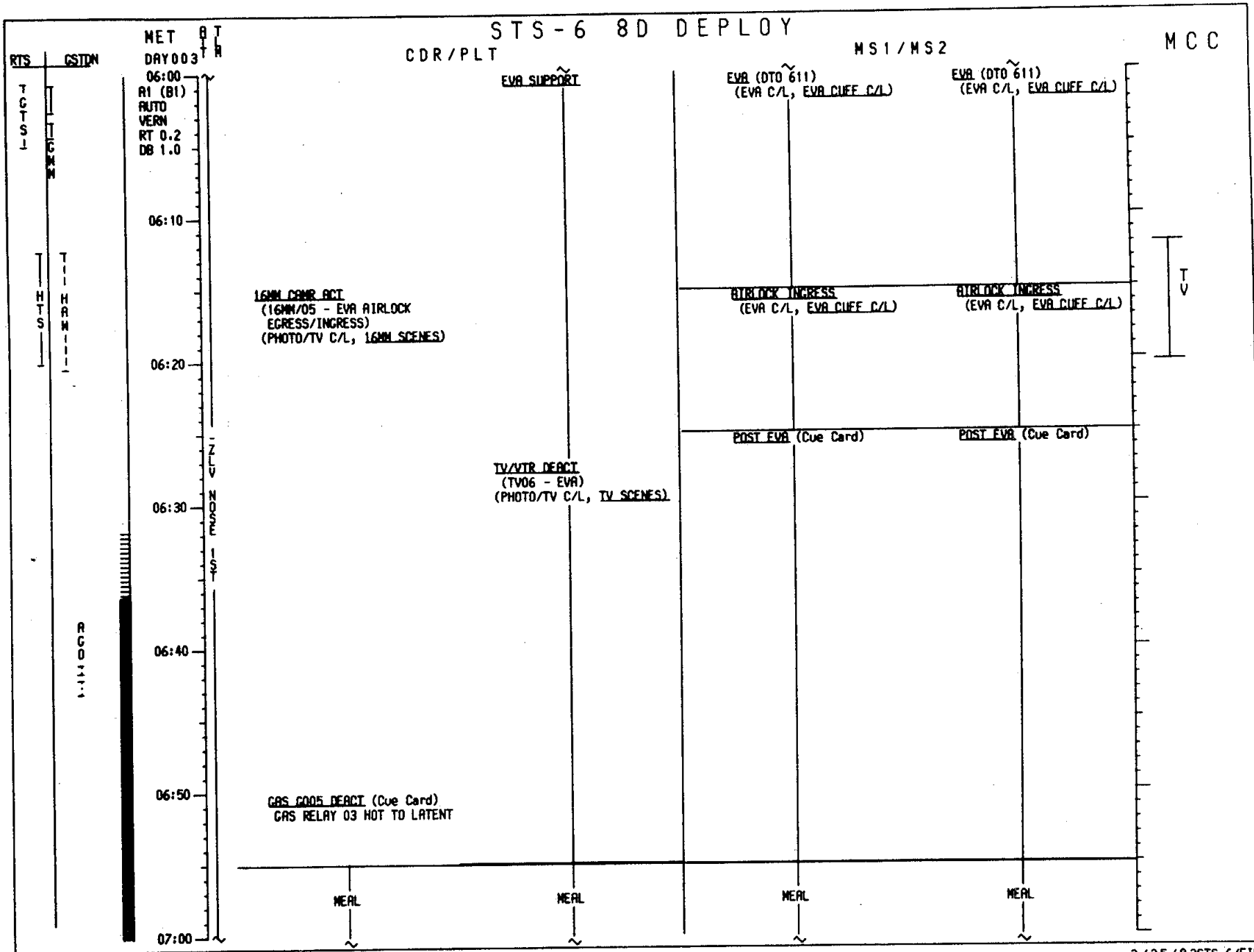


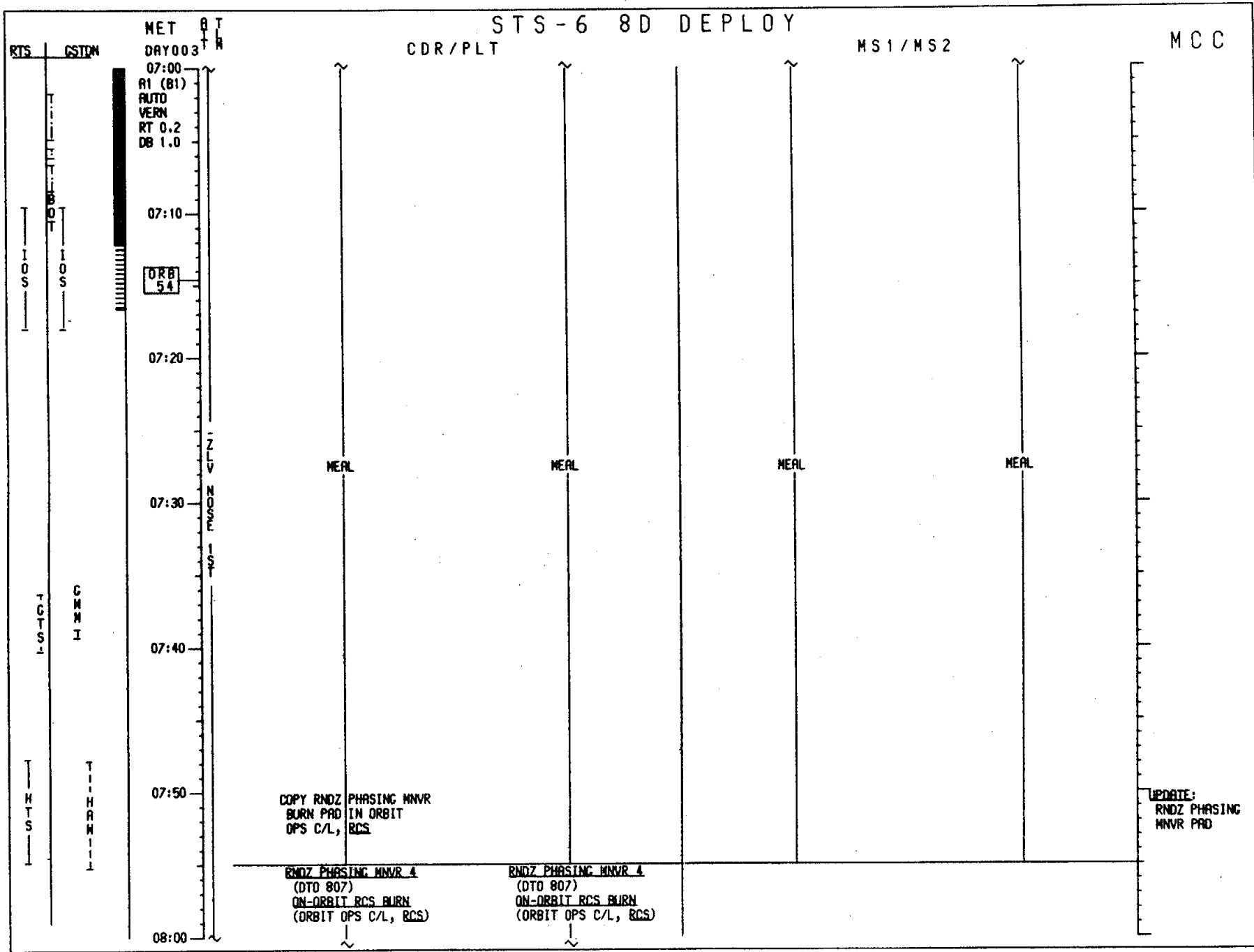




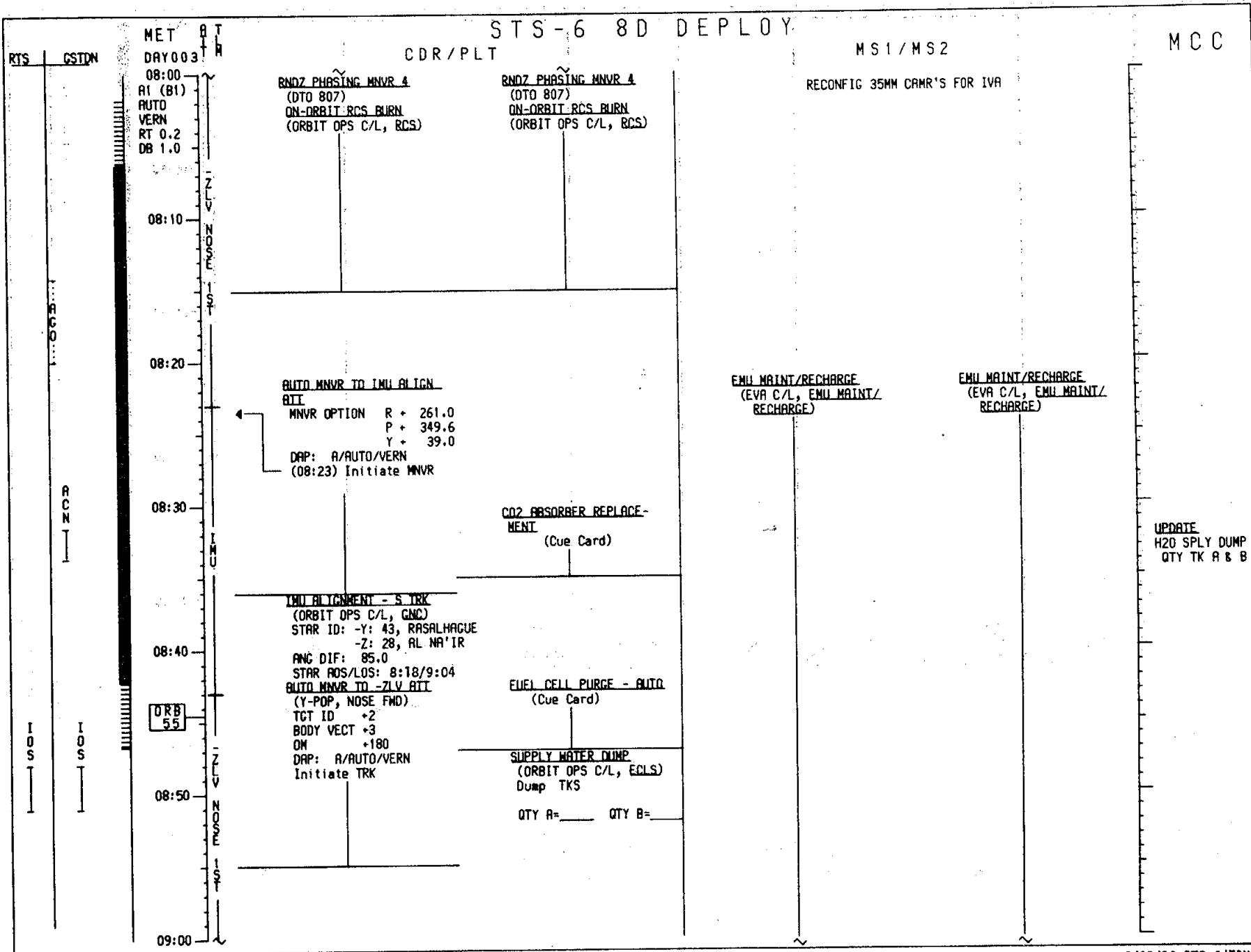


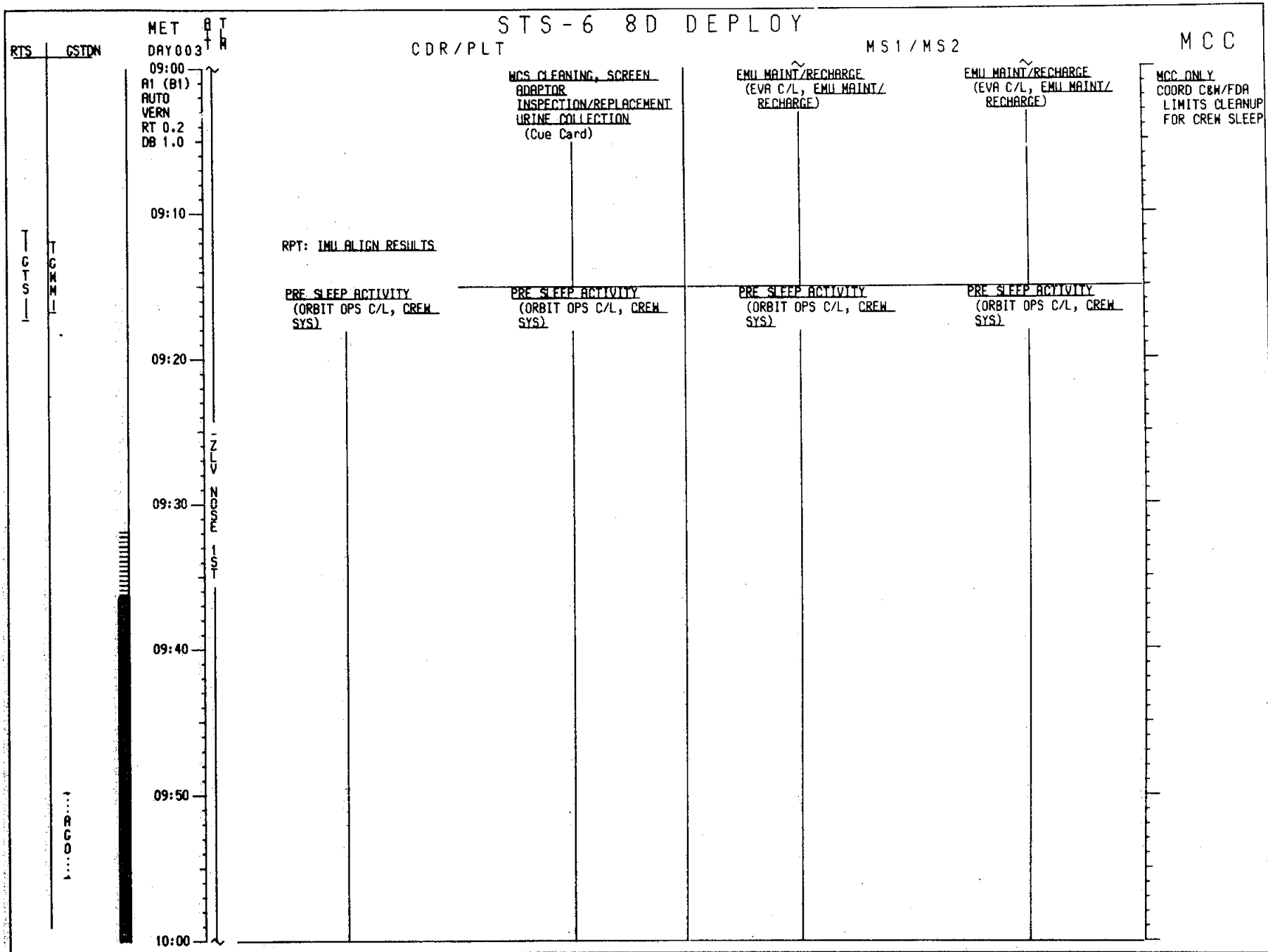


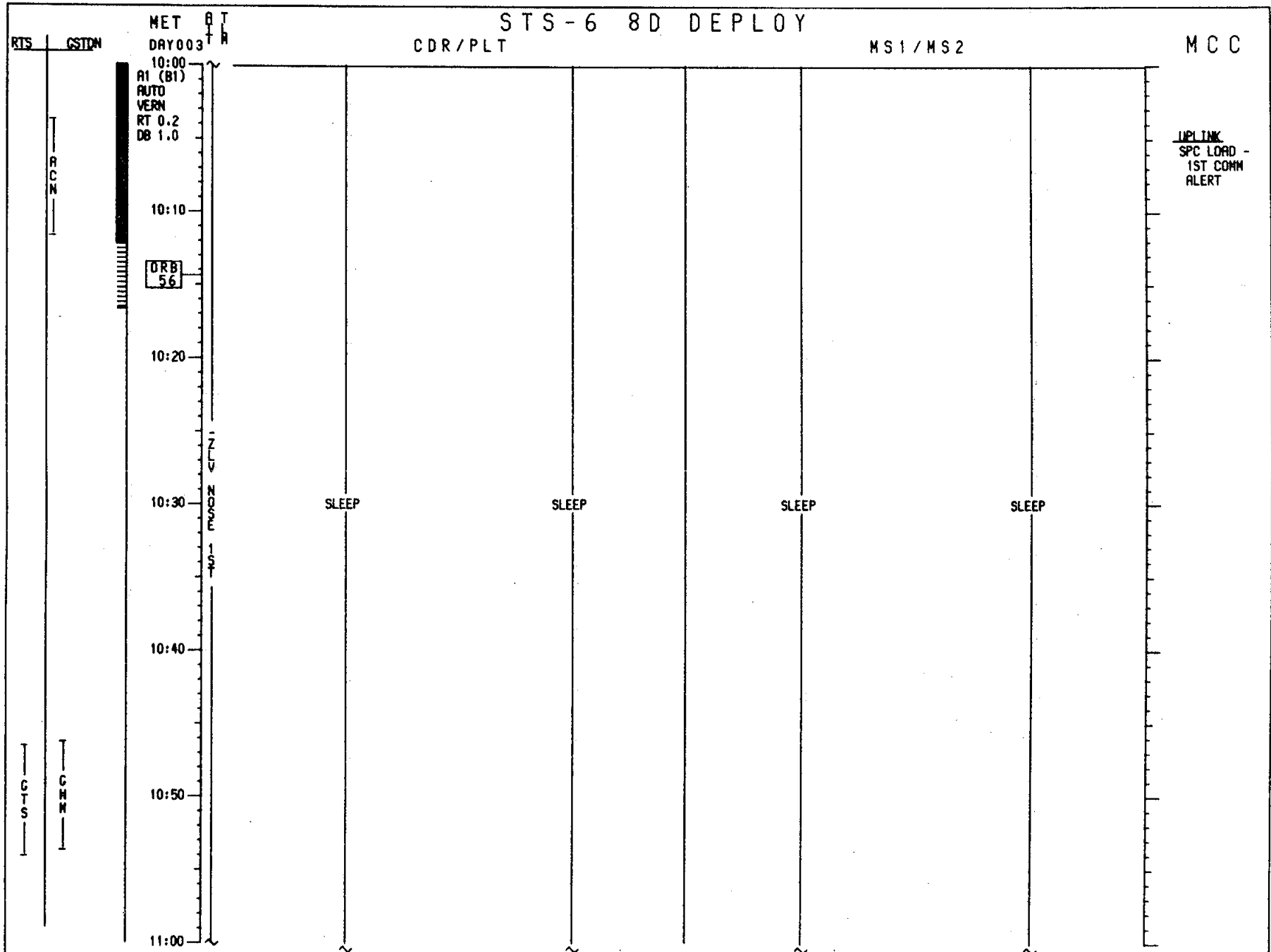


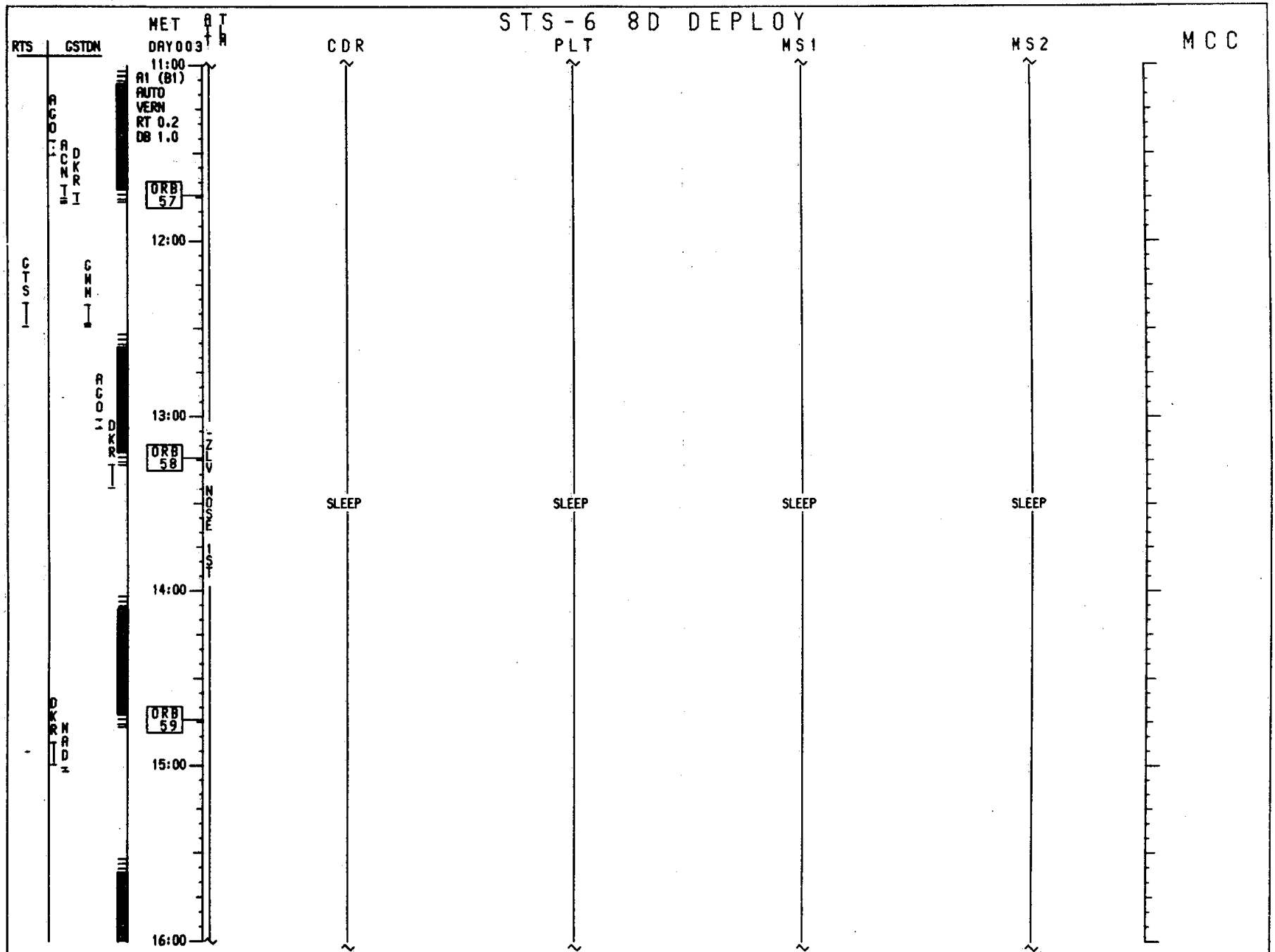


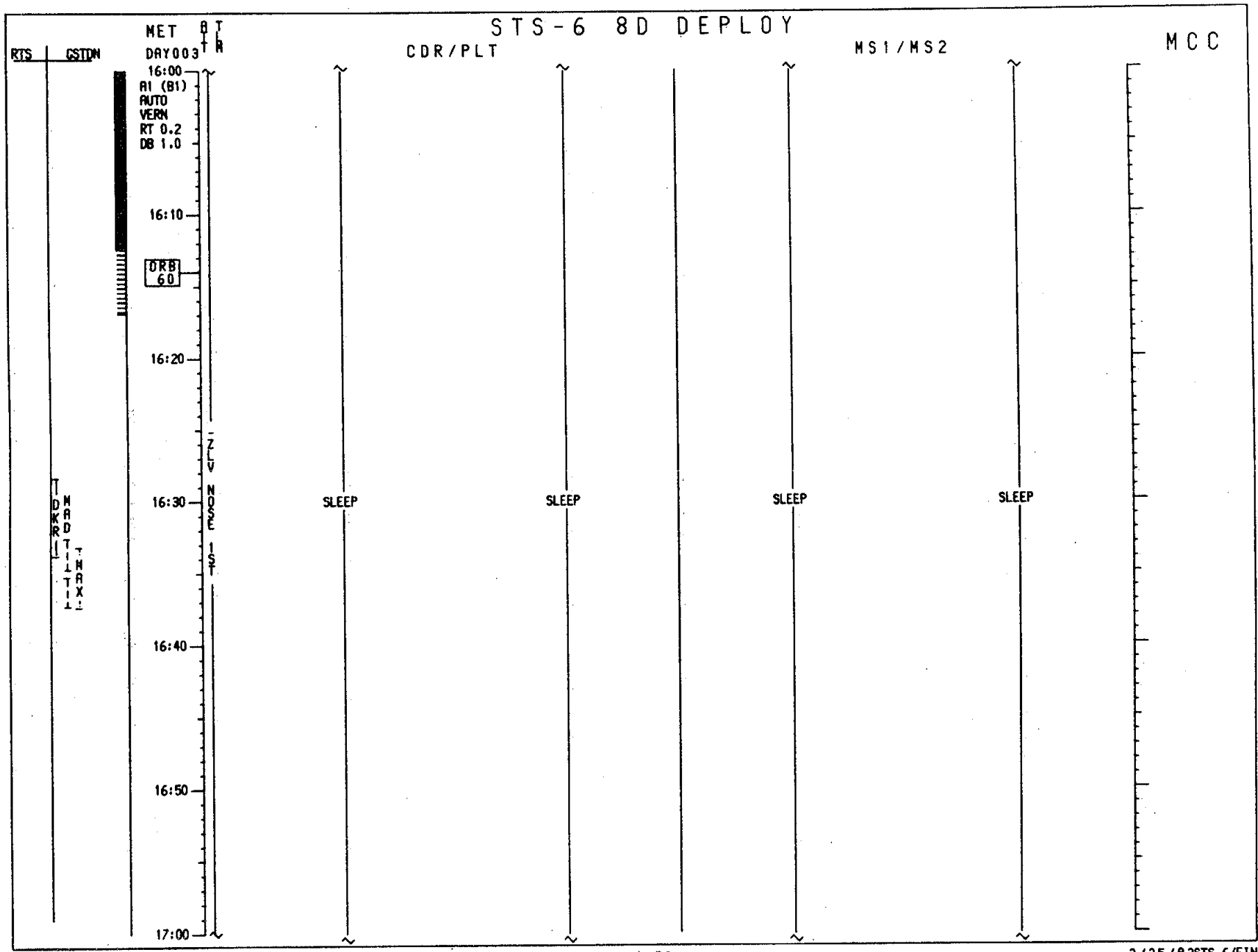
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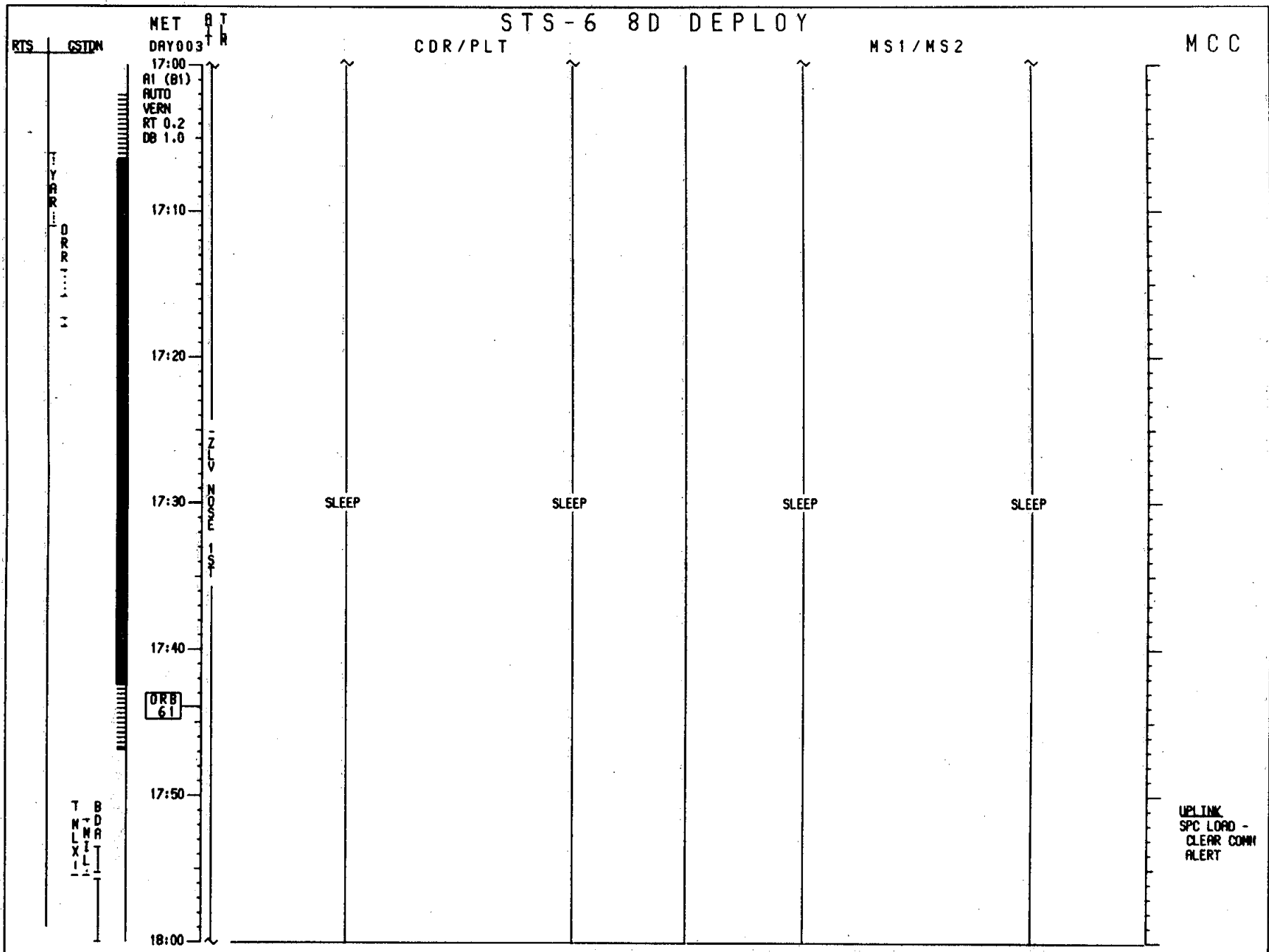


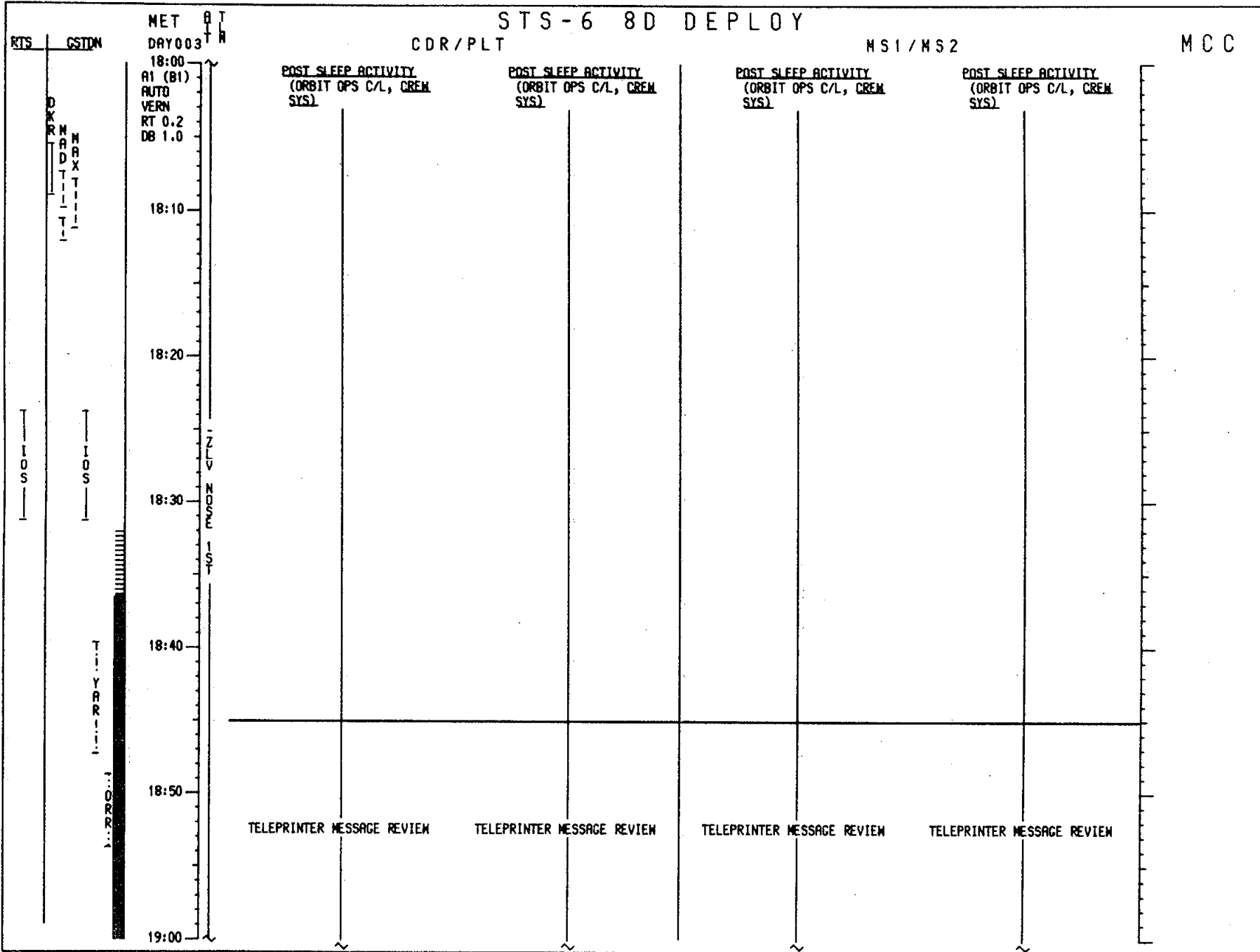


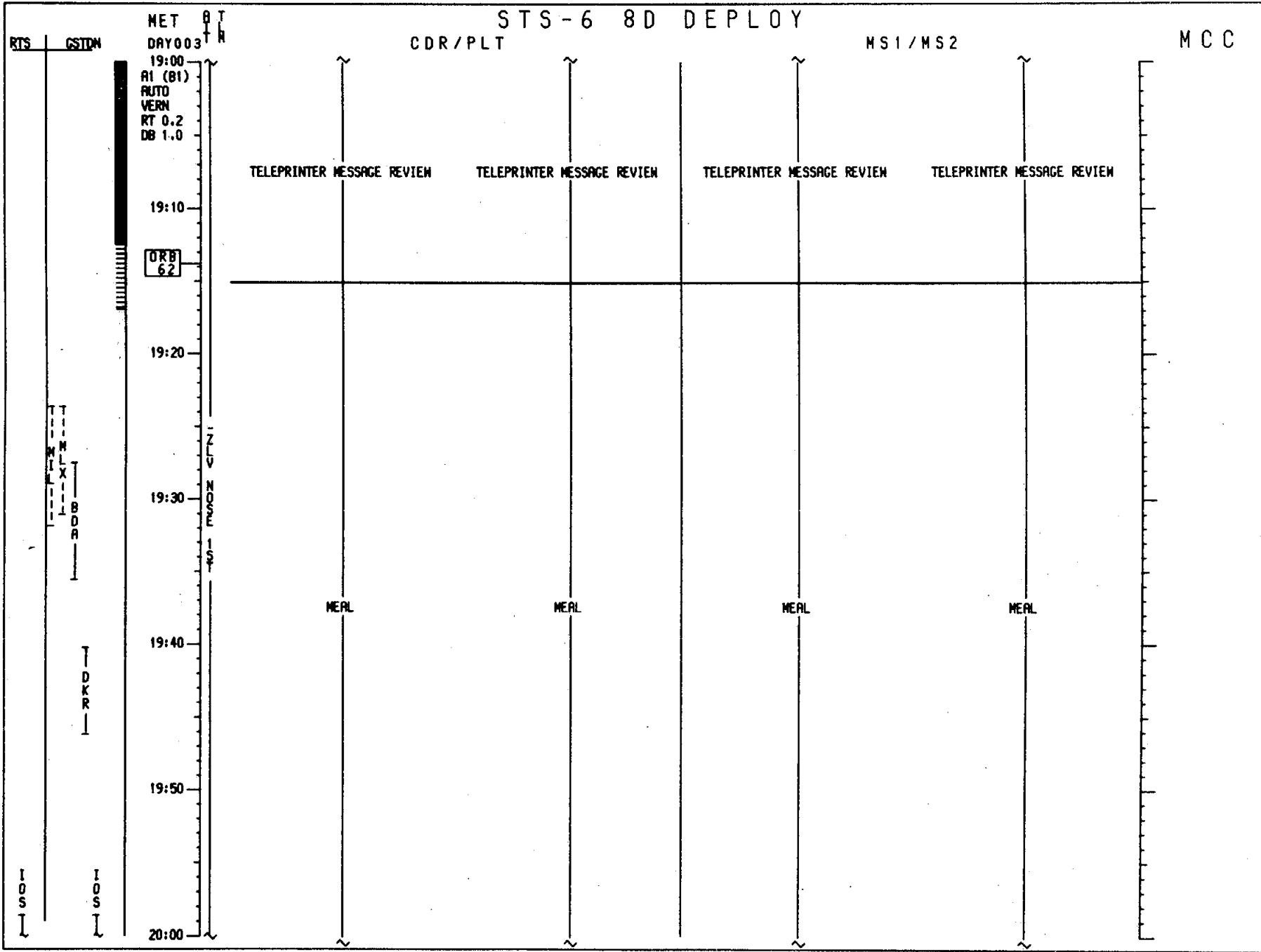












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IMU ALIGN LOG

REQD ID: -Y__ -Z__ ANG ERR__ .__

ANG

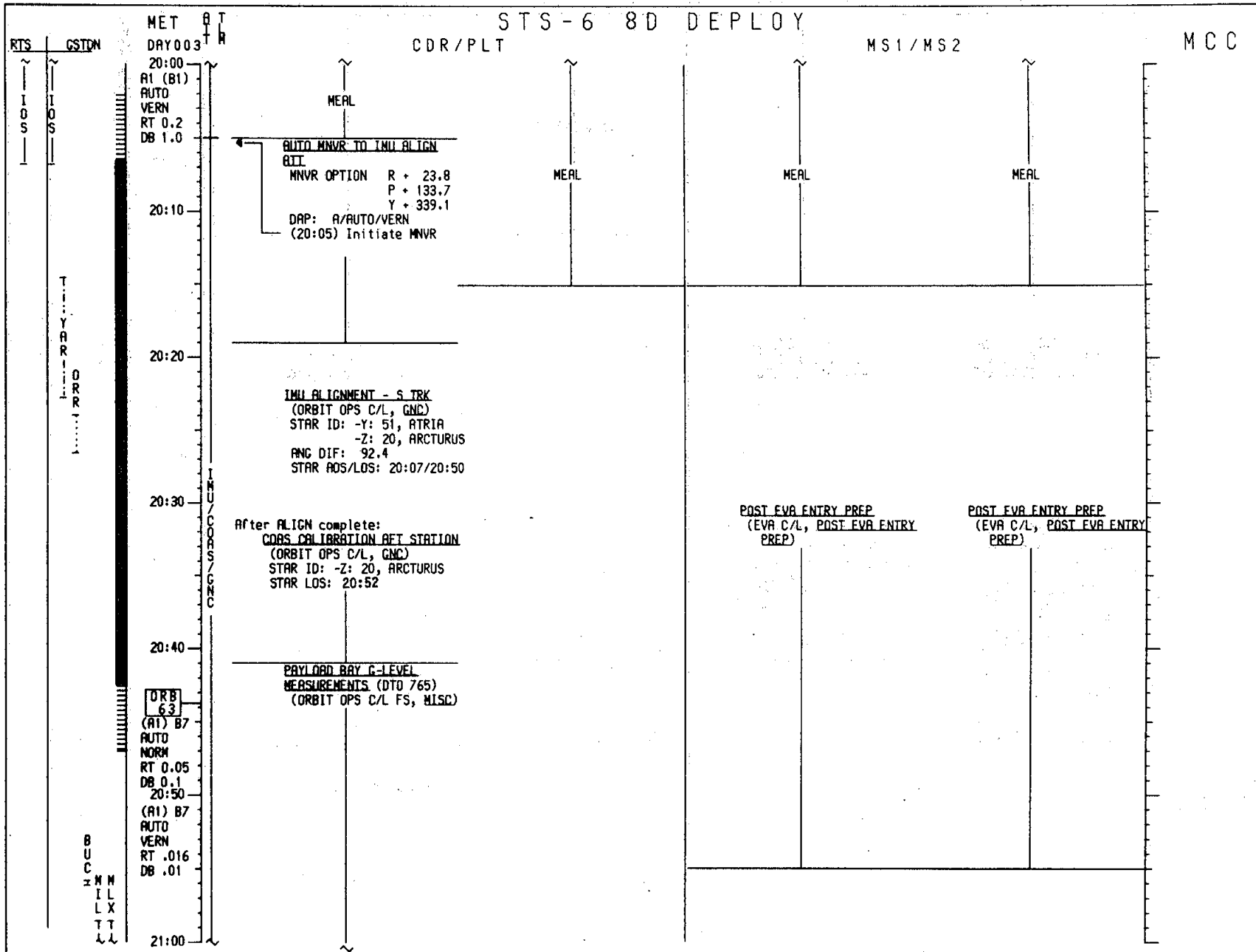
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Δ Y ()__ .__ ()__ .__ ()__ .__

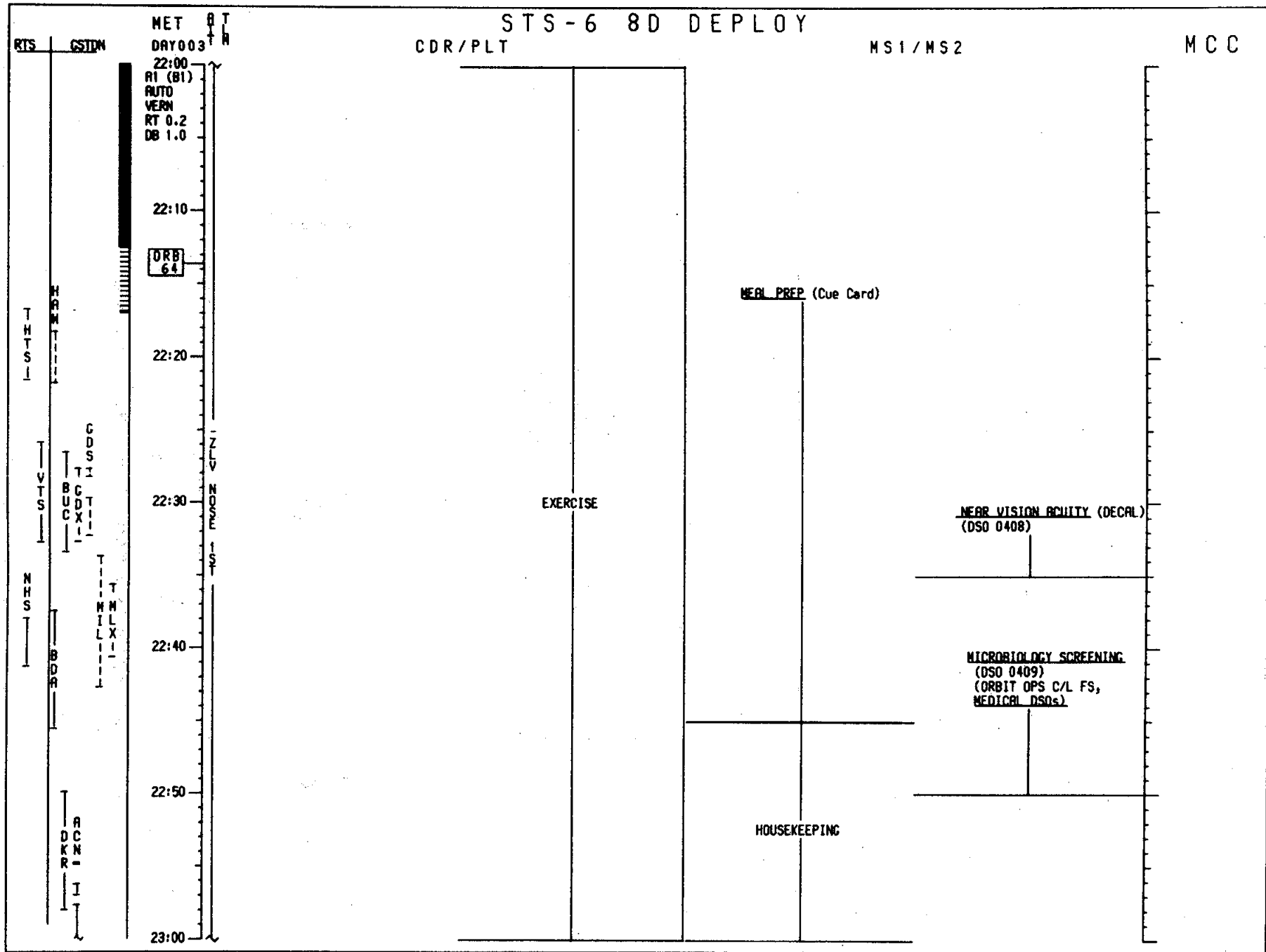
Δ Z ()__ .__ ()__ .__ ()__ .__

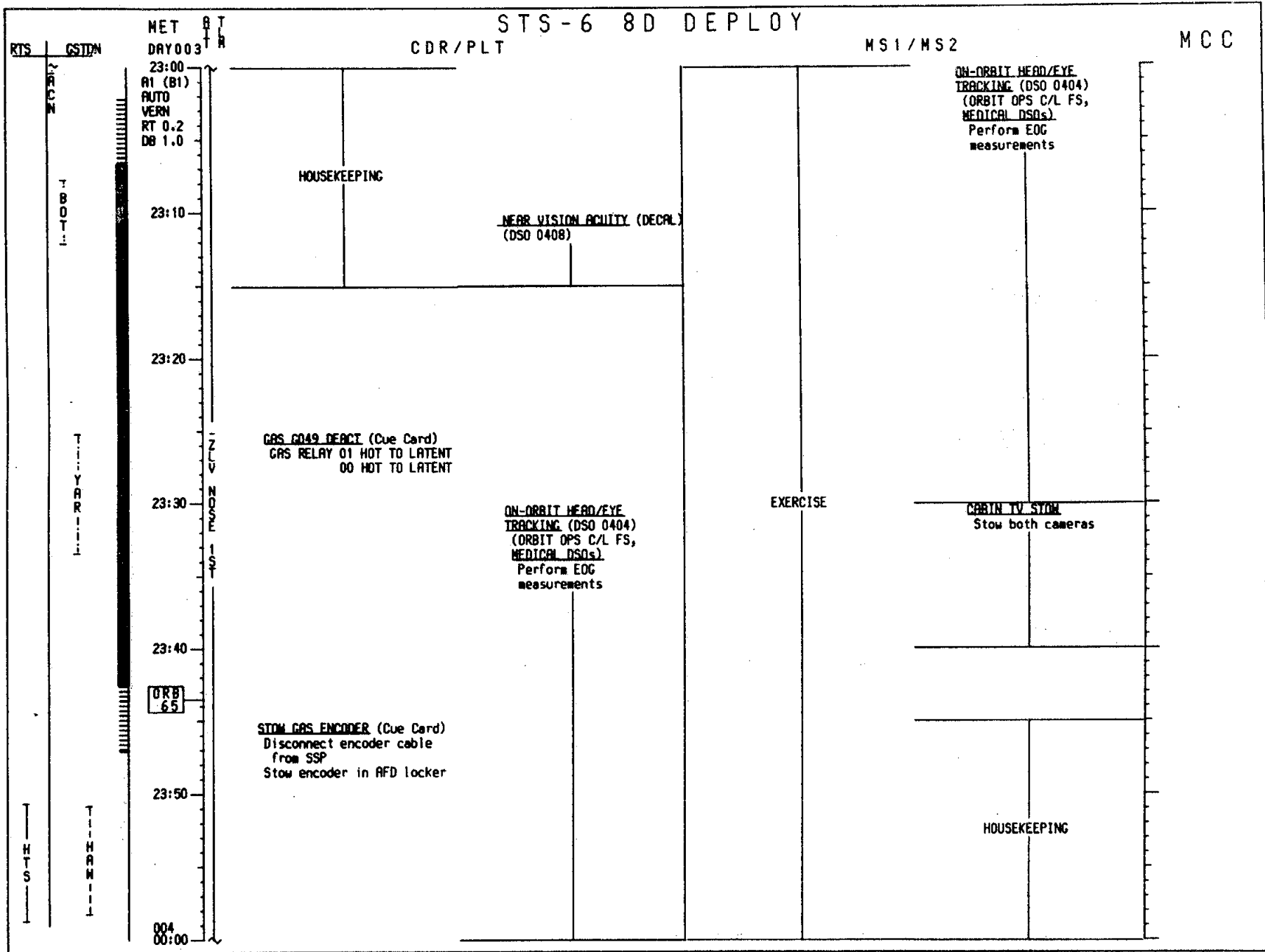
EXECUTION TIME: __ / __ : __ : __

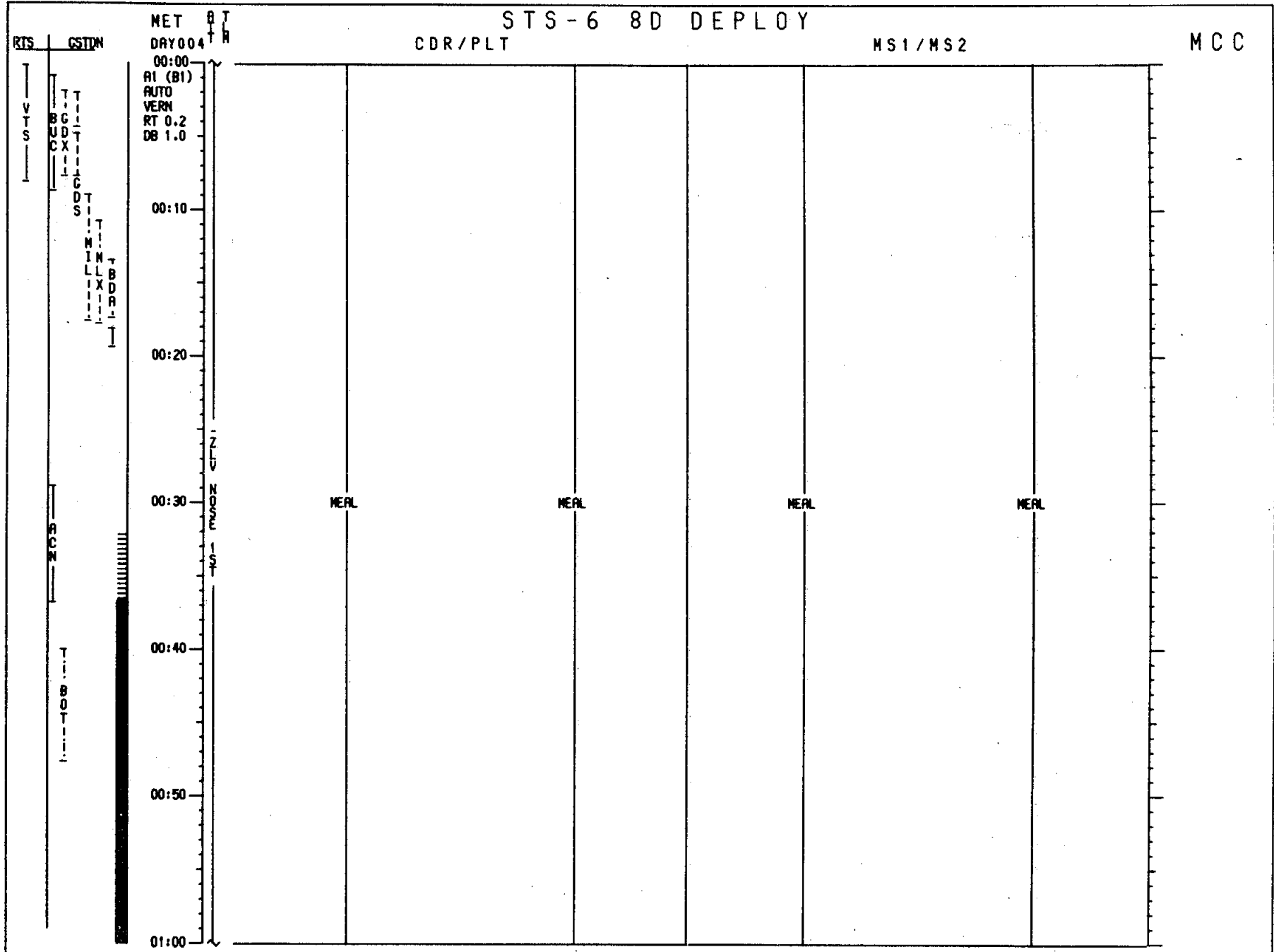
.

