

LM FLIGHT PLAN

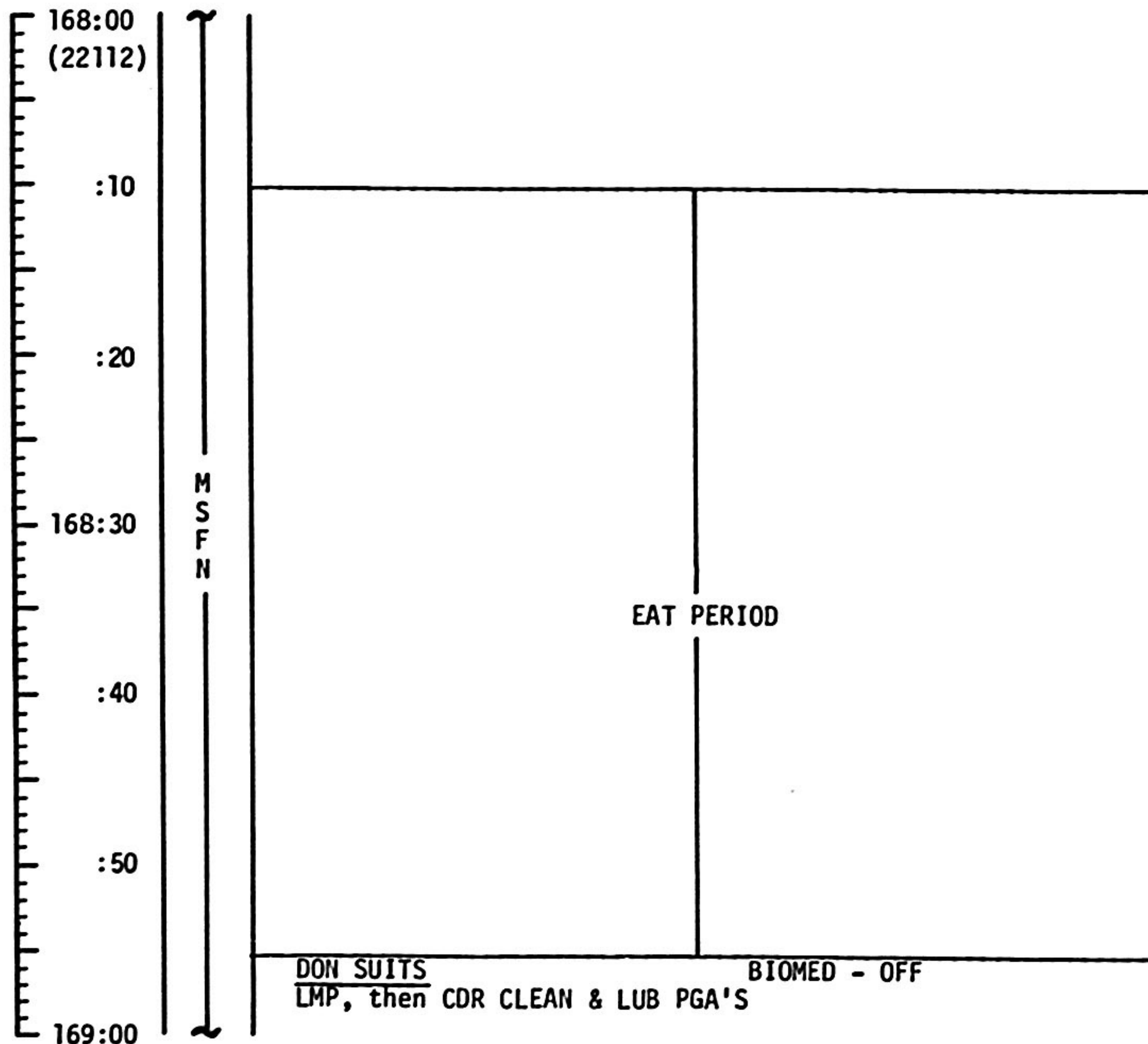
MCC-H

1154 CST

CDR

LMP

NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	168:00 - 169:00	8/48-49	3-256

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

168:00
(P20)
(0.5°DB)

(11111)
(X1111)

168:10

MSFN
N

CREW EXERCISE PERIOD

MSFN CMDS: (AOS +61 MIN)
DSE REWIND
DATA SYS - OFF

168:20

MSFN CMDS: (AOS +68 MIN)
DSE RECORD

168:30

VERIFY DSE TAPE MOTION (LBR/RCD/FWD/CMD RESET)

SIM EXP STATUS
(+0000)
(01214)

168:30
(P20)
(0.5°DB)

(11111)
(X1111)

168:40

PREPARATIONS FOR TRANSFER

INSTALL (1) TSB ON LH LEB & (1) ON RH LEB
REMOVE ROPE BAG FROM DECON BAGS ON TOP OF A2
STOW ROPE IN RH TSB
REMOVE DECON BAG STRAPS FROM TOP OF A2 & HANG ON L3
REMOVE (2) JETTISON BAGS, (1) VACUUM BAG AND VACUUM CABLE FROM A2
STOW EMPTY JETT. BAG, VACUUM BAG & CABLE IN LH TSB
PLACE REMAINING JETT. BAG ON A2 AND LOAD WITH THE FOLLOWING:

- L10H CANS & PARTITIONS FROM A9 (CANISTER 14 IS UNUSED)
- WASTE FOOD BAGS FROM A7
- FECAL BAG (12 PACK) FROM A7
- ELECTROPHORESIS IN BAG FROM A6
- HELMET SHIELD FROM PGA BAG
- USED CMG'S-4 FROM A8
- USED ICG-1 FROM U2
- USED TISSUES, TOWELS AND MISCELLANEOUS WASTE

REMOVE CMG-(3) FROM A8 - STOW IN RH TSB AND VACUUM BRUSH FROM SIDE OF A8
UNSTOW AND ASSEMBLE:

- VACUUM BRUSH - VACUUM CLEANER (SIDE A6)
- POWER CABLE (LH-TSB) AND VACUUM BAG (LH-TSB)

CONNECT CABLE TO VACUUM AND TO PANEL 201
STOW ASSEMBLED VACUUM BETWEEN F2 AND MDC
REMOVE CDR & LMP COVERALLS, AND HSB (3) FROM U2
INSTALL COVERALLS IN RH TSB
INSTALL HSB'S IN LH TSB
REMOVE SPRINGS & CLIPS FROM CLOSEOUT CURTAIN AND INSTALL
REMOVE B5 & B6 CLOSEOUT CURTAIN AND STOW IN RH TSB
REMOVE R12 FROM GIRTH SHELF & STOW
OPEN BOTTOM & TOP OF PGA BAG

168:50

CMC MODE - FREE
P20 OPT 5 (LDMK TRK ATT)(169:15)
N78 (+000.00)
(-068.00)
(+000.00)
N79 (+000.50)
(000,338/346,000) OMNI C
CMC MODE - AUTO

REV 49

CONFIGURE CAMERA: (LDMK TRK)
CM/DAC/SXT/CEX (EXP PAD) 1 fps (7.6% MAG)

MAG (BB) _____, MAG % _____
UTILITY POWER - ON

169:00

SIM EXP STATUS
(+0000)
(01214)

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	3-257

LM FLIGHT PLAN

MCC-H

1254 CST

CDR

LMP

NOTES

169:00
(22112)

DOFF ICG, DON PGA
CONNECT HOSES
VERIFY COMM

:05

:10

169:15

M
S
F
N

:20

:25

169:30

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	169:00 - 169:30	8/49	3-258

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

SIM EXP STATUS
(*0000)
(01214)

169:00
(P20)
(0.5°DB)
(11111)
(X1111)

169:10

169:20

169:30

M
S
F
N

RNDZ XPNDR ACTIVATION AND SELF TEST (DECAL)

RNDZ XPNDR - HTR

113 VALUES
A ~ 2.8
B ~ 2.2 SELF TEST
C ~ 0.3 UNLOCKED
~ 4.9 LOCKED

ACQ MSFN OMNI C

P24 (L/S LDMK F-1)
OPT ZERO - OFF
OPT MODE - CMC

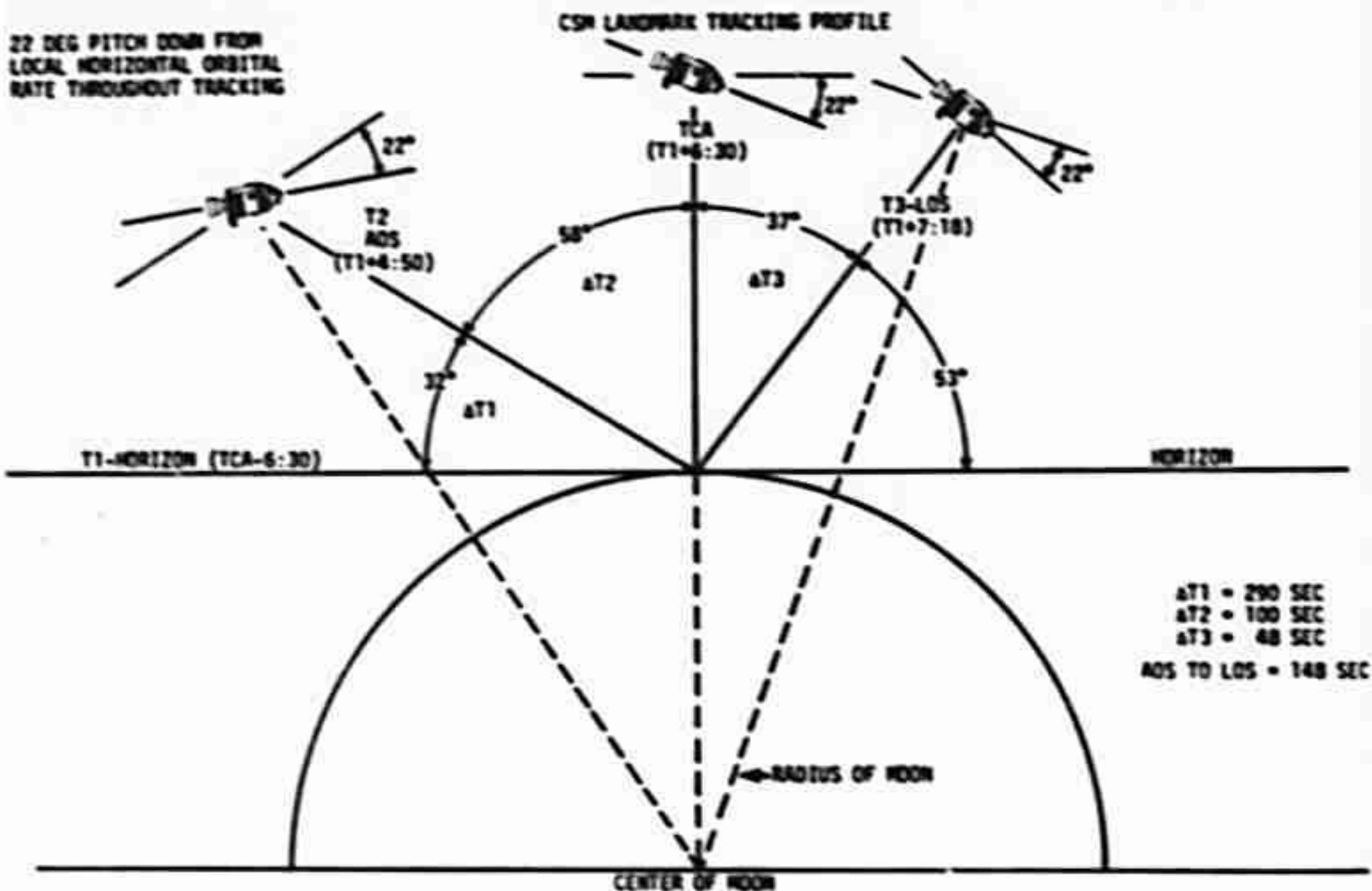
0:00 T1(HORIZON)DET - RESET/START

3:50 - DAC - ON

4:50 - T2(LDMK ACQ) OPT MODE - MAN, TAKE MARKS 10 SEC APART

6:30 - TCA
7:18 - T3(LDMK LOSS) DAC - OFF

CONFIGURE FOR VHF COMM CHECK WITH LM
VHF AM B - DUPLEX
VHF AM - T/R (PANEL 9)
MODE - VOX
VHF ANT - RIGHT
RNDZ XPNDR - PWR



