

CREW ACTIVITY

PLAN

FINAL REV-A

Flight Data File Crew Activity Plan

STS 51-G

Mission Operations Directorate
Operations Division

Final, Revision A
May 30, 1985

EVENT:	COI		
Launch	06:33	Mon	Jun 17
MORELOS Deploy	14:58	Mon	Jun 17
ARABSAT Deploy	06:56	Tue	Jun 18
TELSTAR Deploy	06:20	Wed	Jun 19
SPARTAN Deploy	11:01	Thu	Jun 20
SPARTAN Rendezvous	07:56	Sat	Jun 22
Crew Conference	06:03	Sun	Jun 23
EDW Landing	08:14	Mon	Jun 24

NASA

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas

MISSION OPERATIONS DIRECTORATE

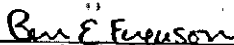
STS 51-G CREW ACTIVITY PLAN

FINAL, REVISION A
May 30, 1985

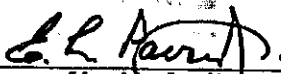
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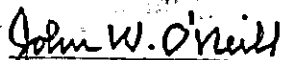

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This document is under the configuration control of the Crew Procedures Control Board (CPCB). All proposed changes must be submitted on standard JSC form 482 to OH4/FDF Manager, Bldg 4, Room 352, 713-483-2868.

Comments concerning this document may be addressed to OH4/Robert L. Schaf or OH4/Barbara A. Schwartz, Bldg 4, Rm 338, 713-483-5871.

Changes to the distribution list should be submitted in writing to OH4/Gwen Butler, Bldg 4, Rm 373, 713-483-5224.

Incorporates 482	
No: CAP-356A	CAP-369
CAP-359	CAP-370
CAP-366	CAP-371
CAP-367B	CAP-375

ACKNOWLEDGMENTS

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STS 51-G CREW ACTIVITY PLAN

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 REY A 05/30/85

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INTRODUCTION

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

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

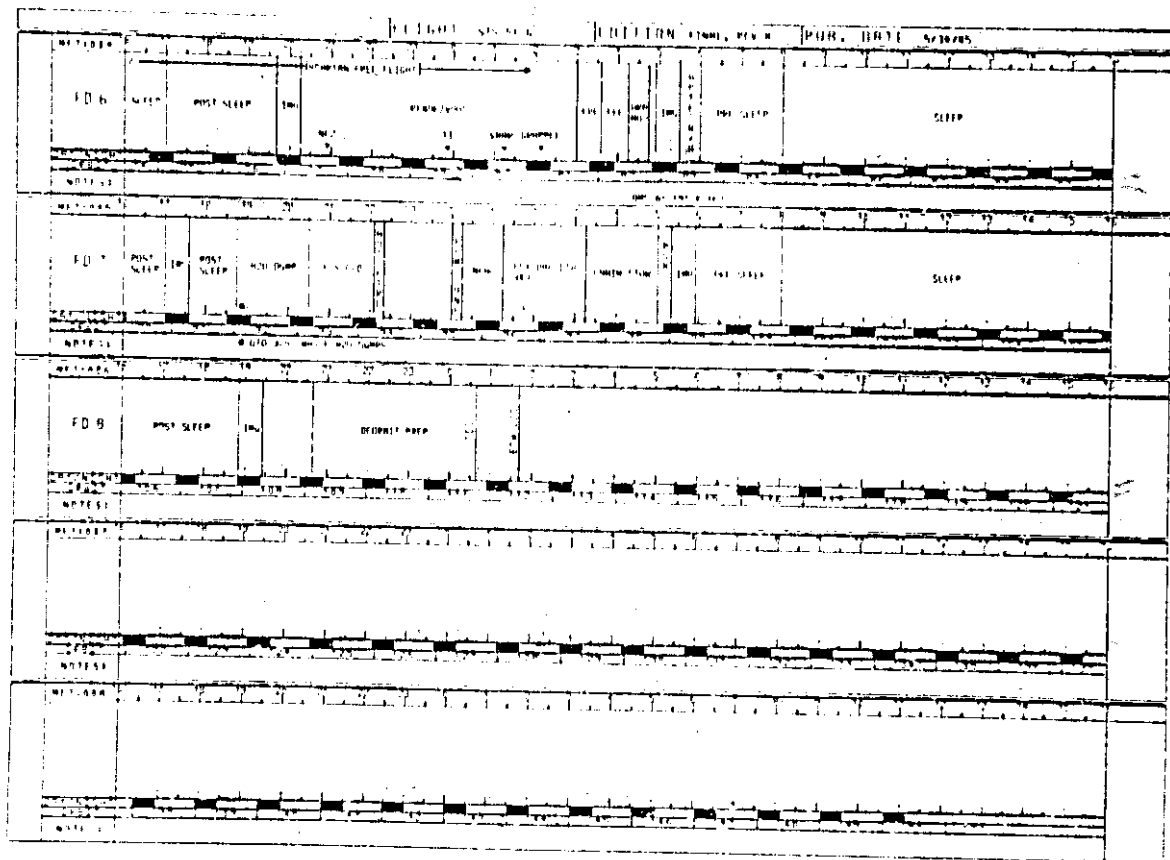
The operational flight profile (Cycle 3 trajectory data) was modified for this Crew Activity Plan so that the launch time would be 11:33 GMT on June 17, 1985. Orbiter inertial attitudes are expressed relative to the Mean of 1950 (M50) reference frame.

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51-G
OVERVIEW

OVERVIEW

TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
FO 1															
NOTES 1	[Faded text]														
FO 2	SLEEP		POST SLEEP	IMU											SLEEP
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FO 3	SLEEP		POST SLEEP	IMU											SLEEP
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FO 4	SLEEP		POST SLEEP	IMU											SLEEP
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FO 5	SLEEP	POST SLEEP	IMU	POST SLEEP	FEE										SLEEP
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SUMMARY
TIMELINE

SUMMARY TIMELINE

UNIT	OPERATION	TYPE	CLASSIFICATION	STATUS	DESCRIPTION	START TIME	END TIME	NO. OF	REMARKS	MISSION TYPE	STATION	LOCATION	MISSION DATE
CDT													4/20/68
<p>NOTICE</p>													

COPY	(DIMENS)	REF	(DIMENS)	CTP	(DIMENS)	RTA	DDY	RTN	POON	MOB/STN DATE	ELEMT	EDITION	PUB. DATE
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REP													
CDP													
REP													
NOTES:													

SECURITY/INTS/ISS
 SETUP 01/27/00 - 01/29/00
 POST TEST 01/29/00 - 02/00/00

CMP	(DINUM)	MP	(DINUM)	DP	(DINUM)	DP/ DWP	MP TO	MOON	MISSION DATE	#ITEM	EDITION	PUR. DATE
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PL												

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	POST SLEEP											WASTE AND DUMP	SUPPLY AND DUMP
PL											1 2 3 4 5 6 7 8 9 10 11 12	REC OPS (WEST)	(MS)
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NOTES:												WASTE AND SUPPLY DUMPS	WASTE AND SUPPLY DUMPS

COMP	DESCRIPTION	REF	DESCRIPTION	CTP	DESCRIPTION	REF	REF	MOON	MOISTURE	WIND	FLIGHT	EDITION	PUR. DATE
CDP	REF												
REF													
SFS	REF												
PL	REF												
NOTES:													

COMP.	DIRECTION	NO. 7	(DENSEM) / CDT	(DENSEM)	REP. UNIT	NO. 74	MOON	MONITOR DATE	FLIGHT	EQUATION	PUR. DATE
CDP											
STG		66	57	58	59	60	61	62	63		
PE											
NOTES:											

CONF (DAYS)	REP (DAYS)	FDZ (DAYS)	HTZ (DAYS)	HTZ (DAYS)	MOON	WAKENING TIME	FLIGHT	FOOTING	SUB. DATE
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SPS									
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<p>NOTE:</p> <p>ALL ACTIVITIES ARE IN 15 MIN 0000 - 00000 000000 - 0000000 1000000 - 10000000 10000000 - 100000000</p>									

COMP	IDENTIFICATION	REF	(DESCRIPTION)	REF	(DESCRIPTION)	FOY	IMP	REF	PHON	ASSIGNMENT	TITLE	PLIGHT	EDITION	PUB. DATE	
										NOV 22 1965	STS 57-5	FORM. REV. B	11/23/65		
COMP	1112														
NO. OF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
STS	SLEEP									ME2					
	POST SLEEP														
									DATA						
PL															
DATE	72	73	74	75	76	77	78	79	80						
ASST															
CHARGE															
PHYS															
NOTES:															
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UNIT	POSITION	NO. P	(PERIOD)	CDT	(PERIOD)	ST/1	ST/2	HT/1	HT/2	MOON	MOON/TON	DRIF	FLIGHT	EDITION	PUB. DATE																																																																																																								
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<table border="1"> <tr> <td>0000</td> <td>01</td> <td>02</td> <td>03</td> <td>04</td> <td>05</td> <td>06</td> <td>07</td> <td>08</td> <td>09</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> <tr> <td>0000</td> <td>01</td> <td>02</td> <td>03</td> <td>04</td> <td>05</td> <td>06</td> <td>07</td> <td>08</td> <td>09</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> <tr> <td>0000</td> <td>01</td> <td>02</td> <td>03</td> <td>04</td> <td>05</td> <td>06</td> <td>07</td> <td>08</td> <td>09</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> <tr> <td>0000</td> <td>01</td> <td>02</td> <td>03</td> <td>04</td> <td>05</td> <td>06</td> <td>07</td> <td>08</td> <td>09</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> </tr> </table>																0000	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	0000	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	0000	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	0000	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20																				
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<p>NOTES:</p>																																																																																																																							

GMT (DINM)	MET (DINM)	CLIF (DINM)	F/P/BDY	HI TH	MOON	MOONSTON DATE	FLIGHT	EDITION	PUB. DATE
1701111337	1701111337	0041000000	00011000	1701001337	1701001337	001	001	001	001
COT 1174						JUNE 21, 1965			
FD 1 87						15 11-6			
MET 1000						C10M, 000 0			
						1/10/65			
STS	REAL	DEI DOP						SLEEP	
								WE SLEEP	
PL		PPU SETUP	PPU REC						
<p>0001 95 96 97 98 99 100 101 102 103</p> <p>ESTON COVERAGE</p> <p>TRAC</p> <p>NOTES:</p>									

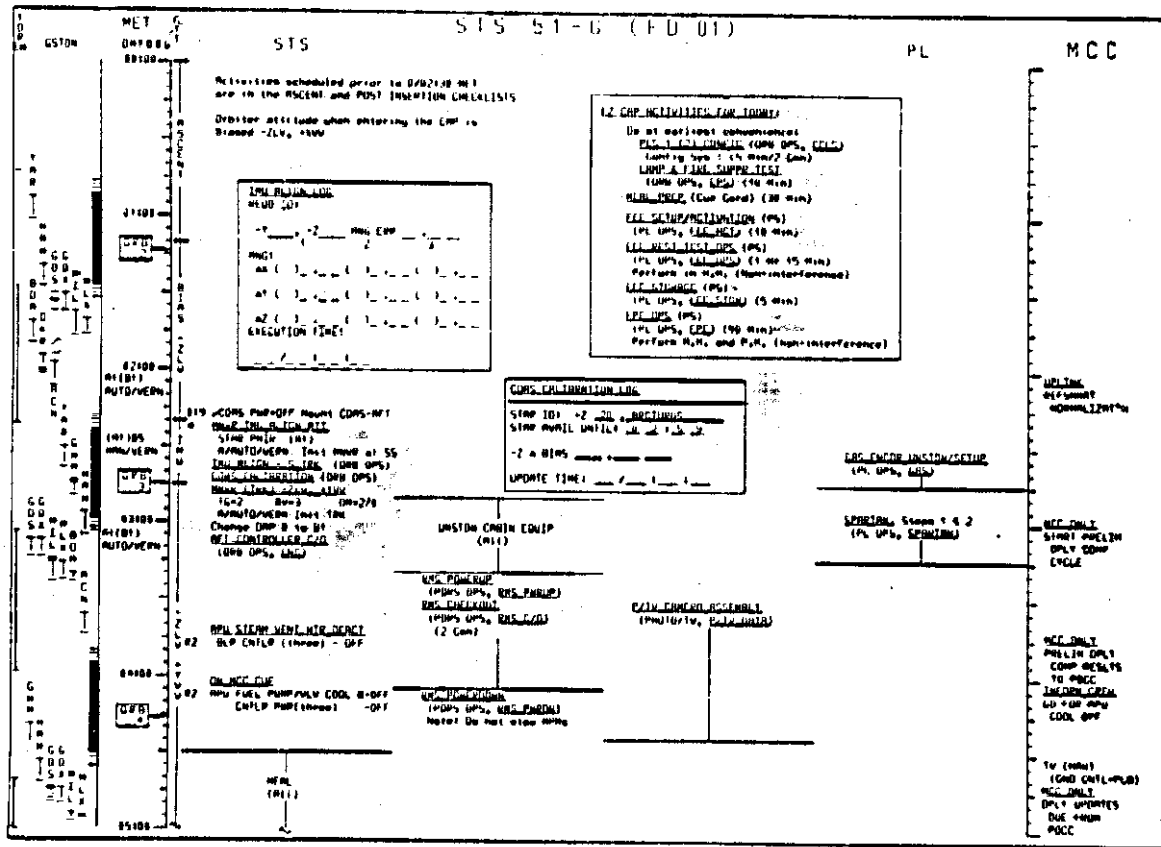
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170123137	120114137	000117107	00101000	17010137	17010137	07/17/85	07,0	JUN 21, 1985	STS 51-L	FORM, REV A	540805
CDT 1770	FB 1 07	MET 1800	10	20	30	40	50	60	70	80	90
STS	SLEEP				RECORD			DEBIT PDP			
	POST SLEEP				MAD			DPS			
PL							8 5 4 3 2 1				
DATE/ISS	001	103	104	105	106	107	108	109	110	111	
657D	-CAY	-DRP	-DRG	-CAN	-RIL	-CAY	-CAN	-CAN	-CAN	-CAY	
COVERED		-DRP	-DRG	-CAN	-RIL	-CAY	-CAN	-CAN	-CAN	-CAY	
TOP											
ATTN											
NOTES:	© SPRINT RECORD COMPANY © MODEL OF RECORDING/RELEASING										

GMT (DIMNS)	NET (DIMNS)	ERT (DIMNS)	FD/ DDT	HTA	MOON	MOONSTON DATE	FLIGHT	EDITION	PIR. DATE
125000000 125000000	007000100 007000100	001000100 001000100	00/ 175 ERT	00.0		JUNE 29, 1965	STS 51-G	FINAL, DIV 8	5/10/65
CDT 1175 10:00	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22								
NET 1000	0 1 2 3 4 5 6 7 8 9 10 11 12								
STS	DEBIT								
	DEBIT BUFIN								
		CDT LANDING (7/01:41)							
PL									
DATE/TIME	111	112	113	114	115	116	117	118	
SYSTEM	---FILL	---FILL	---FILL	---FILL	---FILL	---FILL	---FILL	---FILL	
COVERPAGE	---FILL	---FILL	---FILL	---FILL	---FILL	---FILL	---FILL	---FILL	
YDRS									
DATE/TIME									
NOTES:									

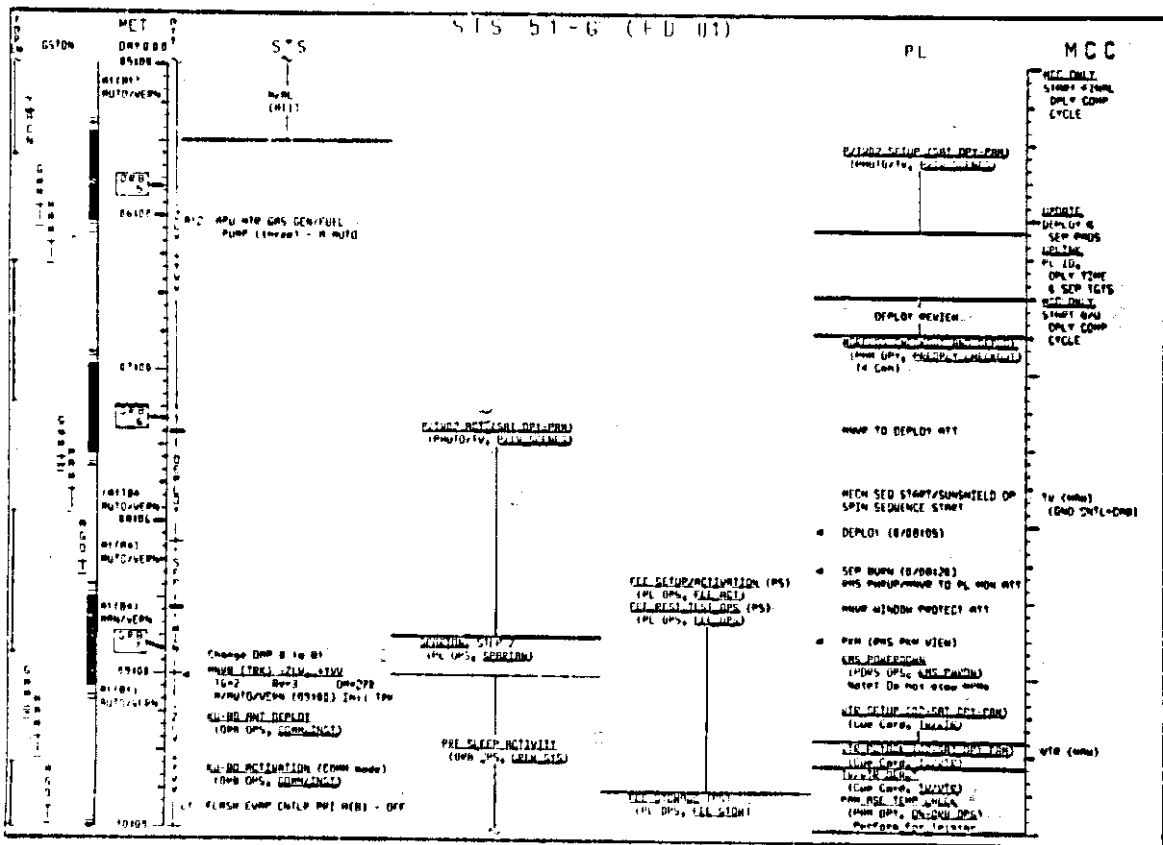
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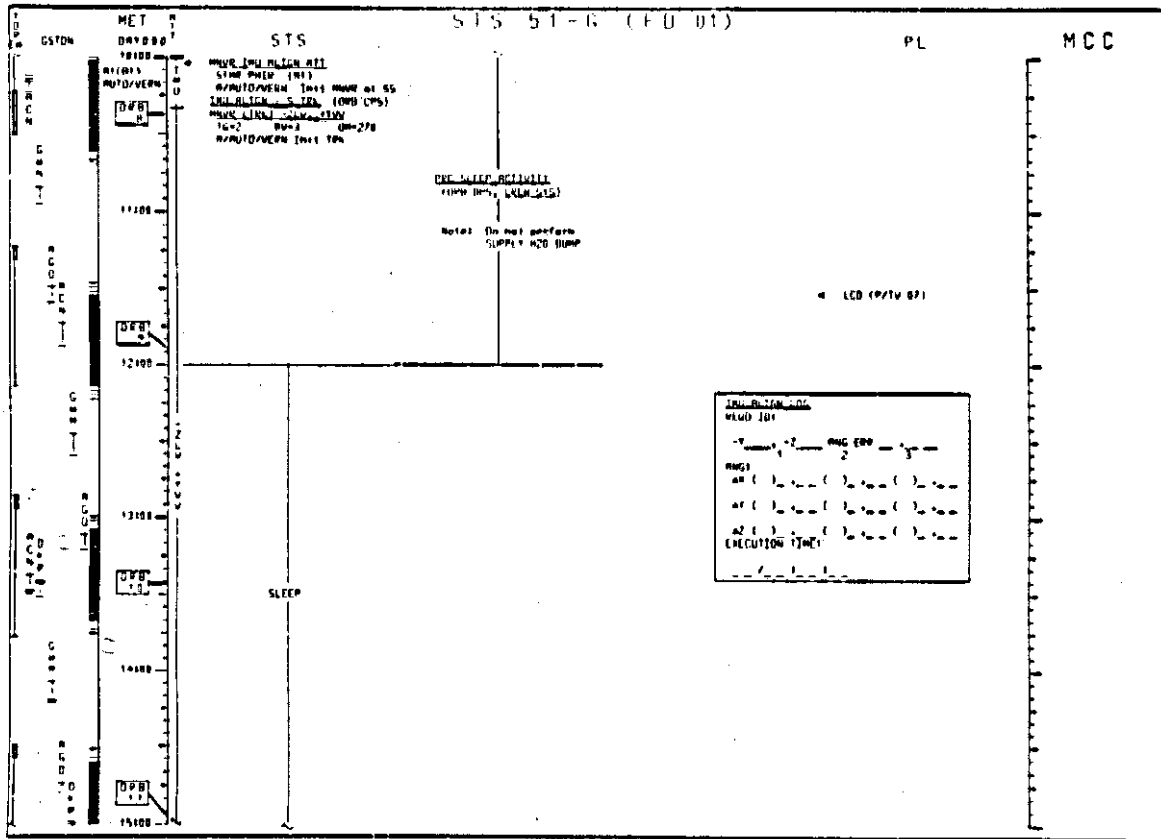
DETAILED
TIMELINE

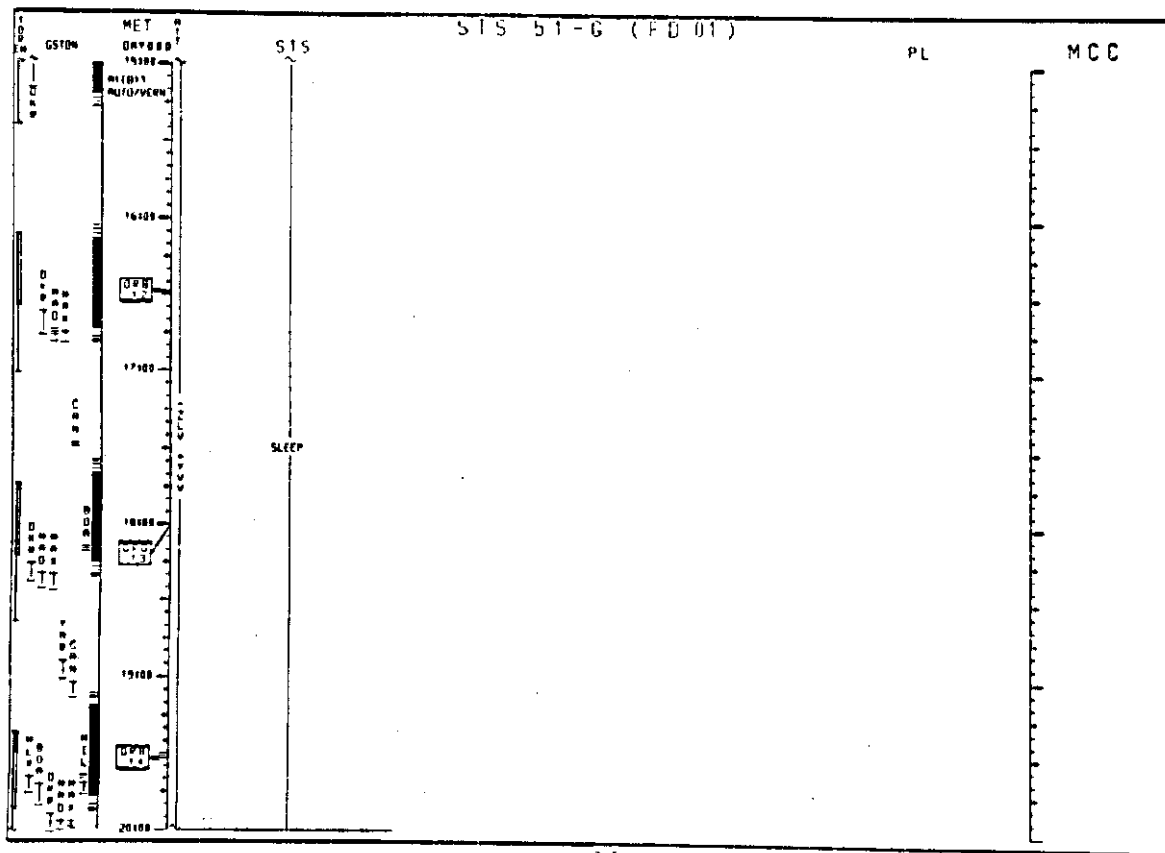
DETAILED TIMELINE

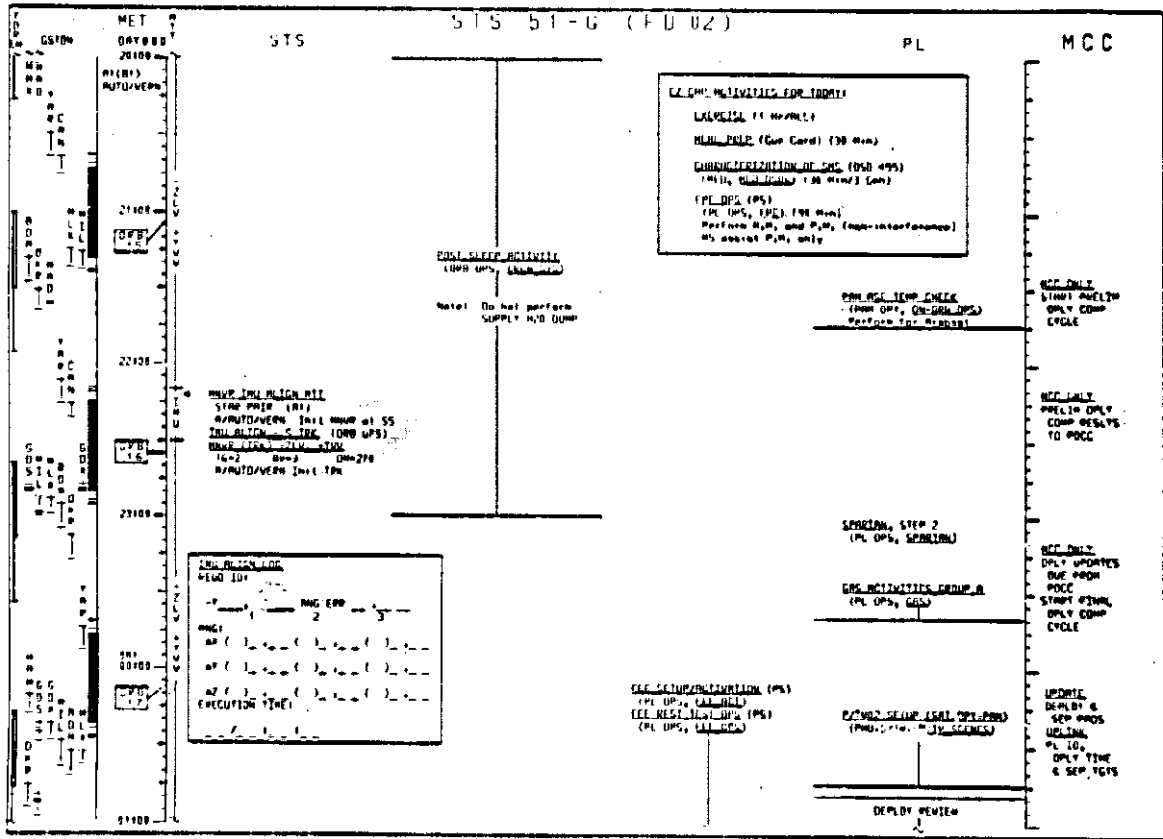


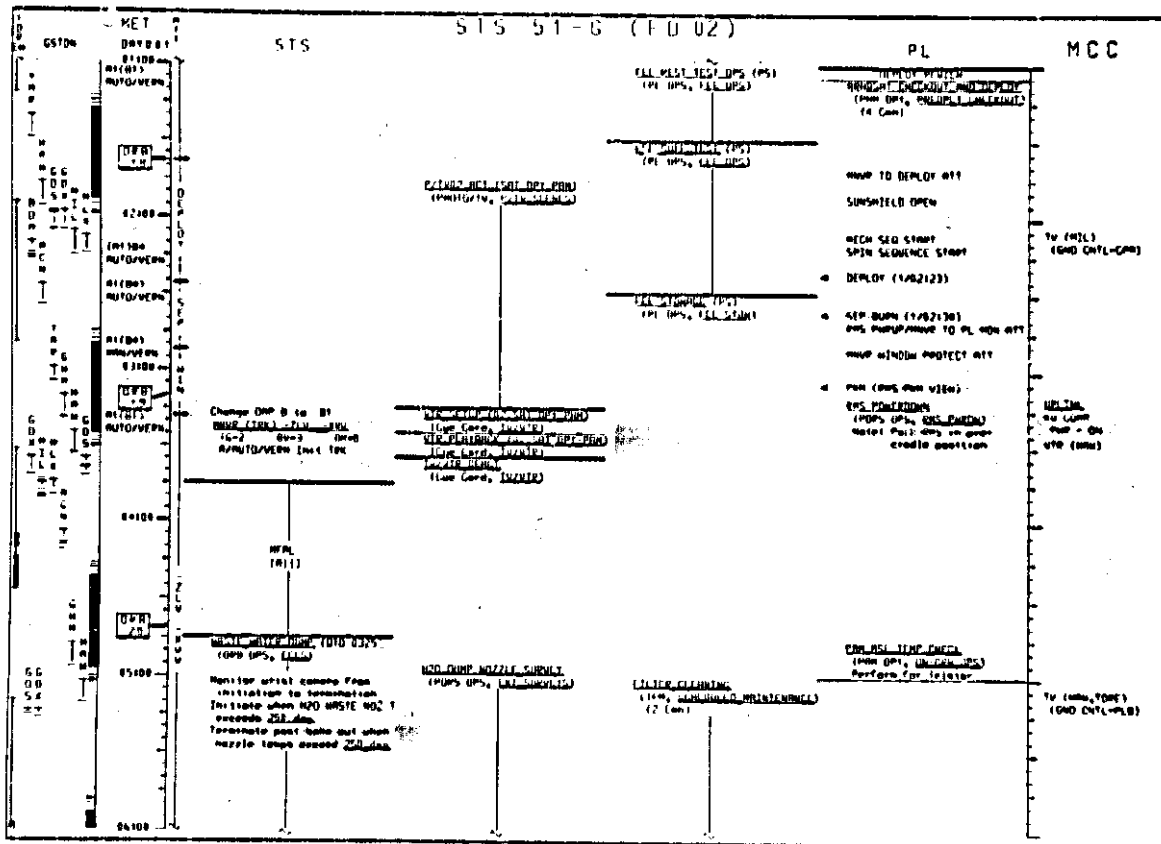
SIS 51-G (FD 01)

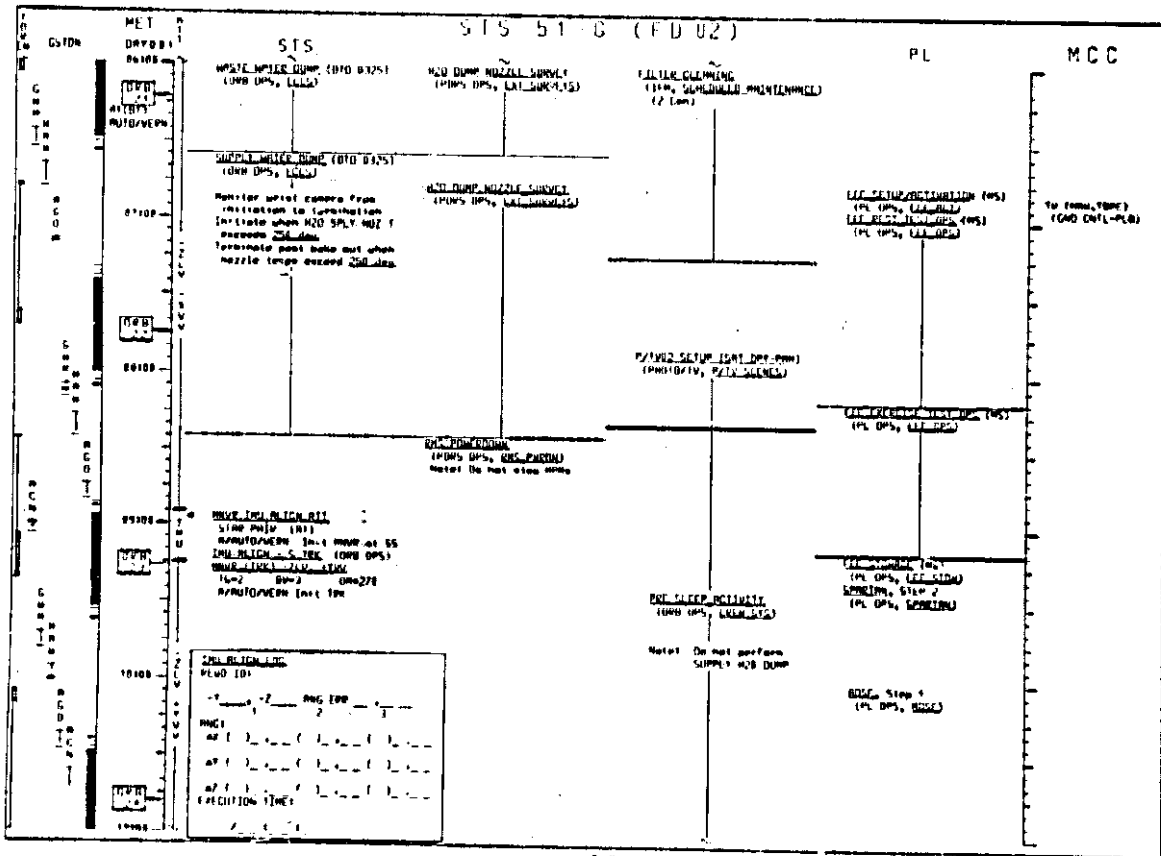




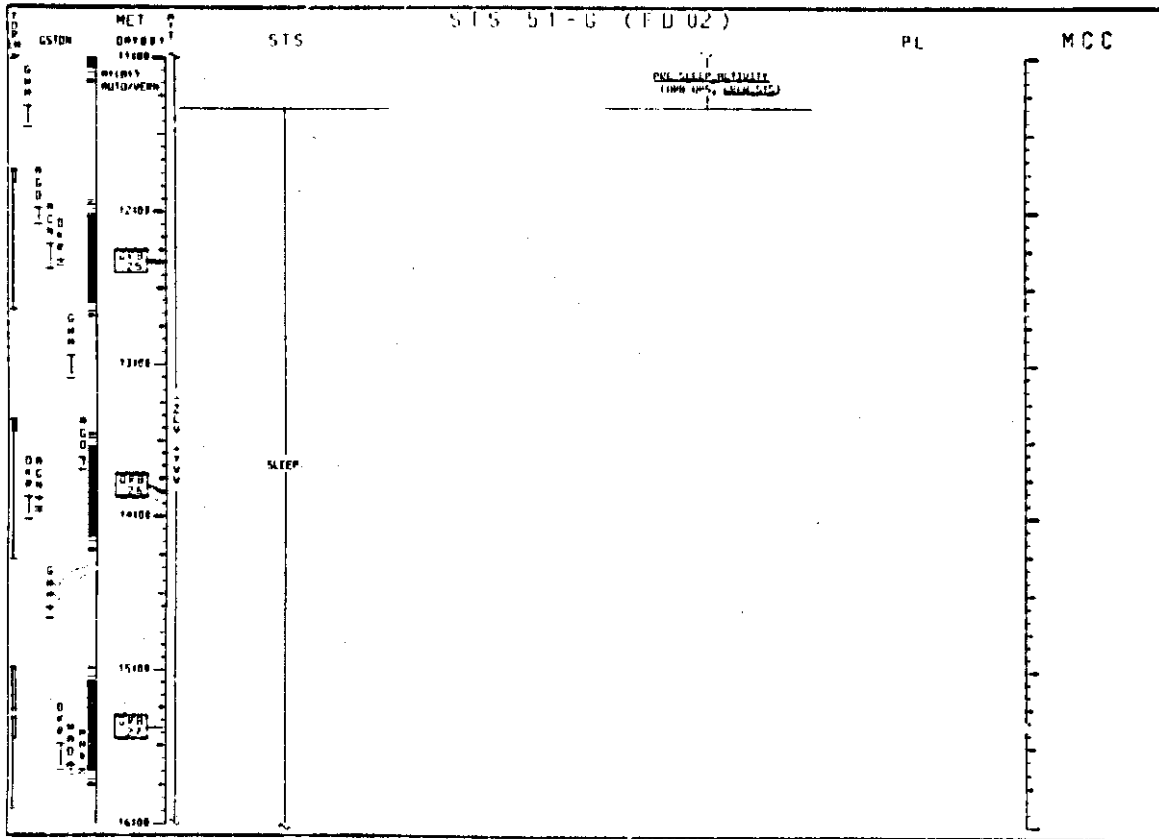




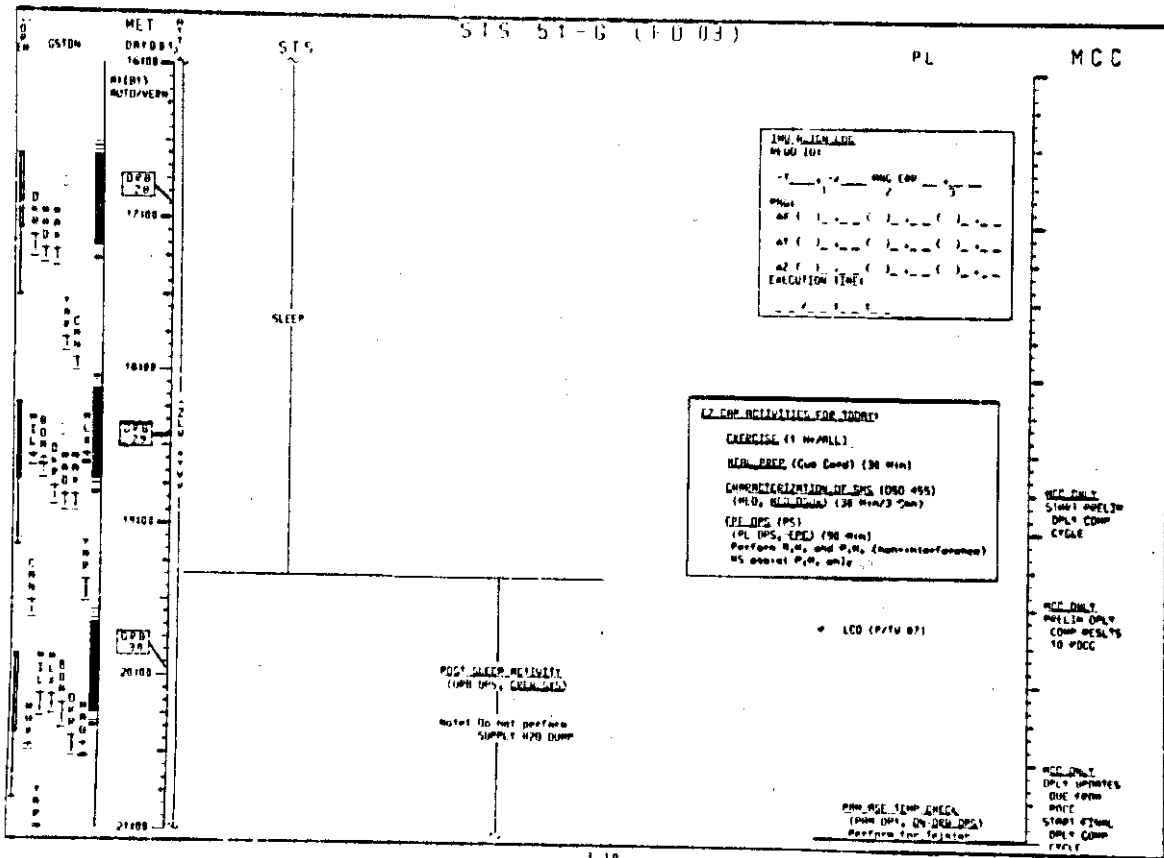


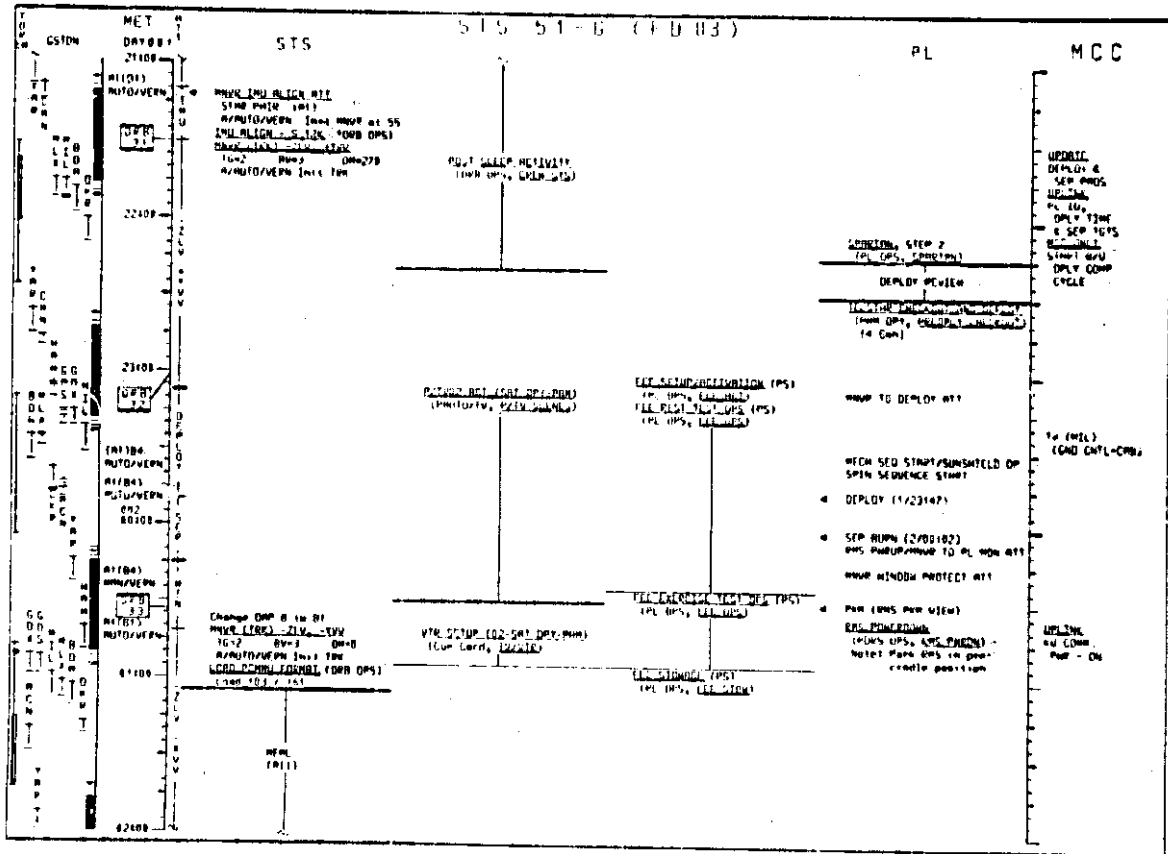


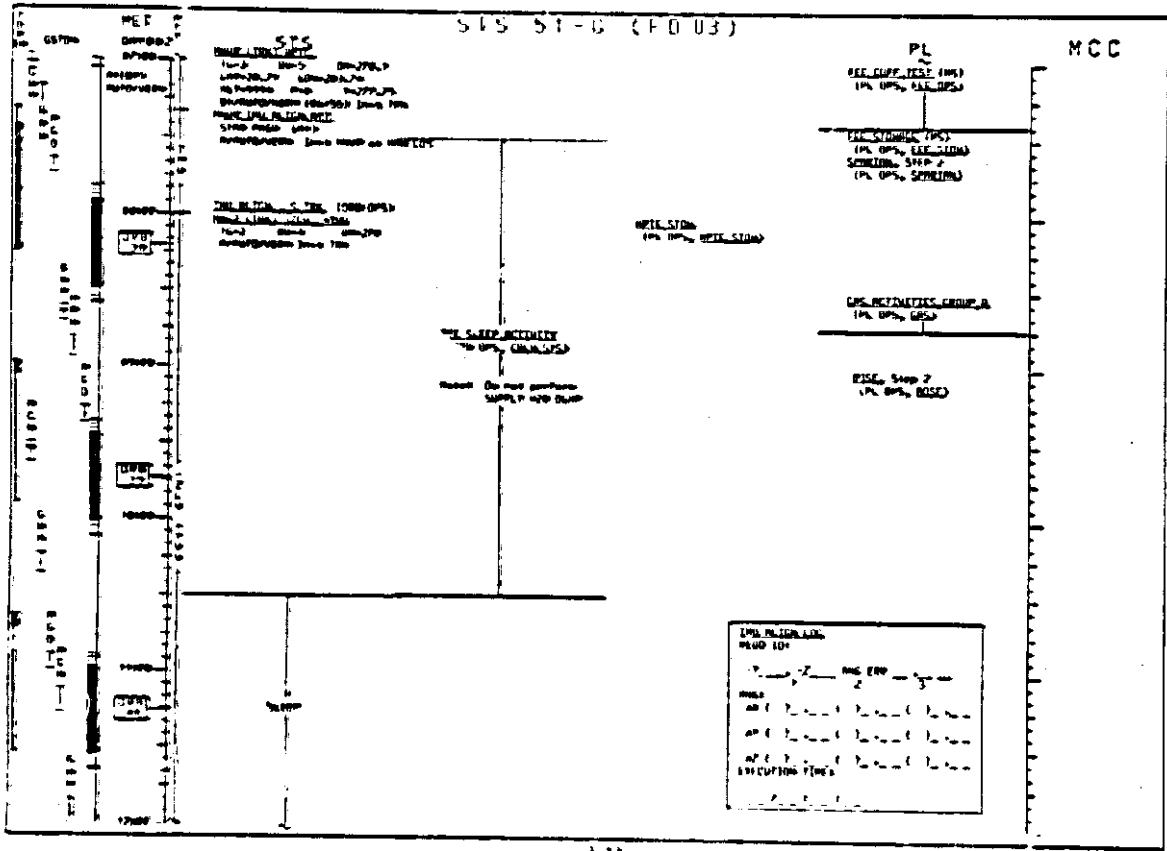
STS 51-G (FD 02)



