

FLIGHT PLAN

MCC-H

0554 CST

NOTES

UPDATE TO CSM
CONSUMABLES STATUS
FLIGHT PLAN



M
S
F
N

CSM SYSTEMS CHECKLIST

POST-SLEEP CHECKLIST PAGE S/1-29

REPORT: LM/CM ΔP
IF ΔP > 2.4 PSID:
O₂ HEATERS 1&2 - AUTO
PRESSURIZE CSM TO 5.7 PSIA

TERMINATE TIMING VOIDS AND MEASURING FLUID INTAKE

EAT PERIOD

PTC

DAP LOAD STATUS
(21101)(X1111)

EARTH DISTANCE
~189,400 NM

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	66:00 - 67:00	4/TLC	3-61

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0654 CST

NOTES

UPDATE TO CSM
GO/NO-GO FOR MCC-4

67:00
:10
:20
67:30
(21101)
(X1111)
:40
:50
68:00

M
S
F
N

~~ADD RULED MEASURE
TO BACK OF STAR CHART
IN CM~~

~~EVAL RELEASING
OBJECTS WITH REPEATABLE
I.C.'S~~

EAT PERIOD

PTC

CSM G&C CHECKLIST

*EMS ΔV TEST & NULL BIAS CHECK
*REPORT: BIAS
EXIT G&N PTC PAGE G/8-3

PAGE G/2-5

CM/LM PRESSURE EQUALIZATION (DECAL)
PRESSURE EQUAL VALVE - CLOSED
O₂ HEATERS 1&2 - OFF (VERIFY)
CMP DON, CDR DOFF BIOMED HARNESS

CSM EXP/EVA CHECKLIST

V49 MNVR TO MOON UV PHOTO ATT (68:00)
(144,233,000) HGA P -62, Y 157
MOON UV PHOTOGRAPHY, PAGE X/2-19
MAG (OO)
MAG (NN)

DAP LOAD STATUS
(21101)(X1111)

*PERFORM IF MCC-4
IS REQUIRED

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16) <i>CHANGE A</i>	3/27/72 3/6/72	67:00 - 68:00	4/TLC	3-62

FLIGHT PLANNING BRANCH

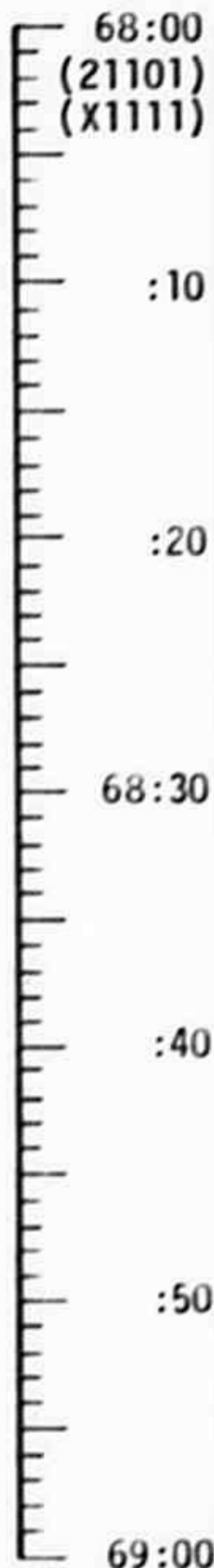
FLIGHT PLAN

MCC-H

0754 CST

NOTES

UPDATE TO CSM
MCC-4 MNVR PAD
PERICYNTHION +2 HR
ABORT PAD
UPLINK TO CSM
CSM S.V. & V66
MCC-4 TGT LOAD



CONFIGURE CAMERA FOR SIM DOOR JETT PHOTOS
CM5/DAC/75/CEX (f8,1/250,100) 12 fps (5% MAG)

MAG (BB) _____, MAG % _____
CONFIGURE CABIN FOR LUNAR ORBIT
P52 (OPTION 3)
(PTC ORIENT)

PUT VELCRO ON EL SHUTTER SPEED

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

- *P30 EXTERNAL ΔV
- *V49 MNVR TO PAD BURN ATT
- *IF SPS MIDCOURSE REQUIRED
- * PRE-SPS BURN SIM PREP (CUE CARD)