P24 LDMK TRACKING		(1/250)
TGT:	F-1	
T ₁	-----	-----
T ₂	-----	-----
TCA	-----	-----
T ₃	-----	-----
R	----- °P ----- °Y ----- °	(T2 ACQ)
N or S NH	----- / SA ----- TA -----	(T2 ACQ)
N89		
LAT	+01.872	
LONG/2	+44.127	
ALT	000.00	

MCC-H

1324 CST

LM FLIGHT PLAN

CDR

LMP

NOTES

169:30
(22112)

:35

RR - ON
P22 LUNAR SURFACE NAV

:40

BIOMED - LEFT

VHF VOICE CHECK

169:45

RR - OFF
TERMINATE P22

-2:00

M
S
F
N
X

:50

PREP FOR EQUIP JETT #2
REPORT: PRD
STOW HELMET BAG IN JETT BAG
TIE JETT BAG
UNLOCK FWD HATCH HANDLE

:55

HELMET GLOVE DONNING
DON HELMETS & LEVA'S
VERIFY SUIT CONFIGURATION
AUDIO MODE - VOX
DON EV GLOVES

170:00

UPDATE TO LM
ASCENT PADS
CSI PAD
LM DAP WTS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	169:30 - 170:00	8/49	3-260

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

SIM EXP STATUS
 (*0000)
 (01214)

169:30
 (P20)
 (0.5°DB)
 (11111)
 (X1111)
 169:40
 M
 S
 F
 N
 169:50
 (11111)
 (X1111)
 170:00
 (11102)
 (X1111)

P24 (L/S LDMK 16-3)
 OPT ZERO - OFF
 OPT MODE - CMC

0:00 T1(HORIZON)DET - RESET/START
 VHF COMM CHECK WITH LM

3:50 - DAC - ON

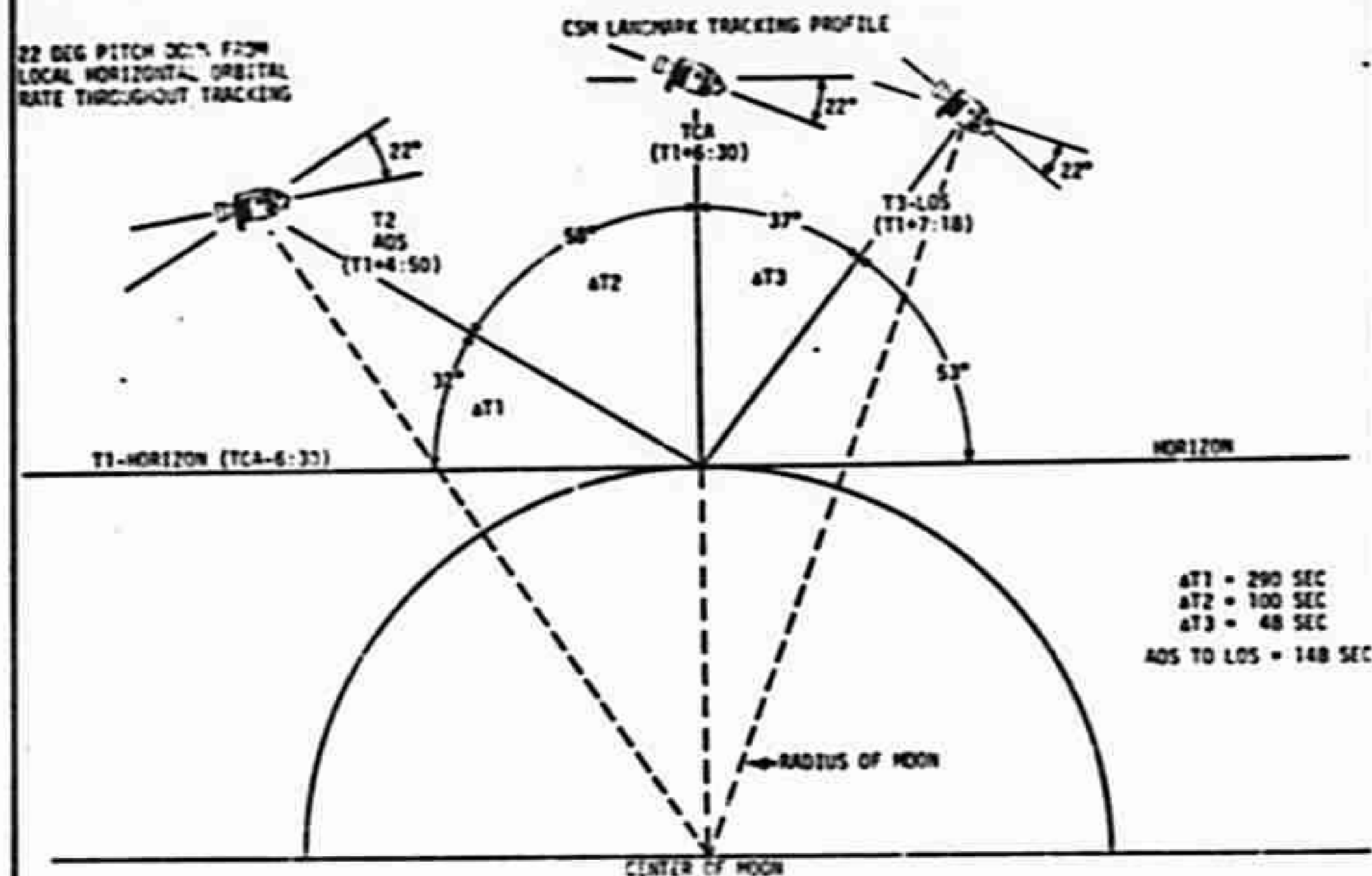
4:50 - T2(LDMK ACQ) OPT MODE - MAN, TAKE MARKS 10 SEC APART

6:30 - TCA
 7:18 - T3(LDMK LOSS) DAC - OFF

POO

VHF AM B - OFF (CTR)
 MODE - INTERCOM/PTT
 RNDZ XPNDR - HTR

CYCLE CMC MODE - FREE/AUTO
 V48 (11102)
 (X1111)
 V49 MNVR TO P52/COAS CAL ATT (170:00)
 (180,258,357) HGA P -76, Y 258



P24 LDMK TRACKING
 TGT: 16-3 (1/250)

T1	_____	_____	_____
T2	_____	_____	_____
TCA	_____	_____	_____
T3	_____	_____	_____
R	_____	*P	*Y

(T2 ACQ)

N or S NM _____ / SA _____ TA _____ (T2 ACQ)

NB9

LAT -09.000
 LONG/2 +07.745
 ALT -000.14

LM FLIGHT PLAN

MCC-H

1354 CST

CDR

LMP

NOTES

170:00
(22112)

:05

PRESSURE INTEGRITY CHECK

:10

CABIN DEPRESS FOR JETTISON

OVHD OR FWD DUMP VALVE - OPEN, THEN AUTO AT 3.5 PSIA

DUMP VALVE - OPEN, VERIFY SUIT PRESS

170:15

HATCH OPENING

JETTISON JETT BAG

CLOSE & LOCK FWD HATCH

M
S
F
N

CABIN REPRESS

CABIN REPRESS - AUTO

VERIFY CABIN PRESS STABLE

DOFF HELMETS & GLOVES

AUDIO MODE - ICS/PTT

:20

CABIN CLEANUP FOR LAUNCH

SECURE OPS ON FLOOR

STOW LEVA BAGS & SECURE

INSTALL ISA

SECURE UTILITY LIGHTS

:25

STOW ALL EVA DATA IN FLIGHT DATA FILE

170:30

-1:15

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	170:00 - 170:30	8/49-50	3-262

FLIGHT PLANNING BRANCH

GO/NO-GO FOR
DEPRESS

CSM FLIGHT PLAN

170:00
(11102)
(x1111)

MSFN UPLINK:
LM S.V. (INS +5)
CSM S.V. (L/O)
RESET SURFACE FLAG

SIM EXP STATUS
(*0000)
(01214)

MSFN UPDATE:
CONSUMABLES STATUS
CSM S.V. (L/O)
LM S.V. (INS +5)
ASCENT PADS AND CSM WEIGHT COPY AT 171:10

MSFN CMDS:
DSE DUMP

170:10

CONFIGURE FOR URINE DUMP
H₂ PURGE LINE HEATERS - ON
P52 (OPTION 3)
(LIFT-OFF ORIENT)
REPORT: GYRO TORQUING ANGLES

P52 IMU REALIGN

N71: _____

N05: _____

N93: _____

X _____

Y _____

Z _____

GET _____

P52 (COAS CALIB)
USE STAR NO. 33

COAS CALIB - N92

SHAFT: _____

TRUN: _____

170:20

POO
GDC ALIGN

CONFIGURE CAMERAS: (DOCKING)
CM2/DAC/18/CEX-BRKT,MIR (TB,1/250,-) 6 fps (40% MAG)

MAG (BB) _____, MAG % _____
UTILITY PWR - ON

MSFN CMDS:
DSE RECORD

VERIFY DSE TAPE MOTION (LBR/RCD/FWD/CMD RESET)

MSFN ENABLES MSFN S-BAND RELAY

H₂ AND O₂ FUEL CELL PURGE
WASTE WATER DUMP
URINE DUMP

170:30

P27 UPDATE

PURP	CSM (L/O)V	LM(INS+5)V
GET	: :	: :
304 01	INDEX	INDEX
02		
03		
04		
05		
06		
07		
10		
11		
12		
13		
14		
15		
16		
17		
20		
21		
22		
23		
24		

MCC-H

1424 CST

LM FLIGHT PLAN

CDR

LMP

NOTES

170:30
(22112)

:35

:40

170:45

:50

:55
(12102)

171:00

M
S
F
N

<p>VERIFY GUIDANCE CONFIGURATION</p> <p>CONFIGURE CB'S FOR L/O PREP</p> <p>CONFIGURE RR</p> <p>V63 RR SELF TEST (IF REQD)</p>	<p>CONFIGURE CB'S FOR L/O PREP</p> <p>AGS STATUS - OPERATE</p> <p>AGS GYRO CALIBRATION</p> <p>LOAD AGS ASCENT TARGETING</p>
<p>RATE GYRO TEST</p> <p>V48 (12102) RCS CHECKOUT</p>	<p>LGC CLOCK SYNC CONFIGURE COMM</p>

-1:15

-1:00

CSM REV 50

-0:50

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	170:30 - 171:00	8/49-50	3-264

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

170:30
(11102)
(X1111)

SIM EXP STATUS
(*0000)
(01214)

CM/EL/80/CEX (f8,1/250,FOCUS) 10 FR

MAG (QQ) _____, FR # _____

CM4/TV-BRKT
(f44,PEAK,-,150MM)