CP/ST-51/GIN 5/22/68



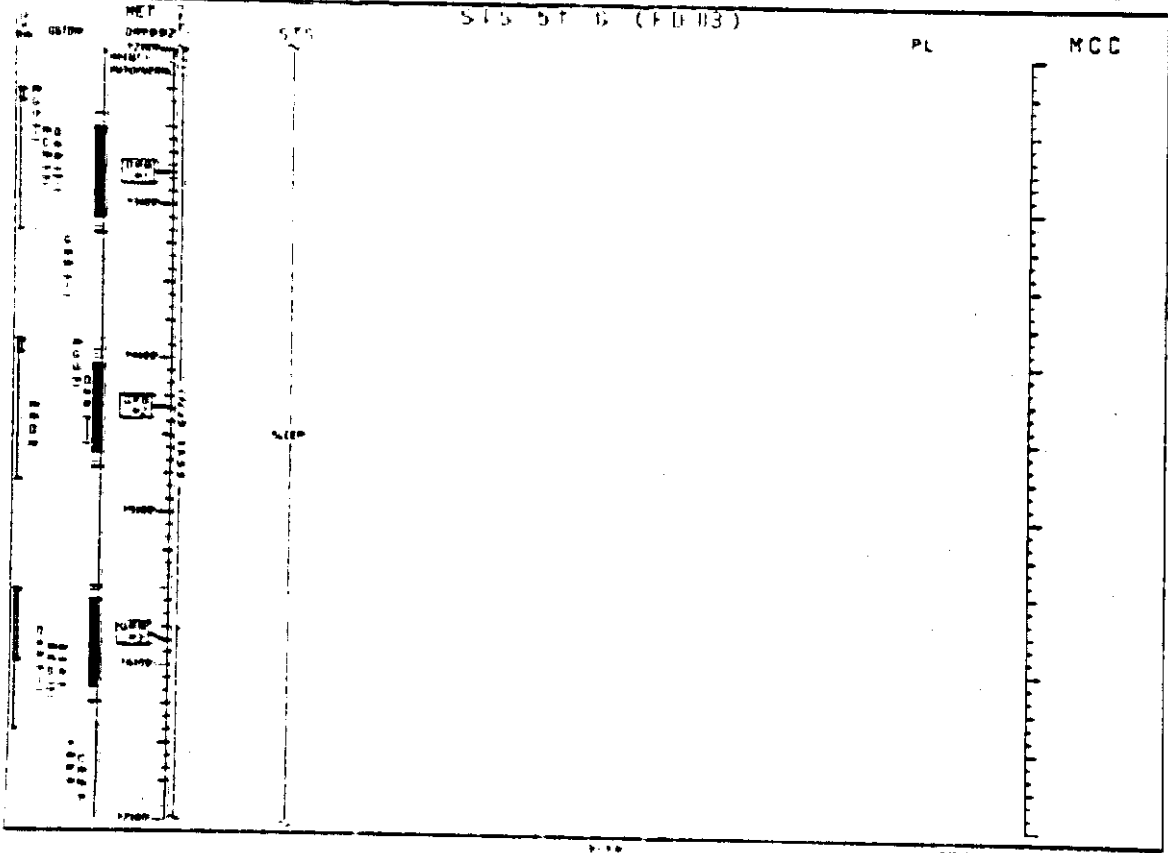




STG 51 G (FD03)

PL

MCC



STS 51-G (F004)

PL

MCC

CC-COR. RECEIVED FOR IDOLY
 (AIRCRA. TO IN/PLA)
 REG. REC. (How Card) (30 sec)
 REG. REC. (P/S)
 (PL OPS, P/S) (30 sec)
 (Performance, and P/S, (Interference))
 (PL OPS, P/S, and)

REG. REC. (P/S)
 (PL OPS, P/S)
 (Performance, and P/S, (Interference))
 (PL OPS, P/S, and)

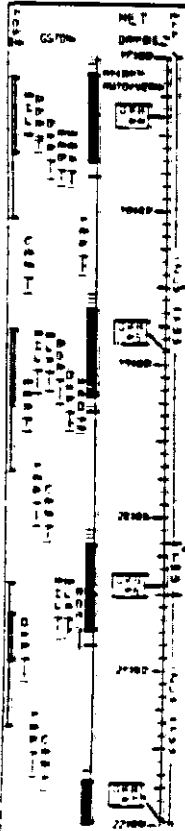
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 (PL OPS, P/S)
 (Performance, and P/S, (Interference))
 (PL OPS, P/S, and)

REG. REC. (P/S)
 (PL OPS, P/S)
 (Performance, and P/S, (Interference))
 (PL OPS, P/S, and)

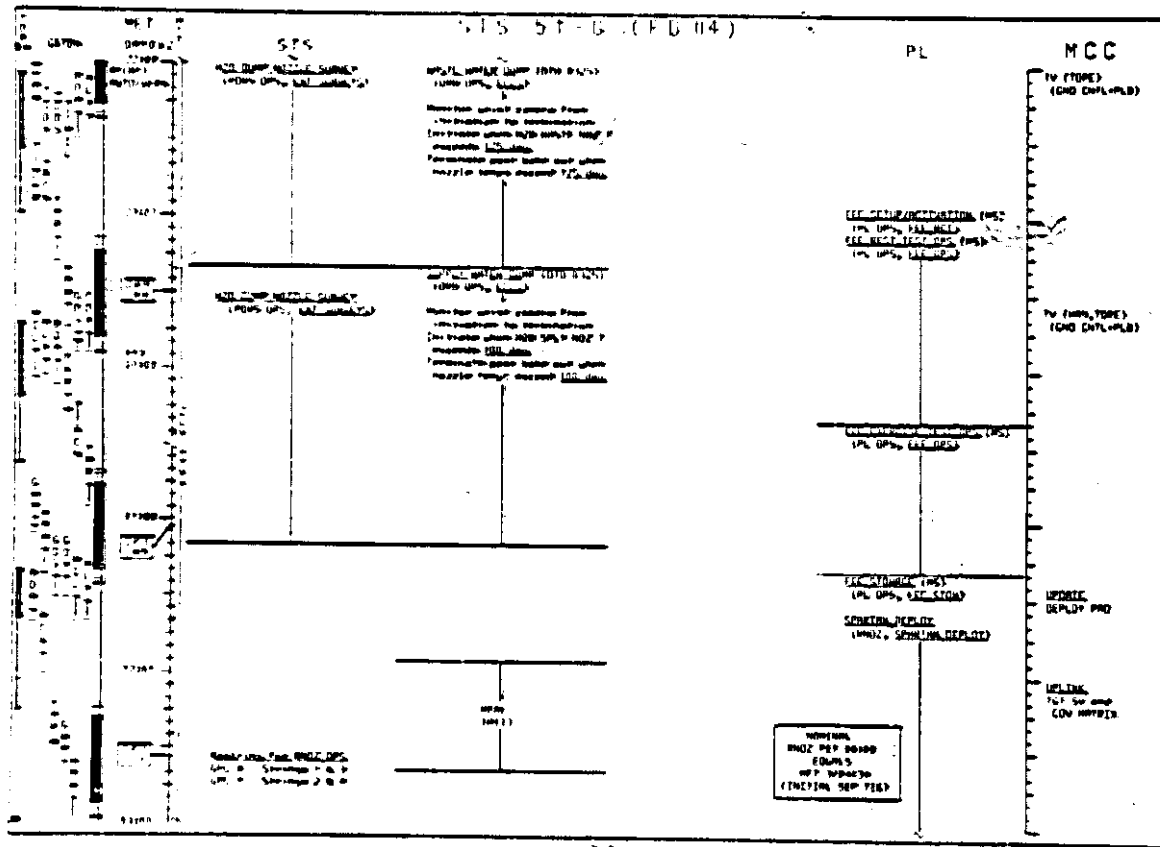
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 (PL OPS, P/S)
 (Performance, and P/S, (Interference))
 (PL OPS, P/S, and)

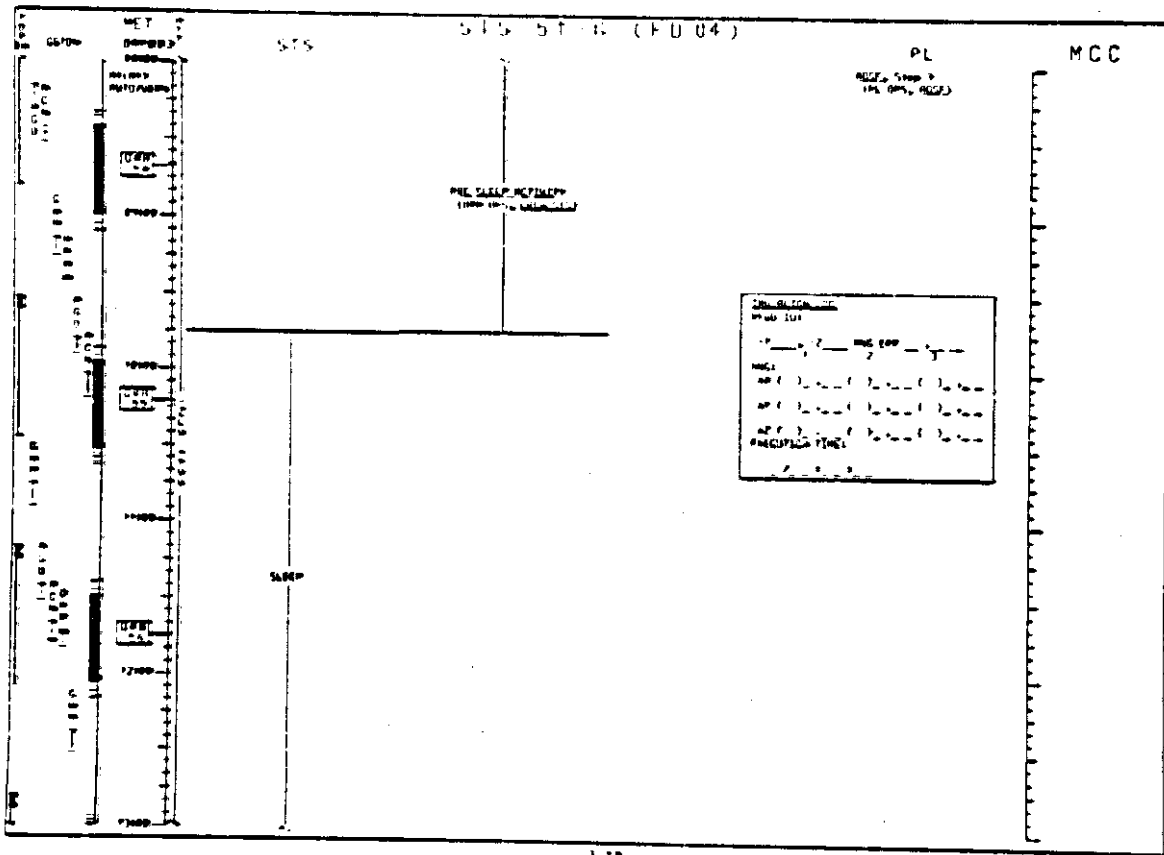
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 (PL OPS, P/S)
 (Performance, and P/S, (Interference))
 (PL OPS, P/S, and)

REG. REC. (P/S)
 (PL OPS, P/S)
 (Performance, and P/S, (Interference))
 (PL OPS, P/S, and)



STS
 10000

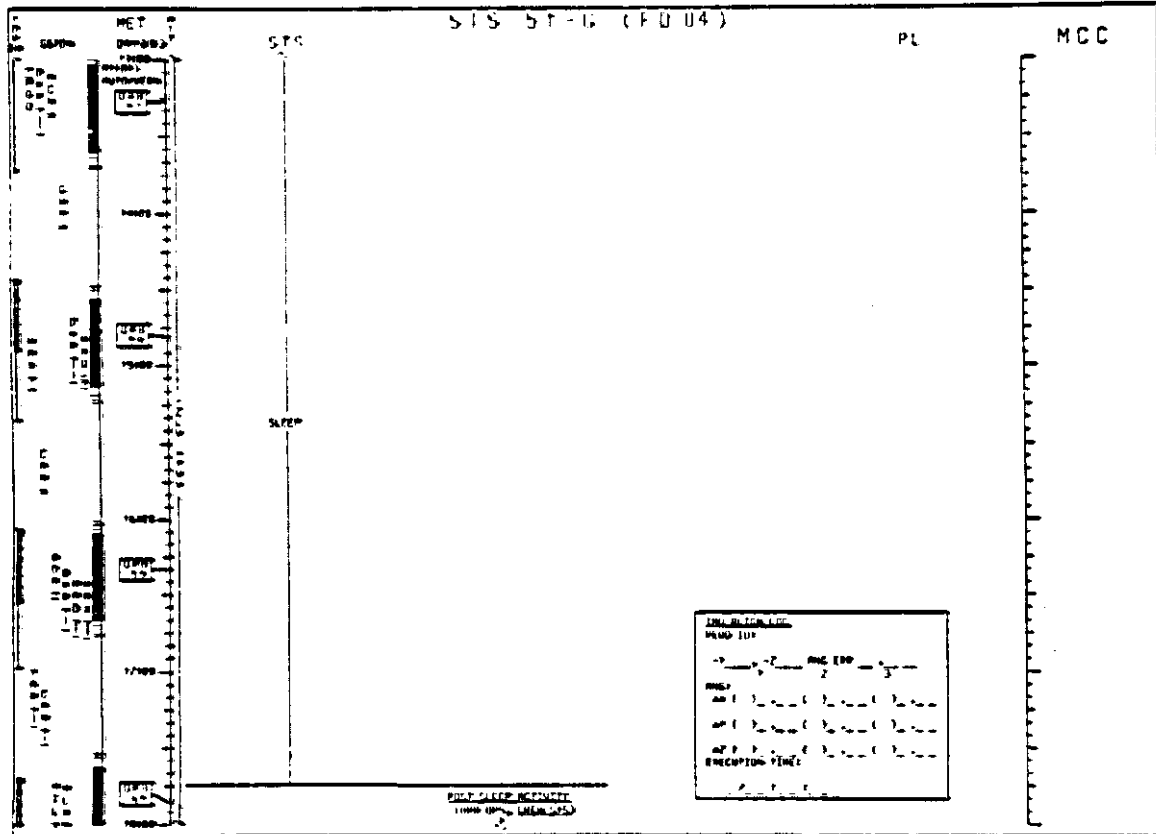


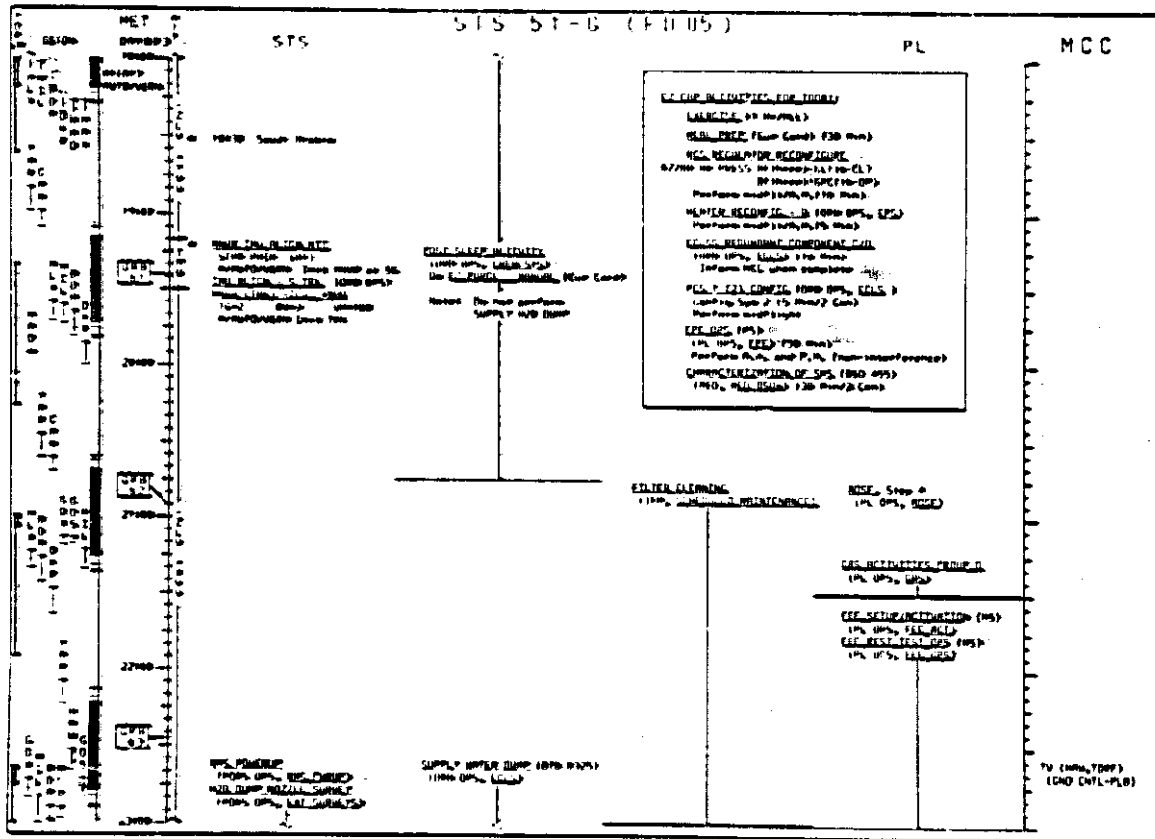


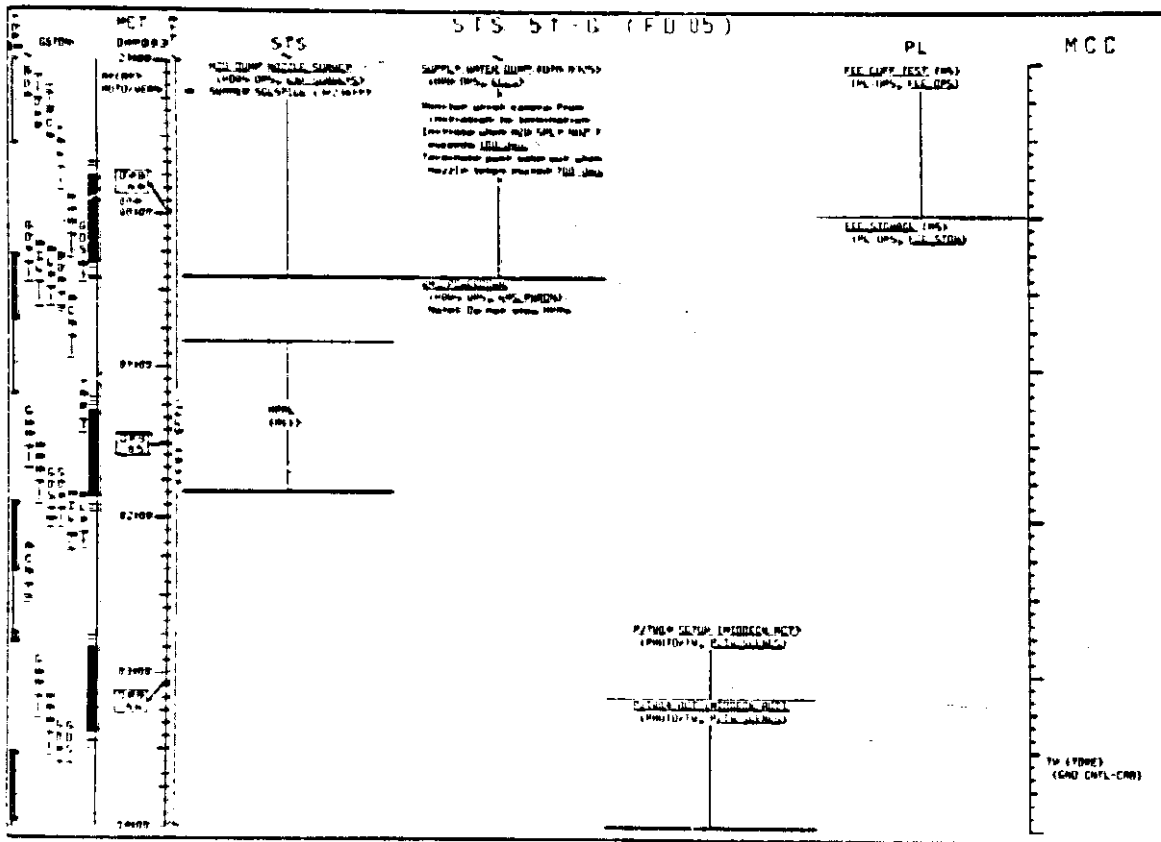
SIS ST-6 (FOUO)

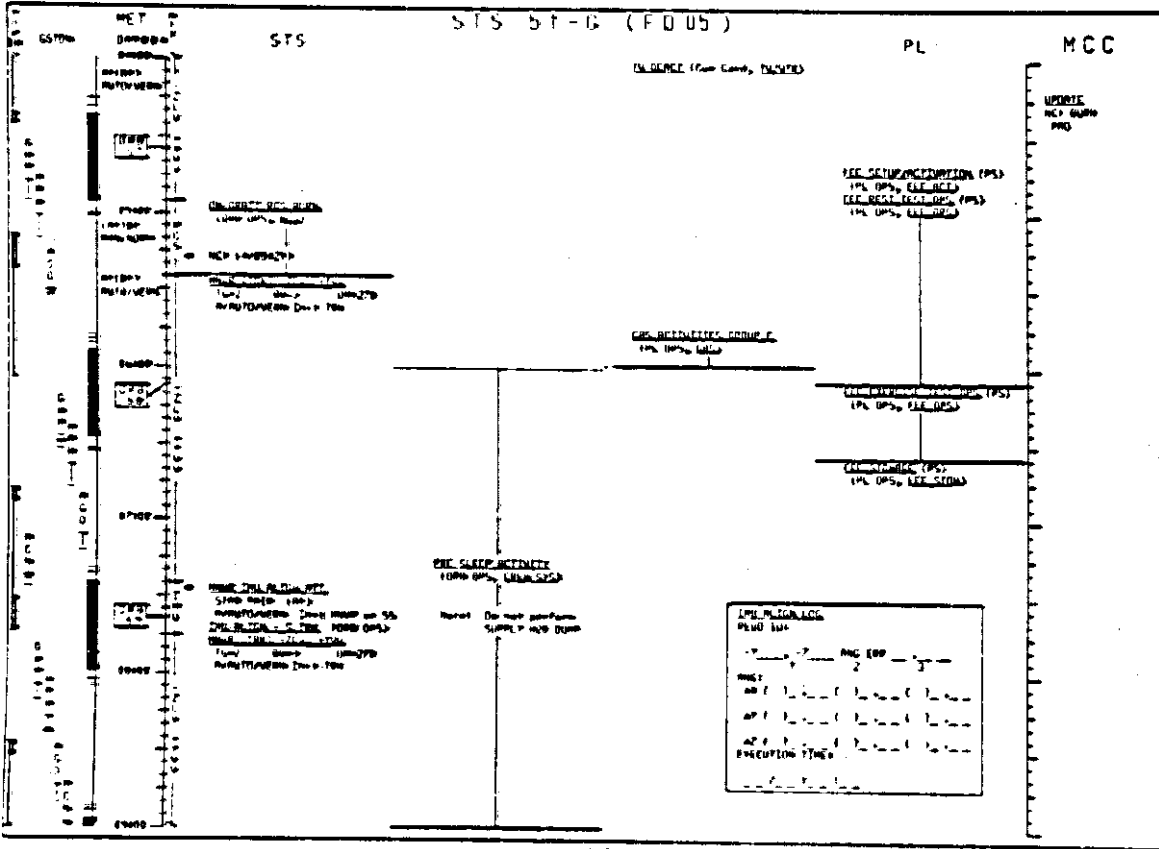
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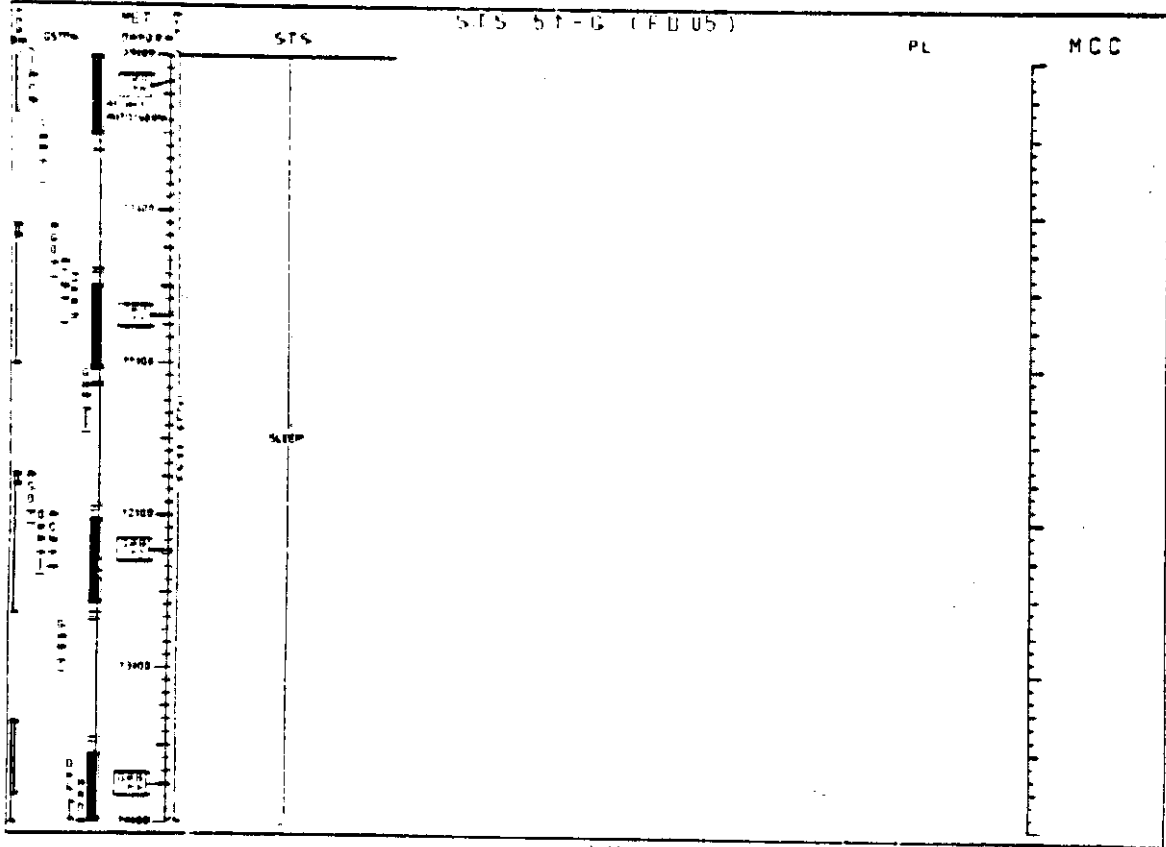
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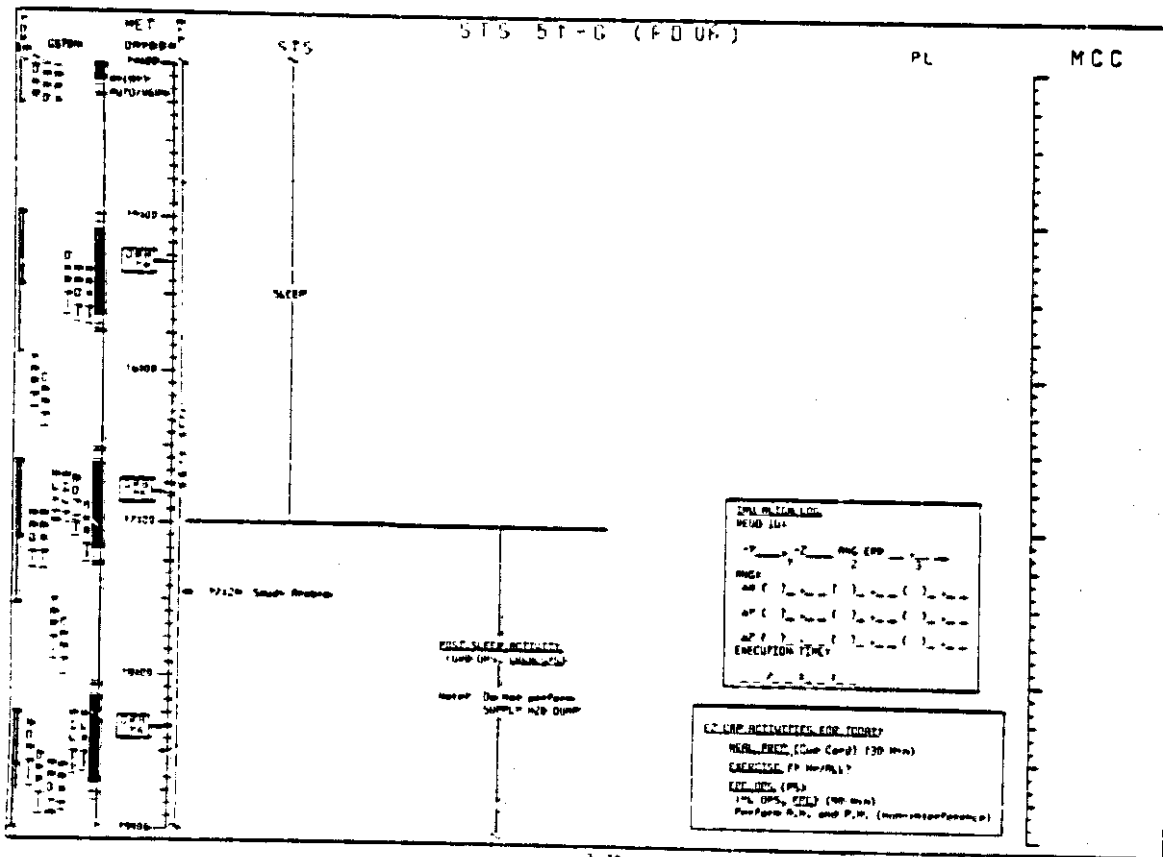