PERICYNTHION +2 HR
ABORT PAD TARGETED
FOR A FAST RETURN
TO MPL

P52	IMU REALIGN
N71:	___'___
N05:	___'___
N93:	
X	___'___
Y	___'___
Z	___'___
GET	___:___:___

*PERFORM IF MCC-4
IS REQUIRED
EARTH DISTANCE
~194,100 NM

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	68:00 - 69:00	4/TLC	3-63

FLIGHT PLANNING BRANCH

MCC-4
BURN TABLE
NO MANUAL START OR RESTART

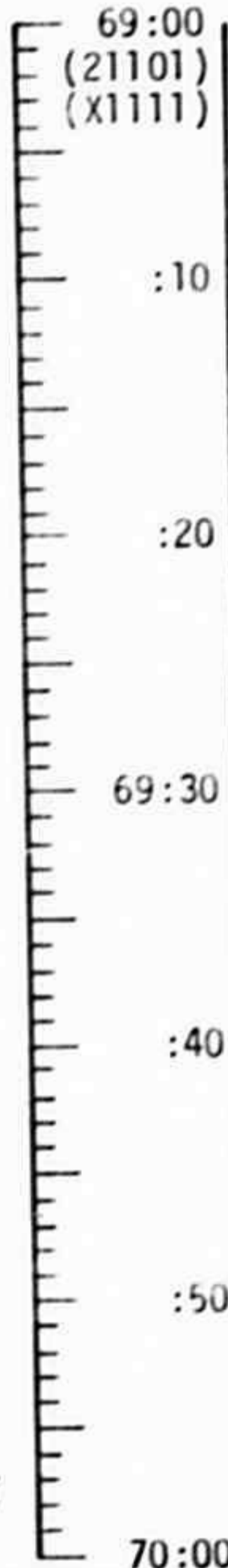
P OR Y RATE	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC TERMINATE	+10° TERMINATE	BT + 1 SEC	TRIM ONLY X AXIS TO 0.2 FPS

FLIGHT PLAN

MCC-H

0854 CST

NOTES



M
S
F
N

*SXT STAR CHECK
*P40 SPS THRUSTING OR P41 RCS THRUSTING

MCC-4

TIG: 69:29
BT: NOM ZERO
ΔVT: NOM ZERO
ULLAGE: NONE

*V66 SET CSM S.V. INTO LM S.V.
*REPORT: BURN STATUS
V49 MNVR TO SIM DOOR JETTISON ATTITUDE (69:49)
(353,042,000) HGA P -25, Y 307

CSM EXP/EVA CHECKLIST

SIM DOOR JETTISON, PAGE X/1-7

GO/NO-GO FOR SIM DOOR JETTISON (CUE MSFN)

SIM DOOR JETTISON 69:59

*PERFORM IF MCC-4 IS REQUIRED

BURN STATUS REPORT					
X	X		●		ΔTIG
X	X		●		BT
			●		V _{gx}
TRIM					
X	X	X			R
X	X	X			P
X	X	X			Y
			●		V _{gx}
			●		V _{gy}
			●		V _{gz}
			●		ΔV _c
X	X	X			FUEL
X	X	X			OX
X	X	X			UNBAL

BECAUSE OF SIM BAY CONSTRAINTS, URINE WILL BE COLLECTED AND DUMPED AS SCHEDULED IN THE FLIGHT PLAN FOR THE REMAINDER OF THE MISSION

LOI -5 HR

MSFN CMD
DATA SYS-ON
DSE RECORD

MSFN UPDATE
GO/NO-GO FOR
SIM DOOR JETT

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/27/72 3/6/72	69:00 - 70:00	4/TLC	3-65

CHANGE A

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

0954 CST

NOTES

UPLINK TO CSM
CSM S.V. & V66
(PRELIMINARY)
LOI TGT LOAD
(PRELIMINARY)
DESIRED ORIENT(LOI)

UPDATE TO CSM
LOI MNVR PAD
(PRELIMINARY)

70:00
(21101)
(X1111)

:10

:20

70:30

:40

:50

71:00

M
S
F
N

V49 MNVR TO P52 ATTITUDE (70:15)
(324,094,316) HGA P -17, Y 296
H₂ HEATERS 1 & 2 - AUTO
H₂ FANS 3 - OFF
cb O₂ TK 50W HTRS (3) - OPEN
O₂ HEATERS 1 & 2 - AUTO
O₂ HEATER 3 - OFF
REPORT: LM/CM ΔP
IF ΔP < 0.2 PSID, PRESSURE EQUAL VALVE - OPEN
IF ΔP > 0.2 PSID, PERFORM CM/LM PRESSURE EQUALIZATION (DECAL)

CHECK MISSION TIMER AGAINST CMC CLOCK

CSM G&C CHECKLIST

EMS ΔV TEST & NULL BIAS CHECK PAGE G/2-5
REPORT: BIAS

SIM EXP STATUS
(*0000)
(31014)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	70:00 - 71:00	4/TLC	3-66

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1054 CST

NOTES



M
S
F
N

GR: EXP - ON
 SHIELD - ON (CTR)
 LiOH CANISTER CHANGE
 (8 INTO B, STOW 6 INTO B6)