TERMINATE WASTE WATER DUMP AT 10%
H₂ PURGE LINE HTRS - OFF

DON PGA WITHOUT HELMET AND GLOVES

STOW RESCUE BOOK & G&C c/L

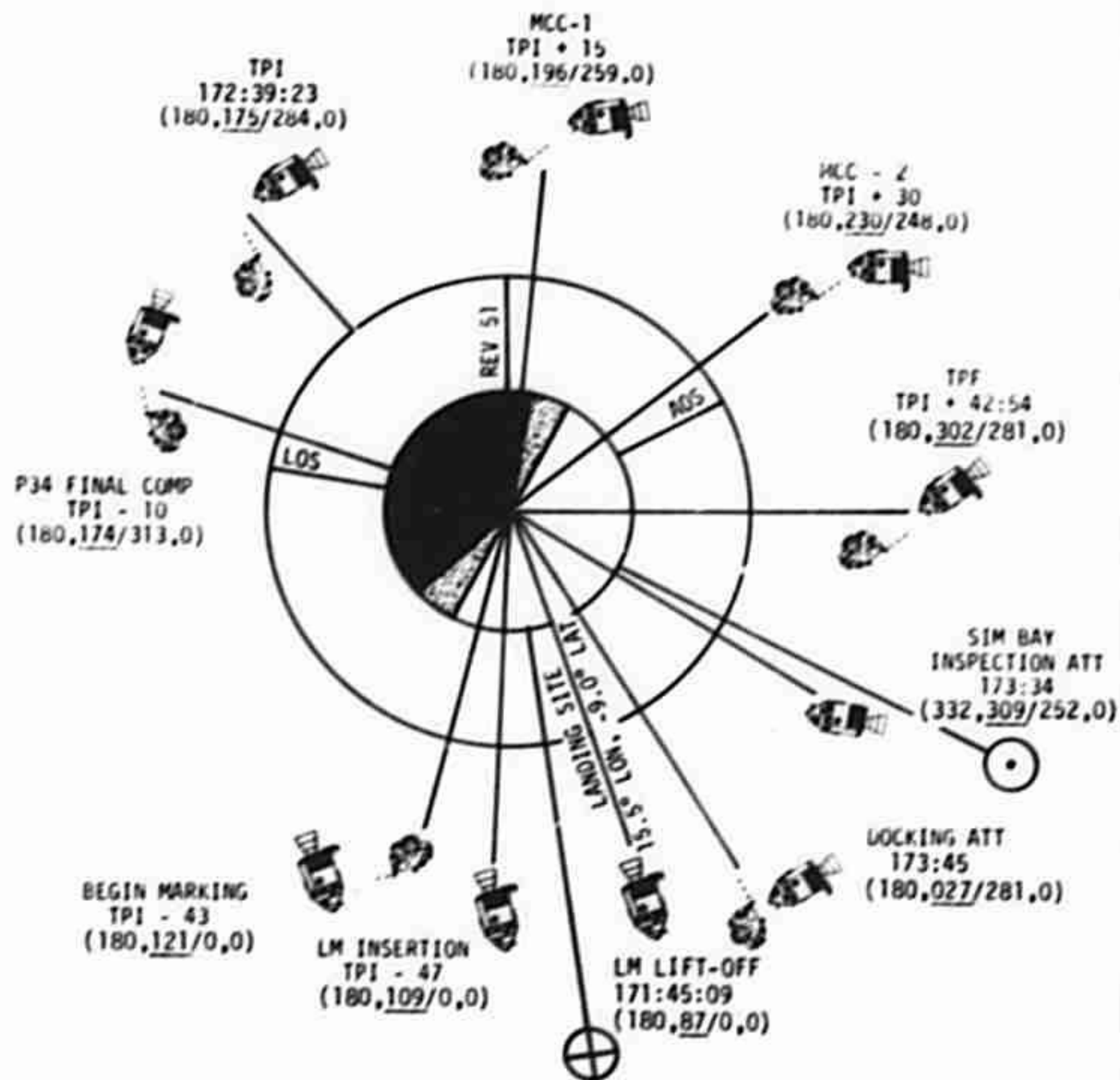
170:40

170:50

RGV 50

EAT PERIOD

171:00



MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE APITAL (4/16)	3/27/72-216/72c (R/S)	3-265

LM FLIGHT PLAN

MCC-H

1454 CST

CDR

LMP

NOTES

UPLINK TO LM
ZERO POS/NEG CELLS
CSM S.V. (L/O)
(IF REQ)
RLS (IF REQ)

171:00
(12102)

:05

P57 LUNAR SURFACE ALIGN
OPTION 4 LANDING SITE
A/T 3 - GRAVITY AND CELESTIAL BODY
(LIFT-OFF)

-0:40

LOAD AGS 047,053
BATS 5&6-ON, 1&3-OFF/RESET
SET CAMERA: LM3/DAC

POSTION RR ANT

:10

UPDATE TO LM
AGS K-FACTOR
AGS 047 & 053
LGC GYRO COMP
(IF REQ)
PIPA BIAS (IF REQ)

171:15

M
S
F
N

LOAD DAP, LM WT
P12 POWER ASCENT

-0:30

AGS LUNAR ALIGN

PRELAUNCH SWITCH CHECKS

PRELAUNCH SWITCH CHECKS

:20

DON HELMET & GLOVES

DON HELMET & GLOVES

:25

-0:20

V47 SET AGS BIAS
LIFT-OFF COMM, RECORDER-ON

171:30

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	171:00 - 171:30	8/50	3-266

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

171:00
(11102)
(x1111)

171:10

171:20

171:30



EAT PERIOD

SIM EXP STATUS
(*0000)
(01214)

ACQ MSFN HGA P -76, Y 258

MSFN CMDS:
DSE DUMP

PRESSURIZE CABIN TO 5.5 PSIA

VHF AM T/R - OFF (PNL 9)
VHF AM B - DUPLEX
VHF AM A - OFF (CTR) (VERIFY)
VHF RANGING - ON (UP) (DSE VOICE USE MARGINAL)
VHF ANT - RIGHT (VERIFY)
EXT LIGHTS RUN/EVA - ON (UP)
EXT LIGHTS RNDZ - RNDZ
RNDZ XPNDR - PWR

.....
• IF VHF VOICE REQ:
• VHF AM T/R-T/R (PNL 9)
.....

LOAD CSM AND LM WT

V49 MNVR TO P20 ATT (171:30)
(180,0,0) HGA P 7, Y 346

DIRECT ASCENT RNDZ PAD				UPDATE (IF REQ)			
GETI	HRS	+	0 0			+	0 0
LIFT-OFF	MIN	+	0 0 0			+	0 0 0
	SEC	+	0			+	0
GETI	HRS	+	0 0			+	0 0
TPI	MIN	+	0 0 0			+	0 0 0
N37	SEC	+	0			+	0

CSM WT	+				
LM WT	+	0	5	9	0 0

COELLIPTIC RNDZ PAD				UPDATE (IF REQ)			
GETI	HRS	+	0 0			+	0 0
LIFT-OFF	MIN	+	0 0 0			+	0 0 0
	SEC	+	0			+	0
GETI	HRS	+	0 0			+	0 0
CSI	MIN	+	0 0 0			+	0 0 0
N11	SEC	+	0			+	0
GETI	HRS	+	0 0			+	0 0
TPI	MIN	+	0 0 0			+	0 0 0
N37	SEC	+	0			+	0

LM FLIGHT PLAN

MCC-H

1524 CST

CDR

LMP

NOTES

GUIDANCE RECOMMEN-
DATION FOR ASCENT

171:30
(12102)

BAT 2, 4 - OFF/RESET
DES BATS - DEAD FACE

VERIFY CB STATUS

VERIFY CB STATUS

:35

APS PRESSURIZATION

-0:10

GO/NO-GO FOR
LIFT-OFF

:40

CHECK APS BURN CARD

CHECK APS,RCS,EPS,ECS

LM TIMELINE BOOK

171:45

M
S
T
F
V
N
X

LM LUNAR LIFT-OFF

DAC - ON

TIG: 171:45:08.6
BT: 7MIN 14.3SEC
ΔVT: 6047.9 FPS
ULLAGE: NONE
ORBIT: 45.0x9.0 NM

:50

DAC - OFF

UPDATE TO LM
TWEAK OR BAILOUT
INSTRUCTION
(IF REQD)

LUNAR ORBIT INSERTION

171:52:22.9

TRIM X RESIDUALS TO <2 FPS

:55

P20 RENDEZVOUS NAVIGATION

TWEAK BURN (IF REQD)

173:55

P34 TARGET TPI
RENDEZVOUS RADAR TRACKING

EXTERIOR LTG - TRACK

BAILOUT BURN (IF REQD)

173:57

172:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	171:30 - 172:00	8/50	3-268

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

171:30
(11102)
(x1111)

GDC ALIGN

SIM EXP STATUS
(*0000)
(01214)

PRE-SPS BURN SIM PREP (CUE CARD)

MSFN UPDATE:
GO/NO-GO FOR LM LIFT-OFF

171:40

M
S
F
N

LM LIFT-OFF

171:45:08.6

P34 (BYPASS MNVR)
V88; CMC MODE - HOLD
SET N79 = +005.00

171:50

VHF RNG-RESET

LM INSERTION

171:52:22.9

-47

156.29
-449.5

-43

V87
VERIFY VHF VOICE

123.67
-412.8

172:00

EVENT	CONTINGENCY MARKING SCHEDULES															
	SXT FROZEN (USABLE)*				TRACKER LIGHT FAILURE				SXT FAILURE (UNUSABLE)				VHF FAILURE			
P34	VHF	SXT	COAS	WRI	VHF	SXT	COAS	WRI	VHF	SXT	COAS	WRI	VHF	SXT	COAS	WRI
INSERTION																
FINAL COMP																
TPI P35																
FINAL COMP																
MCC-1 P35																
FINAL COMP																
MCC-2																

(1) SXT MARKS ARE TAKEN BY MANEUVERING SPACECRAFT
(2) TO USE COAS VARIANCE (MUST BE DONE PRIOR TO EACH MARKING PERIOD)
V25 N7E, 76E, 20000E, 0E
V21 N1E, 301E, 3777E

171:55:23(INS+3) TWEAK
171:57:23(INS+5) LM B/O
172:04:23(INS+12) CSM B/O

P34 INPUT			
37	LM GETI-TPI		
55	INTEG OPT +0000	ELEVATION \downarrow +000.00	TRANSFER \downarrow +130.00

LM FLIGHT PLAN

MCC-H

1554 CST

CDR

LMP

NOTES

172:00
(12102)
(12012)

:05

:10

172:15

:20

:25

172:30

M
S
F
N

V48 (12012) & LM WT

~~EXTERIOR LTG - TRACK~~

CONFIGURE S-BD FOR LOS
PCM - HI

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16) CHANGE A	3/27/72 3/6/72 (PI)	172:00 - 172:30	8/50	3-270

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

172:00

(11102)
(x1111)

-38
123.67
-412.8

IF UPLINK REQ:
P00
MSFN UPLINK:
LM S.V.
P34

VERIFY LM TRACKER LT-ON

SIM EXP STATUS
(*0000)
(31000)

BEFORE STEADY STATE
PRE-TPI: N49 > (+00200,+00120) REJECT/REPEAT
POST-TPI:N49 > (+00080,+00050) REJECT/REPEAT
AFTER STEADY STATE
ANYTIME: N49 > (+00030,+00020) REJECT/REPEAT

172:10

CMC MODE - AUTO

71.72
-279.7

172:20

MSFN CMDS:
DSE RECORD

VHF AM T/R-T/R (PNL 9)
VERIFY DSE TAPE MOTION (LBR/RCD/FWD/CMD RESET)

MSFN DISABLES MSFN S-BAND RELAY

41.46
-133.7

-10
172:30

P34 FINAL COMP

P30 MANEUVER

N/A SET STARS	C	S	M	B	/	O	PURPOSE
	S	P	S	G	&	N	PROP/GUID
	+			N	/	A	WT N47
R ALIGN N / A		0	0	N	/	A	P TRIM N48
P ALIGN N / A		0	0	N	/	A	Y TRIM
Y ALIGN N / A	+	0	0				HRS GETI
	+	0	0	0			MIN N33
	+	0					SEC
ULLAGE							ΔV_x N81
4 JET, 11 SEC							ΔV_y
							ΔV_z
	X	X	X				R
	X	X	X				P
	X	X	X				Y
ΔVC	+			N	/	A	H _A N44
				N	/	A	H _P

• IF LM BAILOUT REQ:
• COPY P76 DATA FROM LM

*33

*84

• GO TO RESCUE BOOK PG 4

• IF CSM BAILOUT REQ:

• MSFN UPDATE:
• CSM BAILOUT P30 PAD
• P30
• P40: SET UP EMS
• SPS BURN CUE CARD
• CSM BAILOUT BURN
• GO TO RESCUE BOOK PG 4