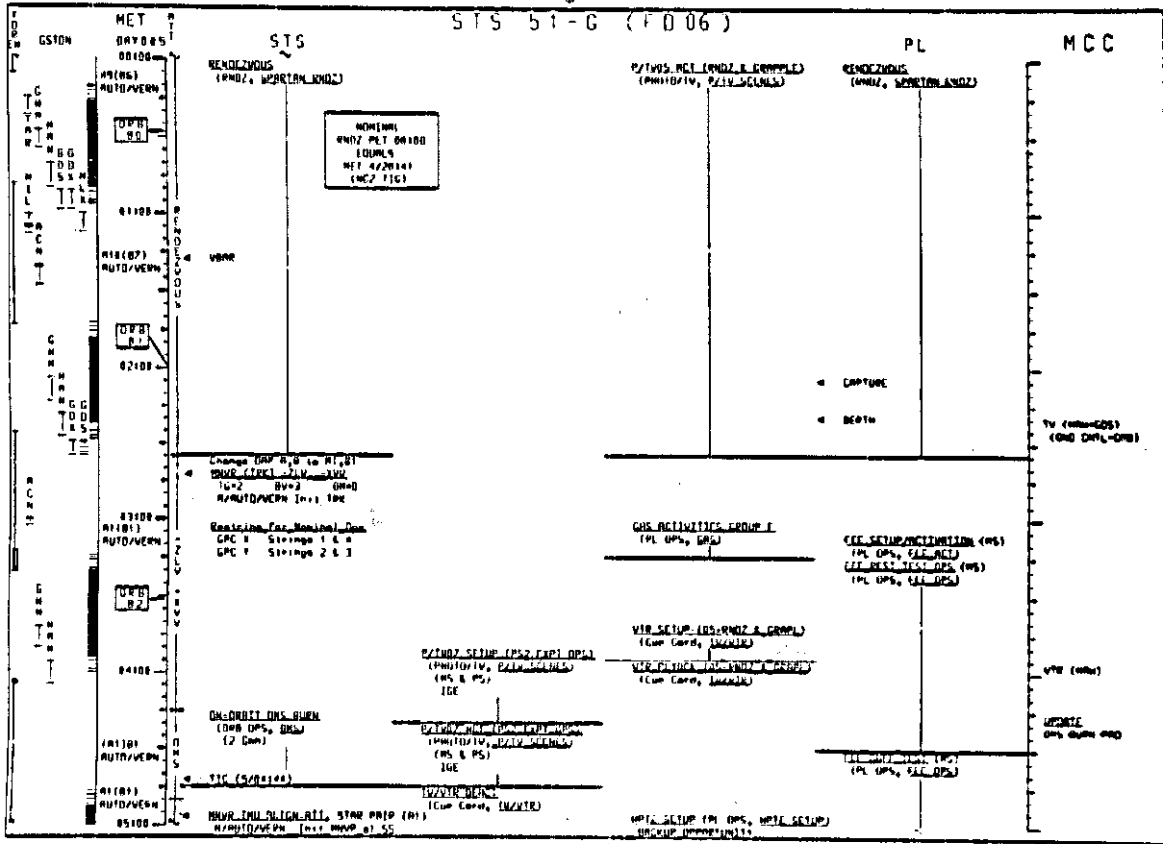


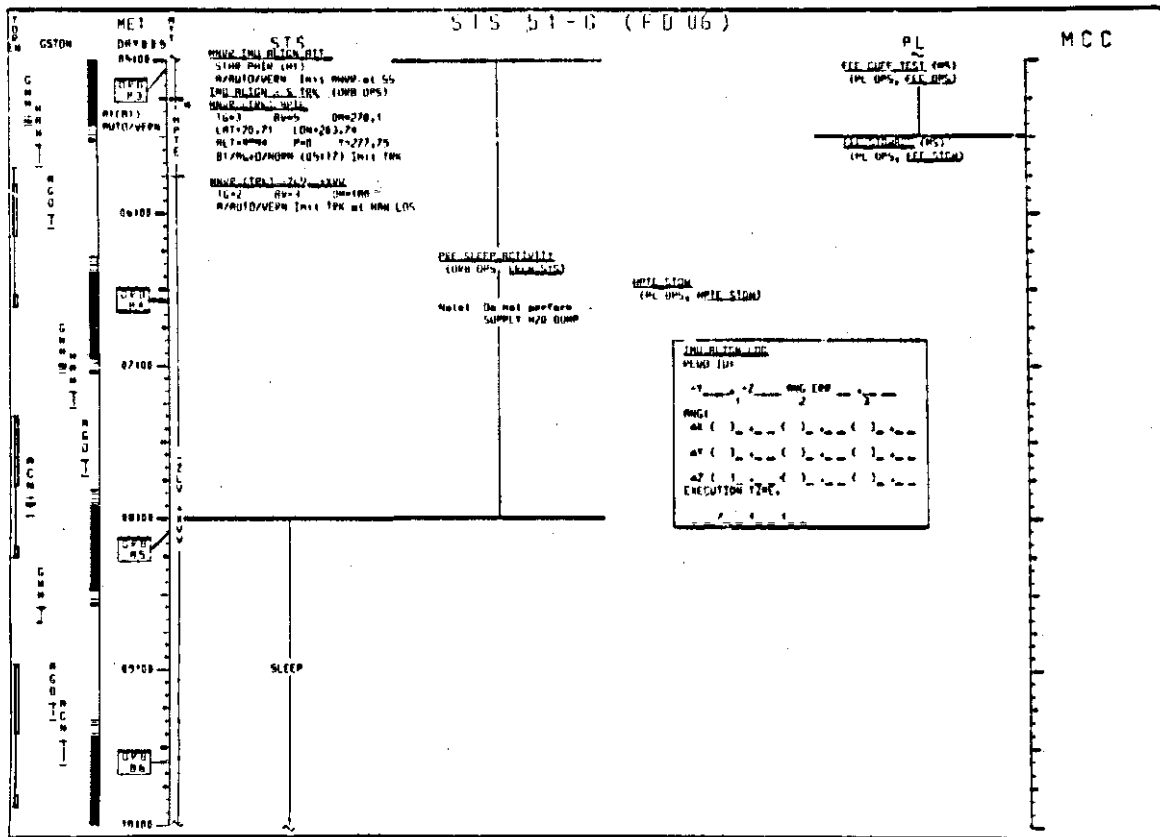




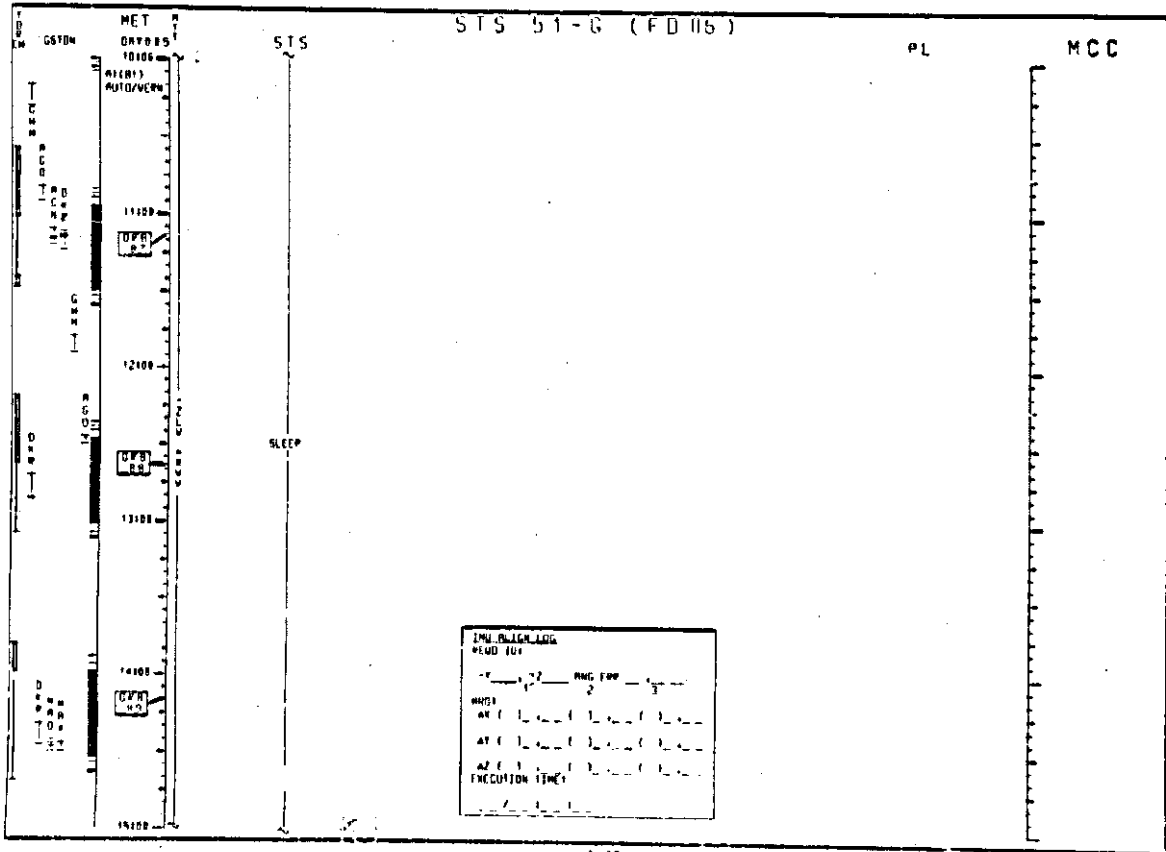


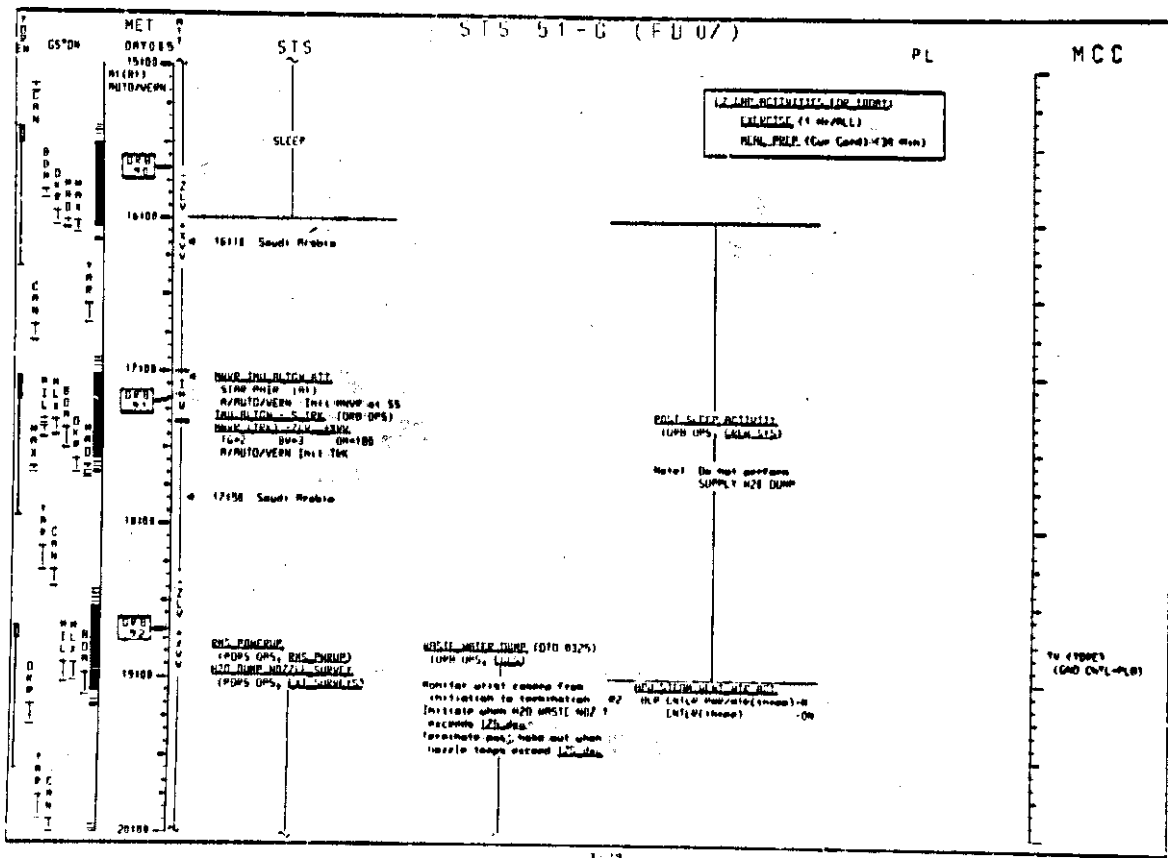


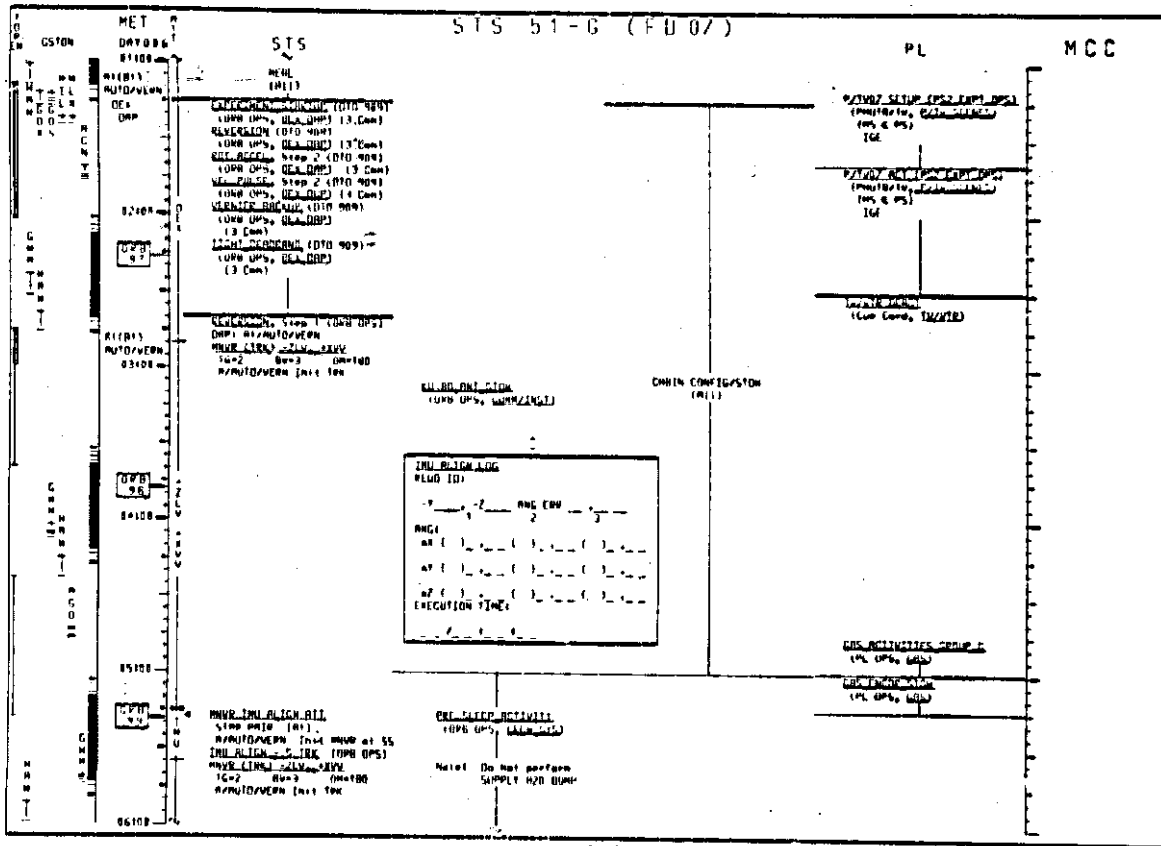




STS 51-G (FD 116)







02100

03100

04100

05100

06100

02100

03100

04100

05100

06100

02100

03100

04100

05100

06100

02100

03100

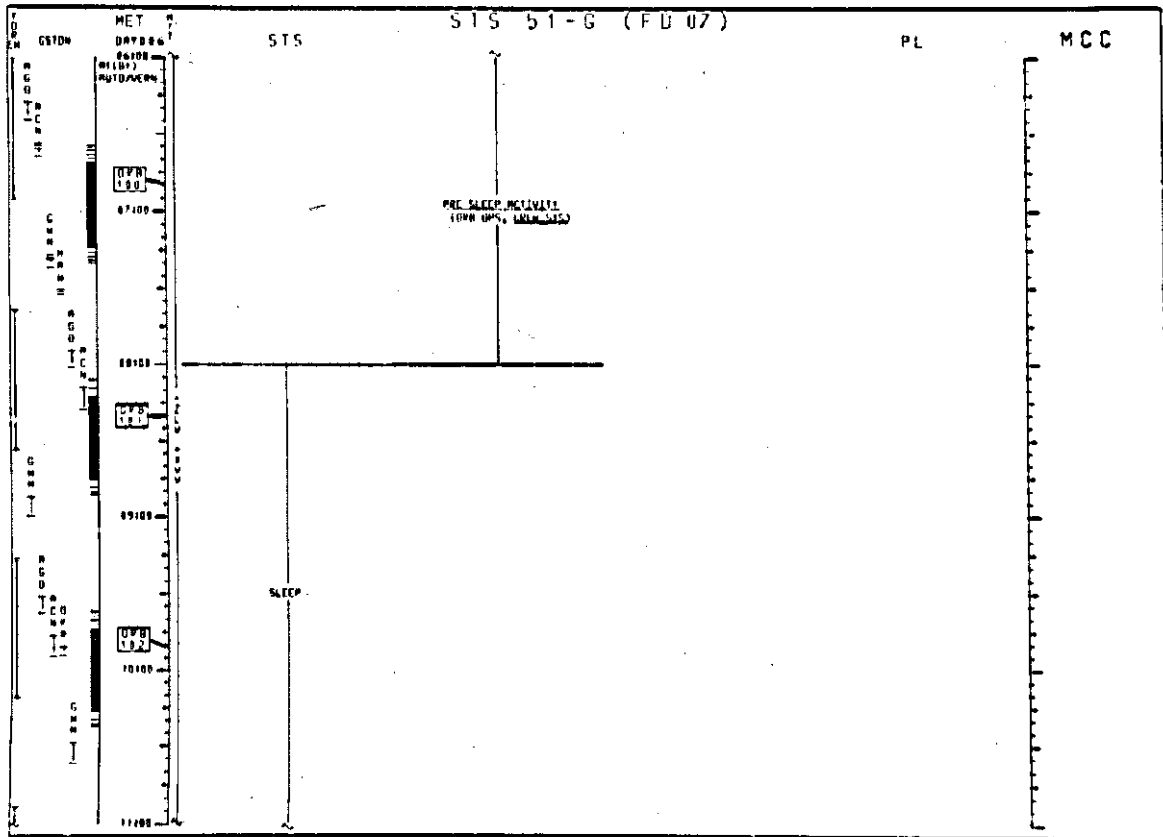
04100

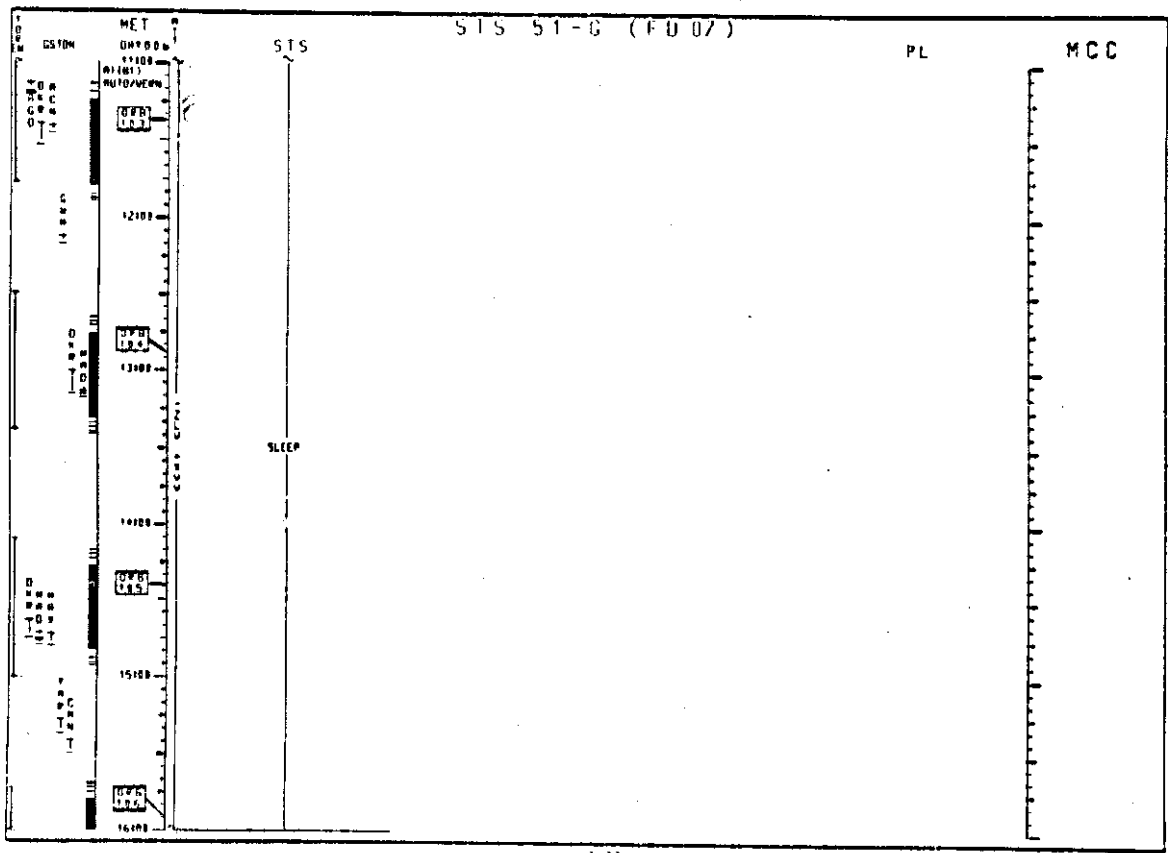
05100

06100

9-44

00001-00008 5/28/65





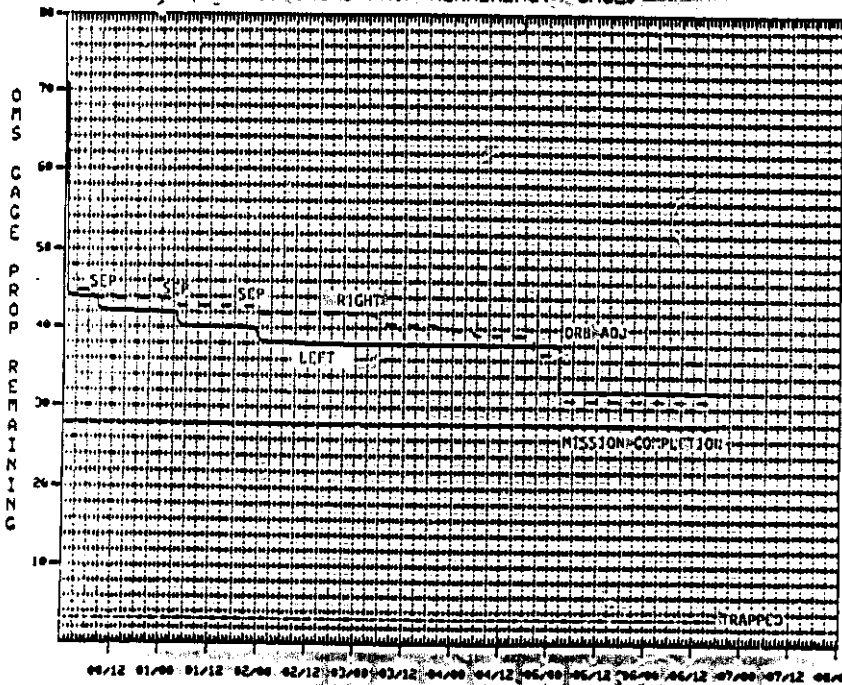
CONSUMABLES CURVES

CONSUMABLES
CURVES

CONSUMABLES
CURVES

27 March 1985
50DS J-758 add 4
Prepared by: P.A. Glover/DTSC
Verified by: *P.A. Glover*

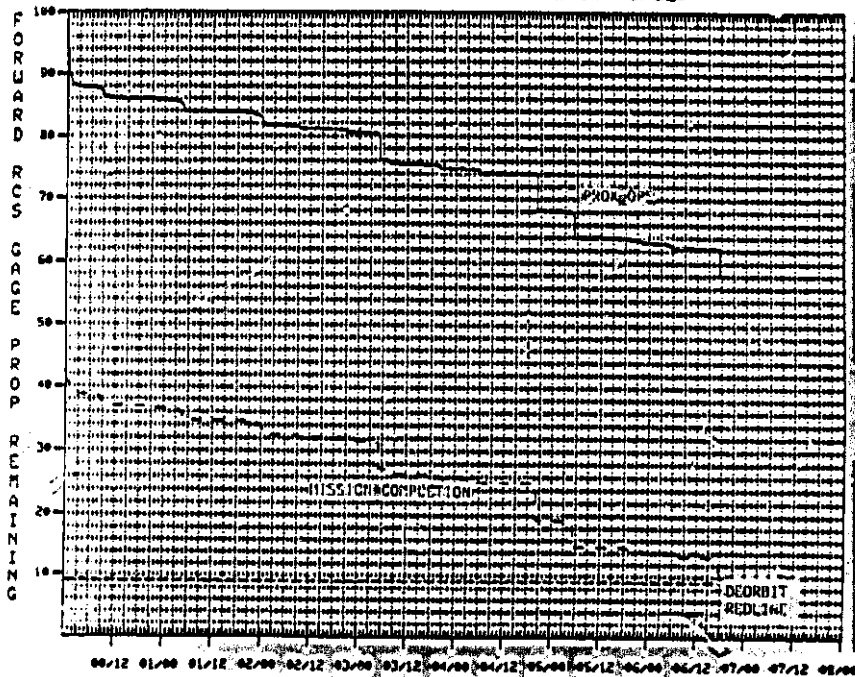
51-G OMS PROP REMAINING (% GAGE)



MISSION ELAPSED TIME IN DAYS/HOURS

27 March 1965
SOUJ J-750 add 4
Prepared by: R.A. Glover
Verified by: *R.D. Smith*

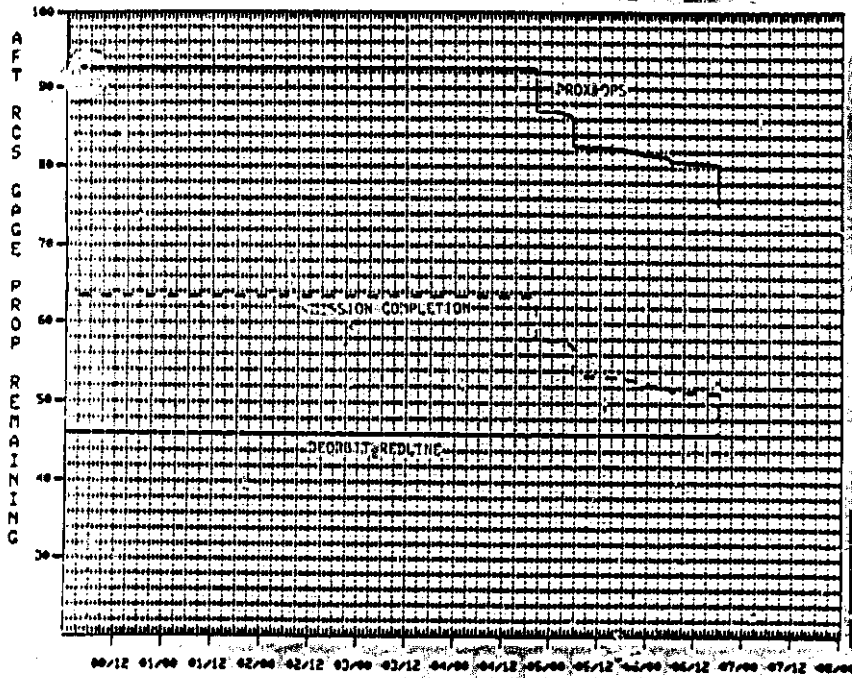
S1-G FORWARD RCS: PROP REMAINING(% GAGE)



MISSION ELAPSED TIME IN DAYS/HOURS

27 March 1985
S005 J-758 add 4
Prepared by: R.A.Glover/STSCD
Verified by: *R.J. Winkler*

51-G AFT RCS PROP REMAINING(% GAGE)



MISSION ELAPSED TIME IN DAYS/HOURS

4-4

CAP/51-G/FIN A

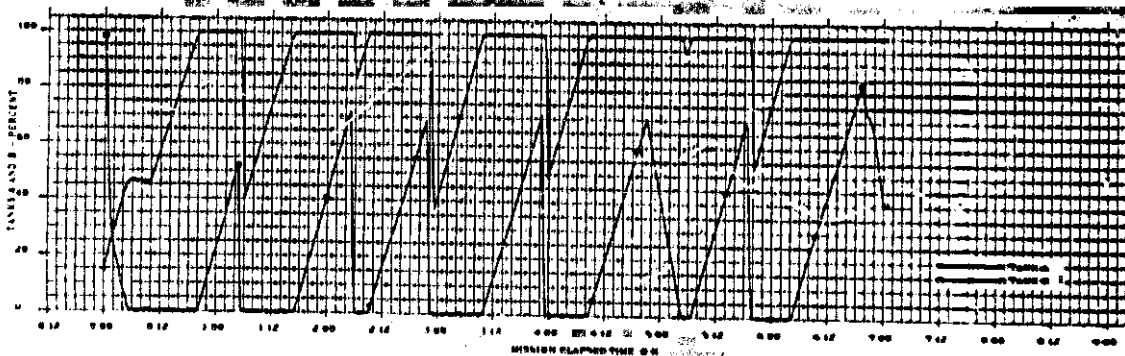
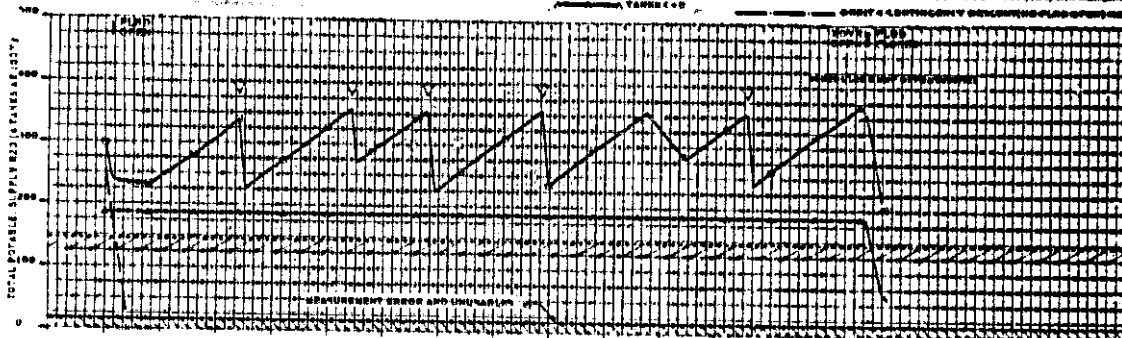
MISSION OPERATIONS DIRECTORATE - SYSTEMS DIVISION

THOMAS C. LATHROP
 JPL 20181 CAP/FINAL
 DATA CONFIGURATION *good stils*

TELEMETRY OFF-CYCLE 2
 CAP/FINAL
 SERIAL TIME DATE 02/16/00 0000

TABLE 4.0
 TABLE 4.0

ANYTIME (CONTINUOUS) ORBERT (10%) ON ORBE LINE
 ORBERT (10%) ON ORBE LINE (PLAS) ON ORBE LINE

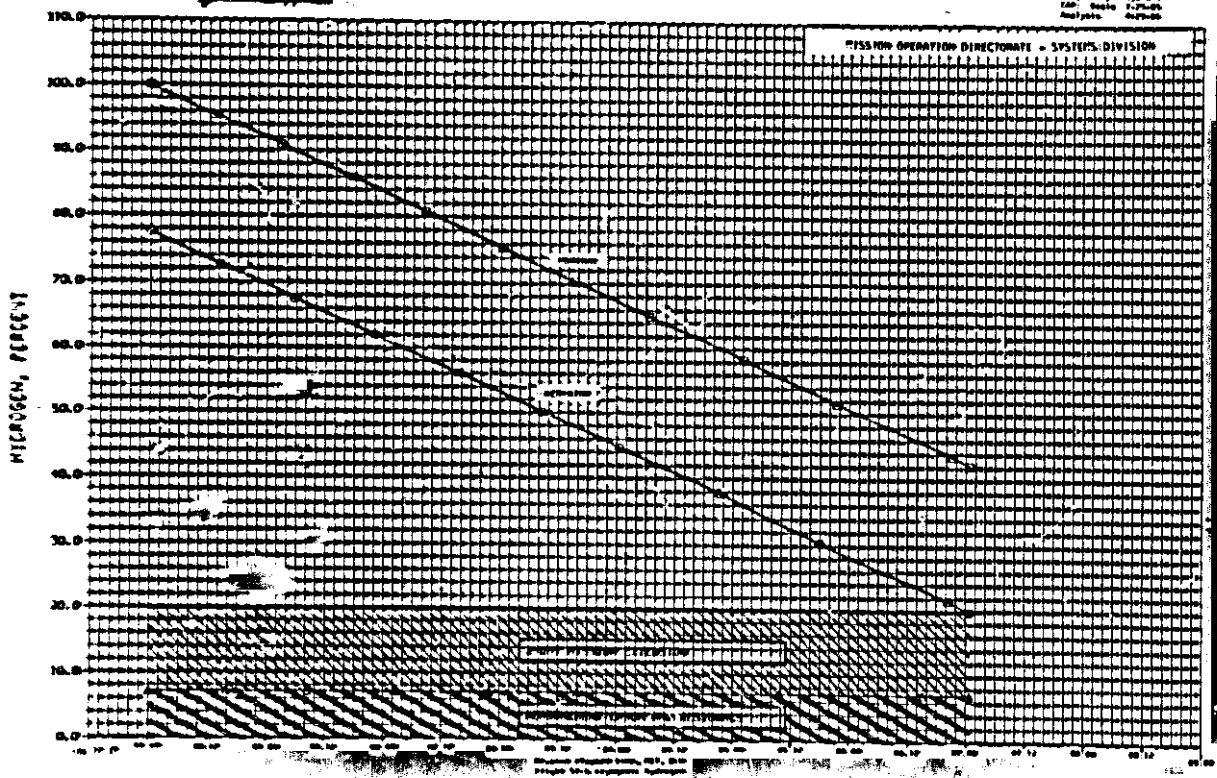


YRS 11 - G SUPPLY WATER

1. *Go back slide*

Trajectory: Cycle 3
LAP: 0600
MAY: 0600

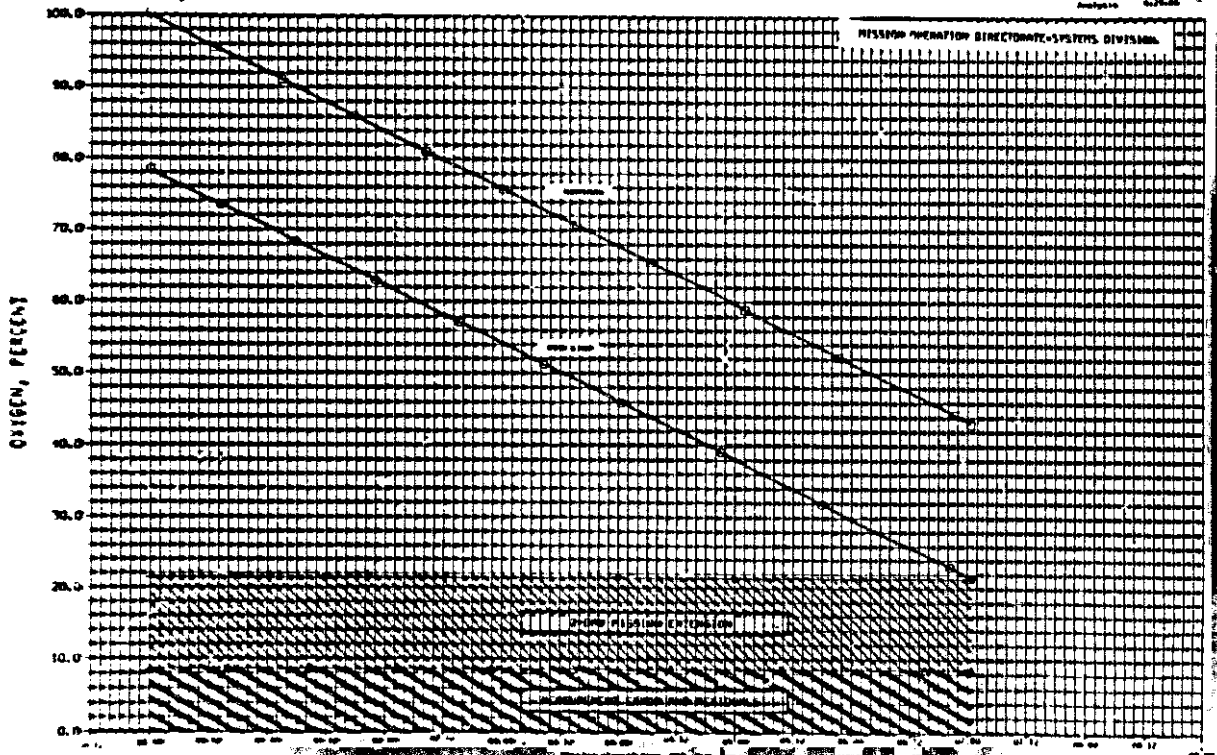
MISSION OPERATION DIRECTORATE - SYSTEMS DIVISION



CAP/ST-6/PTN A

SECRET
CLASSIFIED

Project No. 61-100
Case No. 61-100
Date 6-27-60



MISSION OPERATIONS DIRECTORATE-SYSTEMS DIVISION

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

STS 51-G DAP BOOK

DAP A CONFIGURATIONS.....	5-2
DAP B CONFIGURATIONS.....	5-3
STS 51-G DAP BOOK.....	5-4

DAP BOOK

DAP A CONFIGURATIONS

	A1*	A2	A3	A4	A5	A6	A7	A9	A10	A12
TRANSLATION										
PULSE ft/sec	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.10	0.05	0.10
ROTATION										
DSC RT NORM /sec	0.200	0.400	0.200	0.200	0.200	0.200	0.100	0.200	0.200	0.500
VERN /sec	0.200	0.400	0.200	0.008	0.200	0.200	0.008	0.200	0.200	0.200
PULSE NORM /sec	0.10	0.10	0.30	0.10	0.10	0.10	0.10	0.10	0.10	0.10
VERN /sec	0.010	0.010	0.010	0.010	0.050	0.010	0.010	0.010	0.010	0.010
COMP NORM /sec	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
VERN /sec	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GRABAND										
ATT NORM (deg)	5.00	1.00	5.00	1.00	5.00	5.00	1.00	2.00	2.00	2.00
VERN (deg)	1.000	1.000	1.000	0.070	1.000	1.000	0.500	1.000	1.000	1.000
RATE NORM /sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERN /sec	.020	.020	.020	.010	.020	.020	.010	.020	.020	0.020
JET OPT										
P	1	1	3	1	1	3	3	1	1	1
V	1	1	3	3	1	3	3	1	1	1
CRTL ACCEL	0	0	0	0	0	0	2	0	0	0

*1-LOADED OPS-2 DAP Configuration

DAP B CONFIGURATIONS

	B1*	B2	B3	B4	B5	B6	B7
<u>TRANSLATION</u>							
PULSE μ sec	0.02	0.02	0.02	0.02	0.02	0.05	0.01
<u>ROTATION</u>							
DSCRT NORM μ sec	0.500	0.200	0.200	0.200	0.200	0.500	0.200
VERN μ sec	0.200	0.200	0.200	0.008	0.016	0.200	0.200
PULSE NORM μ sec	0.04	0.04	0.04	0.04	0.04	0.04	0.04
VERN μ sec	0.002	0.002	0.002	0.002	0.002	0.002	0.002
COMP NORM μ sec	.00	.00	.00	.00	.00	.00	.00
VERN μ sec	.000	.000	.000	.000	.000	.000	.000
<u>DEADBAND</u>							
ATT NORM (deg)	3.00	3.00	3.00	0.30	3.00	2.00	2.00
VERN (deg)	1.000	1.000	1.000	0.100	0.033	1.000	1.000
RATE NORM μ sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERN μ sec	.020	.020	.020	.010	.020	.020	.020
<u>LEI OPT</u>							
P	1	3	1	1	3	1	1
Y	1	3	1	3	3	1	1
ENFL ACCEL	0	0	0	0	0	0	0

*1-LOADED O/S-2 DAP Configuration

TOP
FRONT COVER "DAP BOOK"

DAP BOOK

HOOK
VELCAO

CAP/SI-S/O/BAS

UNLY RTA	
TGT ID	1 Existing vehicle
	2 Earth chr
	3 Earth tgt
	Input CAT (+90)
	LN (+180, 0 = East)
	RT (-2444.0 to
	20000.0 m)
	4 Sun chr
	5 Co'astal tgt
	Input RA (0-150.99)
	DEC (+R)
	11-110 Ngr Stars
HOOK VECT	1 0
	2 10
	3 20
	4 PIC (+ or below +3)
	5 Optional
	Input P (0-359.99)
	V (270-359.99, 0-90)
	CH (0-359.99)
Input CH	CH (0-359.99)
NON RTIS	1 0
	2 1

CAP/SI-S/O/FIN

S/O DAP EGVEIR			
CONT ACCEL	0 0 Existing store	DET C/P	0 0 Rorpat
	1 SPARTAN at Rign		1 1 Rose only
	Rorpat		2 2 Tail only
	2 SPARTAN at Mid Bay		
	3 SPARTAN Overhead		

TOP
BACK OF FRONT COVER
"DAP BOOK"

(reduced copy)

TOP

DAP PURPOSE

- A1 - NOMINAL
- IMJ ALIGN
- LOSS OF VERN
- A2 - PTE
- A3 - RCS NOT FIRE
- A4 - GG
- A5 - IMJ ALIGN (ROTATING)
- A6 - LOSS OF VERN (TAIL ONLY)
- A7 - SPARTAN RELEASE
- A8 - RENDEZVOUS
- A10 - PROX OPS
- A11 - (Blank)
- A12 - PROX OPS

CAP/51-8/0/P16

A1

TOP

OAPA1

A1

PURPOSES

- NOMINAL
- IMJ ALIGN
- LOSS OF VERN
- (NOSE & TAIL)

0.1	0	1	TRANSLATION	
			PULSE	
0.1	0	2	ROTATION	
			DSC RT	NORM
0.1	0	3		VERN
			PULSE	NORM
0.1	0	4		VERN
			COMP	NORM
0.1	0	5		VERN
			DEARBAND	
0.1	0	6	ATT	NORM
				VERN
0.1	0	10	RATE	NORM
				VERN
0.1	0	11		
			JET OFF	P
0.1	0	12		
0.1	0	13		
0.1	0	14	CNTL ACCEL	

CAP/51-8/0/BAS

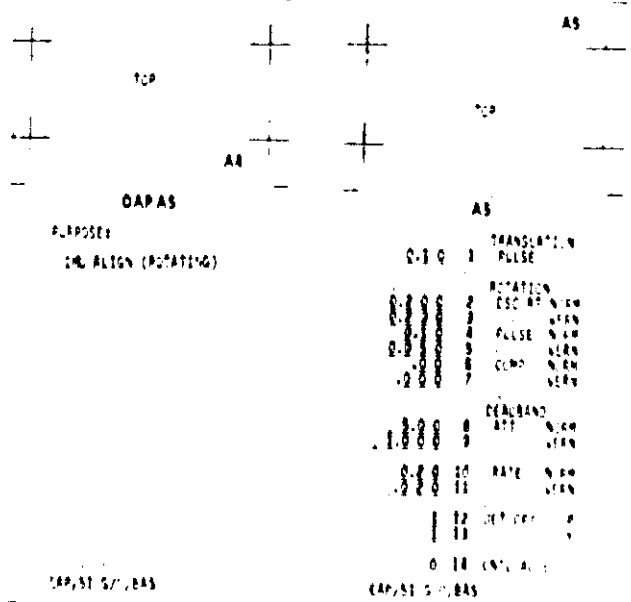
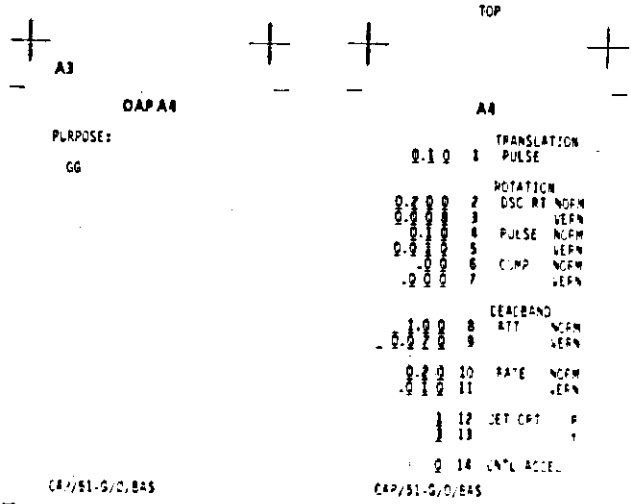
CAP/51-8/0/BAS

A2

TOP

+	+	+	+
-	-	-	-
A1			TOP
DAPA2			A2
PURPOSE:			TRANSLATION
PTC			PULSE
			ROTATION
			OSC RT NORM
			VEFN
			PULSE NORM
			VEFN
			COMP NORM
			VEFN
			DEADBAND
			ATT NORM
			VEFN
			RATE NORM
			VEFN
			JET OPT P
			V
			CNTL ACCEL
CAP/SI-G/O/DAS			CAP/SI-G/O/DAS

+	+	+	+
-	-	-	-
TOP			A3
A2			TOP
CAPA3			A3
PURPOSE:			TRANSLATION
RCB NOT FREQ			PULSE
			ROTATION
			OSC RT NORM
			VEFN
			PULSE NORM
			VEFN
			COMP NORM
			VEFN
			DEADBAND
			ATT NORM
			VEFN
			RATE NORM
			VEFN
			JET OPT P
			V
			CNTL ACCEL
CAP/SI-G/O/DAS			CAP/SI-G/O/DAS
+	+	+	+
-	-	-	-
TOP			A4



TOP

A5

DAP A6

PURPOSE:

LOSS OF VERN
(TAIL ONLY)

CAP/ST-G/O/BAS

A6

0-1 0 1 TRANSLATION PULSE

0-2 0	2	ROTATION	
0-3 0	3	DSC RT	NORM
0-4 0	4		VERN
0-5 0	5	PULSE	NORM
0-6 0	6	COMP	VERN
0-7 0	7		VERN

0-8 0	8	DEADBAND	
0-9 0	9	ATT	NORM
			VERN

0-10 0	10	RATE	NORM
0-11 0	11		VERN

	12	JET OPT	P
	13		V

0-14 CNTL ACCEL

CAP/ST-G/O/BAS

A9

TOP

A6

DAP A9

PURPOSE:

SPARTAN RELEASE

CAP/ST-G/O/BAS

A9

0-0 0 1 TRANSLATION PULSE

0-1 0	2	ROTATION	
0-2 0	3	DSC RT	NORM
0-3 0	4		VERN
0-4 0	5	PULSE	NORM
0-5 0	6	COMP	VERN
0-6 0	7		VERN

0-8 0	8	DEADBAND	
0-9 0	9	ATT	NORM
			VERN

0-10 0	10	RATE	NORM
0-11 0	11		VERN

	12	JET OPT	P
	13		V

0-14 CNTL ACCEL

CAP/ST-G/O/BAS

A9

TOP

(reduced copy)

E-8

A7

OAP A9

PURPOSE:
RENDEZVOUS

CAP/SI-G/O/BAS

TOP

OAPA10

PURPOSE:
PRGR OPS

CAP/SI-G/O/BAS

TOP

TOP

A9

Q-1 Q	1	TRANSLATION PULSE
Q-2 Q	2	POTATION DSC RT NORM VERN
Q-3 Q	3	PULSE NORM VERN
Q-4 Q	4	PULSE NORM VERN
Q-5 Q	5	COMP NORM VERN
Q-6 Q	6	COMP NORM VERN
Q-7 Q	7	COMP NORM VERN
Q-8 Q	8	DEARBAND ATT NORM VERN
Q-9 Q	9	DEARBAND ATT NORM VERN
Q-10 Q	10	RATE NORM VERN
Q-11 Q	11	RATE NORM VERN
Q-12 Q	12	DET OFF
Q-13 Q	13	DET OFF
Q-14 Q	14	ON/L ACCEL

CAP/SI-G/O/BAS

A10

TOP

A10

Q-2 Q	1	TRANSLATION PULSE
Q-3 Q	2	POTATION DSC RT NORM VERN
Q-4 Q	3	PULSE NORM VERN
Q-5 Q	4	PULSE NORM VERN
Q-6 Q	5	COMP NORM VERN
Q-7 Q	6	COMP NORM VERN
Q-8 Q	7	COMP NORM VERN
Q-9 Q	8	DEARBAND ATT NORM VERN
Q-10 Q	9	DEARBAND ATT NORM VERN
Q-11 Q	10	RATE NORM VERN
Q-12 Q	11	RATE NORM VERN
Q-13 Q	12	DET OFF
Q-14 Q	13	DET OFF
Q-15 Q	14	ON/L ACCEL

CAP/SI-G/O/BAS

A11



A10



TLO



OAPA11

PURPOSE: (Blank)

CAP/51-510/BAS



TOP

A11

OAP A12

PURPOSE:
PAGE 05

CAP/51-510/PIN



TOP

(reduced copy)

A11

1 TRANSLATION
PULSE

2 ROTATION
DSC AT NORM
3 PULSE NORM
4 PULSE NORM
5 PULSE NORM
6 CLMP NORM
7 VERN

8 DEACBAND
ATT NORM
9 VERN

10 RATE NORM
11 VERN

12 SET OPT P
13

14 CNTL ACCEL

CAP/51-510/PIN

A12

TOP

A12

1 TRANSLATION
PULSE

2 ROTATION
DSC AT NORM
3 PULSE NORM
4 PULSE NORM
5 PULSE NORM
6 CLMP NORM
7 VERN

8 DEACBAND
ATT NORM
9 VERN

10 RATE NORM
11 VERN

12 SET OPT P
13

14 CNTL ACCEL

CAP/51-510/PIN

+

A12

+

+

TOP

+

CAP PURPOSE

- B1 - NOMINAL
PACS THU ALIGN
CPS & RCS BURNS
- B2 - LOSS OF VERN
(TAIL ONLY)
- B3 - LOSS OF VERN
GG MKR
- B4 - PAM DEPLOY
FRISBEE DEPLOY
- B5 - CCAS CAL
- B6 - RENDEZVOUS
- B7 - PROX OPS
- B8 - (Blank)

CAP 51/2 0 P2N

CAP/51-040/P2N

B1

TOP

TOP

DAPB1

B1

PURPOSE:
NOMINAL
PACS THU ALIGN
CPS & RCS BURNS

TRANS LATE	
FLUSE	15
ROTATION	
ESC RT N GR	16
VERN	17
PULSC N GR	18
VERN	19
TIME N GR	20
VERN	21
DEAC BAND	
ATT N GR	22
VERN	23
DATE N GR	24
VERN	25
REF RT	26
VERN	27
LNTL RILE	
CAP/51-07/BA	

CAP/51-07/BA

B2

TOP

(reduced copy)

TOP

B1

OAP B2

PURPOSE:
LOSS OF VERN
(TAIL ONLY)

CAP/51 G-0-BAS

TOP

B2

OAP B3

PURPOSE:
LOSS OF VERN
(NOSE & TAIL)
25 W.A.