LIMIT CYCLE - ON
 ATT DEADBAND - MIN
 RATE - LOW
 BMAG (3) - ATT 1/RATE 2
 SC CONT - SCS
 P52 (OPTION 3)
 (PTC ORIENT)

REPORT: GYRO TORQUING ANGLES
 P52 (OPTION 1)
 (LOI ORIENT)

SC CONT - OMC
 BMAG (3) - RATE 2
 GDC ALIGN

STARS _____,
 SA _____,
 TA _____,

SIM EXP STATUS
 (*0000)
 (31014)

P52 IMU REALIGN	
N71:	____, ____
N05:	____. ____
N93:	
X	____. ____
Y	____. ____
Z	____. ____
GET	____: ____: ____

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	71:00 - 72:00	4/TLC	3-67

FLIGHT PLANNING BRANCH

FLIGHT PLAN

MCC-H

1154 CST

NOTES



72:00
(21101)
(X1111)

:10

:20

72:30

:40

:50

73:00

M
S
F
N

GR: SHIELD - OFF

GR: SHIELD - ON

EAT PERIOD

SIM EXP STATUS
(*0000)
(31214)

TEI 4 PAD
ASSUMES NO DOI

UPDATE TO CSM
TEI 4 PAD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	72:00 - 73:00	4/TLC	3-68

FLIGHT PLANNING BRANCH



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P30 MANEUVER

SET STARS	L	O	I			PURPOSE
	S	P	S/G	&	N	PROP/GUID
	+					WT N47
R ALIGN _____		0	0	•		P TRIM N48
P ALIGN _____		0	0	•		Y TRIM
Y ALIGN _____	+	0	0			HRS GETI
	+	0	0	0		MIN N33
	+	0		•		SEC
ULLAGE _____					•	ΔV_x N81
_____					•	ΔV_y
_____					•	ΔV_z
_____	X	X	X			R (000)
_____	X	X	X			P (000)
_____	X	X	X			Y (000)
	+				•	H _A N44
					•	H _P
	+				•	ΔVT
HORIZON/WINDOW _____	X	X	X	•		BT
_____	X				•	ΔVC
_____	X	X	X	X		SXTS
_____	+			•	0	SFT
_____	+		•	0	0	TRN
	X	X	X			BSS
	X	X			•	SPA
	X	X			•	SXP

FLIGHT PLAN

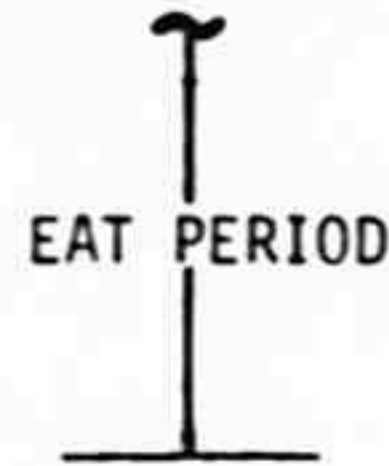
MCC-H

1254 CST

NOTES



M
S
F
N



CSM SYSTEMS CHECKLIST

PRE-LOI SECONDARY GLYCOL LOOP CHECK PAGE S/1-19
 C/W SYSTEM OPERATIONAL CHECK PAGE S/1-20
 SPS MONITORING CHECK PAGE S/1-1
 SM RCS MONITORING CHECK
 CM RCS MONITORING CHECK
 ECS MONITORING CHECK PAGE S/1-5
 REPORT: LM/CM ΔP
 OXIDIZER FLOW VALVE INCR - NORM (VERIFY)

PRE-SPS BURN SIM PREP (CUE CARD)

P30 EXTERNAL ΔV

V49 MNVR TO PAD BURN ATTITUDE (73:50)

OMNI D

SXT STAR CHECK

SIM EXP STATUS
 (*0000)
 (31214)

DO NOT USE PU
 VALVE FOR LOI.

THE APPROXIMATE TIME
 OF CROSSOVER IS 4:20
 TO 4:25 INTO THE LOI
 BURN.

MAP UPDATE	<u>1</u>
LOS:	_ _ _ : _ _ : _ _
180°:	_ _ _ : _ _ : _ _
AOS WITH LOI:	_ _ _ : _ _ : _ _
AOS WITHOUT LOI:	_ _ _ : _ _ : _ _