P34 RECYCLE

	INTEG OPT	ELEVATION } }	TRANSFER } }
55	+00000	.	+130.00
58	PERILUNE ALT	TPI ΔV	TPF ΔV
81	TPI ΔV -LV		
84	LM TPI ΔV -LV		

LM FLIGHT PLAN

MCC-H

1624 CST

CDR

LMP

NOTES

172:30
(12012)

:35

:40

172:45

:50
REV 51

:55

173:00

P42 APS THRUSTING

LOAD AGS TPI EXTERNAL ΔV

MANUAL ULLAGE

TPI NULL RESIDUALS
P35 TARGET MCC-1
RENDEZVOUS RADAR TRACKING

TIG: 172:39:12.9
BT: 2.5 SEC
 ΔVT : 72.1 FPS
ULLAGE: 4 JET 10 SEC
ORBIT: 61.9x44.0 NM

FINAL MCC-1 COMPUTATION

P41 RCS THRUSTING

LOAD AGS MCC-1 EXTERNAL ΔV

MCC-1 NULL RESIDUALS
P35 TARGET MCC-2
RENDEZVOUS RADAR TRACKING

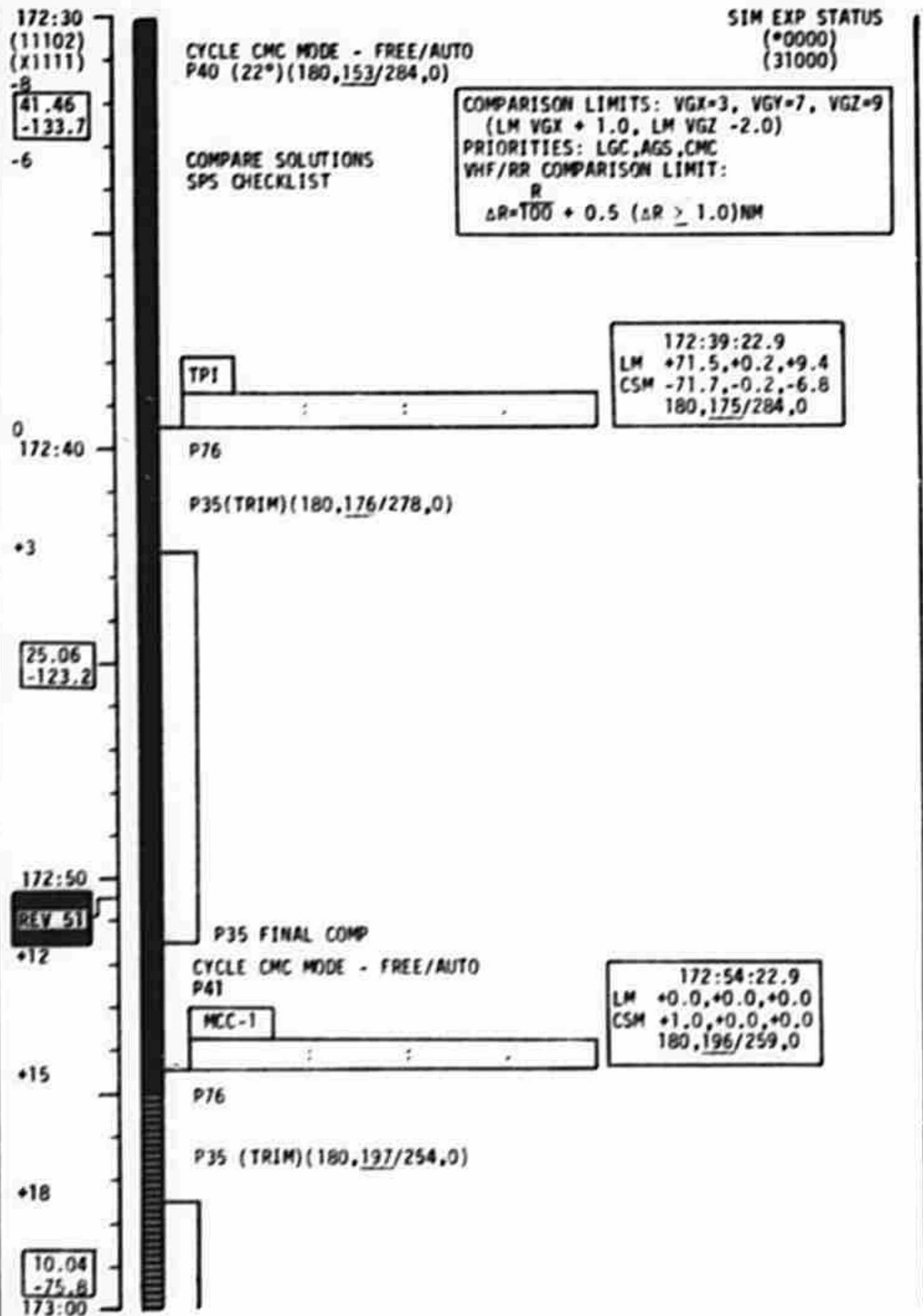
TIG: 172:54:22.9
 ΔVT : NOM ZERO

EXTERIOR LTG - OFF

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	172:30 - 173:00	8/50-51	3-272

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN



GROUND TPI FOR LM

					ΔV_X
					ΔV_Y
					ΔV_Z

P34 FINAL COMP

	INTEG OPT	ELEVATION δ	TRANSFER δ
55	+00000	.	+130.00
58	PERILUNE ALT	TPI ΔV	TPF ΔV
81	TPI ΔV -LV	.	.
84	LM TPI ΔV -LV	.	.
84	LM TPI ΔV -LV	.	.
P76	.	.	.

P35 FINAL COMP

81	MCC1 ΔV -LV	.	.
84	LM MCC1 ΔV -LV	.	.
84	LM MCC1 ΔV -LV	.	.
P76	.	.	.

-
- IF CSM ACTIVE & NSB TPF $\Delta V > 55$ FPS •
 - GO TO PRE-BRAKING SPS BURN PROCEDURES •
 - (SEE RESCUE BOOK PG 38) •
-

LM FLIGHT PLAN

MCC-H

1654 CST

CDR

LMP

NOTES

173:00
(12012)

:05

FINAL MCC-2 COMPUTATION

P41 RCS THRUSTING

LOAD AGS MCC-1 EXTERNAL ΔV

MCC-2

NULL RESIDUALS

TIG: 173:09:22.9
ΔVT: NOM ZERO

:10

TPI BURN REPORT

CONFIGURE COMM FOR AOS

173:15

(11002)

V48 (11002)

P47 THRUST MONITOR

BRAKING

TIG: 173:18:25
to 173:24:27
TOTAL ΔV: 33.4 FPS
ORBIT: 59.8x59.3 NM

:20

M
S
F
N

:25

COAS TO OVHD WINDOW

173:30

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	173:00 - 173:30	8/51	3-274

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

SIM EXP STATUS
(*0000)
(31000)

173:00
(11102)
(X1111)
10.04
-75.8

+27

P35 FINAL COMP

CYCLE CMC MODE - FREE/AUTO

P41

MCC-2

173:09:22.9
LM +0.0,+0.0,+0.0
CSM +0.0,+0.0,-3.0
180,230/248,0

+30

173:10

P76

P79;P00;V49(180,281,0)

ACQ MSFN HGA: P -64, Y 324 (TRACK - REACQ)

MSFN CHOS:
DSE DUMP

PERFORM PRE-DOCK CHECKLIST

2.32
-34.8

IF CSM ACTIVE:

P47 AT R=1.25 NM
SEC PRPLNT FUEL PRESS (4) - OPEN
VB3E
NB3E
KEY REL

UTILITY PWR - ON (VERIFY)

TV - ON

DAC - ON

LM PHOTOS WITH DAC/TV

TPF

173:22:16.5
LM 30.9 (TOTAL)
CSM 32.7 (TOTAL)
180,302/281,0

EMS MODE - STBY

EMS FUNC - OFF

EXT LIGHT RNDZ - OFF

LM STATION KEEP

DAC/TV - OFF

V49 MVR TO SIM BAY INSPECTION ATTITUDE (173:34)
(332,252,0) OMNI D

173:30

P35 FINAL COMP

81	MCC2 ΔV-LV		
84	LM MCC2 ΔV-LV		
84	LM MCC2 ΔV-LV		

P76

PRE-DOCK CHECKLIST

MAN ATT (3) RATE CMD (VERIFY)	CB DOCK PROBE (2) - CLOSED
LIMIT CYCLE - OFF (VERIFY)	PROBE RETRACT (2) - OFF (VERIFY)
ATT DB - MIN	PROBE EXT/REL - RETRACT
RATE - LOW (VERIFY)	PROBE EXT/REL TB (2) - GRAY (VERIFY)
TRANS CONTR PWR - ON (UP)	(IF TB NOT GRAY, GO TO PG 5/2-13,E)
ROT CONTR PWR DIRECT (BOTH) - MNA/MNB	CB SECS LOGIC (2) - CLOSED (VERIFY)
SC CONT - CMC (VERIFY)	CB SECS ARM (2) - CLOSED
AUTO RCS SEL (16) - MNA/MNB	EXT LIGHTS RUN/EVA - ON (UP) (VERIFY)
	COAS PWR - ON (UP) (VERIFY)

BRAKING GATES

R,NM	R,FPS	RETICLE ANG,DEG	R,FT
1.50	45	.08	9000
1.00	30	.13	6000
.50	20	.26	3000
.25	10	.54	1500
.08	5	1.60	500
.05		2.70	300
.03		4.00	200
.02		8.50	100

LM FLIGHT PLAN

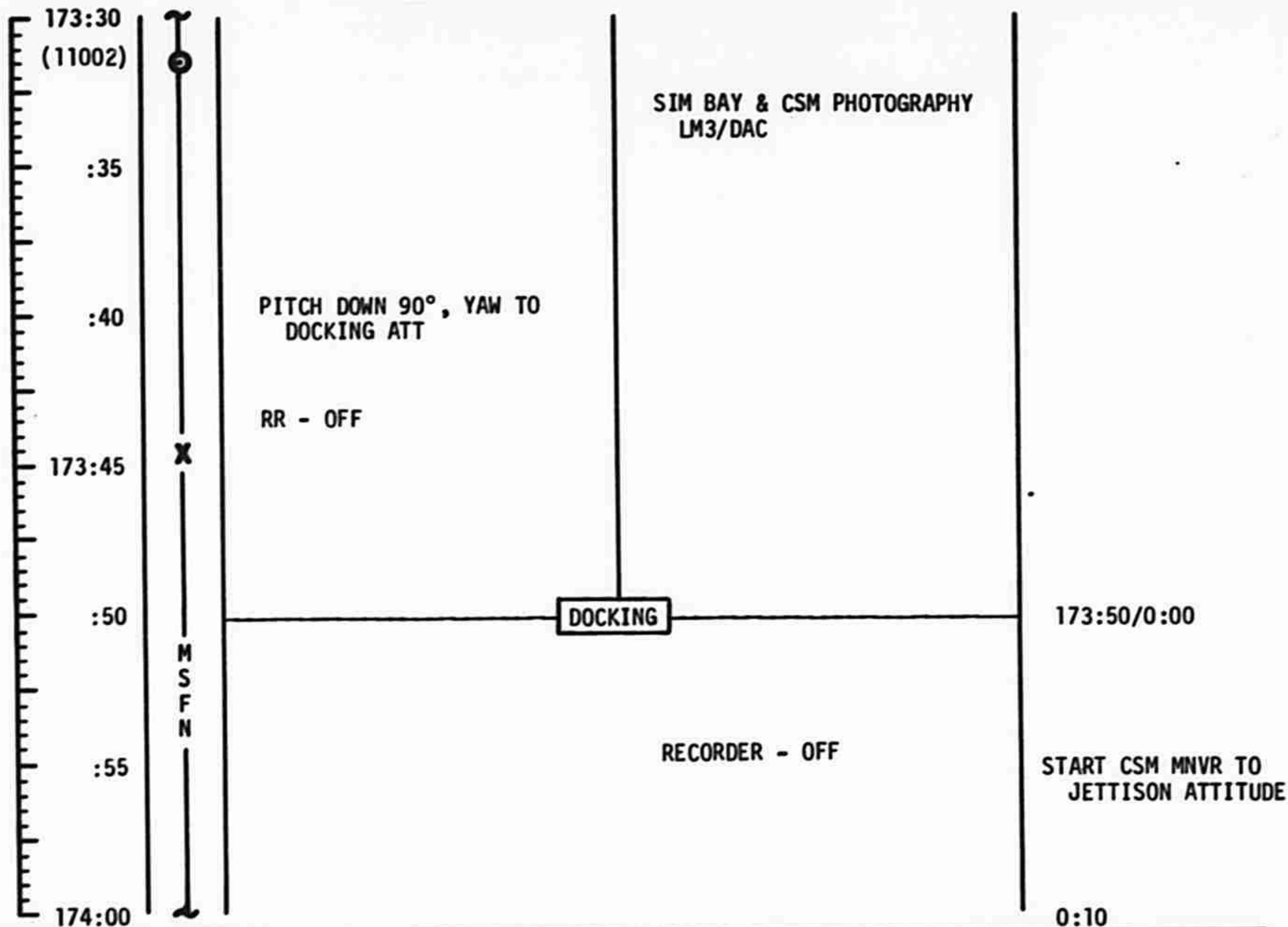
MCC-H

1724 CST

CDR

LMP

NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	173:30 - 174:00	8/51	3-276