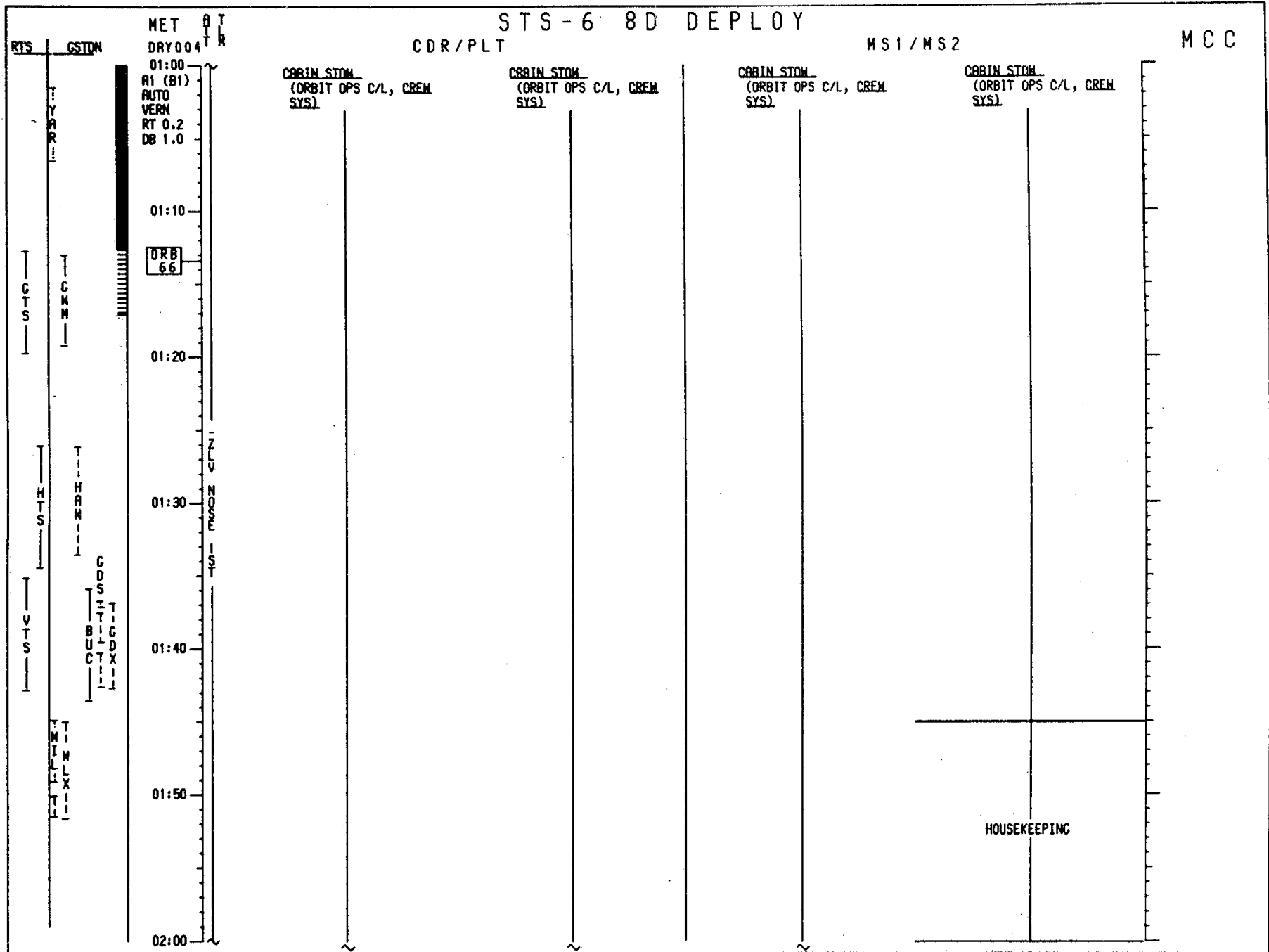


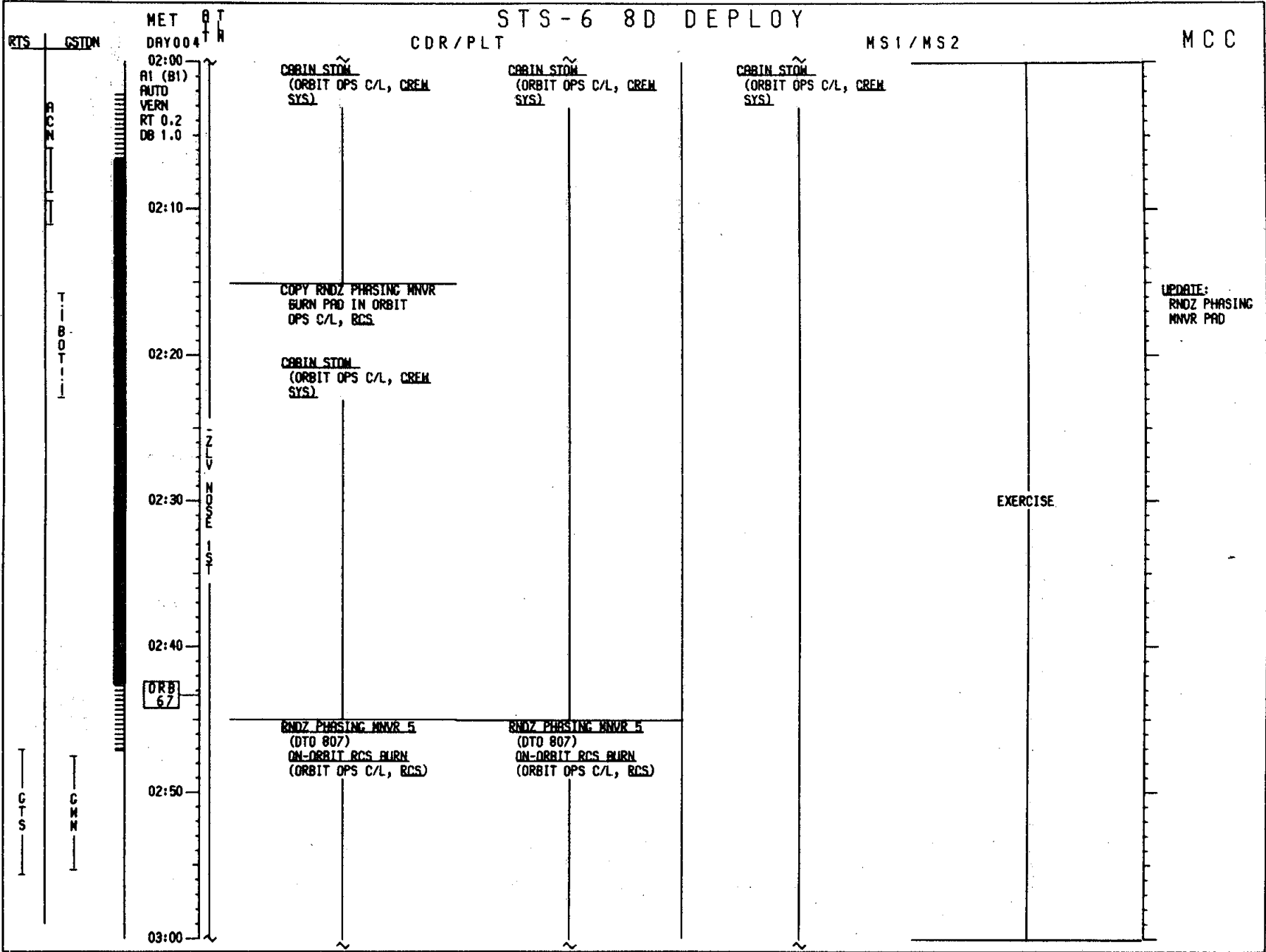
MET AT		STS-6 8D DEPLOY		MS1/MS2		MCC
RIS	CSTDN	DAY 003	CDR/PLT			
T N H S I	M L X I	21:00	PAYLOAD BAY C-LEVEL MEASUREMENTS (DTO 765) (ORBIT OPS C/L FS, MISC)	CO2 ABSORBER REPLACEMENT (Cue Card)		
		A1 (B1) AUTO VERN				
B D A	D K R	21:10	RPT: IMU ALIGN RESULTS			
		A1 (B1) AUTO VERN RT 0.2 DB 1.0				
T I O S I	T I O S I	21:10	AUTO MNVR TO -ZLV ATT (Y-POP, NOSE FWD) TGT ID +2 BODY VECT +3 OM +180 DRP: A/AUTO/VERN Initiate TRK	FUEL CELL PURGE - AUTO (Cue Card)	35MM/02 - BODY FLUIDS SHIFT OPS (DSO 0407) SETUP (PHOTO/TV C/L, 35MM PHOTO DATA)	UPDATE H2O SPLY DUMP QTY TK A & B
		21:20		SUPPLY WATER DUMP (ORBIT OPS C/L, ECLS) Dump TKS	35MM/02 - BODY FLUIDS SHIFT OPS (DSO 0407) SUBJECT (PHOTO/TV C/L, 35MM PHOTO DATA)	35MM/02 - BODY FLUIDS SHIFT OPS (DSO 0407) PHOTOGRAPHER (PHOTO/TV C/L, 35MM PHOTO DATA)
T I O S I	T I O S I	21:30			35MM/02 - BODY FLUIDS SHIFT OPS (DSO 0407) PHOTOGRAPHER (PHOTO/TV C/L, 35MM PHOTO DATA)	35MM/02 - BODY FLUIDS SHIFT OPS (DSO 0407) SUBJECT (PHOTO/TV C/L, 35MM PHOTO DATA)
		21:40	NOSI DEACTIVATION (Cue Card)		AUDIOMETRY (DSO 0410) (ORBIT OPS C/L FS, MEDICAL DSOs)	AUDIOMETRY (DSO 0410) (ORBIT OPS C/L FS, MEDICAL DSOs)
		21:50		HOUSEKEEPING		
		22:00				





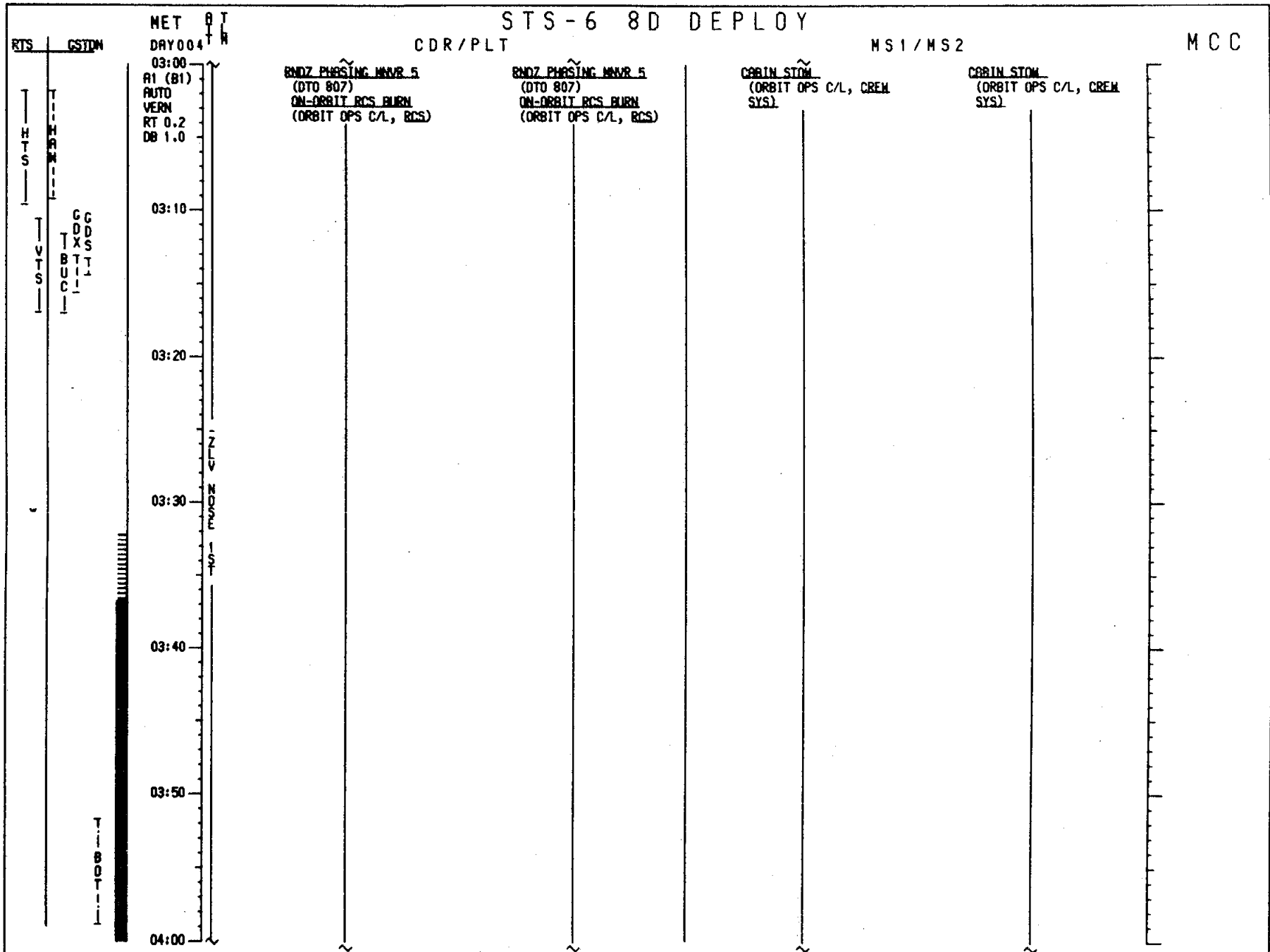


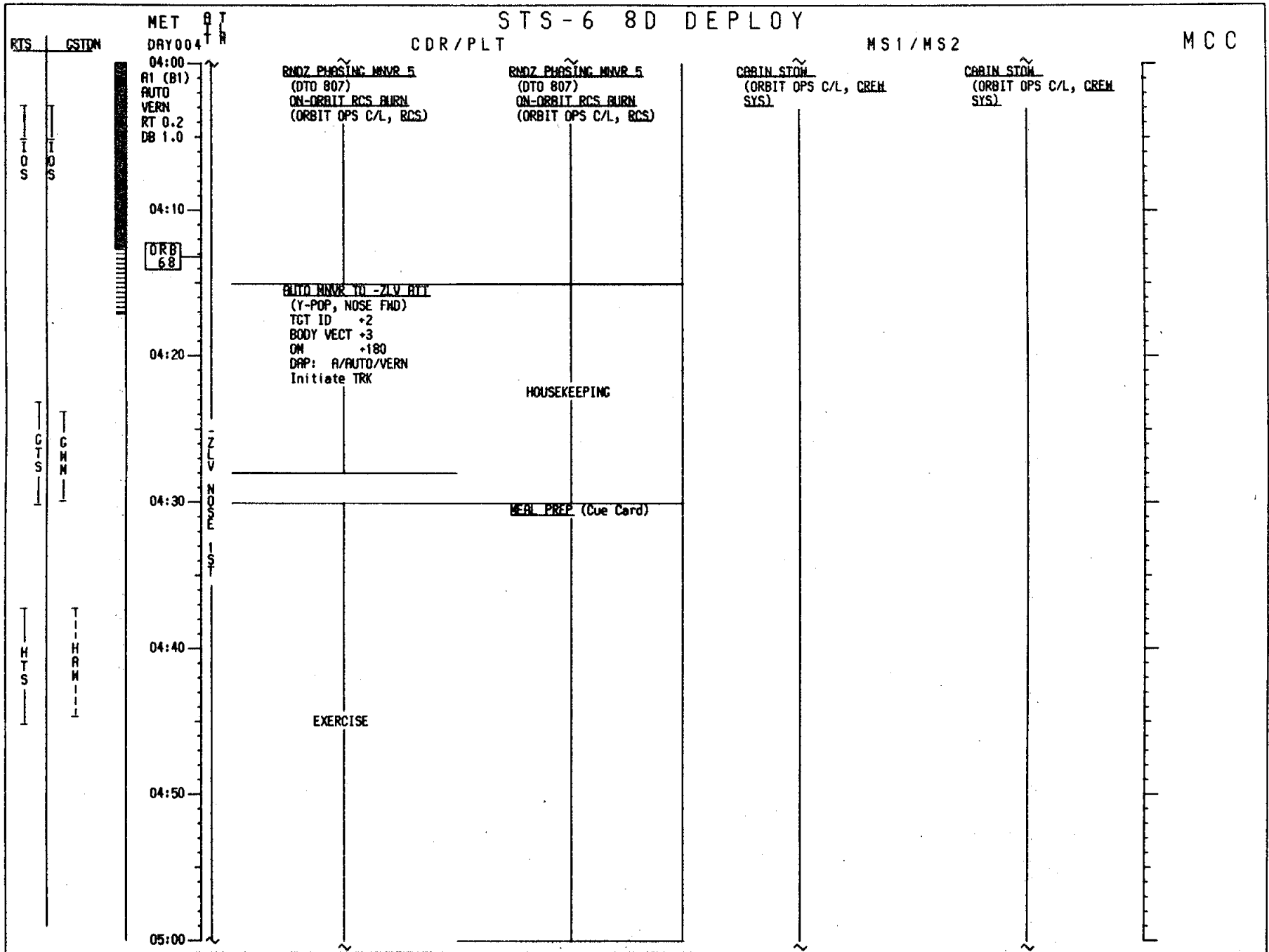


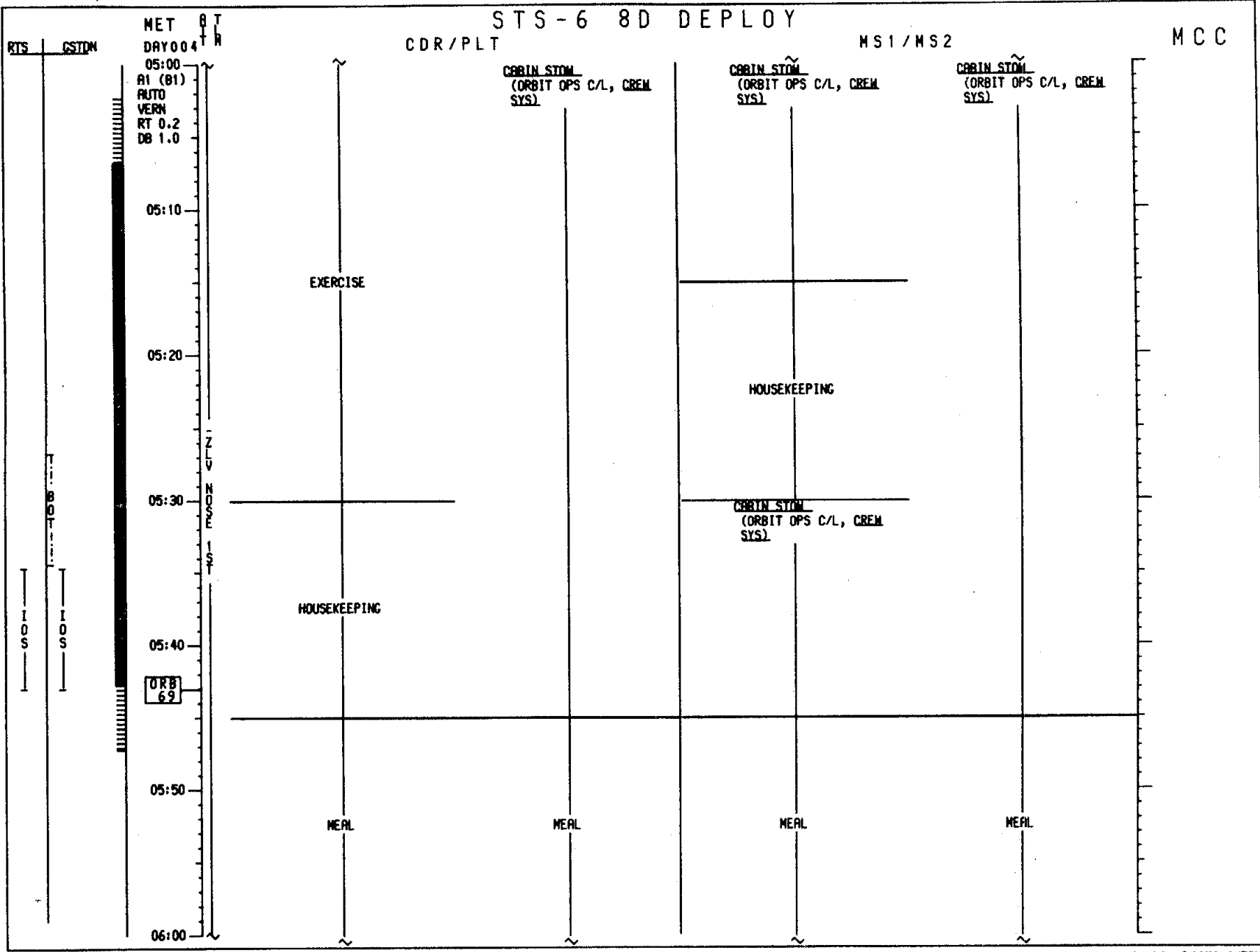


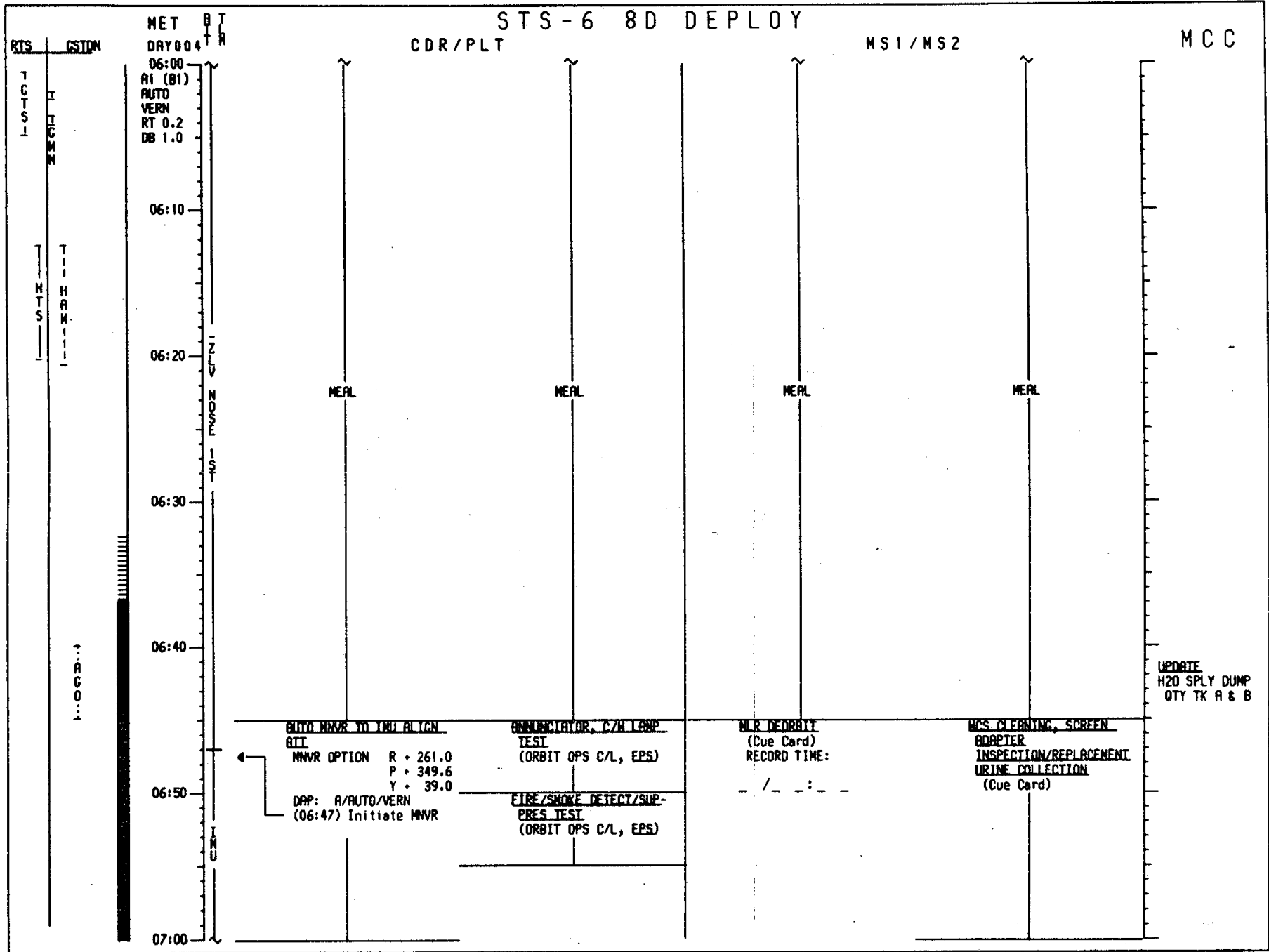
MET DAY 004
RTS GSTDN
RT 0.2
DB 1.0
A1 (B1)
AUTO
VERN
T
B
O
T
T
O
M
N
Z
A
P
R
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M

STS-6 8D DEPLOY









IMU ALIGN LOG

REQD ID: -Y__ -Z__ ANG ERR__ .__

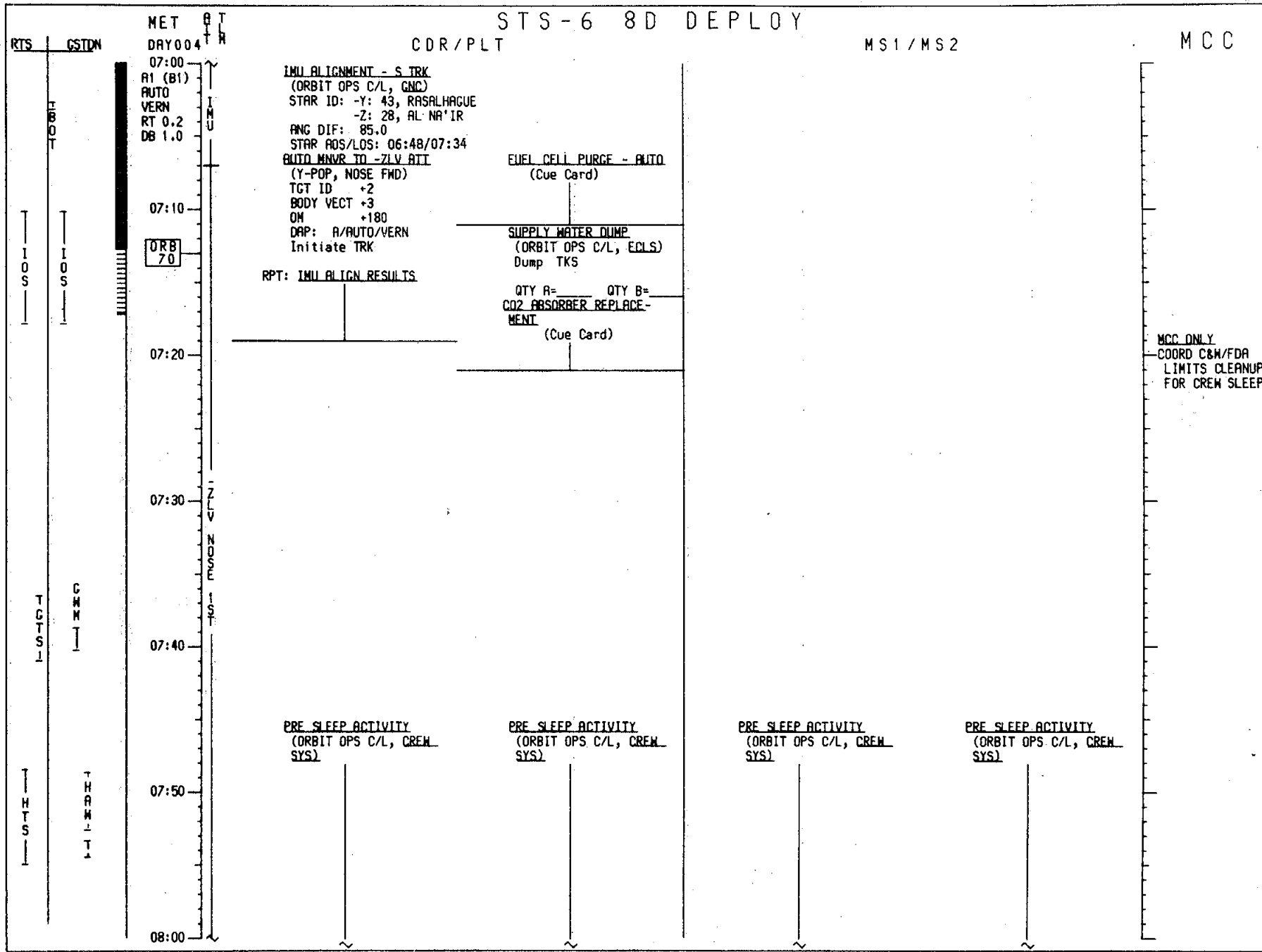
ANG

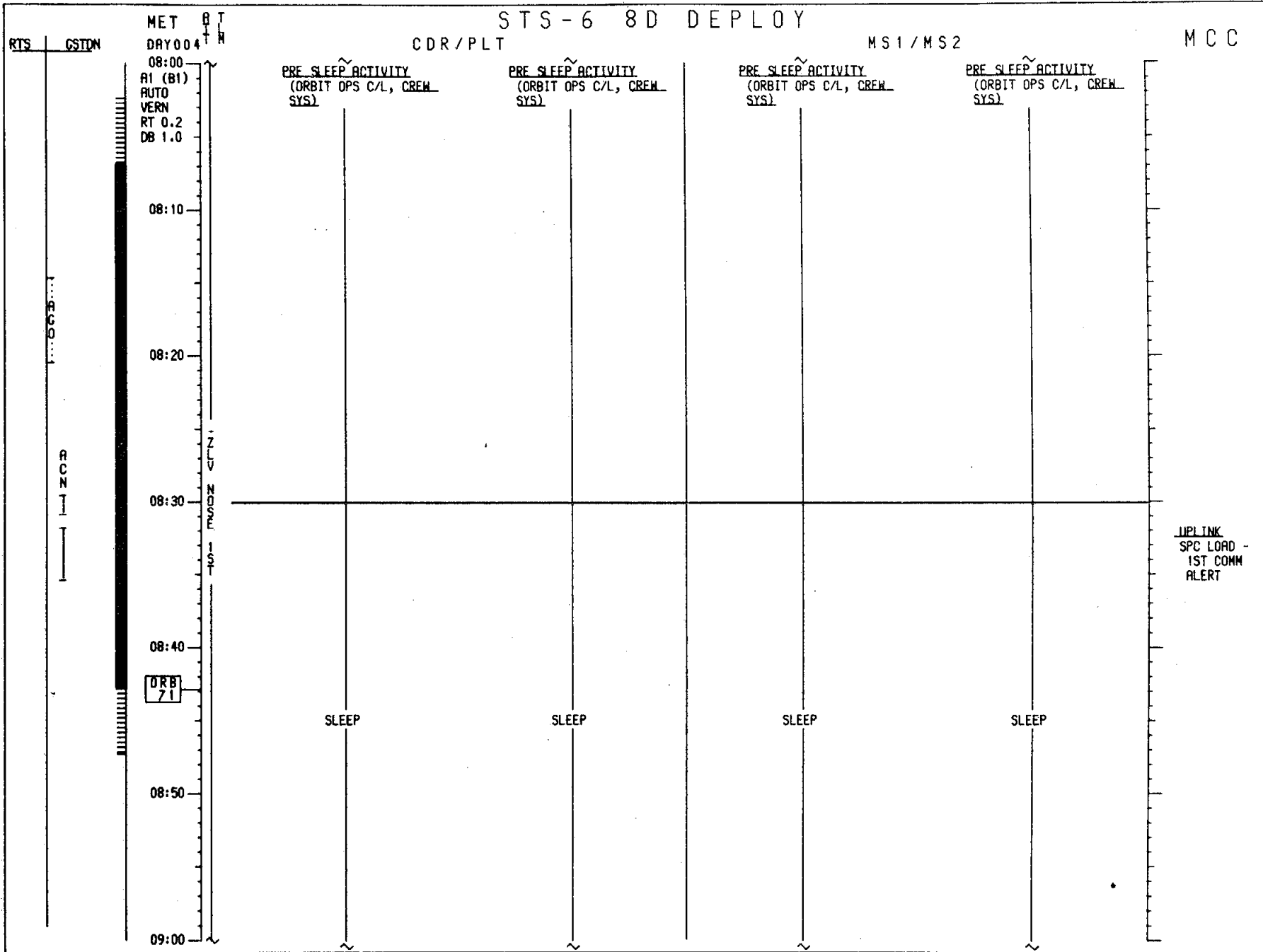
Δ X ()__ .__ ()__ .__ ()__ .__

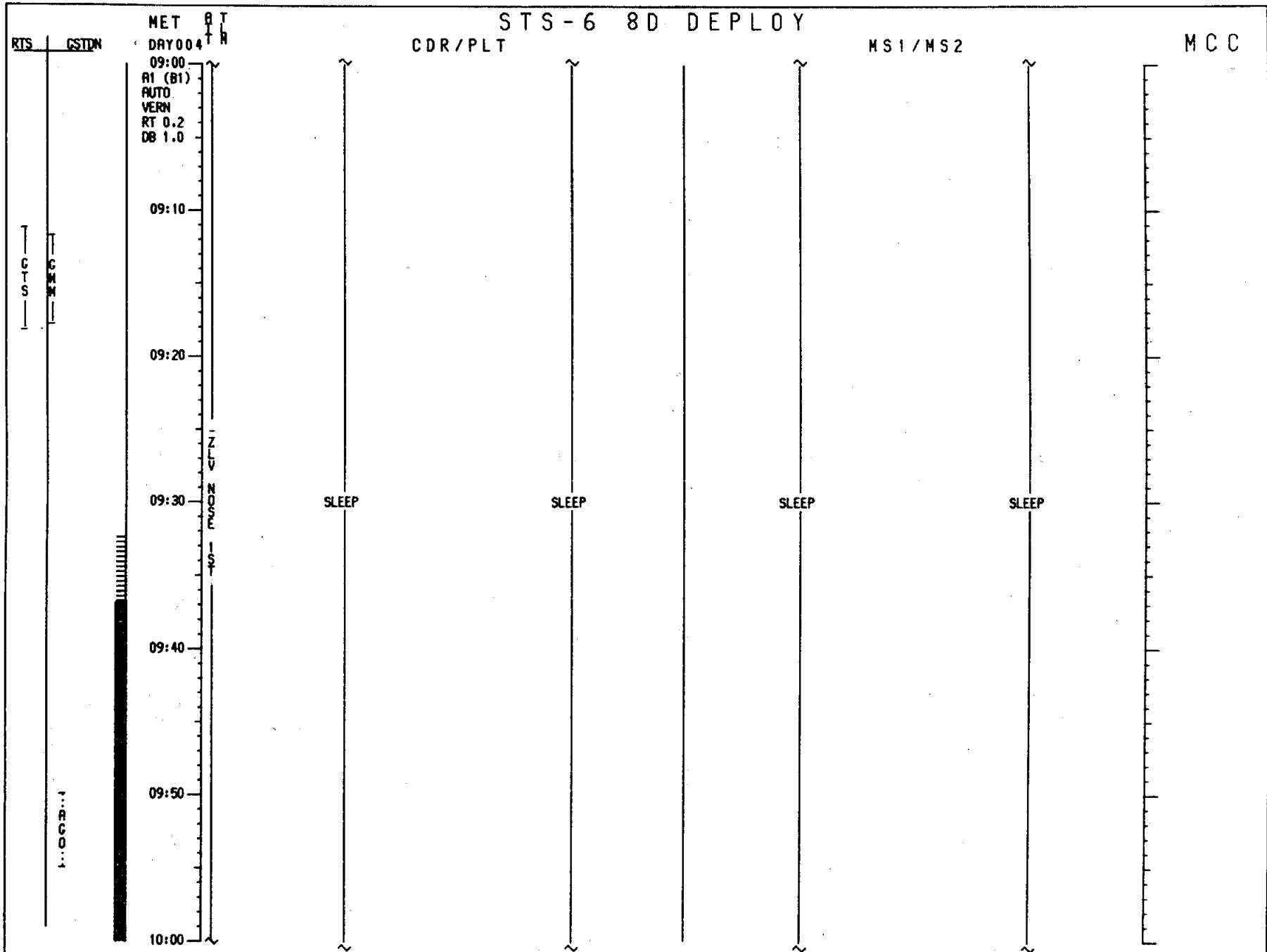
Δ Y ()__ .__ ()__ .__ ()__ .__

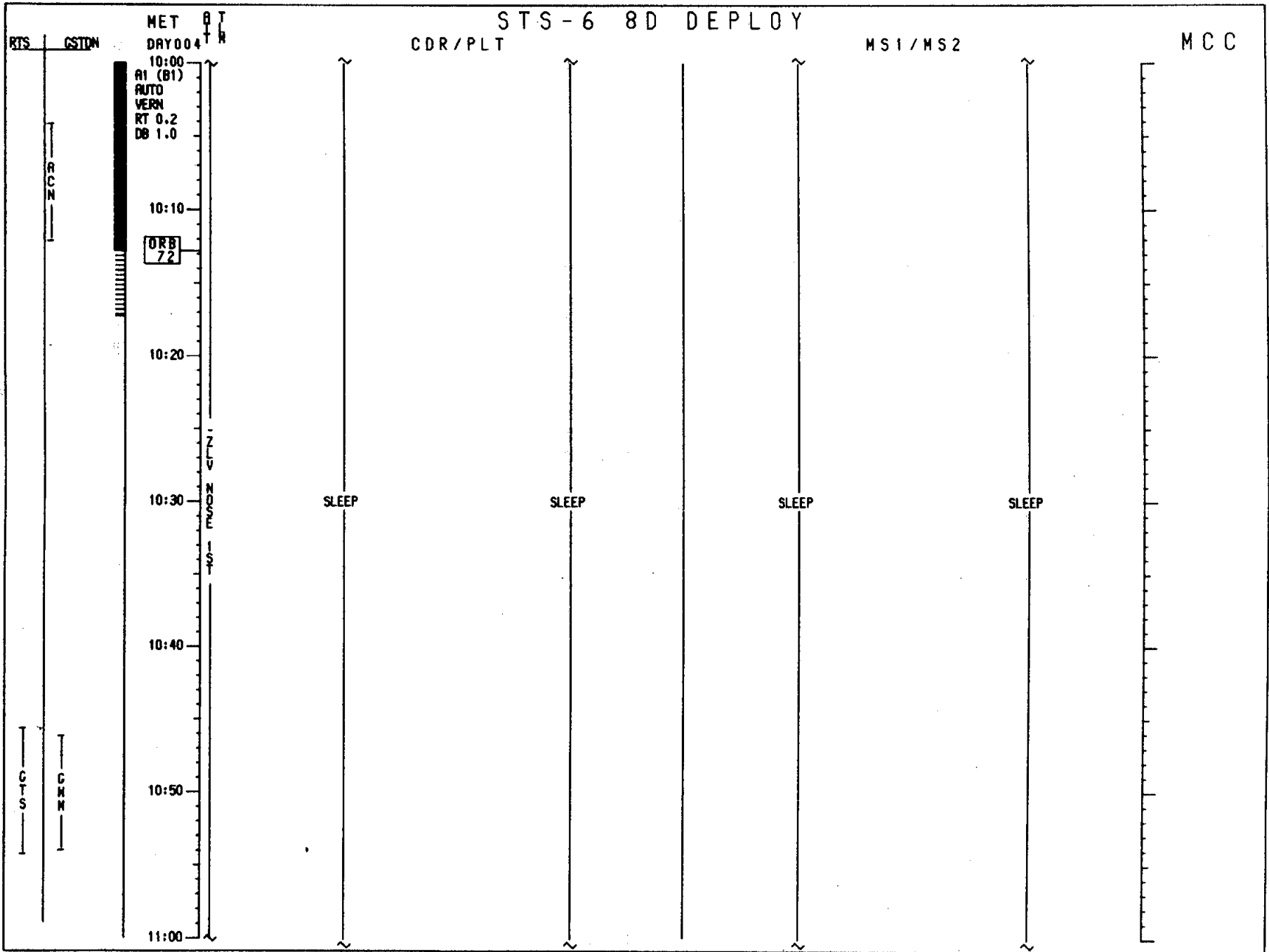
Δ Z ()__ .__ ()__ .__ ()__ .__

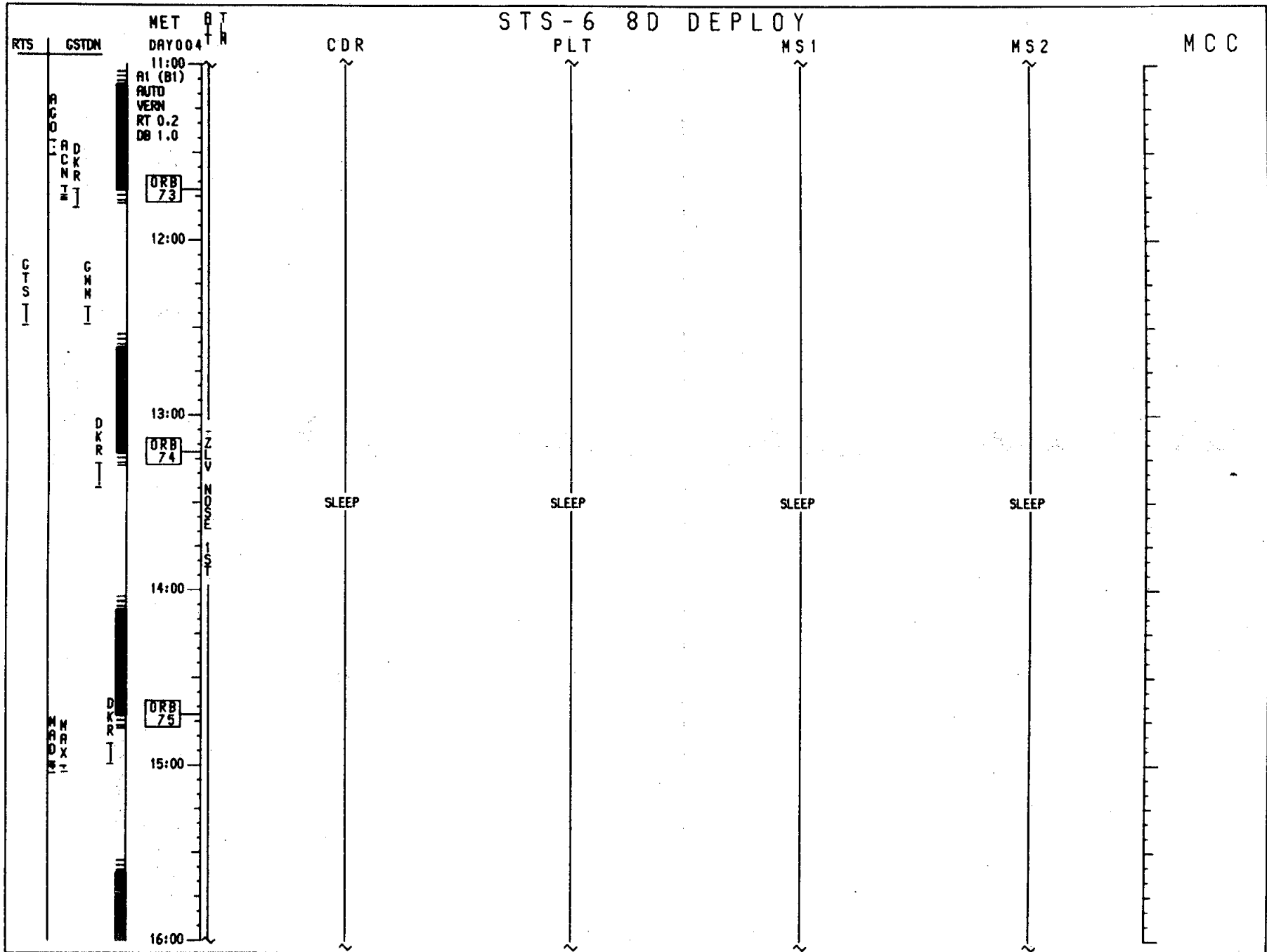
EXECUTION TIME: __ / __ : __ : __

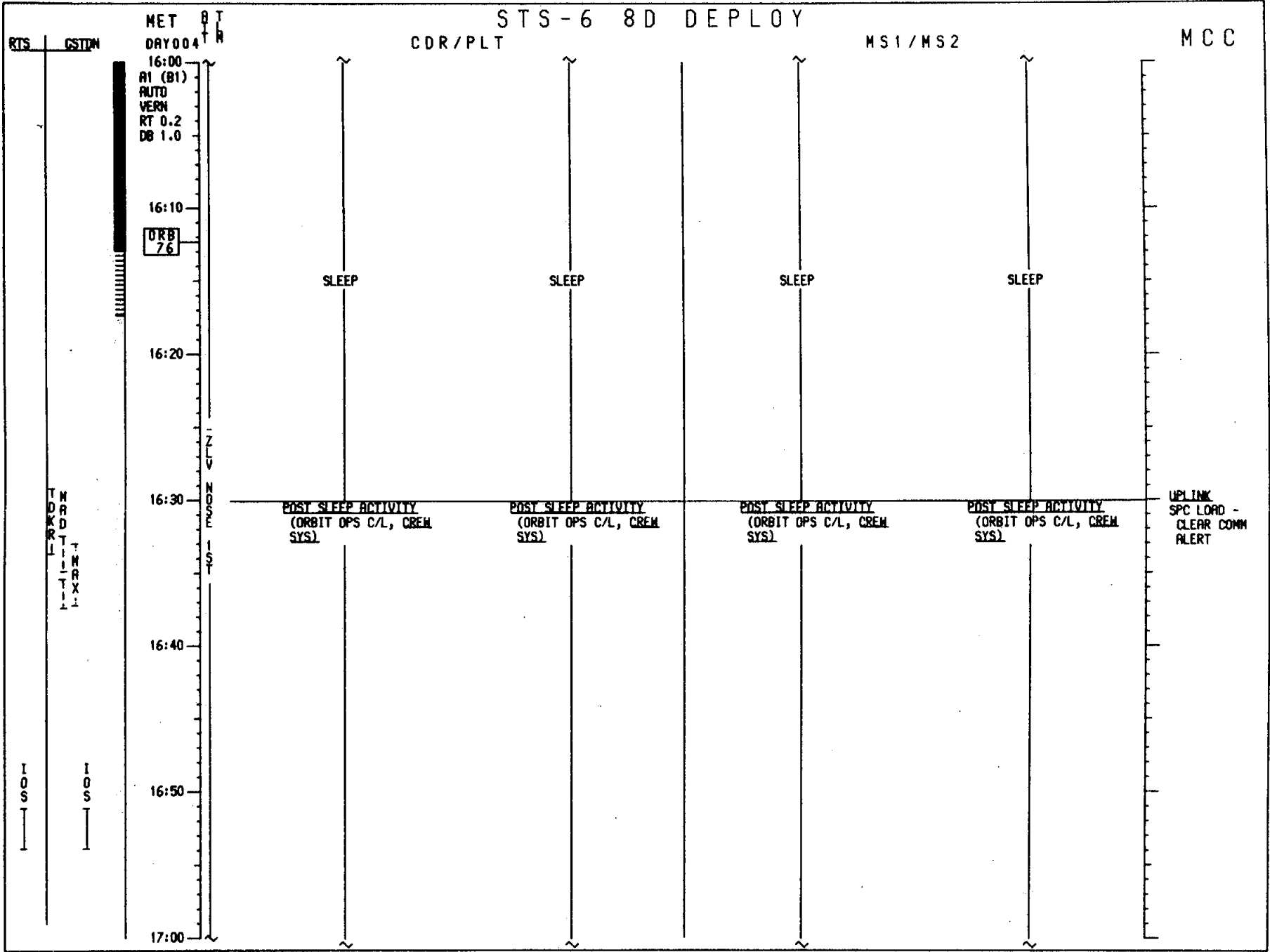




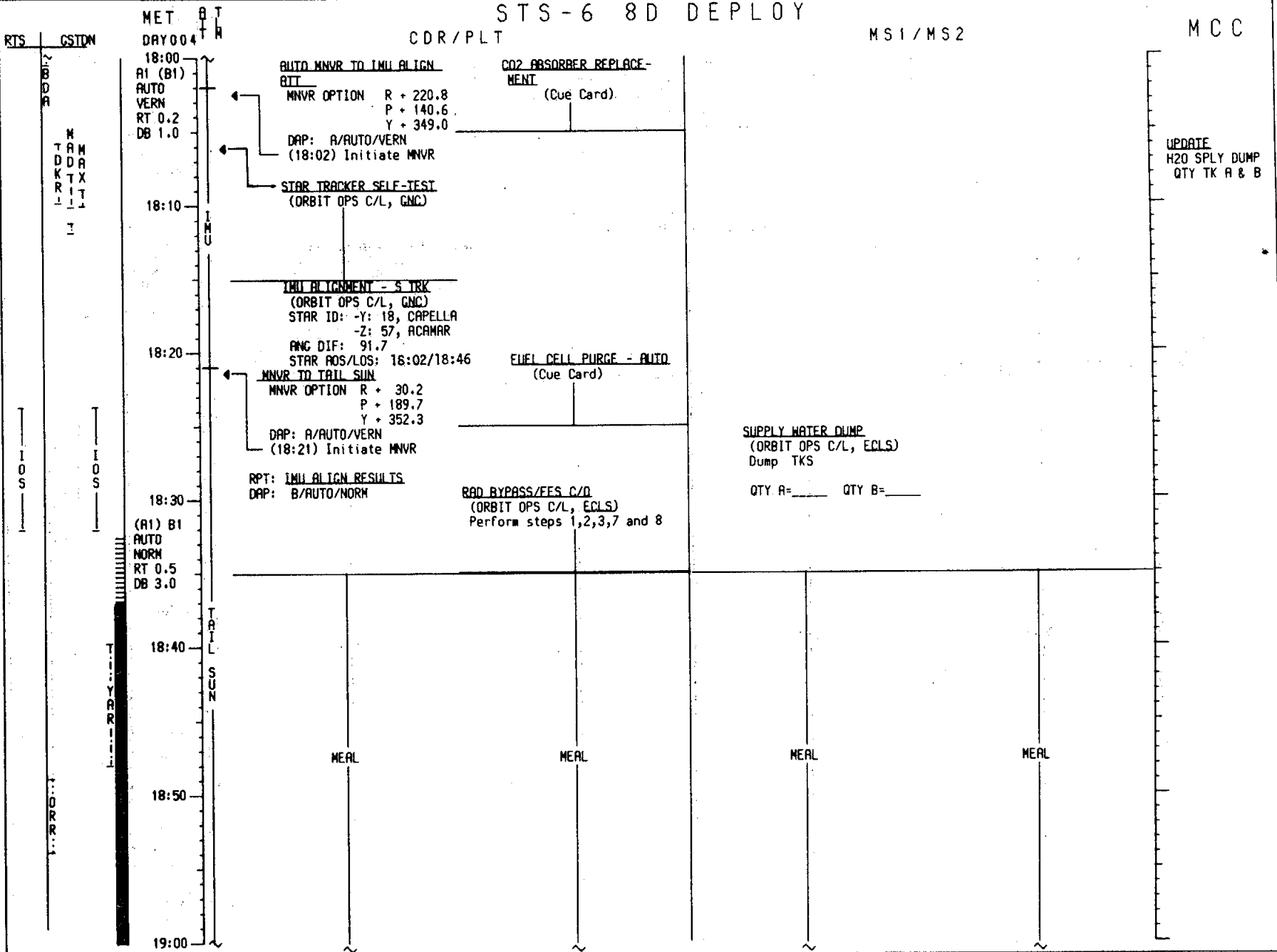


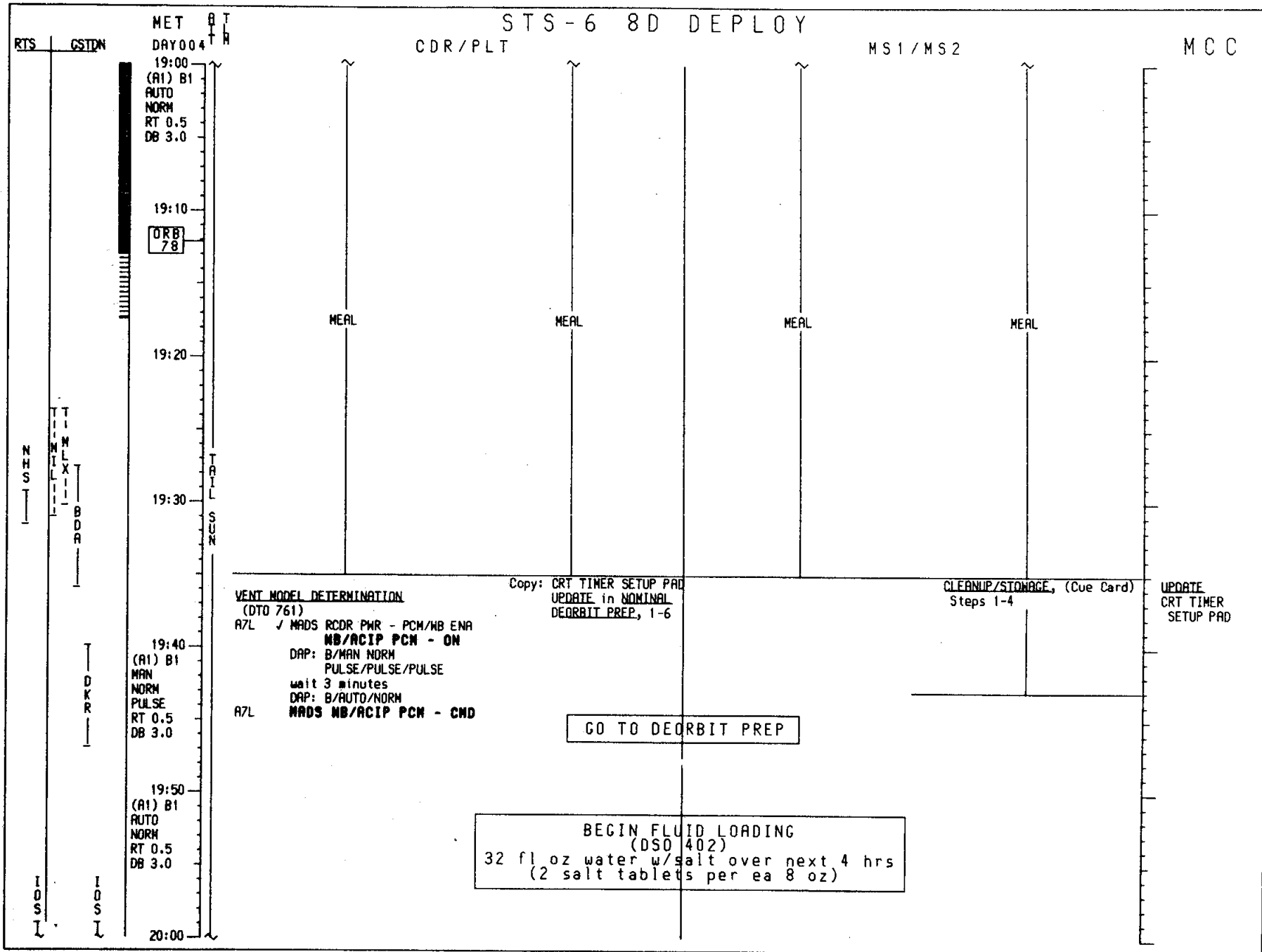







```
IMU ALIGN LOG
REQD ID: -Y__ __ -Z__ __ ANG ERR__ .__ __
ANG
Δ X ( )__ .__ __ ( )__ .__ __ ( )__ .__ __
Δ Y ( )__ .__ __ ( )__ .__ __ ( )__ .__ __
Δ Z ( )__ .__ __ ( )__ .__ __ ( )__ .__ __
EXECUTION TIME: __ __ / __ __ : __ __ : __ __
.
```