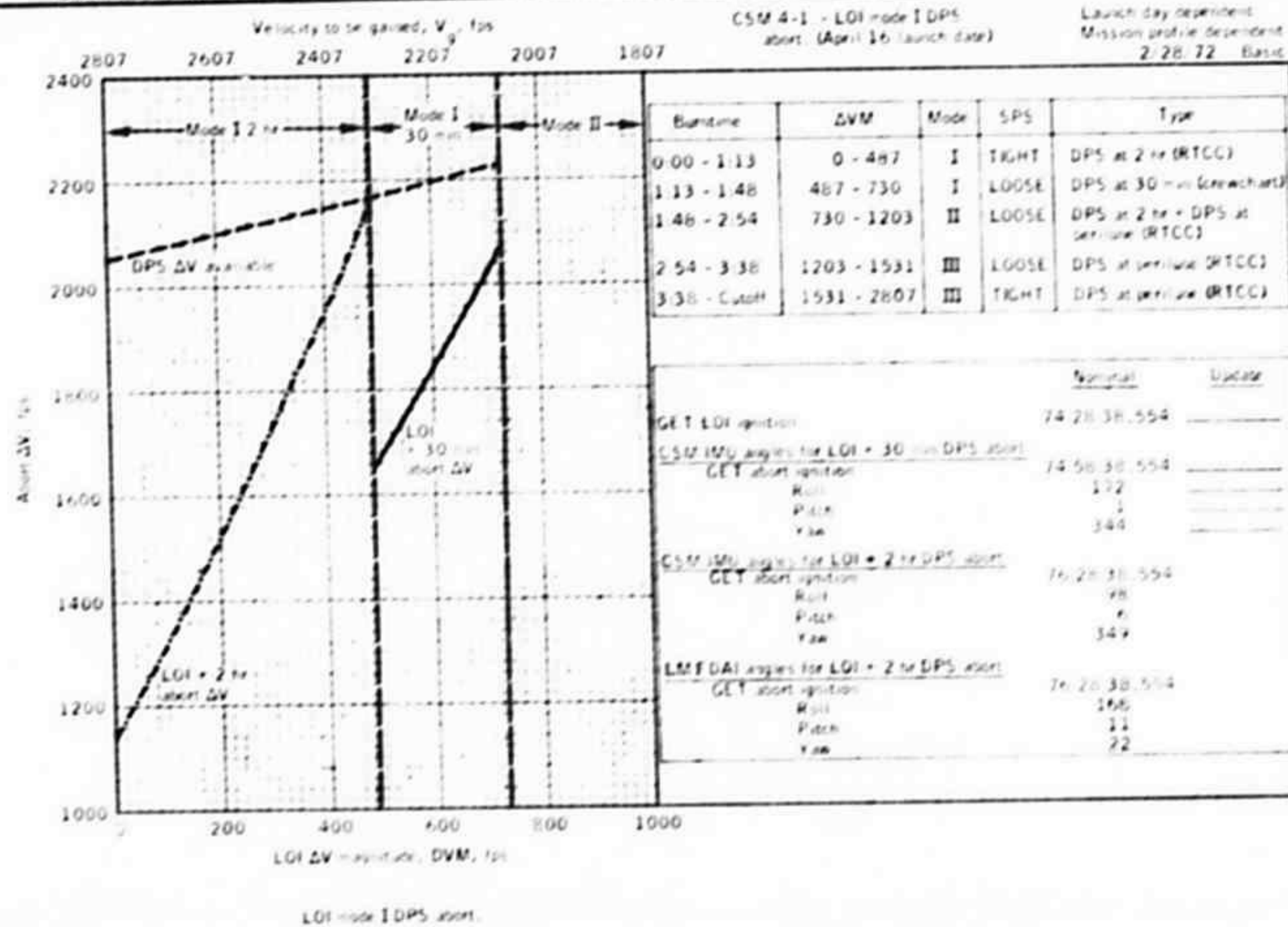
UPDATE TO CSM
 LOI MNVR PAD
 MAP UPDATE REV 1

UPLINK TO CSM
 CSM S.V. & V66
 LOI TGT LOAD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	73:00 - 74:00	4/TLC	3-71

**LOI
BURN TABLE
IGN DELAY < 2 MIN**

P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC TAKEOVER & COMPLETE	+10° TAKEOVER & COMPLETE	BT + 10 SEC	DO NOT TRIM