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

SIM EXP STATUS
(*0000)
(31000)

173:30
(11102)
(x1111)

PERFORM 360° ROLL AT 2°/SEC

173:40

V49 MNVR TO DOCKING ATT (173:45)
(180,281,0) ACQ MSFN HGA P -64, Y 324

CUE MSFN FOR LOGIC ARM
SECS LOGIC (BOTH) - ON (UP)
MSFN GO FOR PYRO ARM
SECS PYRO ARM (2) - ON (UP)

P47
DAC/TV - ON

T TRANSLATE TO CAPTURE LATCH
V PERFORM DOCKING CHECKLIST

DOCKING

173:50

173:50:00

DAC/TV - OFF
POD
V48 (61111)
(x1111)
CMC MODE - AUTO

RECORD MAG : _____

RECORD EL FR # _____

RNDZ XPNDR - OFF
V49 MNVR TO LM JETT ATT (174:10)
(350,034,020) HGA P -38, Y 350

174:00

POST - SPS BURN SIM PREP (CUE CARD)

DOCKING CHECKLIST

AT CAPTURE

PROBE EXT/REL TB (2) - BP (VERIFY)
(IF TB NOT BP, GO TO PG S/2-11, A)
REPORT CAPTURE TO LM
SC CONT - CMC (VERIFY)
CMC MODE - FREE
ALLOW PROBE TO DAMP SC MOTION (10 SEC)
WHEN WITHIN +3° OF DOCKING ATTITUDE
PROBE RETRACT SEC - 1 (PRIM - 2 IF REED)

AT DOCK LATCH

PROBE EXT/REL TB (2) - GRAY

AT HARD DOCK

SECS PYRO ARM (2) - SAFE	EXT LIGHTS (2) - OFF
SECS LOGIC (BOTH) - OFF	COAS PWR - OFF
CB SECS ARM (2) - OPEN	AUTO RCS SEL: ROLL (4) - OFF
CB DOCK PROBE (2) - OPEN	TRANS CONTR PWR - OFF
THC - LOCKED	ROT CONTR PWR DIRECT (BOTH) - OFF
RHC - LOCKED	VHF RANGING - OFF
BMAG MODE (3) - RATE 2 (VERIFY)	
PROBE EXT/REL - OFF	
PROBE RETRACT (2) - OFF	

MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-277

LM FLIGHT PLAN

MCC-H

1754 CST

CDR

LMP

NOTES

<p>174:00 (11002)</p> <p>:10</p> <p>:20</p> <p>174:30</p> <p>:40</p> <p>REV 52</p> <p>:50</p> <p>175:00</p>	<p>M S F N</p>	<p>PREP FOR TRANSFER VERIFY TUNNEL PRESSURIZED FROM CSM OVHD DUMP VALVE - OPEN DOFF HELMETS & GLOVES WHEN TUNNEL/LM PRESSURES EQUAL, OVHD DUMP VALVE - AUTO VERIFY PRESS REGS A&B - EGRESS VERIFY JETT ATT CONFIGURE S-BAND FOR JETTISON OPEN HATCH RECEIVE FROM CMP: PROBE DROGUE VACUUM CLEANER LM TO CM TRANSFER LIST VACUUM PGA'S DISCONNECT DSEA & PLACE IN PURSE</p> <p>TRANSFER PURSE & RECEIVE DECONTAMINATION BAGS & JETT BAGS FROM CMP</p> <p>UNSTOW, VACUUM, WET WIPE AND TRANSFER:</p> <p> 16MM & 70MM FILM BAGS OPS FLIGHT DATA FILE LUNAR SURFACE EXPERIMENTS, EQUIPMENT AND SAMPLES</p>	<p>0:10</p> <p>0:20</p> <p>0:30</p> <p>0:40</p> <p>0:50</p> <p>1:00</p> <p>1:10</p>
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TAPE RECORDER OFF

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	174:00 - 175:00		3-278

FLIGHT PLANNING BRANCH

1754 CST

CSM FLIGHT PLAN

174:00

(61111)
(X1111)

STOW OPTICS

SIM EXP STATUS
(*0000)
(01214)

PREPARE COUCHES: CDR - 0°, CMP - 0°, LMP - 180°

REMOVE PROBE STRAPS (RS)

CDR - VERIFY FWD DUMP VLV - AUTO
CABIN FANS - ON (UP)

CM/LM PRESSURE EQUALIZATION (LOD)(DECAL)

174:10

M
S
F
N

TUNNEL LIGHTS - ON (UP)
TUNNEL HATCH REMOVAL (DECAL)

VERIFY DOCKING LATCHES ENGAGED (AT LEAST 3, 120° APART)

PROBE REMOVAL (CM SIDE)(DECAL)

DROGUE REMOVAL (DECAL)

TRANSFER TO CDR AT HIS REQUEST:

PROBE
DROGUE
VACUUM CLEANER (ASSEMBLED)
LM TO CM TRANSFER LIST

174:20

MSFN CMDS:
DSE RECORD

VERIFY DSE TAPE MOTION (LBR/RCD/FWD/CMD RESET)

174:30

174:30

(61111)
(X1111)

RECEIVE LEVA BAGS

SIM EXP STATUS
(*0000)
(01214)

TRANSFER TO CDR:
DECONTAMINATION BAGS

174:40

RECEIVE ITEMS FROM LM AND STOW
(LM TO CM TRANSFER LIST)

REV 52

174:50

175:00

MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-279

LM FLIGHT PLAN

MCC-H

1854 CST

CDR

LMP

NOTES

175:00
(11002)

:10

:20

175:30

:40

:50

176:00



UNSTOW SRC'S, VACUUM & TRANSFER TO CSM

RECEIVE B5 & B6 FROM CMP AND STOW IN SRC RACK
TRANSFER VACUUM CLEANER TO CSM

1:10

1:20

1:30

1:40

1:50

2:00

2:10

UPLINK TO LM
LM S.V. (TIG-10)
P30 TARGET LOAD
P99 LM DEORBIT

UPDATE TO LM
DAP LOAD (WTS)
DEORBIT BURN PAD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	175:00 - 176:00		3-280

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

175:00
(61111)
(X1111)

SIM EXP STATUS
(*0000)
(01214)

175:30
(61111)
(X1111)

SIM EXP STATUS
(*0000)
(01214)

175:10

ACQ MSFN HGA: P -38, Y 350

MSFN CMDS:
DSE DUMP

175:40

TRANSFER B5, B6 CONTAINERS TO LM

175:20

MSFN

175:50

MSFN UPDATE:
DAP LOAD-UPDATE WEIGHTS
LM JETTISON PAD (176:12)

175:30

176:00

V48 LOAD CSM & LM WEIGHTS

CSM WT	+					
LM WT	+					

MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-281

LM FLIGHT PLAN

MCC-H

1954 CST

CDR

LMP

NOTES

176:00
(12021)
:10
:20
176:30
:40
REV 53
:50
177:00

M
S
F
N

V48 (12021)
P30 TARGET PGNS

CONFIGURE AGS

CONTINUE EQUIP & SAMPLE TRANSFER (AS REQD)

CONFIGURE LM FOR JETTISON

CONFIGURE VHF FOR CLOSEOUT

IVT TO CSM

CLOSE HATCH, IVT TO CSM

2:10

2:20

³⁰
~~2:20~~

2:40

⁵⁰
~~2:30~~

3:00

LM CLOSEOUT

GO/NO-GO FOR LM
CLOSEOUT

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16) <small>CHANGE</small>	3/27/72 3/6/72 (P4J)	176:00 - 177:00	8/52-53	3-282

FLIGHT PLANNING BRANCH

CSM FLIGHT PLAN

176:00
(61111)
(X1111)

SIM EXP STATUS
(*0000)
(01214)

MSFN UPLINK:
CSM S.V. (CSM SEP -10)
LM S.V. (TIG LM DEORBIT -10)

(61101)
(X1111)

CYCLE CMC MODE - FREE/AUTO
V48 (61101)
(X1111)
V49 MNVR TO LM JETTISON PAD ATT (176:12)
HGA P -38, Y 350
CONTINUE EQUIP & SAMPLE TRANSFER

176:10

LM JETTISON PAD					
+	0	0			HRS
+	0	0	0		MIN
+	0				SEC
X	X	X			R (350)N22
X	X	X			P (034)
X	X	X			Y (020)

MSFN CMDS:
DSE RECORD

176:20

MSFN UPDATE:
GO/NO-GO FOR LM CLOSEOUT

VERIFY DSE TAPE MOTION (LBR/RCD/FWD/CMD RESET)

176:30

176:30
(61101)
(X1111)

SIM EXP STATUS
(*0000)
(01214)

176:40

TRANSFER ON JETTISON ITEMS TO LM

WARNING
NO URINE/FECES
ALL OPENED FOOD MUST
BE TREATED AND
STORED IN BETA BAG

REV 53

176:50

VHF AM B - OFF (CTR)
CONFIGURE CAMERA FOR LM JETTISON PHOTOS
CM2/DAC/18/CEX-BRKT,MIR (TB,1/250,7) 12 fps (50% MAG)
MAG (DD) _____, MAG % _____
UTILITY PWR - ON

LMP - CLOSE LM HATCH
DIRECT O₂ VLV - CLOSED (CM)
HATCH INSTALLATION (DECAL)
HATCH INTEGRITY CHECK (DECAL)

177:00

CSM FLIGHT PLAN

177:00
(61101)
(X1111)SIM EXP STATUS
(*0000)
(01214)ACQ MSFN HGA: P -38, Y 350

MSFN CMDS: DSE DUMP DATA SYS - ON

177:10

P30, N33: LM JETTISON TIG +5 MIN
NB1 (+2.0,+0.0,+0.0)LM PWR - OFF (VERIFY)
cb SECS ARM (2) - CLOSE
CUE MSFN FOR LOGIC ARMSECS LOGIC (2) - ON (UP)
DON HELMETS & GLOVESM
S
F
NREPORT: LM/CM ΔP
SUIT CKT INTEGRITY CHECK (DECAL)

177:20

LOAD ΔV IN EMS TO +100.0
CHECK NULL BIAS
GDC ALIGN

MSFN UPDATE: GO/NO-GO FOR PYRO ARM

(10101)
(X1111)PRE-JETTISON CHECKLIST
V48 (10101)
(X1111)