CONTINGENCY TIMELINES

9D DEPLOYMENT..... 5A-1
10D DEPLOYMENT..... 5B-1
18A DEPLOYMENT..... 5C-1
WAVE OFF (1 DAY LATE ENTRY)..... 5D-1
CIU FAILURE..... 5E-1

CONTINGENCY
TIMELINES

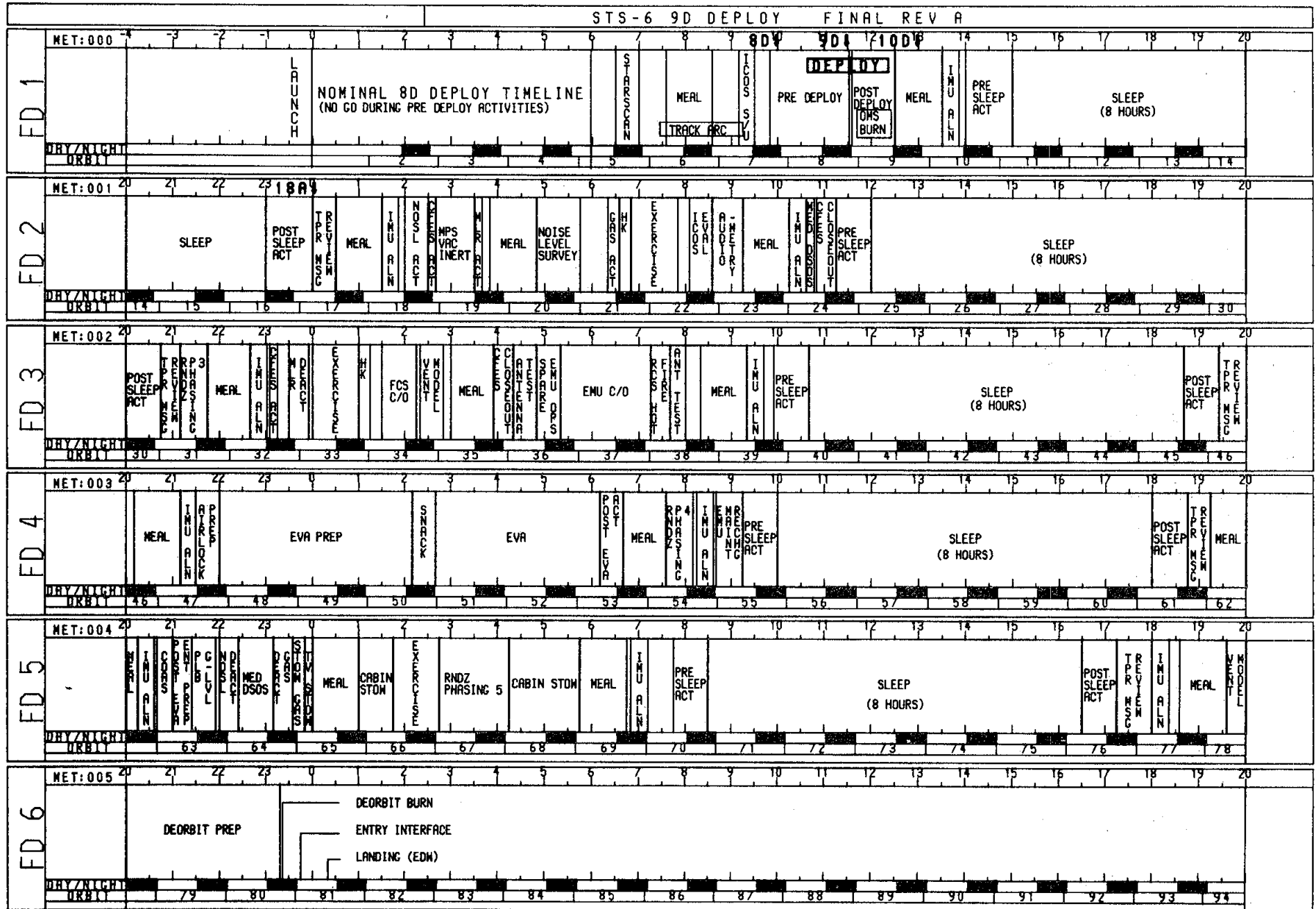
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9D DEPLOYMENT

The 9D Deployment Timeline is designed to accommodate delaying deployment to the 9D opportunity prior to starting the predeploy activities. The nominal timeline is used up to 06:00 MET. A starscan is included for the thermal pwrn case (if required). All nominal deployment activities are included except the late IUS direct check. Late IUS/TDRS checks are scheduled at the last acceptable RTS/STDN site. Additional assumptions are shown on page 5A-3.

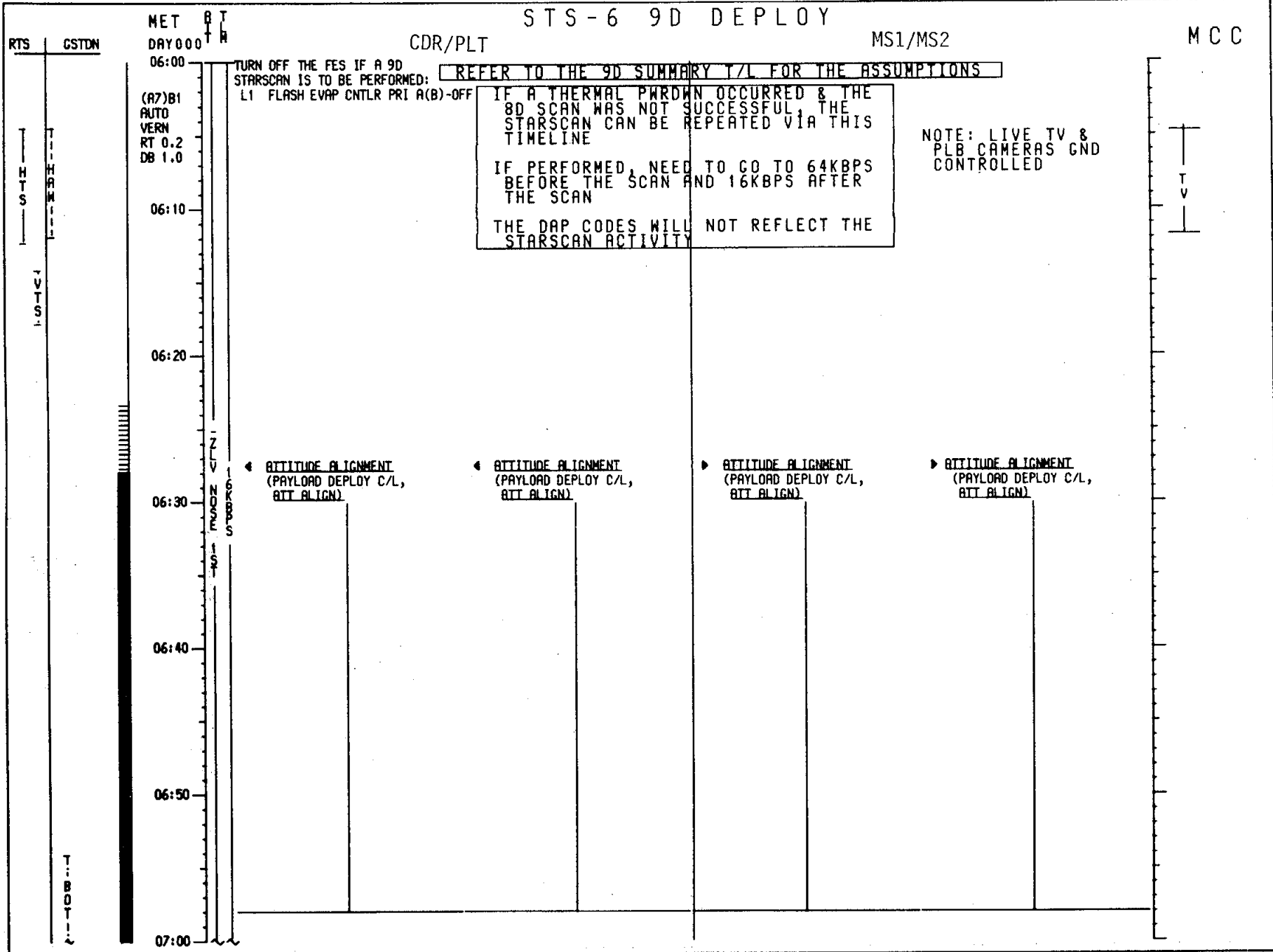
This timeline is based on the 18A (cycle 3 updated) flight profile.

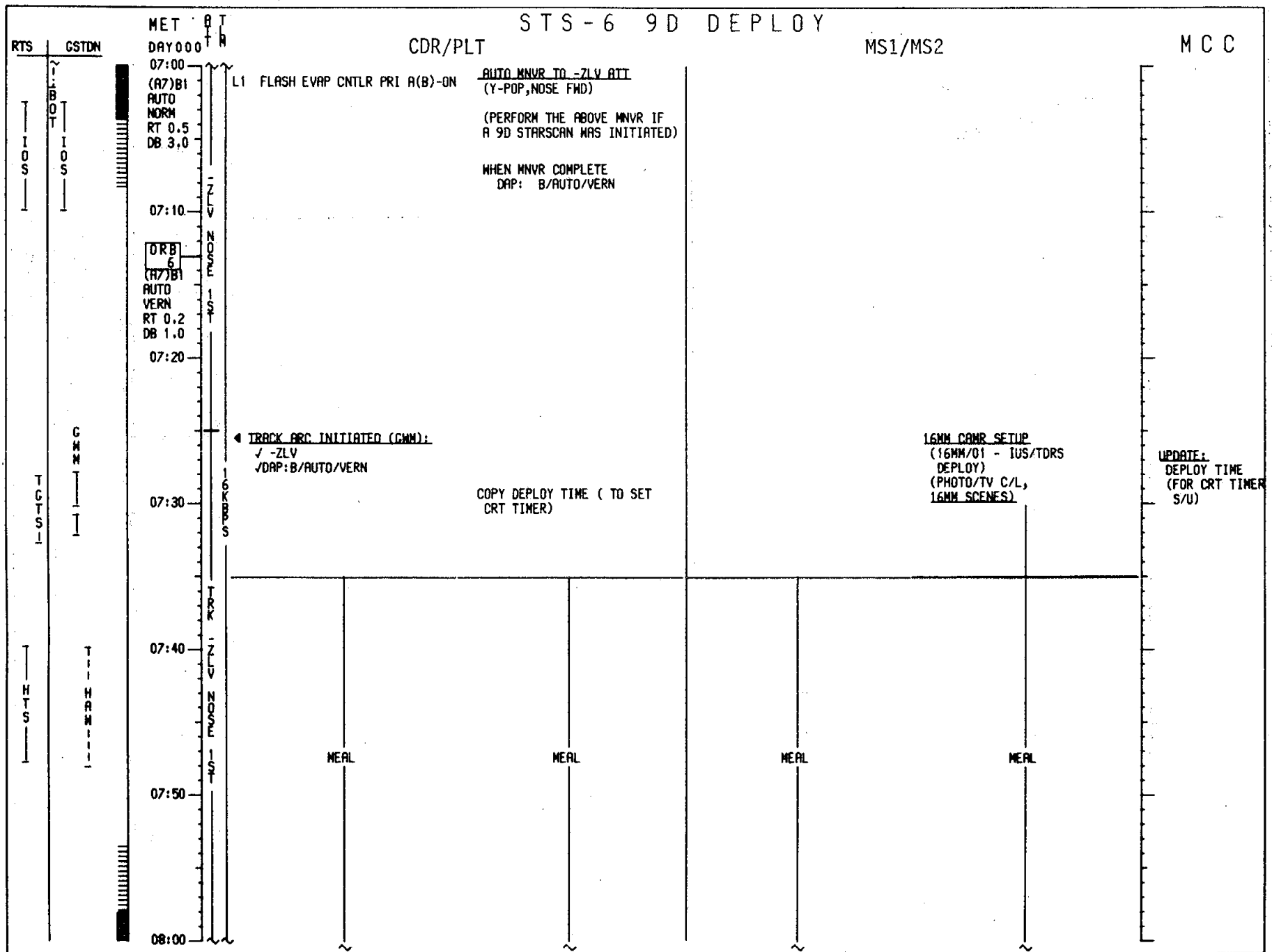
9D DEPLOYMENT

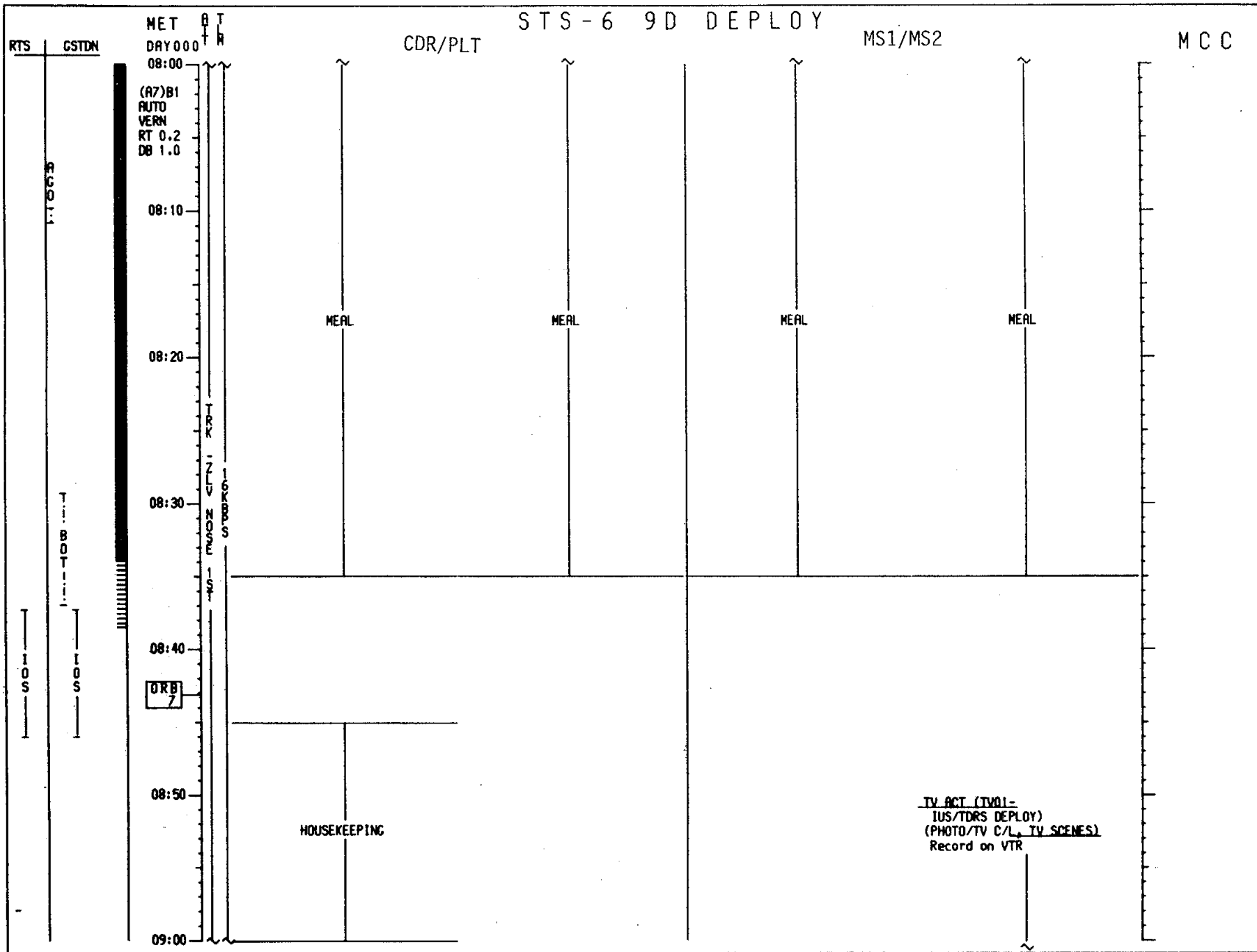


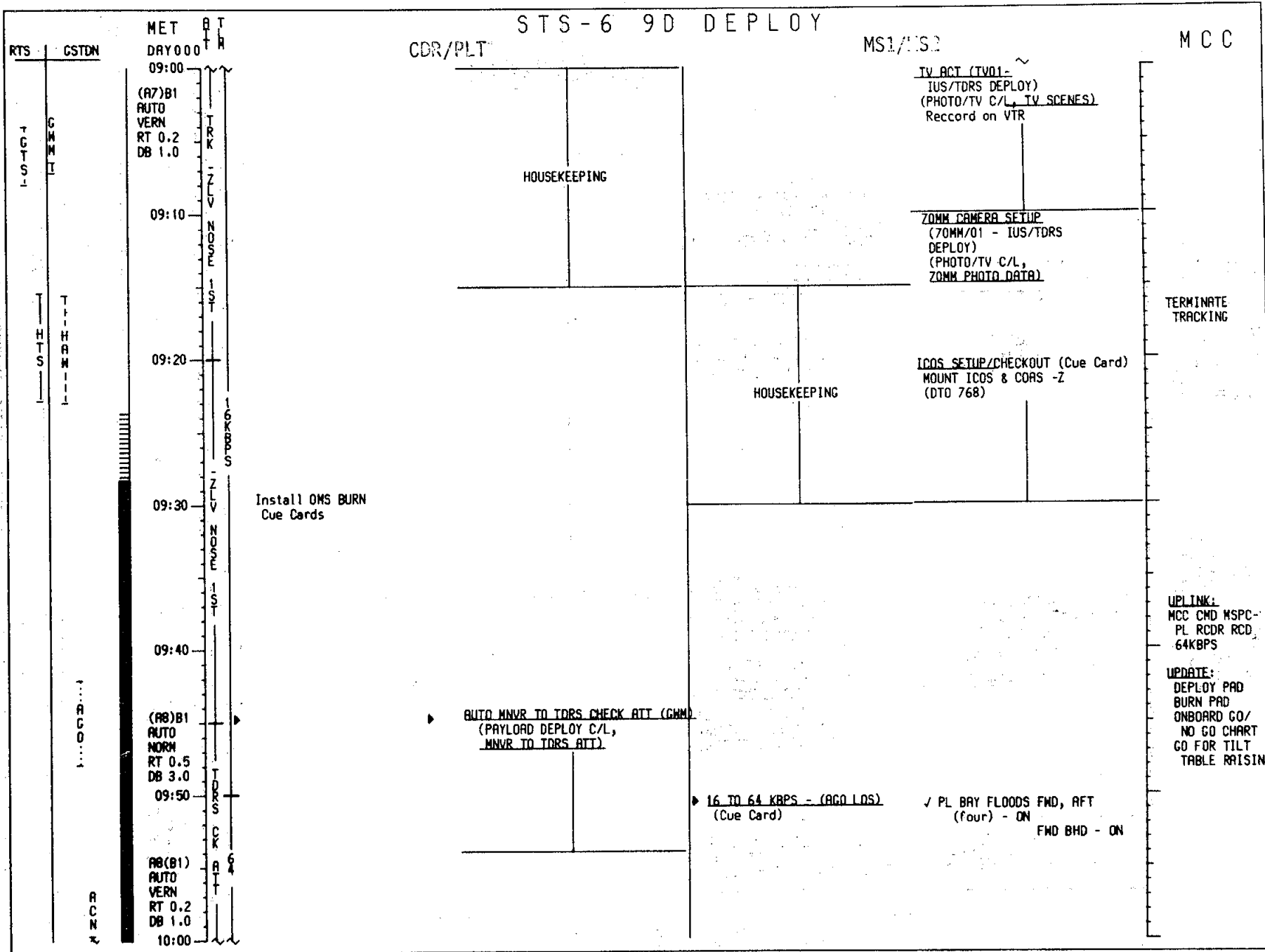
GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
090:06:30 / 090:18:30		000:12:00 / 001:00:00		090:00:30 / 090:12:30		01 / 090	GMT -23.3		MARCH 31, 1983	STS 6	FINAL REV A	3/25/83
9D TIMELINE												
GMT :090 FD :01 MET :000												
CDR		MEAL		PRE SLEEP ACT				SLEEP				POST SLEEP ACT
PLT		MEAL		PRE SLEEP ACT				SLEEP				POST SLEEP ACT
MS1	POST DPY ACT	MEAL		PRE SLEEP ACT				SLEEP				POST SLEEP ACT
MS2	POST DPY ACT	MEAL		PRE SLEEP ACT				SLEEP				POST SLEEP ACT
DAY/NIGHT												
ORBIT												
GSTDN COVERAGE												
SCLS COVERAGE												
TV												
DEORB EDN NOR												
ALTITUDE												
MNVS												
EXPT												
TLH												
NOTES:												

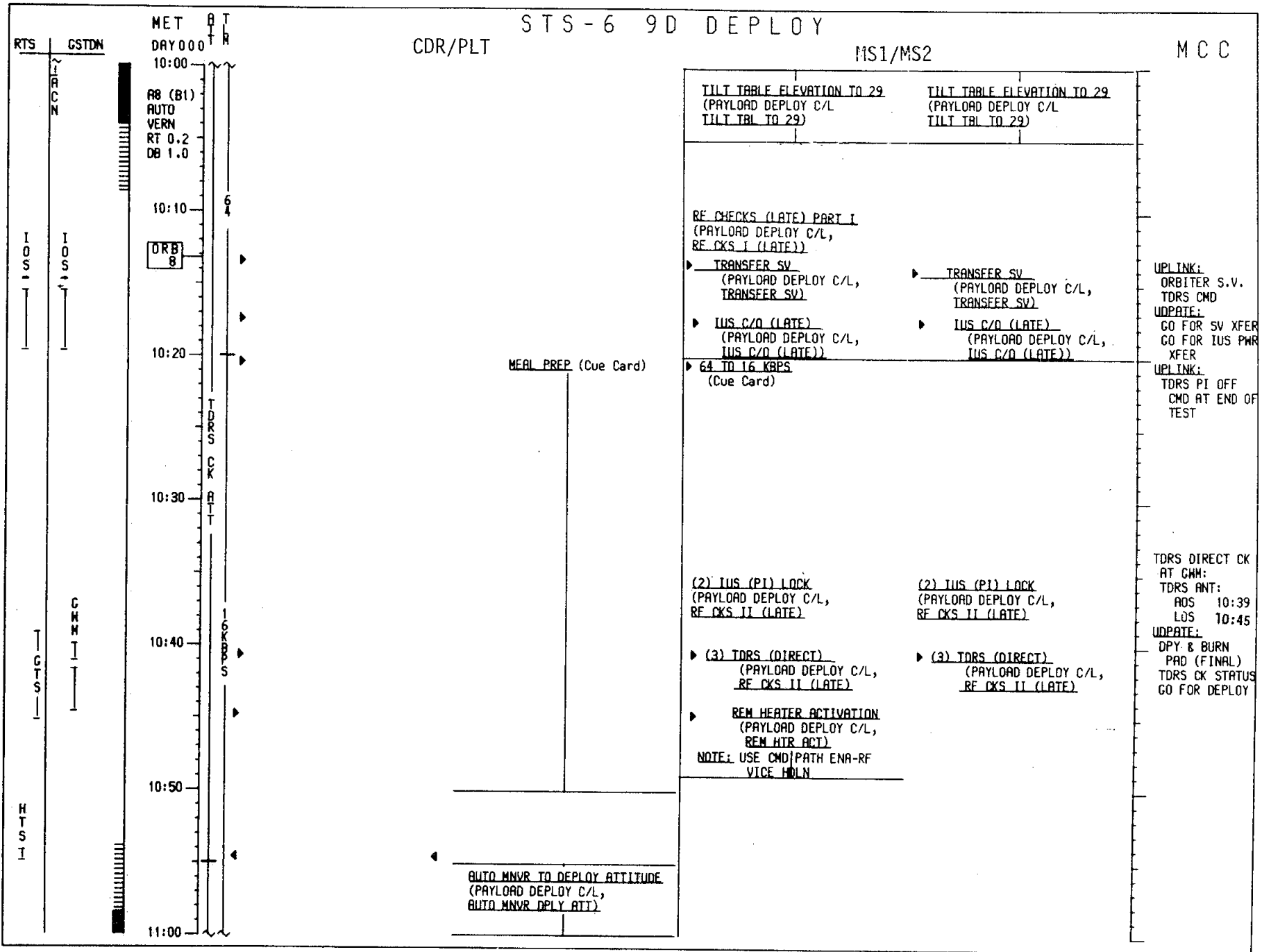
GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE									
090:18:30/ 091:06:30		001:00:00/ 001:12:00		090:12:30/ 091:00:30		02/ 090	GMT -23.7		MARCH 31, 1983	STS 6	FINAL REV A	3/25/83									
GMT :090 FD :02 MET :001		19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	12		
90 TIMELINE																					
CDR	TPR MSG REVIEW	NEAL	I U M N V R	Z L V M N V R																	
PLT	TPR MSG REVIEW	NEAL	HK	S Y D S	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> RETURN TO NOMINAL 80 TIMELINE AT 17:2:00 - THE FOLLOWING ACTIVITY SHOULD BE SCHEDULED IF TIME PERMITS: - MS1: EXERCISE (1 HR) </div>																
MS1	TPR MSG REVIEW	NEAL																			
MS2	TPR MSG REVIEW	NEAL	A R S E N S I V E	HK																	
DAY/NIGHT		ORBIT		17		18		19		20		21		22		23		24			
CSTDN COVERAGE		SGLS COVERAGE		TV		DEORB EDW		NOR		ATTITUDE		MNVR		EXPT		TLN					
CDX -BOT CDX -NLX BDA -DAR DAR -ACN		-VTS -NHS		00:47 00:49		-YAR -HAW -CDX -GDS -NLX -ACN -BOT -YAR -CMM -HAM -NLX -ACN -BOT		02:22 02:25		-GTS -HTS -GTS -HTS		-GTS -HTS -GTS -HTS		-BOT -IOS -CMM -HAM -ACN -BOT -IOS -HTS -GTS		-BOT -IOS -CMM -HAM -ACN -BOT -IOS -HTS -GTS		-GMM -HAM -AGO -ACN -GMM -AGO -ACN			
-VTS -NHS		-HTS				-GTS -HTS		-GTS -HTS		-IOS -GTS		-IOS -GTS		-IOS -GTS		-IOS -GTS		-GTS			
-ZLV NOSE 1ST		IMU		-ZLV																	
NOTES:		<ul style="list-style-type: none"> ● VRCS ● DTO 602 CABIN ATMOSPHERE VERF ● CHANGEDOUT ● Y-POP (NOSE FWD) 																			











CDR/PLT STS-6 9D DEPLOY

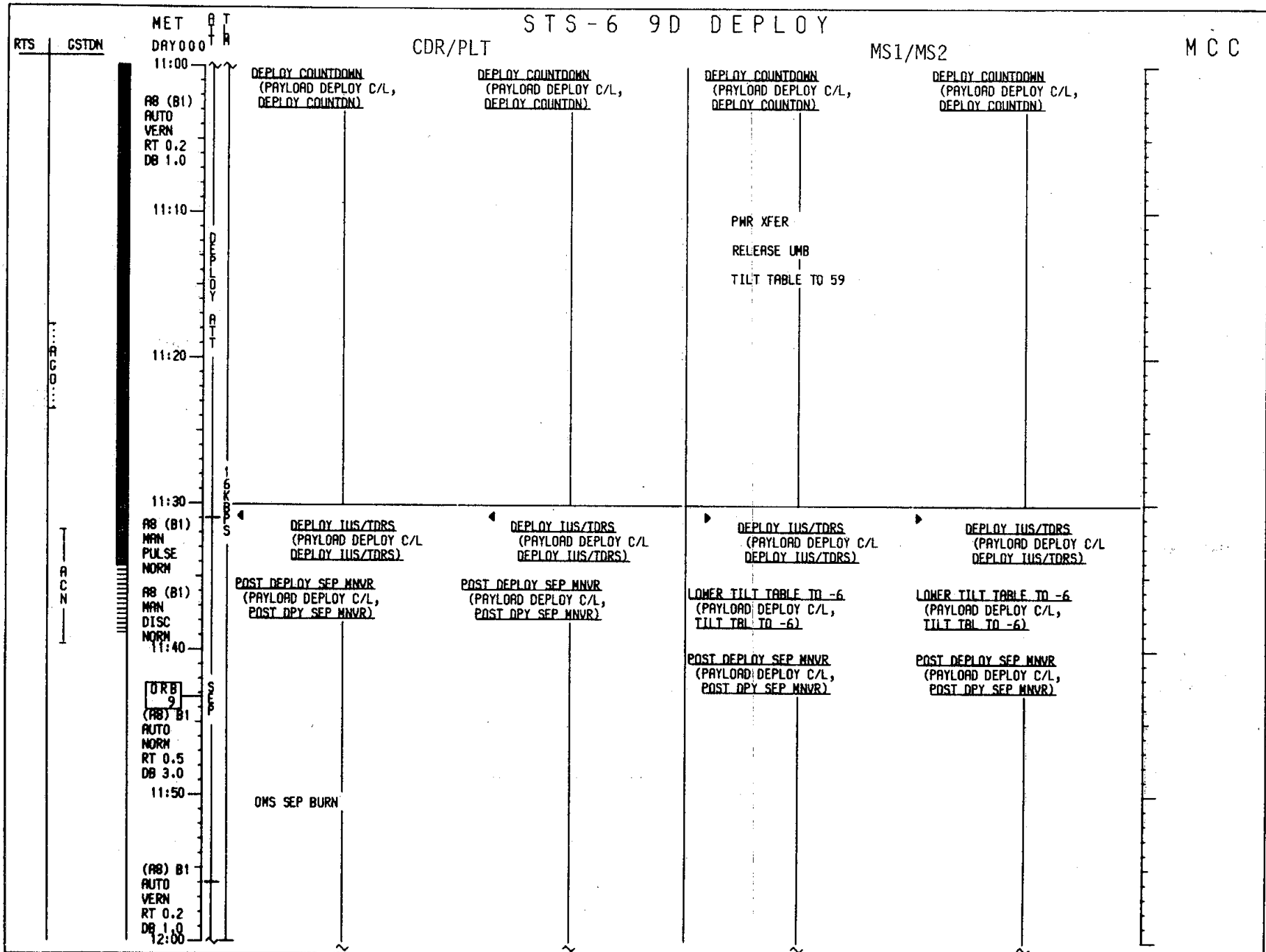
MS1/MS2

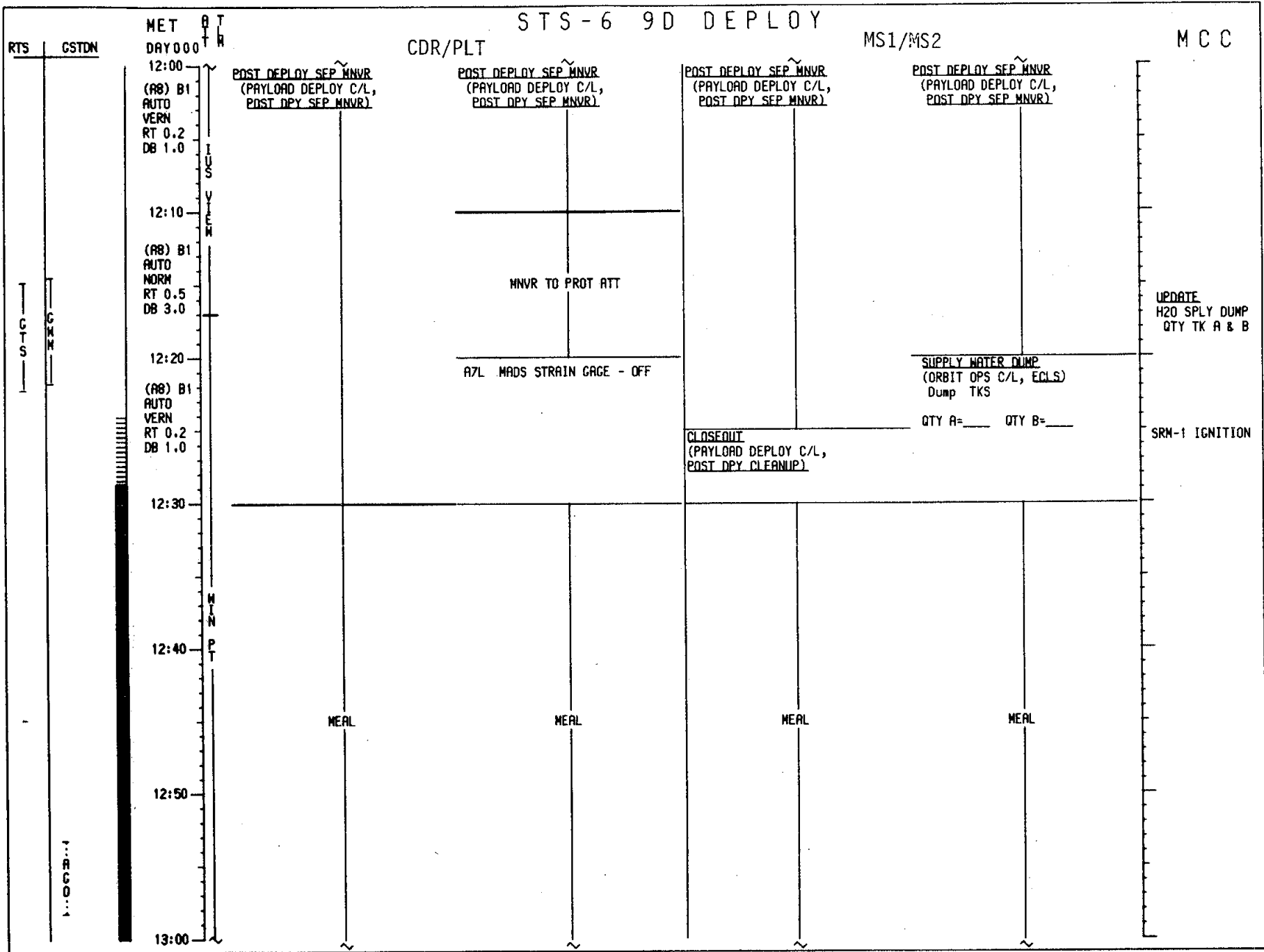
MCC

TILT TABLE ELEVATION TO 29 (PAYLOAD DEPLOY C/L TILT TAB TO 29)	TILT TABLE ELEVATION TO 29 (PAYLOAD DEPLOY C/L TILT TAB TO 29)
<p>RE CHECKS (LATE) PART I (PAYLOAD DEPLOY C/L, RE CKS I (LATE))</p> <p>▶ TRANSFER SV (PAYLOAD DEPLOY C/L, TRANSFER SV)</p> <p>▶ IUS C/O (LATE) (PAYLOAD DEPLOY C/L, IUS C/O (LATE))</p>	<p>▶ TRANSFER SV (PAYLOAD DEPLOY C/L, TRANSFER SV)</p> <p>▶ IUS C/O (LATE) (PAYLOAD DEPLOY C/L, IUS C/O (LATE))</p>
<p>▶ 64 TO 16 KBPS (Cue Card)</p>	
<p>(2) IUS (PI) LOCK (PAYLOAD DEPLOY C/L, RE CKS II (LATE))</p> <p>▶ (3) TDRS (DIRECT) (PAYLOAD DEPLOY C/L, RE CKS II (LATE))</p> <p>▶ REM HEATER ACTIVATION (PAYLOAD DEPLOY C/L, REM HTR ACT)</p> <p>NOTE: USE CMD/PATH ENA-RF VICE HOLN</p>	<p>(2) IUS (PI) LOCK (PAYLOAD DEPLOY C/L, RE CKS II (LATE))</p> <p>▶ (3) TDRS (DIRECT) (PAYLOAD DEPLOY C/L, RE CKS II (LATE))</p>
<p>AUTO MNVR TO DEPLOY ATTITUDE (PAYLOAD DEPLOY C/L, AUTO MNVR DPLY ATT)</p>	

UPLINK:
ORBITER S.V.
TDRS CMD
UPDATE:
GO FOR SV XFER
GO FOR IUS PWR
XFER
UPLINK:
TDRS PI OFF
CMD AT END OF
TEST

TDRS DIRECT CK
AT CWM:
TDRS ANT:
ROS 10:39
LOS 10:45
UPDATE:
DPY & BURN
PAD (FINAL)
TDRS CK STATUS
GO FOR DEPLOY





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IMU ALIGN LOG

REQD ID: -Y ___ -Z ___ ANG ERR ___ . ___

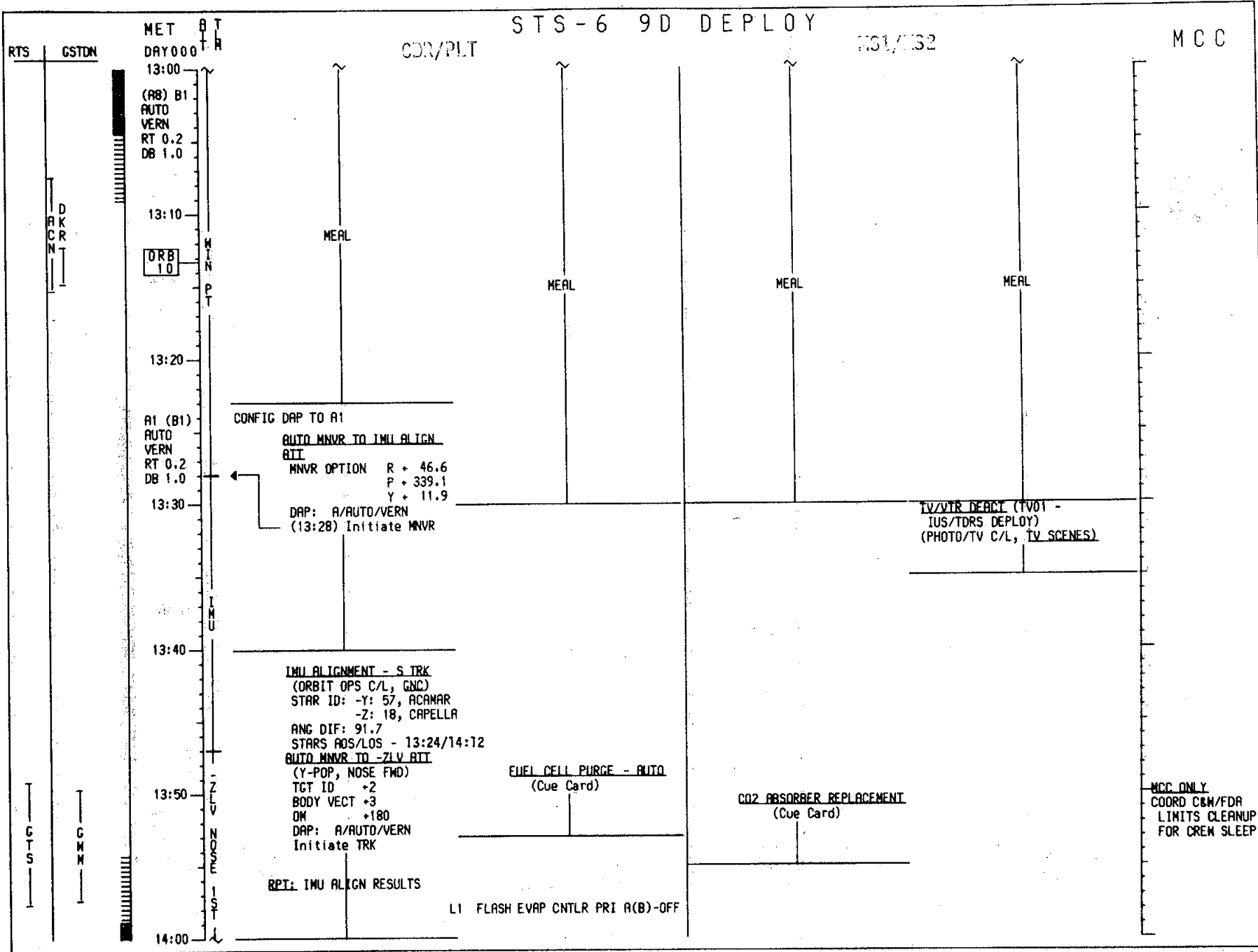
ANG

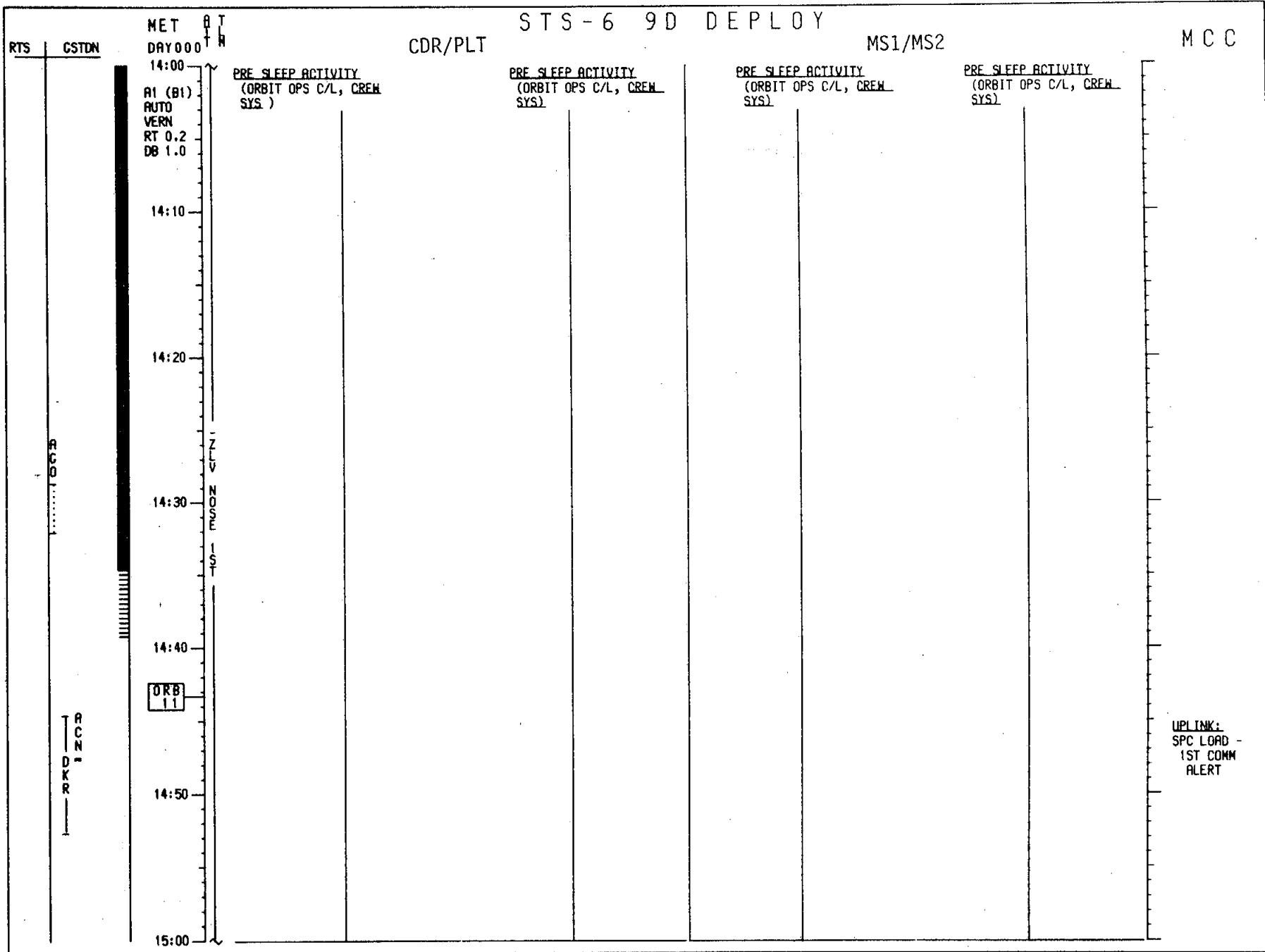
& X () ___ . ___ () ___ . ___ () ___ . ___

& Y () ___ . ___ () ___ . ___ () ___ . ___

& Z () ___ . ___ () ___ . ___ () ___ . ___

EXECUTION TIME: ___ / ___ : ___ : ___





STS-6 9D DEPLOY

CDR/PLT

MS1/MS2

MCC

MET DAY 000

14:00
14:10
14:20
14:30
14:40
14:50
15:00

PRE SLEEP ACTIVITY
(ORBIT OPS C/L, CREW SYS)

PRE SLEEP ACTIVITY
(ORBIT OPS C/L, CREW SYS)

PRE SLEEP ACTIVITY
(ORBIT OPS C/L, CREW SYS)

PRE SLEEP ACTIVITY
(ORBIT OPS C/L, CREW SYS)