FLIGHT PLAN

MCC-H

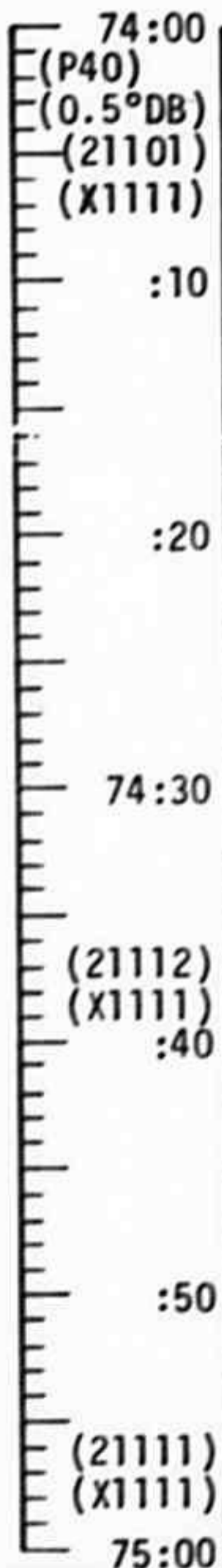
1354 CST

NOTES

SIM EXP STATUS
 (*0000)
 (31000)
 S-IVB LUNAR IMPACT
 GET: 74:30:08
 LAT: 2.28°S
 LONG: 31.79°W

 PREDICTED LOI SINGLE
 BANK BURN TIME:
6 MIN 29 SEC

RECORD VG IMU DATA
 GO/NO-GO FOR LOI



M
S
F
N

P40 SPS THRUSTING

GO/NO-GO FOR LOI

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

LOI

TIG: 74:28:38.5
 BT: 6 MIN 15 SEC
 Δ VT: 2807.0 FPS
 ULLAGE: NONE
 ORBIT: 170.6 x 58.5 NM

P00
 V66 SET CSM S.V. INTO LM S.V.
 V48 (21112)(X1111)
 V49 MNVR TO COMM ATT (74:49)
 (176,046,007)

POST-SPS BURN SIM PREP (CUE CARD)
 ACQ MSFN HGA P -57, Y 346

PC: MODE - STBY
 PWR - ON

REPORT: BURN STATUS
 V48 (21111)(X1111)
 PC: PWR - OFF (MSFN CUE)

BURN STATUS REPORT				
X	X		•	Δ TIG
X	X		•	BT
			•	V _{gx}
TRIM				
X	X	X		R
X	X	X		P
X	X	X		Y
			•	V _{gx}
			•	V _{gy}
			•	V _{gz}
			•	Δ V _c
X	X	X		FUEL
X	X	X		OX
X	X	X		UNBAL

MSFN CMDS:
 DUMP DSE

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	74:00 - 75:00	4/TLC-1	3-73

CSM FLIGHT PLAN

SIM EXP STATUS
(*0000)
(01214)

75:30
(P20)
(3.0°DB)
(21111)
(X1111)

MSFN UPLINK:
DESIRED ORIENT (LDG SITE)

SIM EXP STATUS
(*0000)
(01214)

GR: SHIELD - OFF

75:40

GR: SHIELD - ON (CTR)

CMC MODE - FREE
P52 (OPTION 3)
(LDG ORIENT)

REPORT: GYRO TORQUING ANGLES

75:50

P52 (OPTION 1)
(LDG SITE ORIENT)

P20, CMC MODE - AUTO
GDC ALIGN

CONFIGURE FOR URINE DUMP

76:00

P52 IMU REALIGN

N71:

N05:

N93:

X

Y

Z

GET

75:00

(21111)
(X1111)

75:10

75:20

(P20)
(3.0°DB)