SECS PYRO ARM (2) - ARM

177:30

P47 (JETT -1 MIN)
EMS MODE - NORMAL (JETT -30 SECS)
DAC - ON (JETT -25 SECS)

PRE-JETTISON CHECKLIST

BMAG MODE (3) - ATT 1/RATE 2
ATT DB - MIN
SGS RATE - LOW SC CONT - SCS
EMS FUNC - ΔV
THC PWR - ON
RHC PWR DIR - MNA/MB
THC - ARMED
RHC - ARMED
cb CSM/LM FINAL SEP (2) - CLOSE

MISSION	EDITION	DATE	PAGE
APOLLO 16	Chg. B. FINAL (4/16)	2161724/172	3-284

CSM FLIGHT PLAN

177:30
(10101)
(x1111)SIM EXP STATUS
(*0000)
(01214)

LM JETTISON

177:31:15

(350,090/034,020)

POO

DAC - OFF

PRE-SEPARATION CHECKLIST

EMS MODE - NORMAL (SEP -30 SECS)

CSM SEPARATION

TIG: 177:36:15

BT: 13.2 SECS

ΔVT: 2 FPS

ORBIT: 61.7 x 59.5 NM

POO

HOLD FOR MSFN

EMS FUNC - OFF

THC PWR - OFF

RHC PWR DIR - OFF

THC LOCKED

RHC LOCKED

ROLL (4) - OFF

MSFN UPDATE:

MAP CAM PHOTO PAD (178:55)

PAN CAM PHOTO PAD (179:11)

TEI 62 PAD

177:40

DOFF PGA'S, HELMETS & GLOVES

ZIP SUITS & INSTALL ELECTRICAL COVERS PRIOR TO STOWING (PGA BAG)

CDR & LMP PGA ELECTRICAL COVERS ~~IN PURGE~~CDR & LMP INSTALL LCG PLUGS ~~(IN PURGE)~~INSTALL NECK RING COVERS ~~(CDR'S & LMP'S IN PURGE)~~

STOW UCTAS (PGA BAG)

TRANSFER PRD'S TO CWG'S

CDR & CMP DOFF BIOMED HARNESS

MSFN UPLINK:

CSM S.V. & V66

177:50

V44 (SET LUNAR SURFACE FLAG)

VENT HATCH N₂

PRE-SEPARATION CHECKLIST

EMS MODE - STBY

SC CONT - CMC

BMAG MODE (3) - RATE 2

P41 (BYPASS MNVR)

AUTO RCS SEL (16) - MNA/MNB

SECS PYRO ARM (2) - SAFE

SECS LOGIC (2) - OFF

cb SECS ARM (2) - OPEN

cb CSM/LM FINAL SEP (2) - OPEN

178:00

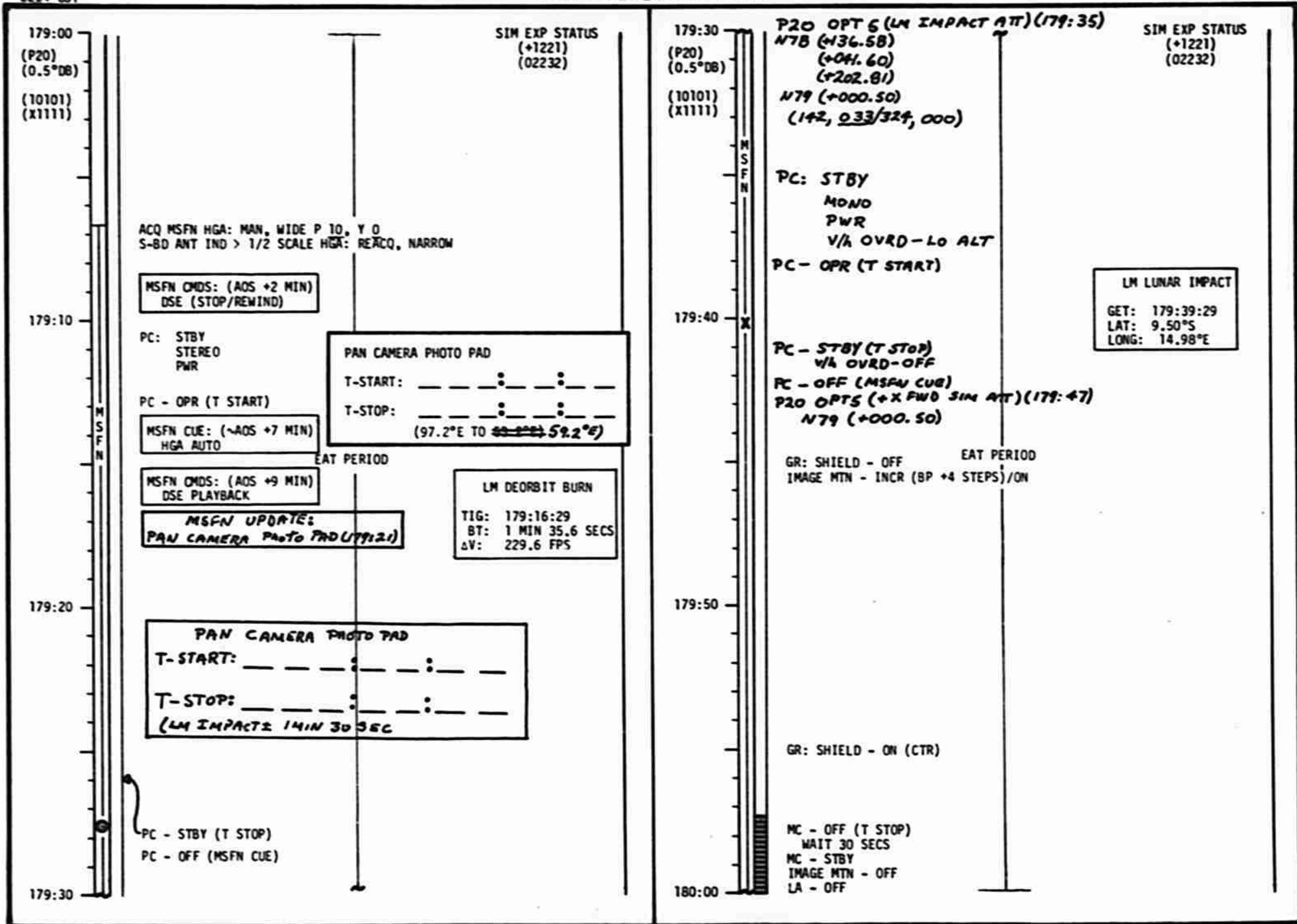
MISSION	EDITION	DATE	PAGE
APOLLO 16	<i>clg c.</i> FINAL (4/16)	<i>210117E-4/10/72</i>	3-285

CSM FLIGHT PLAN

<p>178:00 (10101) (X1111)</p> <p style="text-align: center;">MSFN MSFN</p> <p>178:10</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> <p>MSFN CMDS: DSE RECORD</p> </div> <p>178:20</p> <p>VERIFY DSE TAPE MOTION (HBR/RCD/FWD/CMD RESET)</p> <p>WIPE EXCESS MOISTURE FROM TUNNEL AREA</p> <p>L10H CANISTER CHANGE: (15 INTO B, STOW 12 IN A3)</p> <p>178:30</p>	<p style="text-align: center;">SIM EXP STATUS (*0000) (01214)</p> <p>178:30 (10101) (X1111)</p> <p>(P20) (0.5°DB)</p> <p>178:40</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> <p>REV 54</p> </div> <p>178:50</p> <p>P20 OPT 5 (+X FWD SIM ATT)(178:50) N79 (+000.50) SET HGA P <u>10</u>, Y <u>0</u> FOR AOS ACQ</p> <p>SIM BASIC CONFIG (CUE CARD) MC/LA COVER - OPEN AP/XR COVER - OPEN MS - DEPLY TO 8.4 FEET (1 MIN 01 SEC)</p> <p>GR - DPLY TO 4 FEET (33 SECS) MC - EXTD LA - ON MS: EXP - ON ION SOURCE - STBY XR - ON</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>MAP CAMERA PHOTO PAD</p> <p>T-START: — — — : — — — </p> <p>T-STOP: — — — : — — — </p> <p>(143.7°E TO 38.7°W)</p> </div> <p>IMAGE MTN - OFF ON MC - ON (T START) IMAGE MTN - INCR (BP)/ON</p> <p>179:00</p>
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MISSION	EDITION	DATE	PAGE
APOLLO 16	Cy B. FINAL (4/16)	3161724/7/72	3-286

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	Chg.C. +HMC (4/16)	21677-9/10/72	3-287

CSM FLIGHT PLAN

180:00
(P20)
(0.5°DB)
(10101)
(X1111)

MC - RETR
MS: ION SOURCE - ON
GR - DPLY
MS - DPLY
MC/LA COVER - CLOSE

SIM EXP STATUS
(+1221)
(01232)

MSFN

MSFN CMDS: (AOS +61 MIN)
DSE REMIND

CMC MODE - FREE
P52 (OPTION 3)
(LIFT OFF ORIENT)

REPORT: GYRO TORQUING ANGLES

P20, CMC MODE - AUTO
GDC ALIGN

MSFN CMDS: (AOS +68 MIN)
DSE RECORD

CSM EXP/EVA CHECKLIST

GUM NEBULA PHOTO SEQ A, ~~PAGE~~ X/2-7

MAG (ZZ)
POO: V49 MNVR TO GUM NEBULA PT. 3 (180:24)
(126,159,302)

VERIFY DSE TAPE MOTION (HBR/RCD/FWD/CMD RESET)

(10101)
(X1111)

180:20

180:30

P52 IMU REALIGN

N71: _____

N05: _____

N93: _____

X _____

Y _____

Z _____

GET _____

180:30
(10101)
(X1111)

SIM EXP STATUS
(*0111)
(01222)

GUM NEBULA PHOTO SEQ A, STEPS 4 & 5

REV 55

180:50
(P20)
(3.0°DB)

P20 OPT 5 (-X FWD SIM ATT)(181:05)
N79 (+003.00)
SET HGA P 0, Y 170 FOR AOS ACQ

181:00

MISSION	EDITION	DATE	PAGE
APOLLO 16	Change A FINAL (4/16)	3/27/72 3/6/72 (P43)	3-288

CSM FLIGHT PLAN

181:00
(P20)
(3.0°DB)

(10101)
(X1111)

SIM EXP STATUS
(-0111)
(01222)

ACQ MSFN HGA: MAN, WIDE P O, Y 170
S-BD ANT IND > 1/2 SCALE HGA: REACQ, NARROW

MSFN CMDS: (AOS +2 MIN)
DSE (STOP/REWIND)

CSM SYSTEMS CHECKLIST

PRE-SLEEP CHECKLIST PAGE S/1-29
LOGIC PWR (2) - OFF

*MSFN UPLINK:
JET-ON MONITOR LOADS*

MSFN CMDS: (AOS +9 MIN)
DSE PLAYBACK

ONBOARD READOUT

BAT C	_____
PYRO BAT A	_____
PYRO BAT B	_____
RCS A	_____
B	_____
C	_____
D	_____
DC IND SEL - MNA OR B	

181:10

181:20

181:30

FILM MAGS REQD FOR NEXT DAYS
DAC: VHBW-HH
EL: CEX-QQ, VHBW-SS & TT
NK: VHBW-ZZ

181:30
(P20)
(3.0°DB)

(10101)
(X1111)

SIM EXP STATUS
(-0111)
(01222)