RTS CSTDN

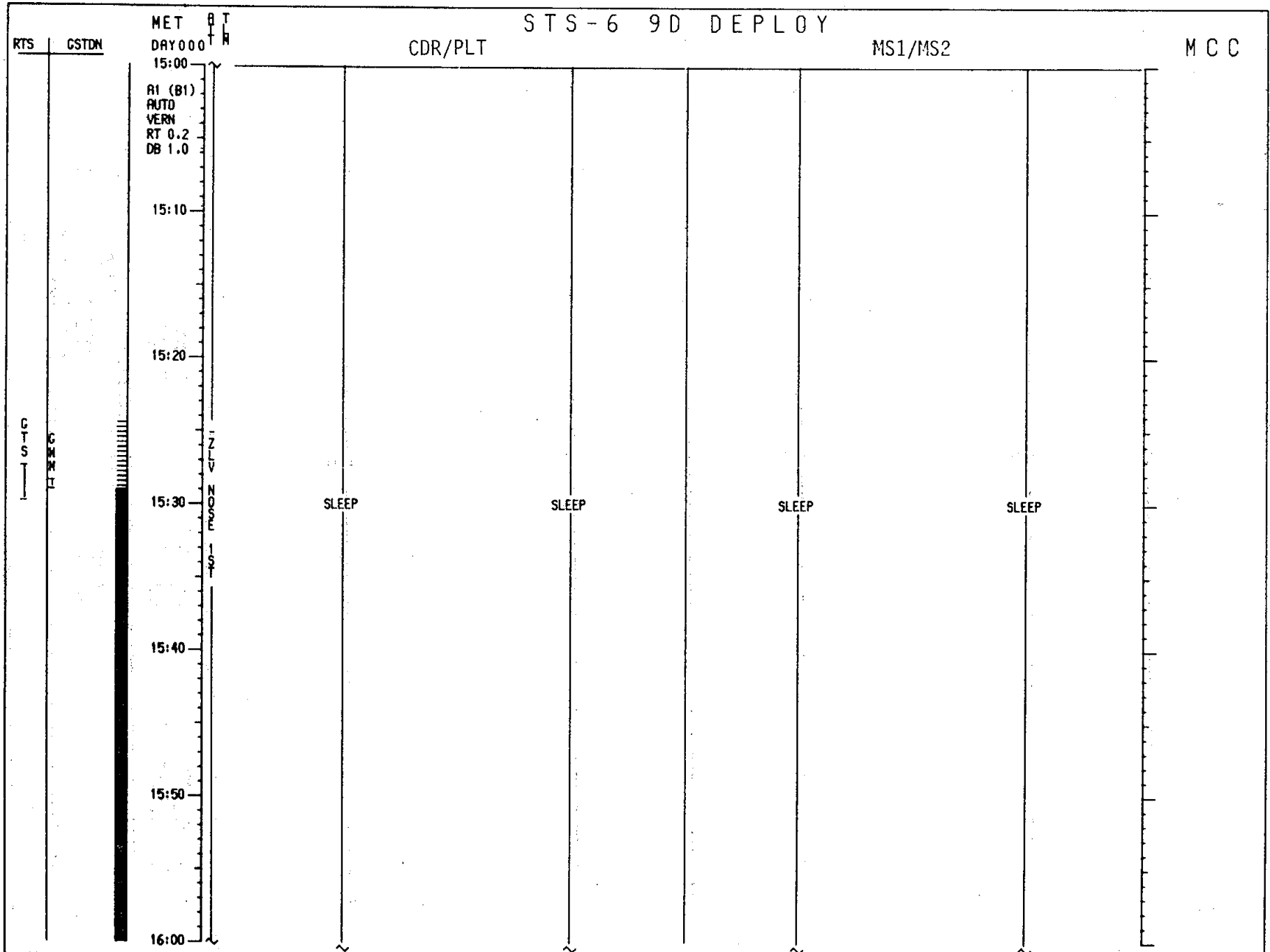
R1 (B1)
AUTO
VERN
RT 0.2
DB 1.0

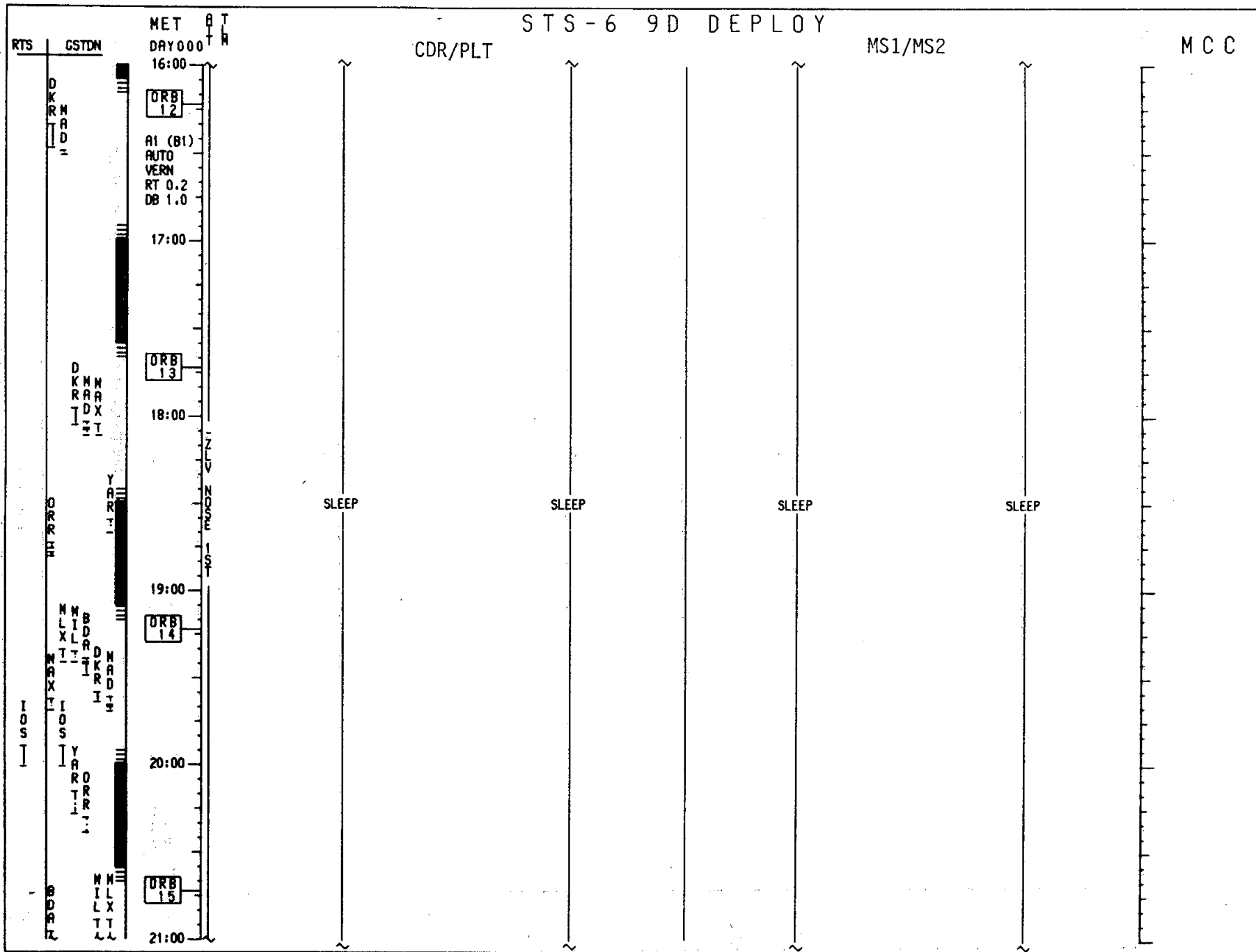
15:00

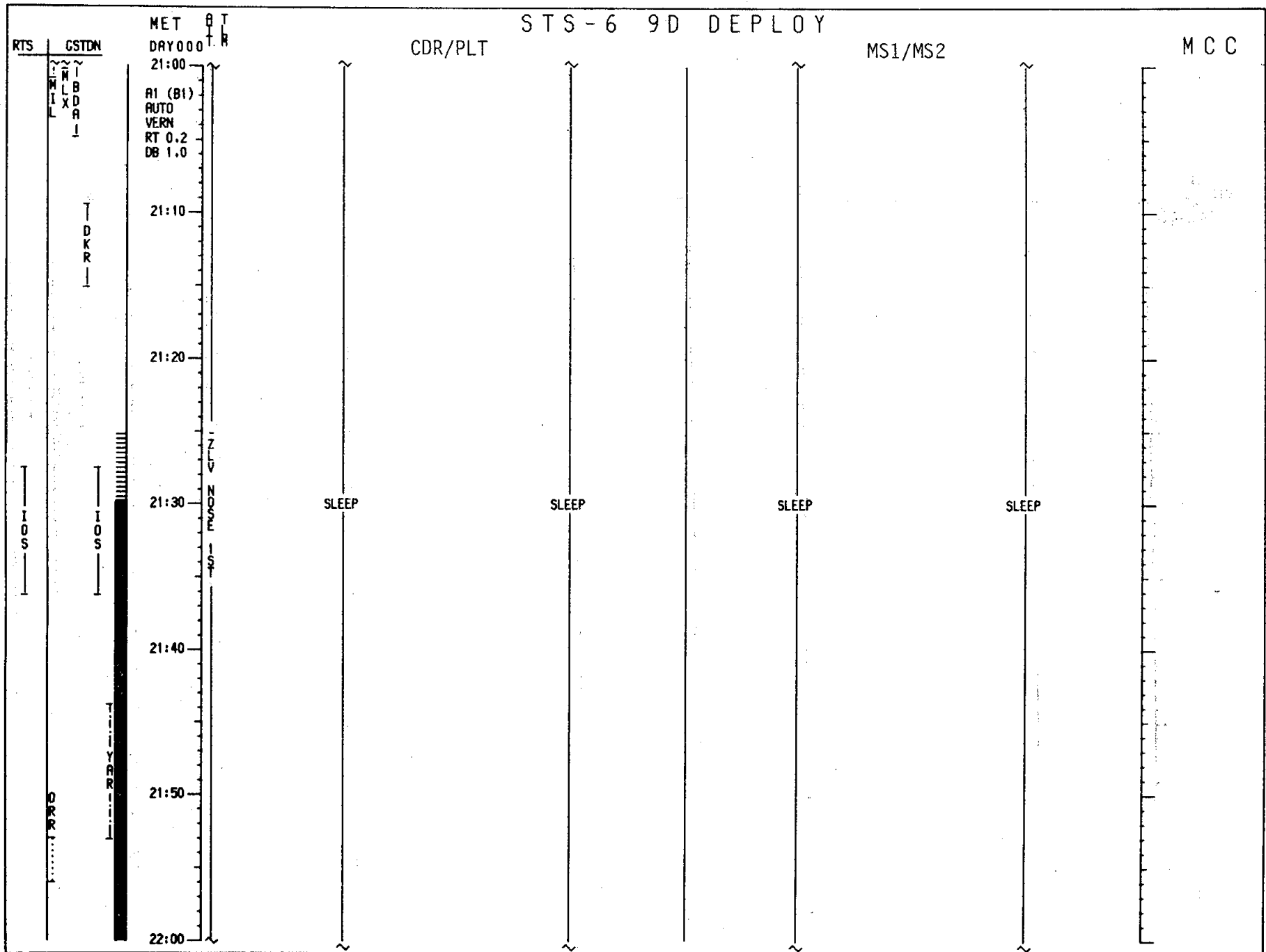
RKD
IZCB

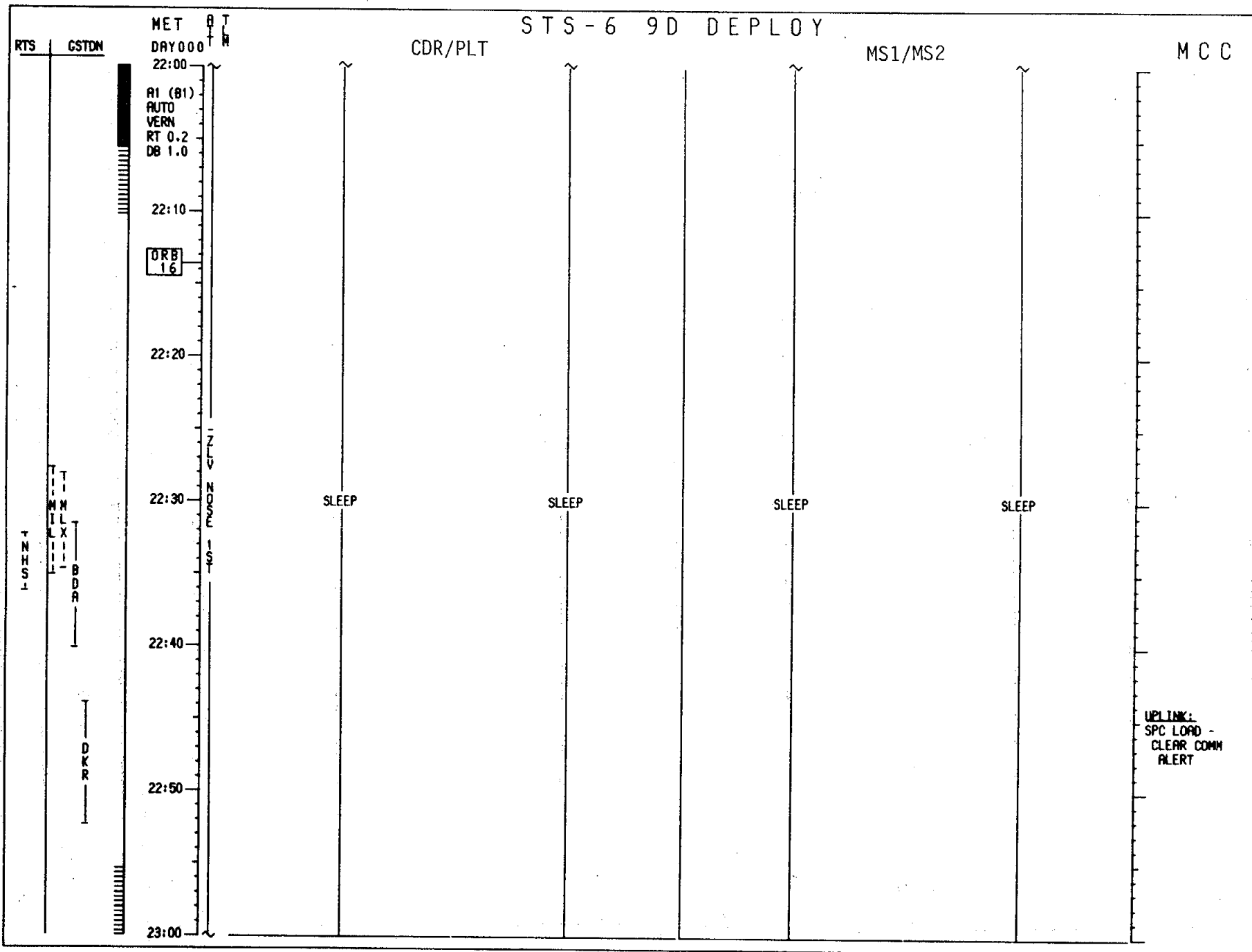
ORB
11

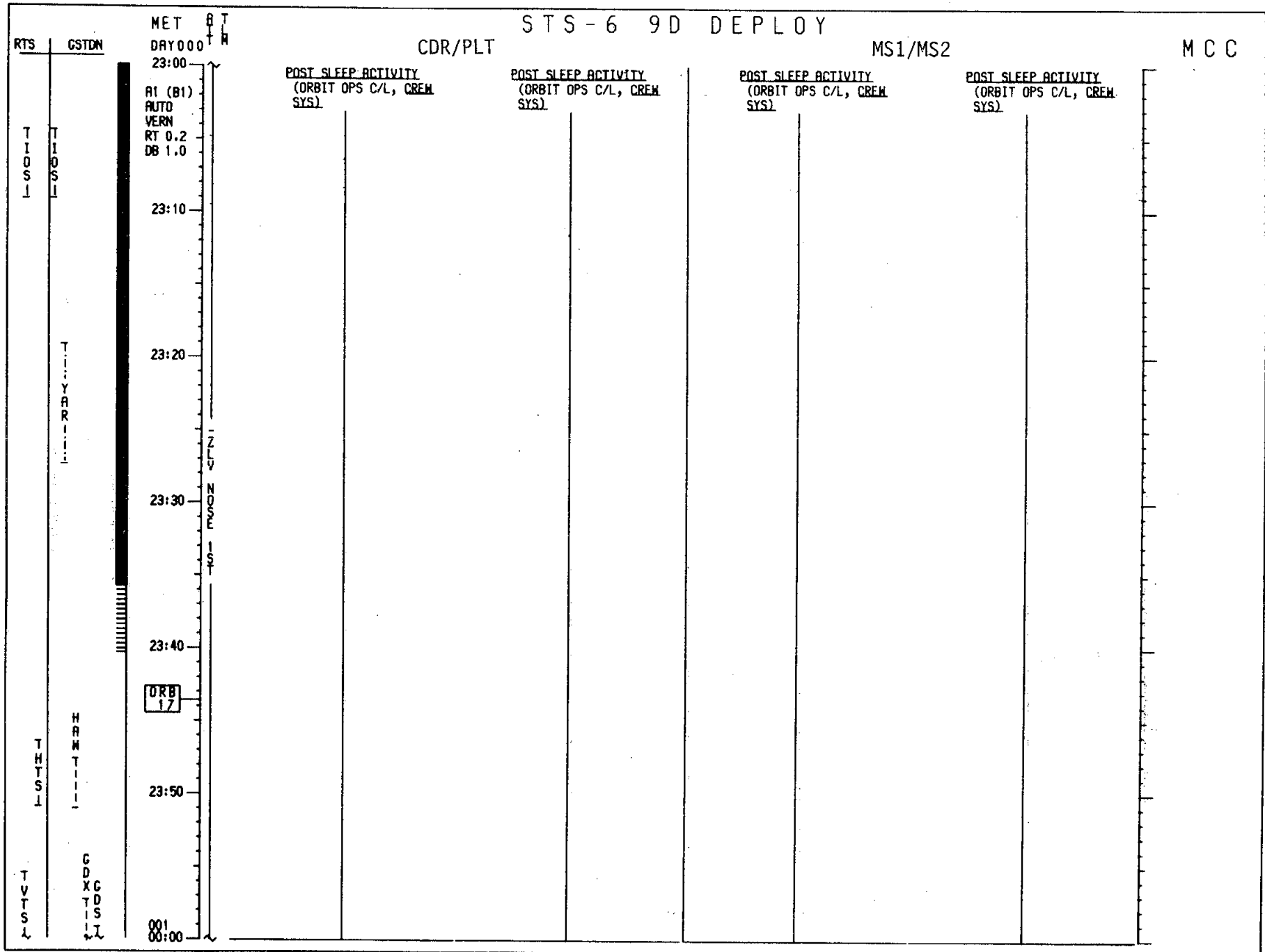
UPLINK:
SPC LOAD -
1ST COMM
ALERT



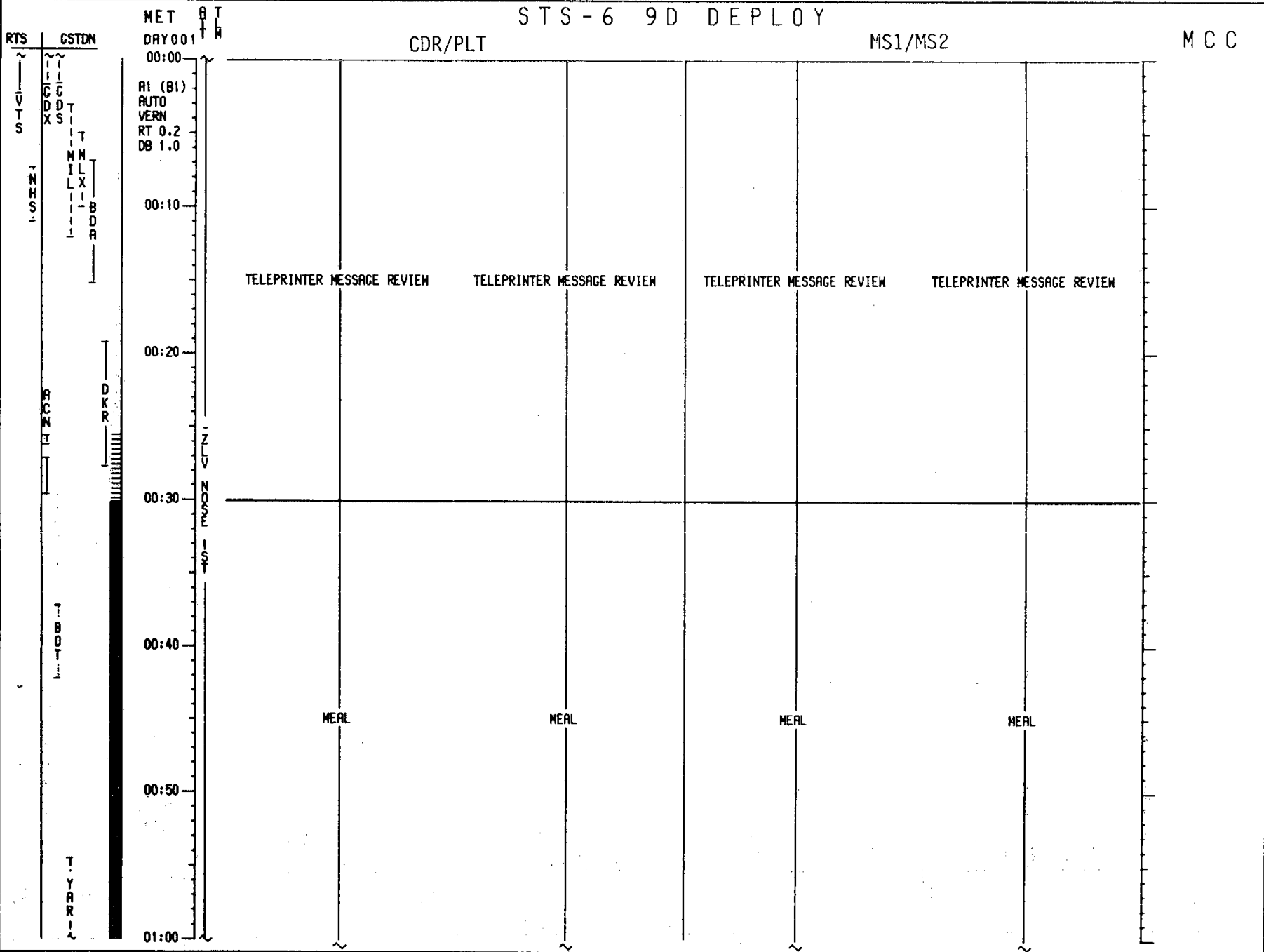








STS-6 9D DEPLOY



RT (81)
AUTO
VERN
RT 0.2
DB 1.0

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IMU ALIGN LOG

REQD ID: -Y ___ -Z ___ ANG ERR ___ . ___

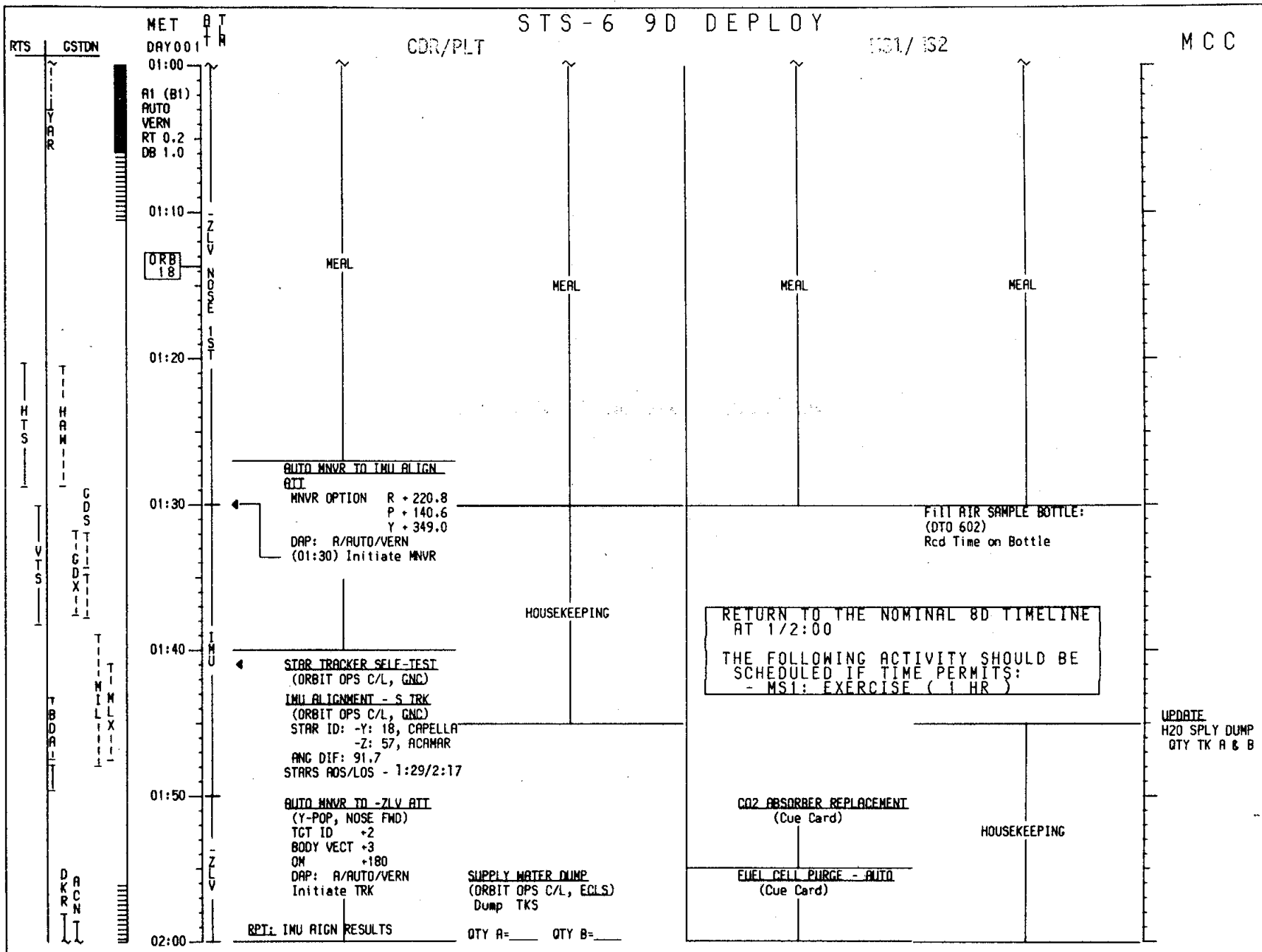
ANG

A X () ___ . ___ () ___ . ___ () ___ . ___

A Y () ___ . ___ () ___ . ___ () ___ . ___

A Z () ___ . ___ () ___ . ___ () ___ . ___

EXECUTION TIME: ___ / ___ : ___ : ___



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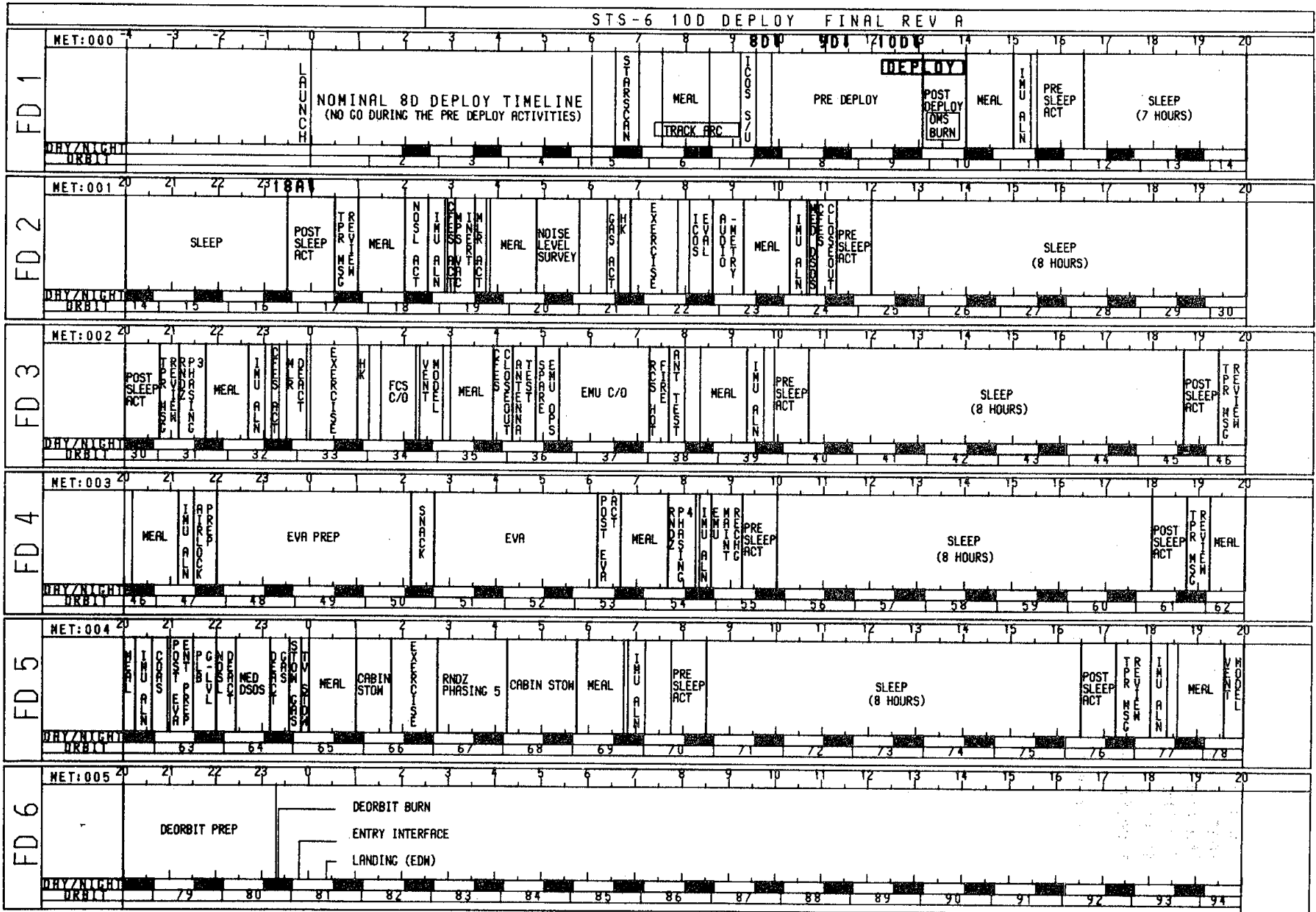
10D DEPLOYMENT

The 10D Deployment Timeline is designed to accommodate delaying deployment to the 10D opportunity prior to starting the predeploy activities. The nominal timeline is used up to 06:00 MET. A starscan is included for the thermal pwrn case (if required). All nominal deployment activities are included. The Late IUS/TDRS checks are scheduled at the last acceptable RTS/STDN site. Additional assumptions are shown on page 5B-3.

This timeline is based on the 18A (cycle 3 updated) flight profile.

10D DEPLOYMENT

TOD DEPLOYMENT



GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
089:18:30 / 090:06:30		000:00:00 / 000:12:00		089:12:30 / 090:00:30		01 / 089 GMT	-22.9		MARCH 30, 1983	STS 6	FINAL REV A	3/25/83	
GMT : 089		19		20		21		22		23		100 TIMELINE	
FD : 01													
MET : 000		0		1		2		3		4		5	
CDR													
PLT		THIS 100 TIMELINE MAKES THE FOLLOWING ASSUMPTIONS: - THE NOMINAL 8D TIMELINE IS USED UP TO 07:00 - THE 16MM & 70MM ACTIVITIES WERE NOT PERFORMED - THE TRACKING ARC ACTIVITY WAS NOT INITIATED - THE ORBITER IS IN THE -ZLV NOSE 1ST ATTITUDE - A STARSCAN IS INCLUDED FOR THE THERMAL PWRDN CASE (IF 8D SCAN IS NOT SUCCESSFUL) NEED TO GO TO 64 KBPS (16KBPS) BEFORE(AFTER) THE SCAN											
MS1		- THE TRACKING ARC IS FROM GWM (7:25) TO HAW (9:20) - THE SV TO IUS AND IUS C/O ACTIVITIES ARE SCHEDULED OVER IOS - THE IUS RF (OVER GTS) AND TDRS DIRECT (OVER GWM) ARE PERFORMED AT THE LAST ACCEPTABLE SITE; THEREFORE, NO BACKUP SITE - THIS TIMELINE TRANSITIONS BACK TO THE NOMINAL 8D AT 17:00											
MS2													
DAY/NIGHT													
ORBIT		2		3		4		5		6		7	
GSTDN COVERAGE		-YAR -HAW -DKR -ACN -BOT		-GDX -MIL -BDA -ACN		-HAW -GDX -CDS -MLX -ACN		-GWM -HAW		-BOT -IOS -GWM -HAW		-GWM -ACN	
SGLS COVERAGE		-HTS -VTS		-HTS -VTS		-HTS -VTS		-HTS -VTS		-GTS -HTS		-GTS -HTS	
TV DEORB EDW		↑ 00:43		↑ 02:19		↑ 03:54		↑ TV					
NDR		↑ 00:46		↑ 02:21		↑ 03:56							
ATTITUDE								-ZLV NOSE 1ST		TRK -ZLV NOSE 1ST		-ZLV (NOSE) TDRS CK ATT	
MNVRS													
EXPT TLM													
NOTES:												<ul style="list-style-type: none"> • PRCs • BACKUP STARSCAN IF THERMAL PWRDN OCCURRED • START TRACKING (GWM) • DTD 768 ICOS SETUP IUS DIRECT(GTS) • TDRS CK ATT (PRCS) • PI LOCK ON FOR DPY 	

GMT (D:H:M)		MET (D:H:M)		CST (D:H:M)		FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
090:06:30 / 090:18:30		000:12:00 / 001:00:00		090:00:30 / 090:12:30		01 / 090	GMT -23.3		MARCH 31, 1983	STS 6	FINAL REV A	3/25/83
10D TIMELINE												
												FD:02 0
CDR		10	11	12	13	14	15	16	17	18	19	20
PLT		10	11	12	13	14	15	16	17	18	19	20
MS1		10	11	12	13	14	15	16	17	18	19	20
MS2		10	11	12	13	14	15	16	17	18	19	20
DAY/NIGHT												
ORBIT												
GSTDN COVERAGE												
SGLS COVERAGE												
TV												
DEORB EDW												
NOR												
ATTITUDE												
MNVR												
EXPT												
TLN												
NOTES:												

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
090:18:30 / 091:06:30	001:00:00 / 001:12:00	090:12:30 / 091:00:30	02 / 090 GMT	-23.7	☉	MARCH 31, 1983	STS 6	FINAL REV A	3/25/83
GMT :090	19	20	21	22	23	2	3	4	5
FD :02									
MET :001	0	2	3	5	6	7	8	9	10
TOD TIMELINE									
CDR	POST SLEEP ACT	TPR MSG REVIEW	MEAL	MEAL PREP	CFES STAT	CFES STAT	CFES STAT	CFES STAT	CFES STAT
PLT	POST SLEEP ACT	TPR MSG REVIEW	MEAL	NO SL ACT	CFES STAT	CFES STAT	CFES STAT	CFES STAT	CFES STAT
MS1	POST SLEEP ACT	TPR MSG REVIEW	MEAL	CFES STAT	CFES STAT	CFES STAT	CFES STAT	CFES STAT	CFES STAT
MS2	POST SLEEP ACT	TPR MSG REVIEW	MEAL	CFES STAT	CFES STAT	CFES STAT	CFES STAT	CFES STAT	CFES STAT
DAY/NIGHT	[Day/Night Cycle]								
ORBIT	17	18	19	20	21	22	23	24	
GSTDN COVERAGE	CDX -BOT -NLX -BDR	-YAR -HAM -CDX -DKR -ACN	-BDH -DKR -BOT -YAR -GMM -HAM -NLX	--GDS -CDX -NLX -ACN -BOT -GMM -HAM	-HAM -CDX -GDS -BOT -IOS -GMM -HAM	-BOT -IOS -GMM -HAM -ACO -BOT -IOS	-GMM -HAM -ACO -BOT -IOS -GMM -HAM	-ACO -ACN -BOT -IOS -GMM -HAM	-GMM -ACO -ACN
SGLS COVERAGE	VTS -NHS	-VTS -HTS	-VTS -GTS -HTS	-VTS -GTS -HTS	-VTS -GTS -HTS	-VTS -GTS -HTS	-VTS -GTS -HTS	-VTS -GTS -HTS	-VTS -GTS -HTS
TV									
DEORB EDW		↑ 00:47	↑ 02:22	↑ 03:57					
NOR		↑ 00:49	↑ 02:25						
ATTITUDE		-ZLV NOSE 1ST	IMU	-ZLV NOSE 1ST					
MNVR									
EXPT			CFES						
TLN									
NOTES:	<ul style="list-style-type: none"> ● DTD 602 CABIN ATMOSPHERE VERF ● VRCS ● CHANGEOUT ● Y-POP (NOSE FWD) ◇ RCS REG RECONFIG 								

RETURN TO NOMINAL 8D TIMELINE AT 17:30:00
 - THE FOLLOWING ACTIVITIES SHOULD BE SCHEDULED IF TIME PERMITS:
 - MS1: EXERCISE (1 HR)
 - CDR: NO SL OPPORTUNITY
 - PLT, MS1, MS2: HR (15 MIN)

RTS CSTDN

MET BT
DAY 000
06:00

STS-6 10D DEPLOY

CDR/PLT

MS1/MS2

MCC

HTS

VTS

1800

(A7)B1
AUTO
VERN
RT 0.2
DB 1.0

TURN OFF THE FES IF A 10D
STARSCAN IS TO BE PERFORMED:
LI FLASH EVAP CNTLR PRI A(B)-OFF

REFER TO THE 10D SUMMARY T/L FOR THE ASSUMPTIONS

IF A THERMAL PWRDWN OCCURRED & THE
8D SCAN WAS NOT SUCCESSFUL, THE
STARSCAN CAN BE REPEATED VIA THIS
TIMELINE

IF PERFORMED, NEED TO GO TO 64KBPS
BEFORE THE SCAN AND 16KBPS AFTER
THE SCAN

THE DAP CODES WILL NOT REFLECT THE
STARSCAN ACTIVITY

NOTE: LIVE TV &
PLB CAMERAS
GND CONTROLLED

06:10
06:20
06:30
06:40
06:50
07:00

1600
1400
1200
1000
800
600
400
200

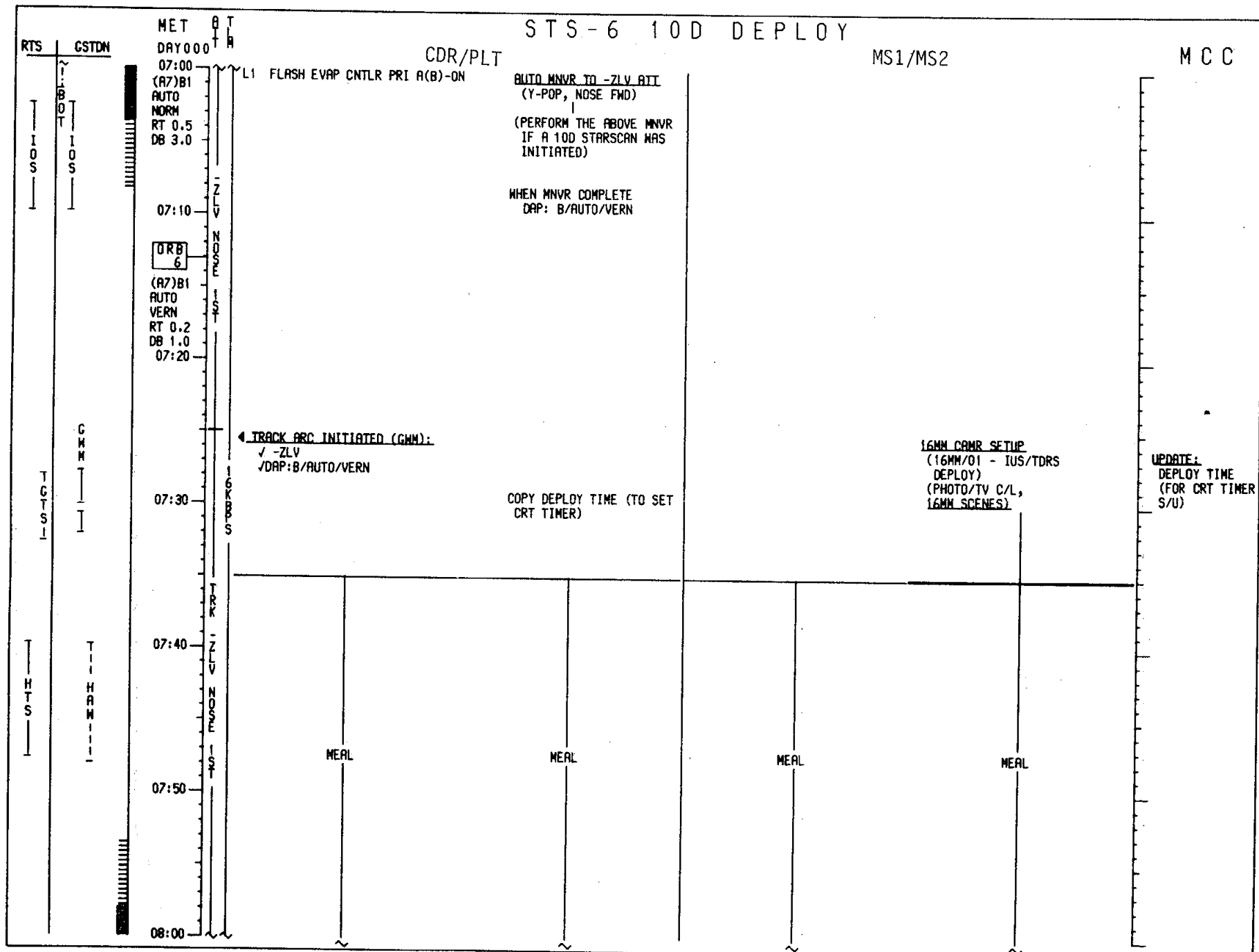
◀ ATTITUDE ALIGNMENT
(PAYLOAD DEPLOY C/L,
ATT ALIGN)

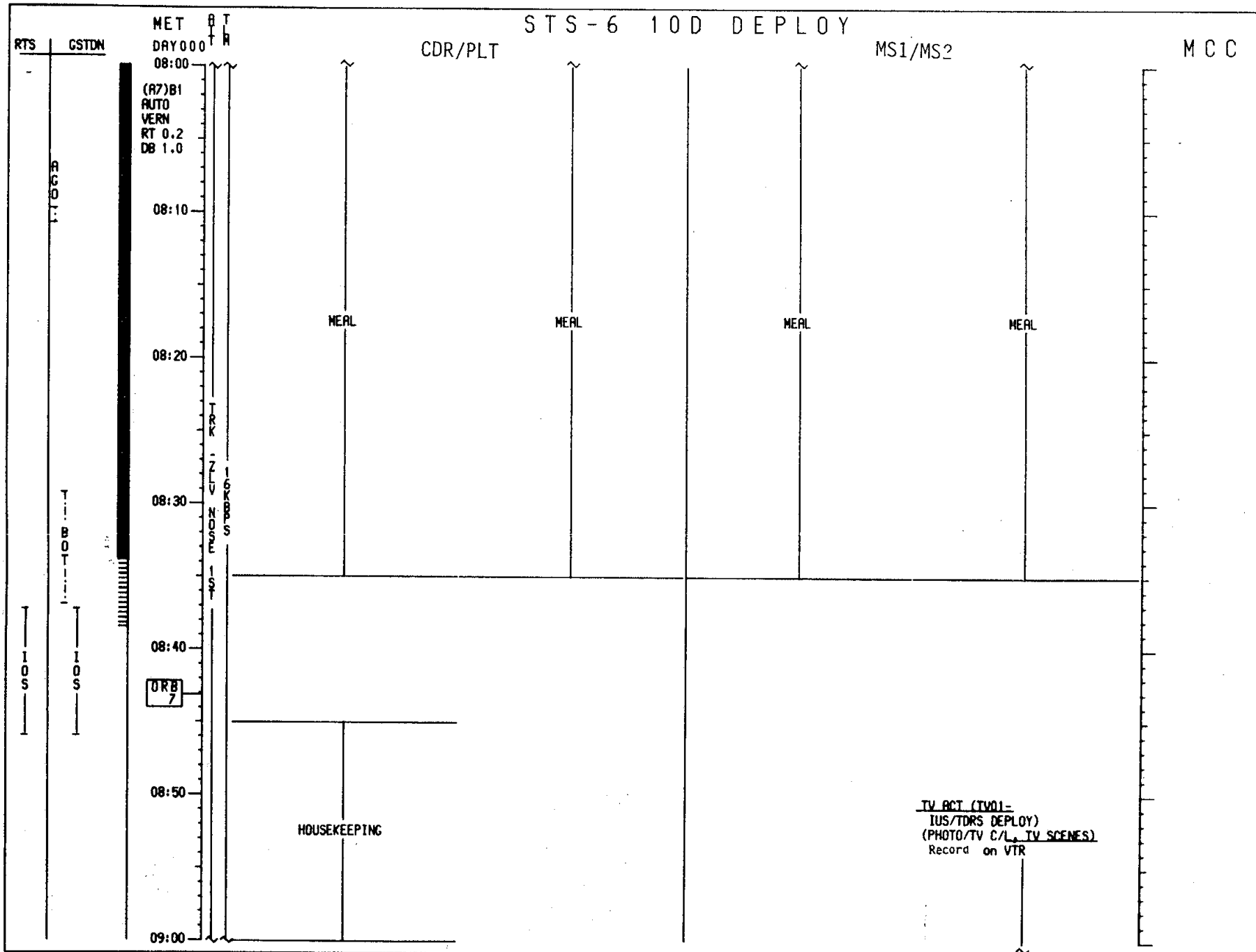
◀ ATTITUDE ALIGNMENT
(PAYLOAD DEPLOY C/L,
ATT ALIGN)

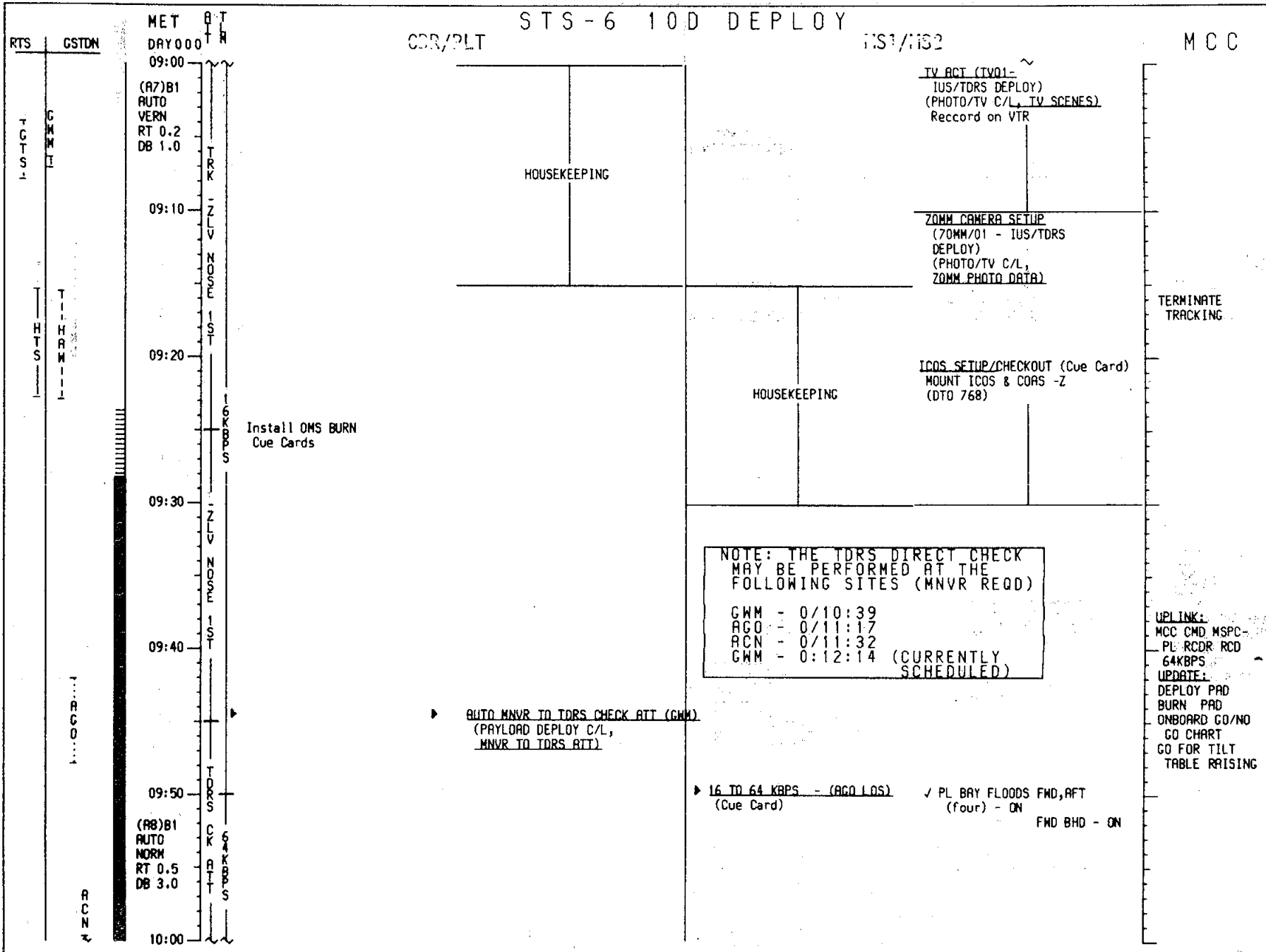
▶ ATTITUDE ALIGNMENT
(PAYLOAD DEPLOY C/L,
ATT ALIGN)

▶ ATTITUDE ALIGNMENT
(PAYLOAD DEPLOY C/L,
ATT ALIGN)