CAP/51 G-0-BAS

TOP

B2

TRANSLATION					
PULSE	15	0.0	0	0	0
ROTATION					
OSC RT NORM	16	0	0	0	0
VERN	17	0	0	0	0
PULSE NORM	18	0	0	0	0
VERN	19	0	0	0	0
COMP N.A.M	20	0	0	0	0
VERN	21	0	0	0	0
DEADBAND					
ATT NORM	22	1.0	0	0	0
VERN	23	1.0	0	0	0
PAGE NORM	24	0	0	0	0
VERN	25	0	0	0	0
NET OPT P	26				
V	27				
ENTL ACCEL	28				
CAP/51 G-0-BAS					

B3

TOP

B3

TRANSLATION					
PULSE	15	0.0	0	0	0
ROTATION					
OSC RT NORM	16	0	0	0	0
VERN	17	0	0	0	0
PULSE NORM	18	0	0	0	0
VERN	19	0	0	0	0
COMP N.A.M	20	0	0	0	0
VERN	21	0	0	0	0
DEADBAND					
ATT NORM	22	1.0	0	0	0
VERN	23	1.0	0	0	0
PAGE NORM	24	0	0	0	0
VERN	25	0	0	0	0
NET OPT P	26				
V	27				
ENTL ACCEL	28				
CAP/51 G-0-BAS					

B4

+	+	+	+
83			TOP
OAP 84			84
PURPOSE:		TRANSLATION	
PAM DEPLOY		PULSE	15 0-0 2
FRISBEE DEPLOY		POTATION	
		ESC RT NORM	16 0-0 0
		VERN	17 0-0 0
		PULSE NORM	18 0-0 0
		VERN	19 0-0 0
		CUM NORM	20 0-0 0
		VERN	21 0-0 0
		DEADEND	
		ATT NORM	22 0-0 0
		VERN	23 0-0 0
		RATE NORM	24 0-0 0
		VERN	25 0-0 0
		JET CRT P	26 1
		VERN	27 1
		CN'L ACCEL	28 2
CAP/51-G/O/BAS		CAP/51-G/O/BAS	

+	+	+	+
TOP			85
OAP 85			85
PURPOSE:		TRANSLATION	
COAS CAL		PULSE	15 0-0 2
		POTATION	
		ESC RT NORM	16 0-0 0
		VERN	17 0-0 0
		PULSE NORM	18 0-0 0
		VERN	19 0-0 0
		CUM NORM	20 0-0 0
		VERN	21 0-0 0
		DEADEND	
		ATT NORM	22 0-0 0
		VERN	23 0-0 0
		RATE NORM	24 0-0 0
		VERN	25 0-0 0
		JET CRT P	26 1
		VERN	27 1
		CN'L ACCEL	28 2
CAP/51-G/O/BAS		CAP/51-G/O/BAS	



85

OAP 86

PURPOSE:
RENDEZVOUS

CAP/51-G/O/BAS



TOP



86

OAP 87

PURPOSE:
REFUEL

CAP/51-G/O/BAS



TOP

(reduced copy)



TOP



86

TRANSLATION			
PULSE	15	0.0	0
ROTATION			
DSC PT	NORM 16	0.0	0
	VERN 17	0.0	0
PULSE	NORM 18	0.0	0
	VERN 19	0.0	0
COMP	NORM 20	0.0	0
	VERN 21	0.0	0
DEADBAND			
ATT	NORM 22	1.0	0
	VERN 23	1.0	0
RATE	NORM 24	0.0	0
	VERN 25	0.0	0
JET CPT	P 26		1
	V 27		0
CNTL ACCEL	28		0
CAP/51-G/O/BAS			

87

TOP

87

TRANSLATION			
PULSE	15	0.0	0
ROTATION			
DSC PT	NORM 16	0.0	0
	VERN 17	0.0	0
PULSE	NORM 18	0.0	0
	VERN 19	0.0	0
COMP	NORM 20	0.0	0
	VERN 21	0.0	0
DEADBAND			
ATT	NORM 22	1.0	0
	VERN 23	1.0	0
RATE	NORM 24	0.0	0
	VERN 25	0.0	0
JET CPT	P 26		1
	V 27		0
CNTL ACCEL	28		0
CAP/51-G/O/BAS			

88

6-14

+

87

+

+

TOP

+

OAP 88

PURPOSE: (Blank)

88

TRANSLATION
PULSE 15

ROTATION

DSC RT NORM 16

VERN 17

PULSE NORM 18

VERN 19

COMP NORM 20

VERN 21

DEADBAND

ATT NORM 22

VERN 23

RATE NORM 24

VERN 25

JET OPT P 26

V 27

CNTL ACCEL 28

CAP/51-G/C/BAS

CAP/51-G/C/BAS

+

+

+

+

TOP

+

+

88

CAP/51-G/C/BAS

+

TOP

(reduced copy)

TOP
BACK COVER "DAP BUCK"

HOOK
VELCRO

CAP/51-G/2/BAS

ATTITUDE
TIMELINE

ATTITUDE TIMELINE

ATTITUDE
TIMELINE

Attitude Timeline

REV	MNVR OPTION	MAP	E/S	FERRIS	EVENT	
1	0 01100:00 TFA TGT#2 B*AS: 30.00, 15.00 OM=100.00	A1 AUTO NORM	BIC 0.200 EB AT 5.00 EB RT 0.20	EARTH 0 30 0 15	LVLN P#145 P# 0 Y# 0	FLIB OPENING BIASED -CLV
2	0 02100:00 37:16 MNVR P#312.00 P#151.00 Y# 43.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 67 0 121		IMU ALIGN CCAI CAL PAIR A1
3	0 02100:00 33:44 TFA TGT#2 B*AS: 30.00, 0.00 OM=270.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 160	LVLN P#100 P# 0 Y# 30	-CLV #100
4	0 07124:15 34:16 MNVR P#109.14 P# 49.94 Y# 19.29	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 30 0 177		MORSECS DEPLO.
5	0 03107:35 16:59 MNVR P#276.00 P#154.00 Y#110.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 112 0 154		IR# 154
6	0 08122:15 21:22 TFA TGT#2 B*AS: 30.00, 0.00 OM=100.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 90	LVLN P#100 P# 0 Y# 0	FA, LCAE -CLVING
7	0 01100:00 40:19 TFA TGT#2 B*AS: 140.00, 15.00 OM=10.00	A1 AUTO ERN	BIC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 116 0 149	LVLN P# 17 P# 12 Y# 10	WINDM PROTECT
8	0 03104:10 CANCEL	A1 AUTO ERN	BIC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 111 0 172	INRFL P#100 P# 5 Y#122	INRFL HOLD FOR PAH
9	0 03100:00 01:55 TFA TGT#2 B*AS: 30.00, 0.00 OM=270.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 160	LVLN P#100 P# 0 Y# 30	-CLV #100
10	0 10100:00 19:39 MNVR P#312.00 P#151.00 Y# 43.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 67 0 121		IMU ALIGN PAIR A1
11	0 10100:00 15:21 TFA TGT#2 B*AS: 30.00, 0.00 OM=270.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 160	LVLN P#100 P# 0 Y# 30	-CLV #100
12	0 20100:00 23:10 MNVR P#312.00 P#151.00 Y# 43.00	A1 AUTO VERN	BIC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 67 0 121		IMU ALIGN PAIR A1

ALL ATTITUDES IN MEAN OF 0350

11
Attitude SineStar

NET	MNVP OPTION	TAP	E-S	PERAPS	EVENT	
1 0-22:35:00 46100	TRX TGT#2 SV#3: 90.00, 0.00 OM=270.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 90 0 300	LVLH P#100 P# 0 Y# 90	-ZLV RVVV
2 1-01:30:20 46120	MNVP P#192.00 P# 61.70 Y# 17.20	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 90 0 275		AFARIAT DEPLOY
3 1-02:20:20 36102	MNVP P#270.00 P#150.00 Y#315.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 146 0 126		SEP BLAN
4 1-02:41:20 42120	TRX TGT#2 SV#3: 90.00, 0.00 OM=180.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 90 0 0	LVLH P#100 P# 0 Y# 0	RAILCAD VIEWING
5 1-02:52:20 03106150	TRX TGT#2 SV#3: 253.00, 0.00 OM# 9.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 107 0 177	LVLH P# 0 P# 17 Y# 7	WINDOW PROTECT
6 1-03:00:20	CANCEL	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 122 0 157	INRTL P#272 P#237 Y#320	INRTL HOLD FOR P#M
7 1-03:17:00 27147	TRX TGT#2 SV#3: 90.00, 0.00 OM# 0.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 90 0 0	LVLH P# 0 P#100 Y# 0	-ZLV RVVV
8 1-03:17:10 03109125	MNVP P#332.00 P#151.00 Y# 43.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 00 0 120		IRU ALIGN PAIR A1
9 1-03:17:00 28210	TRX TGT#2 SV#3: 90.00, 0.00 OM#170.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 90 0 300	LVLH P#100 P# 0 Y# 90	-ZLV RVVV
10 1-21:01:40 20110	MNVP P#312.00 P#151.00 Y# 43.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 00 0 120		IRU ALIGN PAIR A1
11 1-21:03:40 43100	TRX TGT#2 SV#3: 90.00, 0.00 OM#270.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 90 0 300	LVLH P#100 P# 0 Y# 90	-ZLV RVVV
12 1-23:07:10 17100	MNVP P#200.00 P# 07.00 Y# 19.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 90 0 265		TELSTAR DEPLOY

ALL ATTITUDES IN DEGR OF 1950+00

CAF 51-6 FIG 4

Attitude Database

REV	MINV OPTEON	BAF	E-S	PERAFPS	EVENT	
1	23:50:10 59:45 MNVF R+281.00 P+100.00 Y+321.00	A1 AUTO VERN	BSC 0.200 SS AT 1.00 SS ST 0.02	SUN 0 133 0 137		SEP BURN
2	00:05:10 00:13 TFA TGT=2 BV=3: 50.00, 0.00 CM=100.00	A1 AUTO VERN	BSC 0.200 SS AT 1.00 SS ST 0.02	EARTH 0 90 0 0	LVLM P+100 P+ 0 V+ 0	PAILOAD VIEWING
3	00:16:10 23:00 TFA TGT=2 BV=5: (243.00, 31.00) CM= 10.00	A1 AUTO VERN	BSC 0.200 SS AT 1.00 SS ST 0.02	EARTH 0 113 0 145	LVLM P+ 20 P+ 27 V+ 31	WINDOW PROTECT
4	00:32:10 CANCEL	A1 AUTO VERN	BSC 0.200 SS AT 1.00 SS ST 0.02	SUN 0 128 0 171	INRFL P+310 P+ 9 V+314	ENRFL HOLD PCR PFM
5	00:42:10 51:25 TFA TGT=2 BV=3: 90.00, 0.00 CM= 0.00	A1 AUTO VERN	BSC 0.200 SS AT 1.00 SS ST 0.02	EARTH 0 90 0 0	LVLM P+ 0 P+100 V+ 0	+2LM HOLD
6	02:10:00 CANCEL			SUN 0 103 0 332	INRFL P+ 30 P+102 V+354	E PERICENT STARTLE +BTO 300
7	02:30:00 44:00 TFA TGT=2 BV=2: 110.00, 0.00 CM= 0.00			EARTH 0 100 0 0	LVLM P+ 0 P+ 30 V+ 0	PHANTOM STATION KEEPING
8	03:10:00 CANCEL			SUN 0 76 0 322	INRFL P+101 P+147 V+ 32	END STATION KEEPING
9	03:18:00 30:00 TFA TGT=2 BV=3: 90.00, 0.00 CM=110.00			EARTH 0 90 0 0	LVLM P+100 P+ 0 V+ 0	CEL POWER TEST
10	03:30:00 CANCEL			SUN 0 104 0 30	INRFL P+ 70 P+324 V+310	END CEL POWER TEST
11	03:40:00 04:05:00 TFA TGT=2 BV=5: 210.00, 0.00 CM= 0.00			EARTH 0 135 0 100	LVLM P+ 0 P+ 0 V+ 0	LIMIT CYCLE VERN
12	04:10:00 CANCEL			SUN 0 81 0 117	INRFL P+123 P+101 V+ 72	END VERM LMT CIC TEST

***ALL ATTITUDES IN PEAK OF 1000000

CAF 51-5 P10A

Altitude Sighting

REV	MNR OPTION	DAP	E-S	REMARKS	EVENT	
1 2 05:05:00 08:29	TRK TGT#2 SV#3: 90.00, 0.00 CM# 0.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	EARTH 0 90 0 0	LVLN P# 0 P# 100 V# 0	-ZLV -MOV
2 2 06:54:00	TRK TGT#3 SV#3: 0.00, 277.75 CM# 270.10	B AUTO NORM	BSC 0.500 BB AT 1.00 BB AT 0.20			HETE
3 2 07:25:00	MNR P#312.00 P#151.00 V# 43.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	SUN 0 40 0 119		TRU ALIGN PAIR A1
4 2 08:18:00 24:15	TRK TGT#2 SV#3: 90.00, 0.00 CM# 270.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	EARTH 0 90 0 300	LVLN P# 100 P# 0 V# 90	-ZLV -MOV
5 2 20:10:32 24:50	MNR P#312.00 P#151.00 V# 43.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	SUN 0 40 0 119		TRU ALIGN PAIR A1
6 2 20:30:32 41:57	TRK TGT#2 SV#3: 90.00, 0.00 CM# 270.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	EARTH 0 90 0 300	LVLN P# 100 P# 0 V# 90	-ZLV -MOV
7 3 01:40:10 55:10	MNR P#172.00 P#244.04 V# 22.95	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	SUN 0 59 0 206		SPARTAN REF 1
8 3 01:39:10 42:43	MNR P#280.20 P#149.99 V# 23.70	A12 AUTO NORM	BSC 0.200 BB AT 2.00 BB AT 0.20	SUN 0 24 0 149		REF 2
9 3 01:54:10 57:10	TRK TGT#1 SV#3: 90.00, 0.00 CM# 100.00	A12 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02			SPARTAN TR 1
10 3 01:23:10 32:55	TRK TGT#1 SV#3: 67.70, 159.00 CM# 100.00	A12 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02			SPARTAN TR 2
11 3 01:51:07 51:39	MNR P#312.00 P#151.00 V# 43.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	SUN 0 40 0 119		TRU ALIGN PAIR A1
12 3 07:14:07 25:26	TRK TGT#2 SV#3: 90.00, 0.00 CM# 270.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB AT 0.02	EARTH 0 90 0 300	LVLN P# 100 P# 0 V# 90	-ZLV -MOV

E-S

CAF 514 P10

SMALL ALTITUDES IN PEAK OF 195000

Altitude Binding

REV	MNVR OPTION	DRP	E-S	REMARKS	EVENT	
1 3 19:09:43 24104	MNVR R+322.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 65 0 118		IMU ALIGN PAIR A1
2 3 19:29:43 41159	TRA TGT#2 SVA3: 90.00, 0.00 GM+160.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH 0 90 0 0	LVLN P+000 P+ 0 Y+ 0	-2LV +IMV
3 4 05:05:00 19:58	MNVR R+250.00 P+324.00 Y+322.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 103 0 217		MC-1
4 4-05:25:00 31:30	TRA TGT#2 SVA3: 90.00, 0.00 GM+270.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH 0 90 0 300	LVLN P+100 P+ 0 Y+ 90	-2LV +IMV
5 4 07:15:29 33:42	MNVR R+322.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 64 0 110		IMU ALIGN PAIR A1
6 4 07:45:29 57:03	TRA TGT#2 SVA3: 90.00, 0.00 GM+270.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH 0 90 0 0	LVLN P+100 P+ 0 Y+ 90	-2LV +IMV
7 4 19:49:00 55:07	MNVR R+322.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 64 0 110		IMU ALIGN PAIR A1
8 4 20:15:00 33:13	MNVR R+240.00 P+324.00 Y+324.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 103 0 219		MC-2
9 4 20:41:00 45:22	TRA TGT#1 SVA3: 90.00, 0.00 GM+ 0.00	B1 AUTO NORM	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH 0 0 0 0	LVLN P+ 0 P+270 Y+ 0	SPARTAN TR
10 4 23:24:00 39:02	MNVR R+250.00 P+153.00 Y+150.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 104 0 141		PI
11 4 23:47:00 5 00:01:50	TRA TGT#1 SVA3: 90.00, 0.00 GM+ 0.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 1.02	EARTH 0 0 0 0	LVLN P+ 0 P+270 Y+ 0	SPARTAN TR
12 5 01:01:00 20:03	TRA TGT#2 SVA3: 90.00, 0.00 GM+ 0.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH 0 100 0 0	LVLN P+ 0 P+ 90 Y+ 0	VEAR

Attitude Timelines

NET	MNVR OPTICH	BNP	S-B	PHASES	EVENT
5 02135100 42:30	TRK TGT#2 SV#3: 90.00, 0.00 CM# 0.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH LVLH P# 0 P# 90 P#100 Y# 0	-2LV -VVV
5 04124122 29:36	MNVR P#240.00 P# 0.20 Y# 47.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 44 0 243	CREDIT ADJUST
5 04132120 05:05:30	MNVR P#312.00 P#150.00 Y# 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 C4 0 117	IMU ALIGN PAIR A1
5 05117100	TRK TGT#3 SV#5: 0.00, 277.75 CM#270.10	A1 AUTO NORM	BSC 0.200 SB AT 1.00 SB RT 0.20		HFTE
5 05137106	TRK TGT#2 SV#3: 90.00, 0.00 CM#100.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH LVLH P#100 P# 0 Y# 0	-2LV -VVV
5 17101100 13:14	MNVR P#312.00 P#150.00 Y# 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 03 0 117	IMU ALIGN PAIR A1
5 17120100 32:47	TRK TGT#2 SV#3: 90.00, 0.00 CM#100.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH LVLH P#100 P# 0 Y# 0	-2LV -VVV
5 22105100	FREE DRIFT	A3 MAN NORM	BSC 0.200 SB AT 5.00 SB RT 0.20		FCB HOT FIRE
5 22120100	TRK TGT#2 SV#3: 90.00, 0.00 CM#100.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH LVLH P#100 P# 0 Y# 0	-2LV -VVV
5 23137100 29:50	MNVR P#270.00 P#320.00 Y# 0.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 00 0 190	CREW CONFERENCE
6 01131100	CANCEL		CEN 0 00 0 190	INTRA P#202 P#223 Y# 0	EXPERIMENT STARTUP (870 900)
6 02140100 53:53	TRK TGT#2 SV#3: 90.00, 0.00 CM#100.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH LVLH P#100 P# 0 Y# 0	-2LV -VVV

Altitude Scheduling

REF	MNVR OPTION	MAP	E/S	REMARKS	EVENT	
1 6-05110117 22119	MNVR R+312.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 63 0 117		IMU ALIGN PAIR A1
2 6-05130117 41147	TRK TGT=2 SV=34 90.00, 0.00 DM=100.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	EARTH 0 50 0 0	L/LM R+100 P+ 0 Y+ 0	-ZLV MNVR
3 6-17119116 31128	MNVR R+312.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 63 0 110		IMU ALIGN PAIR A1
4 6-17133116 48157	TRK TGT=4 SV=54104.00, 0.00 DM= 90.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 170 0 100	ENATL R+200 P+ 91 Y+207	-XSI ATT
5 6-20119118 24156	MNVR R+ 12.00 P+142.00 Y+ 30.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB RT 0.02	SUN 0 74 0 53		IMU ALIGN
6 6-20137118 48123	MNVR R+127.00 P+196.00 Y+332.00	B1 AUTO NORM	BSC 0.500 SB AT 3.00 SB RT 0.20	SUN 0 111 0 93		IMU VERIFY
7 6-21100118 05153	MNVR R+215.00 P+ 33.00 Y+ 61.00	* AUTO *	BSC 0.500 SB AT 3.00 SB RT 0.20	SUN 0 45 0 224		MNVR TO RECRUIT ATT

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FINAL

Flight Data File Crew Activity Plan

STS 51-G

Mission Operations Directorate
Operations Division

Final
May 1, 1985

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MORELOS Deploy	14:36	Wed	Jun 12
APABSAT Deploy	08:54	Thu	Jun 13
TELSTAR Deploy	06:18	Fri	Jun 14
SPARTAN Deploy	10:59	Sat	Jun 15
SPARTAN Rendezvous	07:54	Mon	Jun 17
Crew Conference	06:16	Tue	Jun 18
KSC Landing	06:47	Wed	Jun 19

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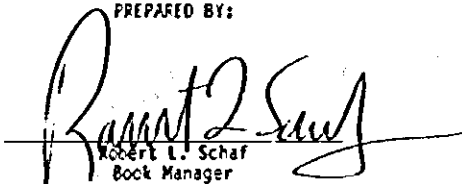
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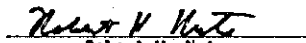
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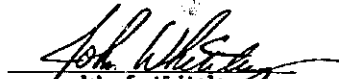
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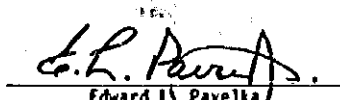
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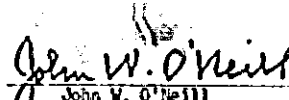

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2-14.....	CAP/51-G/FIN	6-2.....	CAP/51-G/FIN
2-15.....	CAP/51-G/FIN	6-3.....	CAP/51-G/FIN
2-16.....	CAP/51-G/FIN	6-4.....	CAP/51-G/FIN
3-1.....	CAP/51-G/FIN	6-5.....	CAP/51-G/FIN
3-2.....	CAP/51-G/FIN	6-6.....	CAP/51-G/FIN
3-3.....	CAP/51-G/FIN	6-7.....	CAP/51-G/FIN
3-4.....	CAP/51-G/FIN	6-8.....	CAP/51-G/FIN
3-5.....	CAP/51-G/FIN		
3-6.....	CAP/51-G/FIN		
3-7.....	CAP/51-G/FIN		
3-8.....	CAP/51-G/FIN		
3-9.....	CAP/51-G/FIN		
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3-15.....	CAP/51-G/FIN		
3-16.....	CAP/51-G/FIN		
3-17.....	CAP/51-G/FIN		
3-18.....	CAP/51-G/FIN		
3-19.....	CAP/51-G/FIN		
3-20.....	CAP/51-G/FIN		
3-21.....	CAP/51-G/FIN		
3-22.....	CAP/51-G/FIN		
3-23.....	CAP/51-G/FIN		

CAP/51-G/FIN

STS 51-G CAP CUE CARDS

OAP Book Front Cover.....	5-4	CAP/51-G/O/BAS
UNIV FIG (Back of OAP Book Front Cover).....	5-4	CAP/51-G/O/FIN
OAP A TOC.....	5-5	CAP/51-G/O/FIN
OAP A1.....	5-5	CAP/51-G/O/BAS
A1.....	5-5	CAP/51-G/O/BAS
OAP A2.....	5-6	CAP/51-G/O/BAS
A2.....	5-6	CAP/51-G/O/BAS
OAP A3.....	5-6	CAP/51-G/O/BAS
A3.....	5-6	CAP/51-G/O/BAS
OAP A4.....	5-7	CAP/51-G/O/BAS
A4.....	5-7	CAP/51-G/O/BAS
OAP A5.....	5-7	CAP/51-G/O/BAS
A5.....	5-7	CAP/51-G/O/BAS
OAP A6.....	5-8	CAP/51-G/O/BAS
A6.....	5-8	CAP/51-G/O/BAS
OAP A7.....	5-8	CAP/51-G/O/BAS
A7.....	5-8	CAP/51-G/O/BAS
OAP A9.....	5-9	CAP/51-G/O/BAS
A9.....	5-9	CAP/51-G/O/BAS
OAP A10.....	5-9	CAP/51-G/O/BAS
A10.....	5-9	CAP/51-G/O/BAS
OAP A11.....	5-10	CAP/51-G/O/BAS
A11.....	5-10	CAP/51-G/O/FIN
OAP A12.....	5-10	CAP/51-G/O/FIN
A12.....	5-10	CAP/51-G/O/FIN
(Blank).....	5-11	CAP/51-G/O/FIN
OAP B TOC.....	5-11	CAP/51-G/O/FIN
OAP B1.....	5-11	CAP/51-G/O/BAS
B1.....	5-11	CAP/51-G/O/BAS
OAP B2.....	5-12	CAP/51-G/O/BAS
B2.....	5-12	CAP/51-G/O/BAS
OAP B3.....	5-12	CAP/51-G/O/BAS
B3.....	5-12	CAP/51-G/O/BAS
OAP B4.....	5-13	CAP/51-G/O/BAS
B4.....	5-13	CAP/51-G/O/BAS
OAP B5.....	5-13	CAP/51-G/O/BAS
B5.....	5-13	CAP/51-G/O/BAS
CAP B6.....	5-14	CAP/51-G/O/BAS
B6.....	5-14	CAP/51-G/O/BAS
OAP B7.....	5-14	CAP/51-G/O/BAS
B7.....	5-14	CAP/51-G/O/FIN
OAP B3.....	5-15	CAP/51-G/O/BAS
B8.....	5-15	CAP/51-G/O/BAS
(Blank).....	5-15	CAP/51-G/O/BAS
OAP Book (Back Cover).....	5-16	CAP/51-G/O/BAS

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INTRODUCTION

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

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

The operational flight profile (Cycle 3 trajectory data) used for this Crew Activity Plan is for a launch date of June 12, 1965, at 11:31 GMT. Orbiter inertial attitudes are expressed relative to the Mean of 1950 (M50) reference frame.

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51-G
OVERVIEW

OVERVIEW

PATIENT		SEX		AGE		POSITION		CYCLE		PHASE		DATE		05/20/68	
FD 1	SLEEP	POST SLEEP	IMU	FEE	H2O DUMP	HEAL	APC	FEE	IMU	PPE SLEEP	PPE SLEEP	IMU	PPE SLEEP	IMU	SLEEP
NOTES: 0 DTD 22 SUPPLY H2O DUMPS															
FD 2	SLEEP	POST SLEEP	IMU	FEE	H2O DUMP	HEAL	APC	FEE	IMU	PPE SLEEP	PPE SLEEP	IMU	PPE SLEEP	IMU	SLEEP
NOTES: 0 DTD 22 SUPPLY H2O DUMPS															
FD 3	SLEEP	POST SLEEP	IMU	FEE	H2O DUMP	HEAL	APC	FEE	IMU	PPE SLEEP	PPE SLEEP	IMU	PPE SLEEP	IMU	SLEEP
NOTES: 0 DTD 22 SUPPLY H2O DUMPS															
FD 4	SLEEP	POST SLEEP	IMU	POST SLEEP	FEE	H2O DUMP	HEAL	APC	FEE	IMU	PPE SLEEP	PPE SLEEP	IMU	PPE SLEEP	SLEEP
NOTES: 0 DTD 22 SUPPLY H2O DUMPS															
FD 5	SLEEP	POST SLEEP	IMU	POST SLEEP	FEE	H2O DUMP	HEAL	APC	FEE	IMU	PPE SLEEP	PPE SLEEP	IMU	PPE SLEEP	SLEEP
NOTES: 0 DTD 22 SUPPLY H2O DUMPS															

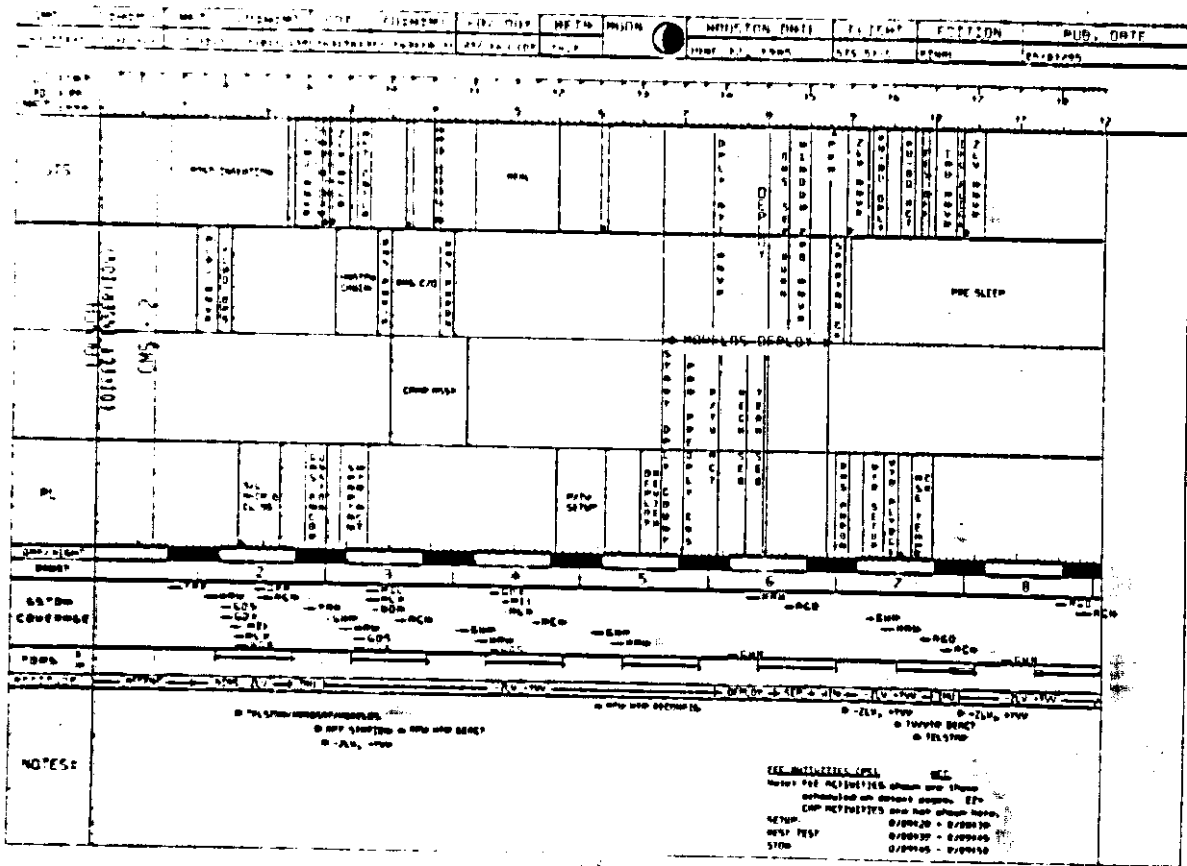
ALTIMETER			SPTS NO 6			SHELLING			PUB. DATE		
FC 6	SLEEP	POST SLEEP	100		WINDSUCK				POST SLEEP		SLEEP
NOTES: 1. DTD FOR ON-SHEET FROM SHEETING											
FC 7	SLEEP	POST SLEEP	100		POST SLEEP	POST SLEEP			POST SLEEP		SLEEP
NOTES: 1. DTD FOR ON-SHEET FROM SHEETING											
FC 8	SLEEP	POST SLEEP	100		POST SLEEP						
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SUMMARY
TIMELINE

SUMMARY TIMELINE

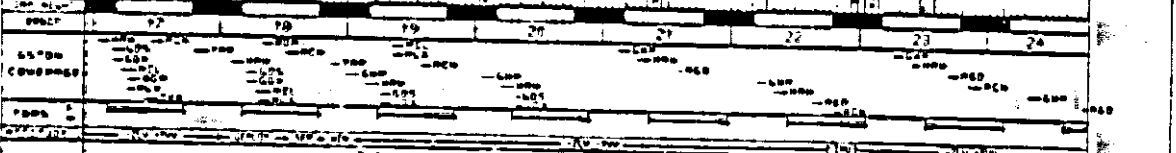
SUMMARY
TIMELINE



COMP	PROGRAM	REF	CDT	DTY	REF	MON	MISSION DATE	FLIGHT	EDITION	PUB. DATE	
CDT	100	10	20	20	22	25	29	31	32	33	
REF	10	10	10	10	10	10	10	10	10	10	
CDT	WAP								Z	Z	
PL											
CDT	9	10	11	12	13	14	15	16			
SYSTEM	100	100	100	100	100	100	100	100	100	100	
CONSUMED	100	100	100	100	100	100	100	100	100	100	
FORMS	100	100	100	100	100	100	100	100	100	100	
NOTES:											

UNIT		CLASSIFICATION		ITEMS		ITEMS		HOUSING DATE	ITEMS	ITEMS	ITEMS

12											
11											
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9											
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7											
6											
5											
4											
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1											
						SUPPLY AND BUMP				SLEEP	
						NO SUPPLY BUMP		OFF SUP		PRE SLEEP	
						PL					
								PRE OPS (PREP)		PRE OPS (OPER)	



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 ○ 20.00 - 1000
 ○ 20.00 - 1000
 ○ 20.00 - 1000

NOTES:
 ALL MEASUREMENTS ARE
 IN METERS
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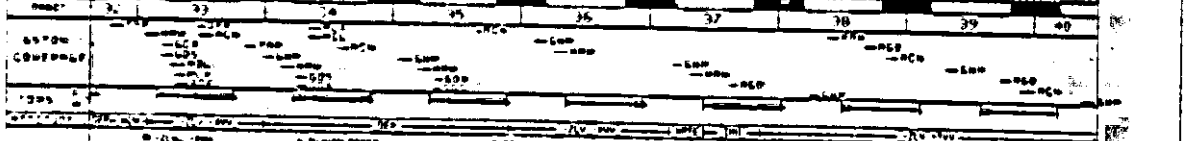
SEARCHED	INDEXED	SERIALIZED	FILED

COMP (DIMENS)	MT (DIMENS)	OFF (DIMENS)	VDP DDY	HE TA	MOON	MOONSTON DATE	FLIGHT	EDITION	PUB. DATE	
<div style="display: flex; justify-content: space-between;"> COP Date 20 21 22 23 24 25 26 27 28 29 30 31 32 MT Date 20 21 22 23 24 25 26 27 28 29 30 31 32 </div>										
STS	SLEEP									
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NOTES:										

TEL: 7267-214-7700

STATION	DATE	TIME	PERSONS	ETA/DEPT	REF ID	UNITS	MOBILIZATION DATE	STATUS	INITIALS	REMARKS
	JUN 20 1965	07:00								

01	02	03	04	05	06	07	08	09	10	11	12
ON		ON									SLEEP
				ON DUMP				ON SLEEP			
				SUPPLY							
					FREE OPS (MESH)	FREE OPS (MESH)					



NOTES:

- ALL PERSONNEL...
- ...
- ...