181:40

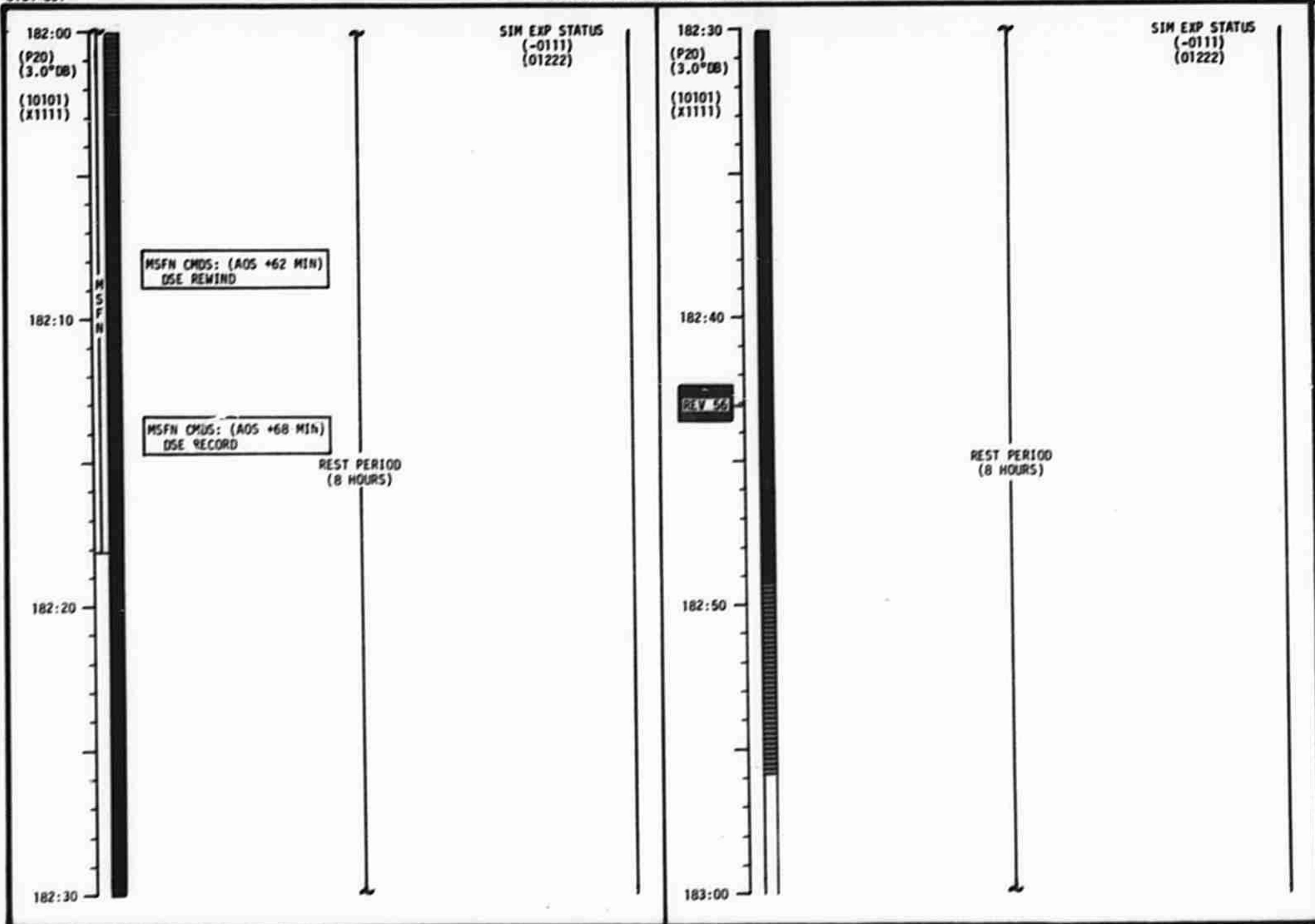
181:50

182:00

REST PERIOD
(8 HOURS)

MISSION	EDITION	DATE	PAGE
APOLLO 16	Cy. B. FINAL (4/16)	21672 4/17/72	3-289

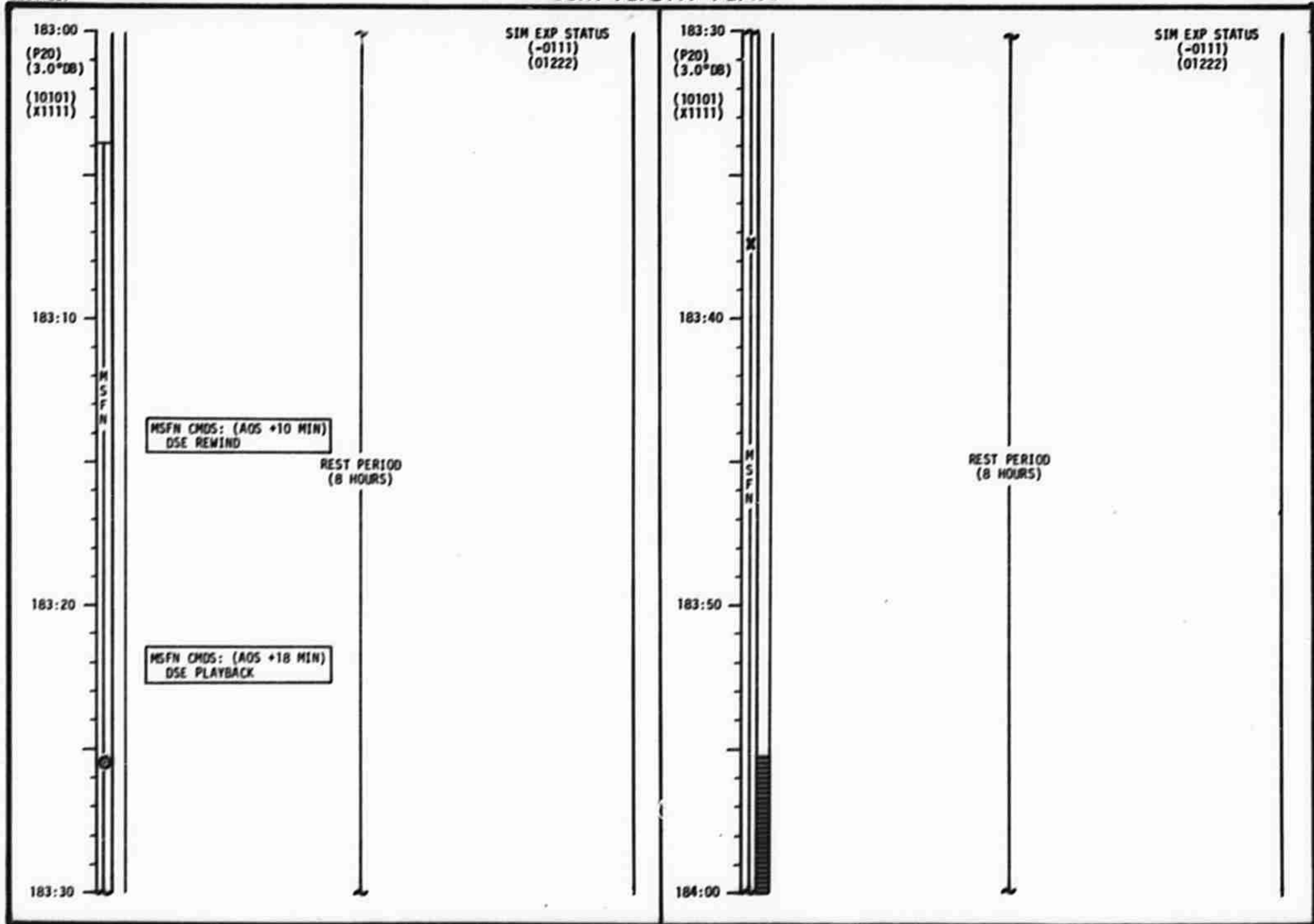
CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-290