TV





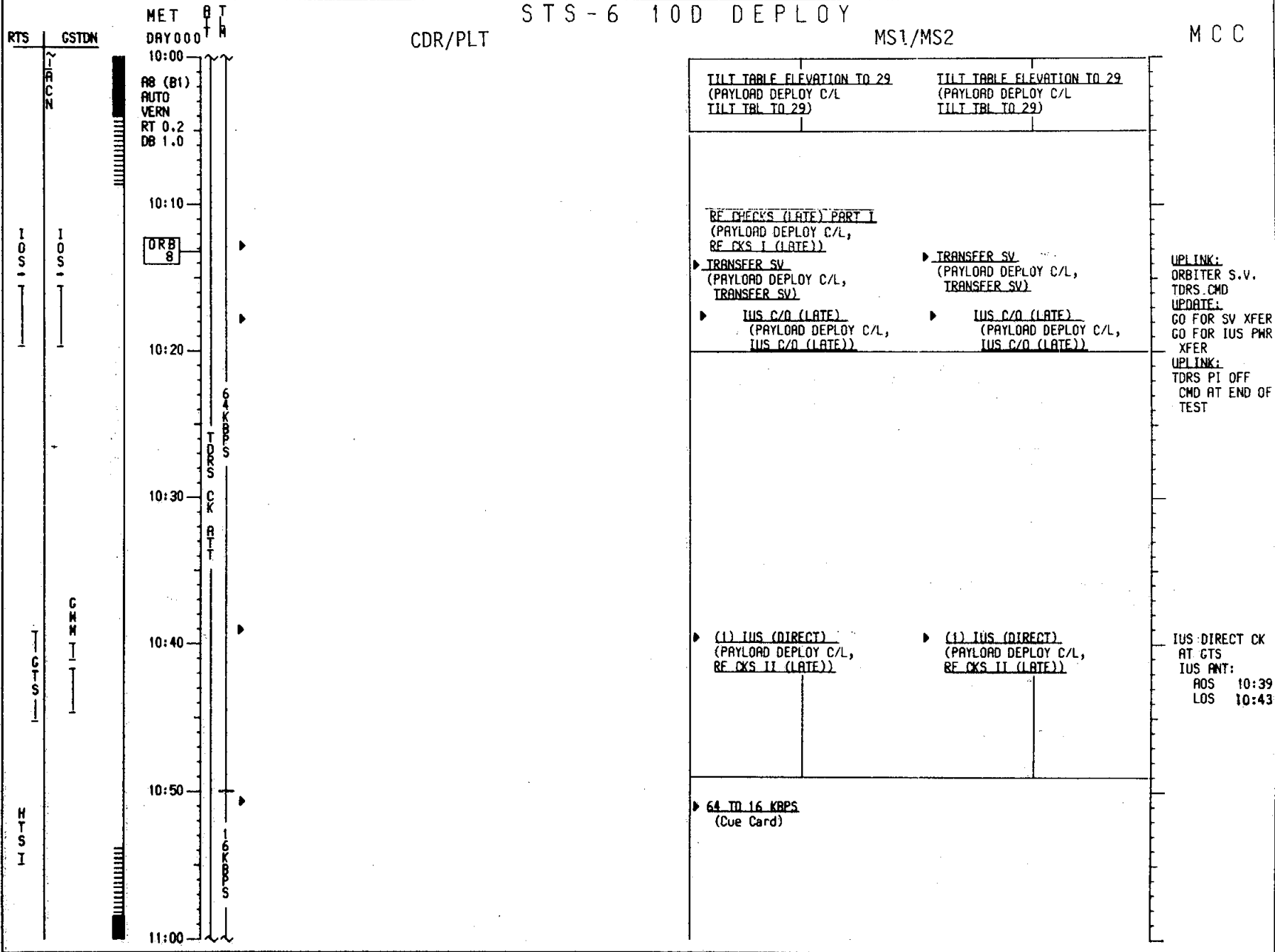


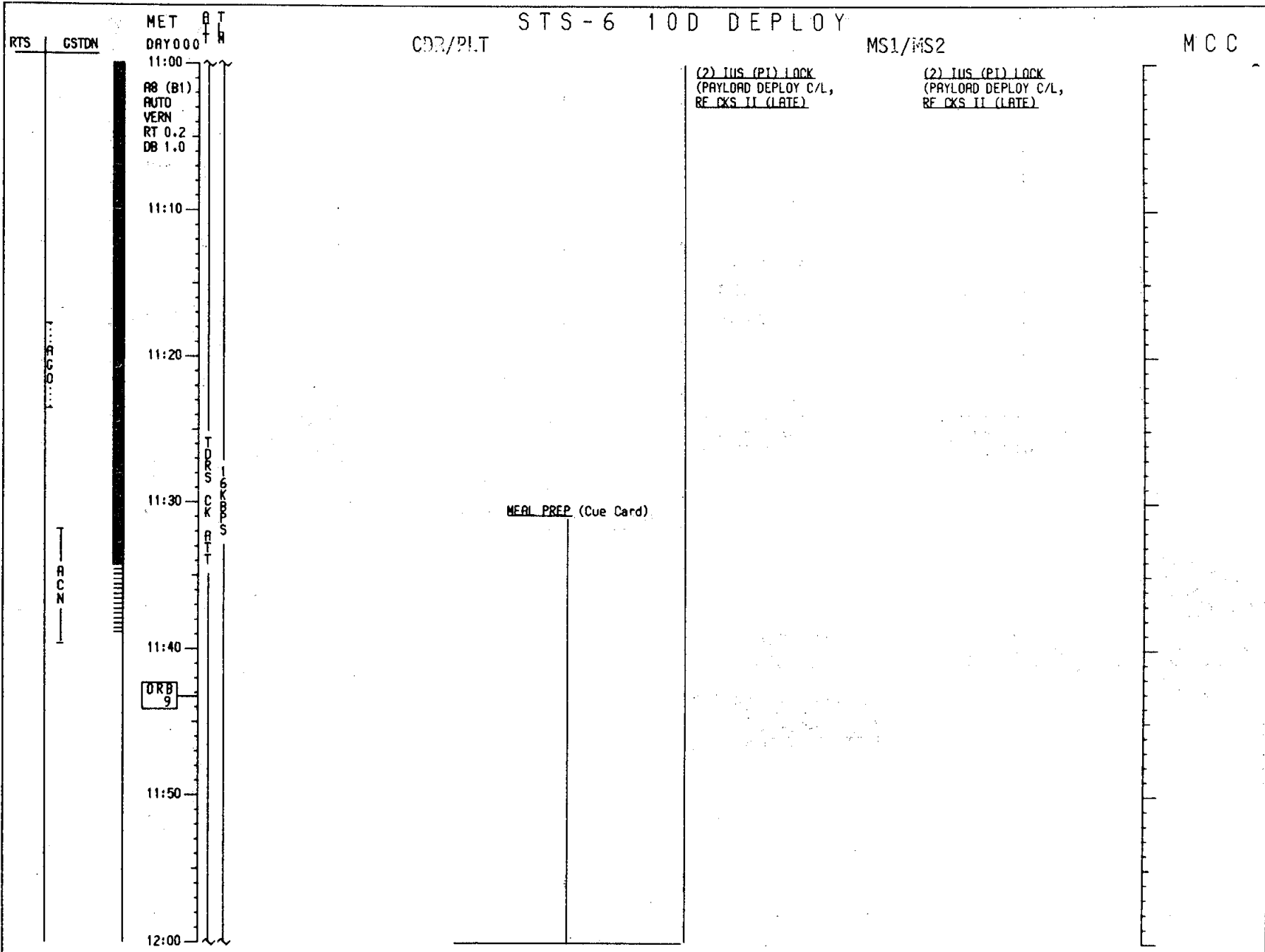
STS-6 10D DEPLOY

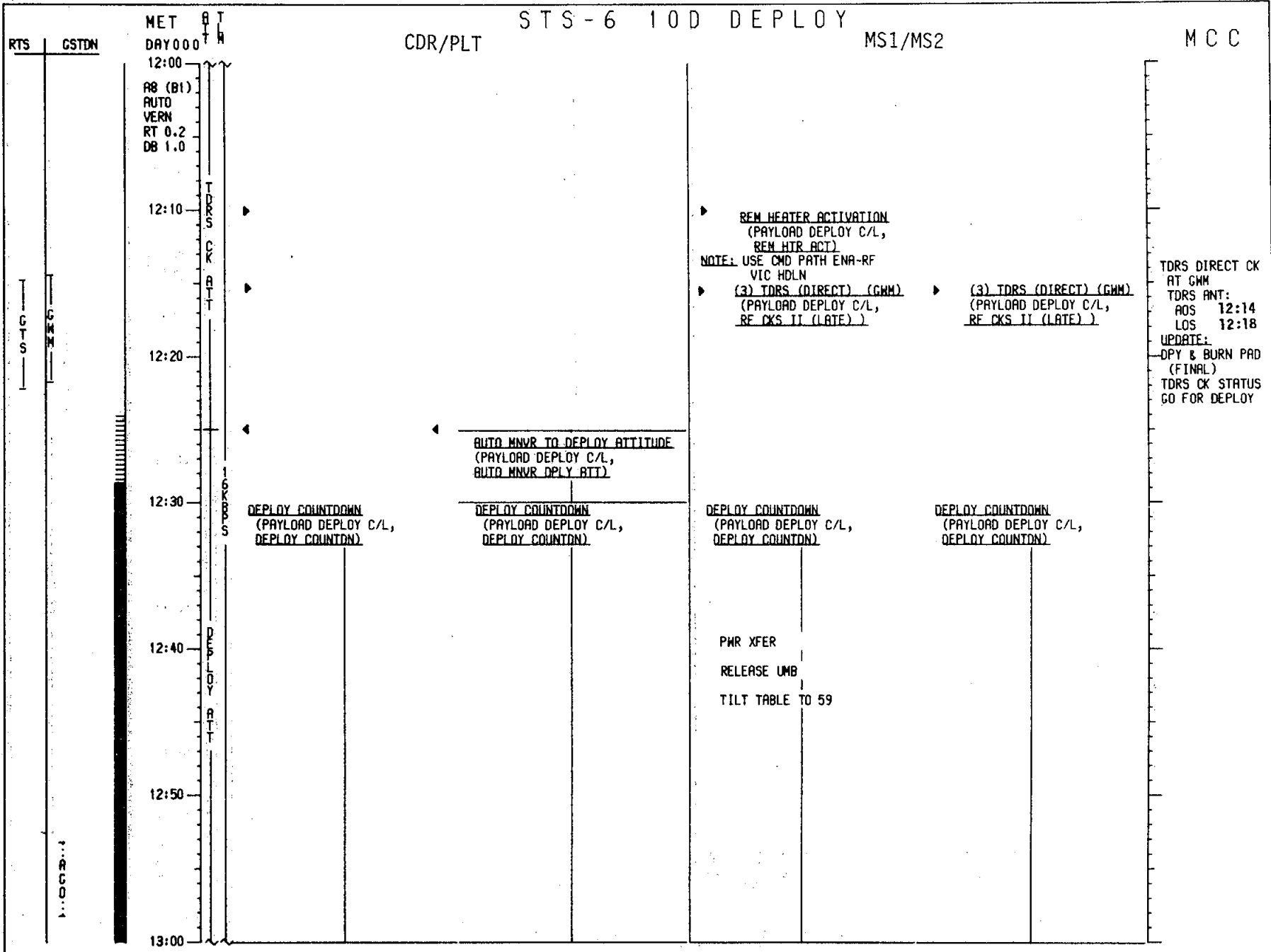
CDR/PLT

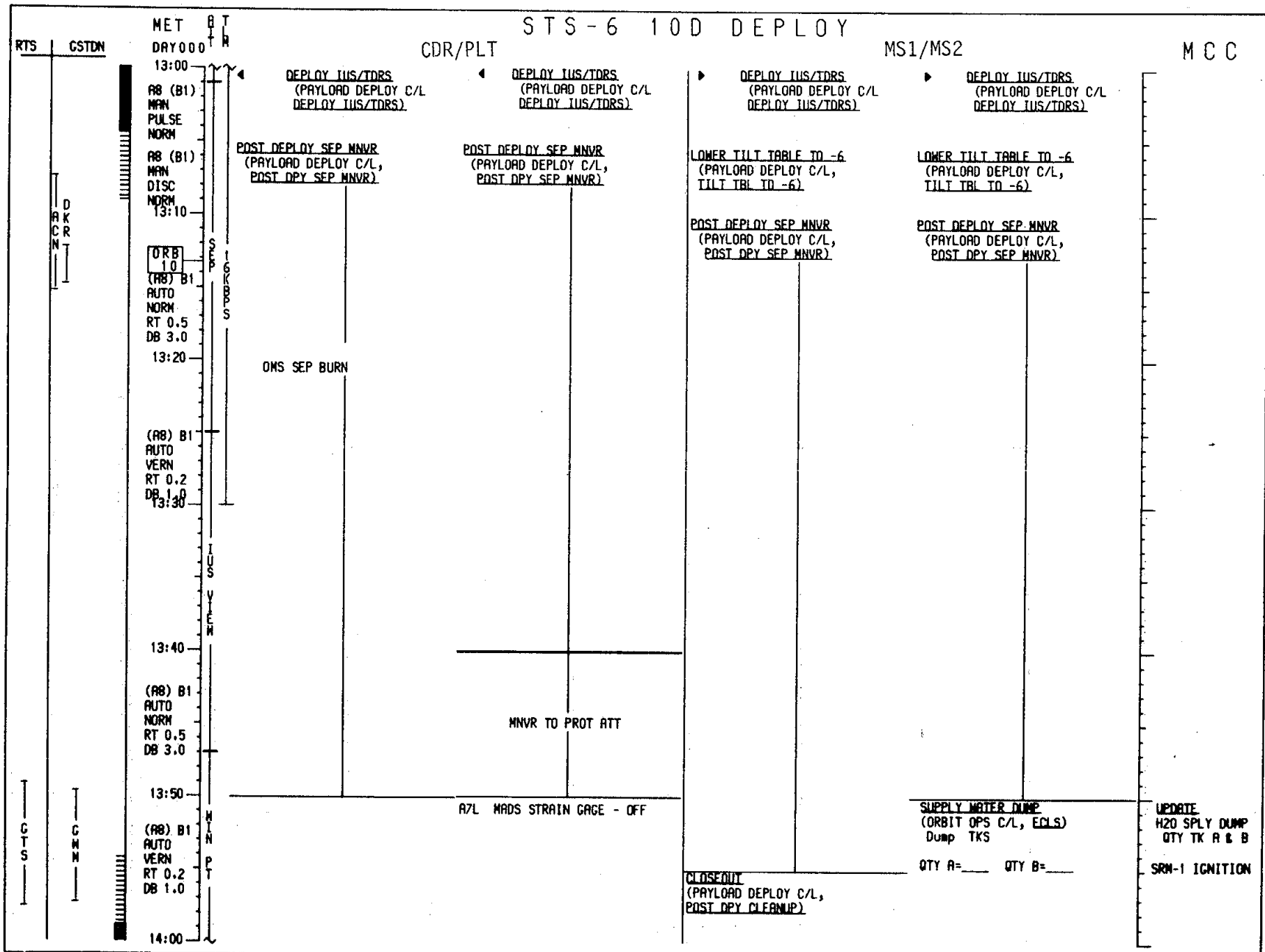
MS1/MS2

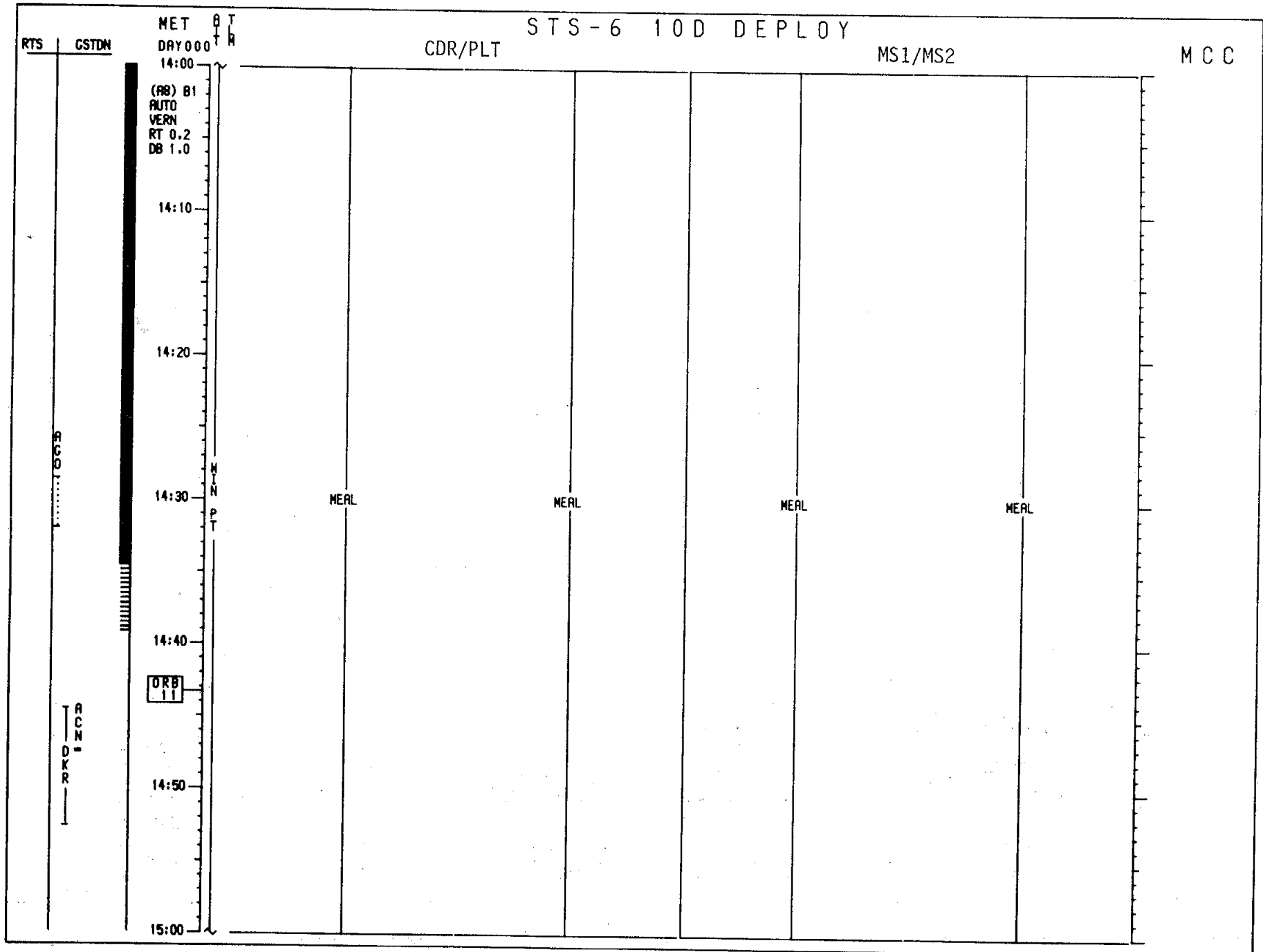
MCC





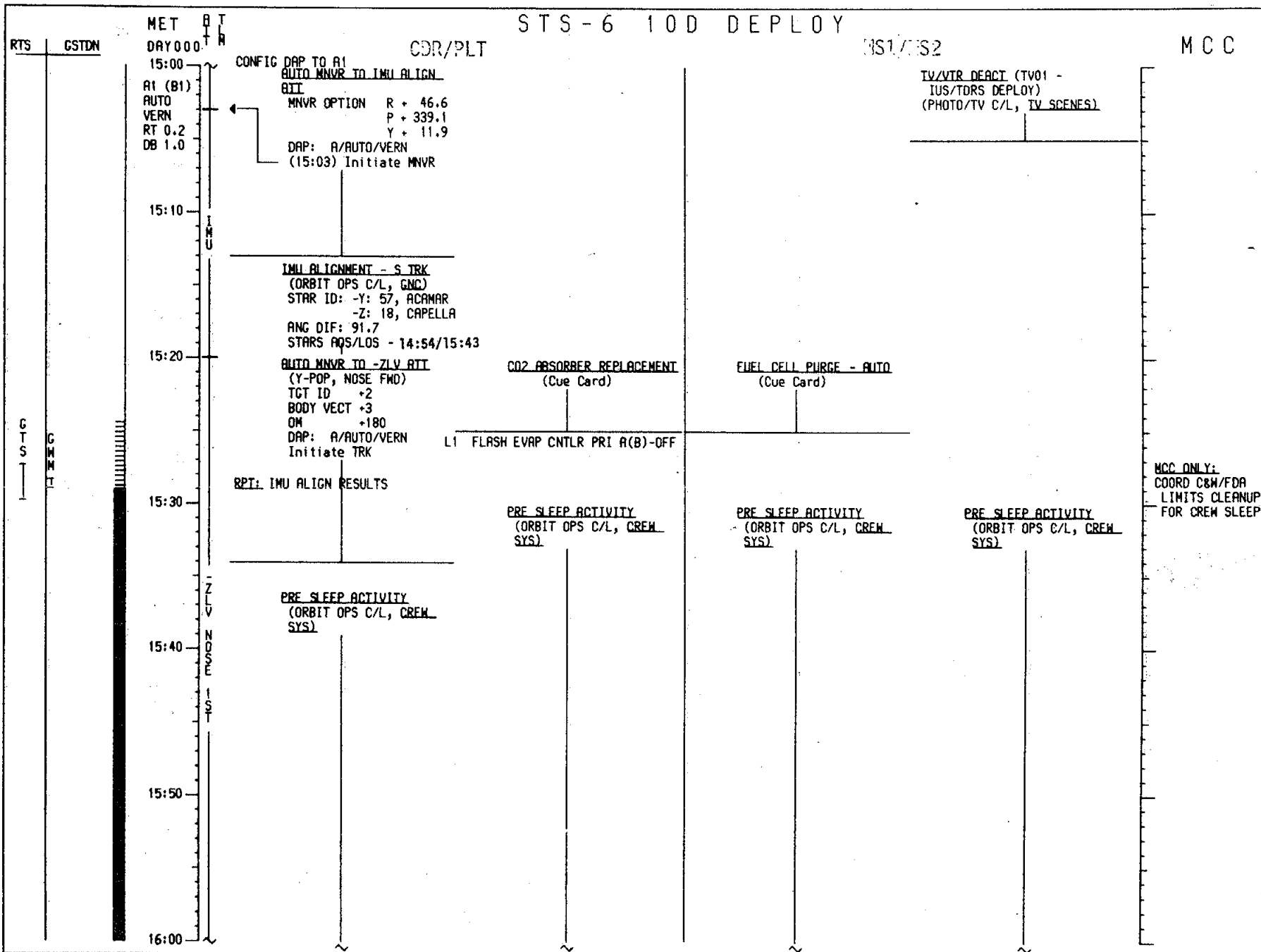


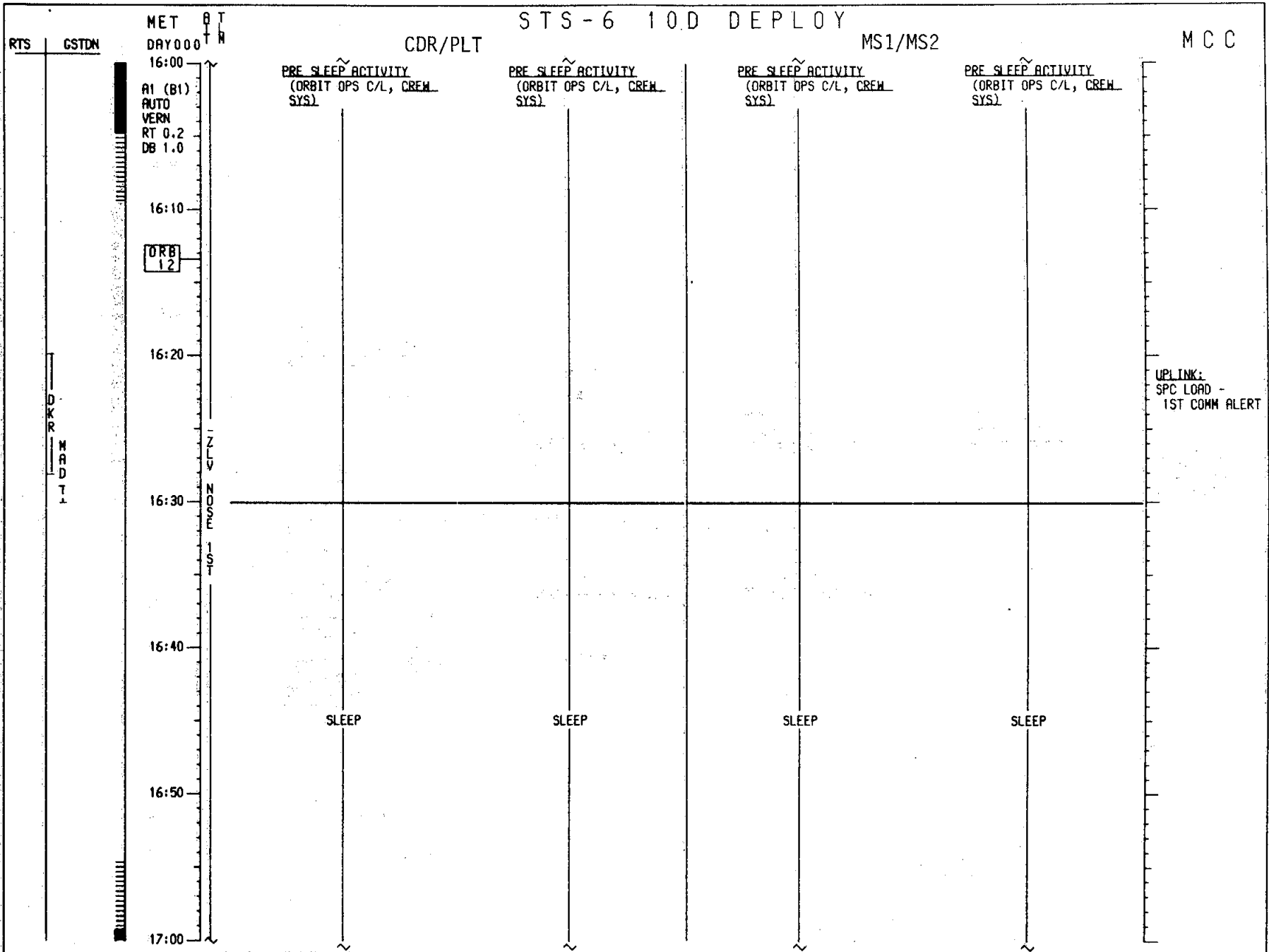


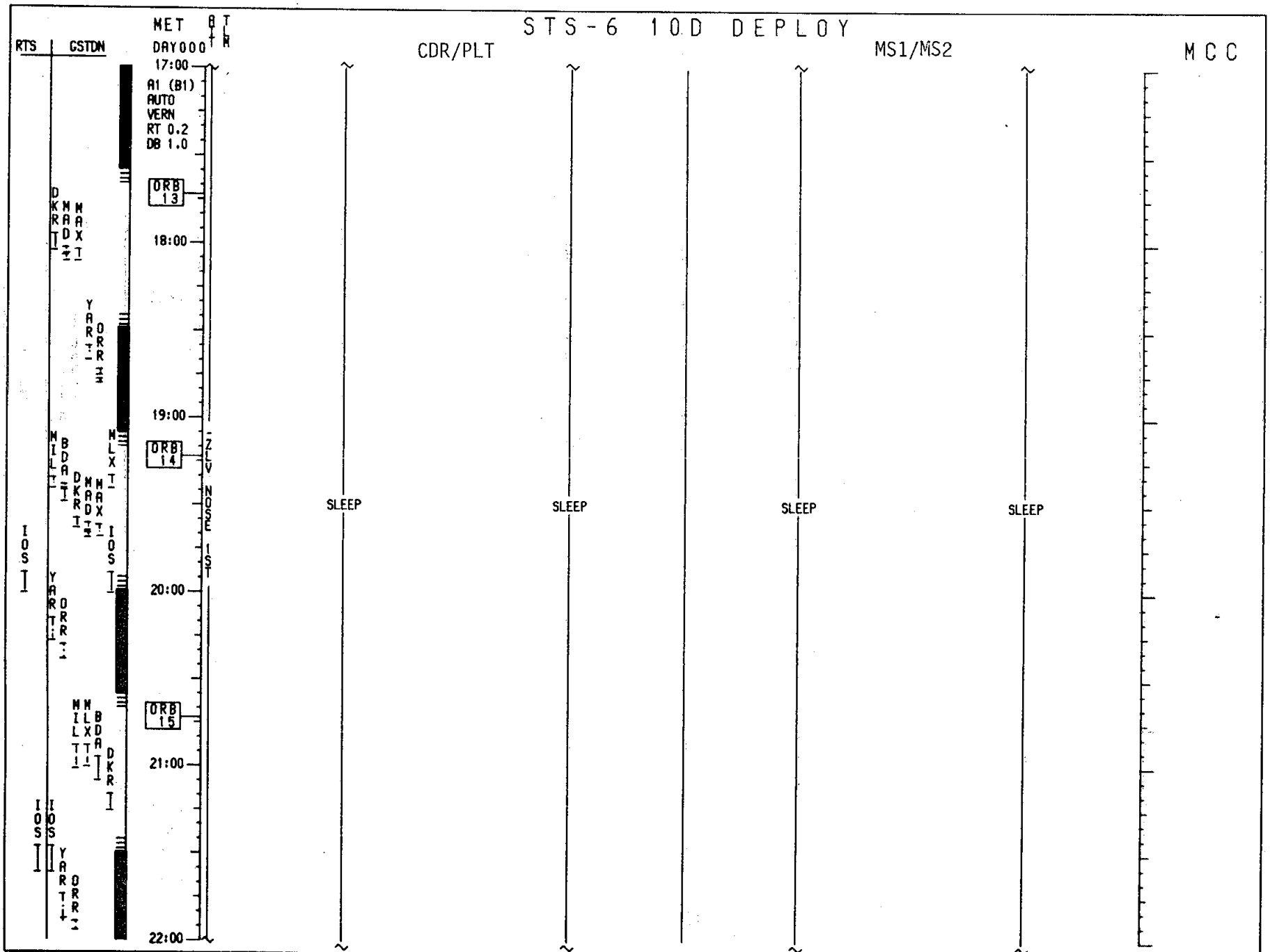


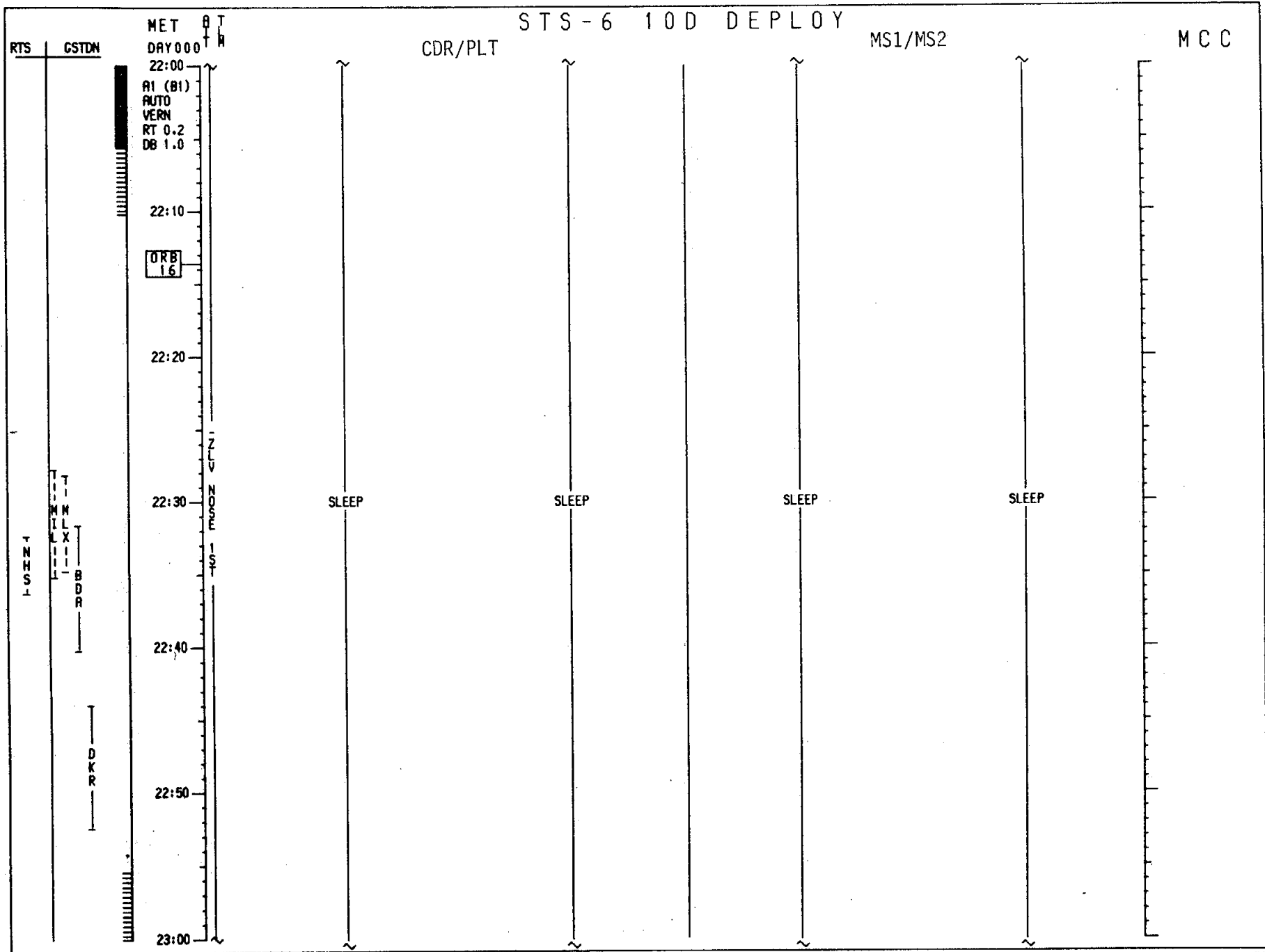
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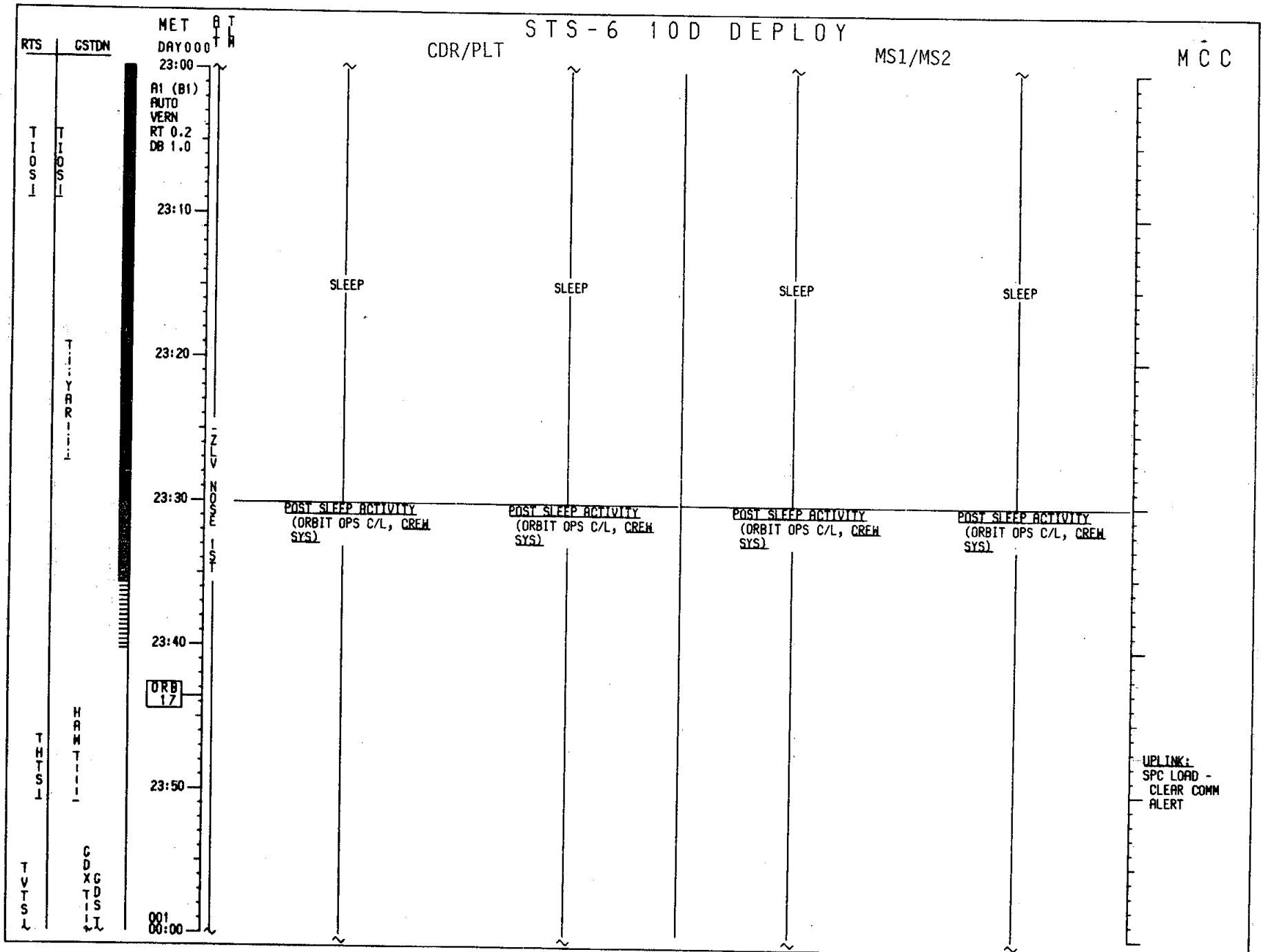
IMU ALIGN LOG			
REQD ID:	-Y	-Z	ANG ERR
ANG			
Δ X ()	---	()	()
Δ Y ()	---	()	()
Δ Z ()	---	()	()
EXECUTION TIME:	---	/	:---







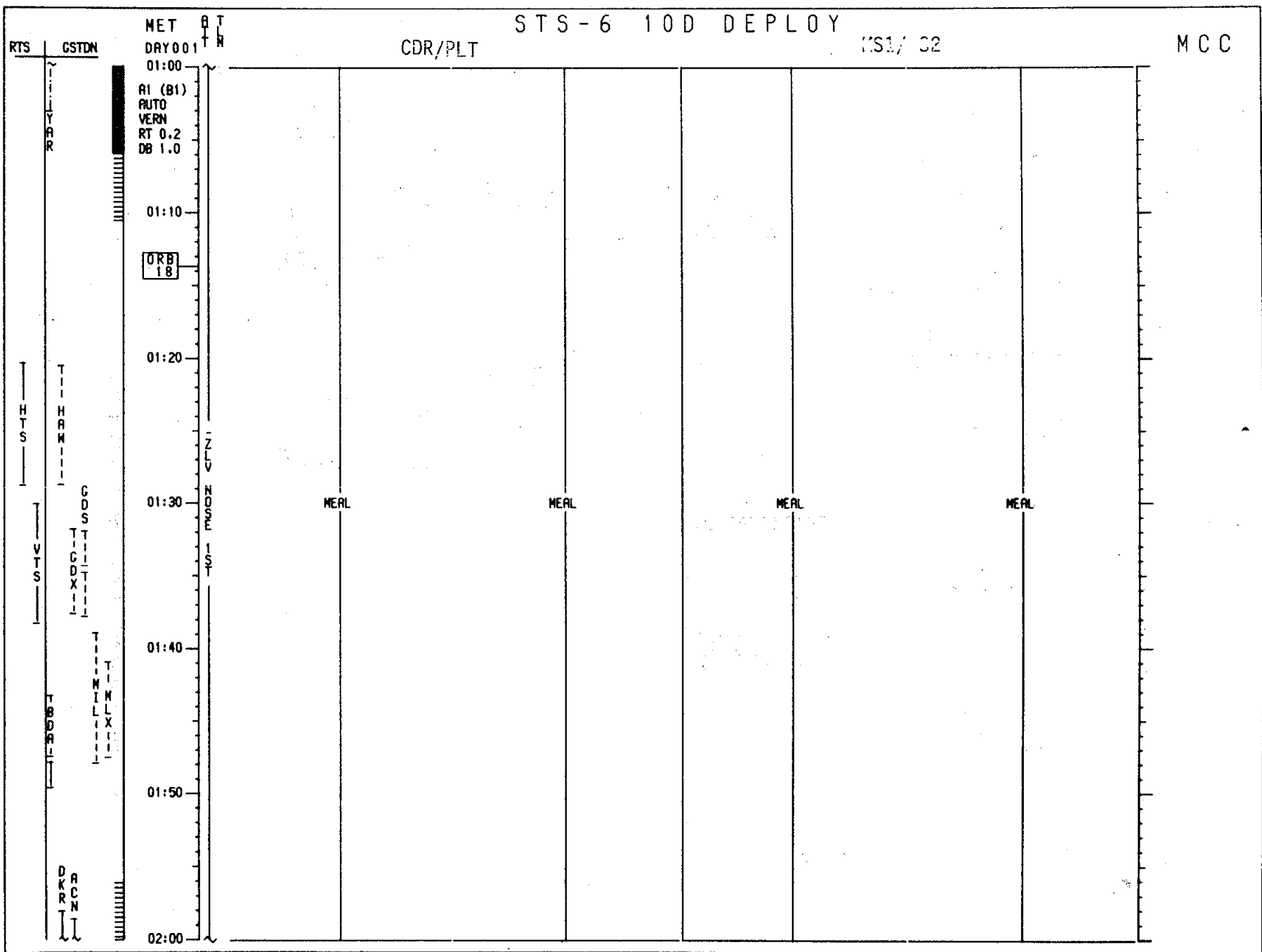


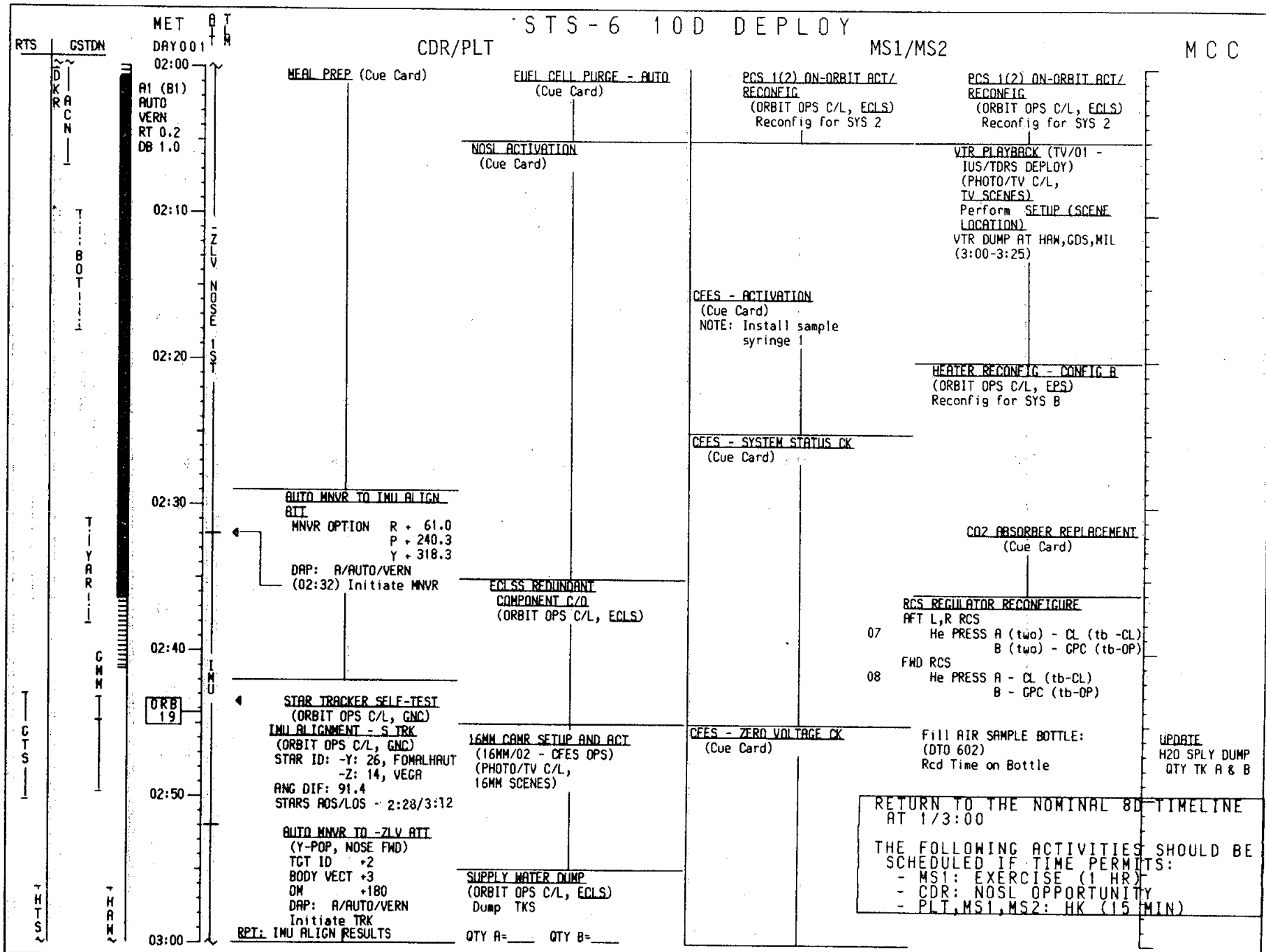


STS-6 10D DEPLOY

MCC

RTS	CSTDN	MET	CDR/PLT	MS1/MS2	MCC	
STS X H S	DDT MILX B R D	DAY 001 00:00 A1 (B1) AUTO VERN RT 0.2 DB 1.0	<u>POST SLEEP ACTIVITY</u> (ORBIT OPS C/L, CREW SYS)	<u>POST SLEEP ACTIVITY</u> (ORBIT OPS C/L, CREW SYS)	<u>POST SLEEP ACTIVITY</u> (ORBIT OPS C/L, CREW SYS)	<u>POST SLEEP ACTIVITY</u> (ORBIT OPS C/L, CREW SYS)
		00:10				
		00:20				
		00:30				
		00:40				
		00:50				
		01:00				
			TELEPRINTER MESSAGE REVIEW	TELEPRINTER MESSAGE REVIEW	TELEPRINTER MESSAGE REVIEW	TELEPRINTER MESSAGE REVIEW

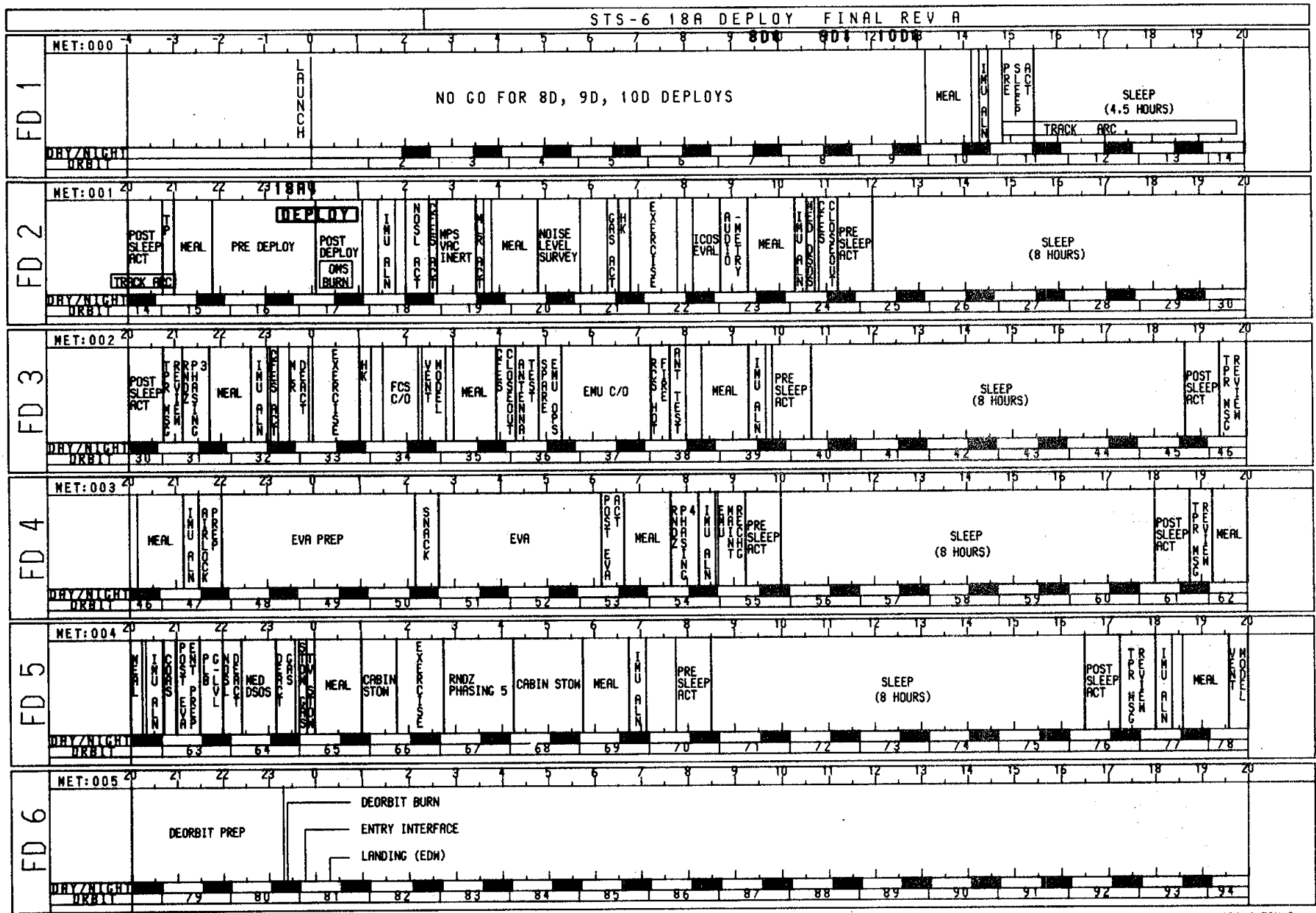




18A DEPLOYMENT

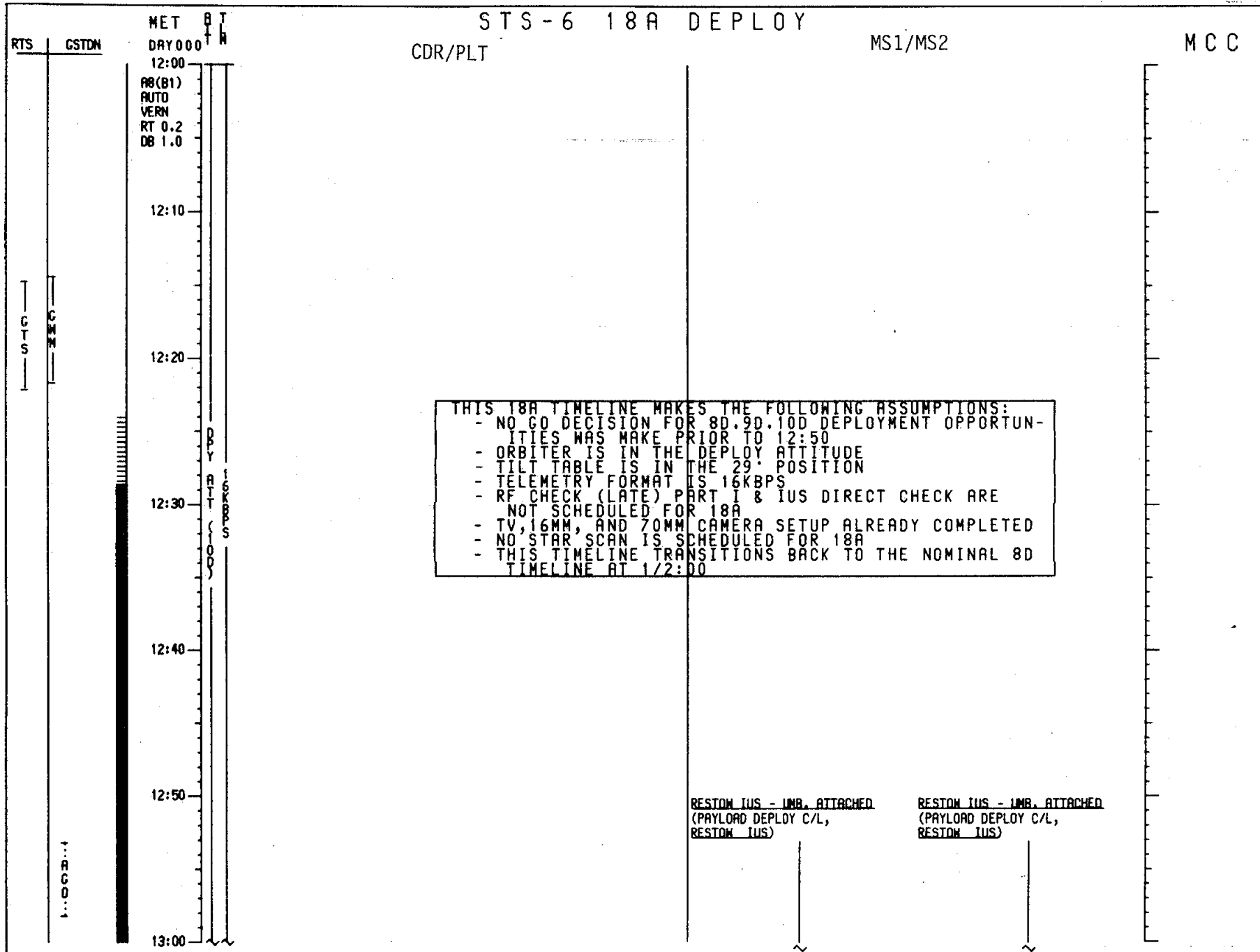
The 18A Deployment Timeline is designed to accommodate delaying deployment to the 18A opportunity after attempting the 8D, 9D, 10D deployment. The timeline begins immediately prior to the 10D deployment time (0/12:50) and assumes the tilt table is elevated to 29°. All nominal deployment activities are included except the late IUS direct check, RF Check Late (Part I), and star scan. Additional assumptions are shown on page 5C-5.

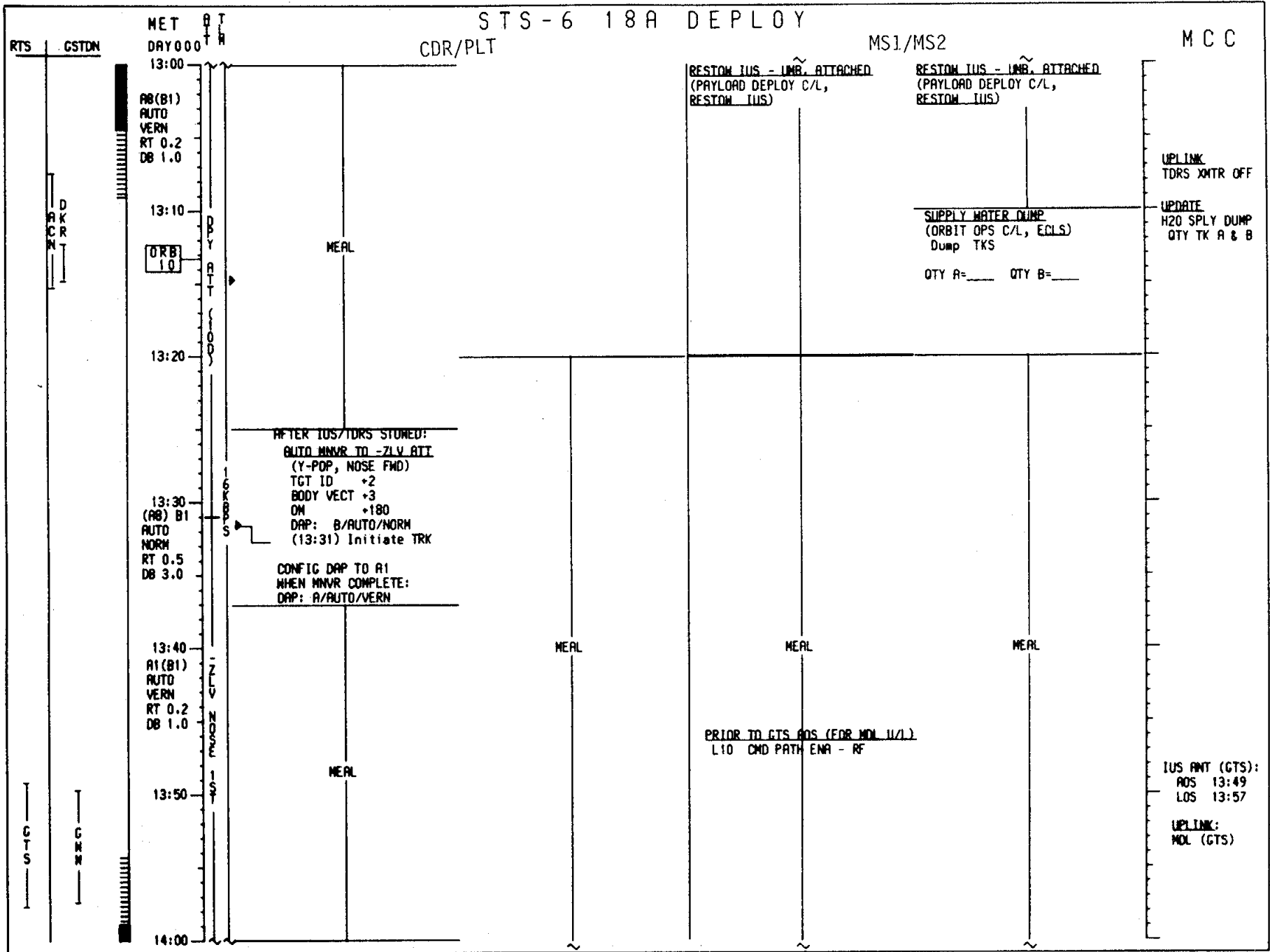
This timeline is based on the 18A (cycle 3 updated) flight profile.



GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE				
090:06:30 / 090:18:30	000:12:00 / 001:00:00	090:00:30 / 090:12:30	01 / 090 GMT	-23.3	☉	MARCH 31, 1983	STS 6	FINAL REV A	3/25/83				
CMT : 090	FD : 01	18A TIMELINE			12	13	14	15	16	17	18		
MET : 000	12	13	14	15	16	17	18	19	20	21	22	23	0
CDR		MEAL	MEAL	PRE SLEEP ACT	SLEEP	POST SLEEP ACT	MEAL						
PLT	NO GO FOR 80, 9D & 10D DEPLOYS	MEAL	PRE SLEEP ACT	SLEEP	POST SLEEP ACT	MEAL	TV ACT						
MS1	RESTOR IUS	MEAL	PRE SLEEP ACT	SLEEP	POST SLEEP ACT	MEAL							
MS2	NO GO FOR 80, 9D & 10D DEPLOYS	MEAL	PRE SLEEP ACT	SLEEP	POST SLEEP ACT	MEAL							
DAY/NIGHT													
ORBIT	9	10	11	12	13	14	15	16					
GSTDN COVERAGE	-CWN	-AGO	ACN	-DGR	-YAR	-MAX	-DGR	-DGR	-DGR	-DGR	-DGR	-DGR	-DGR
SGLS COVERAGE	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS	-GTS
TV DEORB EDN NOR													
ATTITUDE	DPY ATT (10D)	ZLV NOSE 1ST	IMU	TRK -ZLV NOSE 1ST									
MNVR													
EXPT													
TLN													
NOTES:	<ul style="list-style-type: none"> ○ MDL UPLK (GTS) ● Y-POP (NOSE FWD), PRCS ● IMU START TRACKING ● IMU MNVR PRCS ● PRCS ● BU MDL UPLK (IOS/RTS) ● GO TILT TABLE (ORR) ● BUS C/D (EARLY) ● END TRACKING (MIL) ● SV TO IUS (NHS) ● TORS DIRECT CK (MIL) ● 16 TO 64 KBPS ● IOS C/D (EARLY) ● DPLY COUNT DN ● PHX XFER ● RELEASE UMB ● 64 TO 16 KBPS ● PL LOCK ON FOR DPY 												

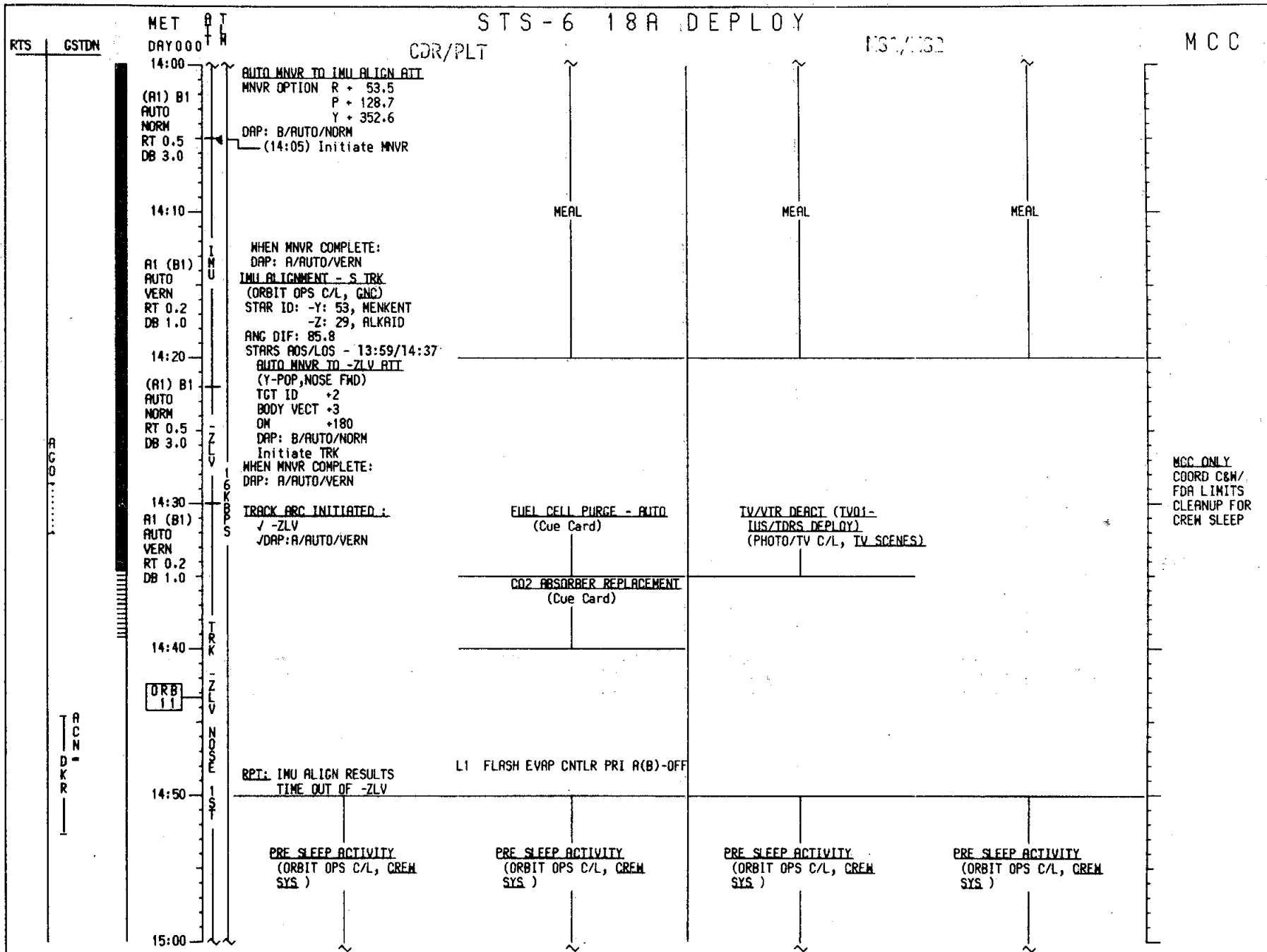
GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
090:18:30 / 091:06:30	001:00:00 / 001:12:00	090:12:30 / 091:00:30	02 / 090 GMT	-23.7		MARCH 31, 1983	STS 6	FINAL REV A	3/25/83
GMT : 090 FD : 02 MET : 001									
CDR	POST DPY ACT	IMU MNVR	IMU MNVR	IMU MNVR	ZLV				
PLT	POST DPY ACT	POST DPY ACT	POST DPY ACT	POST DPY ACT	HK	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> RETURN TO NOMINAL 8D TIMELINE AT 172:00 - THE FOLLOWING ACTIVITY SHOULD BE SCHEDULED IF TIME PERMITS: - MSI: EXERCISE (1 HR) </div>			
MS1	POST DPY ACT	POST DPY ACT	POST DPY ACT	POST DPY ACT					
MS2	POST DPY ACT	POST DPY ACT	POST DPY ACT	POST DPY ACT	HK				
DAY/NIGHT									
ORBIT	17	18	19	20	21	22	23	24	
GSTDN COVERAGE	-BOT -YAR	-BDR -DKR -ACN	-GDS -CDX -NLX	-HAW -GDX -GDS	-BOT -IOS	-GMM -HAW -AGO	-GMM -HAW -AGO -ACN		
SGLS COVERAGE	-VYS -NHS	-VTS -HTS	-GTS -HTS	-GMM -VTS -GTS -HTS	-BOT -IOS -GMM -HAW -HTS	-GMM -HAW -AGO -BOT -IOS -HTS	-GMM -HAW -AGO -BOT -IOS -HTS	-GMM -HTS	-GTS
TV DEORB EDW NOR	IMU VTR	↑ 00:47	↑ 02:22	↑ 03:57					
ATTITUDE	SEP	IUS VIEW	WIN PT	IMU	-ZLV				
MNVR									
EXPT									
TLM	16KBPS								
NOTES:	<ul style="list-style-type: none"> ● DEPLOY IUS ○ DEPLOY IUS ● CHANGEDOUT ● Y-POP (NOSE FWD) ● IUS SRM-1 IGNITION ○ ST TRKR SELF TEST ● DTO 602 CABIN ATMOSPHERE VERF ● POST DPY CLEANUP 								

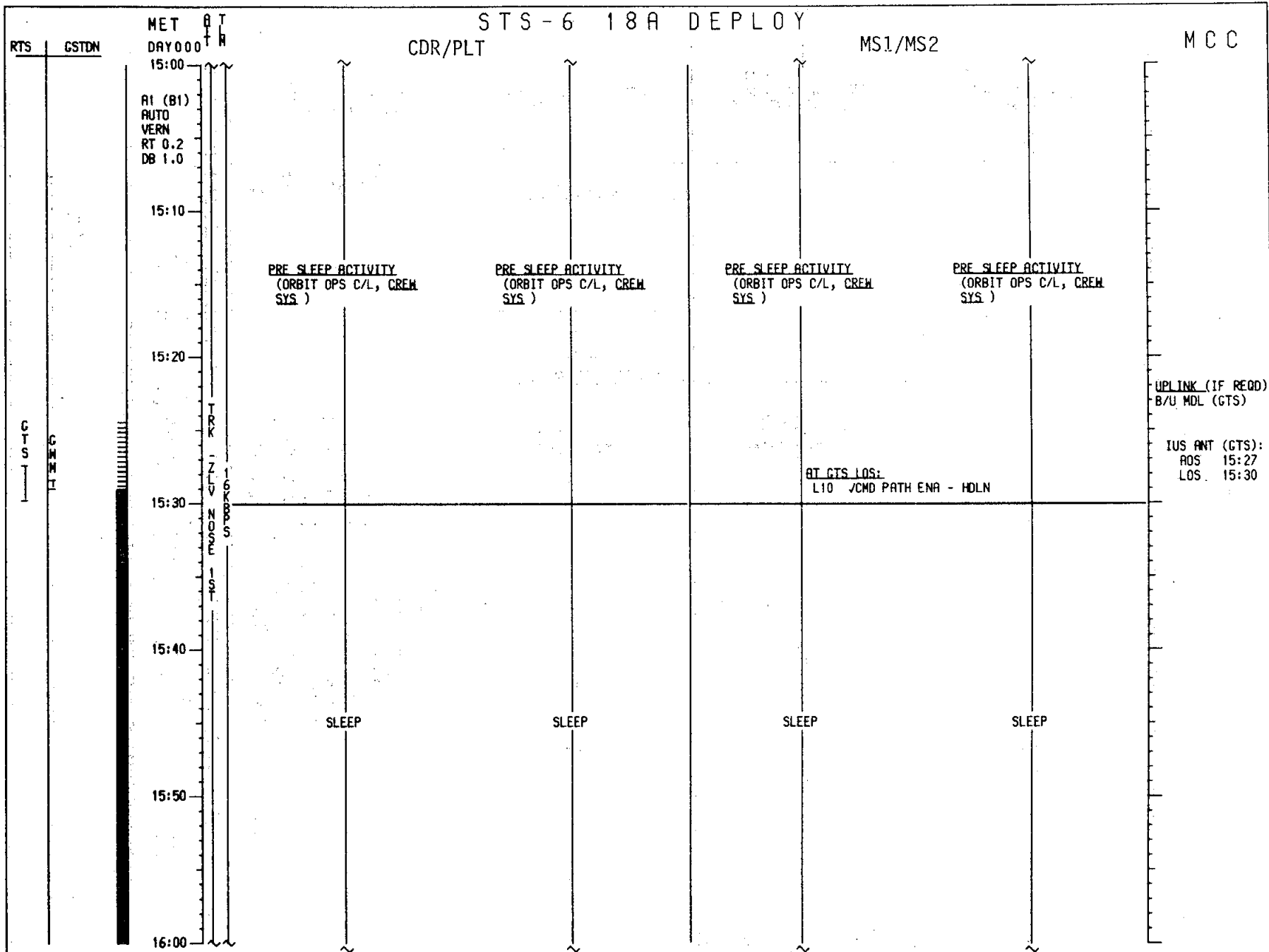


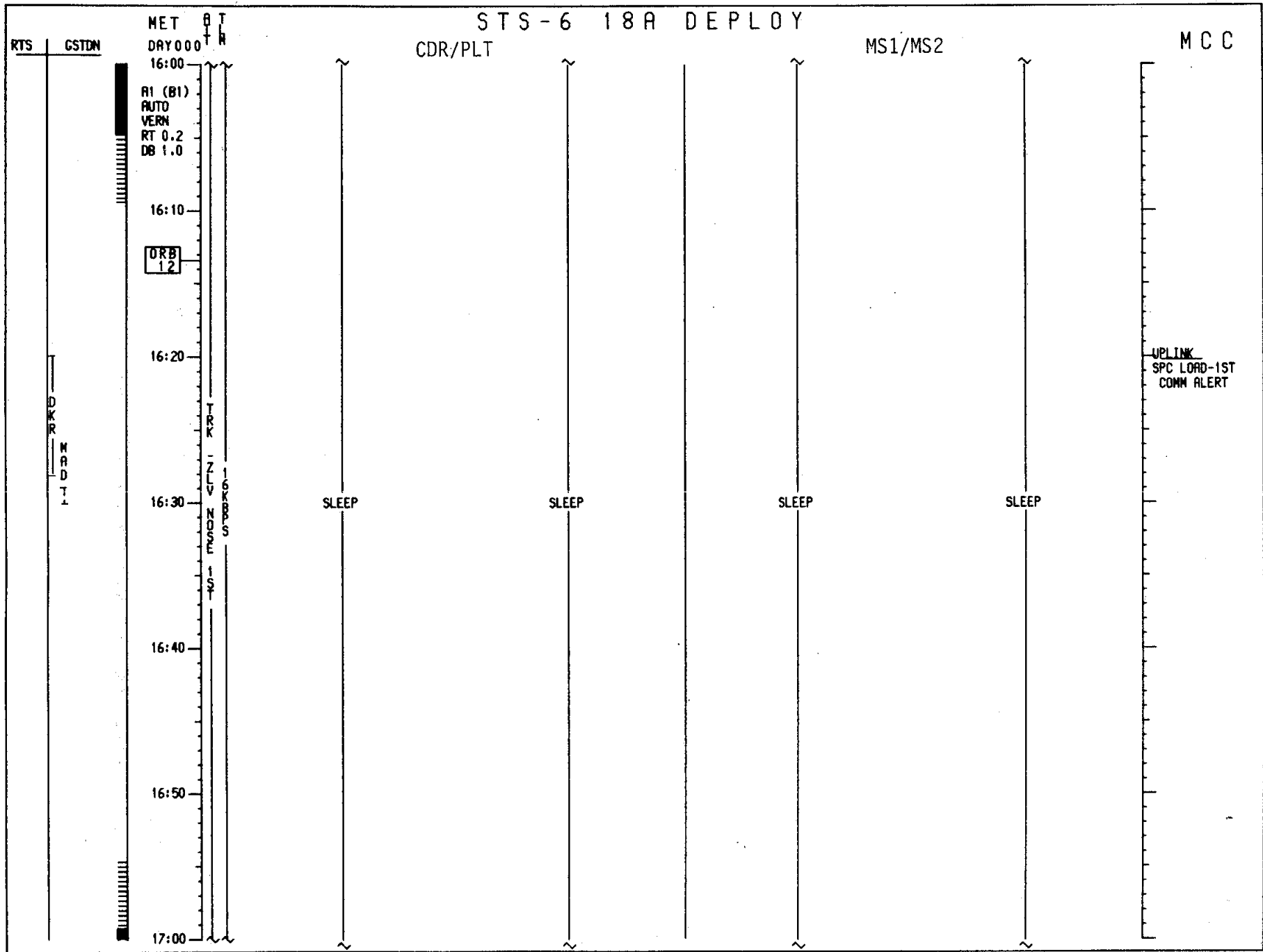


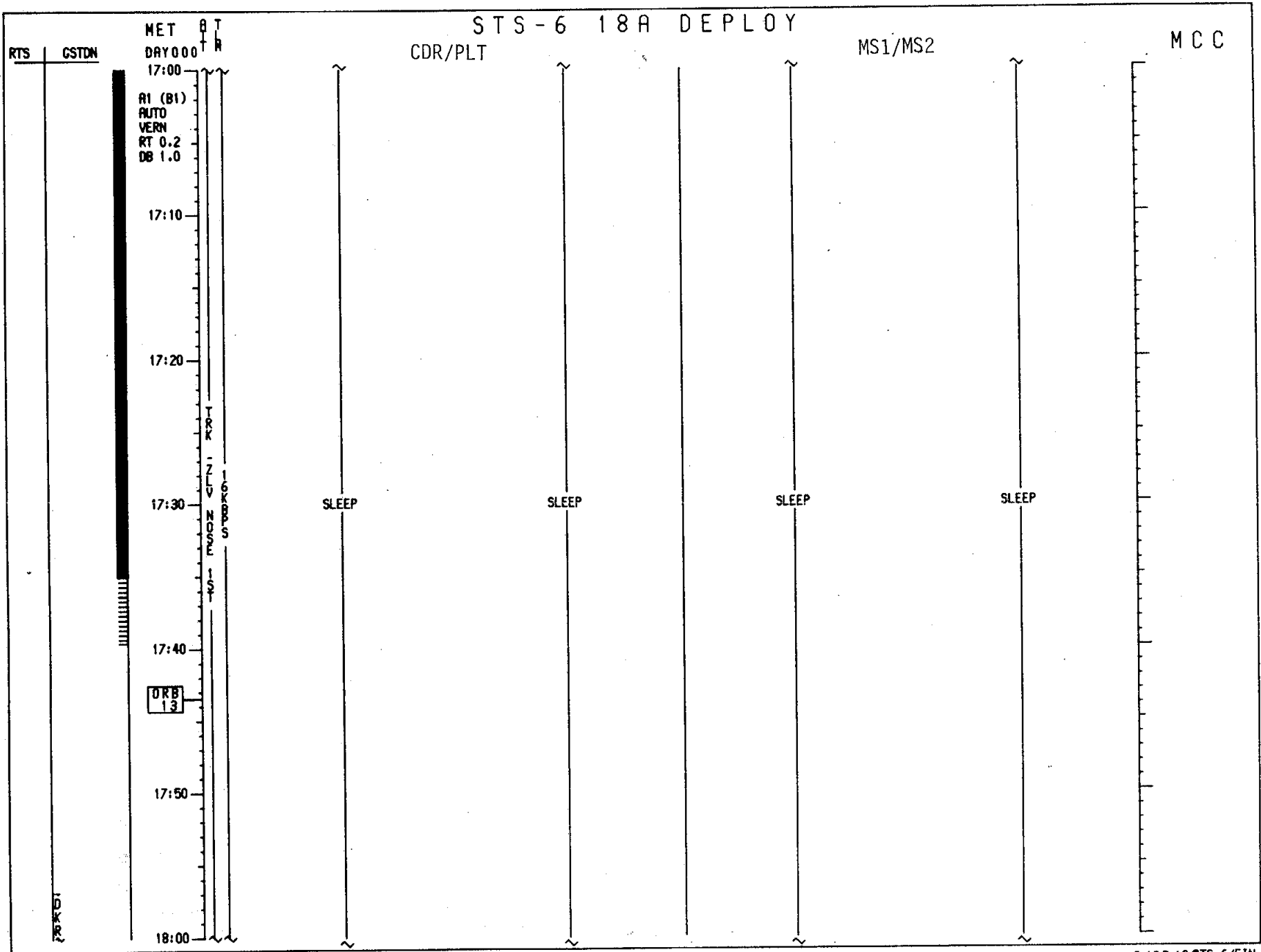
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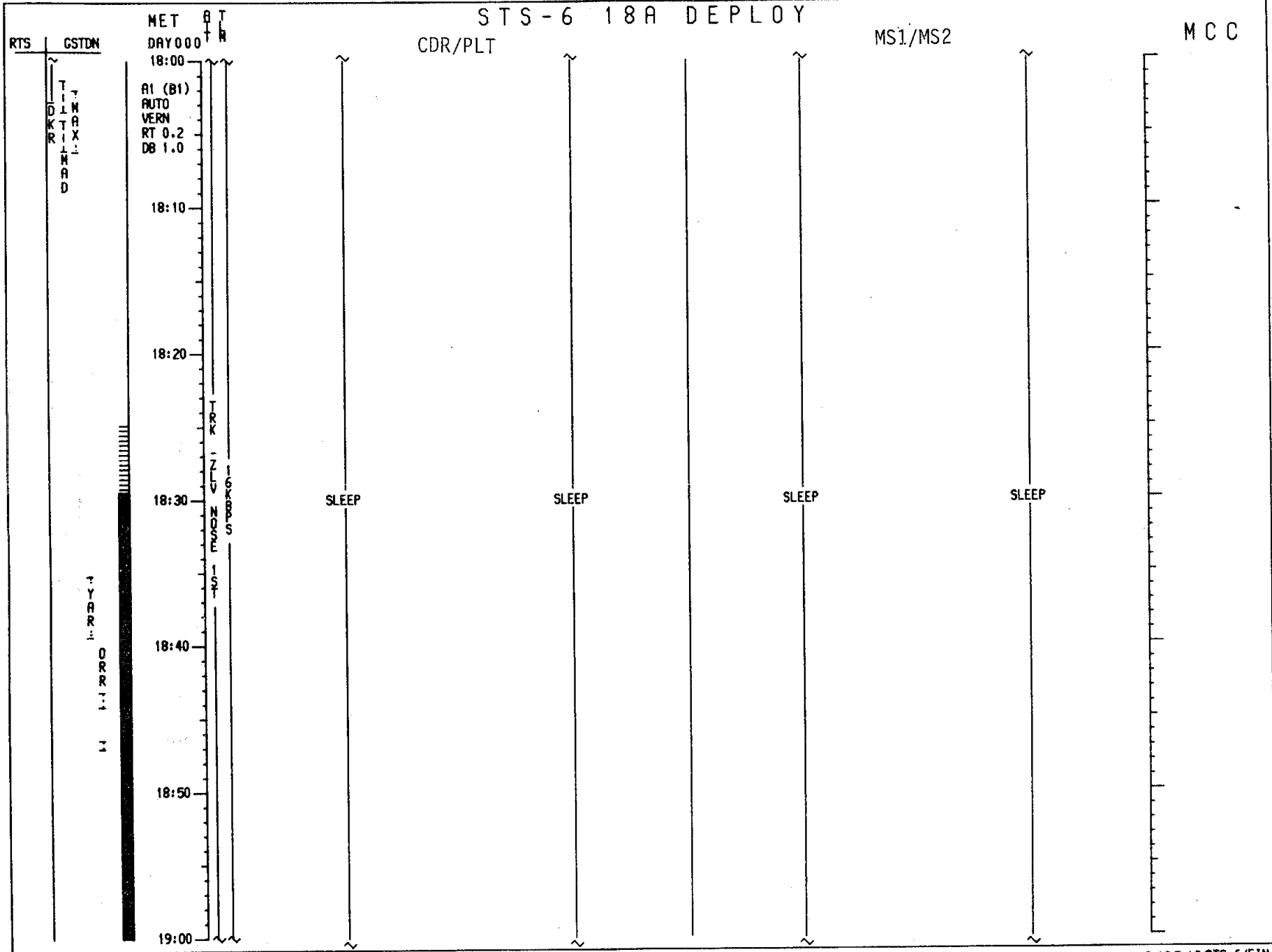
IMU ALIGN LOG
REQD ID: -Y --- -Z --- ANG ERR . ---
ANG
Δ X () --- () --- () ---
Δ Y () --- () --- () ---
Δ Z () --- () --- () ---
EXECUTION TIME: --- / --- : --- :

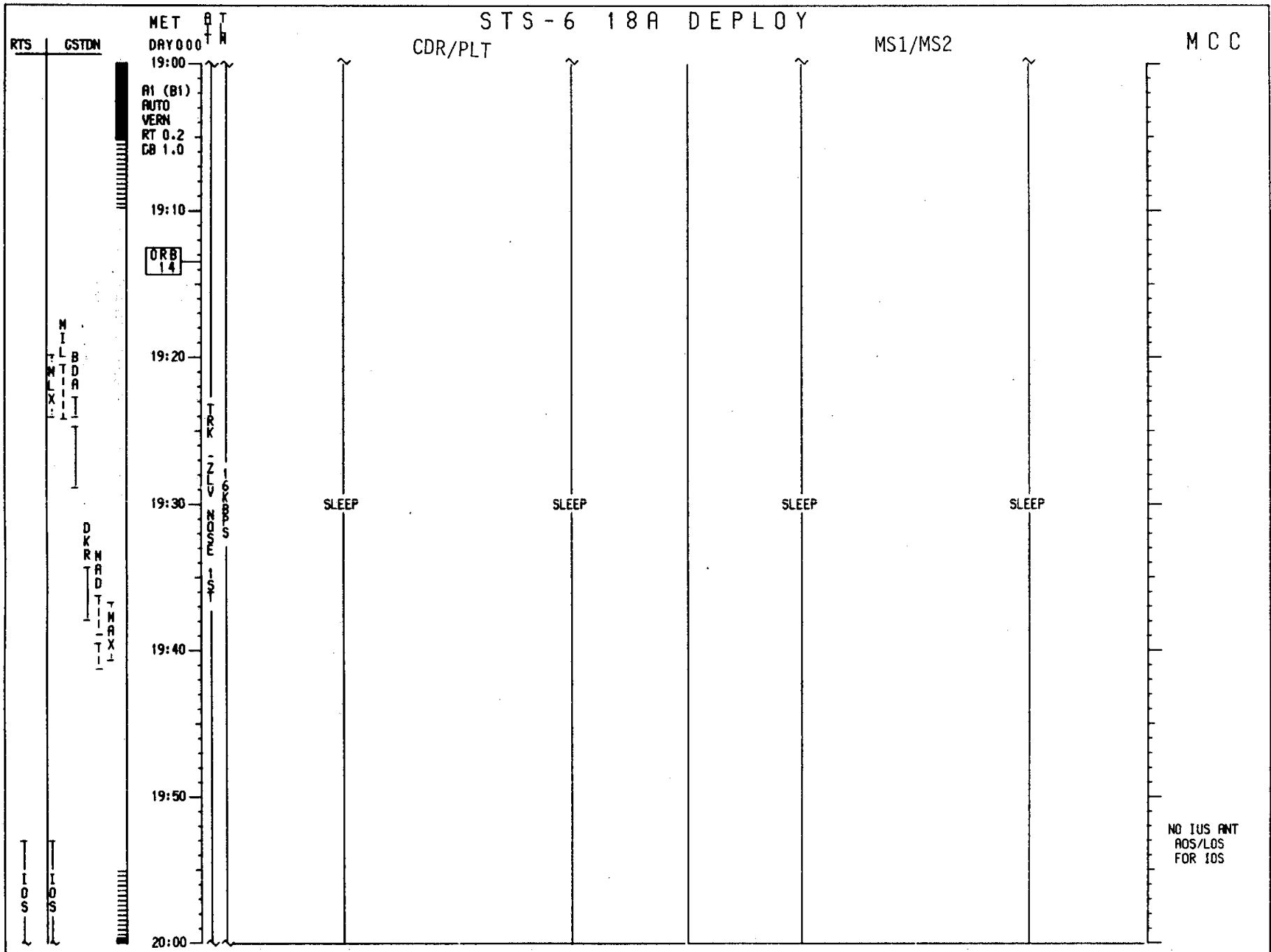












STS-6 18A DEPLOY
CDR/PLT MS1/MS2 MCC

MET DAY 000
RT 0.2
CB 1.0

19:00

19:10

19:20

19:30

19:40

19:50

20:00

R1 (B1)
AUTO
VERN
RT 0.2
CB 1.0

ORB
14

MILITARY
ORBIT

SLEEP

SLEEP

SLEEP

SLEEP

NO IUS ANT
AOS/LOS
FOR IOS

RTS		GSTDN	MET DAY 000	STS-6 18A DEPLOY				MCC
TOS			DTW	CDR/PLT		MS1/MS2		
			20:00	POST SLEEP ACTIVITY (ORBIT OPS C/L, CREW SYS)	POST SLEEP ACTIVITY (ORBIT OPS C/L, CREW SYS)	POST SLEEP ACTIVITY (ORBIT OPS C/L, CREW SYS)	POST SLEEP ACTIVITY (ORBIT OPS C/L, CREW SYS)	
			20:10					
			20:20					UPLINK SPC LOAD- CLEAR COMM ALERT
			20:30					
			20:40					
			20:50	TELEPRINTER MESSAGE REVIEW	TELEPRINTER MESSAGE REVIEW	TELEPRINTER MESSAGE REVIEW	TELEPRINTER MESSAGE REVIEW	
			21:00					TRACK ARC TERMINATE (MIL)

MET DAY 000
 20:00
 A1 (B1)
 AUTO
 VERN
 RT 0.2
 DB 1.0
 20:10
 20:20
 20:30
 20:40
 20:50
 21:00

T
Y
A
R

TT
 MW
 IL
 LX
 ID
 RA

ORB
15

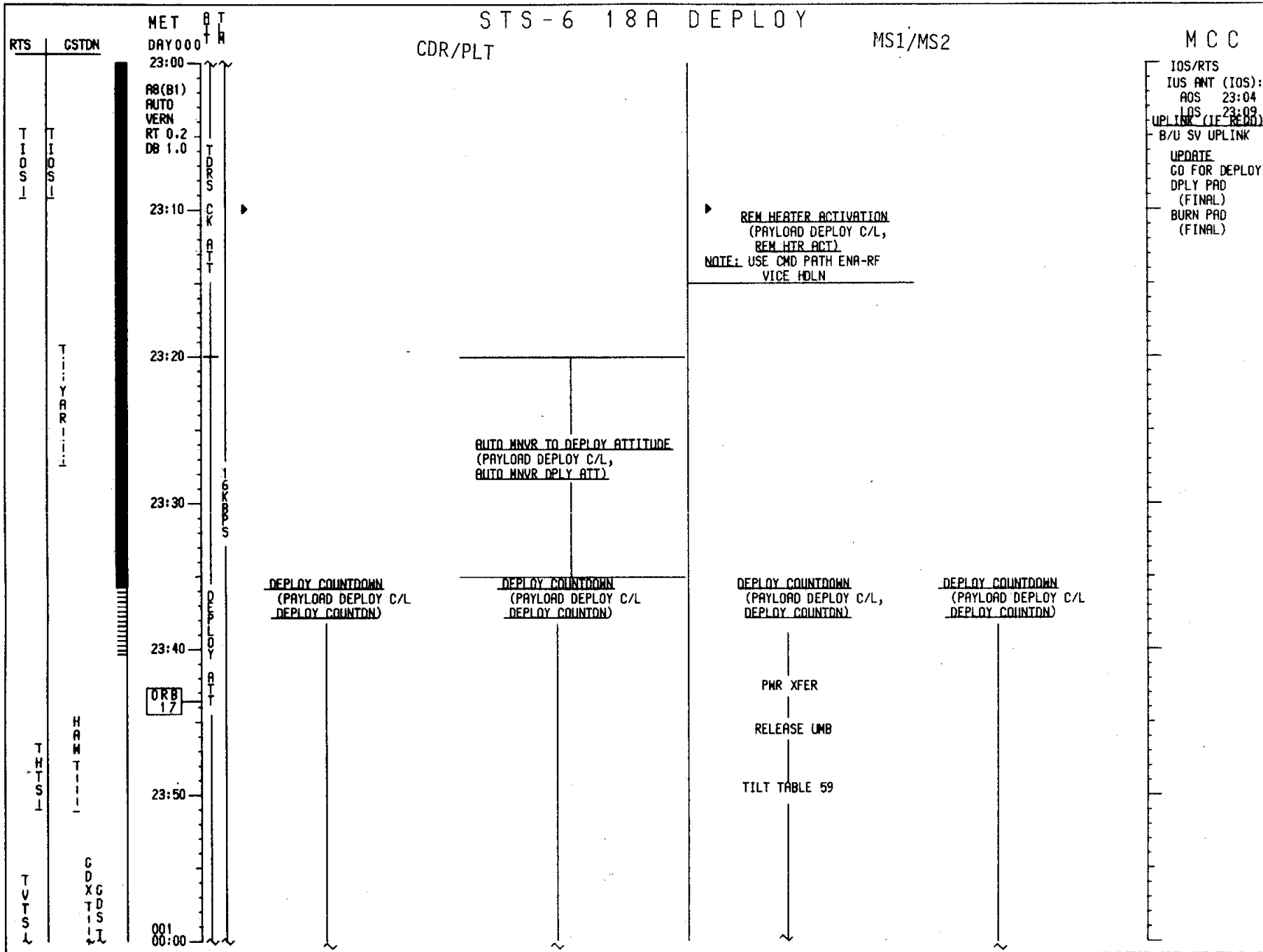
RTS	GSTDN	MET DAY 000	A T H	STS-6 18A DEPLOY	MS1/MS2	MCC	
		22:00 (R1)B1 AUTO NORM RT 0.5 DB 3.0		CDR/PLT AUTO MNR TO TDRS CK ATT (MIL) (PAYLOAD DEPLOY C/L, MNR TO TDRS ATT)	TV ACT (TVO1-IUS/TDRS DEPLOY) (PHOTO/TV C/L, TV SCENES) Record on VTR (IUS DPY)	IUS C/O (EARLY) (PAYLOAD DEPLOY C/L, IUS C/O (EARLY))	IUS C/O (EARLY) (PAYLOAD DEPLOY C/L, IUS C/O (EARLY))
		22:10				√PL BAY FLOODS FWD,AFT (four) - ON FWD BHD - ON	
		ORB 16 RT 0.2 DB 1.0 22:20	64 KBPS		TILT TABLE ELEVATION TO 29 (PAYLOAD DEPLOY C/L TILT TAB TO 29)	TILT TABLE ELEVATION TO 29 (PAYLOAD DEPLOY C/L TILT TAB TO 29)	
				L11 Send CIU CMD 33, 12C11 No CIU CMD Feedback CRT4 √IUS SAFETY RF PWR - 25.0 ± 5.0		TDRS DIRECT CK (MIL) TDRS ANT(MIL) AOS 22:28 LOS 22:32 UPLINK (MIL): TDRS CMD	
		22:30	TDRS CK ATT	▶ (3) TDRS (DIRECT) (MIL) (PAYLOAD DEPLOY C/L, RF CKS II (LATE))	▶ (3) TDRS (DIRECT) (MIL) (PAYLOAD DEPLOY C/L, RF CKS II (LATE))	IUS ANT (NHS): AOS 22:32 LOS 22:37 UPDATE GO FOR SV XFER TDRS RF CK STATUS	
				▶ TRANSFER SV (NHS) (PAYLOAD DEPLOY C/L, TRANSFER SV)	▶ TRANSFER SV (NHS) (PAYLOAD DEPLOY C/L, TRANSFER SV)		
		22:40	BDR	▶ 64 TO 16 KBPS (Cue Card)			
		22:50	DKR			UPDATE ONBOARD GO/NO GO CHART	
		23:00		▶ (2) IUS (PI) LOCK-(DKR LOS) (PAYLOAD DEPLOY C/L, RF CKS II (LATE))	▶ (2) IUS (PI) LOCK-(DKR LOS) (PAYLOAD DEPLOY C/L, RF CKS II (LATE))		

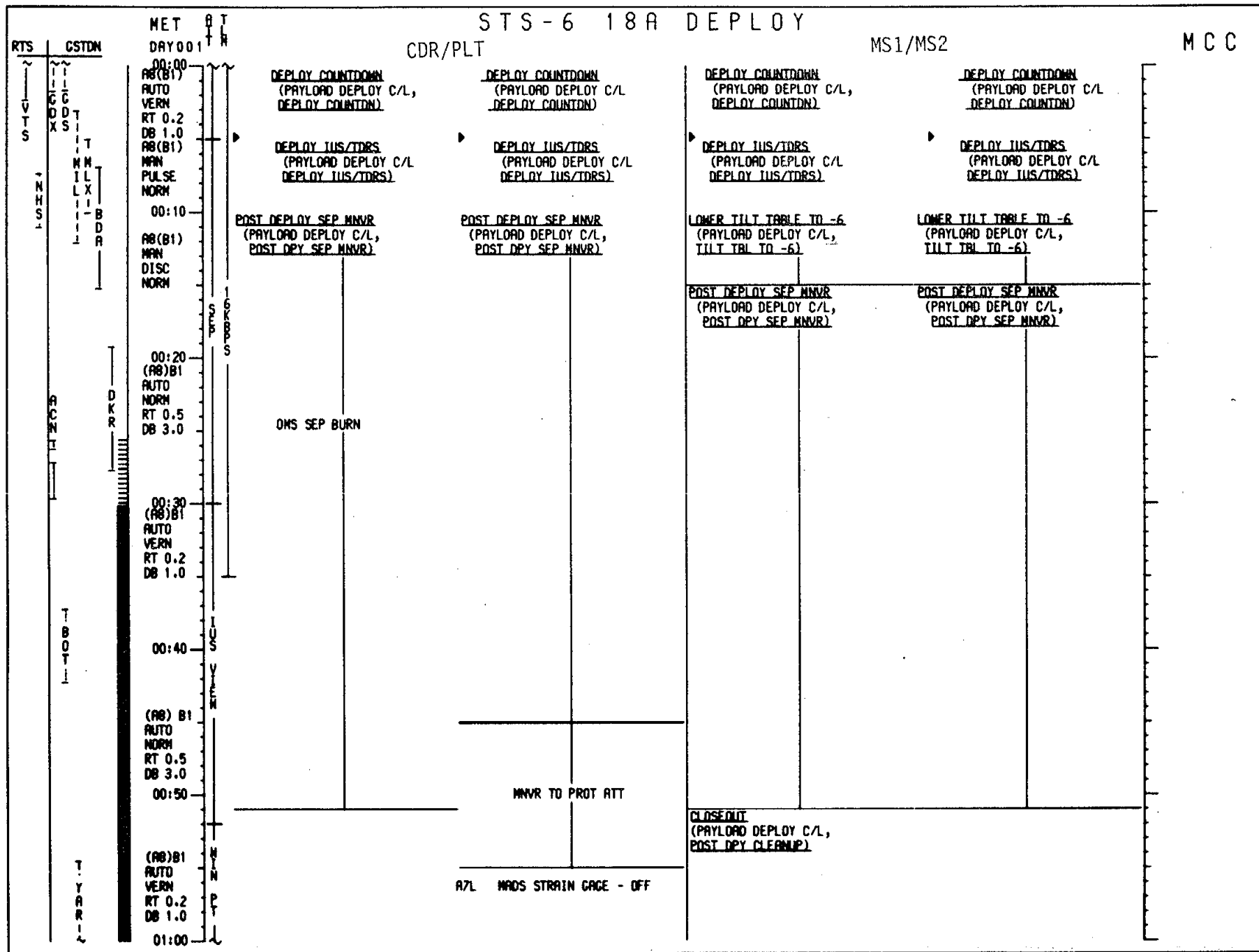
STS-6 18A DEPLOY

CDR/PLT

MS1/MS2

MCC





IWD ALIGN LOG

REQD ID: -Y ___ -Z ___ ANG ERR ___ . ___

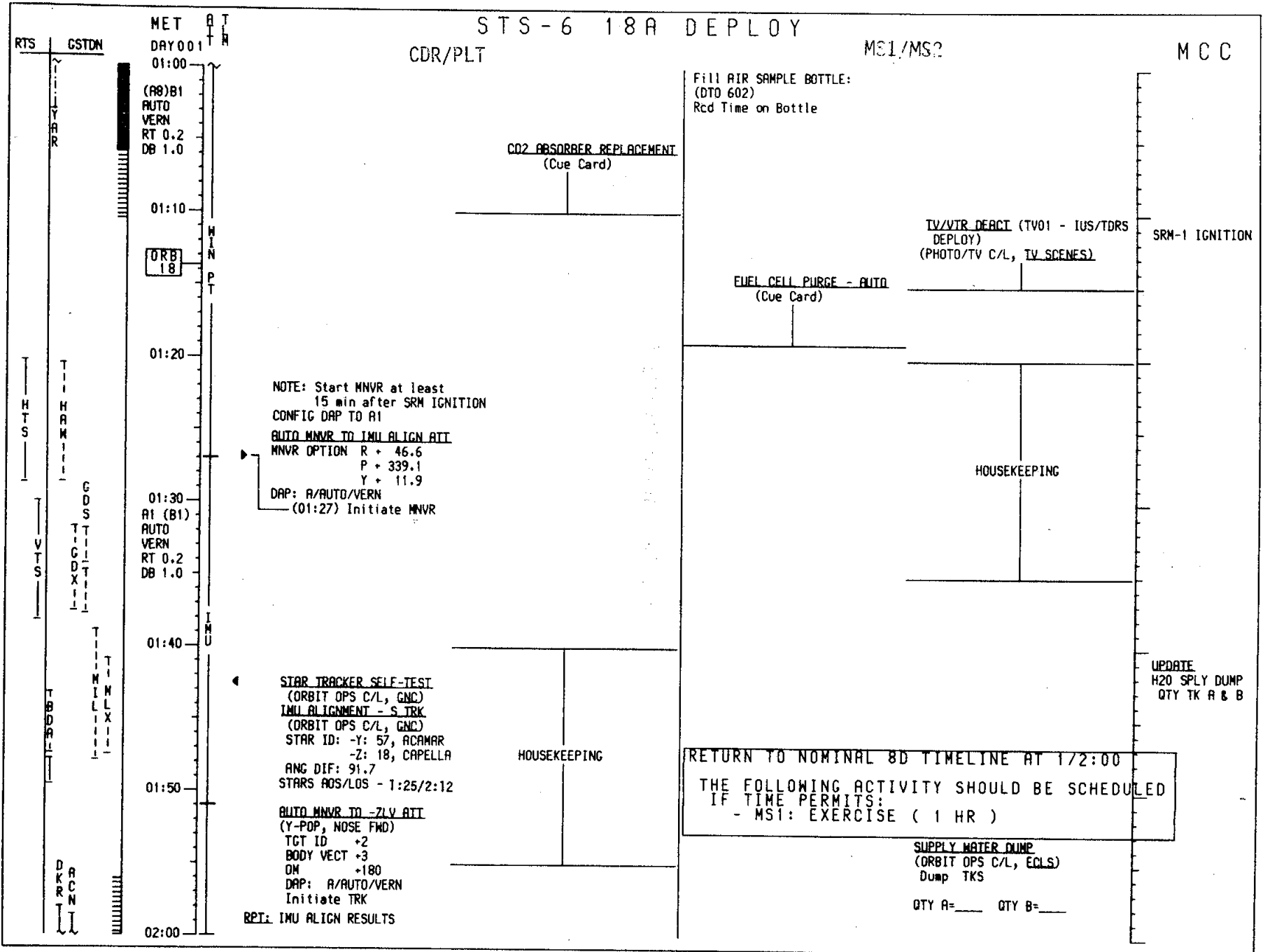
ANG

& X () ___ . ___ () ___ . ___ () ___ . ___

& Y () ___ . ___ () ___ . ___ () ___ . ___

& Z () ___ . ___ () ___ . ___ () ___ . ___

EXECUTION TIME: ___ / ___ : ___ : ___



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WAVE OFF (1 DAY LATE ENTRY)

The timeline provided in this section is designed to follow a Deorbit Prep Backout on FD 6. It therefore assumes that the nominal timeline has already been accomplished.

Note that exercise for each crewmember is the only activity scheduled prior to the evening meal. This is to allow extra time for reconfiguration or troubleshooting.

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE							
094:13:30 / 095:01:30	004:19:00 / 005:07:00	094:07:30 / 094:19:30	06 / 094 GMT	-20.9		APRIL 4, 1983	STS 6	FINAL REV A	3/25/83							
TIC																
FD : 06	-3		-2	-1	0	MET:005		DOY:095								
MET : 004	19	20	21	22	23	0	1	2	3							
CDR		PLBO OPS			BURN PREP			EXERCISE	HK			CABIN STOW	MEAL			
PLT		PLBO OPS			BURN PREP			HK		EXERCISE		MEAL PREP	CABIN STOW	MEAL		
MS1					BURN PREP					CABIN STOW	HK		EXERCISE		CABIN STOW	MEAL
MS2					BURN PREP					CABIN STOW	HK		EXERCISE			MEAL
NOMINAL 80 TIMELINE																
NO TIC																
DRY/NIGHT	[Shaded blocks indicating dry/night periods]															
ORBIT	78	79	80	81	82	83	84	85								
GSTDN COVERAGE	-WIL -BDA -DKR	-WIL -BDA -DKR	-HAW -GDS -BOT -YAR	-WIL -BDA -DKR	-HAW -GDS -BOT -YAR	-WIL -BDA -DKR	-HAW -GDS -BOT -YAR	-WIL -BDA -DKR	-HAW -GDS -BOT -YAR	-WIL -BDA -DKR						
SCLS COVERAGE	-NHS -IOS	-NHS -IOS	-VTS -HTS	-VTS -HTS	-VTS -HTS	-VTS -HTS	-VTS -HTS	-VTS -HTS	-VTS -HTS	-VTS -HTS						
TV DEORB EDM NOR	↑ 20:11	↑ 21:44	↑ 23:18	↑ 00:54	↑ 23:22	↑ 00:56										
ATTITUDE	TAIL SUN	IMU	BURN ATT						-ZLV NOSE 1ST							
MNRS																
EXPT																
TLN																
NOTES:	<ul style="list-style-type: none"> • APU HTR ACT ▲ SECURE AFT STA ◊ SEAT EGRSS ▲ PCS CONFIG • SSME HYD REPRESS ▲ RESET C/H ◊ SEAT EGRSS ▲ PCS CONFIG • SEAT EGRSS ◊ SEAT EGRSS ■ Y-POP (NOSE FWD) • SEAT EGRSS • OPEN VENT DOORS 															
WAVEOFF																

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																		
095:01:30/ 095:13:30	005:07:00/ 005:19:00	094:19:30/ 095:07:30	07/ 095 GMT	-19.9	●	APRIL 5, 1983	STS 6	FINAL REV A	3/25/83																		
FD :07															FD: 07												
MET :005	7	8	9	10	11	12	13	14	15	16	17	18	19														
CDR	IMU RVNR MNVVR	ZLV NOSE 1ST	PRE SLEEP ACT	SLEEP									POST SLEEP ACT	TPR MSG REVIEW	IMU RVNR MNVVR	TAIL SUN	MEAL										
PLT			PRE SLEEP ACT	SLEEP									POST SLEEP ACT	TPR MSG REVIEW			MEAL										
MS1			PRE SLEEP ACT	SLEEP									POST SLEEP ACT	TPR MSG REVIEW			MEAL										
MS2			PRE SLEEP ACT	SLEEP									POST SLEEP ACT	TPR MSG REVIEW			MEAL										
DAY/NIGHT																											
ORBIT	<table border="1"> <tr> <td>86</td> <td>87</td> <td>88</td> <td>89</td> <td>90</td> <td>91</td> <td>92</td> <td>93</td> </tr> </table>														86	87	88	89	90	91	92	93					
86	87	88	89	90	91	92	93																				
GSTDN COVERAGE	<table border="1"> <tr> <td>-IOS</td> <td>-GWM -HAM</td> <td>-ACN</td> <td>-GWM</td> <td>-AGO -ACN -DKR</td> <td>-GWM</td> <td>-DKR -MAD -MAX</td> <td>-MAX</td> <td>-IOS -YAR -ORR</td> <td>-DKR -MAD</td> <td>-IOS -YAR -ORR</td> <td>-DKR -MAD</td> <td>-IOS -YAR -ORR</td> </tr> </table>														-IOS	-GWM -HAM	-ACN	-GWM	-AGO -ACN -DKR	-GWM	-DKR -MAD -MAX	-MAX	-IOS -YAR -ORR	-DKR -MAD	-IOS -YAR -ORR	-DKR -MAD	-IOS -YAR -ORR
-IOS	-GWM -HAM	-ACN	-GWM	-AGO -ACN -DKR	-GWM	-DKR -MAD -MAX	-MAX	-IOS -YAR -ORR	-DKR -MAD	-IOS -YAR -ORR	-DKR -MAD	-IOS -YAR -ORR															
SGLS COVERAGE	<table border="1"> <tr> <td>-IOS</td> <td>-GTS -HTS</td> <td>-GTS</td> <td>-GTS</td> <td>-GTS</td> <td>-GTS</td> <td>-DKR</td> <td>-DKR</td> <td>-IOS</td> <td>-BDA -DKR -MAD</td> <td>-IOS</td> <td>-DKR -MAD</td> <td>-IOS</td> </tr> </table>														-IOS	-GTS -HTS	-GTS	-GTS	-GTS	-GTS	-DKR	-DKR	-IOS	-BDA -DKR -MAD	-IOS	-DKR -MAD	-IOS
-IOS	-GTS -HTS	-GTS	-GTS	-GTS	-GTS	-DKR	-DKR	-IOS	-BDA -DKR -MAD	-IOS	-DKR -MAD	-IOS															
TV DEORB EDW NDR																											
ATTITUDE	IMU	-ZLV NOSE 1ST											IMU	TAIL SUN	18:37												
MNVR																											
EXPT																											
TLX																											
NOTES:	<p>● VRCS ● CHANGEOUT</p> <p style="text-align: center;">WAVEOFF</p> <p style="text-align: right;"> ● CHANGEOUT ○ ST TRKR SELF TEST ● HI LOAD DUCT HTR ● MNVR TO TAIL SUN-PRCS ● HI LOAD EWAP ON </p>																										

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE		
095:13:30 / 096:01:30	005:19:00 / 006:07:00	095:07:30 / 095:19:30	07 / 095 GMT	-18.8		APRIL 5, 1983	STS 6	FINAL REV A	3/25/83		
TIC											
FD : 07	-3	-2	-1	0	1	2	3	4	5	6	7
MET : 005 19	20	21	22	23	MET:006			DOY:096			
CDR	MEAL	PLBD OPS									
PLT	MEAL	PLBD OPS									
MS1	MEAL										
MS2	MEAL										
DAY/NIGHT	[Day/Night Cycle Bar]										
ORBIT	94	95	96	97	98	99	100	101			
GSTDN COVERAGE	MIL, NLX, BDR, DKR, IOS, YAR, DR	CDX, MIL, NLX, BDR, DKR, ACN	YAR, BDR, DKR, ACN, BOT	HAW, GDX, NLX, ACN, BOT	CDX, MIL, NLX, ACN, BOT	HAW, GDX, NLX, ACN, BOT	YAR, GMM, HAW, ACN, BOT	CDX, MIL, NLX, ACN, BOT	HAW, GDX, NLX, ACN, BOT	YAR, GMM, HAW, ACN, BOT	CDX, MIL, NLX, ACN, BOT
SCLS COVERAGE	NHS, IOS, VTS, HTS	VTS, HTS, NHS	VTS, HTS	GTS, HTS, VTS	GTS, HTS, VTS	GTS, HTS, VTS	GTS, HTS, VTS	GTS, HTS, VTS	GTS, HTS, VTS	GTS, HTS, VTS	GTS, HTS, VTS
TV											
DEORB EDN	↑ 20:09	↑ 21:44	↑ 23:19	↑ 00:54							
NOR	↑ 20:12	↑ 21:47	↑ 23:22	↑ 00:57							
ATTITUDE	TAIL SUN	IMU	BURN ATT								
MNVS											
EXPT											
TLM											
NOTES:	▲ LAST MEAL CLEANUP ▲ RESET C/W ■ APU HTR ACT ▲ SECURE AFT STA ■ SSME HYD REPRESS										
	WAVEOFF										

CIU FAILURE

The CIU FAILURE timeline assumes a total CIU failure (command and telemetry). It is assumed that the failure occurs during ascent. This timeline accommodates SCF IUS commanding and telemetry monitoring without turning the IUS transmitter on when the IUS/TDRS is not elevated. This is accomplished by raising/lowering the tilt table at 0/04:20 MET and by raising the tilt table earlier prior to the nominal 8D deployment.