DATE	TIME	LOCATION	TYPE	DESCRIPTION	WPT	DTG	REF ID	MISSION	MISSION TIME	STATUS	OPERATOR	REMARKS
									JUN 25, 1968			

01	02	03	04	05	06	07	08	09	10	11	12
WAKE UP											SLEEP

PL

WAKE UP

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

01 02 03 04 05 06 07 08 09 10 11 12

NOTES:

TELECOMMUNICATIONS
 01 02 03 04 05 06 07 08 09 10 11 12
 01 02 03 04 05 06 07 08 09 10 11 12
 01 02 03 04 05 06 07 08 09 10 11 12

COMP	COMPONENT	NET	COMPONENT	CDY	COMPONENT	REP. THIS	NO. OF	MOON	MISSION DATE	FLIGHT	EDITION	PUB. DATE	
									1967 04 0005	575 57-5	STW	05/28/75	
<p>CDY 0000 00 00 00 NET 0000</p>													
STS	SLEEP										H2O DUMP SURVEY	H2O DUMP SURVEY	
											WASTE H2O DUMP	SUPPLY H2O DUMP	
											PLD SW		
PL													
<p>0000 00 00 00 00 00 00 00 00 00 00 00 00</p> <p>COVERGE</p> <p>FOOT</p>													
NOTES:	<p>001 0000 WASTE H2O SUPPLY WASTE DUMP 002 0000 WASTE H2O SUPPLY WASTE DUMP</p>												

GMT (DIMIN)	MET (DIMIN)	CHI (DIMIN)	PD/DOY	HI IN	MOON	HOUSTON DATE	FLIGHT	EDITION	PUR. DATE
100123127	085121007	000000100	06/160 (M)	46.3		JUNE 17, 1965	STS 51-C	01000	050201005
COT 1100 PM 1 00 MFT 1005									
STS	SLEEP								
PL									
DAY/night									
BOOST	B7	B8	B9	B0	B1	B2	B3	B4	B5
ESTIM COVERAGE									
TOPS									
NOTES:									

0 - ZLU, 0000

0 DTD 0125 00011 AND SUPPLY WATER DUMP
A 0011 010 001

0 - ZLU, 0000

0 0000 0000

0 TANK 1000

0 DTD 0700 00-00011 10000 000110000

UNIT	TYPE	CLASS	TYPE (CLASS)	ED/ DIV	HLU	MISSION	MISSION DATE	ACT. NO.	POSITION	GRADE	DATE
SPS	REAL	DES DWP	DESIGNER						SLEEP		
									WE SLEEP		
			CASH STN								
PL											
DAY/IGN	95	96	97	98	99	100	101	102	103		
ESTON	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN
COVERAGE	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN
FOPL	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN
ACTIVITY	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN	RCN
NOTES:											

NO.	NAME	AGE	SEX	REL.	HT.	WT.	HAIR	EYES	COMPL.	REMARKS
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100										



GMT	(DINIM)	MET	(DINIM)	CDI	(DINIM)	FDZ	DDZ	HI	TR	MILIN	ADDITION DATE	FLIGHT	EJECTION	PUR. DATE
CDI 1160											JUNE 10, 1965	S/S S.C.	P100	05/01/65
MET 1200														
SIS	SLEEP			POST SLEEP		DEBIT APP		DEBIT BURN						
PL														
DRY (DINIM)	103	104	105	106	107	108	109	110	111					
ESTDn COVERAGE														
*DPS														
NOTES	<p style="text-align: center;">© SPARTAN (DINIM) LOW © NORCOS/ANALYST/ESTDn</p>													

DETAILED TIMELINE

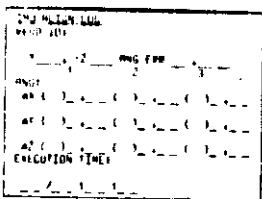
DETAILED
TIMELINE

SIS 51-R (TU 11)

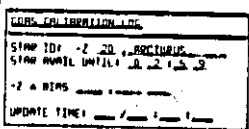
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81100
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4100
3100
2100
1100
100

Activities scheduled prior to 0001:30 MET are in the PREINT and POST INSPECTION CHEKLISTS

Orbits activities when entering the OMF in Phase 1 (V, XV)



- EX. GMP ACTIVITIES FOR TDONE:**
- Do all earliest maintenance!
 - ENS (2) CORRECT (OVB OPS, GDS)**
Landing Ops 1 (4 Min) (2 Can)
 - LAMP & LAMP SUPPLY**
(OVB OPS, GPa) (10 Min)
 - WELL PWR (COP CORV)** (20 Min)
 - PFL SETUP/ACTIVATION (PS)**
(PL OPS, PALLING) (10 Min)
 - EEB/ACTIVATION (PS)**
(PL OPS, LALING) (10 to 15 Min)
 - Perform in R,M, (non-interference)
 - LEE DISCHG (PS)**
(PL OPS, LEE DISCH) (5 Min)
 - LPL OPS (PS)**
(PL OPS, COL) (20 Min)
 - Perform R,M, and P,M, (non-interference)



819 WCOM WAP-OFF Mount CONVS-RTT
 HAWK SHU PLUG RTT
 STAG 000 (M)
 R/AUTOVERN (M) (M) at SS
 SHU PLUG (OVB OPS)
 WAP-OFF (OVB OPS)
 HAWK SHU PLUG RTT
 (M) (M) D=278
 R/AUTOVERN (M) (M)
 Change OMP B to 01
 REF CONTROLLER C/D
 (OVB OPS, WND)

822 WAP STAG VENT RTR DEACT
 RPL ENTFR (three) - OFF

823 ON ROV PUP
 WAP FUEL PUMPPV COOL R-OFF
 ENTFR WAP (three) - OFF

UNION CABIN EDUP (M)

RMS POWERUP (M) (PS, PNRU)
 RMS CHECKLE (M) (PS, L/C)
 (2 Can)

RMS PUMPDOWN (M) (PS, PNRU)
 Hotel Do not stop RIMS

RZM CHECKM ASSEMBLY (PHOTO-TV, EXAMINER)

GAS ENDR INSTN/SETUP (PL OPS, WSD)

SPRINKL Stems 1 & 2 (PL OPS, SPINKRL)

- WELLING**
 OFFLINE
 NORMALIZATION
- WELLING**
 START WELTN
 OPL COMP
 CYCLE
- WELL ONLY**
 WELTN OPL
 COMP
 OPL
 TO MCC
 CHECK/OVER
 GO FOR OPL
 COOL OPL
- TO (M) (M)**
 (OVB OPL-PLD)
WELL ONLY
 OPL UPDATES
 DUE FROM
 POLC

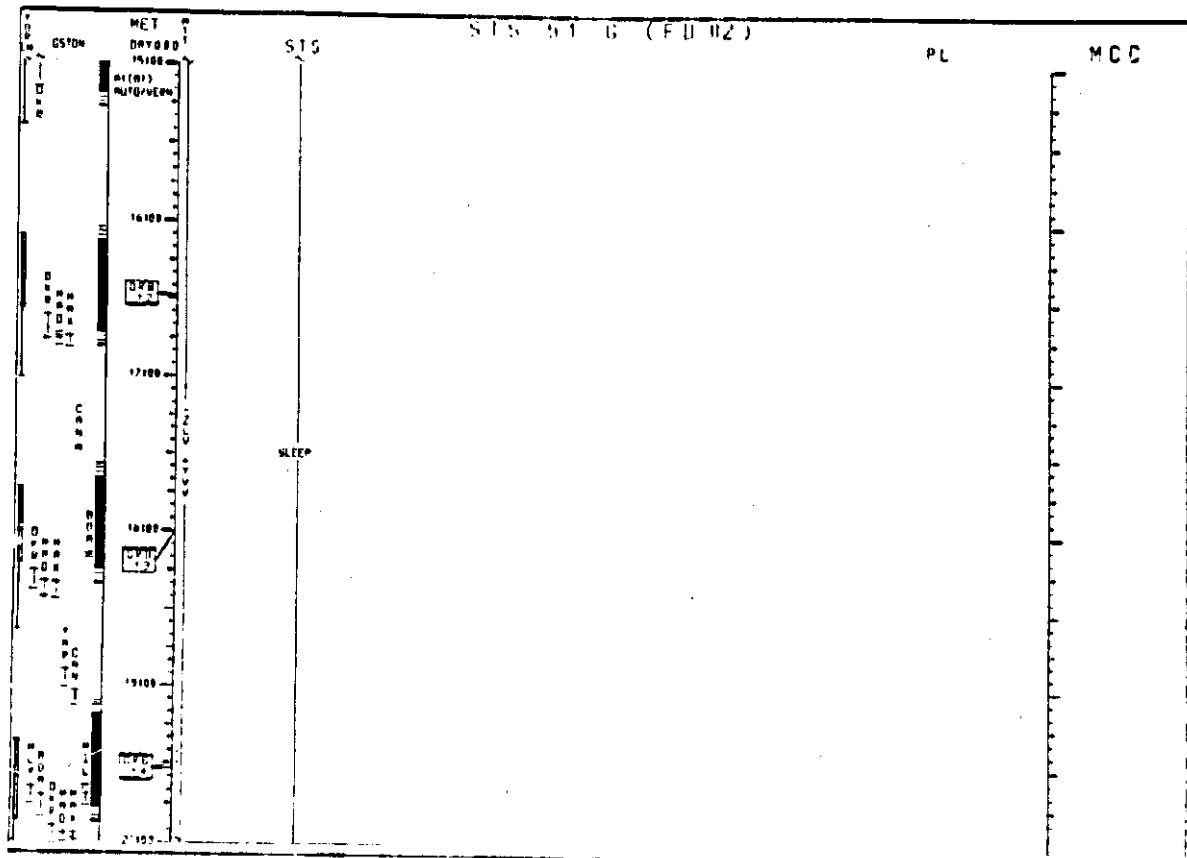
WAC 04 1500 011
TAD 0400 011
HAND/ALARM IN 1000 at 05
ZNR 1500 011 (001 001)
WAC 1500 011
TO : BUZZ 01100
HAND/ALARM IN 100 011

SEE 1500 011
1000 011 (001 001)

NOTE: Do not perform
COMPLY with 1000

SLEEP

IR-01-01	
PLM ID	
1	2
3	4
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95	96
97	98
99	100



NTS 53-6 (FD 02)

PL

MCC

MET

09400

09800

10200

10600

11000

11400

11800

12200

13000

13400

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14200

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31000

31400

31800

32200

32600

33000

STS
SUPPLY WATER DUMP (100 OPS)
(09400, 09800)

M20 DUMP NOZZLE SURVEY
(09400 OPS, EXT. SURVEYS)

FILTER CLEANING
(100 OPS, SCHEDULED MAINTENANCE)
(7.000)

NO DUMPING
(09400 OPS, PASSENGERS)
Note: Do not allow M20

EEF SCRAM/ACTIVATION (MS)
(PL OPS, CALLED)
EEF TEST TEST OPS (MS)
(PL OPS, EEF OPS)

PHOTO SCRAM (SRT OPS-PMS)
(PHOTO-TV, P21V SCENES)

EEF SCRAM/ACTIVATION (MS)
(PL OPS, EEF OPS)

WWR INH ALIGN TEST
S140 PH10 (01)
A/R/M/D/V/E/R Intt MAN at 55
INH ALIGN S TEST (090 OPS)
WWR (09400) S140
15-2 0002 000270
A/R/M/D/V/E/R Intt 100

EEF SLEEP ACTIVITY
(090 OPS, CALLED)

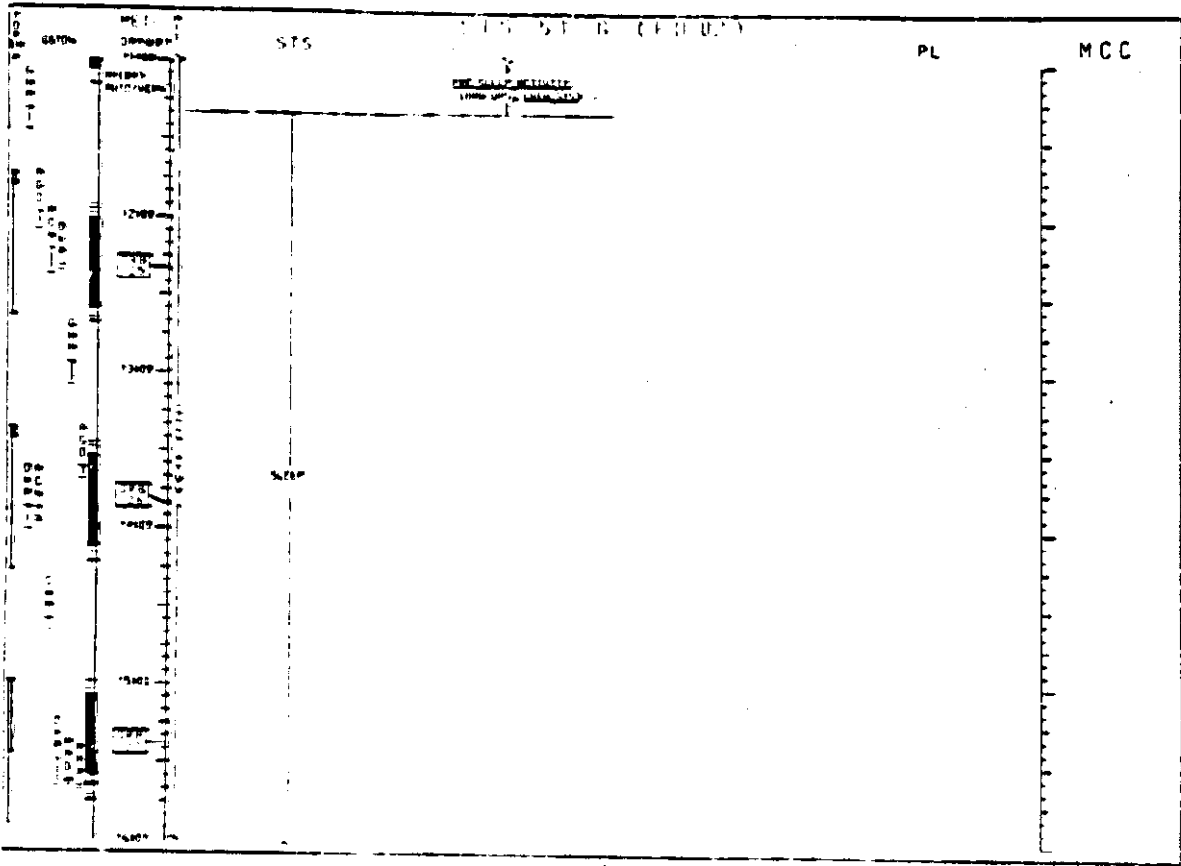
EEF SCRAM (MS)
(PL OPS, EEF S140)
SCHEDULED STEP 2
(PL OPS, SCHEDULE)

Note: Do not perform
SUPPLY M20 DUMP

INH ALIGN TEST
PLUG 104

-Y _____ ANG EPR _____
ANG:
AZ () () () () () ()
AZ () () () () () ()
AZ () () () () () ()
EXECUTION TIME:

BASE Step 1
(PL OPS, BASE)



PL

MCC



SPS

SLEEP

OBLIGATION																						
HEAD 107																						
1	2																					
MCC																						
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20		
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	
EXECUTION TIME																						

PLUG SLEEP ACIDITY
(LUMP 107, UNASSIGNED)

Waste To map stations
(Supply and Dump)

CC CAR ACTIVITIES FOR NIGHT:

EXERCISE (20 MIN)

HEAT FREE (Cap Card) (30 Min)

CHARACTERIZATION OF SHS 1050 #95)
(WED. BLD. #2161) 130 MIN/3 Cap)

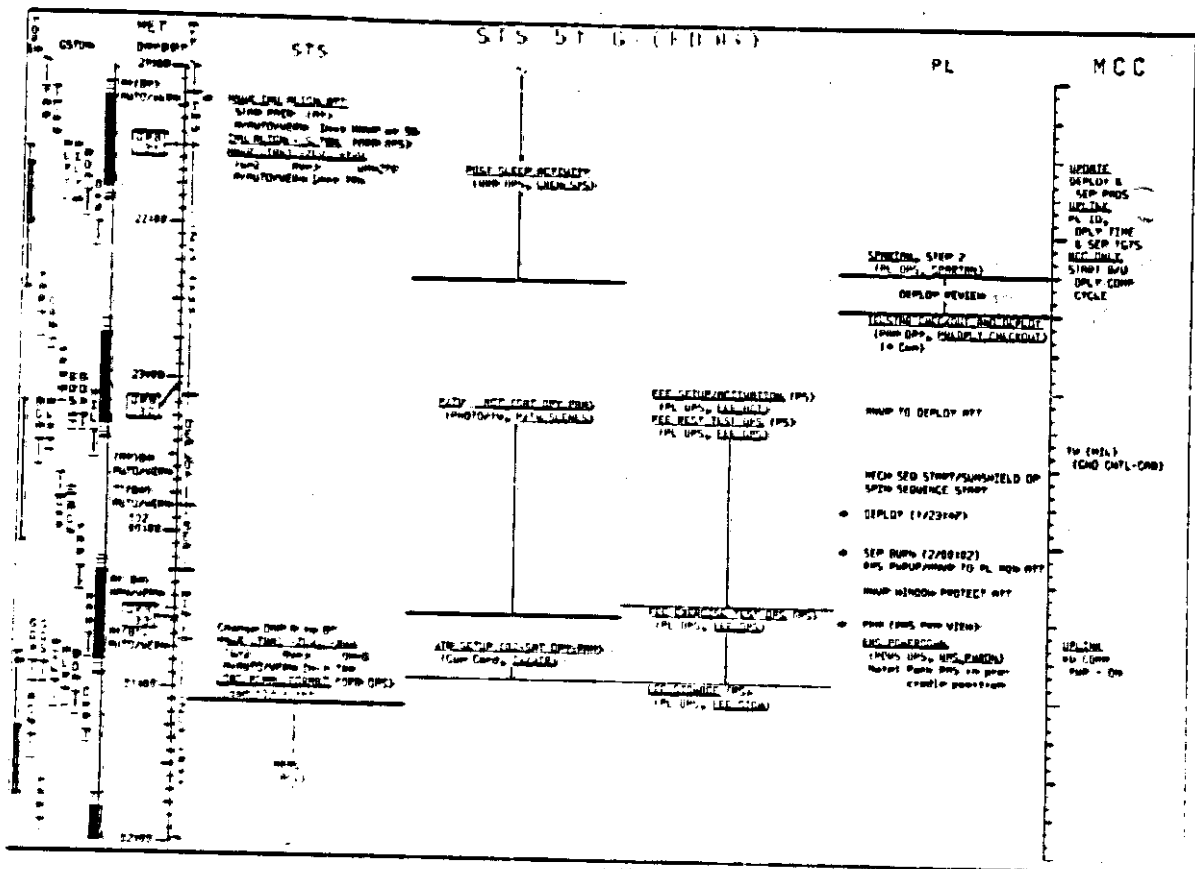
SEE DEL (PMS)
175 OPS, EXEC END (30 Min)
Perform R.M. and P.M. (Instrumentation)
PS receive P.M. only

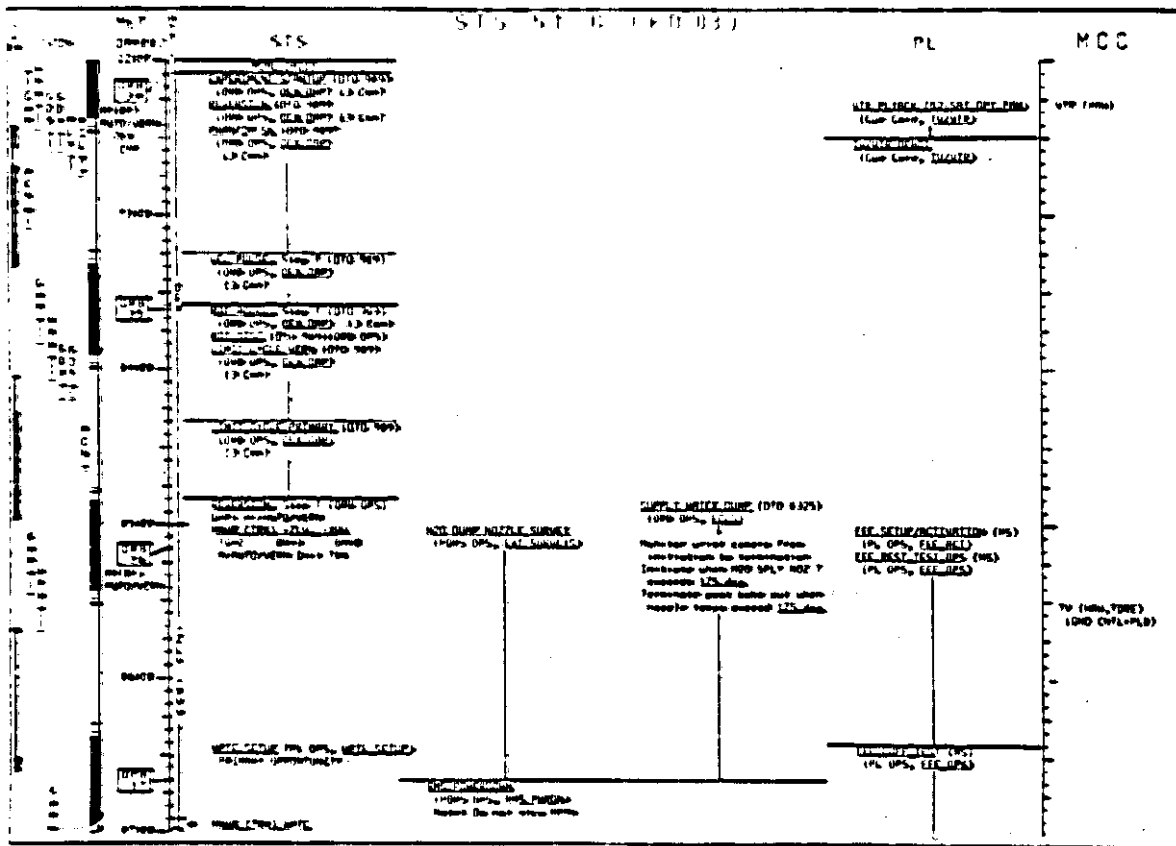
PRE-PLA TEMP CHECK
1700-1800, UN-ASSIGNED
Perform Temp. Detector

MCC ONLY
START PRELIM
ONLY COMP
CYCLE

MCC ONLY
PRELIM ONLY
COMP RESULTS
TO POCC

MCC ONLY
OPS UPDATES
DUE FROM
POCC
START FROM
ONLY COMP
CYCLE

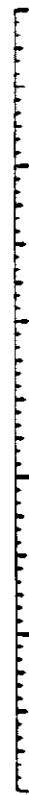
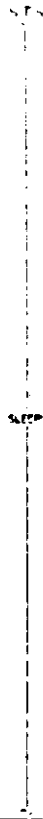
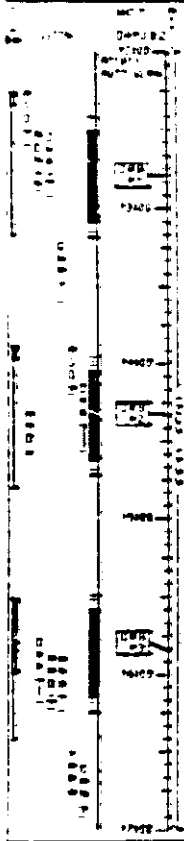




STG 51 (FQ 03)

PL

MCC



STN ST G (FD 04)

PL

MCC

PL-OPS ACTIVITIES FOR 1000H

LAUNCH (11 00/PL)

RELA. EXEC. (Com Cont) 130 Min

EXT. OPS. (PS)

1PL OPS, 2PL 130 Min

Perform P.M. and P.M. (noninterference)

PL source P.M. only

PL-OPS EXEC

PL-OPS EXEC

1-9 2-2 3-3 4-4 5-5

PL-OPS

PL () () () () ()

PL () () () () ()

PL () () () () ()

EXECUTION TIME

1 2 3

EXT. SLEEP ACTIVITY

1PL OPS, 2PL OPS

Note: Do not perform SUPPLY AND DUMP

PL-OPS ACTIVITIES

1PL OPS, 2PL OPS

1PL OPS, 2PL OPS

1PL OPS, 2PL OPS

1PL OPS, 2PL OPS

PL-OPS EXEC

1PL OPS, 2PL OPS

1PL OPS, 2PL OPS

1PL OPS, 2PL OPS

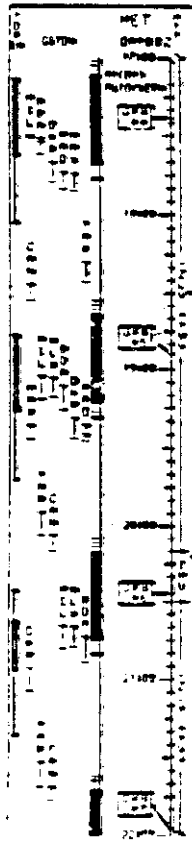
PL-OPS EXEC

1PL OPS, 2PL OPS

1PL OPS, 2PL OPS

CONTROL STEP 2

1PL OPS, 2PL OPS



PL

MCC

LAUNCH ACTIVITIES FOR MISSILE

SEQUENCE OF EVENTS

REQUIREMENTS FOR COMBAT (700 Ops)

MIN. REQUIREMENTS FOR LAUNCH

1. 100% OPS (1000 Ops) (1000 Ops)

2. 100% OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

1000 OPS (1000 Ops) (1000 Ops)

LAUNCH REQUIREMENTS

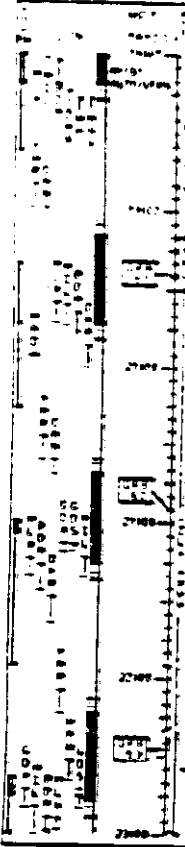
1000 OPS (1000 Ops) (1000 Ops)

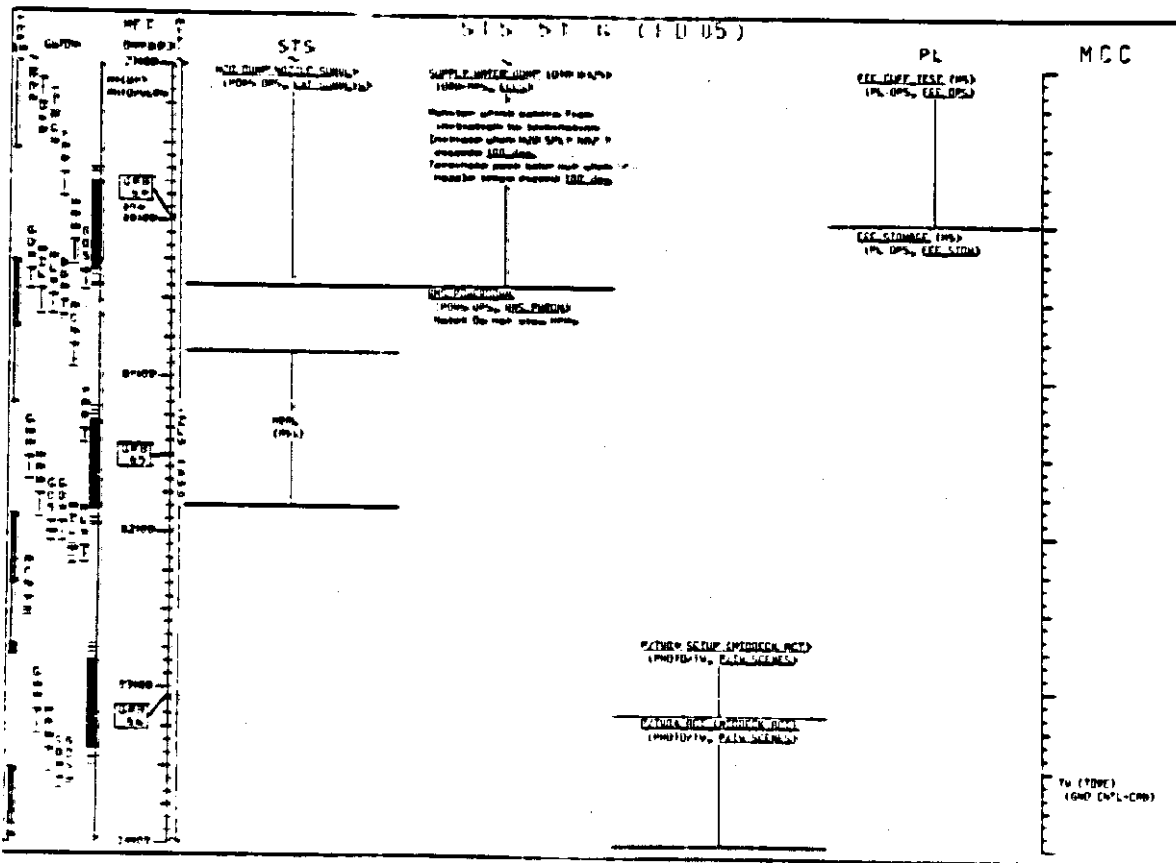
LAUNCH REQUIREMENTS

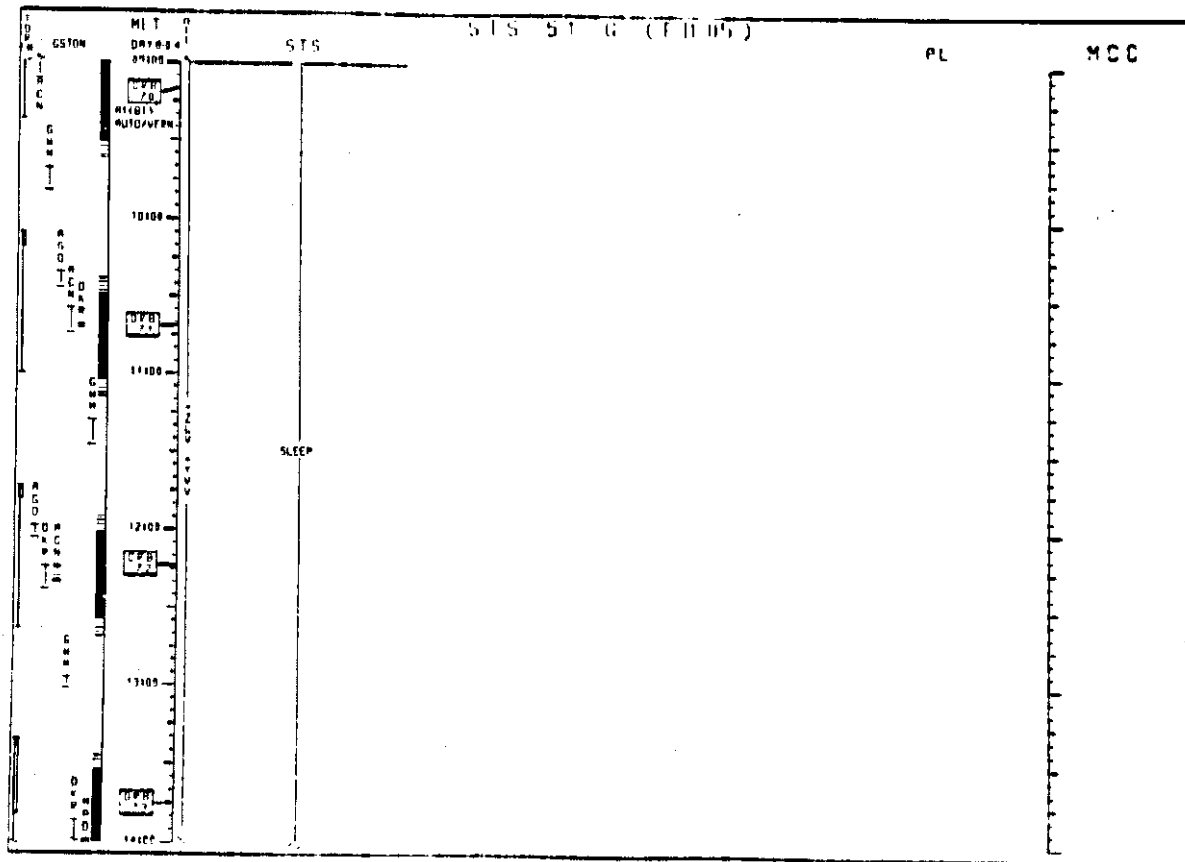
1000 OPS (1000 Ops) (1000 Ops)

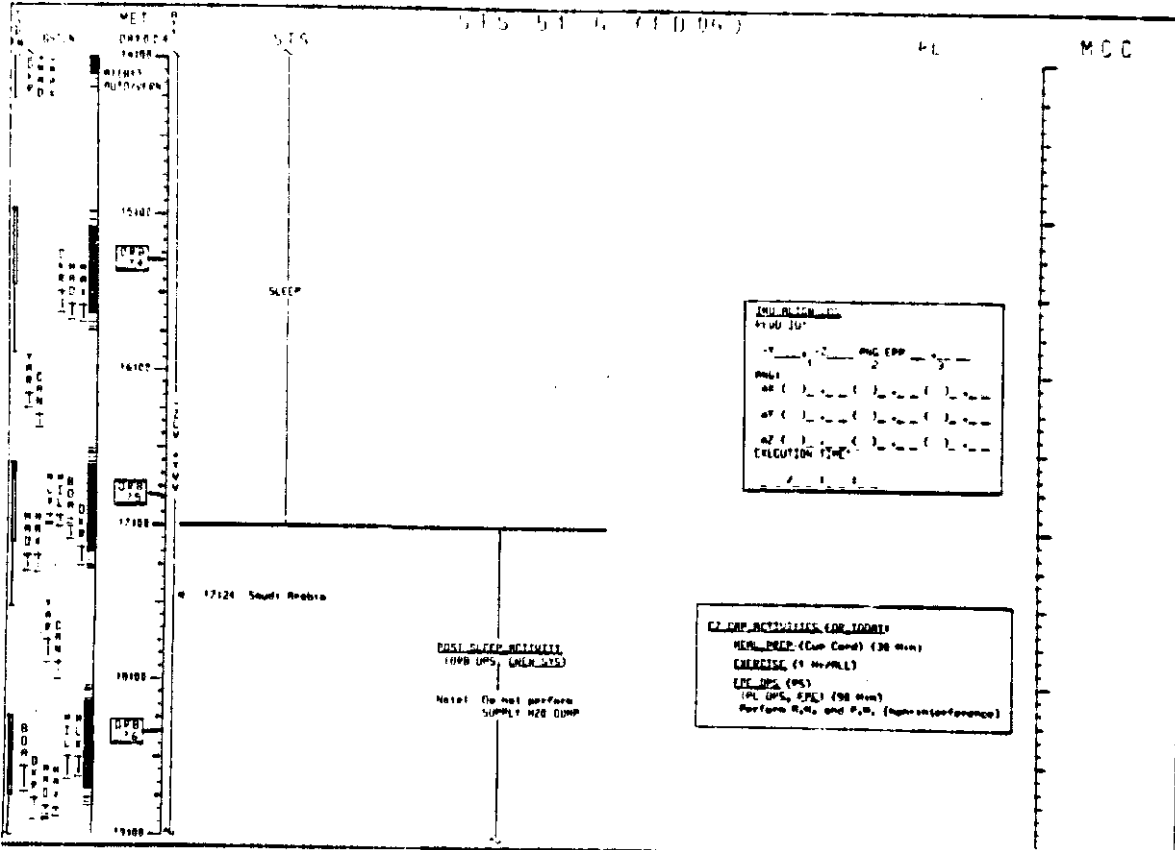
LAUNCH REQUIREMENTS

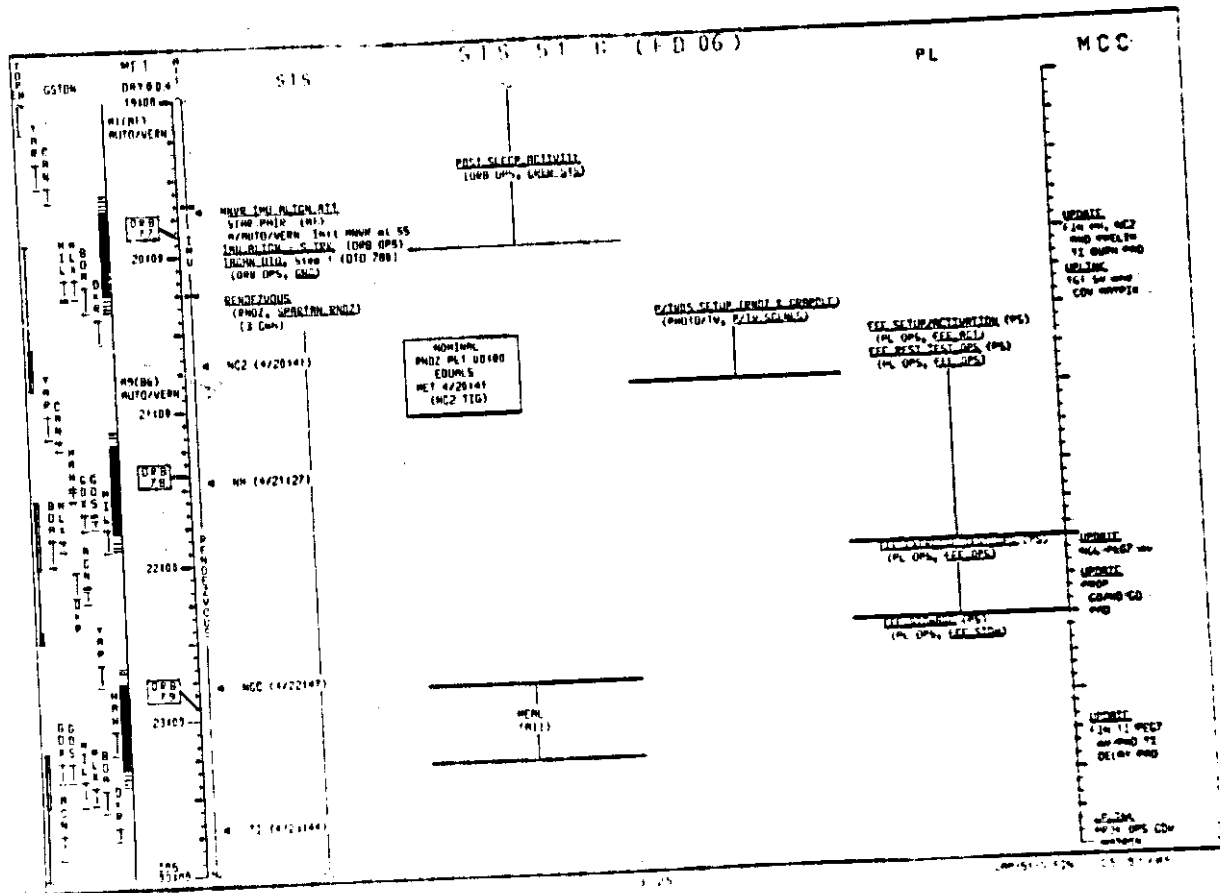
1000 OPS (1000 Ops) (1000 Ops)

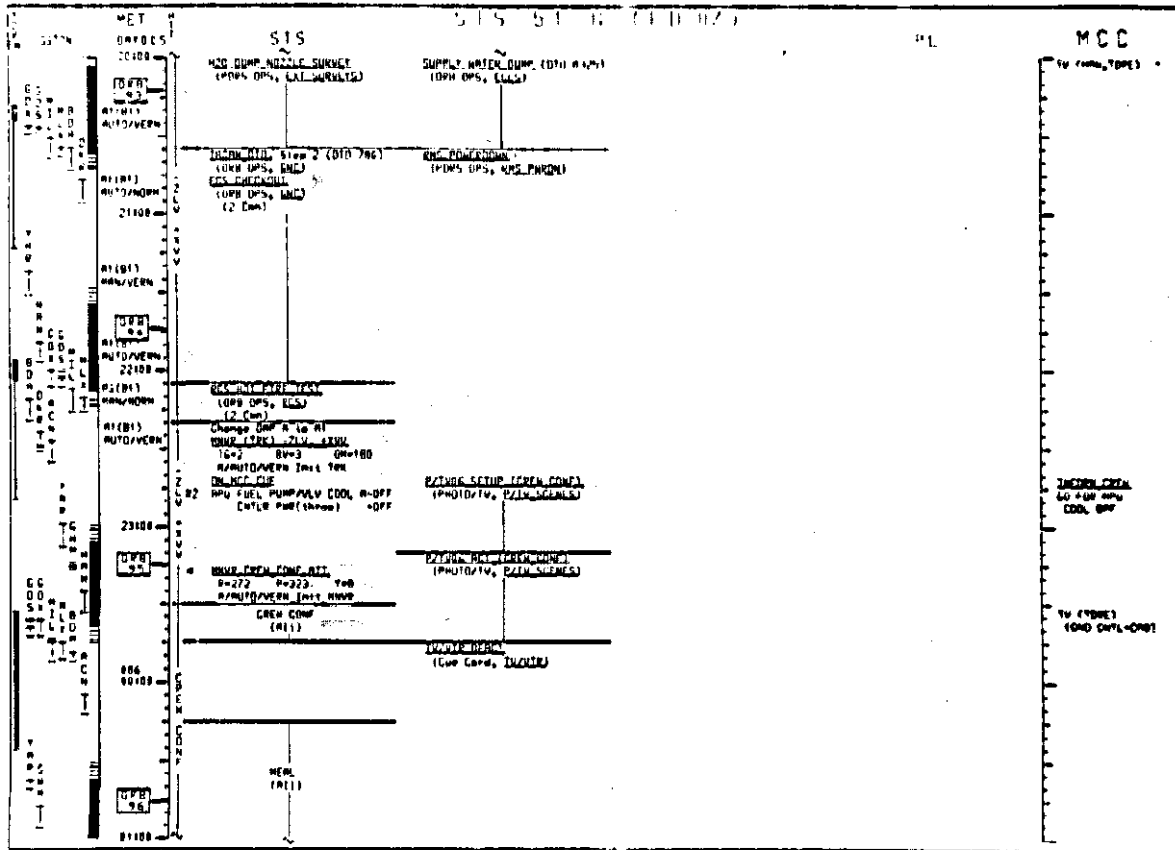








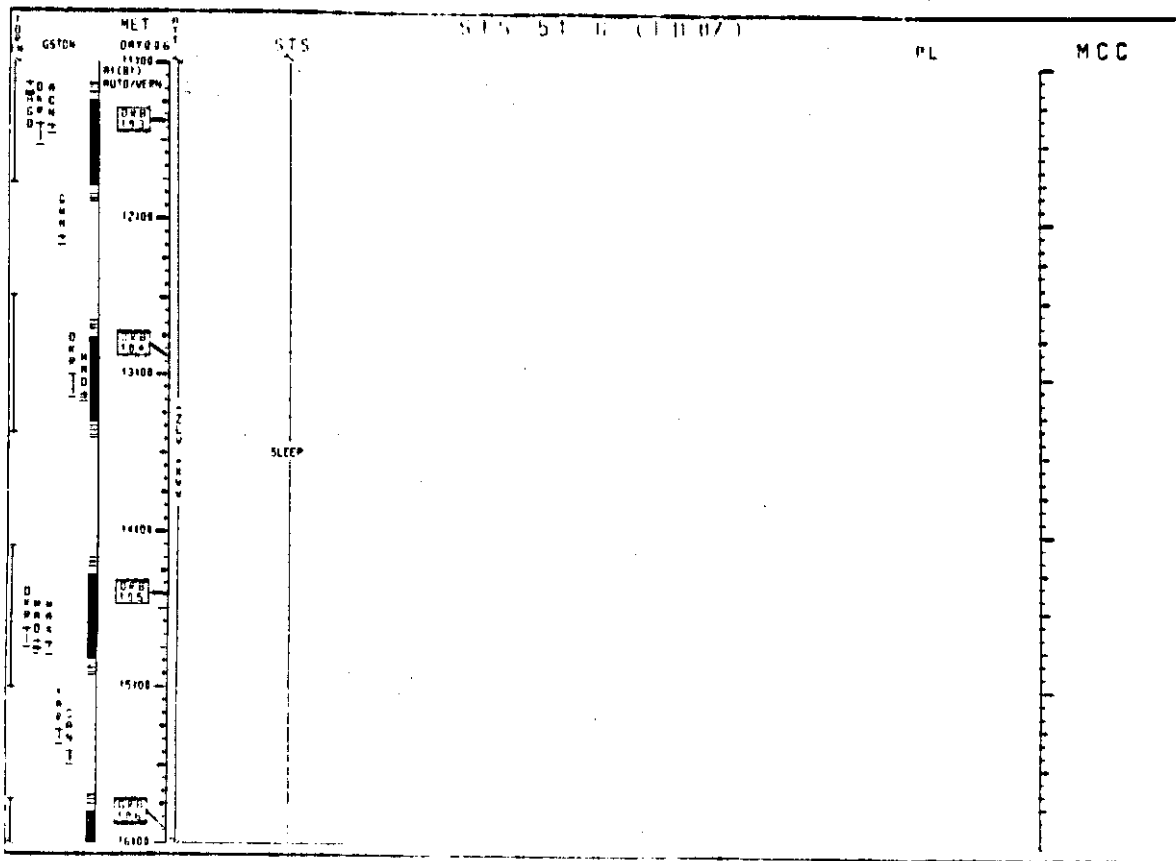




STS 51 L (1107)