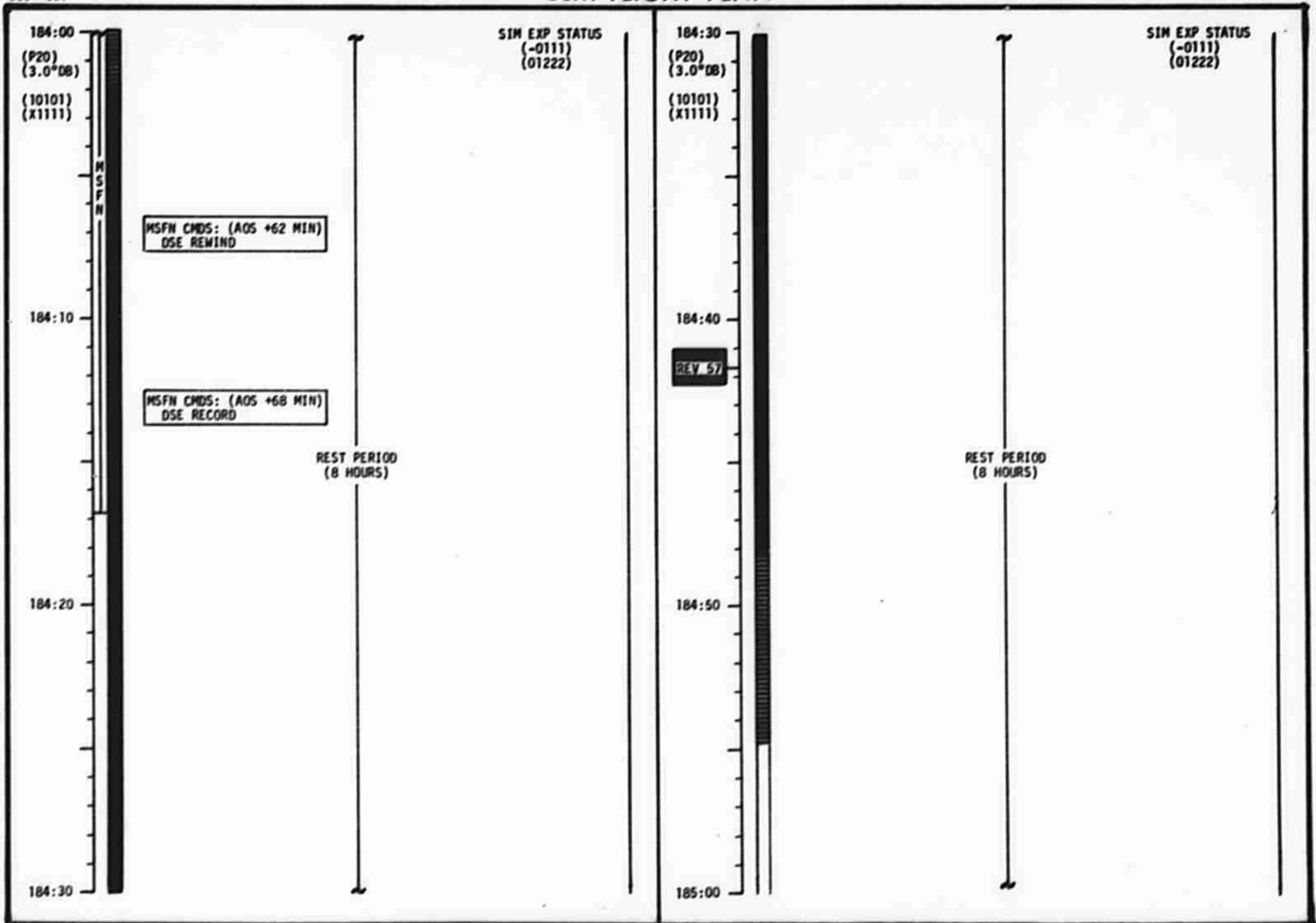
0254 CST

CSM FLIGHT PLAN



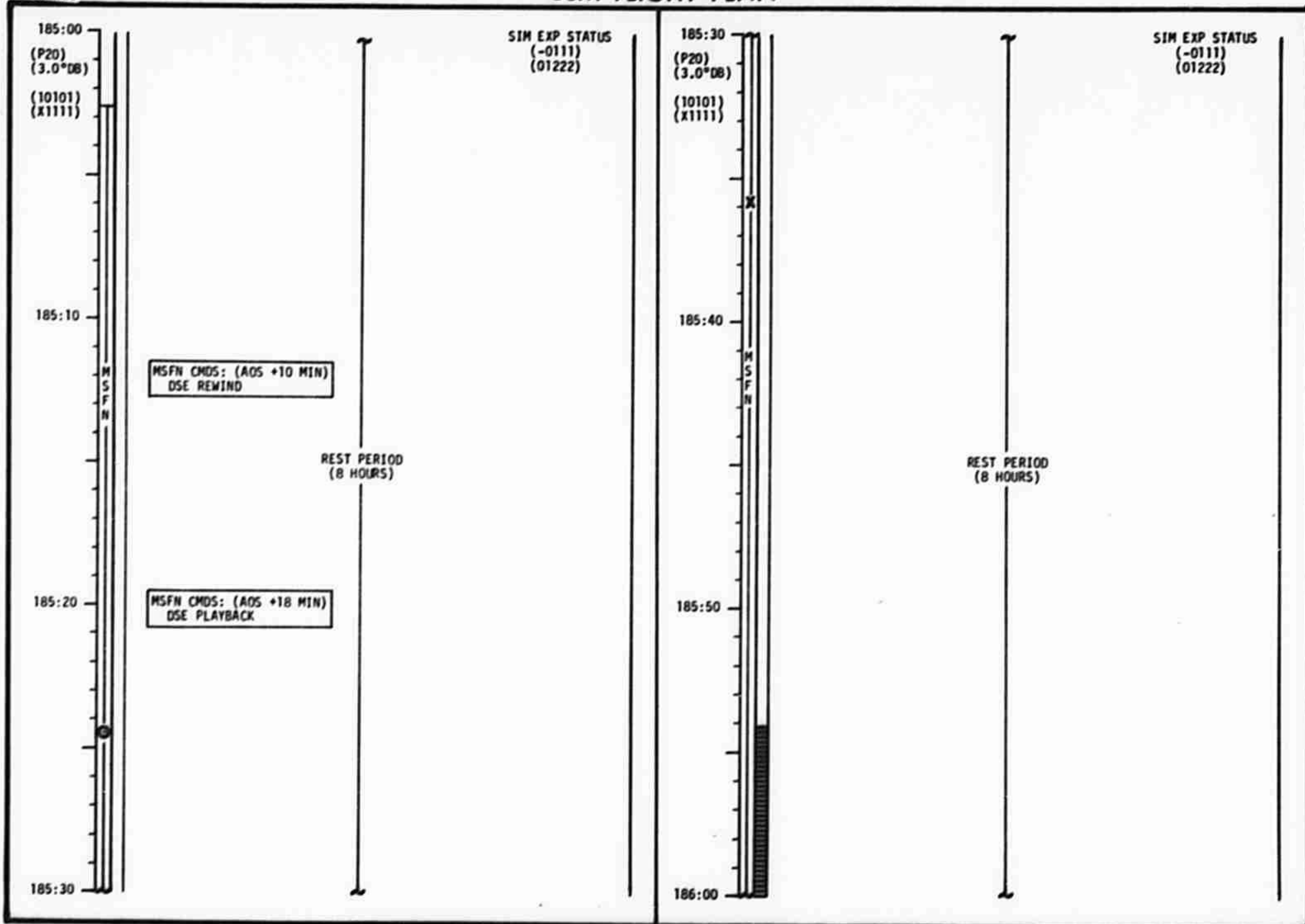
MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-291

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-292

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-293

CSM FLIGHT PLAN

186:00
 (P20)
 (3.0°DB)
 (10101)
 (X1111)
 MSFN
 186:10
 186:20
 186:30

MSFN CMDS: (AOS +62 MIN)
 DSE REMIND

MSFN CMDS: (AOS +68 MIN)
 DSE RECORD

REST PERIOD
 (8 HOURS)

SIM EXP STATUS
 (-0111)
 (01222)

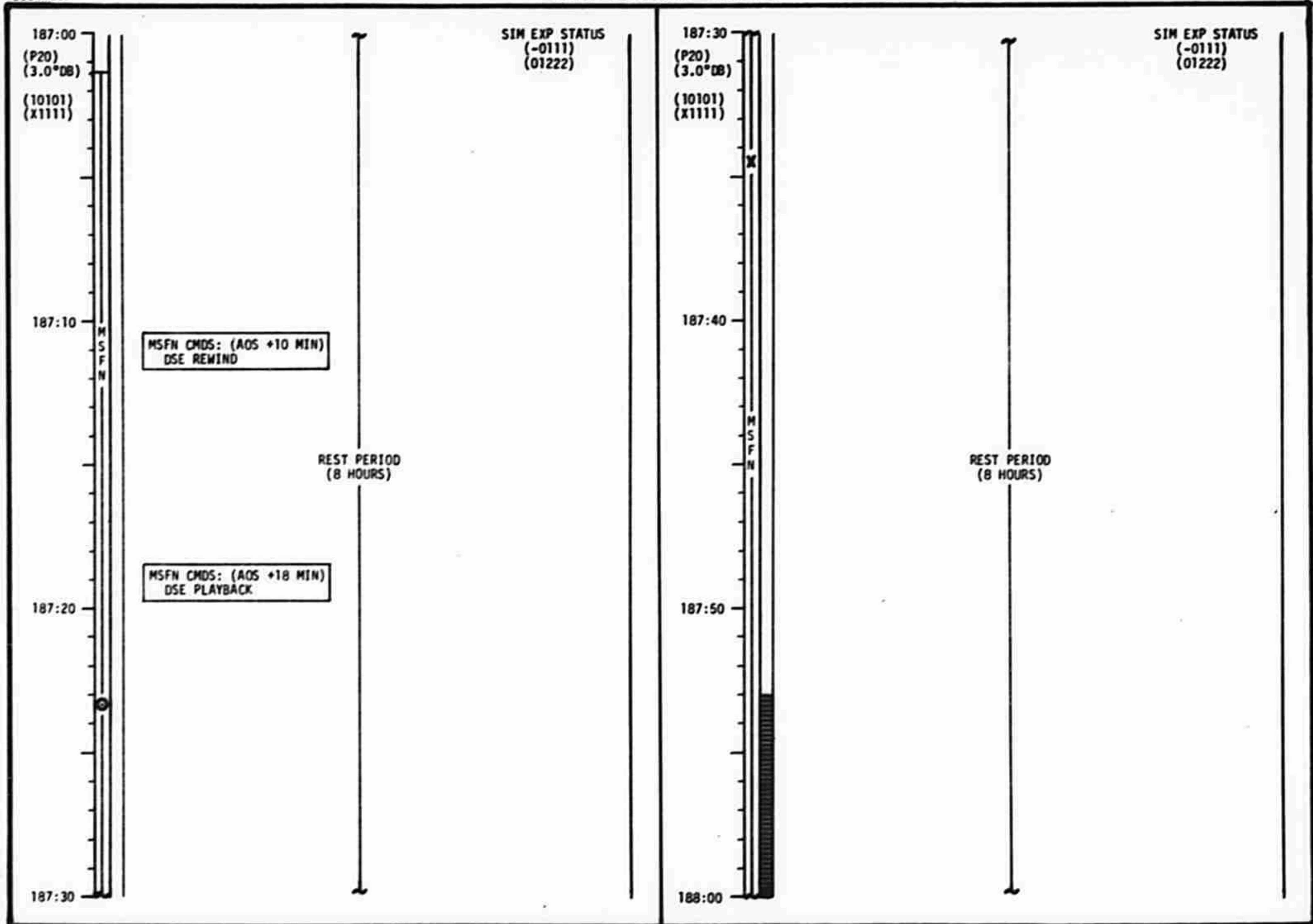
186:30
 (P20)
 (3.0°DB)
 (10101)
 (X1111)
 186:40
 REV 58
 186:50
 187:00

REST PERIOD
 (8 HOURS)

SIM EXP STATUS
 (-0111)
 (01222)

MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-294

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-295

CSM FLIGHT PLAN

188:00
 (P20)
 (3.0°DB)
 (10101)
 (X1111)
 MSFN
 188:10
 188:20
 188:30

MSFN CMDS: (AOS +62 MIN)
 DSE REMIND

MSFN CMDS: (AOS +68 MIN)
 DSE RECORD

REST PERIOD
 (8 HOURS)

SIM EXP STATUS
 (-0111)
 (01222)

188:30
 (P20)
 (3.0°DB)
 (10101)
 (X1111)

REV 59

188:40

188:50

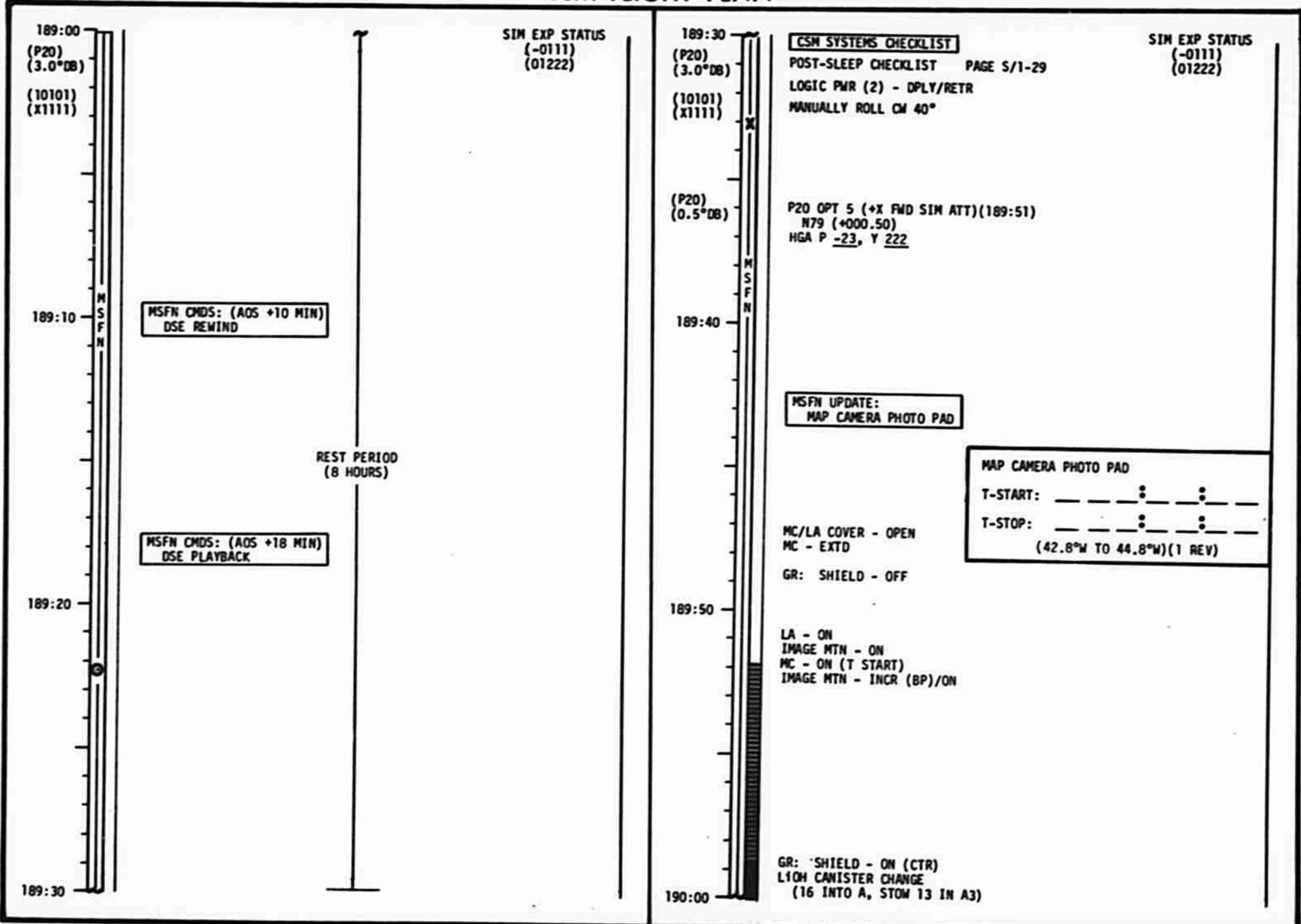
189:00

REST PERIOD
 (8 HOURS)

SIM EXP STATUS
 (-0111)
 (01222)

MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-296

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-297