CIU FAILURE

GMT (D:H:M)	MET (D:H:M)	CST (D:H:M)	FD/ DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
089:18:30 / 090:06:30	000:00:00 / 000:12:00	089:12:30 / 090:00:30	01 / 089 GMT	-22.9	☉	MARCH 30, 1983	STS 6	FINAL REV A	3/25/83	
GMT :089	19	20	21	22	23	24	25	26	27	
FD :01										
MET :000										
CIU FAILURE T/L										
CDR		PLBD OPS	POST INSERTION		HK		MEAL		HK	
PLT	LAUNCH OMS 1	OMS 2	PLBD OPS	POST INSERTION	HK	UNSTOM CABIN EQUIP	MEAL PREP		MEAL	HK
MS1			PLBD OPS	POST INSERTION			HK		MEAL	
MS2			PLBD OPS	POST INSERTION			HK		MEAL	TV ACT
DAY/NIGHT	[Shaded Day/Night Pattern]									
ORBIT	[Orbit Diagram]									
GSTDN COVERAGE	-YHR -HAM -BDR -ACN -BOT -GWS -MLX -ACN -IOS -GMM -HAM -AGO -ACN									
SCLS COVERAGE	-HTS -VTS -GTS -VTS -GTS -VTS -GTS -VTS -GTS -VTS -GTS -VTS -GTS -VTS -GTS -VTS -GTS -VTS -GTS -VTS									
TV	DEORB EDW 1 00:44 1 02:19 1 03:54 NOR 1 00:46 1 02:21 1 03:56									
ATTITUDE	-ZLV NOSE NORTH IMU (TDRS/IUS CK ATT) -ZLV NOSE 1ST IUS CK ATT TDRS CK ATT DPLY ATT SEP IUS VIEW MTR -ZLV									
EXPT	64 KBPS									
TLN	[Timeline]									
NOTES:	<ul style="list-style-type: none"> ▲ IUS TO ORB PHR ▲ PHR IUS BATT HTRS ▲ 64 TO 16 KBPS ● TDRS PI CK (ACN) ● TDRS DIRECT CK (HAM) ● Y-POP (NOSE FWD) ● START TRACKING (GMM) ○ COAS CAL FWD STATION ● TDRS CK ATT ● TDRS DIRECT CK (HAM) ● AUTO MNVR DEPLOY ▲ DPLY COUNT DN ▲ PHR XFER ▲ RELEASE UMB ■ DEPLOY IUS ▲ TILT TBL TO -6 * IUS SRM-1 IGNITION ● POST DPLY CLEANUP 									

STS-6 CIU FAILURE

CDR/PLT

MS1/MS2

MCC

RTS CSTDN

MET DAY 000

02:00
02:10
02:20
02:30
02:40
02:50
03:00

A1 (B1)
AUTO
VERN
RT 0.2
DB 1.0

ACTIVITIES FROM 0/00:00 TO 0/02:55 ARE IN THE ASCENT C/L AND THE POST INSERTION C/L

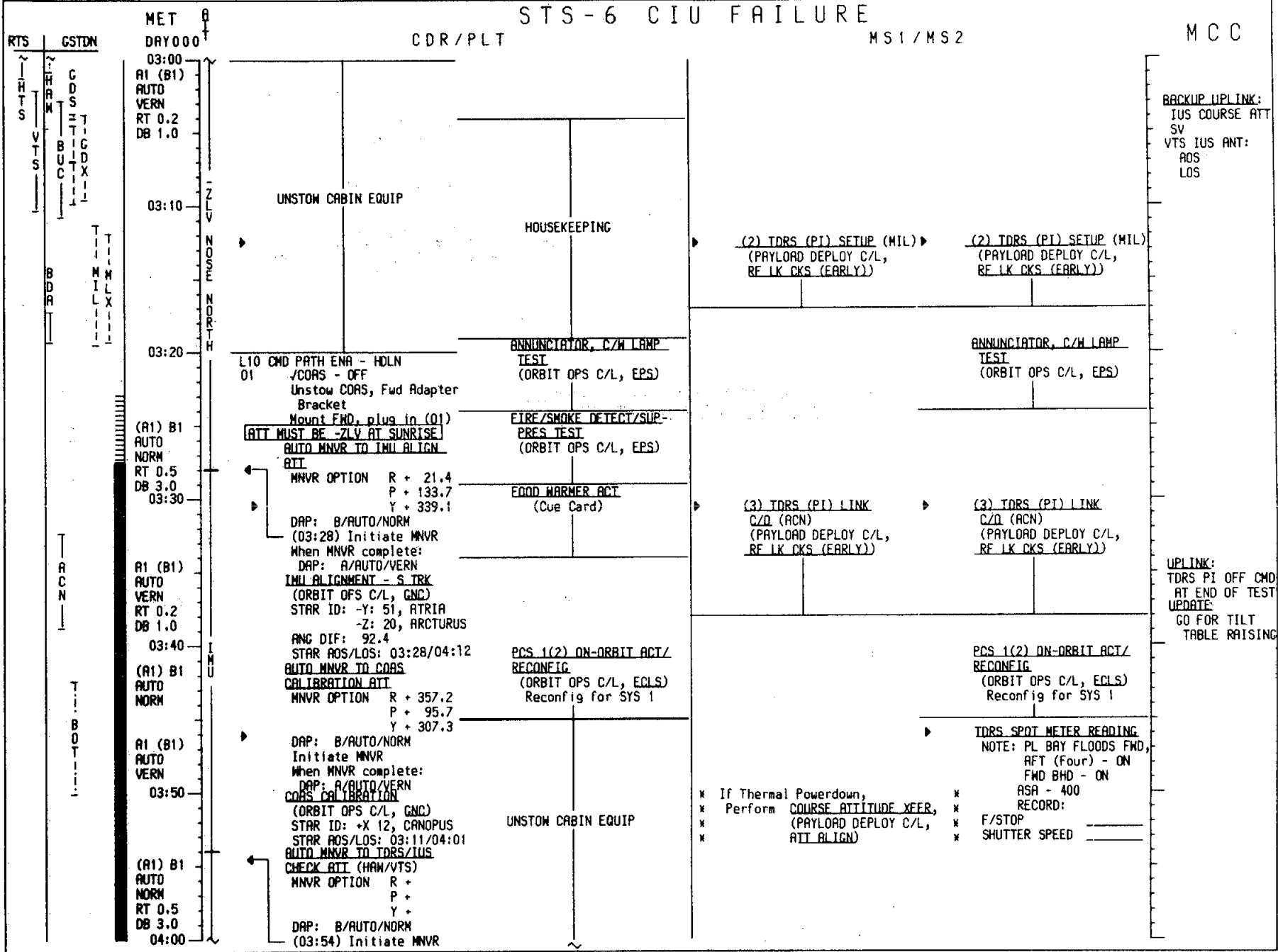
```

* If thermal powerdown,
* add, in POST INSERTION C/L, MNVR to:
* ATT FOR COURSE ATT UPLINK for HTS, VTS
* MNVR OPTION R +
* P +
* Y +
* DAP: B/AUTO/NORM
* ( ) INITIATE MNVR
*
* WHEN MNVR COMPLETE:
* A/AUTO/VERN
* L10 CMD PATH ENA - RF (Prior to HAW)
* Report to MCC in ATT at HAW
    
```

```

If thermal powerdown,
UPLINK:
IUS COURSE ATT
SV
HTS IUS ANT:
AOS
LOS
    
```

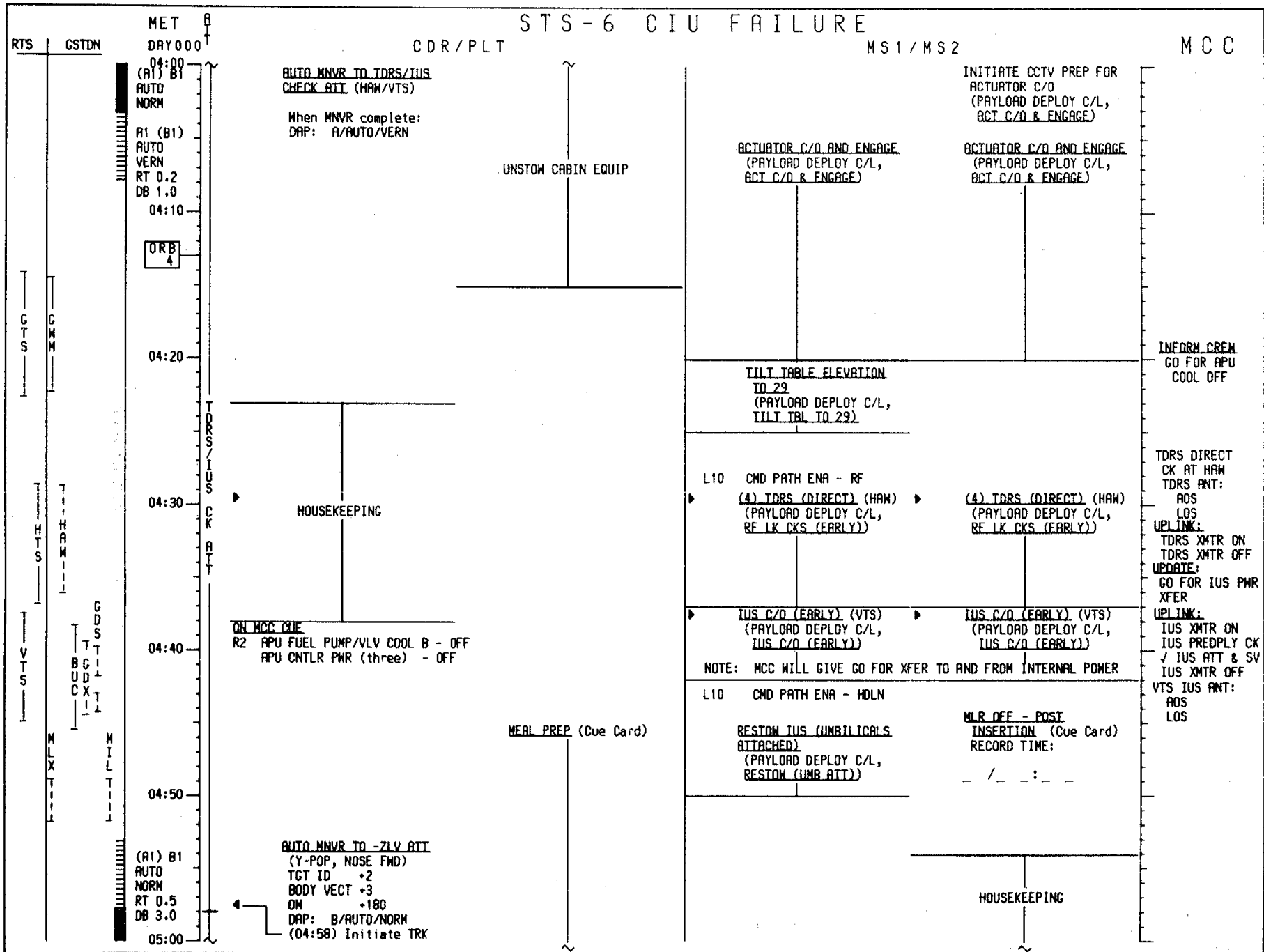
STS-6 CIU FAILURE

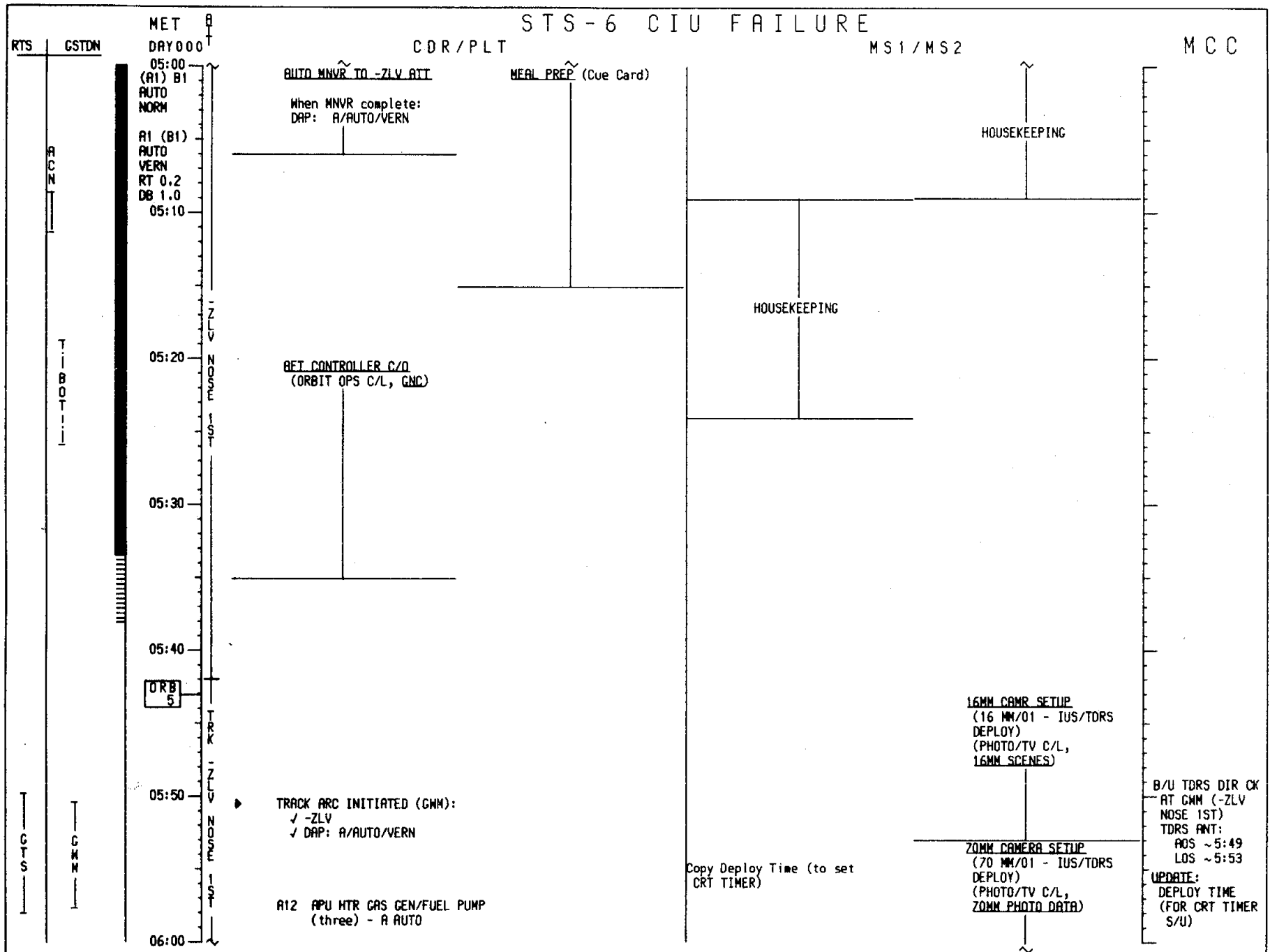


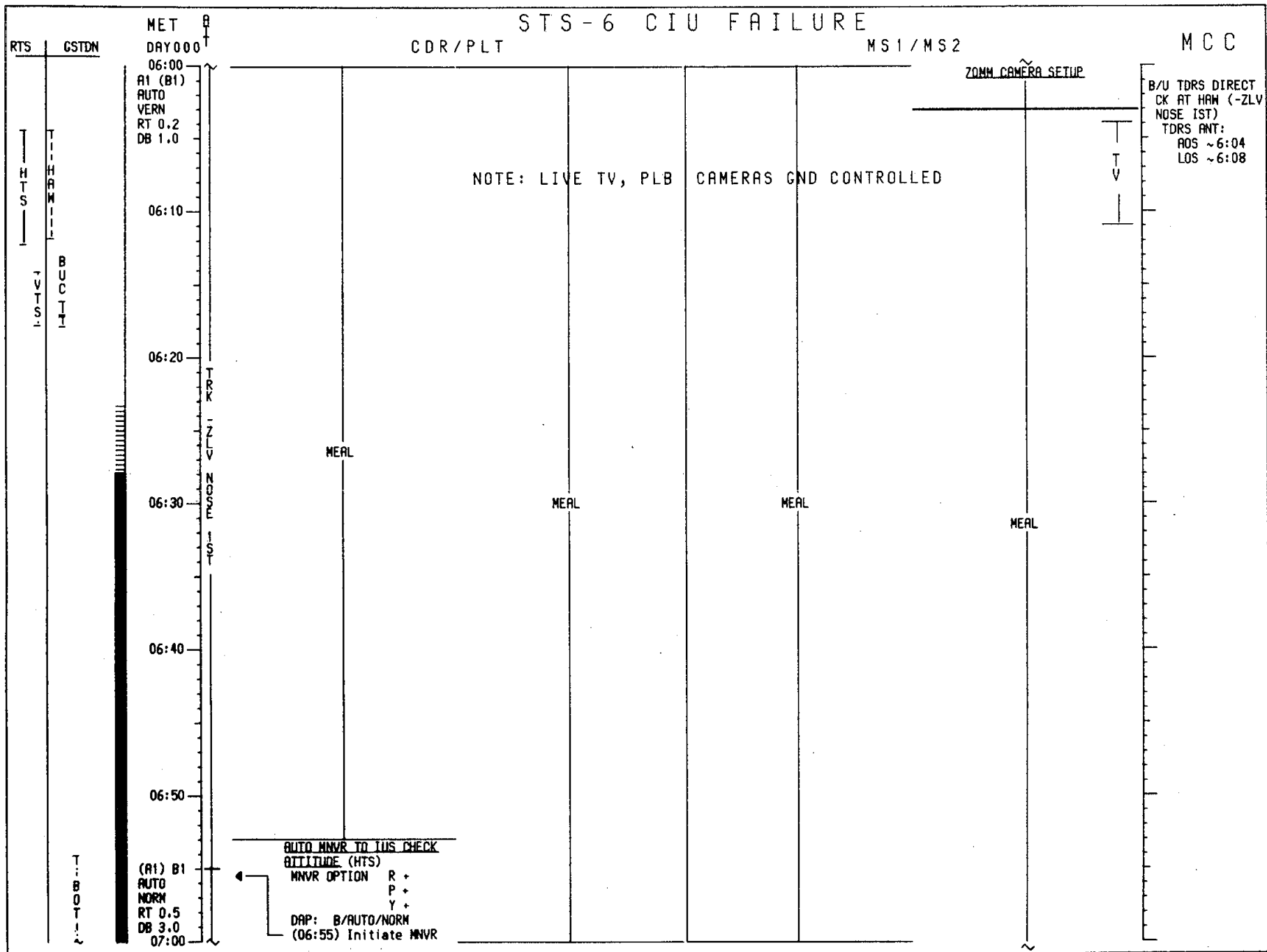
BACKUP UPLINK:
IUS COURSE ATT
SV
VTS IUS ANT:
AOS
LOS

UPLINK:
TDRS PI OFF CMD
AT END OF TEST
UPDATE
GO FOR TILT
TABLE RAISING

* If Thermal Powerdown,
* Perform COURSE ATTITUDE XFER,
* (PAYLOAD DEPLOY C/L,
* ATT ALIGN)







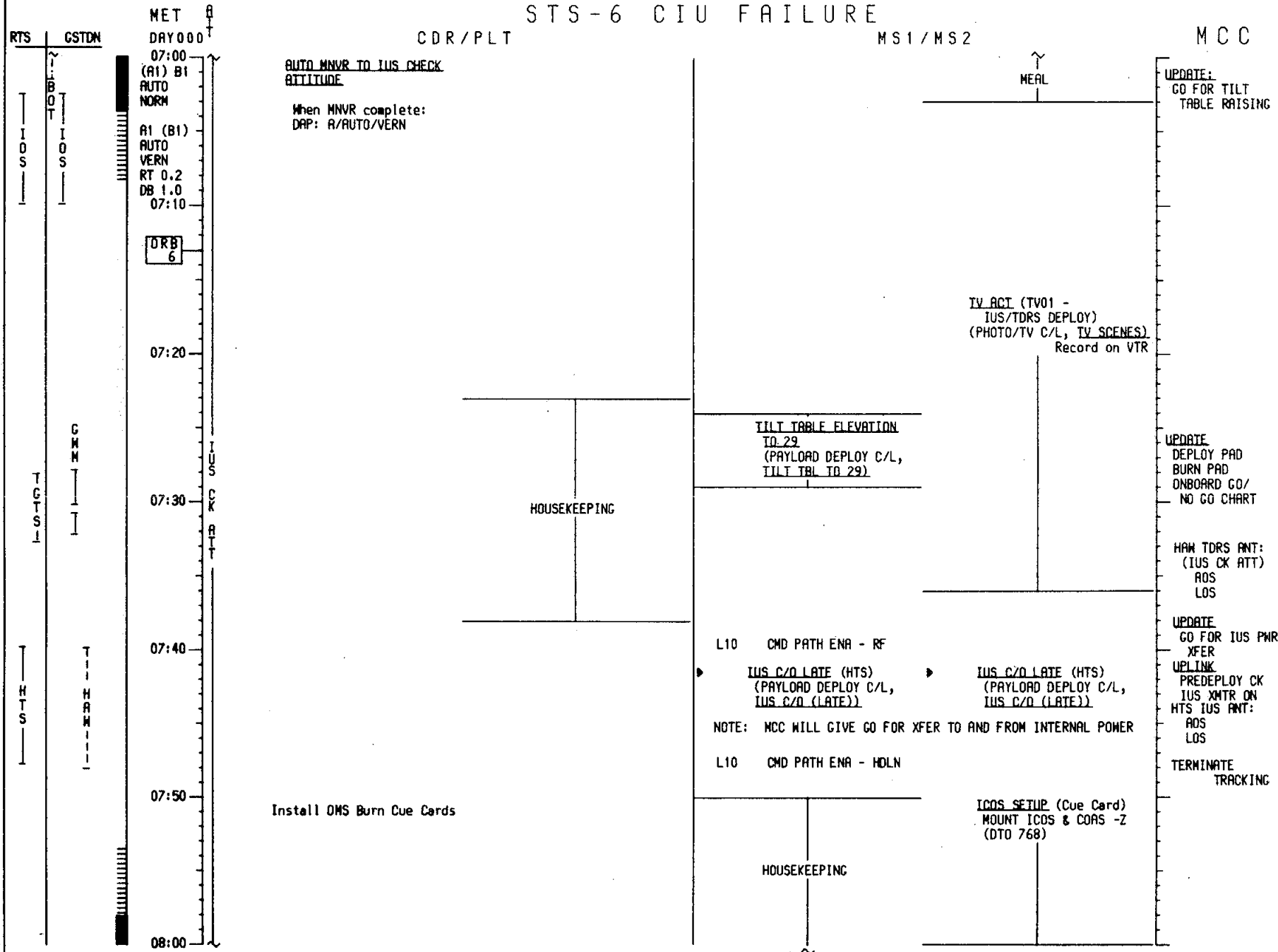
AUTO MNVR TO IUS CHECK

ALTITUDE (HTS)

MNVR OPTION R +
P +
Y +

DAP: B/AUTO/NORM
(06:55) Initiate MNVR

STS-6 CIU FAILURE



STS-6 CIU FAILURE

RTS CSTDN

CDR/PLT

MS1/MS2

MCC

MET

DAY 000

08:00

A1 (B1)

AUTO

VERN

RT 0.2

DB 1.0

08:10

HOUSEKEEPING

08:20

(A8) B1

AUTO

NORM

RT 0.5

DB 3.0

← AUTO MNVR TO TDRS CHECK
ATTITUDE
(PAYLOAD DEPLOY C/L,
MNVR TO TDRS ATT)
NOTE: DAP: B/AUTO/NORM
DAP TRANS: NORM/NORM/LOW Z

08:30

A8 (B1)

AUTO

VERN

RT 0.2

DB 1.0

When MNVR complete:
DAP: A/AUTO/VERN

RE CHECKS (LATE) PART I
(PAYLOAD DEPLOY C/L,
RE CYS I (LATE))

08:40

DRB

7

08:50

09:00

HOUSEKEEPING

HOUSEKEEPING

✓ PL BAY FLOODS FWD,
AFT (Four) - ON
FWD BHD - ON

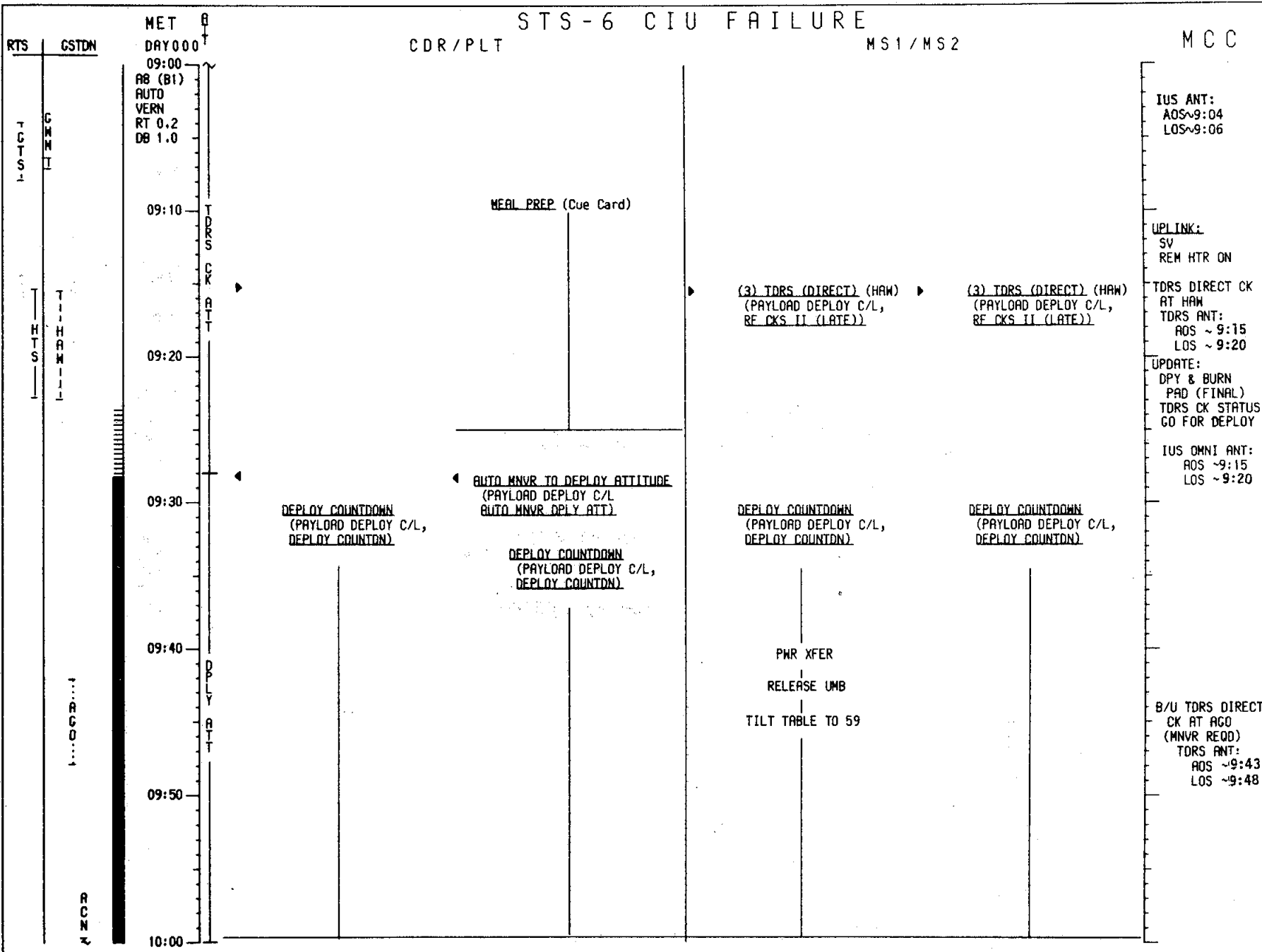
UNLINK
TDRS CMD

STS-6 CIU FAILURE

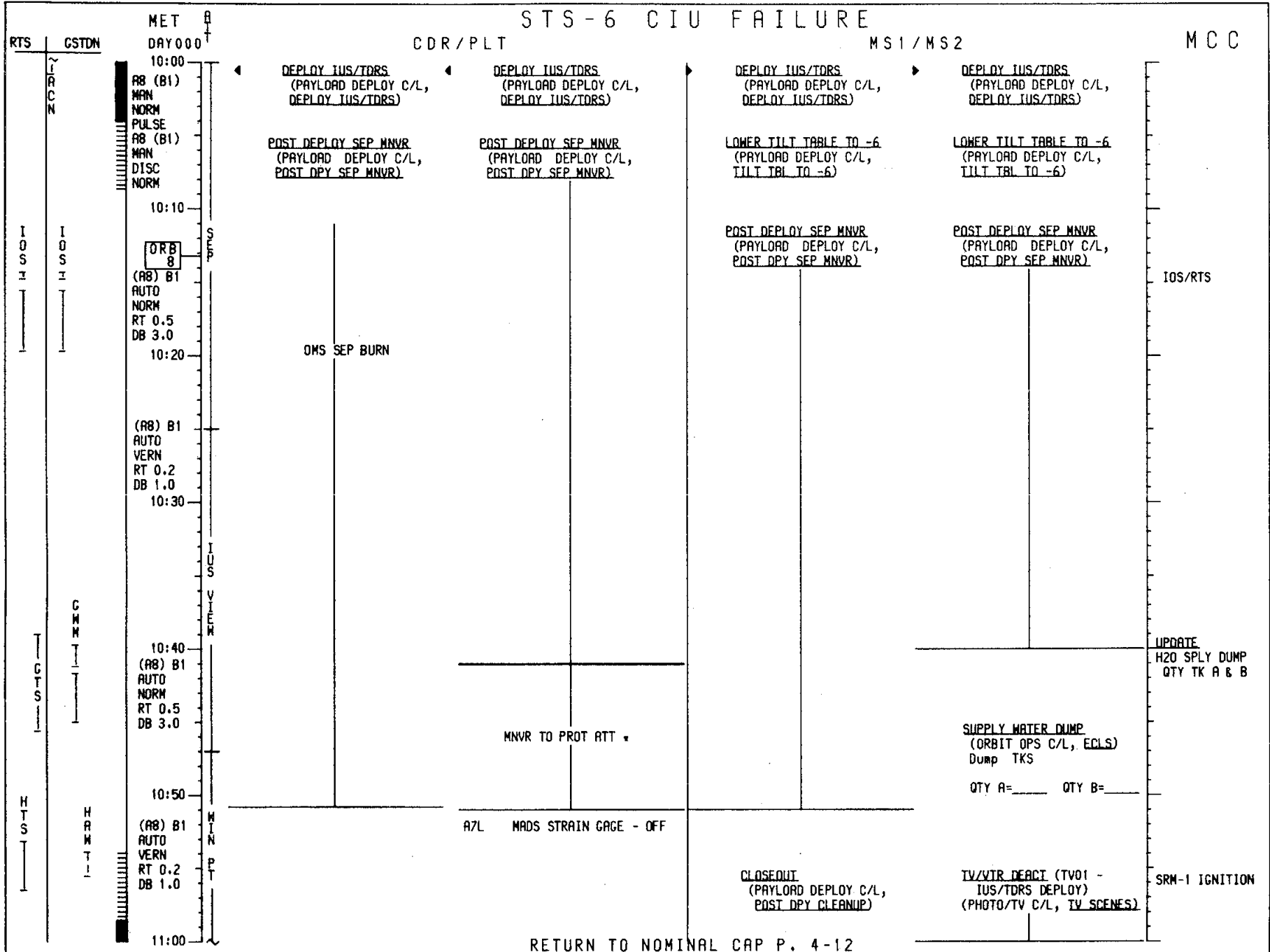
CDR/PLT

MS1/MS2

MCC



STS-6 CIU FAILURE



RETURN TO NOMINAL CAP P. 4-12

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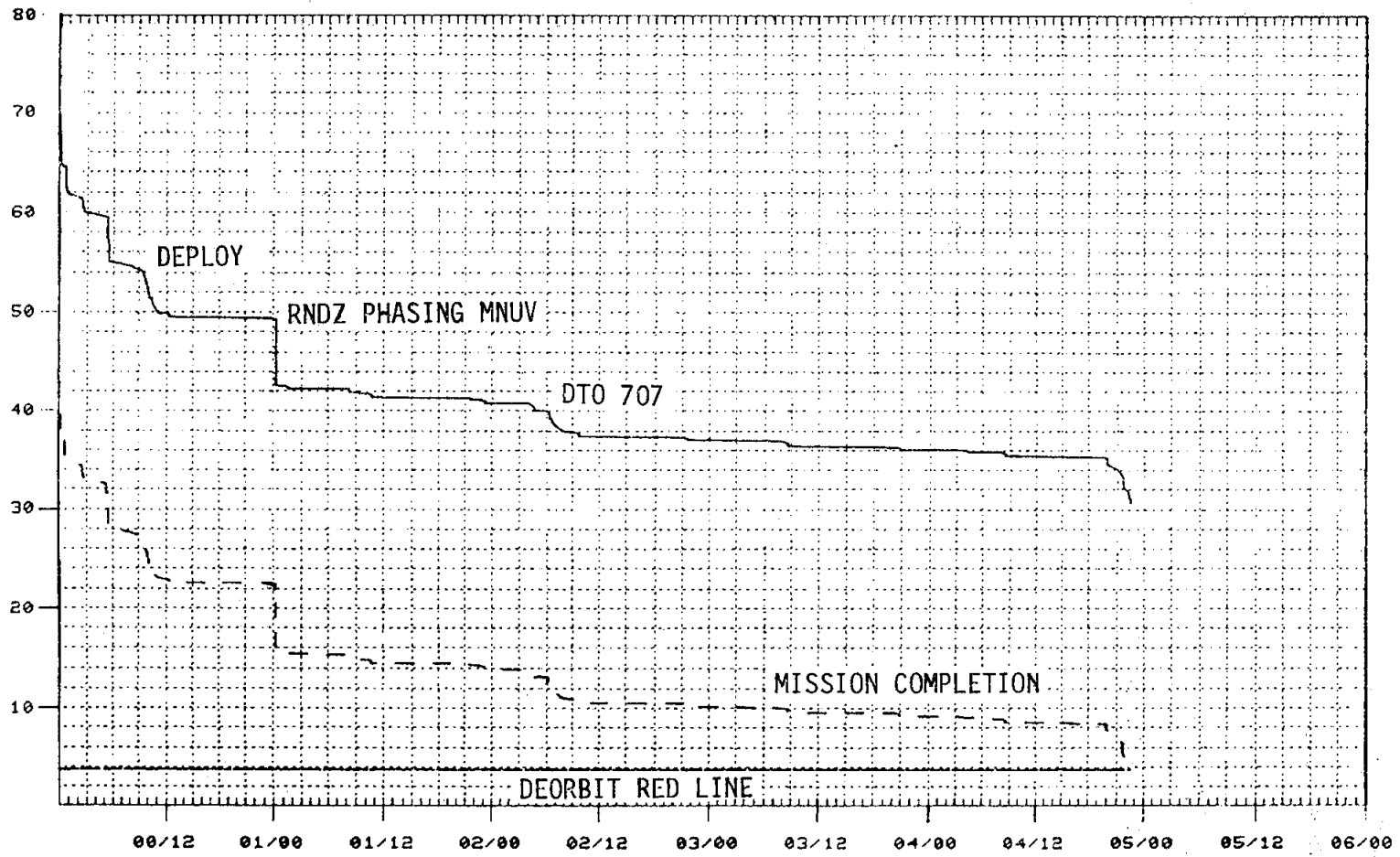
CONSUMABLES CURVES

FORWARD RCS PROP REMAINING..... 6-2
AFT RCS PROP REMAINING..... 6-3
OMS PROP REMAINING..... 6-4
SUPPLY WATER..... 6-5
CRYO OXYGEN PROFILE..... 6-6
CRYO HYDROGEN PROFILE..... 6-7

CONSUMABLES
CURVES

STS-6 FORWARD RCS PROP REMAINING(% GAGE)

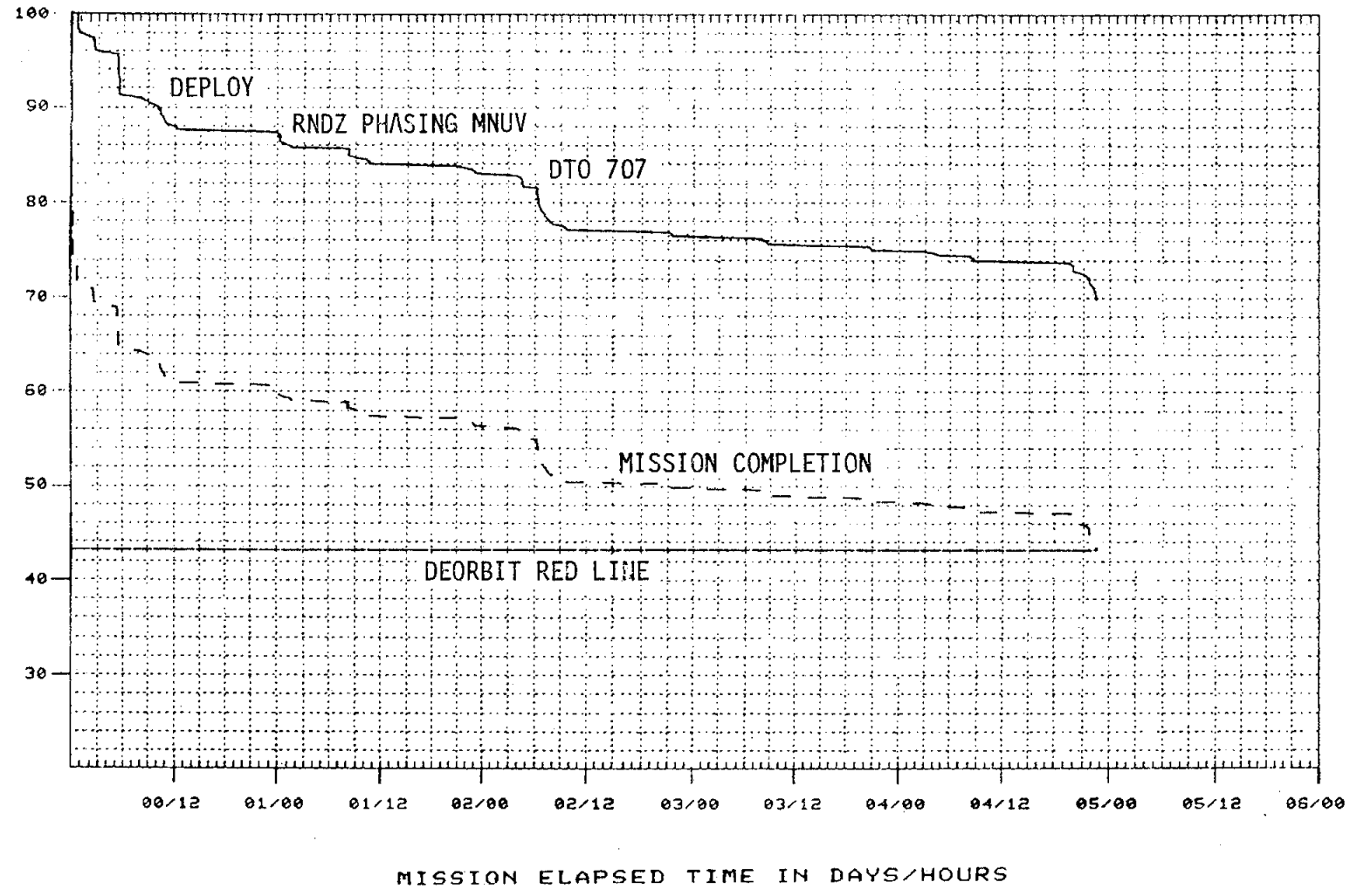
FORWARD RCS PROP REPLENISHING



MISSION ELAPSED TIME IN DAYS/HOURS

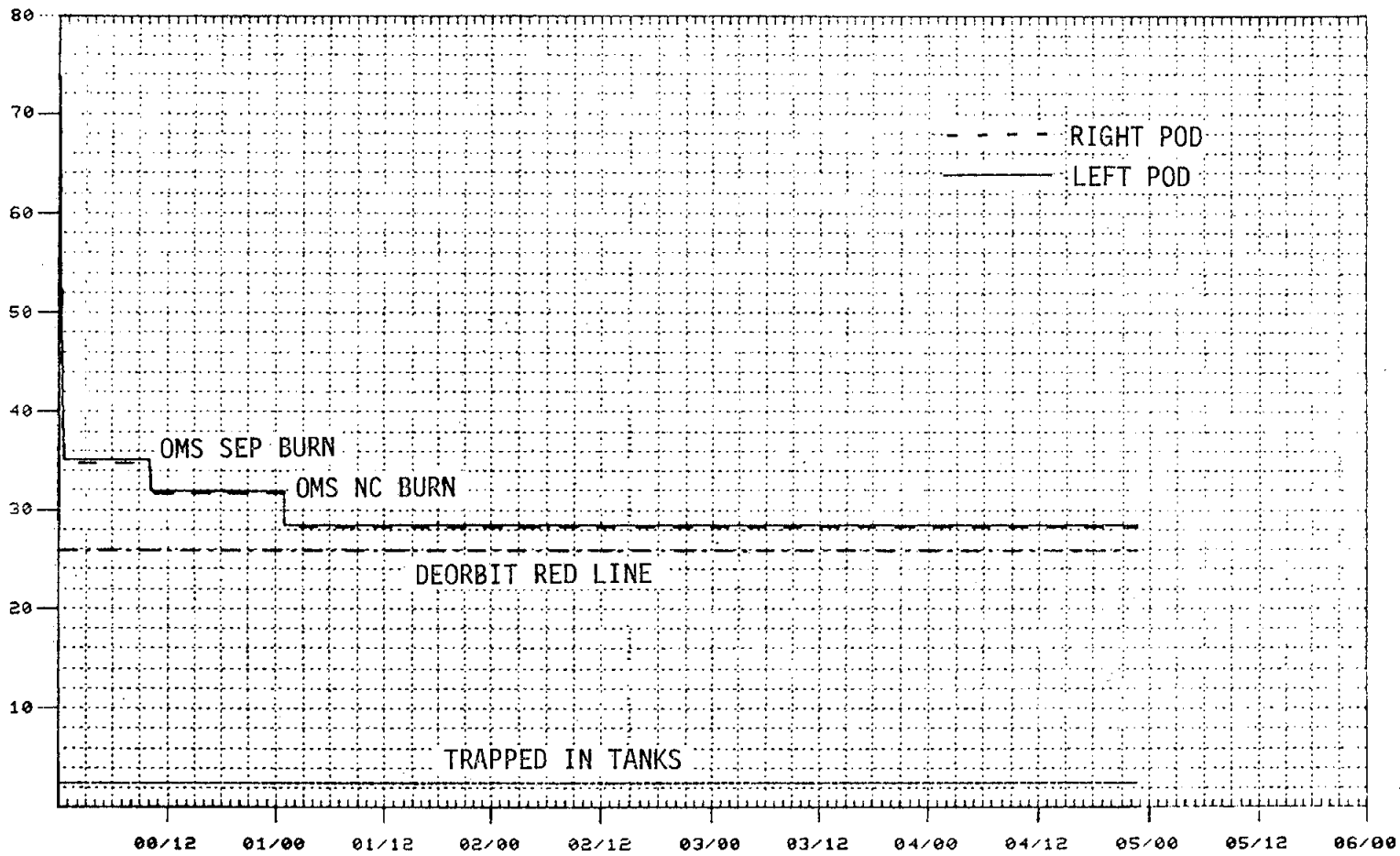
ALT RCS GAGE PROP REEFTING

STS-6 AFT RCS PROP REMAINING(% GAGE)



STS-6 OMS PROP REMAINING(% GAGE)

OMS PROP REMAINING



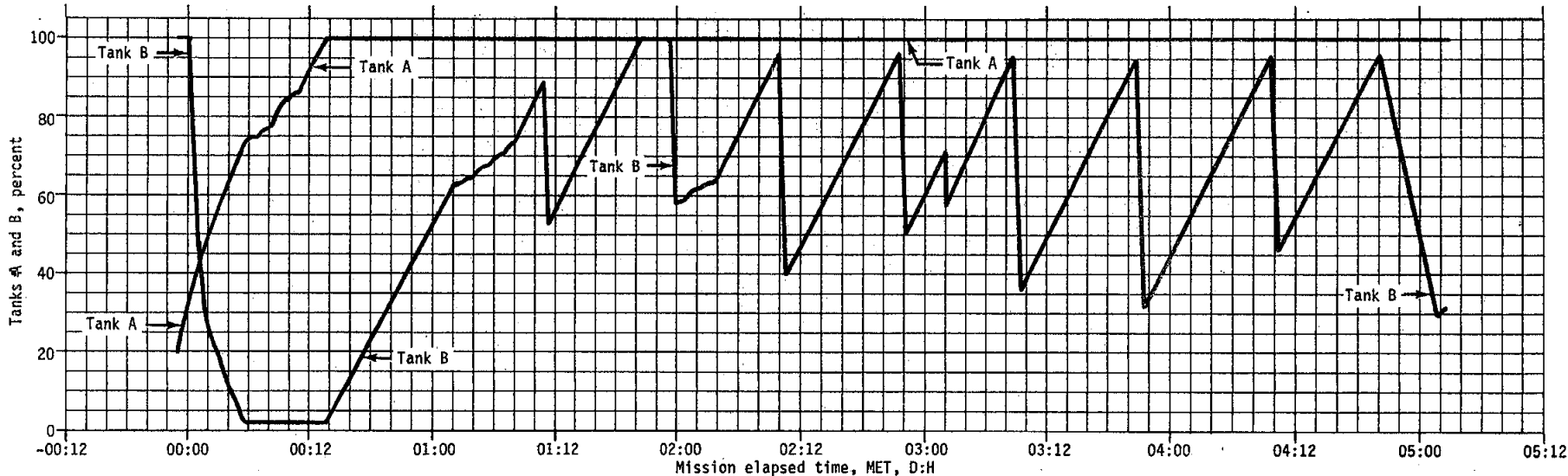
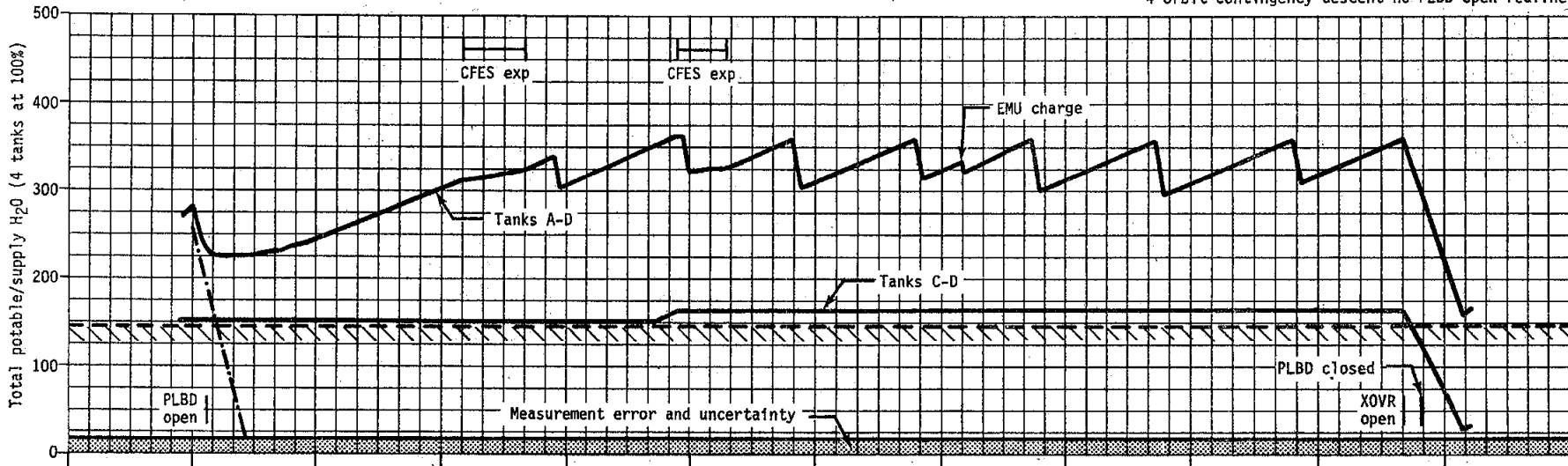
MISSION ELAPSED TIME IN DAYS/HOURS

D. W. Heath, E. E. Fisher/FPB/MPAD

Data Source JSC 18177 (CAP) 1/3/83

Data confirmed *David W. Heath*

--- Anytime contingency deorbit (165 min) redline
- - - - - 4 orbit contingency descent no PLBD open redline



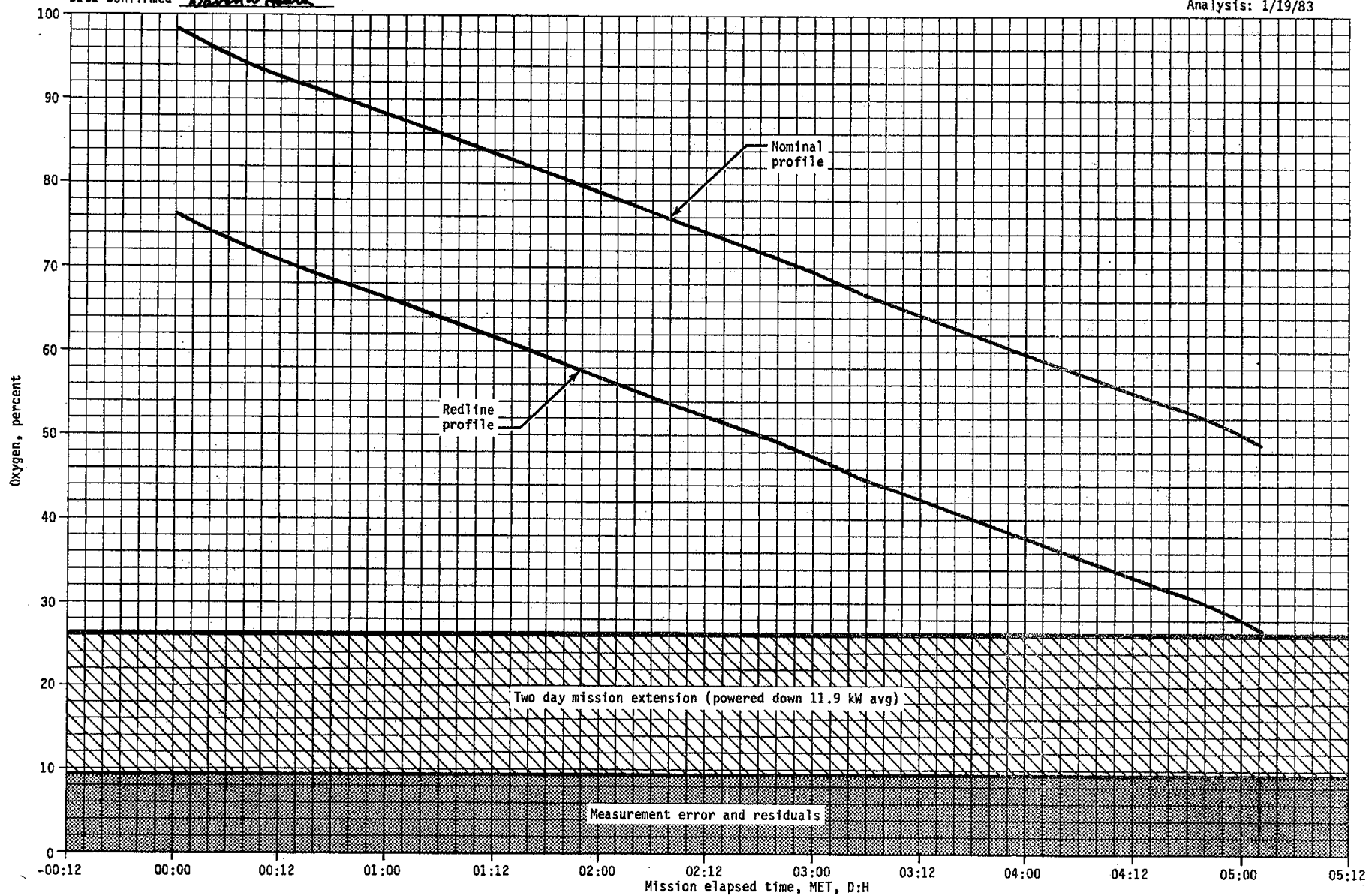
STS-6 supply water.