PL

MCC



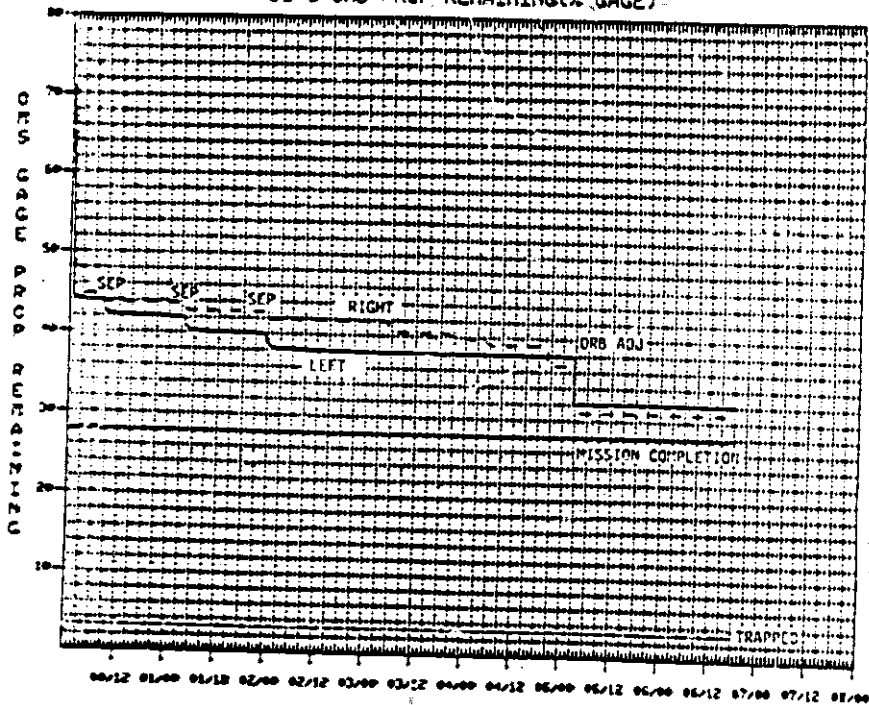
CONSUMABLES CURVES

CONSUMABLES
CURVES

CONSUMABLES
CURVES

27 March 1985
 SDDS 3-758 add 1
 Prepared by: R. J. Glover/MSCC
 Verified by: *RJ Walker*

51-G OMS PROP REMAINING(% GAGE)



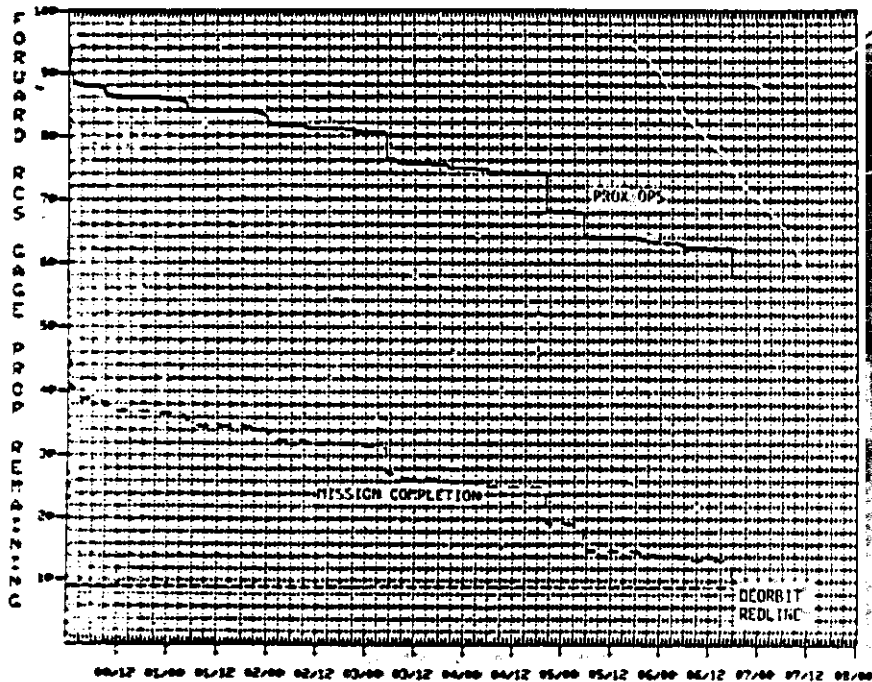
MISSION ELAPSED TIME IN DAYS/HOURS

4-2

CAP/51-G/FIN

27 March 1985
5005 J-75B add 4
Prepared by: R.A. Glover
Verified by: *R.A. Glover*

SI-G FORWARD RCS PROP REMAINING(X GAGE)



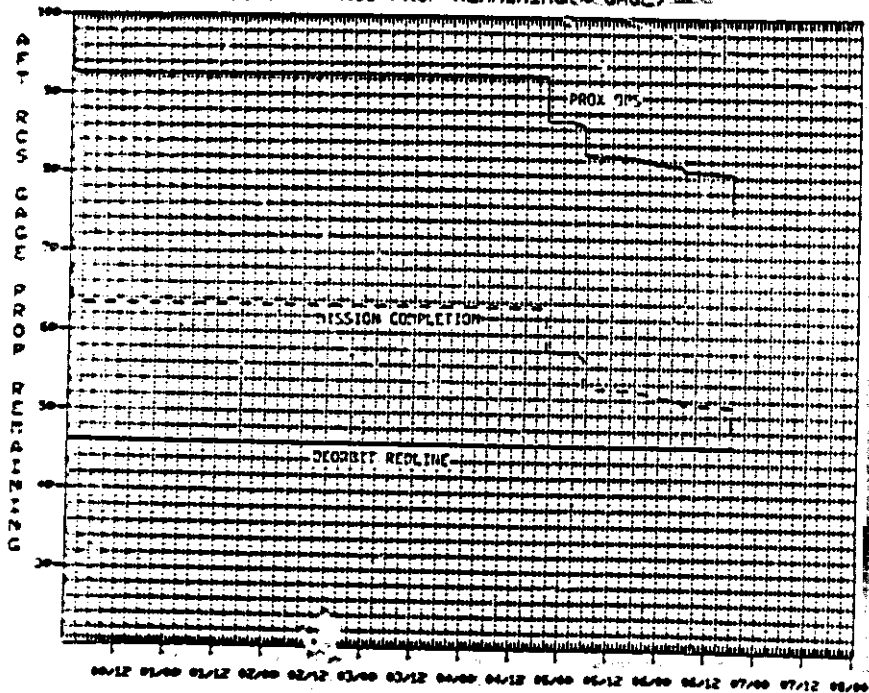
MISSION ELAPSED TIME IN DAYS/HOURS

4-3

CAP/51-G/FIN

27 Dec 1965
MODS J-758 add 4
Prepared by: R.A. Glover/107550
Verified by: *R.A. Glover*

51-G AFT RCS PROP REMAINING(% GAGE)



MISSION ELAPSED TIME IN DAYS/HOURS

4-4

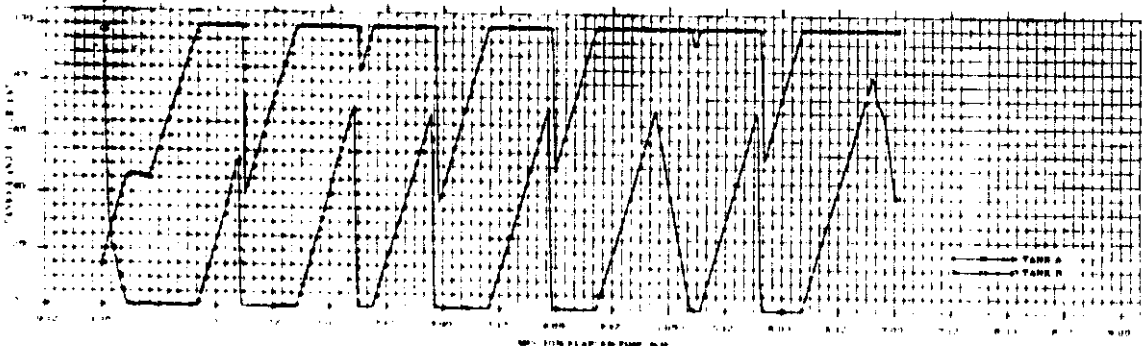
CAP/51-G/FIN

RESEARCH CORPORATION MODEL 100000-100000-100000

TESTING OFFICE -
100000-100000-100000
100000-100000-100000
gpc 5/15

TRAP POINT OFF 1 PLE 1
CAP. 100000
ANALYSIS DATE APRIL 26 1965

----- 100% CONTINGENCY RESERVE (10%) MIN. WELSH
----- 100% CONTINGENCY RESERVE (10%) MIN. WELSH



100000-100000-100000

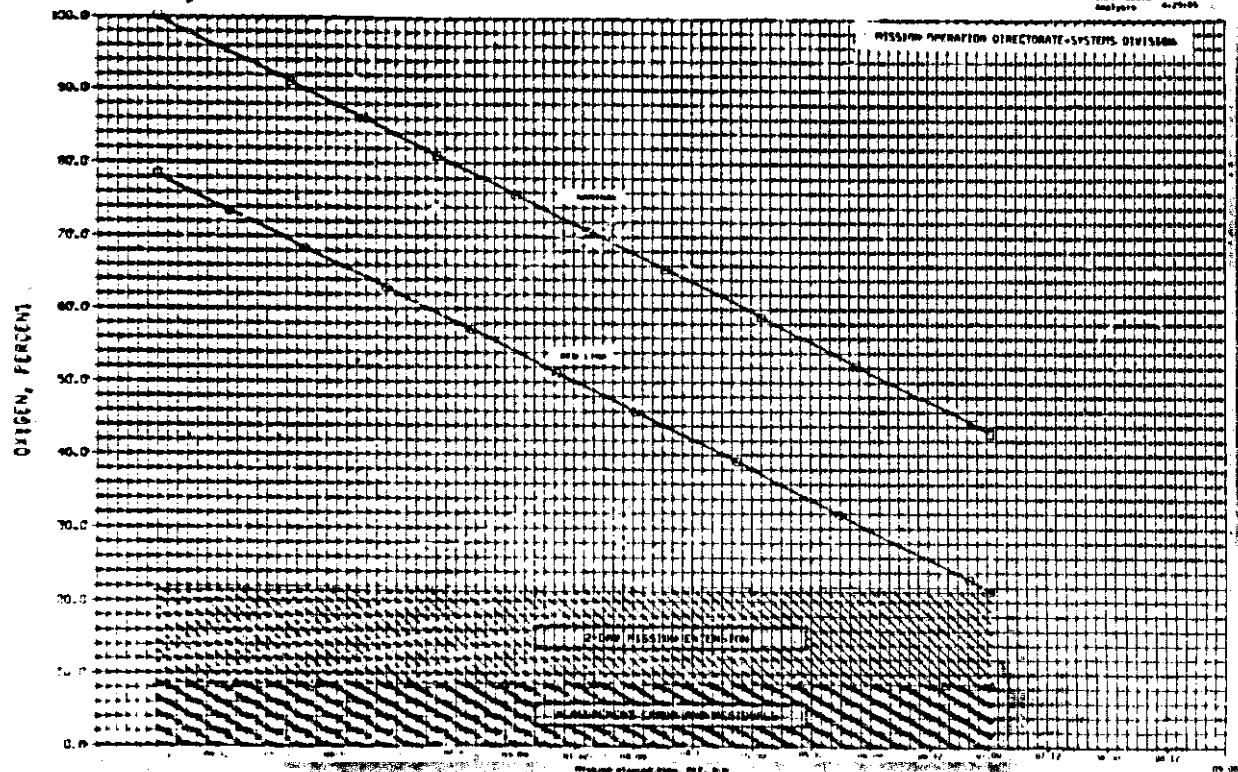
100000-100000-100000
8-5

CAP/ST-G/FIN

Handwritten notes at top left, possibly including a name like "John A. ...".

Form No. 1
100-1000
100-1000
100-1000

MISSION OPERATION DIRECTORATE-SYSTEMS DIVISION



MISSION OPERATION DIRECTORATE-SYSTEMS DIVISION
PLANNED OXYGEN RESERVE

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

STS 51-G DAP BOOK

DAP A CONFIGURATIONS..... 5-2
DAP B CONFIGURATIONS..... 5-3
STS 51-G DAP BOOK..... 5-4

DAP BOOK

DAP A CONFIGURATIONS

	A1*	A2	A3	A4	A5	A6	A7	A9	A10	A12
TRANSLATION										
PULSE ft/sec	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.10	0.05	0.10
ROTATION										
DSC RT NORM °/sec	0.200	0.400	0.200	0.200	0.200	0.200	0.100	0.200	0.200	0.500
VERN °/sec	0.200	0.400	0.200	0.008	0.200	0.200	0.008	0.200	0.200	0.200
PULSE NORM °/sec	0.10	0.10	0.30	0.10	0.10	0.10	0.10	0.10	0.10	0.10
VERN °/sec	0.010	0.010	0.010	0.010	0.050	0.010	0.010	0.010	0.010	0.010
COMP NORM °/sec	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
VERN °/sec	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
DEADBAND										
ATT NORM (deg)	5.00	1.00	5.00	1.00	5.00	5.00	1.00	2.00	2.00	2.00
VERN (deg)	1.000	1.000	1.000	0.070	1.000	1.000	0.500	1.000	1.000	1.000
RATE NORM °/sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERN °/sec	.020	.020	.020	.010	.020	.020	.010	.020	.020	0.020
JET OPT										
P	1	1	3	1	1	3	3	1	1	1
Y	1	1	3	3	1	3	3	1	1	1
ENTL ACCEL	0	0	0	0	0	0	2	0	0	0

*I-LOADED OPS-2 DAP Configuration

DAP B CONFIGURATIONS

	B1*	B2	B3	B4	B5	B6	B7
TRANSLATION							
PULSE ft/sec	0.02	0.02	0.02	0.02	0.02	0.05	0.01
ROTATION							
DSC RT NORM %/sec	0.500	0.200	0.200	0.200	0.200	0.500	0.200
VERN %/sec	0.200	0.200	0.200	0.008	0.016	0.200	0.200
PULSE NORM %/sec	0.04	0.04	0.04	0.04	0.04	0.04	0.04
VERN %/sec	0.002	0.002	0.002	0.002	0.002	0.002	0.002
COMP NORM %/sec	.00	.00	.00	.00	.00	.00	.00
VERN %/sec	.000	.000	.000	.000	.000	.000	.000
DEADBRAND							
ATT NORM (deg)	3.00	3.00	3.00	0.30	3.00	2.00	2.00
VERN (deg)	1.000	1.000	1.000	0.100	0.033	1.000	1.000
RATE NORM %/sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERN %/sec	.020	.020	.020	.010	.020	.020	.020
JET OPT							
P	1	3	1	1	3	1	1
Y	1	3	1	3	3	1	1
CNTL ACCEL	0	0	0	0	0	0	0

*1-LOADED OPS-2 DAP Configuration

TOP
FRONT COVER 'DAP BOOK'

DAP BOOK

HOOK
VELCRO

CAP/SI-G/O/245

CAP/SI-G/O/PIA

LDRY PIS	
TGT ID	1 Orbiting Vehicle
	2 Earth cpr
	3 Earth tgt
	Input CR7 (\$90)
	LCN (\$180, + = East)
	ALT (\$3448.0 to
	20000.0 Nm)
	4 Sun cpr
	5 Celestial tgt
	Input RA (0-359.99)
	DEC (0-90)
	11-110 Nbr Stars
HOOK VELCY	1 11
	2 10
	3 10
	4 PTC (-2 below +3)
	5 Optional
	Input P (0-359.99)
	Q (270-359.99, 0-90)
Input CM	CM (0-359.99)
NEW PIS	1 1
	2 1

620 DAP CON: 18			
CN'L ACCEL	0 Orbiter store	JET OPT	0 Normal
	1 SPARTAN at high		1 Nose only
	2 nose		2 Tail only
	3 SPARTAN at mid hdy		
	4 SPARTAN overhead		

TOP
BACK OF FRONT COVER
'DAP BOOK'

TOP

GAP PURPOSE

- A1 - NOMINAL
IMU ALIGN
LOSS OF YERN
- A2 - PIC
- A3 - RCS NOT FIRE
- A4 - GS
- A5 - IMU ALIGN (ROTATING)
- A6 - LOSS OF YERN
(TAIL ONLY)
- A7 - SPARTAN RELEASE
- A9 - RENDEZVOUS
- A10 - PROX OPS
- A11 - (Blank)
- A12 - PROX OPS

CAP/51-6/0/PIN

A1

TOP

DAPA1

PURPOSES

- NOMINAL
- IMU ALIGN
- LOSS OF YERN
- (NOSE & TAIL)

A1

0.1 0	1	TRANSLATION	
		PULSE	
0.0 0 0 0	2	POTATION	NOM
0.0 0 0 0	3	OSC AT	NOM
0.0 0 0 0	4	PULSE	NOM
0.0 0 0 0	5		NOM
0.0 0 0 0	6	COMP	NOM
0.0 0 0 0	7		NOM
1.0 0 0 0	8	DEADBAND	
1.0 0 0 0	9	ATT	NOM
			NOM
0.0 0 0	10	RATE	NOM
0.0 0 0	11		NOM
	12	JET OPS	P
	13		V
	14	EN% ACCEL	

CAP/51-6/0/BAS

CAP/51-6/0/BAS

A2

TOP



A1



TOP



DAPA2

PURPOSE:
PTC

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

A2

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS



TOP



A3



A2



TOP



DAPA3

PURPOSE:
RCS NOT FIRE

0.1	0	1	TRANSLATION
			PULSE
0.1	0	2	ROTATION
0.1	0	3	DSC RT NORM
0.1	0	4	VERB
0.1	0	5	PULSE NORM
0.1	0	6	VERB
0.1	0	7	COMP NORM
			VERB
1.0	0	8	DEADBAND
1.0	0	9	ATT NOPI
			VERB
0.1	0	10	RATE NORM
0.1	0	11	VERB
		12	JET OPT P
		13	V
		14	CNTL ACCEL

A3

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

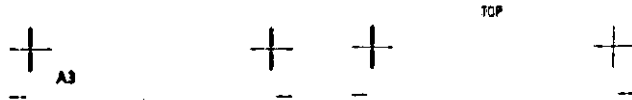


TOP



A4





A3
DAPA4

PURPOSE:
GG

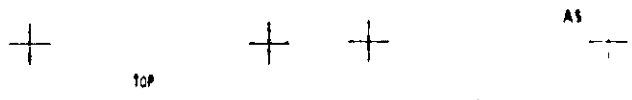


A4

- | | | |
|-------|----|-------------------|
| 0-1 0 | 1 | TRANSLATION PULSE |
| 0-1 0 | 2 | ROTATION DSC RT |
| 0-1 0 | 3 | VERN |
| 0-1 0 | 4 | PULSE |
| 0-1 0 | 5 | VERN |
| 0-1 0 | 6 | COMP |
| 0-1 0 | 7 | VERN |
| 0-1 0 | 8 | DEARBAND ATT |
| 0-1 0 | 9 | VERN |
| 0-1 0 | 10 | PATE |
| 0-1 0 | 11 | VERN |
| 0-1 0 | 12 | JET CRT |
| 0-1 0 | 13 | P |
| 0-1 0 | 14 | ENTL ACCEL |

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS



TOP

A5



A4

TOP

DAPAS

PURPOSE:
IMU ALIGN (ROTATING)

- | | | |
|-------|----|-------------------|
| 0-1 0 | 1 | TRANSLATION PULSE |
| 0-1 0 | 2 | ROTATION DSC RT |
| 0-1 0 | 3 | VERN |
| 0-1 0 | 4 | PULSE |
| 0-1 0 | 5 | VERN |
| 0-1 0 | 6 | COMP |
| 0-1 0 | 7 | VERN |
| 0-1 0 | 8 | DEARBAND ATT |
| 0-1 0 | 9 | VERN |
| 0-1 0 | 10 | PATE |
| 0-1 0 | 11 | VERN |
| 0-1 0 | 12 | JET CRT |
| 0-1 0 | 13 | P |
| 0-1 0 | 14 | ENTL ACCEL |

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS



TOP

A6

TOP

A5

CAP A6

PURPOSE:

LOSS OF VERN
(TAI) ONLY

A6

0-1 0	1	TRANSLATION	
		PULSE	
0-1 0	2	ROTATION	
		BSC RT	NORM
0-1 0	3		VERN
0-1 0	4	PULSE	NORM
0-1 0	5		VERN
0-1 0	6	COMP	NORM
0-1 0	7		VERN
0-1 0	8	DEADBAND	
		ATT	NORM
0-1 0	9		VERN
0-1 0	10	RATE	NORM
0-1 0	11		VERN
	12	JET OPT	P
	13		V
	14	ENTL ACCEL	

CAP/ST-G/O/BAS

CAP/ST-G/O/BAS

A7

TOP

TOP

A6

CAP A7

PURPOSE:

SFARTAN RELEASE

A7

0-0 0	1	TRANSLATION	
		PULSE	
0-1 0	2	ROTATION	
		BSC RT	NORM
0-1 0	3		VERN
0-1 0	4	PULSE	NORM
0-1 0	5		VERN
0-1 0	6	COMP	NORM
0-1 0	7		VERN
0-1 0	8	DEADBAND	
		ATT	NORM
0-1 0	9		VERN
0-1 0	10	RATE	NORM
0-1 0	11		VERN
	12	JET OPT	P
	13		V
	14	ENTL ACCEL	

CAP/ST-G/O/BAS

CAP/ST-G/O/BAS

A6

TOP

+ A7

DAPA8

PURPOSE:
RENDEZVOUS

CAP/SL-G/O/BAS

+ TOP

+ A8

DAPA10

PURPOSE:
PRGR OPS

CAP/SL-G/O/BAS

+ TOP

+ A9

TOP

A9

0.1 0	1	TRANSLATION	
0.1 0	2	PULSE	
0.1 0	3	ROTATION	
0.1 0	4	ESC RT	NORM
0.1 0	5	PULSE	NORM
0.1 0	6	COMP	NORM
0.1 0	7	VERB	VERB
0.1 0	8	DEADBAND	
0.1 0	9	ATT	NORM
0.1 0	10	VERB	VERB
0.1 0	11	RATE	NORM
0.1 0	12	VERB	VERB
0.1 0	13	SET OFF	
0.1 0	14	CNTL ACCE.	

CAP/SL-G/C/BAS

+ A10

TOP

A10

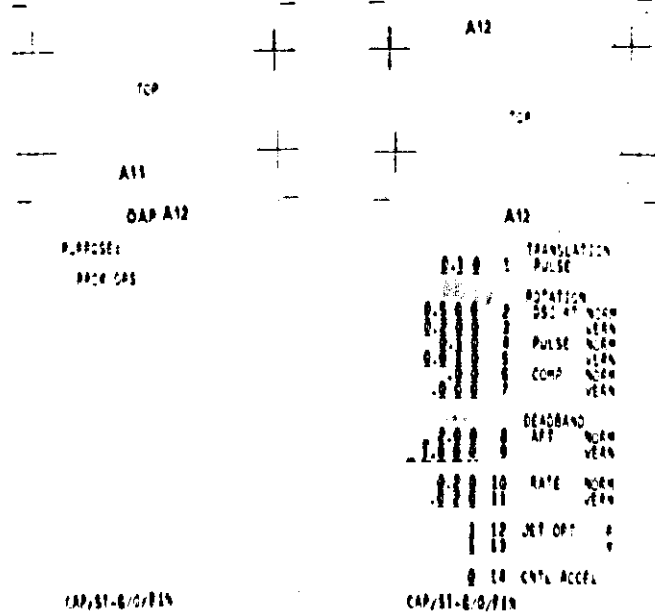
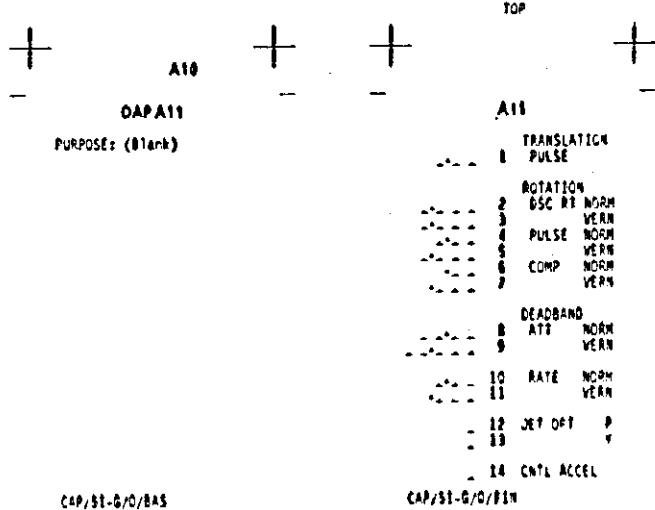
A10

0.1 0	1	TRANSLATION	
0.1 0	2	PULSE	
0.1 0	3	ROTATION	
0.1 0	4	ESC RT	NORM
0.1 0	5	PULSE	NORM
0.1 0	6	COMP	NORM
0.1 0	7	VERB	VERB
0.1 0	8	DEADBAND	
0.1 0	9	ATT	NORM
0.1 0	10	VERB	VERB
0.1 0	11	RATE	NORM
0.1 0	12	VERB	VERB
0.1 0	13	SET OFF	
0.1 0	14	CNTL ACCE.	

CAP/SL-G/C/BAS

+ A11

TOP



A12

+

TOP

+

DAP PURPOSE

- 01 - NOMINAL
PACS IMU ALIGN
OMS & RCS BURNS
- 02 - LOSS OF VEAN
(TAIL ONLY)
- 03 - LOSS OF VEAN
GG MMR
- 04 - PAM DEPLOY
FRISBEE DEPLOY
- 05 - COAS CAL
- 06 - RENDEZVUS
- 07 - PRGN OPS
- 08 - (Blank)

CAP/ST-6/O/PIN

CAP/ST-6/O/PIN

+

+

+

01

TOP

TOP

+

+

+

+

OAP 01

01

PURPOSE

NOMINAL
PACS IMU ALIGN
OMS & RCS BURNS

TRANSLATION
PULSE 18 1.0 0

ROTATION

DSC AT	NORM	16	0.0	0.0	0.0
	VEAN	17	0.0	0.0	0.0
PULSE	NORM	18	0.0	0.0	0.0
	VEAN	19	0.0	0.0	0.0
COMP	NORM	20	0.0	0.0	0.0
	VEAN	21	0.0	0.0	0.0

DEADBAND

ATT	NORM	22	1.0	0.0	0.0
	VEAN	23	1.0	0.0	0.0

DATE	NORM	24	0.0	0.0	0.0
	VEAN	25	0.0	0.0	0.0

JET OPS	P	26			
	V	27			

DATA ACCEL 28 0

CAP/ST-6/O/EAS

CAP/ST-6/O/EAS

+

+

+

02

TOP

(reduce copy)

TOP

01

OAP 02

PURPOSE:
LOSS OF VERN
(TAIL ONLY)

02

TRANSLATION			
PULSE	15	0.0	2
ROTATION			
BSC RT	NORM 16	0.0	0.0
VERN	17	0.0	0.0
PULSE	NORM 18	0.0	0.0
VERN	19	0.0	0.0
COMP	NORM 20	0.0	0.0
VERN	21	0.0	0.0
DEADBAND			
ATT	NORM 22	1.0	0.0
VERN	23	1.0	0.0
RATE	NORM 24	0.0	0.0
VERN	25	0.0	0.0
JET OFF	P 26		1
	V 27		1
CNTL ACCEL	28		0

CAP/51-G/O/BAS

TOP

02

OAP 03

PURPOSE:
LOSS OF VERN
(NOSE & TAIL)
25 MIN.

03

TRANSLATION			
PULSE	15	0.0	2
ROTATION			
BSC RT	NORM 16	0.0	0.0
VERN	17	0.0	0.0
PULSE	NORM 18	0.0	0.0
VERN	19	0.0	0.0
COMP	NORM 20	0.0	0.0
VERN	21	0.0	0.0
DEADBAND			
ATT	NORM 22	1.0	0.0
VERN	23	1.0	0.0
RATE	NORM 24	0.0	0.0
VERN	25	0.0	0.0
JET OFF	P 26		1
	V 27		1
CNTL ACCEL	28		0

CAP/51-G/O/BAS

TOP

03

+

83

DAP 84

PURPOSE:
PAN DEPLOY
FRISBEE DEPLOY

CAP/SI-G/O/BAS

+

TOP

+

DAP 85

PURPOSE:
COAS CAL

CAP/SI-G/O/BAS

+

TOP

+

+

TOP

84

TRANSLATION
PULSE 15 0-0 2

ROTATION
DSC RT NORM 16 0-0 0 0
VERN 17 0-0 0 0
PULSE NORM 18 0-0 0 0
VERN 19 0-0 0 0
COMP NORM 20 0-0 0 0
VERN 21 0-0 0 0

DEP BAND
ATT NORM 22 0-0 0 0
VERN 23 0-0 0 0

PATE NORM 24 0-0 0 0
VERN 25 0-0 0 0

JET OPT P 26 1
V 27 1

CNTL ACCEL 28 0

CAP/SI-G/O/BAS

+

+

85

TOP

84

+

+

85

TRANSLATION
PULSE 15 0-0 2

ROTATION
DSC RT NORM 16 0-0 0 0
VERN 17 0-0 0 0
PULSE NORM 18 0-0 0 0
VERN 19 0-0 0 0
COMP NORM 20 0-0 0 0
VERN 21 0-0 0 0

DEAD BAND
ATT NORM 22 0-0 0 0
VERN 23 0-0 0 0

PATE NORM 24 0-0 0 0
VERN 25 0-0 0 0

JET OPT P 26 1
V 27 1

CNTL ACCEL 28 0

CAP/SI-G/O/BAS

+

+

86

TOP

BS

OAP 86

PURPOSE:
RENDEZVOUS

TRANSLATION					
PULSE	15	0.0	1		
ROTATION					
DSC RT	NORM 16	0.0	0.0	0.0	0.0
	VERN 17	0.0	0.0	0.0	0.0
PULSE	NORM 18	0.0	0.0	0.0	0.0
	VERN 19	0.0	0.0	0.0	0.0
COMP	NORM 20	0.0	0.0	0.0	0.0
	VERN 21	0.0	0.0	0.0	0.0

DEADBAND					
ATT	NORM 22	1.0	0.0	0.0	0.0
	VERN 23	1.0	0.0	0.0	0.0

RATE	NORM 24	0.0	0.0	0.0	0.0
	VERN 25	0.0	0.0	0.0	0.0

JET CPT	P 26				
	V 27				

ENTL ACCEL 28 0

CAP/SI-G/C/BAS

CAP/SI-G/C/BAS

87

TOP

TOP

86

OAP 87

PURPOSE:
PROG 800

TRANSLATION					
PULSE	15	0.0	1		
ROTATION					
DSC RT	NORM 16	0.0	0.0	0.0	0.0
	VERN 17	0.0	0.0	0.0	0.0
PULSE	NORM 18	0.0	0.0	0.0	0.0
	VERN 19	0.0	0.0	0.0	0.0
COMP	NORM 20	0.0	0.0	0.0	0.0
	VERN 21	0.0	0.0	0.0	0.0

DEADBAND					
ATT	NORM 22	1.0	0.0	0.0	0.0
	VERN 23	1.0	0.0	0.0	0.0

RATE	NORM 24	0.0	0.0	0.0	0.0
	VERN 25	0.0	0.0	0.0	0.0

JET CPT	P 26				
	V 27				

ENTL ACCEL 28 0

CAP/SI-G/C/BAS

CAP/SI-G/C/BAS

88

+

87

+

+

TOP

+

DAP 88

88

PURPOSE: (Blank)

TRANSLATION
PULSE 15

ROTATION
DSC RT NORM 16
VERM 17
PULSE NORM 18
VERM 19
COMP NORM 20
VERM 21

DEADBAND
ATT NORM 22
VERM 23

RATE NORM 24
VERM 25

JET OPT P 26
V 27

ENTL ACCEL 28
CAP/SI-S/O/EAS

CAP/SI-S/O/EAS

+

TOP

+

+

+

+

88

+

CAP/SI-S/O/EAS

+

TOP

TOP
BACK COVER 'DAP BOOK'



HOOK
VELCRO

CAP/51-G/8AS



ATTITUDE
TIMELINE

ATTITUDE TIMELINE

ATTITUDE
TIMELINE

Attitude Timeline

REF	MODE CATEGORY	MODE	DISC	AT	EA	REMARKS	REASON
1	0 0110100	TRN TGT#2 B*43: 30.00, 15.00 OM#10.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 35	LVLN P#145 P# 0 V# 0	FAILED OPENING BIASED -OL
2	0 0110100 17816	MNR P#112.00 P#111.00 V# 43.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 67 0 121		IMU ALIGN COAS DR PAIR A1
3	0 0110100 21444	TRN TGT#2 B*43: 30.00, 0.00 OM#10.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 160	LVLN P#110 P# 0 V# 30	-OL -
4	0 0110100 24116	MNR P#112.14 P# 62.24 V# 13.27	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 30 0 177		NOPELOS ZERO
5	0 0110100 16824	MNR P#276.00 P#126.00 V#110.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 152 0 124		EEP EURN
6	0 0110100 21426	TRN TGT#2 B*43: 30.00, 0.00 OM#10.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 0	LVLN P#110 P# 0 V# 0	FAILED LEADING
7	0 0110100 44116	TRN TGT#2 B*43: 240.00, 15.00 OM#10.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 116 0 143	LVLN P# 17 P# 10 V# 21	IMU ALIGN PAIR A1
8	0 0110100	CANCEL	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 113 0 172	INRT P#106 P# 0 V#112	INRT HOLD FOR PAIR
9	0 0110100 21455	TRN TGT#2 B*43: 30.00, 0.00 OM#10.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 160	LVLN P#110 P# 0 V# 30	-OL -
10	0 1010100 17816	MNR P#112.00 P#111.00 V# 43.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 67 0 121		IMU ALIGN PAIR A1
11	0 1010100 15121	TRN TGT#2 B*43: 30.00, 0.00 OM#10.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	EARTH 0 30 0 160	LVLN P#110 P# 0 V# 30	-OL -
12	0 2110100 21410	MNR P#112.00 P#111.00 V# 43.00	A1 AUTO VERN	BSC 0.200 EB AT 1.00 EB RT 0.02	SUN 0 67 0 120		IMU ALIGN PAIR A1

***ALL ATTITUDES IN REF# OF 1350**

P-2

CAP 5100 REF

Attitude Schedule

REV	MNR ORIGIN	REF	SEC	E-S	REMARKS	EVENT
0	22:15:00 46:08	TF: TGT#2 SV#3: 90.00, 0.00 CM#270.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	EARTH EVLN P#120 P# 0 Y# 90	-CLV +VVV
2	1 01:38:28 46:25	MNVR P#192.00 P# 61.76 Y# 17.20	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	SUN P# 90 P# 275	APASHT DEPLO.
3	1 02:26:28 26:02	MNVR P#278.00 P#158.00 Y#115.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	SUN P# 146 P# 126	SEP EURN
4	1 02:41:28 42:36	TF: TGT#2 SV#3: 90.00, 0.00 CM#180.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	EARTH EVLN P#100 P# 0 Y# 0	FAVLOMI VIEWING
5	1 02:42:08 01:04:08	TF: TGT#2 SV#3: 193.00, 0.00 CM# 0.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	EARTH EVLN P# 5 P# 17 Y# 7	HINDOL PROTECT
6	1 03:03:28	CANCEL	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	SUN INPL P#272 P#337 P#226	INPL HOLD FOR P#
7	1 03:17:08 27:00	TF: TGT#2 SV#3: 90.00, 0.00 CM# 0.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	EARTH EVLN P# 0 P#100 Y# 0	-CLV +VVV
8	1 03:17:18 03:23:28	MNVR P#112.00 P#151.00 Y# 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	SUN P# 66 P# 120	IMU ALIGN PAIR A1
9	1 03:17:08 23:10	TF: TGT#2 SV#3: 90.00, 0.00 CM#270.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	EARTH EVLN P#100 P# 0 Y# 90	-CLV +VVV
10	1 03:17:48 26:10	MNVR P#112.00 P#151.00 Y# 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	SUN P# 66 P# 120	IMU ALIGN PAIR A1
11	1 03:17:08 41:04	TF: TGT#2 SV#3: 90.00, 0.00 CM#270.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	EARTH EVLN P#100 P# 0 Y# 90	-CLV +VVV
12	1 03:17:18 17:00	MNVR P#200.00 P# 67.00 Y# 13.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 SB PT 0.02	SUN P# 90 P# 265	TELSTAR DEPLO.