75:30

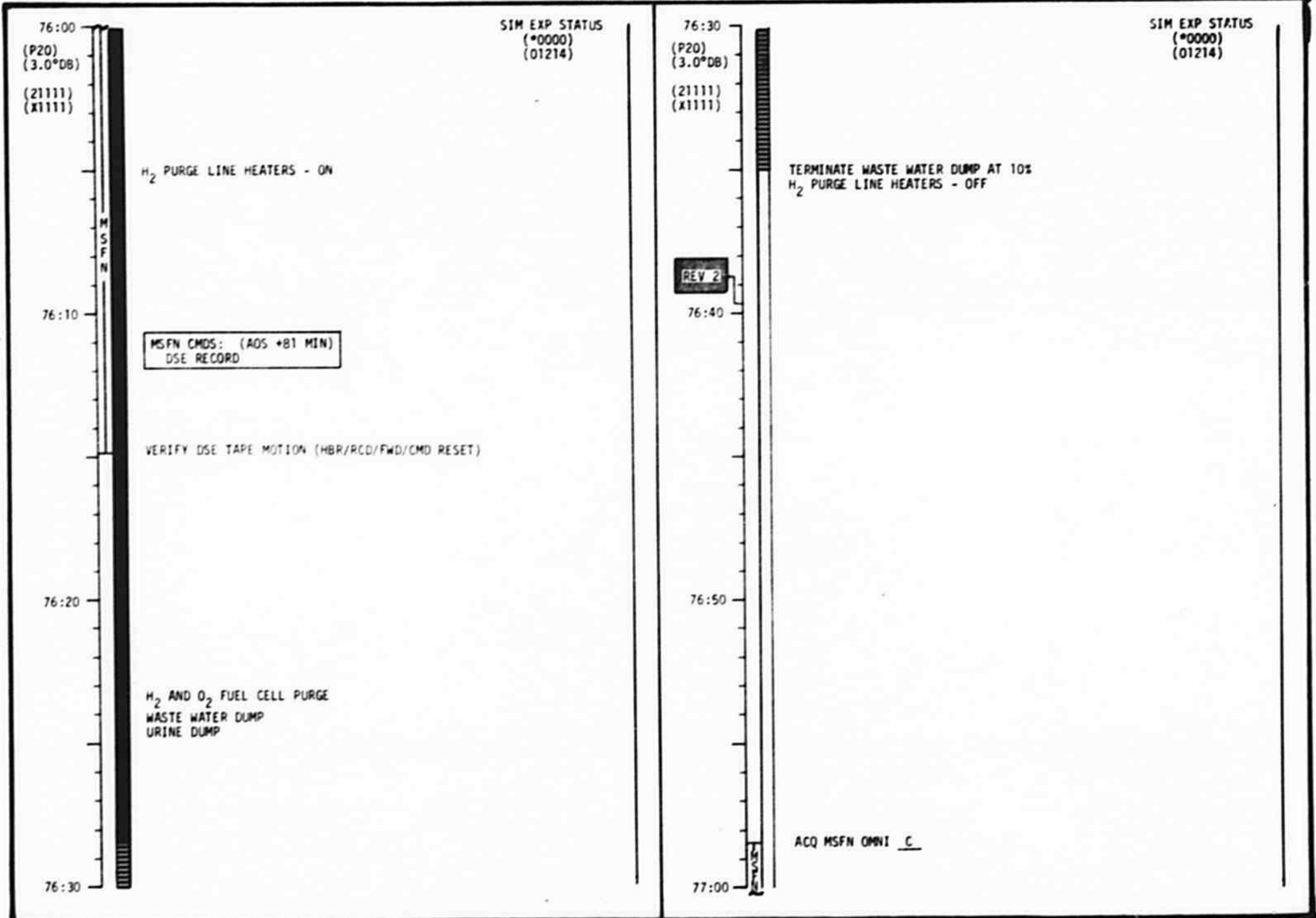
V44 (SET LUNAR SURFACE FLAG)
CYCLE CMC MODE - FREE/AUTO
P20 OPT 5 (+X FWD, -Z INT) (75:23)
N78 (+090.00)
 (+090.00)
 (+180.00)
N79 (+003.00)
 [176.000/046.007]

NOTE: PRO ON ~~N70~~ N70.
AT 75:23 TO
INSURE P20
ATT = INERTIAL ATT.

MSFN UPDATE:
TEI 4 TIG (IF REQD) AND GIMBAL ANGLES

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHG. B FINAL (4/16)	3/6/72 1/1/72	3-74

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-75

CSM FLIGHT PLAN

77:00
(P20)
(3.0°DB)
(21111)
(X1111)

77:10

77:20

77:30

MSFN CMDS: (AOS +2 MIN)
DSE REWIND

ACQ MSFN HGA: MAN, WIDE P 10, Y 355
S-BD ANT IND > 1/2 SCALE HGA: REACO, NARROW

MSFN CMDS: (AOS +10 MIN)
DSE PLAYBACK
CUE: HGA AUTO

PC: MODE - STBY
PWR - ON

PC PWR - OFF (MSFN CUE)

SIM EXP STATUS
(*0000)
(01214)

77:30
(P20)
(3.0°DB)
(21111)
(X1111)

77:40

77:50

(21111)
(X1111)

78:00

MSFN UPLINK:
DOI TARGET LOAD
CSM S.V. AND V66
PIPA BIAS

MSFN UPDATE:
DOI MVR PAD (78:15)
MAP UPDATE REV 3 (79:06)
J-2 LDMK OBS PAD (79:35)
TEI 5 PAD

Descartes
CM 9/EL/250/VHBN
(±5.6, 1/800, ∞) 6FR
MAG SS

P52 IMU REALIGN

N71: _____

N05: _____

N93: _____

X _____

Y _____

Z _____

GET _____

P00
P52 (OPTION 3)
(LDG SITE ORIENT)

REPORT: GYRO TORQUING ANGLES
GDC ALIGN

CSM SYSTEMS CHECKLIST

C/W OPERATIONAL CHECKS PAGE S/1-20
SPS MONITORING CHECK PAGE S/1-1
SM RCS MONITORING CHECK PAGE S/1-1
CM RCS MONITORING CHECK PAGE S/1-1
ECS MONITORING CHECK PAGE S/1-5

SIM EXP STATUS
(*0000)
(01214)

MISSION	EDITION	DATE	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	3-76

CSM FLIGHT PLAN

SIM EXP STATUS
(*0000)
(01214)