9-9
STS-6/FIN

E. Fisher, Sr., T. Cleghorn, S. Price/FPB/MPAD
Data Source JSC 18177 (CAP) 1/3/83
Data confirmed David W. Heath

Trajectory: Cycle 3
CAP: Final
Analysis: 1/19/83

9-9

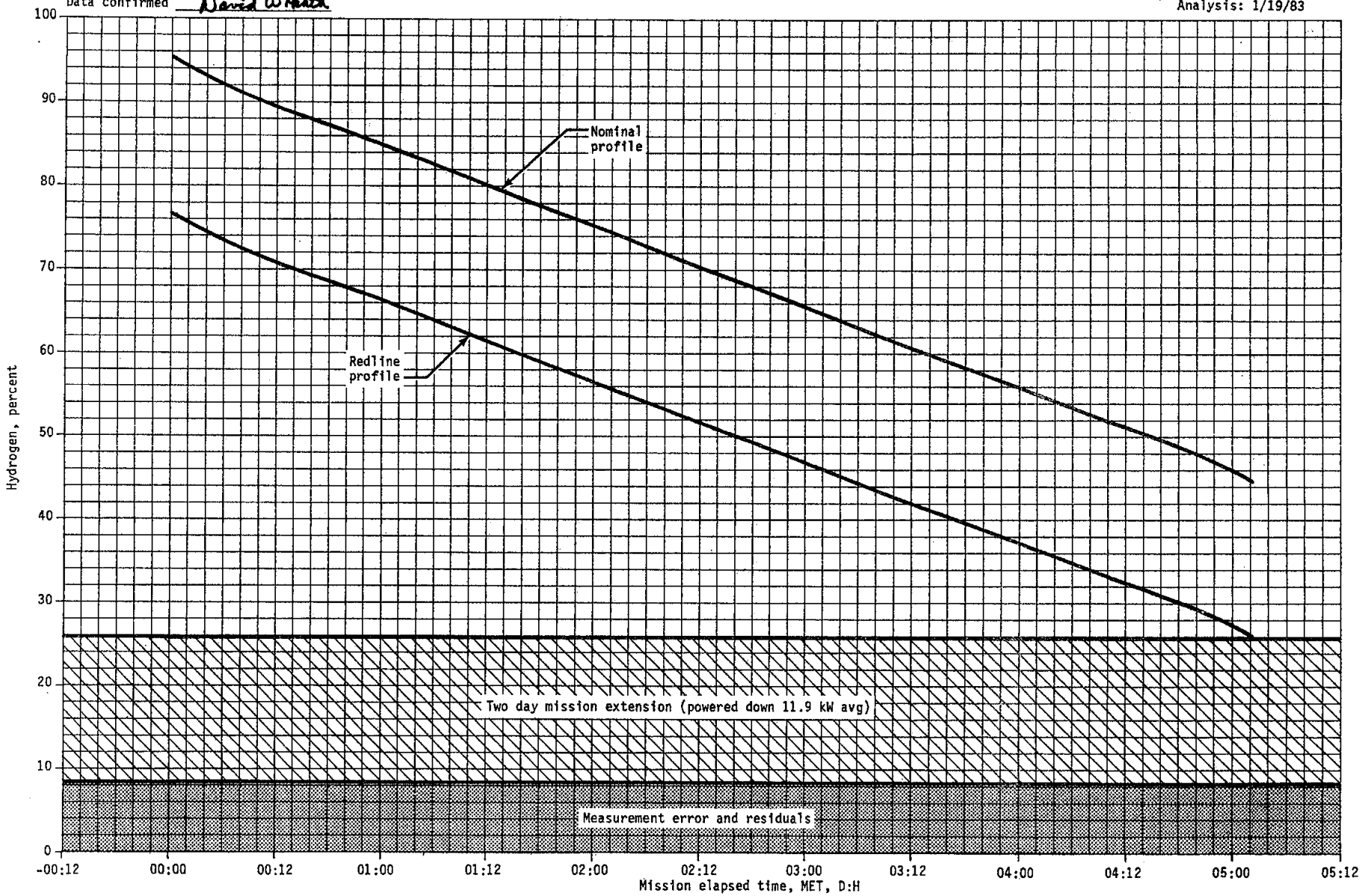


STS-6 cryogenic oxygen profile

STS-6/FIN A

E. Fisher, Sr., T. Cleghorn, S. Price/FPB/MPAD
Data Source JSC 18177 (CAP) 1/3/83
Data confirmed David W. Heath

Trajectory: Cycle 3
CAP: Final
Analysis: 1/19/83



STS-6 cryogenic hydrogen profile

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

CREW ACTIVITY PLAN NOTES
(CONSTRAINTS AND GUIDELINES)

FLIGHT DESCRIPTION..... 7-2

CREW..... 7-3

ORBITER SYSTEMS..... 7-3

 COMMUNICATIONS AND INSTRUMENTATION..... 7-3

 GUIDANCE AND NAVIGATION..... 7-4

 ENVIRONMENTAL CONTROL AND LIFE SUPPORT SUBSYSTEM (ECLS)..... 7-4

TEXT UPLINK SYSTEM..... 7-5

REMOTE MANIPULATOR SYSTEM..... 7-5

PAYLOADS..... 7-5

CAD NOTES

(CONSTRAINTS AND GUIDELINES)

A. FLIGHT DESCRIPTION

STS-6 will launch from KSC on March 30, 1983, into a 153.5-NM orbit at an inclination of 28.5°. The flight duration will be 6 flight days (~120 hrs). Nominal landing will occur at EDW on April 4, 1983.

		<u>LANDING ORBIT NO.</u>	<u>SITE</u>	<u>LOCAL TIME</u>
Nominal	Primary	81	EDW	10:49
	Backup	82	EDW	12:23
	Weather Alternate	81	NOR	11:51
1 Day Late	Primary	97	EDW	10:49
	Backup	98	EDW	12:24
	Weather Alternate	97	NOR	11:51
2 Days Late	Primary	113	EDW	10:50
	Backup	114	EDW	12:25
	Weather Alternate	113	NOR	11:52

MAJOR EVENTS

LAUNCH (KSC) 30 March 1983
MET(DD:HH:MM:SS) 0/00:00:00
Day of Year 89
CST/GMT 12:30/18:30

MECO
MET (DD:HH:MM:SS) 0/00:08:23
ALT (nm) 57

OMS-1
MET (DD:HH:MM:SS) 0/00:10:23
 ΔV (fps) 225.6
 ΔT (MM:SS) 2:27
ORBIT ha/hp (nm) 153.5 x 49

OMS-2
MET (DD:HH:MM:SS) 0/00:43:46
 ΔV (fps) 185.8
 ΔT (MM:SS) 1:58
ORBIT ha/hp (nm) 153.5 x 153.5

TDRS/IUS DEPLOY (8D OPPORTUNITY)
MET (DD:HH:MM:SS) 0/10:01:22

OMS SEPARATION BURN
MET (DD:HH:MM) 0/10:20:25
 ΔV (fps) 40
ORBIT ha/hp (nm) 175 x 153

IUS SRM-1 IGNITION
(DD:HH:MM:SS) 0/10:56:38

IUS SRM-2 IGNITION
(DD:HH:MM:SS) ~0/16:08:00

RNDZ PHASING MNVR 1
MET (DD:HH:MM) 1/00:43
 ΔV (fps) 5
ORBIT ha/hp (nm) 150 X 175

RNDZ PHASING MNVR 2
MET (DD:HH:MM) 1/01:28
 ΔV (fps) 45
ORBIT ha/hp (nm) 150 X 150

DEORBIT BURN
MET (DD:HH:MM:SS) ~4/23:19
 ΔV (fps) 282
 ΔT (MM:SS) 279.1
ORBIT ha/hp (nm) 149 X -3

LANDING (EDW)
MET (DD:HH:MM:SS) 5/00:19
Day of year 94
CST/GMT 12:49/18:49

B. CREW

1. A typical crew day will be that specified in the STS Work Day Handbook (Ref. 3). The daily on-orbit STS activities and their scheduling constraints are identified in the referenced document.
2. The crew will launch with an emergency egress harness restraint over Intravehicular Activity (IVA) clothing.
3. All crewmembers will launch wearing the Launch/Entry Helmets (LEH). After ascent, the Wireless Communication Control Units (WCCUs) are unstowed and distributed to the crew. Prior to seat ingress on entry day, the WCCUs are stowed, and the LEHs are donned for entry until landing.

C. ORBITER SYSTEMS

1. Communications and Instrumentation
 - a. The Operational Instrumentation (OI) system will nominally be managed from the ground through uplink RTC commands coordinated with the crew.
 - b. The Modular Auxiliary Data System (MADS) will nominally be managed through uplink RTC commands and crew switch actions.

- c. There are 13 GSTDN sites available for on-orbit coverage: ORR, GDS, MIL, BDA, HAW, GWM, AGO, ACN, MAD, YAR, BOT, DKR and BUC.
- d. There are 3 GSTDN sites available for real-time TV: GDS (GDX), MIL (MLX), and HAW.
- e. There are 2 GSTDN sites available for UHF voice only: YAR and BOT.
- f. There is 1 SGLS site available for on-orbit coverage: IOS.
- g. There are 5 RTS sites available for on-orbit coverage: GTS, HTS, NHS, VTS, & IOS. Only IOS provides Orbiter coverage through the SGLS mode. The other 4 provide payload support.

2. Guidance and Navigation

- a. The Orbiter state vector is uplinked whenever errors in the on-board vector become greater than 2 nm. This is estimated to occur approximately every 2 orbits.
- b. IMU alignments are scheduled approximately every 12 hours morning and evening activities and prior to major events requiring low navigation uncertainty.
- c. The on-orbit avionics configuration is listed below. GPC 2 may be shut down during orbit to reduce electrical loads, with it being powered up when redundancy is required.

GPC 1	- RUN (GNC)
GPC 2	- RUN (GNC)
GPC 4	- RUN (SM)
GPC 3	- OFF (FREEZE-DRIED)
GPC 5	- OFF (BFS)
IMUs (3)	- OPERATE
STAR TRACKERS (2)	- ON
MASS MEMORY UNITS (2)	- ON
FLIGHT CRITICAL MDMs (8)	- ON

3. Environmental Control and Life Support Subsystem (ECLSS)

- a. The CO₂ absorbers are installed for launch and entry and are alternately replaced as described in Ref 3, and shown in Table 9-2.
- b. The four supply water tanks and one waste water tank are loaded for launch with volumes sufficient to meet an orbit 3 launch day deorbit opportunity with PLBDs failed closed. (TK A = 50%, TK B = 100%, TK C = 67%, TK D = 67%, Waste TK = 50%). If waste water production exceeds storage capacity, a real-time call will be made to perform a dump. No dumps are estimated to occur. Potential supply water dumps are scheduled, based upon predicted fuel cell water production, and are shown in Table 9-3. A real-time call will be made prior to each to inform the crew whether a dump is required,

and to what level. Tanks A and B will be dumped to a level that will allow the tanks to be full prior to the next daily group of deorbit opportunities.

D. TEXT UPLINK SYSTEM

1. The teleprinter (TPR) will provide an on-orbit capability to receive and reproduce text-only data (such as procedures, weather data, and CAP updates or changes) from MCC during routine and off-nominal situations. The TPR uses S-Band and is not dependent on TDRSS Ku-Band. The TPR can uplink varying lengths of messages requiring from 1 to 2.5 minutes to uplink. Activation includes powering up the unit during Post Insertion. The TPR will remain on continuously until deactivation prior to seat ingress on entry day.

E. TELEVISION/PHOTOGRAPHY

1. The CCTV system provides 2 color cameras for in-cabin coverage and 4 (color) payload bay TV cameras for coverage of payload activities.
2. The video tape recorder (VTR) is available with 30-min cassettes.
3. 16mm, 70mm, and 35mm camera systems are available.

F. REMOTE MANIPULATOR SYSTEM

The RMS will not be carried on this flight.

G. PAYLOADS

1. MLR (Monodisperse Latex Reactor)

The MLR is designed to conduct experiments associated with the introduction of monodisperse latex particles in the near weightlessness of space. The MLR package occupies the space of three middeck lockers. It is activated via a single switch prior to the second sleep period and runs continuously for ~20 hours. Activation and operation times are provided in Table 9-6.

2. TDRS (Tracking and Data Relay Satellite)

The TDRS-A is a communication satellite and will be the first of two spacecraft launched in the process of assembling the Tracking and Data Relay Satellite System. The system will provide a high-capacity communication and data link with the STS as well as other spacecraft and launch vehicles. The nominal IUS/TDRS-A deployment opportunity occurs 55 minutes prior to revolution 8D (descending) at ~0/10:01:22 MET (D/HH:MM:SS). Alternate deployment opportunities occur on the subsequent two orbits (9D and 10D) and the following day (18A).

3. IUS (Inertial Upper Stage)

The IUS is a two-stage, solid-rocket, inertially stabilized upper stage which will place the TDRS-A in a geosynchronous orbit. The IUS ignites its first stage (SRM-1) for transfer orbit insertion 55 minutes after TDRS-A/IUS deployment. The second burn (SRM-2) occurs at approximately 6:07 (hr:min) after deployment, resulting in a 0° inclination, geosynchronous orbit at 55° W longitude for the 8D deployment opportunity.

4. CFES (Continuous Flow Electrophoresis System)

The CFES provides a processing system that can segregate biological samples using a separation process based on the relative motion of charged particles through an electric field (electrophoresis). The CFES payload is located on the Orbiter middeck. A low acceleration level is desired during CFES operations. CFES activation and closeout times are provided in Table 9-5.

5. NOSL (Night/Day Optical Survey of Thunderstorm Lightning)

The NOSL experiment is performed in the Orbiter cabin. The experiment requires the crew for unstowing and setting up in the aft flight deck, for on-orbit operations using targets of opportunity, and for stowage. A -ZLV attitude is desired for taking data.

6. GAS (Get-Away-Special)

The GAS payload is a self-contained experiment package that requires minimal crew activity. For STS-6 three GAS payloads have been defined. (G005, G049, G381). Each payload contains multiple experiments. GAS experiment activation and operation times are provided in Table 9-8.

7. RME (Radiation Monitoring Equipment)

The RME consists of an HRM - III (Handheld Radiation Monitor) and a PRM (Pocket REM Meter). The RME radiation measurement times are provided in Table 9-9.

DETAILED TEST OBJECTIVES (DTOs),
DETAILED SUPPLEMENTARY OBJECTIVES (DSOs)

INTRODUCTION..... 8-2
TABLE 8-1 - STS-6 DTOs..... 8-3
TABLE 8-2 - STS-6 DSOs..... 8-8

DTOs/DSOs

INTRODUCTION

The following Tables describe the scheduling rationale for STS-6 DTOs/DSOs. A detailed description of the DTOs/DSOs may be found in References 1 and 9.

DTOs/DSOs

TABLE 8-1 STS-6 DTOs/FTOs/FSOs (Ref. 1)

DTO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DTO 113	Elevon Position Observation	(POST INSERTION) 2/01:25 2/02/25	After APU shutdown during Post Insertion Before and after control surface movement during FCS C/O
DTO 202	Entry Aerodynamic Test	(ENTRY)	
DTO 209	Entry with Lateral Offset No. 1	(ENTRY)	MADS continuous recording from D/O TIG minus 1.5 minutes thru rollout
DTO 219	ET & SRB Ascent Heating	(ASCENT)	MADS continuous recording from L-5 thru L+12 minutes
DTO 303	TPS Entry Heating Evaluation	(ASCENT)	MADS continuous recording from 400K feet thru rollout
DTO 304	LWT ET Impact Assessment	(AFTER ET SEP)	

TABLE 8-1 STS-6 DTOs/FTOs/FSOs (Ref. 1) (Continued)

DTO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DTO 312	ET TPS Performance	(ASCENT)	
DTO 313	SRB Recovery	(AFTER ET IMPACT)	
DTO 402	PRCS Hot Fire Test	2/06:25	
DTO 507	PLBD Installation and Rigging Verification	(POST INSERTION)	
DTO 509	Orbiter Braking Test No. 2	(ENTRY)	
DTO 602	Cabin Atmosphere Verification	1/00:15 1/21:15 DEORBIT PREP	Three whole gas samples are to be taken
DTO 603	Medical Restraints & Resuscitator Evaluation	Not Scheduled	

TABLE 8-1 STS-6 DTOs/FTOs/FSOs (Ref. 1) (Continued)

DTO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DTO 604	Noise Level Survey	1/04:45	
DTO 611	EMU/EVA Evaluation	3/02:40	
DTO 617	DTO Deleted	(ENTRY)	
DTO 707	S-Band Antennas Performance	2/04:15 2/06:05 2/07:40	High G Maneuvers Four calibrated site passes
DTO 721	Automatic Speech Recognition	2/02:05	
DTO 723	Orbiter/Detached Comm Test		
DTO 751	Air Data Subsystem Performance - Test No. 2	(ENTRY)	
DTO 755	Autoland Performance Verification	(ENTRY)	

TABLE 8-1 STS-6 DTOs/FTOs/FSOs (Ref. 1) (Continued)

DTO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DTO 760	PRCS Plume Impingement Effects	2/06:25	MADS continuous recording of specified jet fires during RCS HOT FIRE test (DTO 402)
DTO 761	Orbiter Systems Vent Model Determination	2/01:25 2/02:30 4/21:10	MADS continuous recording in free drift during APU operation (FS C/O), Hi Load and Topping FES venting
DTO 763	Orbital Aero and Gravity Gradient Torque Measurements - Lo Gravity	Not Scheduled	MADS continuous recording in free drift at each of six specified attitudes
DTO 765	Payload Bay G-Level Measurements	3/20:40	MADS continuous recording in specified attitude holds
DTO 768	ICOS Evaluation	POST DEPLOY 1/06:35 1/08:10	
DTO 770	-Z COAS Calibration	3/20:30	
DTO 773	Star Tracker Horizon Limit Test	Not Scheduled	

TABLE 8-1 STS-6 DTOs/FTOs/FSOs (Ref. 1) (Concluded)

DTO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DTO 805	Crosswind Landing	(ENTRY)	
DTO 807	Rendezvous Phasing	1/00:15 1/00:50 1/21:15 3/07:55 4/02:45	RNDZ PHASING MNVR 1 RNDZ PHASING MNVR 2 RNDZ PHASING MNVR 3 RNDZ PHASING MNVR 4 RNDZ PHASING MNVR 5

TABLE 8-2 STS-6 DSOs (Ref. 2)

DSO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DSO 0401	Validation of Predictive Tests and Countermeasures for Space Motion Sickness	Presleep Activity	Uses C/L and inflight cassette recorder
DSO 0402	Cardiovascular Deconditioning Countermeasure Assessment	(ENTRY)	
DSO 0403	Head and Eye Motion Monitoring During Ascent & Entry	(ASCENT & ENTRY)	
DSO 0404	On Orbit Head & Eye Tracking Tasks	1/10:30 2/02:30 3/23:00 4/23:30	

TABLE 8-2 STS-6 DSOs (Ref. 2) (Continued)

DSO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DSO 0407	Photographic Documentation of Body Fluid Shifts	1/07:40 1/11:00 1/11:05 1/11:15 3/21:15 3/21:20	
DSO 0408	Near Vision Acuity	1/07:20 1/07:45 1/11:05 3/22:30 3/22:10	
DSO 0409	Microbiology Screening Test	2/02:15 3/22:40	
DSO 0410	Audiometry	1/08:50 3/21:30	

TABLE 8-2 STS-6 DSOs (Ref. 2) (Concluded)

DSO NUMBER	TITLE	SCHEDULED (DD/HH:MM)	SCHEDULING REMARKS
DSO 0901	Documentary Televison	0/06:05 1/03:00 1/06:11 2/01:35 2/22:28 3/03:02 3/04:37 3/05:12 3/06:10 FD 5	PLB Camera views prior to IUS/TDRS deploy VTR playback of IUS/TDRS deploy GAS and NOSL experiments CFES experiment and Flight Control System checkout procedure EVA Preparation EVA and AIRLOCK ingress Shopping List TV activities
DSO 0902	Documentary Motion Picture Photography	FD 1 FD 2 FD 2 FD 3 FD 4 FD 4 FD 5	16mm of IUS/TDRS operations & deploy 16mm of CFES experiment operations 16mm of NOSL and GAS experiment operations 16mm of MLR experiment operations 16mm of EVA preparations 16mm of EVA Airlock operations Shopping list of 16mm
DSO 0903	Documentary Still Photography	Not Scheduled	35mm and 70mm photography

TABLES

TABLE 9-1 - ORBITER FUEL CELL PURGES.....	9-2
TABLE 9-2 - CO2 ABSORBER REPLACEMENT.....	9-3
TABLE 9-3 - ORBITER WATER DUMPS (WASTE & SUPPLY).....	9-4
TABLE 9-4 - IUS/TDRS DEPLOYMENT EVENTS AND TIMES.....	9-5
TABLE 9-5 - CFES EXPERIMENT ACTIVATION AND OPERATION TIMES.....	9-6
TABLE 9-6 - MLR EXPERIMENT ACTIVATION AND OPERATION TIMES.....	9-7
TABLE 9-7 - MADS RECORDER USAGE.....	9-7
TABLE 9-8 - GAS EXPERIMENT ACTIVATION AND OPERATION TIMES.....	9-8
TABLE 9-9 - RME OPERATIONS TIMES.....	9-8
TABLE 9-10 - STS-6 ATTITUDE TIMELINE.....	9-9

TABLE 9-1
ORBITER FUEL CELL PURGES

APPROX MET D/HH:MM:SS	FUEL CELL PURGE	
	NO.	TIME FROM LAST PURGE (HH:MM)
0/02:00	1	--
0/12:00	2	10:00
1/00:10	3	12:10
1/10:45	4	10:35 (MANUAL)
1/23:05	5	12:20
2/09:45	6	10:40
2/21:45	7	12:00
3/08:40	8	10:55
3/21:50	9	13:10
4/07:05	10	10:35
4/18:20	11	11:15
Deorbit Prep (4/21:05)	12	2:45

TABLES

TABLE 9-2
CO2 ABSORBER REPLACEMENT

APPROX MET (D/HH:MM)	CO2 ABSORBER REPLACEMENT			
	NO.	POSITION	POSITION A Δt (HH:MM)	POSITION B Δt (HH:MM)
PRELAUNCH*	1	A & B		
0/12:05	2	A	12:05	
1/00:00	3	B		24:00
1/10:30	4	A	22:25	
1/21:20	5	B		21:20
2/09:45	6	A	23:15	
2/21:55	7	B		23:45
3/08:30	8	A	22:45	
3/21:00	9	B		23:55
4/07:10	10	A	22:40	
4/18:00	11	B		21:00

* BOTH CO2 ABSORBERS INSTALLED PRIOR TO LAUNCH

TABLE 9-3
 ORBITER WATER DUMPS (WASTE & SUPPLY)

APPROX MET (D/HH:MM)	SUPPLY H2O		WASTE H2O	
	NO.	TIME SINCE LAST	NO.	TIME SINCE LAST
0/10:45	1	7:05	(AS REQUIRED)	
1/00:10	2	13:25		
1/10:55	3	10:50		
1/23:05	4	12:10		
2/09:50	5	10:45		
2/21:50	6	12:00		
3/08:45	7	11:10		
3/21:15	8	12:30		
4/07:05	0	09:45		
4/18:25	10	11:20		

TABLE 9-4
IUS/TDRS DEPLOYMENT EVENTS AND TIMES
(8D DEPLOY)

EVENT	MET. (D/HH:MM)	DEPLOY MINUS (HH:MM)
AUTO MNVR TO TDRS CK ATT	0/08:18	-01:33
RAISE TILT TABLE TO 29°	0/08:25	-01:36
XFER STATE VECTOR TO IUS	0/08:35	-01:26
IUS C/O LATE	0/08:40	-01:21
IUS DIRECT CK	0/09:05	-00:46
TDRS RF CK	0/09:15	-00:46
AUTO MNVR TO DEPLOY ATT	0/09:28	-00:33
GO/NO GO FOR DEPLOYMENT	0/09:21	-00:40
XFER IUS TO INTERNAL POWER	0/09:42	-00:21
RELEASE IUS UMBILICAL	0/09:52	-00:09
RAISE TILT TABLE TO 59°	0/09:53	-00:08
DEPLOY TDRS/IUS	0/10:01	00:00
LOWER TILT TABLE TO -6°	0/10:06	+00:05
OMS SEPARATION BURN	0/10:20	+00:19
MNVR TO IUS VIEWING ATT	0/10:22	+00:21
IUS MNVR TO BURN ATT	0/10:48	+00:47
MNVR TO WINDOW PROTECTION ATT	0/10:41	+00:40
IUS SRM-1 IGNITION	0/10:56	+00:55
IUS SRM-2 IGNITION	0/16:08	+06:07

TABLE 9-5
 CFES EXPERIMENT ACTIVATION AND OPERATION TIMES

EVENT	APPROX MET (D/HH:MM)	DURATION (HH:MM)
CFES ACTIVATION (Sample 1,2,3 operations)	1/02:15	8:25
CFES CLOSEOUT	1/10:40	
CFES ACTIVATION (Sample 4,5,6)	1/22:45	5:10
CFES CLOSEOUT	2/03:55	

TABLE 9-6
MLR EXPERIMENT ACTIVATION AND OPERATION TIMES

EVENT	APPROX MET (D/HH:MM)	DURATION (HH:MM)
MLR Activation	1/03:25	20:00
MLR Deactivation	1/23:30	

TABLE 9-7
MADS RECORDER USAGE

FLIGHT ACTIVITY	STARTING MET D/HH:MM:SS	RCDR CODE	RECORDING TIME H:MM:SS
Manual Cal	-/05:00:00	Cont	0:02:00
Launch/OMS 1	-/00:05:30	Cont	0:17:30
Coast	0/00:12:00	S/S	0:29:00
OMS-2	0/00:41:00	Cont	0:05:00
Post Insertion	0/00:46:00	S/S	2:14:00
ACIP CAL	0/03:00:00	Cont	0:01:00
Orbit	0/03:01:00	S/S	7:17:00
Sep burn	0/10:18:00	Cont	0:04:00
Orbit	0/10:22:00	S/S	39:38:00
Vent Model	2/01:30:00	Cont	0:00:10
Orbit	2/01:30:10	S/S	0:59:50
Vent Model	2/02:30:00	Cont	0:03:00
Orbit	2/02:33:00	S/S	3:57:00
Plume Imp.	2/06:30:00	Cont	0:15:00
Orbit	2/06:45:00	S/S	61:05:00
Vent Model	4/19:35:00	Cont	0:03:00
Orbit	4/19:38:00	S/S	3:40:00
Entry	4/23:18:00	Cont	1:00:00

TABLE 9-8
GAS EXPERIMENT ACTIVATION AND OPERATION TIMES

FLIGHT ACTIVITY	MET D/HH:MM:SS
Unstow GAS Encoder	1/06:05:00
G049 Activation	1/06:15:00
G005 Activation	3/00:15:00
G005 Deactivation	3/06:50:00
G049 Deactivation	3/23:20:00
Stow GAS Encoder	3/23:45:00

TABLE 9-9
RME OPERATION TIMES

FLIGHT ACTIVITY	MET D/HH:MM:SS
PRM ON	1/03:00:00
HRM III OPS	1/03:05:00
PRM OFF	1/11:00:00
HRM III OPS	1/11:05:00
PRM ON	1/22:50:00
HRM III OPS	1/22:55:00
PRM OFF	2/09:35:00
HRM III OPS	2/09:40:00

TABLE 9-10 STS-6 ATTITUDE TIMELINE

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
0/0:8:37	MECO	332	135	354	IH	3.5	0.3	0.2	*	AUTO	*	90	0	122	205	
0/0:8:49	ET SEP (4 FPS,-Z)															
0/0:9:30	MNVR TO OMS-1	--	--	--	--	N/A	N/A	N/A	*	MAN ACCEL	*	--	--	--	--	
0/0:10:00	OMS-1 BURN ATT	335	152	346	IH	3.5	0.3	0.2	*	AUTO	*	77	0	138	213	
0/0:10:19	OMS-1 IGNITION															
0/0:12:46	OMS-1 CUTOFF															
0/0:13:21	MPS DUMP TERMINATED															
0/0:20:00	MNVR TO OMS-2	--	--	--	--	3.5	0.3	0.2	*	AUTO	*	--	--	--	--	MNVR TIME 12 MIN EIG ANG = 143°
0/0:42:00	OMS-2 ATT	28	297	357	IH	3.5	0.3	0.2	*	AUTO	*	63	0	76	338	
0/0:43:38	OMS-2 IGNITION															
0/0:45:30	OMS-2 CUTOFF															
0/0:55:00	DPS RECONFIG TO GNC 2					5.0	0.2	0.2	A1	AUTO	NORM					
0/1:02	MNVR TO -ZLV	--	--	--	--	1.0	0.2	0.2	A1	AUTO	NORM	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 45°
0/1:04	-ZLV	180	0	270	LVLH	1.0	0.2	0.5	B1	AUTO	NORM	90	0	111	284	
0/3:28	MNVR TO IMU	--	--	--	--	1.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 4 MIN EIG ANG = 127°
0/3:32	IMU ATT	21.4	133.7	339.1	IH	1.0	.02	0.2	A1	AUTO	VERN	166	237	121	165	-Z:20 ARCTURUS -Y:51 ATRIA AVAIL 3:28-4:12

TABLE 9-10 Continued

MET (D/HH:MM:)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
0/3:40	MNVR TO +X COAS	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 1 MIN EIG ANG = 5°
0/3:41	+X COAS ATT	357.2	95.7	307.3	IH	1.0	.02	0.2	B3	MAN	VERN	116	181	90	174	+X COAS:12 CANOPUS AVAIL 3:11-4:01
0/3:55	MNVR TO -ZLV	--	--	--	--	1.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 6 MIN EIG ANG 171°
0/4:01	-ZLV X-POP	180	0	270	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	111	298	
0/4:58	MNVR TO SS-1	--	--	--	--	3.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 3 MIN EIG ANG = 147°
0/5:01	STAR SCAN 1	164.6	304.3	2.6	IH	0.1	0.3	0.25	A7	AUTO	VERN	8	216	69	200	STAR 1 ARCTURUS RA 213.3341 DEC-19.4236
0/5:02	MNVR TO SS-2	--	--	--	--	0.1	0.3	0.25	A7	AUTO	VERN	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 20°
0/5:04	STAR SCAN 2	144.6	304.3	2.6	IH	0.1	0.3	0.25	A7	AUTO	VERN	20	241	69	220	STAR 2 ALPHA CENTAURI RA 219.9795 DEC-60.6237
0/5:05	MNVR TO SS-3	--	--	--	--	0.2	0.2	0.8	A7	AUTO	NORM	--	--	--	--	MNVR TIME 3 MIN EIG ANG = 100.2°
0/5:08	STAR SCAN 3	244.7	304.3	2.6	IH	0.2	0.2	0.8	A7	AUTO	NORM	36	142	69	120	
0/5:09	MNVR TO SS-4	--	--	--	--	0.1	0.3	0.25	A7	AUTO	VERN	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 20°
0/5:11	STAR SCAN 4	224.7	304.3	2.6	IH	0.1	0.3	0.25	A7	AUTO	VERN	48	163	69	140	
0/5:12	MNVR TO -ZLV	--	--	--	--	3.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 80°
0/5:14	-ZLV	180	0	0	LVLH	1.0	0.2	0.2	A1	AUTO	VERN	90	0	96	339	
0/8:18	MNVR TO TDRS CHECK ATT (HAW)	--	--	--	--	0.2	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 5 MIN EIG ANG = 145°
0/8:23	TDRS ATT	178.6	244.0	349.3	IH	0.2	0.2	0.5	A8	AUTO	VERN	153	224	129	180	

TABLE 9-10 Continued

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P, Y, R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
0/9:29	MNVR TO DPLY ATT	--	--	--	--	0.2	0.2	0.2	A8	AUTO	VERN	--	--	--	--	MNVR TIME 6 MIN EIG ANG = 38°
0/9:35	DEPLOY ATT	331.7	141.6	20.2	IH	1.0	.01	0.2	A8	AUTO	VERN	147	124	123	187	
0/10:01:51	8D DEPLOY					1.0	.01	0.2	A8	MAN	NORM	59	197	124	189	
0/10:02:51	2.2 FPS - X TRANSL	331.7	141.6	20.2	IH	5.0	0.2	0.2	A8	MAN	NORM	56	199	123	187	
0/10:03	-70° PITCH	331.7	141.6	20.2	ROTR	5.0	0.2	0.2	A8	MAN PULSE	NORM	55	200	124	189	P=0 Y=270 EIG ANG = 70°
0/10:04:36	ATT HOLD	11.8	63.0	32.4	IH	5.0	0.2	0.2	A8	MAN DISC	NORM	29	319	53	187	
0/10:08	MNVR TO OMS ATT	--	--	--	--	3.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 53°
0/10:10	OMS SEP ATT	333.7	99.1	11.0	IH	3.0	0.2	0.5	B1	AUTO	NORM	11	0	85	202	
0/10:20:51	OMS SEP BURN					3.0	0.2	0.5	B1	AUTO	NORM	22	0	85	202	
0/10:21	MNVR TO VIEW ATT	--	--	--	--	1.0	.02	0.2	B1	AUTO	NORM	--	--	--	--	MNVR TIME 4 MIN EIG ANG = 45°
0/10:25	VIEWING ATT	333.4	139.2	350.0	IH	1.0	.02	0.2	B1	AUTO	VERN	26	0	126	207	
0/10:43	MNVR TO WINDOW PROT ATT	--	--	--	--	3.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 137°
0/10:45	WINDOW PROT ATT	161.2	193.1	345.1	IH	1.0	.02	0.2	B1	AUTO	VERN	54	182	171	108	
0/11:10	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 15 MIN EIG ANG = 179°
0/11:25	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	60	335	
0/12:03	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 11 MIN EIG ANG = 133°

TABLE 9-10 Continued

MET (D/HH:MM:)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
0/12:14	IMU ATT	220.8	140.6	349.0	IH	1.0	.02	0.2	A1	AUTO	VERN	97	113	128	320	-Z:57 ACAMAR -Y:18 CAPELLA AVAIL 11:53-12:42
0/12:25	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 10 MIN EIG ANG = 115°
0/12:35	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	134	329	
0/23:48	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 11 MIN EIG ANG = 133°
0/23:59	IMU ATT	227.0	35.6	43.9	IH	1.0	.02	0.2	A1	AUTO	VERN	127	141	43	10	-Z:26 FOMALCHAUT -Y:14 VEGA AVAIL 23:27-00:11
1/0:15	MNVR TO RCS BURN 1	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
	RCS BURN 1 ATT	TBS	TBS	TBS	IH	1.0	.02	0.2	A1	AUTO	VERN					
1/0:43	RCS BURN 1 TIG															
1/0:50	MNVR TO RCS BURN 2	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
	RCS BURN 2 ATT	TBS	TBS	TBS	IH	1.0	.02	0.2	A1	AUTO	VERN					
1/1:29	RCS BURN 2 TIG															
1/1:35	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
1/1:45	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	118	205	
1/7:55	MNVR TO ICOS ATT	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 8 MIN EIG ANG = 98°
1/8:03	ICOS ATT	59.1	180.4	292.8	IH	1.0	.02	0.2	A1	AUTO	VERN	93	284	118	195	+X ICOS:17 ACRUX AVAIL 8:01-8:44
1/10:17	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 8 MIN EIG ANG 141°

TABLE 9-10 Continued

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
1/10:25	IMU ATT	61.0	240.3	318.3	IH	1.0	.02	0.2	A1	AUTO	VERN	100	140	126	271	-Z:14 DEGA -Y:26 FOMALCHAUT AVAIL 9:58 - 10:41
1/10:40	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 10 MIN EIG ANG = 115°
1/10:50	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	124	207	
1/21:15	MNVR TO RCS BURN 3	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
	RCS BURN 3 ATT	TBS	TBS	TBS	IH	1.0	.02	0.2	A1	AUTO	VERN					
	RCS BURN 3 TIG															
1/22:48	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 10 MIN EIG ANG = 121°
1/22:58	IMU ATT	253.2	161.9	332.3	IH	1.0	.02	0.2	A1	AUTO	VERN	107	89	142	315	-Z:16 ACHERNAR -Y:23 BETELGEUSE AVAIL 22:36 - 23:22
1/23:08	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 7 MIN EIG ANG = 85°
1/23:15	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	120	334	
2/1:25	DPS RECONFIG TO GNC 8					1.0	.02	0.2	A1	AUTO	VERN					
2/1:30	FCS C/O - APU START					5.0	0.2	0.2	A1	AUTO	NORM					
2/1:45	APU SHUTDOWN					1.0	.02	0.2	A1	AUTO	VERN					
2/1:50	SENSOR TEST					N/A	N/A	N/A	A1	MAN PULSE	VERN					
2/2:10	RETURN TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 4 MIN EIG ANG = 30°
2/2:14	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	124	333	

TABLE 9-9 Continued

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
2/2:38	FREE DRIFT	16.7	340.1	23.2	IH	1.0	.02	0.2	A1	MAN PULSE	VERN	90	0	37	322	VENT MODEL DTO
2/2:45	RETURN TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 12°
2/2:47	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	22	258	
2/4:02	MNVR TO -ZLV X-POP	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 8 MIN EIG ANG = 90°
2/4:10	-ZLV X-POP	180	0	270	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	112	293	
2/4:20	INITIATE ROT	194.6	196.9	61.7	ROTR	5.0	0.2	2.0	A10	AUTO	NORM	90	0	112	254	P=0 Y=0
2/4:45	ATT HOLD	206.6	196.9	61.7	IH	5.0	0.2	2.0	A10	AUTO	NORM	90	88	112	242	
2/4:46	RETURN TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 8 MIN EIG ANG = 90°
2/4:54	-ZLV X-POP	180	0	270	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	112	118	
2/6:10	INITIATE ROT	275.0	196.4	61.7	ROTR	5.0	0.2	2.0	A10	AUTO	NORM	90	0	112	174	P=0 Y=0
2/6:21	ATT HOLD	281.0	196.4	61.7	IH	5.0	0.2	2.0	A10	AUTO	NORM	90	38	112	168	
2/6:50	RETURN TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 4 MIN EIG ANG = 38°
2/6:54	-ZLV X-POP	180	0	270	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	114	334	
2/7:45	INITIATE ROT	295.4	195.9	61.7	ROTR	5.0	0.2	2.0	A10	AUTO	NORM	90	0	112	154	P=0 Y=0
2/7:56	ATT HOLD	301.4	195.9	61.7	IH	5.0	0.2	2.0	A10	AUTO	NORM	90	38	112	148	
2/8:05	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 4 MIN EIG ANG = 38°

TABLE 9-10 Continued

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
2/8:09	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	142	323	
2/9:22	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 8 MIN EIG ANG = 100°
2/9:30	IMU ATT	34.8	24.9	1.1	IH	1.0	.02	0.2	A1	AUTO	VERN	103	147	11	117	-Z:31 CASTOR -Y:12 CANOPUS AVAIL 9:16-9:54
2/9:43	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 14 MIN EIG ANG = 170°
2/9:57	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	77	338	
2/21:12	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 11 MIN EIG ANG = 135°
2/21:23	IMU ATT	253.2	161.9	332.3	IH	1.0	.02	0.2	A1	AUTO	VERN	87	93	142	314	-Z:16 ACHERNAR -Y:23 BETELGEUSE AVAIL 21:07-21:52
2/21:31	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 10 MIN EIG ANG = 123°
2/21:41	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	137	328	
3/7:55	MNVR TO RCS BURN 4	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
	RCS BURN 4 ATT	TBS	TBS	TBS	IH	1.0	.02	0.2	A1	AUTO	VERN					
	RCS BURN 4 TIG															
3/8:23	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
3/8:33	IMU ATT	261.0	349.6	39.0	IH	1.0	.02	0.2	A1	AUTO	VERN	59	101	40	52	-Z:28 AL NA'IR -Y:43 RASALHAUGE AVAIL 8:18-9:04
3/8:43	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 10 MIN EIG ANG = 121°
3/8:53	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	33	222	

TABLE 9-10 Continued

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
3/20:05	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 9 MIN EIG ANGLE = 105°
3/20:14	IMU ATT/-Z COAS CAL	23.8	133.7	339.1	IH	1.0	.02	0.2	A1	AUTO	VERN	163	141	118	159	-Z:20 ARCTURUS -Y:51 ATRIA AVAIL 20:07-20:50
3/21:15	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 13 MIN EIG ANG = 160°
3/21:28	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	154	234	
4/2:46	MNVR TO RCS BURN 5 ATT	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
	RCS BURN 5 ATT	TBS	TBS	TBS	IH	1.0	.02	0.2	A1	AUTO	VERN					
	RCS BURN 5 TIG															
4/4:15	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	
4/4:30	-ZLV	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	54	205	
4/6:47	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 10 MIN EIG ANG = 110°
4/6:57	IMU ATT	261.0	349.6	39.0	IH	1.0	.02	0.2	A1	AUTO	VERN	36	89	40	54	-Z:28 AL NA'IR -Y:43 RASALHAUGE AVAIL 6:48-7:34
4/7:15	MNVR TO -ZLV	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 10 MIN EIG ANG = 106°
4/7:25	-ZLV ATT	180	0	0	LVLH	1.0	.02	0.2	A1	AUTO	VERN	90	0	37	215	
4/18:02	MNVR TO IMU	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 5 MIN EIG ANG = 133°
4/18:07	IMU ATT	220.8	140.6	349.0	IH	1.0	.02	0.2	A1	AUTO	VERN	47	111	124	318	-Z:57 ACAMAR -Y:18 CAPELLA AVAIL 18:02-18:46
4/18:21	INITIATE AUTO MNVR TO TAIL SUN ATT	--	--	--	--	1.0	.02	0.2	A1	AUTO	VERN	--	--	--	--	MNVR TIME 15 MIN EIG ANG = 180°

TABLE 9-10 Continued

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P,Y,R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
4/18:36	TAIL SUN ATT	20.9	194.0	351.0	INRTL	1.0	.02	0.2	A1	AUTO	VERN	107	353	176	180	
4/19:51	DAP RECONFIG					3.0	0.2	0.5	B1	AUTO	NORM					
4/20:34	INITIATE AUTO MNVR TO IMU ALIGN ATT	--	--	--	--	3.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 5 MIN EIG ANG = 133°
4/20:39	IMU ALIGN ATT	172.8	34.3	50.9	INRTL	3.0	0.2	0.5	B1	AUTO	NORM	57	149	46	73	-Y:22 ALTAIR -Z:29 ALKAID AVAIL 20:24-20:56
4/20:49	INITIATE AUTO MNVR TO IMU ALIGN VERIF ATT	--	--	--	--	3.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 2 MIN EIG ANG = 56°
4/20:51	IMU ALIGN VERIF ATT	227.0	35.6	43.9	INRTL	3.0	0.2	0.5	B1	AUTO	NORM	97	117	40	14	-Y:14 VEGA -Z:26 FOMALHAUT 20:31-21:11
4/21:02	INITIATE AUTO MNVR TO D/O BURN ATT	--	--	--	--	3.0	0.2	0.5	B1	AUTO	NORM	--	--	--	--	MNVR TIME 3 MIN EIG ANG = 82°
4/21:05	D/O BURN ATT	152	88	359	INRTL	3.0	0.2	0.5	B1	AUTO	NORM	90	180	71	20	
4/21:16	DPS CONFIG TO GNC OPS 3					3.5	0.3	0.2	*	AUTO	*					
4/21:46	CONFIG RJDS (VRCS OFF)					3.5	0.3	0.2	*	AUTO	*					
4/23:16	ACTIVATE SINGLE APU					3.5	0.3	0.2	*	AUTO	*					
4/23:21	D/O IGNITION					3.5	0.3	0.2	*	AUTO	*					
4/23:23:19	D/O BURN CUTOFF					3.5	0.3	0.2	*	AUTO	*					
4/23:26	INITIATE AUTO MNVR TO EI-5 ATT	--	--	--	--	3.5	0.3	0.2	*	AUTO	*					MNVR TIME 11 MIN EIG ANG = 127°
4/23:30	ACTIVATE REMAINING APUS					3.5	0.3	0.2	*	AUTO	*					
4/23:31	EI-5 ATT	197.8	318.0	24.1	INRTL	3.5	0.3	0.2	*	AUTO	*	81	179	59	156	

TABLE 9-10 Continued

MET (D/HH:MM:SS)	EVENT	ATTITUDE (P, Y, R EULER SEQ)			ATT MODE	DEADBANDS		DISC RATE (°/sec)	DAP			EARTH		SUN		REMARKS
		Roll	Pitch	Yaw		ATT (deg)	RATE (°/sec)		SEL	CONT	RCS	θ	φ	θ	φ	
4/23:43	EI-5	1	39	359	LVLH	3.5	0.3	0.2	*	AUTO	*	129	180	61	155	

ABBREVIATIONS/ACRONYMS

More complete compilations of abbreviations and acronyms are available in the Acronyms and Abbreviations Dictionary (Ref. 4).

ABBREVIATIONS/
ACRONYMS

ABBREVIATIONS/ACRONYMS

ABS	ABSORBER
ACIP	AERODYNAMIC COEFFICIENTS IDENTIFICATION PACKAGE
ACN	ASCENSION ISLAND (STDN SITE)
ACT	ACTIVATE/ACTIVATION
ADI	ATTITUDE DIRECTION INDICATOR
AGO	SANTIAGO, CHILE (STDN SITE)
ALN	ALIGNMENT
ANT	ANTENNA
AOA	ABORT ONCE AROUND
AOS	ACQUISITION OF SIGNAL
ATCS	ACTIVE THERMAL CONTROL SYSTEM
ATT	ATTITUDE
ATO	ABORT TO ORBIT
BDA	BERMUDA ISLAND, BWI (STDN SITE)
BHD	BULKHEAD
BLKT	BLANKET
BOT	BOTSWANA (STDN SITE)
BUC	BUCKHORN, CALIFORNIA (STDN SITE)
BYP	BYPASS
CAL	CALIBRATION
CCTV	CLOSED-CIRCUIT TV
CCU	CREWMAN COMMUNICATIONS UMBILICAL
CDR	COMMANDER
CFES	CONTINUOUS FLOW ELECTROPHORESIS
CHG	CHANGE
CL	CHECKLIST
CLN	CLEAN

ABBREVIATIONS/
ACRONYMS

C/O	CHECKOUT
COAS	CREWMAN OPTICAL ALIGNMENT SIGHT
COM	COMMUNICATIONS
CONFIG/CNFG	CONFIGURATION
CST	CENTRAL STANDARD TIME
CTLS	CONTROLS
C&W	CAUTION AND WARNING
DAP	DIGITAL AUTO PILOT
DB	DEADBAND
DEACT	DEACTIVATION
DEU	DISPLAY ELECTRONICS UNIT
DFI	DEVELOPMENT FLIGHT INSTRUMENTATION
DKR	DAKAR, SENEGAL (STDN SITE)
DMS	DATA MANAGEMENT SYSTEM
DMP	DUMP
DPLY	DEPLOY
DSO	DETAILED SUPPLEMENTARY OBJECTIVE
DTO	DETAILED TEST OBJECTIVE
ECLS	ENVIRONMENTAL CONTROL LIFE SUPPORT SYSTEM
EDW	EDWARDS AFB, CALIFORNIA (DEORB OPT SITE)
EMU	EXTRAVEHICULAR MOBILITY UNIT
ENA	ENABLE
ENT	ENTRY
EVA	EXTRAVEHICULAR ACTIVITY
EX/EXER	EXERCISE
EXPT	EXPERIMENT
F&S	FIRE AND SMOKE DETECTION
FC	FUEL CELL

FCS	FLIGHT CONTROL SYSTEM
FD	FREEZE DRIED
FDL	FLIGHT DATA FILE
FES	FLASH EVAPORATOR SYSTEM
FM	FREQUENCY MODULATION
FRD	FLIGHT REQUIREMENTS DOCUMENT
FSO	FUNCTIONAL SUPPLEMENTARY OBJECTIVE
FTO	FUNCTIONAL TEST OBJECTIVE
F/W	FOOD WARMER
FWD	FORWARD
GAS	GETAWAY SPECIAL
GDS	GOLDSTONE, CALIFORNIA (STDN SITE, 1ST ANTENNA)
GDX	GOLDSTONE, CALIFORNIA (STDN SITE, 2ND ANTENNA)
GG	GRAVITY GRADIENT (ATTITUDE CONTROL MODE)
GMT	GREENWICH MEAN TIME
GNC	GUIDANCE NAVIGATION AND CONTROL
GPC	GENERAL PURPOSE COMPUTER
GRP	GROUP
GSTDN	GROUND SPACE TRACKING & DATA NETWORK
GTS	GUAM ISLAND (SGLS SITE)
GWM	GUAM ISLAND, U.S. (STDN SITE)
HAW	HAWAII (KAUAI, STDN SITE)
HK	HOUSEKEEPING
HL	HI LOAD FLASH EVAPORATOR
HTR	HEATER
HTS	HAWAII (SGLS SITE)
HYD	HYDRAULIC
IMU	INERTIAL MEASUREMENT UNIT

INH	INHIBIT
INRTL	INERTIAL
IOS	INDIAN OCEAN (SGLS SITE)
IUS	INERTIAL UPPER STAGE
IVA	INTRA VEHICULAR ACTIVITY
KSC	KENNEDY SPACE CENTER
LEH	LAUNCH/ENTRY HELMET
LOS	LOSS-OF-SIGNAL
LVLH	LOCAL VERTICAL LOCAL HORIZONTAL
MAD	MADRID, SPAIN (STDN SITE, 1ST ANTENNA)
MADS	MODULAR AUXILIARY DATA SYSTEM
MAX	MADRID, SPAIN (STDN SITE, 2ND ANTENNA)
MCC	MISSION CONTROL CENTER
MD	MIDDECK
MDM	MULTIPLEXER/DEMULTIPLEXER
MECH	MECHANISM; MECHANICAL
MECO	MAIN ENGINE CUTOFF
MET	MISSION ELAPSED TIME
MIL	MERRITT ISLAND, FLORIDA (STDN SITE)
MILA	MERRITT ISLAND LAUNCH AREA
MLR	MONODISPERSE LATEX REACTOR
MLX	MERRITT ISLAND, FLORIDA (STDN SITE, 2ND ANTENNA)
MNVR	MANEUVER
MPS	MAIN PROPULSION SYSTEM
MSG	MESSAGE
MTVC	MANUAL THRUST VECTOR CONTROL
NAV	NAVIGATION

NHS	NEW HAMPSHIRE (SGLS SITE)
NOR	NORTHRUP STRIP
OI	OPERATIONAL INSTRUMENTATION
OMS	ORBITAL MANEUVERING SYSTEM
O/O	ON ORBIT
OPS	OPERATIONS; OPERATIONAL SEQUENCE
ORB	ORBITER
ORR	ORRORAL VALLEY, AUSTRALIA (STDN SITE)
OSTA	OFFICE OF SPACE AND TERRESTRIAL APPLICATIONS
PAM	PAYLOAD ASSIST MODULE
PCM	PULSE-CODE MODULATION
PCS	PRESSURE CONTROL SYSTEM
PDP	POST INSERTION DEORBIT PREP CHECKLIST
PKM	PERIGEE KICK MOTOR
PL	PAYLOAD
PLBD	PAYLOAD BAY DOORS
PLD	PAYLOAD
PLT	PILOT
PM	PHASE MODULATION
PMC	PRIVATE MEDICAL COMMUNICATION
PMP	PUMP
PRCS	PRIMARY REACTION CONTROL SYSTEM
PREP	PREPARATION
PRO	PROCEED
PSA	PRE/POST SLEEP ACTIVITY
PTC	PASSIVE THERMAL CONTROL
PWRDN	POWERDOWN
RAD	RADIATOR

RCS	REACTION CONTROL SYSTEM
REF	REFERENCE
REFSMMAT	REFERENCE STABLE MEMBER MATRIX
RELMAT	RELATIVE MATRIX
RF	RADIO FREQUENCY
RHC	ROTATION HAND CONTROLLER
RMS	REMOTE MANIPULATOR SYSTEM
ROT	ROTATION/ROTA FIELD
RSET	RESET
RTC	REAL-TIME COMMAND
RTS	REMOTE TRACKING STATION
SAA	SOUTH ATLANTIC ANOMALY
S-BD	S-BAND
SEL	SELECT
SEP	SEPARATION
SEQ	SEQUENCE
SGLS	SPACE GROUND LINK SYSTEM/STATION (DOD)
SPC	STORED PROGRAM COMMAND
SPLY	SUPPLY
SRM	SOLID ROCKET MOTOR
ST/S TRKR	STAR TRACKER
STDN	SPACE TRACKING & DATA NETWORK
STS	SPACE TRANSPORTATION SYSTEM
STW	STOW
SW	SWITCH
SYS	SYSTEM
TB	TALKBACK
TDRS	TRACKING AND DATA RELAY SATELLITE SYSTEM

TERM	TERMINATE; TERMINAL
TH	THEODOLITE
TIG	TIME OF IGNITION
TPR	TELEPRINTER
THC	TRANSLATION HAND CONTROLLER
UHF	ULTRA HIGH FREQUENCY
VAC	VACUUM
VER	VERIFICATION
VRCS	VERNIER REACTION CONTROL SYSTEM
VTR	VIDEO TAPE RECORDER
VTB	VANDENBERG (SGLS SITE)
WB	WIDEBAND
WCS	WASTE COLLECTION SYSTEM
WMC	WASTE MANAGEMENT COMPARTMENT
XFER	TRANSFER
X-POP	X BODY AXIS PERPENDICULAR TO ORBIT PLANE
YAR	YARRAGADEE (STDN SITE)
Y-POP	Y BODY AXIS PERPENDICULAR TO ORBIT PLANE
-ZLV	-Z LOCAL VERTICAL (-Z BODY AXIS TOWARDS EARTH)

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REFERENCES

REFERENCES

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