0-2

CAF 01:2 P10

***** ATTENTION IN YEAR OF 1950****

Attitude Logging

REV	DATE	TIME	MODE	CP1	CP2	CP3	CP4	CP5	REMARKS	EVENT
1	23	09:10	MAN	F=201.00 F=160.00 Y=321.00						SEP 215M
		59:45								
2	00	10:10	TF	TGT=2 SV=34 90.00, 0.00 CM=100.00						FAYLOAD VIEWING
		00:10								
3	00	14:10	TF	TGT=2 SV=5 243.00, 31.00 CM= 19.00						WINDOW PROTECT
		20:00								
4	00	32:10	CANCEL							INRTL HOLD FOR P/M
5	00	42:10	TF	TGT=2 SV=3 90.00, 0.00 CM= 0.00						-CALV -1000
		51:15								
6	02	10:20	CANCEL							E. REPIMENT STARTUP
										STRTG 300
7	02	20:00	TF	TGT=2 SV=2 190.00, 0.00 CM= 0.00						PHANTOM STATION KEEPING
		44:00								
8	03	10:20	CANCEL							END STATION KEEPING
9	03	15:00	TF	TGT=2 SV=3 90.00, 0.00 CM=100.00						REL PULSE TEST
		20:00								
10	03	20:00	CANCEL							END REL PULSE TEST
11	03	00:10	TF	TGT=2 SV=5 225.00, 0.00 CM= 0.00						LIMIT CYCLE TEST
		04:05:00								
12	04	20:00	CANCEL							END LERN LMT C/C TEST

ALL ATTITUDES IN DEGR OF 1950

2-4

CAF 51-2 P14

Attitude Schedule

REV	MNVR OPTION	MODE	SEC	E-1	PERIOD	EVENT
1 2 05:05:00 00:29	TF1 TGT=2 BY=30.00, 0.00 OM=0.00	A1 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02	EARTH 0 90 0 0	LVLM F+0 F+100 Y+0	-ZLV +VVV
2 2 06:54:00	TF1 TGT=3 BY=30.00, 277.75 OM=270.10	B1 AUTO NCFM	BSC 0.500 B3 AT 3.00 B3 FT 0.20			HFTE
3 2 07:25:04	MNVR F+312.00 F+151.00 Y+ 43.00	A1 AUTO VEFN	BSC 0.200 B2 AT 1.00 B3 FT 0.02	SUN 0 00 0 119		IMU ALIGN FRIP A1
4 2 08:15:04 26:25	TF1 TGT=2 BY=30.00, 0.00 OM=270.00	A1 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02	EARTH 0 90 0 300	LVLM F+100 F+0 Y+90	-ZLV +VVV
5 2 20:13:32 24:50	MNVR F+312.00 F+151.00 Y+ 43.00	A1 AUTO VEFN	BSC 0.200 B2 AT 1.00 B3 FT 0.02	SUN 0 00 0 119		IMU ALIGN FRIP A1
6 2 20:30:32 41:57	TF1 TGT=2 BY=30.00, 0.00 OM=270.00	A1 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02	EARTH 0 90 0 300	LVLM F+100 F+0 Y+90	-ZLV +VVV
7 3 03:40:10 50:10	MNVR F+170.00 F+244.04 Y+ 22.95	B7 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02	SUN 0 53 0 206		SPARTAN DEPLOY
8 2 04:39:10 42:43	MNVR F+234.20 F+149.90 Y+ 23.50	A12 AUTO NCFM	BSC 0.500 B3 AT 2.00 B3 FT 0.20	SUN 0 04 0 143		SEP 2
9 3 24:54:10 57:12	TF1 TGT=1 BY=30.00, 0.00 OM=150.00	A12 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02			SPARTAN TF 1
10 3 25:29:10 51:55	TF1 TGT=1 BY=30.00, 150.00 OM=150.00	A12 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02			SPARTAN TF 2
11 3 05:54:07 58:39	MNVR F+312.00 F+151.00 Y+ 43.00	A1 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02	SUN 0 00 0 119		IMU ALIGN FRIP A1
12 3 07:14:07 25:36	TF1 TGT=2 BY=30.00, 0.00 OM=270.00	A1 AUTO VEFN	BSC 0.200 B3 AT 1.00 B3 FT 0.02	EARTH 0 90 0 300	LVLM F+100 F+0 Y+90	-ZLV +VVV

6-5

CAF 51-6 F14

ALL ATTITUDES IN PERM OF 1950

Attitude Stabilize

REV	MNVR OPTION	AP	E-S	REMARKS	EVENT
1 3 19:09:59 24:04	MNVR R+312.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 65 SB ST 0.02 0 110	SUN	IMU ALIGN FAIR A1
2 3 19:29:49 41:59	TRK TGT=2 SV=3(90.00, 0.00) OM=100.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 90 SB ST 0.02 0 0	EARTH LVLH R+100 P+ 0 Y+ 0	-ZLV +YVV
3 4 05:05:00 19:50	MNVR R+150.00 P+324.00 Y+322.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 103 SB ST 0.02 0 217	SUN	NC-1
4 4 05:25:00 33:30	TRK TGT=2 SV=3(90.00, 0.00) OM=270.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 90 SB ST 0.02 0 300	EARTH LVLH R+100 P+ 0 Y+ 90	-ZLV +YVV
5 4 07:25:23 39:02	MNVR R+312.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 64 SB ST 0.02 0 110	SUN	IMU ALIGN FAIR A1
6 4 07:45:29 57:03	TRK TGT=2 SV=3(90.00, 0.00) OM=270.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 90 SB ST 0.02 0 0	EARTH LVLH R+100 P+ 0 Y+ 90	-ZLV +YVV
7 4 19:40:56 55:07	MNVR R+312.00 P+151.00 Y+ 43.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 64 SB ST 0.02 0 110	SUN	IMU ALIGN FAIR A1
8 4 20:25:00 39:19	MNVR R+248.00 P+324.00 Y+324.00	A1 AUTO VERN	BSC 0.200 SB AT 1.00 0 103 SB ST 0.02 0 219	SUN	NC-2
9 4 20:43:00 45:22	TRK TGT=1 SV=3(90.00, 0.00) OM= 0.00	B1 AUTO NCFM	BSC 0.200 SB AT 3.00 0 0 SB ST 0.20 0 0	EARTH LVLH P+ 0 P+270 Y+ 0	SPARTAN TRK
10 4 21:24:43 39:42	MNVR R+280.00 P+153.00 Y+353.00	A3 AUTO VERN	BSC 0.200 SB AT 1.00 0 104 SB ST 0.02 0 141	SUN	FI
11 4 23:47:00 5 00:01:50	TRK TGT=1 SV=3(90.00, 0.00) OM= 0.00	A3 AUTO VERN	BSC 0.200 SB AT 1.00 0 0 SB ST 0.02 0 0	EARTH LVLH P+ 0 P+270 Y+ 0	SPARTAN TRK
12 5 01:01:05 10:03	TRK TGT=2 SV=3(90.00, 0.00) OM= 0.00	A10 AUTO VERN	BSC 0.200 SB AT 1.00 0 100 SB ST 0.02 0 0	EARTH LVLH P+ 0 P+ 90 Y+ 0	VEAF

E-6

CAP SI-G FIN

ALL ATTITUDES IN MEAN OF 1950

Attitude Timeline

RET	MNVR OPTION	REF	DSC	E-S	PERMITS	EVENT
1 5 02:35:00 42:30	TFX TGT=2 SV=3(90.00, 0.00) GM= 0.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	EARTH 0 90 0 0	LVLH R+ 0 F+100 Y+ 0	-ZLV +NVV
2 5 04:24:22 29:36	MNVR R+241.00 F+ 0.20 Y+ 47.40	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	SUN 0 44 0 243		ORBIT ADJUST
3 5 04:52:20 05:05:30	MNVR R+312.00 F+151.00 Y+ 43.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	SUN 0 64 0 117		IMU ALIGN FAIR R1
4 5 05:17:00	TFX TGT=3 SV=5(-3.00,277.75) GM=270.10	R1 AUTO NORM	DSC 0.500 33 AT 3.00 33 RT 0.20			MPTE
5 5 05:57:06	TFX TGT=2 SV=3(90.00, 0.00) GM=100.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	EARTH 0 90 0 0	LVLH R+100 F+ 0 Y+ 0	-ZLV +NVV
6 5 17:01:21 13:14	MNVR R+312.00 F+151.00 Y+ 43.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	SUN 0 63 0 117		IMU ALIGN FAIR R1
7 5 17:21:00 32:47	TFX TGT=2 SV=3(90.00, 0.00) GM=100.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	EARTH 0 90 0 0	LVLH R+100 F+ 0 Y+ 0	-ZLV +NVV
8 5 22:25:00	FREE IRIFT	R3 MAN NORM	DSC 0.200 33 AT 5.00 33 RT 0.20			FCS HOT PIPE
9 5 22:20:00	TFX TGT=2 SV=3(90.00, 0.00) GM=100.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	EARTH 0 90 0 0	LVLH R+100 F+ 0 Y+ 0	-ZLV +NVV
10 5 23:17:00 29:50	MNVR F+272.00 F+323.00 Y+ 8.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	SUN 0 66 0 196		CFEW CONFERENCE
11 6 01:15:00	CANCEL		DEX	SUN 0 66 0 196	INFTL F+272 F+323 Y+ 0	EXPERIMENT STARTUP (BTO 300)
12 6 02:40:00 53:53	TFX TGT=2 SV=3(90.00, 0.00) GM=100.00	R1 AUTO VERN	DSC 0.200 33 AT 1.00 33 RT 0.02	EARTH 0 90 0 0	LVLH R+100 F+ 0 Y+ 0	-ZLV +NVV

6-7

CAF 51-G FIN

ALL ATTITUDES IN MEAN OF 1950

Attitude Timeline

REF	MNVR OPTION	AI	BAP	E/C	REMARKS	EVENT
1 6-05:10:17 22:19	MNVR R+312.00 P+191.00 Y+ 47.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB RT 0.02	SUN 0 63 0 117		IMU ALIGN PAIR A1
2 6-05:30:17 41:47	TR: TGT=2 BV=3(99.00, 0.00) OM=100.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB RT 0.02	EARTH 0 90 0 0	LVLM R+100 P+ 0 Y+ 0	-ZLV +XVV
3 6-17:19:16 31:20	MNVR R+312.00 P+191.00 Y+ 47.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB RT 0.02	SUN 0 63 0 116		IMU ALIGN PAIR A1
4 6-17:39:16 43:57	TR: TGT=4 BV=5(100.00, 0.00) OM= 90.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB RT 0.02	SUN 0 176 0 180	ENRTL R+296 P+ 91 Y+207	-X51 ATT
5 6-20:15:30 24:56	MNVR R+ 12.00 P+146.00 Y+ 30.00	A1 AUTO VERN	BSC 0.200 BB AT 1.00 BB RT 0.02	SUN 0 76 0 59		IMU ALIGN
6 6-20:37:30 40:29	MNVR R+327.00 P+196.00 Y+332.00	B1 AUTO NORM	BSC 0.500 BB AT 3.00 BB RT 0.20	SUN 0 111 0 98		IMU VERIFY
7 6-21:00:39 05:53	MNVR R+215.00 P+ 33.78 Y+ 61.00	+ AUTO +	BSC 0.500 BB AT 3.50 BB RT 0.30	SUN 0 45 0 164		MNVR TO RECPBIT ATT

ALL ATTITUDES IN MEAN OF 1950

C-8

CAF 51-G FIN

FLIGHT DATA FILE
COLE DISTRIBUTION
04/30/85

JSC
AF/ Director
AF3/Support (2)
Sub Information
CAZK Chief
DAB/Chief (2)
DK/Chief
DF24/INCO (4)
DF63/Head
DGM/Kuskiel
DGM/Crew Sys (2)
DH4/DF MGR

FAO
TL
Flt Act Br (17)
DHB/Branch Off (3)
EC/Chief
EC2/Support (4)
E3/Chief
E4/Support
EN4/Chief
ENS/Chief
E5/Support
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Flight Data File Crew Activity Plan

STS 51-G

Mission Operations Directorate
Operations Division

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MORELOS Deploy	14:25	Thu	May 30
ARABSAT Deploy	08:43	Fri	May 31
TELSTAR Deploy	06:07	Sat	Jun 1
SPARTAN Deploy	10:48	Sun	Jun 2
SPARTAN Rendezvous	07:25	Tue	Jun 4
KSC Landing	06:36	Thu	Jun 6

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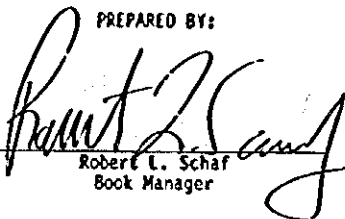
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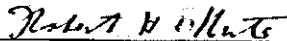
STS 51-G CREW ACTIVITY PLAN


BASIC
February 25, 1985


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STS 51-G CAP CUE CARDS

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INTRODUCTION

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

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

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

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OVERVIEW

SI-G
OVERVIEW

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SUMMARY
TIMELINE

SUMMARY TIMELINE

GMT (DZMM)	MET (DZMM)	CDT (DZMM)	(DZMM)	FDA (DZ)	DEFA (DZ)	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
						☉	NOV 27 1965	SPS 52-6	SMTC	122700Z
CDT 0000	00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00
MET 0000	00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00
STS			SLEEP							
							POST SLEEP			
									TELESTAT DEPLOY	
PL										
ASPDN COVERAGE										
YDPS										
NOTES:										

GMT (DTHM)	MET (DTHM)	CDT (DTHM)	FD/DOY	BETH	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
15311127	15312120	00310100	00310100	15310020	15311020	04/143	00	24/0	0
						JUNE 7, 1965	110 41-6	0851	07/25/65
CDT 1100	00 00								
MET 1000									
STS	H2O DUMP SUPPLY	SPARTAN DEPLOY				Z L V	SLEEP		
	WASTE H2O DUMP	REL	PRE SLEEP ACT						
	WE	P/TV SETUP	P/TV ACT	S C R I P T S B E C A U S E S E C O N D I T I O N S					
PL	SPARTAN DEPLOY				REL				
0000	48	49	50	51	52	53	54	55	
SYSTEM COVERAGE	W D R A C H	W D R A C H	W D R A C H	W D R A C H	W D R A C H	W D R A C H	W D R A C H	W D R A C H	W D R A C H
YORS									
POSTURE									
NOTES:	0 DTD 0325 WASTE AND SUPPLY WATER DUMPS 0 DTD 0325 WASTE AND SUPPLY WATER DUMPS 4 -ZLV, 000								

GMT (D/M/Y)	MET (D/M/Y)	CDT (D/M/Y)	FDZ DOY	REFR	MOON	MOON DATE	FLIGHT	EDITION	PUR. DATE
19640326Z	19640326Z	19640326Z	04/194	34.7	☉	JUNE 3, 1965	055 91-6	08511	02/25/65
CDT 1154	19	20	21	22	23	24	25	26	27
FD 08	12	13	14	15	16	17	18	19	20
MET 1554	12	13	14	15	16	17	18	19	20
STS	SLEEP						RENDZVUS OPS		
	POST SLEEP ACT						REFR		
							REFR SETUP		
PL									
OPERATION	72	73	74	75	76	77	78	79	
BASED ON	OPR	OPR	OPR	OPR	OPR	OPR	OPR	OPR	OPR
COVERSE	OPR	OPR	OPR	OPR	OPR	OPR	OPR	OPR	OPR
TOPS									
STATUS									
NOTES:									

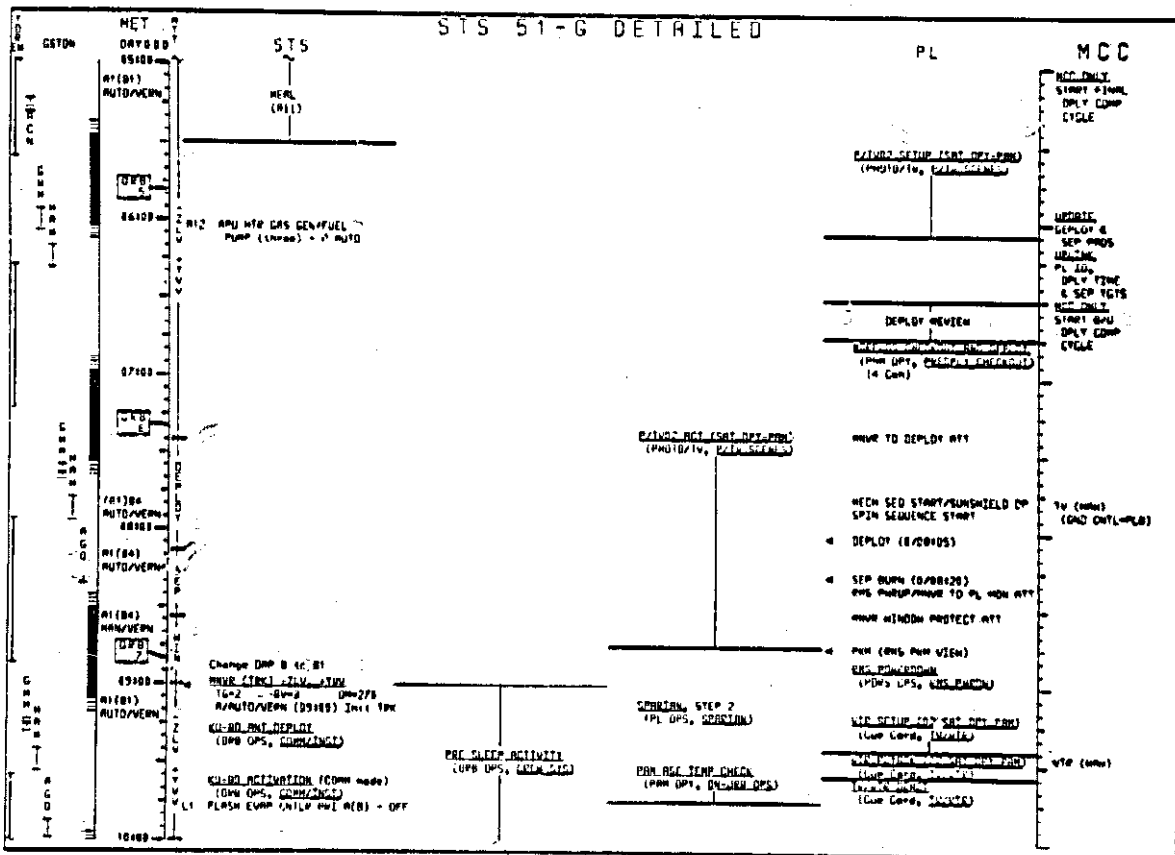
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156123170	15711170	08612100	087100100	100110100	157100170	07/146 FD	47.0	☉	JUNE 5, 1965	STS 51-G	08011	02/25/65
CDT 1106	08 + 07	NET 1000										
	19	20	21	22	23	24	25	26	27	28	29	30
	12	13	14	15	16	17	18	19	20	21	22	23
STS	SLEEP					1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32		DEORBIT PREP				
	PORT SLEEP NET							PLSD OPS		DEORBIT BURIN		
PL								D P S E C H L				
	103	104	105	106	107	108	109	110	111			
EXTD COVERAGE		-COP	-DEP	-TAP -CAN	-DEP -CAN	-TAP -CAN	-DEP -CAN	-TAP -CAN	-DEP -CAN	-TAP -CAN	-DEP -CAN	-TAP -CAN
ROWS												
NOTES:	© SPATIAL DESIGN CORP • TELSTAR/AMSAT MODELS											

GMT (DIMIN)	MET (DIMIN)	CDT (DIMIN)	PD/DOY	BETH	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																																				
157-1170/157-2320	007103100/2071-1188	107103100/1571-1870	00/157 001	44,4	☉	JUNE 6, 1965	STS 51-G	BOSTC	12/2/65																																				
CDT 1157	PD 1 00	MET 1000																																											
STS	<div style="position: absolute; left: 0; top: 50%; transform: translateY(-50%); white-space: nowrap;"> ESC LANDING (7:00:16) </div>																																												
PL																																													
<table border="1"> <thead> <tr> <th>0001</th> <th>111</th> <th>112</th> <th>113</th> <th>114</th> <th>115</th> <th>116</th> <th>117</th> <th>118</th> </tr> </thead> <tbody> <tr> <td>ASTOR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> </tr> <tr> <td>COVERSE</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> </tr> <tr> <td>TDNS</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> </tr> <tr> <td>RTS/RTY</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> <td>—CNR</td> </tr> </tbody> </table>										0001	111	112	113	114	115	116	117	118	ASTOR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	COVERSE	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	TDNS	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR
0001	111	112	113	114	115	116	117	118																																					
ASTOR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR																																					
COVERSE	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR																																					
TDNS	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR																																					
RTS/RTY	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR	—CNR																																					
NOTES:																																													

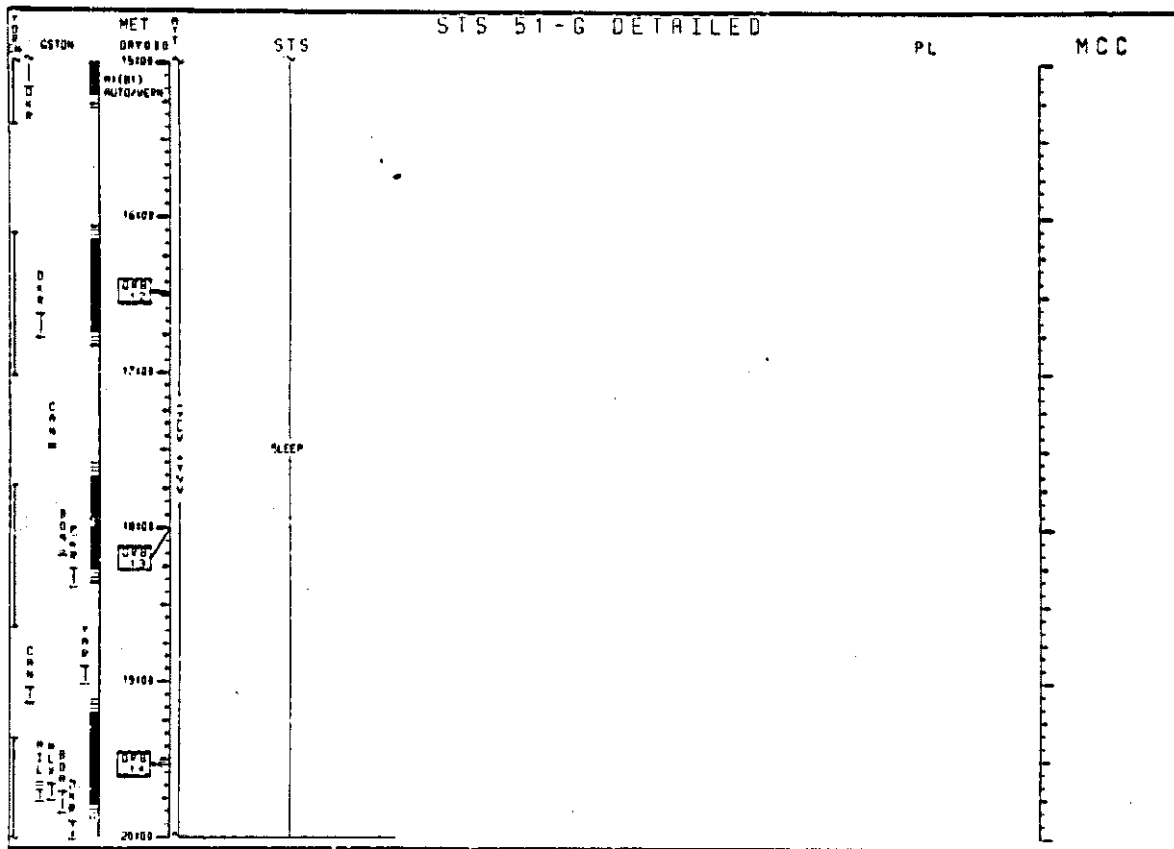
DETAILED TIMELINE

DETAILED
TIMELINE

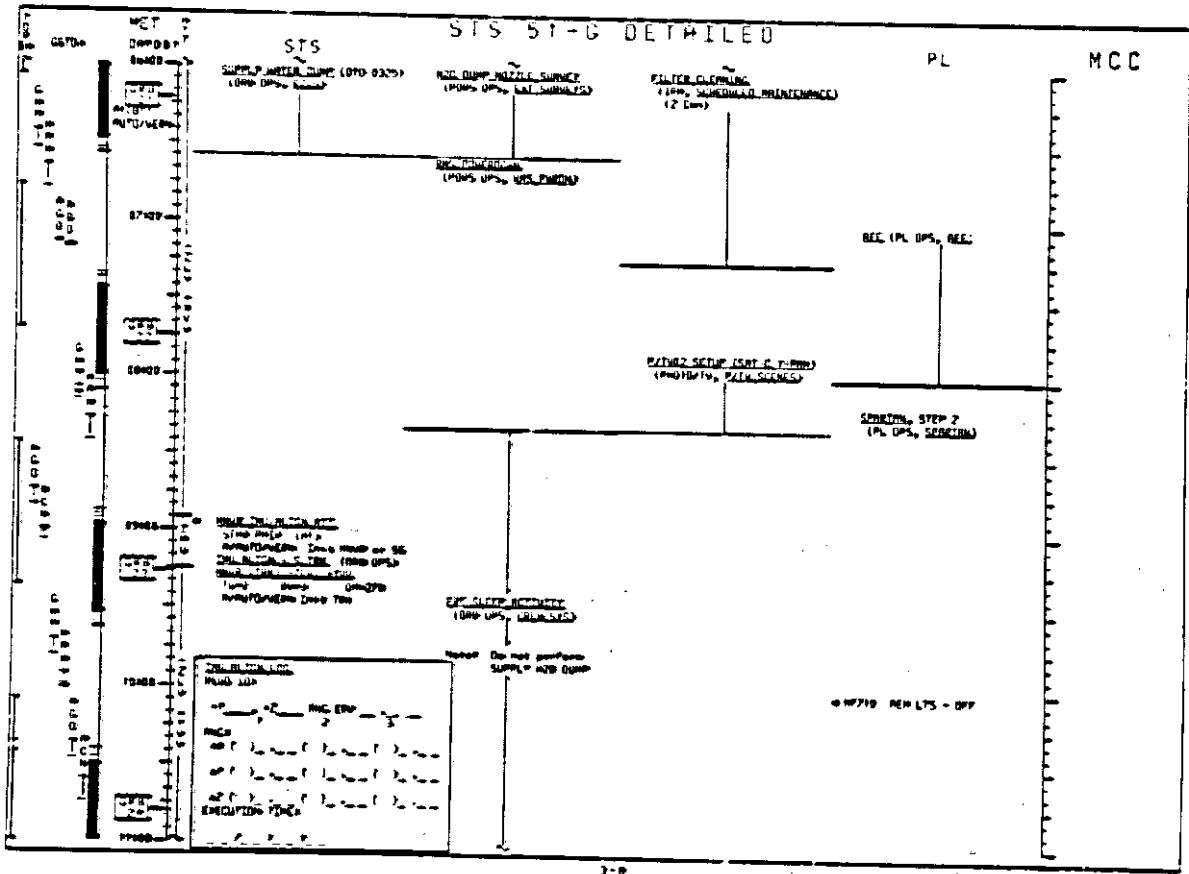
STS 51-G DETAILED



STS 51-G DETAILED



STS 51-G DETAILED



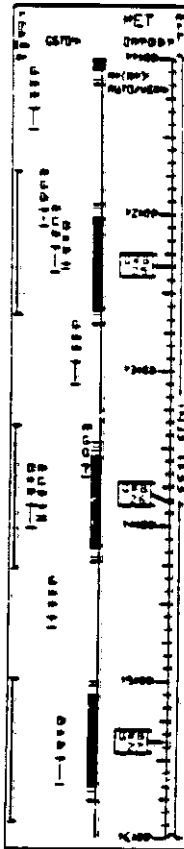
STS 51-G DETAILED

STS

PL

MCC

ONE OPERATOR
LOAD UP - 10:00 AM

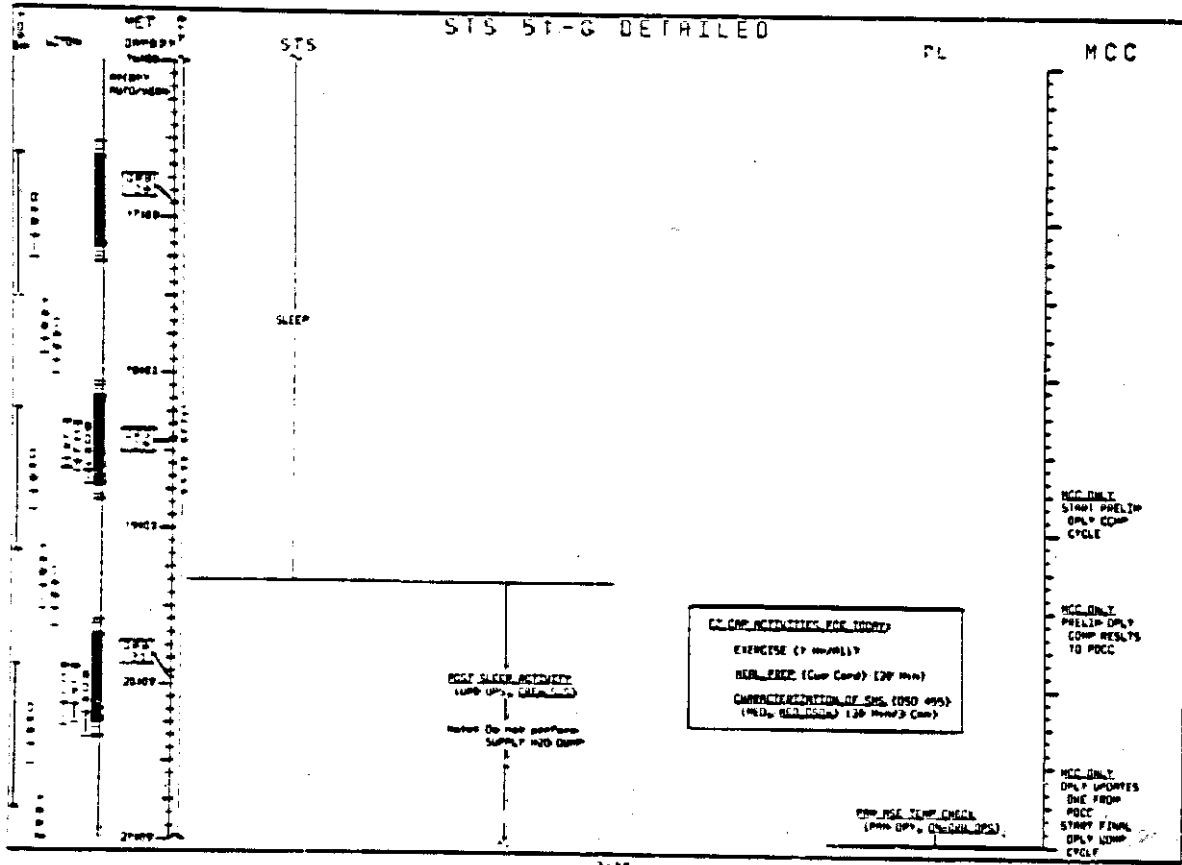


SLEEP

STS 51-G DETAILED

PL

MCC



STS ST-G DETAILED

STS

PL

MCC

SEQUENCE STEP 2
(PL OPS, SEBRINA)

000000 REP LTS - OFF

PRE SLEEP ACTIVITY
(LTD OPS, GRAM, SES)

Notes: Do not perform
SUPPLY AND JUMP

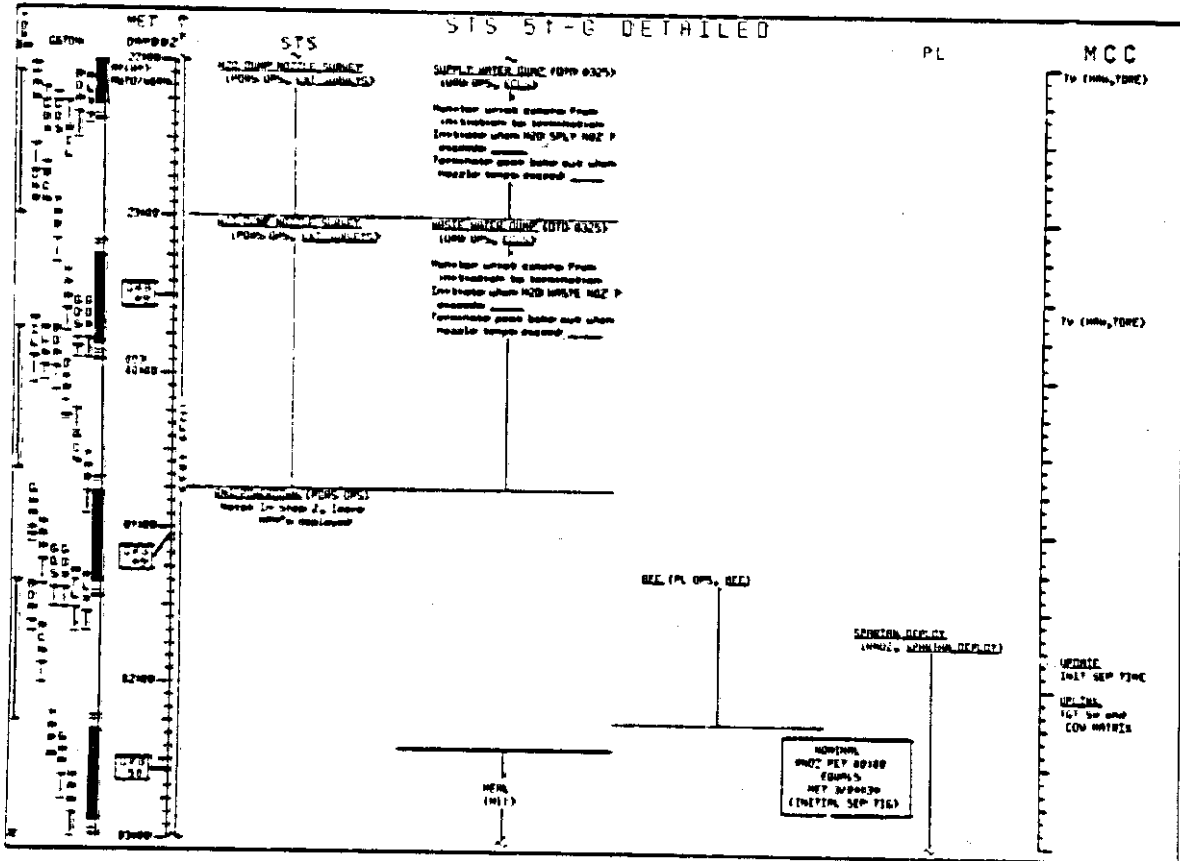
SLEEP

TIME/BLK/LOC	
REQ ID#	
01	PRE EOP
REQ#	
OP ()	() () () ()
AP ()	() () () ()
AP ()	() () () ()
EXECUTION TIME	

STS ST-G DETAILED

PL

MCC



STS 51-G DETAILED

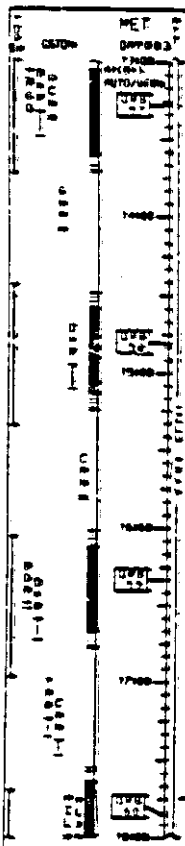
PL

MCC

STS

SLEEP

DO NOT SLEEP AGAINST
LOW OXY. WARNING



STS 51-G DETAILED

PL

MCC

MET

DAY 02

23100

A1(1)

AUTO/VERN

UVB
6.4

40

0000

01100

UVB
6.5

02100

03100

UVB
6.6

04100

STS

NOZ NOZZLE SURVEY
(PDRS OPS, LAL SURVEYS)

SUPPLY WATER BUMP (D10 0325)
(048 OPS, 04LS)

Monitor orist camera from
initiation to termination
[include when ASD SPLY NOZ T
exceeds _____
Terminate post hole out when
nozzle temps exceed _____

CC-10000000
(PDRS OPS, ENG, PDRIN)
MMA (100) 00000000
16=2 Buz=3 DM=278
A/M/O/VERN Inst 18x

MEMO
(11)

CC-10000000
(PDRS OPS, ENG, PDRIN)

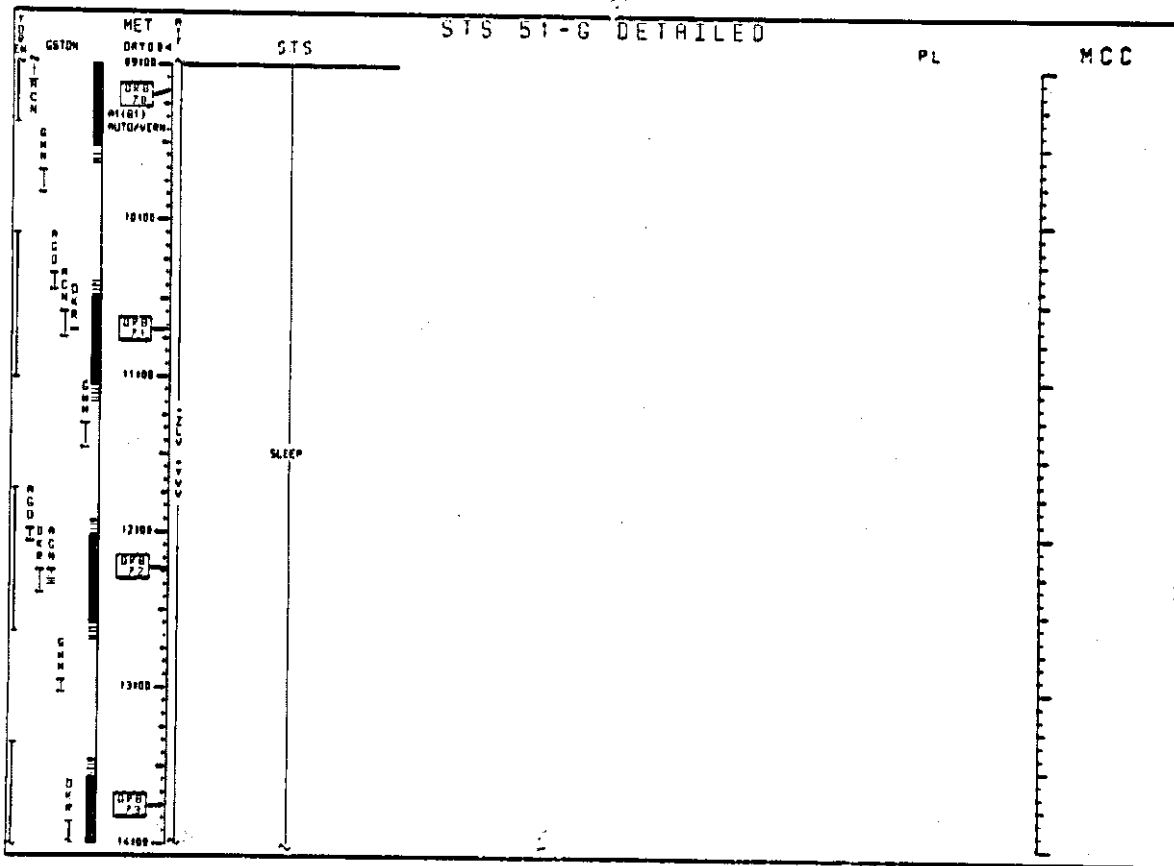
CC-10000000
(PDRS OPS, ENG, PDRIN)

CC-10000000
(PDRS OPS, ENG, PDRIN)

CC-10000000
(PDRS OPS, ENG, PDRIN)

TV (100)
(D10 ONTL-D10)

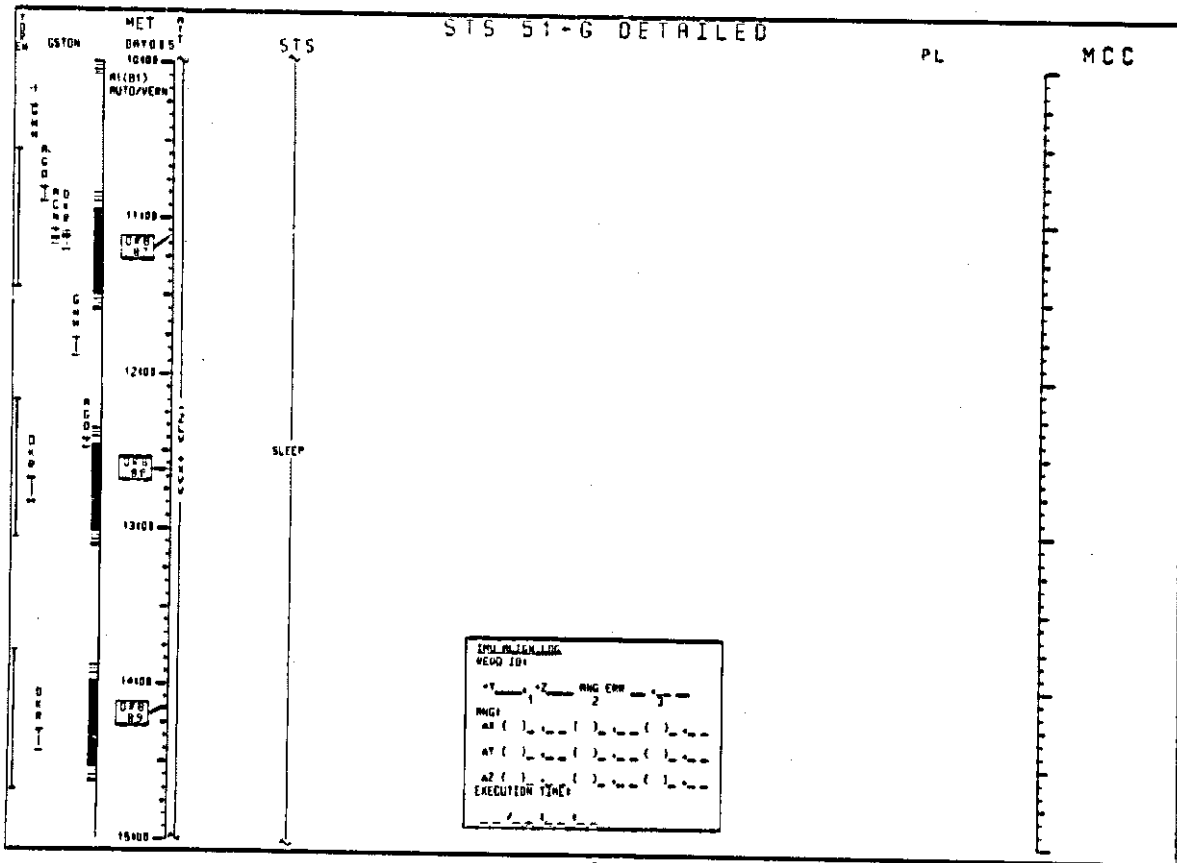
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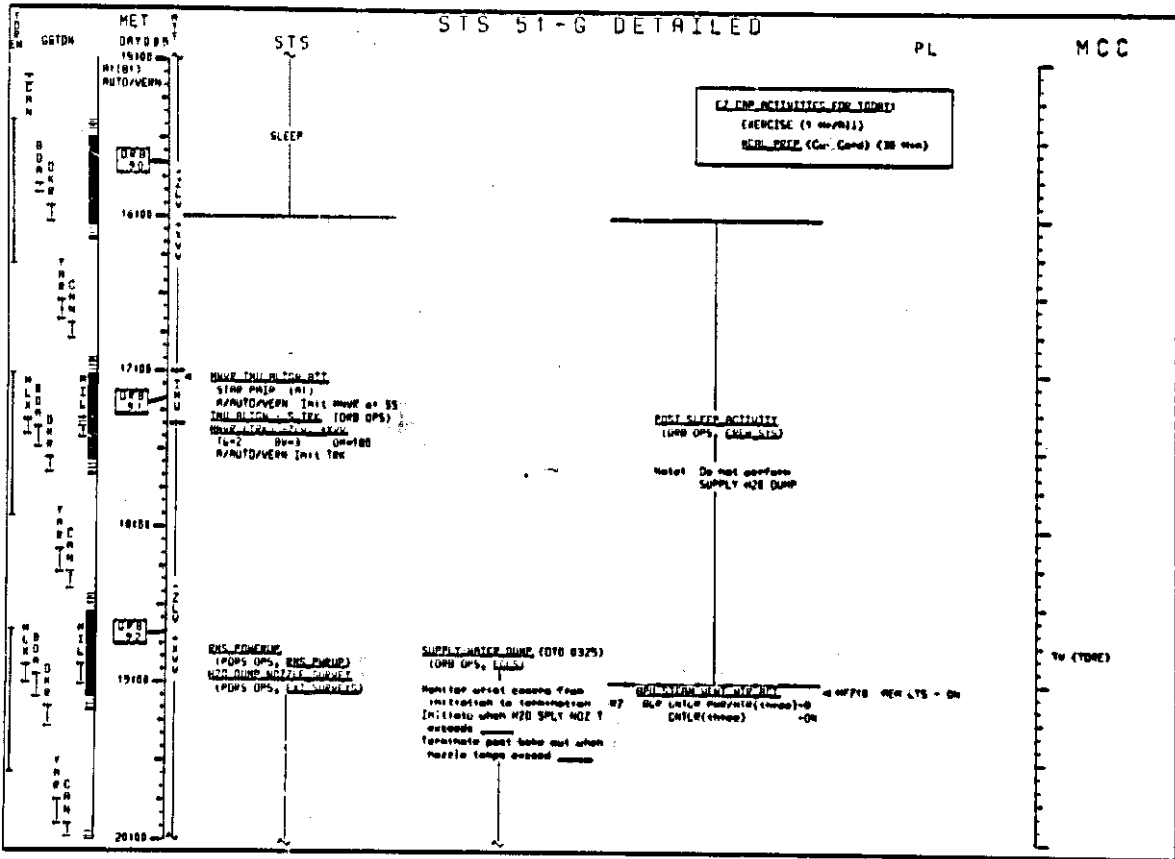
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PL