78:00
(21111)
(x1111)

(21101)
(x1111)

78:10

78:20

(P40)
(0.5"DB)

78:30

P30: VERIFY DOI TIG AND ΔV'S
CYCLE CMC MODE - FREE/AUTO
V48 (21101)(x1111)
P40

MSFN RECORD:
VG IMU DATA

P00
V49 MNVR TO DOI PAD BURN ATT (78:22)
ACQ MSFN OMNI D

MSFN CMDS:
DSE REWIND

PRE-SPS BURN SIM PREP (CUE CARD)

MSFN UPDATE:
GO/NO-GO FOR DOI

MSFN CMDS:
DSE RECORD

SXT STAR CHECK
P40 (TRIM)
VERIFY DSE TAPE MOTION (LBR/RCD/FWD/CMD RESET)

P30 MANEUVER

SET STARS	DOI					PURPOSE	
	S	P	S/G	&	N	PROP/GUID	
	.					WT	N47
R ALIGN		0	0	.		P TRIM	N48
P ALIGN		0	0	.		Y TRIM	
Y ALIGN	.	0	0			HRS	GETI
	.	0	0	0		MIN	N33
	.	0		.		SEC	
ULLAGE				.		ΔV _X	N81
				.		ΔV _Y	
				.		ΔV _Z	
	X	X	X			R	(000)
	X	X	X			P	(282)
	X	X	X			Y	(359)
	.			.		H _A	N44
				.		H _P	
	.			.		ΔVT	
HORIZON/WINDOW	X	X	X	.		BT	
	X			.		ΔVC	
	X	X	X	X		SXTS	
	.			.	0	SFT	
	.		.	0	0	TRN	
	X	X	X			BSS	
	X	X		.		SPA	
	X	X	X	.		SXP	
OTHER		0		.		LAT	N61
				.		LONG	
	.			.		RTGO	EMS
	.			.		VTD	
			.	.		GET	0.05G

CSM FLIGHT PLAN

SIM EXP STATUS

(•0000)
(31000)

NOTE: DOI WILL BE PERFORMED ON BANK A ONLY

DOI (000,180/282,359)	TIG: 78:35:30.3
	BT: 24.1 SEC
	ΔVT: 206.0 FPS
	ULLAGE: 4 JET, 15 SEC
	ORBIT: 58.6 x 10.8

POO
V66 SET CSM S.V. INTO LM S.V.

DELAY POST SPS BURN SIM PREP UNTIL 79:42

V49 MWR TO BAILOUT BURN ATTITUDE (79:10)
(000,040,000)
SET HGA P -58, Y 15 FOR ADS ACQ

UNSTOW AND STUDY LDMX BOOK

DOI BURN TABLE *NO MANUAL START*

P OR Y RATES	ATT DEVIATIONS	SHUTDOWN TIME	RESIDUALS
10°/SEC TERMINATE	+10° TERMINATE	BT	*TRIM OVERBURNS IN X TO WITHIN 1 FPS, DO NOT TRIM Y & Z

*IF OVERBURN IS > 2.2 FPS AND < 10 FPS PITCH 180° AND TRIM WITH *X RCS THRUSTERS, IF > 10 FPS USE SPS

BURN STATUS REPORT

X	X					ΔTIG
X	X					BT
						V _{gx}
TRIM						
X	X	X				R
X	X	X				P
X	X	X				Y
						V _{gy}
						V _{gz}
						ΔV _C
X						FUEL
X						OX
X						UNBAL

78:30
(P40)
(0.5°DB)

(21101)
(X1111)

(21101)
(X1111)

78:40

PEV 3

78:50

79:00

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	3-78

CSM FLIGHT PLAN

79:00
(21101)
(X1111)

SIM EXP STATUS
(*0000)
(31000)

MAP UPDATE REV 3

LOS : _____

180°: _____

AOS : _____

79:10

ACQ MSFN HGA P -58, Y 15

MSFN CMDS:
DSE STOP

REPORT: BURN STATUS

MSFN CMDS:
DSE REWIND

MSFN CMDS:
DSE PLAYBACK

MSFN UPDATE:
STAY/BAILOUT

NOTE: IF STAY, PROCEED WITH ACTIVITIES AT 79:27 IMMEDIATELY

79:20

MSFN

- *SC CONT - SCS
- *P47 THRUST MONITOR
- *BAILOUT BURN (000,083/040,000)

TIG: 79:22:07.9
BT: 11:05 SEC
ΔVC: 94.7 FPS
ULLAGE: 4 JET, 16 SEC
ORBIT: 62.6x5.3

- *P00
- *V66 SET CSM S.V. INTO LM S.V.