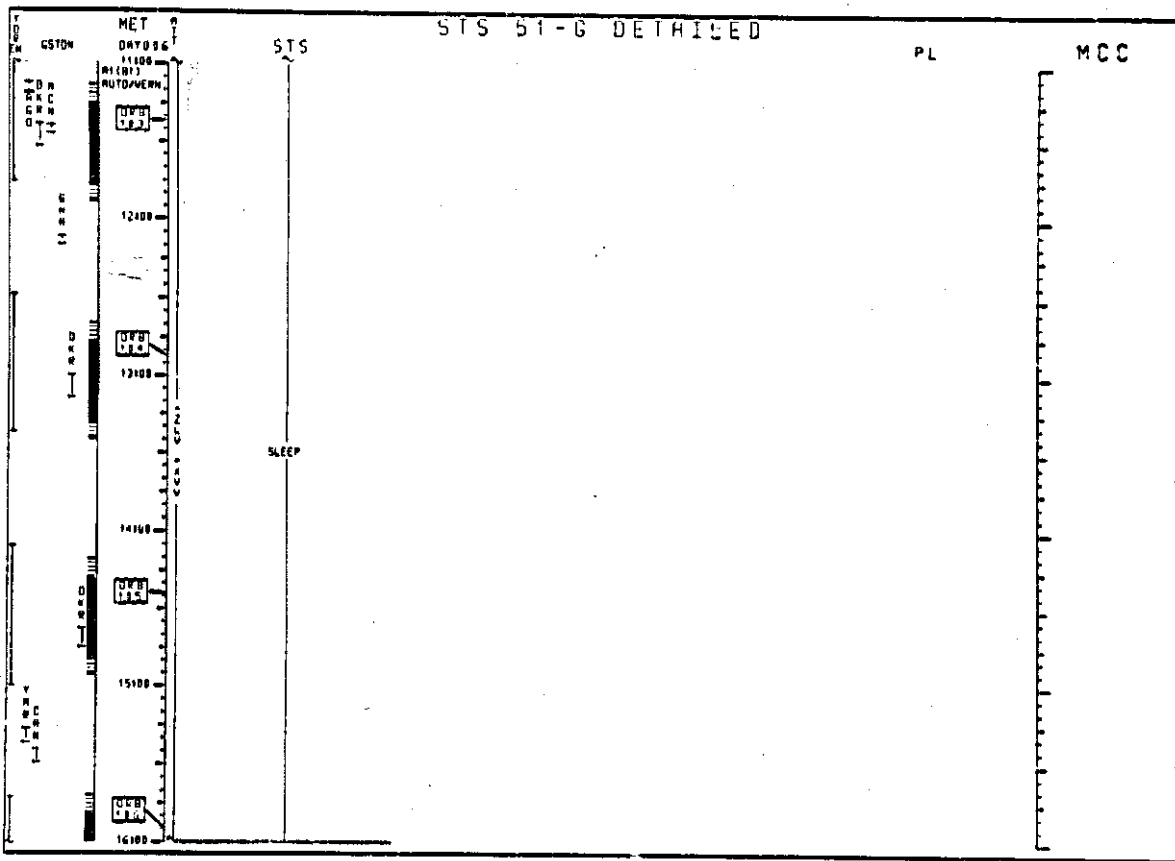
MCC



STS 51-G DETAILED



STS 51-G DETAILED



CONTINGENCY TIMELINES

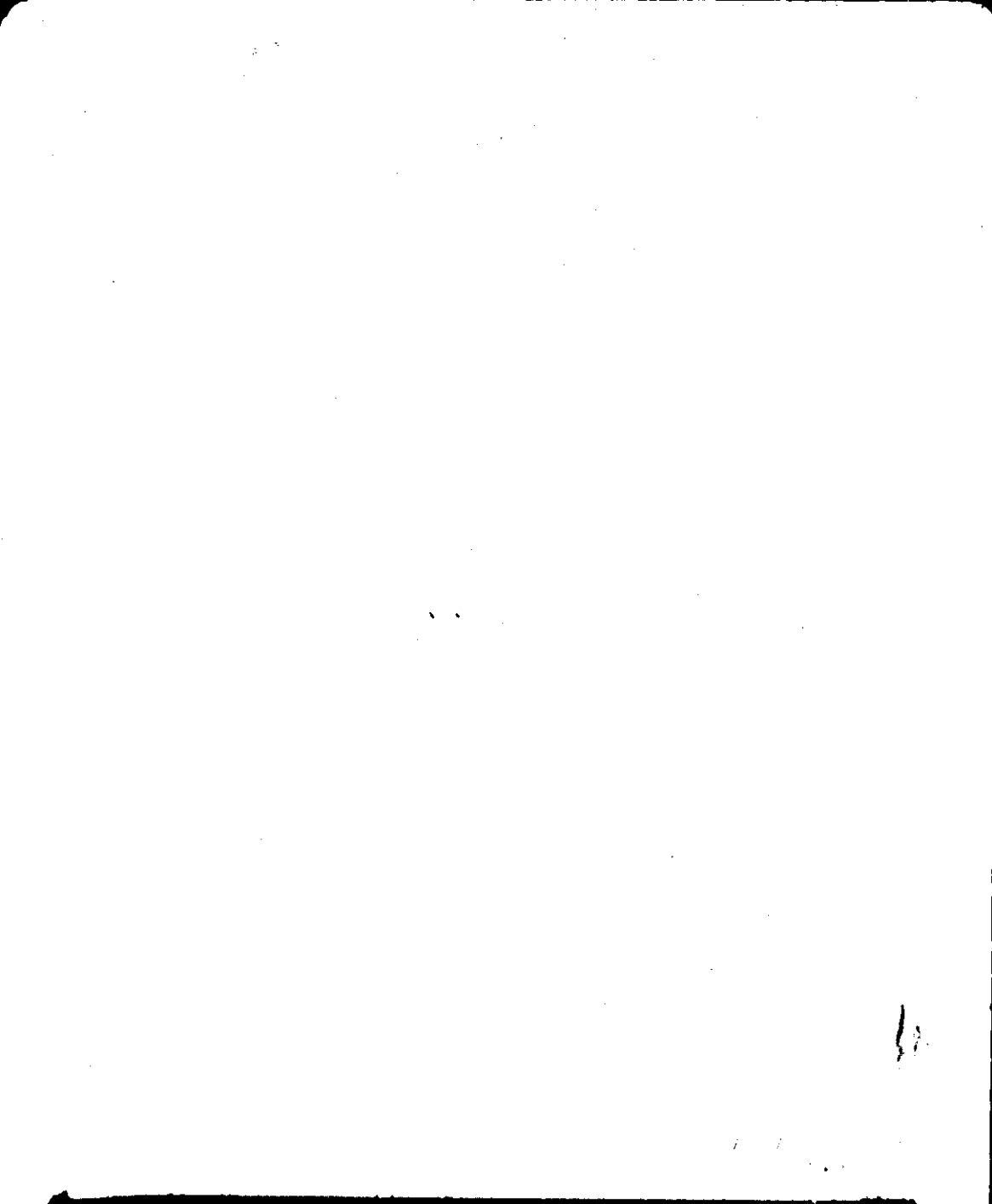
CONTINGENCY
TIMELINES

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CONTINGENCY
TIMELINES

HIGH PRIORITY MISSION
(TBS)

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CONSUMABLES CURVES
(TBS)

CONSUMABLES
CURVES

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CONSOMABLES
CURVES

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

STS 51-G DAP BOOK

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

DAP BOOK

DAP A CONFIGURATIONS

	A1*	A2	A3	A4	A5	A6	A7	A9	A10
TRANSLATION									
PULSE ft/sec	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.10	0.05
ROTATION									
DSC RT NORM %/sec	0.200	0.400	0.200	0.200	0.200	0.200	0.100	0.200	0.200
VERM %/sec	0.200	0.400	0.200	0.008	0.200	0.200	0.008	0.200	0.200
PULSE NORM %/sec	0.10	0.10	0.30	0.10	0.10	0.10	0.10	0.10	0.10
VERM %/sec	0.010	0.010	0.010	0.010	0.050	0.010	0.010	0.010	0.010
COMP NORM %/sec	.00	.00	.00	.00	.00	.00	.00	.00	.00
VERM %/sec	.000	.000	.000	.000	.000	.000	.000	.000	.000
DEADBAND									
ATT NORM (deg)	5.00	1.00	5.00	1.00	5.00	5.00	1.00	2.00	2.00
VERM (deg)	1.000	1.000	1.000	0.070	1.000	1.000	0.500	1.000	1.000
RATE NORM %/sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERM %/sec	.020	.020	.020	.010	.020	.020	.010	.020	.020
JET OPT									
P	1	1	3	1	1	3	3	1	1
Y	1	1	3	3	1	3	3	1	1
ENTL ACCEL									
	0	0	0	0	0	0	2	0	0

*1-LOADED OPS-2 DAP Configuration

DAP B CONFIGURATIONS

	B1*	B2	B3	B4	B5	B6	B7
TRANSLATION							
PULSE ft/sec	0.02	0.02	0.02	0.02	0.02	0.05	0.01
ROTATION							
DSC RT NORM %/sec	0.500	0.200	0.200	0.200	0.200	0.500	0.200
VERM %/sec	0.200	0.200	0.200	0.008	0.016	0.200	0.200
PULSE NORM %/sec	0.04	0.04	0.04	0.04	0.04	0.04	0.04
VERM %/sec	0.002	0.002	0.002	0.002	0.002	0.002	0.002
COMP NORM %/sec	.00	.00	.00	.00	.00	.00	.00
VERM %/sec	.000	.000	.000	.000	.000	.000	.000
DEADBAND							
ATT NORM (deg)	3.00	3.00	3.00	0.30	3.00	2.00	2.00
VERM (deg)	1.000	1.000	1.000	0.100	0.033	1.000	1.000
RATE NORM %/sec	0.20	0.20	0.20	0.20	0.20	0.20	0.20
VERM %/sec	.020	.020	.020	.010	.020	.020	.020
JET OPT							
P	1	3	1	1	3	1	1
Y	1	3	1	3	3	1	1
ENL ACCEL							
	0	0	0	0	0	0	0

*1-LOADED OPS-2 DAP Configuration

TOP
FRONT COVER "DAP BOOK"

DAP BOOK

HOOK
VELCRO

CAP/SI-G/O/BAS

UNIV. PTG	
TGT ID #	1 Orbiting Vehicle
	2 Earth ctr
	3 Earth tgt
	Input LAT (+90)
	LON (+180, ° East)
	ALF (+20000, 0)
	(-3442, 0)
	4 Sun ctr
	5 Celestial tgt
	Input RA (0-359.99)
	DEC (+90)
	11-110 War Stars
BODY VECT #	1 0°
	2 -30°
	3 -60°
	4 PTC (-2° below +33°
	5 Optional
	Input P (0-359.99)
	P (270-359.99, 0-90)
Input OH #	OH (0-359.99)
MCN Axis #	1 X
	2 Y
	3 Z

CAP/SI-G/O/BAS

RPO DAP CONFIG			
CRTR ACCEL #	0 Orbiter alone	JET ON #	Normal
	1 SPARTAN at high		Rose only
	2 SPARTAN at mid bay		Fall only
	3 SPARTAN overhead		

TOP
BACK OF FRONT COVER
"DAP BOOK"

TOP

GAP PURPOSE

- A1 - NOMINAL
IMU ALIGN
LOSS OF YERN
- A2 - PTC
- A3 - RES NOT FIRE
- A4 - GG
- A5 - IMU ALIGN (ROTATING)
- A6 - LOSS OF YERN
(TAIL ONLY)
- A7 - SPARTAN RELEASE
- A9 - RENDEZVOUS
- A10 - PROX OPS
- A11 - (Blank)

CAP/SI-G/O/BAS

A1

TOP

DAPA1

PURPOSE:

- NOMINAL
- IMU ALIGN
- LOSS OF YERN
- (NOSE & TAIL)

A1

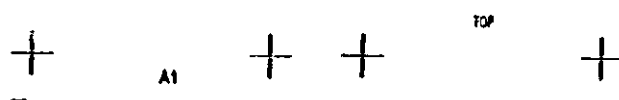
0-1 0	1	TRANSLATION PULSE	
0-1 0	2	ROTATION	
0-1 0	3	DSC RT	NORM
0-1 0	4		VERN
0-1 0	5	PULSE	NORM
0-1 0	6		VERN
0-1 0	7	COMP	NORM
0-1 0	7		VERN
0-1 0	8	DEADBAND	
0-1 0	9	ATT	NORM
0-1 0	9		VERN
0-1 0	10	RATE	NORM
0-1 0	11		VERN
0-1 0	12	JET OPT	P
0-1 0	13		V
0-1 0	14	ENTL ACCEL	

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

A2

TOP



A1

DAP A2

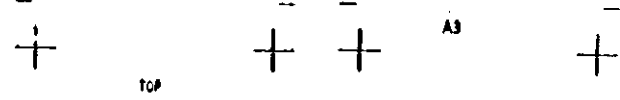
PURPOSE:
PTC

A2

0-1 0 1	TRANSLATION
	PULSE
0-1 0 1	ROTATION
	BSC RT NORM
	VERN
0-1 0 1	PULSE
	NORM
	VERN
0-1 0 1	COMP
	NORM
	VERN
0-1 0 1	DEADBAND
	ATT
	NORM
	VERN
0-1 0 1	RATE
	10 NORM
	11 VERN
0-1 0 1	JET OPT
	12 P
	13 Y
0-1 0 1	ENTL ACCEL
	14

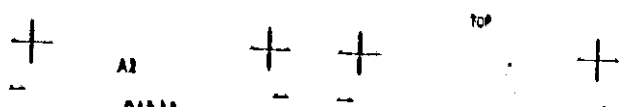
CAP/51-6/O/BAS

CAP/51-6/O/BAS



TOP

A3



A2

DAP A3

PURPOSE:
RCS NOT FIRE

A3

0-1 0 1	TRANSLATION
	PULSE
0-1 0 1	ROTATION
	BSC RT NORM
	VERN
0-1 0 1	PULSE
	NORM
	VERN
0-1 0 1	COMP
	NORM
	VERN
0-1 0 1	DEADBAND
	ATT
	NORM
	VERN
0-1 0 1	RATE
	10 NORM
	11 VERN
0-1 0 1	JET OPT
	12 P
	13 Y
0-1 0 1	ENTL ACCEL
	14

CAP/51-6/O/BAS

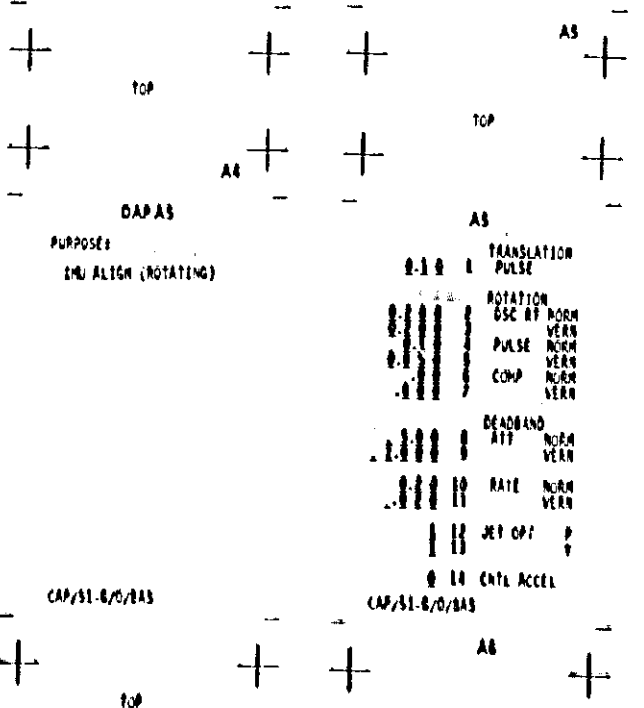
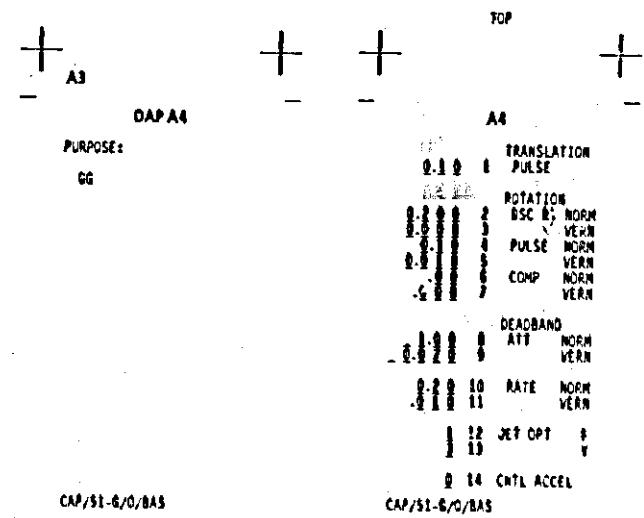
CAP/51-6/O/BAS



TOP

A4

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TOP

AS

OAP 45

PURPOSE:
LOSS OF VERN
(TAIL ONLY)

A6

0-1 0	1	TRANSLATION	
		PULSE	
0-1 0	2	ROTATION	
0-1 0		BSC RT	NORM
0-1 0			VERN
0-1 0	4	PULSE	NORM
0-1 0			VERN
0-1 0	6	COMP	NORM
0-1 0			VERN
0-1 0	8	DEADBAND	
0-1 0		ATT	NORM
0-1 0			VERN
0-1 0	10	RATE	NORM
0-1 0			VERN
0-1 0	12	JET OPT	P
0-1 0			V
0-1 0	13		
0-1 0	14	CNTL ACCEL	

CAP/SI-R/O/BAS

CAP/SI-G/O/BAS

A7

TOP

TOP

A8

OAP A7

PURPOSE:
SPARTAN RELEASE

A9

0-1 0	1	TRANSLATION	
		PULSE	
0-1 0	2	ROTATION	
0-1 0		BSC RT	NORM
0-1 0			VERN
0-1 0	4	PULSE	NORM
0-1 0			VERN
0-1 0	6	COMP	NORM
0-1 0			VERN
0-1 0	8	DEADBAND	
0-1 0		ATT	NORM
0-1 0			VERN
0-1 0	10	RATE	NORM
0-1 0			VERN
0-1 0	12	JET OPT	P
0-1 0			V
0-1 0	13		
0-1 0	14	CNTL ACCEL	

CAP/SI-R/O/BAS

CAP/SI-R/O/BAS

A9

TOP

(reduced copy)

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A7

+

+

TOP

+

DAPA9

PURPOSE:
RENDEZVOUS

A9

0-1-0	1	TRANSLATION	
		PULSE	
0-1-0	2	ROTATION	
0-1-0	3	DSC RT	NORM
0-1-0	4		VERN
0-1-0	5	PULSE	NORM
0-1-0	6		VERN
0-1-0	7	COMP	NORM
			VERN
0-1-0	8	DEADBAND	
0-1-0	9	ATT	NORM
			VERN
0-1-0	10	PATE	NORM
0-1-0	11		VERN
1	12	JET OPS	P
1	13		V
0	14	ENTL ACCEL	

CAP/51-8/0/BAS

CAP/51-8/0/BAS

+

+

+

A10

+

TOP

TOP

+

A8

+

+

+

DAPA10

PURPOSE:
PROR OPS

A10

0-0-0	1	TRANSLATION	
		PULSE	
0-0-0	2	ROTATION	
0-0-0	3	DSC RT	NORM
0-0-0	4		VERN
0-0-0	5	PULSE	NORM
0-0-0	6		VERN
0-0-0	7	COMP	NORM
			VERN
0-1-0	8	DEADBAND	
0-1-0	9	ATT	NORM
			VERN
0-0-0	10	PATE	NORM
0-0-0	11		VERN
1	12	JET OPS	P
1	13		V
0	14	ENTL ACCEL	

CAP/51-8/3/BAS

CAP/51-8/0/BAS

+

+

+

A11

+

TOP

A10
OAP A11
PURPOSEs (Blank)

TOP

A11
TRANSLATION
PULSE
1
ROTATION
2 DSC RE NORM
3 YERN
4 PULSE NORM
5 YERN
6 COMP NORM
7 YERN
DEADBAND
8 ATT NORM
9 YERN
10 RATE NORM
11 YERN
12 JET OPT P
13 Y
14 CNTL ACCEL

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

TOP

TOP

A11

CAP PURPOSE
01 - NOMINAL
PACS EMU ALIGN
ONS B ACS BURNS
02 - LOSS OF YERN
(TAIL ONLY)
03 - LOSS OF YERNs
ON PWR
04 - PAP DEPLOY
FRISBER DEPLOY
05 - COAS CAL
06 - RENDEZVOUS
07 - PRACT OPS
08 - (OTHER)

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

01

TOP

TOP

DAP B1

PURPOSE:

NOMINAL
PRCS IMU ALIGN
ONS & RCS BURNS

01

TRANSLATION			
PULSE	15	0.0	2
ROTATION			
DSC RT NORM	16	0.0	0
YERN	17	0.0	0
PULSE NORM	18	0.0	0
YERN	19	0.0	0
COMP NORM	20	0.0	0
YERN	21	0.0	0
DEADBAND			
ATT NORM	22	0.0	0
YERN	23	0.0	0
RATE NORM	24	0.0	0
YERN	25	0.0	0

JET OP?	P 26	1	
	Y 27		
CNTL ACCEL	28	0	

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

02

TOP

TOP

01

DAP B2

PURPOSE:

LOSS OF VER.
(TAIL ONLY)

02

TRANSLATION			
PULSE	15	0.0	2
ROTATION			
DSC RT NORM	16	0.0	0
YERN	17	0.0	0
PULSE NORM	18	0.0	0
YERN	19	0.0	0
COMP NORM	20	0.0	0
YERN	21	0.0	0
DEADBAND			
ATT NORM	22	0.0	0
YERN	23	0.0	0
RATE NORM	24	0.0	0
YERN	25	0.0	0

JET OP?	P 26	1	
	Y 27		
CNTL ACCEL	28	0	

CAP/SI G/O/BAS

CAP/SI G/O/BAS

03

TOP

(revised copy)



82



TOP



OAP 83

PURPOSE:

LOSS OF VERN
(NOSE & TAIL)
GG MNR

TRANSLATION			
PULSE	15	0.0	2
ROTATION			
DSC RT	NORM 16	0.0	0
VERN	17	0.0	0
PULSE	NORM 18	0.0	0
VERN	19	0.0	0
COMP	NORM 20	0.0	0
VERN	21	0.0	0
DEADBAND			
ATT	NORM 22	0.1	0
VERN	23	0.1	0
RATE	NORM 24	0.1	0
VERN	25	0.1	0
JET OPT	P 26		1
	V 27		1
CNTL ACCEL	28		0

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS



TOP



84



TOP



83



84



OAP 84

PURPOSE:

PAN DEPLOY
FRISBEE DEPLOY

TRANSLATION			
PULSE	15	0.0	2
ROTATION			
DSC RT	NORM 16	0.0	0
VERN	17	0.0	0
PULSE	NORM 18	0.0	0
VERN	19	0.0	0
COMP	NORM 20	0.0	0
VERN	21	0.0	0
DEADBAND			
ATT	NORM 22	0.1	0
VERN	23	0.1	0
RATE	NORM 24	0.1	0
VERN	25	0.1	0
JET OPT	P 26		1
	V 27		1
CNTL ACCEL	28		0

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

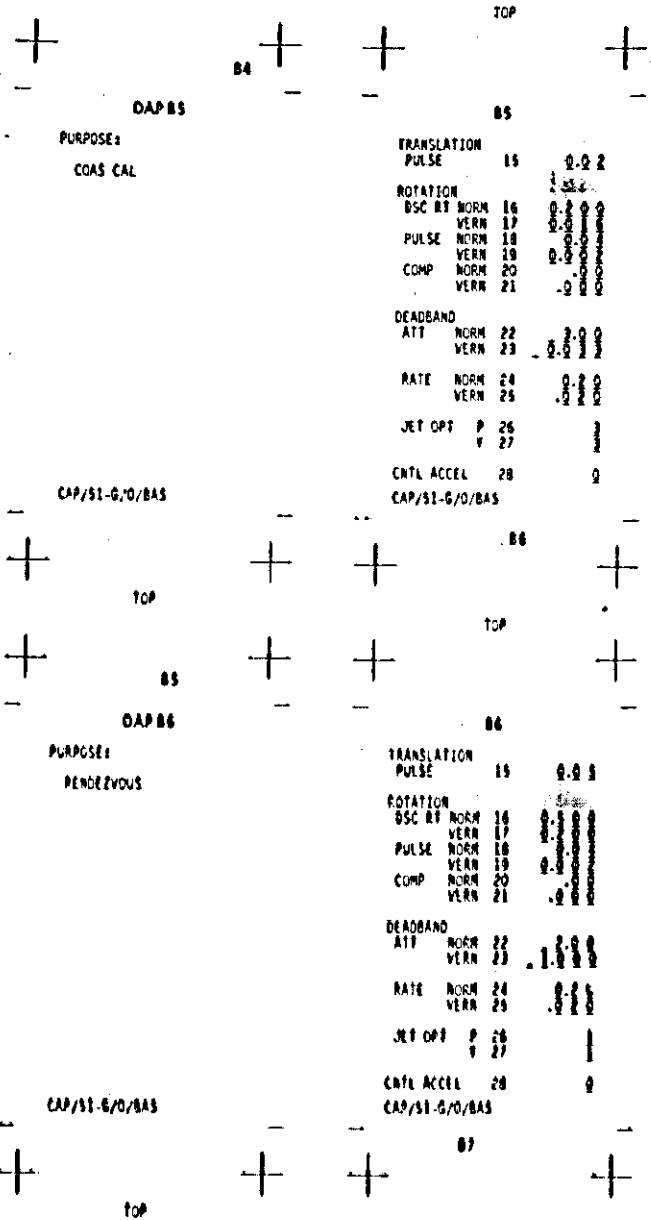


TOP



85





OAP B5

PURPOSE:
COAS CAL

TRANSLATION
PULSE 15 0.0 2

ROTATION
DSC RT NORM 16 0.0
VERN 17 0.0
PULSE NORM 18 0.0
VERN 19 0.0
COMP NORM 20 0.0
VERN 21 0.0

DEADBAND
ATT NORM 22 0.0
VERN 23 0.0

RATE NORM 24 0.0
VERN 25 0.0

JET OPT P 26 1
V 27 1

CNTL ACCEL 28 0

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

TOP

B5

OAP B6

PURPOSE:
RENDEZVOUS

TRANSLATION
PULSE 15 0.0 3

ROTATION
DSC RT NORM 16 0.0
VERN 17 0.0
PULSE NORM 18 0.0
VERN 19 0.0
COMP NORM 20 0.0
VERN 21 0.0

DEADBAND
ATT NORM 22 0.0
VERN 23 0.0

RATE NORM 24 0.0
VERN 25 0.0

JET OPT P 26 1
V 27 1

CNTL ACCEL 28 0

CAP/SI-G/O/BAS

CAP/SI-G/O/BAS

TOP

B7



B6



TOP



CAP B7

PURPOSE:
PRGX OPS

TRANSLATION			
PULSE	15	0.0	1
ROTATION			
BSC RT	NORM 16	0.0	0
	VERN 17	0.0	0
PULSE	NORM 18	0.0	0
	VERN 19	0.0	0
COMP	NORM 20	0.0	0
	VERN 21	0.0	0

DEADBAND			
ATT	NORM 22	0.0	0
	VERN 23	0.0	0

RATE	NORM 24	0.0	0
	VERN 25	0.0	0

JET OPT	P 26		
	V 27		

CNTL ACCEL 28 0

CAP/S1-G/O/BAS

CAP/S1-G/O/BAS



TOP



B8



B7

CAP B8

PURPOSE: (B1a-B)

TRANSLATION			
PULSE	15	0.0	1
ROTATION			
BSC RT	NORM 16	0.0	0
	VERN 17	0.0	0
PULSE	NORM 18	0.0	0
	VERN 19	0.0	0
COMP	NORM 20	0.0	0
	VERN 21	0.0	0

DEADBAND			
ATT	NORM 22	0.0	0
	VERN 23	0.0	0

RATE	NORM 24	0.0	0
	VERN 25	0.0	0

JET OPT	P 26		
	V 27		

CNTL ACCEL 28 0

CAP/S1-G/O/BAS

CAP/S1-G/O/BAS



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— CAP/51-6/0/BAS



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BACK COVER "GAP BOOK"



— CAP/51-6/0/BAS



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Flight Data File Crew Activity Plan STS 51-G

Mission Operations Directorate
Operations Division

Preliminary
October 15, 1984

EVENT:	GOT		
Launch	06:23	Thu	May 30
MORELOS Deploy	14:21	Thu	May 30
ARABSAT Deploy	09:58	Fri	May 31
TELSTAR Deploy	05:33	Sat	Jun 1
SPARTAN Deploy	11:24	Sun	Jun 2
SPARTAN Rendezvous	07:33	Tue	Jun 4
Crew Conference	05:53	Wed	Jun 5
KSC Landing	06:40	Thu	Jun 6

NASA

National Aeronautics and
Space Administration

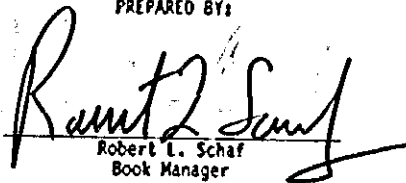
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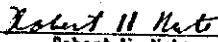
STS 51-G CREW ACTIVITY PLAN

PRELIMINARY
October 15, 1984

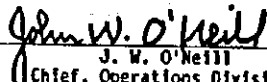
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ACKNOWLEDGMENTS

The following individuals contributed significantly to preparing the STS 51-G Crew Activity Plan:

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INTRODUCTION

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

The section entitled 'Crew Activity Plan Notes (constraints and guidelines)', included in CAPs for previous flights, has been published as a generic document (not in individual CAPs).

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

The flight profile used for this Crew Activity Plan is for a launch date of May 30, 1985, at 06:23 COT.

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51-G
OVERVIEW

OVERVIEW

FLIGHT		ST-0		EDITION		PRELIMINARY		PUB. DATE		18/15/80	
FD 1											
NOTES: DMS 21 160 & 160											
FD 2	SLEEP										
NOTES: DMS 21 160 & 160											
FD 3	SLEEP										
NOTES: DMS 21 160 & 160											
FD 4	SLEEP										
NOTES: DMS 21 160 & 160											
FD 5	SLEEP										
NOTES: DMS 21 160 & 160											

FLIGHT		EDITION		PUB. DATE	
FD 6		SLEEP		SLEEP	
POST SLEEP ACT		IMU		SLEEP	
IMU		REMOZIOUS		SLEEP	
MC2		TE		SLEEP	
		VAMP		SLEEP	
		GAMBLE		SLEEP	
				SLEEP	
NOTES:					
FD 7		SLEEP		SLEEP	
POST SLEEP ACT		IMU		SLEEP	
APE		FCB C/D		SLEEP	
		HEAL		SLEEP	
		ENGIN STON		SLEEP	
		IMU		SLEEP	
		APE SLEEP ACT		SLEEP	
NOTES:		* REC NOT FEEL		* ENGIN B/F REC DID NOT DEN.	
FD 8		SLEEP		SLEEP	
POST SLEEP ACT		IMU		SLEEP	
POST SLEEP ACT		DEORBIT PREP		SLEEP	
IMU		C/E		SLEEP	
		N/S/ASC		SLEEP	
NOTES:					
NOTES:					
NOTES:					
NOTES:					

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SUMMARY
TIMELINE

SUMMARY TIMELINE

GP#	(DIMENS)	NET	(DIMENS)	CDT	(DIMENS)	FD/ DAY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
									SEP 25 1965	52-1	PROLETARIAT	10/15/65
CDT	15	20	21	22	23	24	25	26	27	28	29	30
NET	15	20	21	22	23	24	25	26	27	28	29	30
STS				SLEEP								
									POST SLEEP NET			
										TELESTAR	CCPOLON	
PL												
CDT	25	26	27	28	29	30	31	32				
CDRAGE	-REG	-REG	-REG	-REG	-REG	-REG	-REG	-REG	-REG	-REG	-REG	-REG
FD/ DAY												
NOTES												

GMT (020000Z)	MET (020000Z)	CDT (020000Z)	BD/DOY	BEFN	MOON	HOUSTON DATE	FLIGHT	EDITION	HUB, DATE
CDT 0200	MET 0200		02/ 02 000	22.0		JUNY 2, 1965	21-6	WELLINGTON	020000Z
<p>15 20 25 22 20 17 14 11 8 5 2</p> <p>15 12 10 7 4 1 21 22 23</p>									
STS	SLEEP						1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	DEF DPT DTG 000	
						POST SLEEP ACT			
PL									
<p>01 02 03 04 05 06 07 08</p> <p>ASPH CORROSION</p> <p>01 02 03 04 05 06 07 08</p> <p>01 02 03 04 05 06 07 08</p>									
NOTES:									

GMT	(DZ0500Z)	NET	(DZ0500Z)	CDT	(DZ0500Z)	FDZ DDY	BEYD	MOON	HOUSTON DATE	FLIGHT	EDITION	SUB. DATE
								☉	NOV 7, 1966	11-5	001101000	10/11/66
CDT 0500	19	20	21	22	23	24	25	26	27	28	29	30
NET 0500	12	13	14	15	16	17	18	19	20	21	22	23
STS			SLEEP						NEED S.P. NEED S.P. NEED S.P. NEED S.P. NEED S.P.			
PL												
57	58	59	60	61	62	63	64					
COVERAGE												
FDNS												
NOTES												

GMT	(DIMEN)	NET	(DIMEN)	NET	(DIMEN)	PD/DOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE																															
						01/20/68	00.0	☉	JUNE 3, 1968	00-0	NOVEMBER	1974/00																															
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GMT (DINEM)	MET (DINEM)	COY (DINEM)	PO/JOY	BETA	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE
			27.7		☉	1966	11-8	HOUSTON	10/19/66
COY 0000									
MET 0000									
SFS	WOLVING		SLEEP 8:30 WAKE 8:30					SLEP	
								PRE SLEEP ACT	
			8:30-8:45 8:45-9:00						
PL	WOLVING		WE						
0007	00	01	02	03	04	05	06	07	08
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
0000	0000	0000	0000	0000	0000	0000	0000	0000	0000
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NOTES:									

GWP (L10000)	NET (D10000)	CDT (D10000)	FDZ (D10000)	BFTB (D10000)	MOON	HOUSTON DATE	FLIGHT	EDITION	PUB. DATE	
						MAY 5 1995	01-8	HOUSTON	10/25/90	
CDT 0000	5	10	15	20	25	30	35	40	45	
NET 0000	1	2	3	4	5	6	7	8	9	
SPS	NET	CDT STN					L I B R A R Y		SLEEP	
						PRE SLEEP NET				
PL										
	96	97	98	99	100	101	102	103	104	
SSPBN										
COVERAGE										
NOTES:	© 1995 © 1995 GPO AND NEWSPRINT									

GMT (DINIM)	MET (DINIM)	CDT (DINIM)	FDZ DDT	AFIR	MOON	HOUSTON DATE	FLIGHT	FDITON	OBJ. DNTY
15P1114Z	15P231Z	15P112Z	15P156Z	15P184Z	000	JUNE 8, 1965	51-E	100150000	100150000
CDT 1187	FD 1 08								
MET 1357									
STS									
PL									
ESTD COVERAGE	112	113	114	115	116	117	118	119	
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Manager
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LP/Manager
Support (3)
LT/Manager
MD/Manager (1)
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MD3/Chief (2)
ME/Manager (2)
ME3/Manager
ME4/Manager (2)
ME/Manager (2)
MP/Manager (2)
MP2/CPCB Rep (8)
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MS3/Support

MS3/Support
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Asst. Director
FD2/Support
FE/Chief
FH/Chief
Asst. Chief
Payloads & Adv. Tech Mgr.
FM17/Support
FM2/Chief
Support (16)
FM4/Chief
Support (5)
FM5/Chief (2)
FM6/Chief (8)
Support (6)
Inometrics
FM4/Support
FM5/Support
FM6/Support (2)
GDSM (2)

FM5/Documentation
J/Chief (2)
A15/Support (6)
LAJ/Program Mgr.
Dep. Mgr.
LA3/Manager
Tech. Assent (3)
LA5/Manager
LA6/Manager
LA7/Support
LE/Support
LF/Support
Manager
LI/Support
LM/Manager
Support (4)
LN/Support (2)
LP/Manager
Support (3)
LT/Manager
MD/Manager (1)
MD2/Support
MD3/Chief (2)
ME/Manager (2)
ME3/Manager
ME4/Manager (2)
ME/Manager (2)
MP/Manager (2)
MP2/CPCB Rep (8)
MS2/Chief
MS3/Support
MS3/Support
Mission Scientist
SK/Manager, SSEOP
SA3/Support
SP22/Support
ZK2/AFTEC
ZK-1/MAJ. T. Spiker (3)*

NASA Headquarters
EM-88. Norbert
MGR-ME. Marklewood
LF-6R. Shaker
LPD-10J. W. McCulla
OTI-OR. Tucker
EBNH. Gustinson

McDonnell Douglas - Houston
A1/P. O'Hall
T. O. Bruchmiller
T. S. French
A2/J. Paris
C2/R. Howland
C3/R. Conson
D3/M. D. Pipher (3)

Singer-Link - Houston
K. Nelson

Kennedy Space Center
CM-CO-3/JAW. A. Fletcher
MDTSCO, C. Adams
NWS-DM/Repository (43)
EX-RTSR, Buckley
SE-GDS-21/W. Patrick
SE-GDS-22/P. Pughart
SE-GDS-23/S. Weiss
SO-TD/C. Monahan
ZK-25/Rockwell Tech Data (14)

TRW - Houston
C. Cooper
L. Pheasant

TRW - Greenbelt
P.O. Box 265
Greenbelt, MD 20770
L. L. Champin (2)

White Sands Test Facility
RD/R. Talbot

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

Orlando Flight Research Facility
OS/G. P. Layton

HO NORDADDOXY
Channahon Mtn. Complex,
CO 80914 (2)

Hamilton Standard
Windsor Locks, CT 06096
1A2/DAL. C. White
1A2-7/F. M. Greenwood (4)

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