MSFN CMDS:
DSE REWIND

V49 MVNR TO LDMK OBS ATT (79:35)(IF NO BAILOUT REQD)
(015,292,000) OMNI D
LOAD N89 (J-2 OBS)

79:30

79:30
(21101)
(X1111)

SIM EXP STATUS
(*0000)
(31000)

P24 (ORB NAV MONITOR LDMK)(TAKE MARKS)
OPT ZERO - OFF
OPT MODE - CMC
OPT TEL TRUN - SLAVE TO SXT
OPT COUPLING - RSLV
OPT SPEED - HI

LDMK **J-2 OBS**

T HOR: _____

TCA -20 SEC: _____

LAT: -08.917
LONG/2: +12.241
ALT: +000.00

LDMK ACQUISITION
(TGT IN FOV ~1 MIN)

TCA

R (s N89 = -09.000,
V48 (21101)(X1111) **+07.745**

MSFN UPDATE:
MAP CAMERA PHOTO PAD (80:35)
PAN CAMERA PHOTO PAD (80:40)

POST SPS BURN SIM PREP (CUE CARD)

INHIBIT ALL JETS EXCEPT A1 & C2 OR D1 & B2,A3,C4,B3,D4
P20 OPT 5 (+X FWD SIM ATT) (79:59)
N79 (+000.50)
HGA P -21, Y 209

79:40

MSFN

79:50

CMP DOFF BIOMED HARNESS
LMP DON BIOMED HARNESS

CSM EXP/EVA CHECKLIST

SOLAR MONITOR DOOR/EXP TIEDOWN RELEASE, PAGE X/1-7

80:00

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	3-79

CSM FLIGHT PLAN

80:00
(P20)
(0.5°DB)
(21101)
(X1111)

MC/LA COVER - OPEN
AP/XR COVER - OPEN
MC - EXT
GR - DPLY (BP +2 SEC ONLY) then OFF (CTR)
GR - RETR
MS - DPLY (BP +2 SEC ONLY) then OFF (CTR)
MS - RETR
XR - ON

SIM EXP STATUS
(+0000)
(01214)
CAUTION: DO NOT EXCEED
12 SEC WITH
SWITCH IN
DEPLOY POSITION

REPORT: GAMMA RAY AND MASS SPECT BOOM
DEPLOY AND RETRACT COMPLETED

MS - DPLY TO 8.4 FEET (1 MIN 01 SEC)

LA - ON
MS: EXP - ON
ION SOURCE - STBY

MSFN CMDS: (AOS +61 MIN)
DSE RECORD

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

EAT PERIOD

80:10
M
S
F
N

80:20

80:30

80:30
(P20)
(0.5°DB)
(21101)
(X1111)

SIM EXP STATUS
(+1021)
(03232)

MAP CAMERA PHOTO PAD
T-START: _____ : _____ : _____
T-STOP: _____ : _____ : _____
(167.3°W TO 168.0°E)

PAN CAMERA PHOTO PAD
T-START: _____ : _____ : _____
T-STOP: _____ : _____ : _____
(167.3°W TO 168.0°E)

PC: STBY
STEREO
PWR

IMAGE MTN - ON
MC - ON (T START)
PC - OPR (T START)
IMAGE MTN - INCR (BP +1 STEP)/ON

REV 4

IMAGE MTN - INCR (BP +2 STEPS)/ON

EAT PERIOD

PC - STBY (T STOP)
MC - OFF (T STOP)
WAIT 30 SEC
MC - STBY
LA - OFF
IMAGE MTN - OFF
MC - RETR
MANUALLY ROLL CW 40°

P20 OPT 5 (-X FWD SIM ATT)(81:05)
N78 (+086.74)
(+052.20)
(+358.45)
N79 (+002.00)
SET HGA P 0, Y 170 FOR AOS ACQ

MC/LA COVER - CLOSE
MS - DPLY
GR - DPLY

80:40

80:50
(P20)
(2.0°DB)

81:00

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	3-80

CSM FLIGHT PLAN

81:00
(P20)
(2.0°DB)
2
(21101)
(X1111)

LOOK FOR BOOMS AT FULL DEPLOYMENT

SIM EXP STATUS (-0111) (11232)

CONFIGURE DSE (STOP/CMD RESET/REWIND)(AOS -3 MIN)

EAT PERIOD

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

MSFN CUE: (AOS +4 MIN) HGA AUTO

MS: ION SOURCE - ON
MULT - LOW (VERIFY)
DSCRM - LOW (VERIFY)

MSFN COMDS: (AOS +5 MIN) DSE PLAYBACK

GR: SHIELD - OFF
MS: MULT - HIGH

PC: PWR - OFF (MSFN CUE)

81:10

81:20 MS: DSCRM - HIGH

GR: GAINSTEP - ON(UP) 6 STEPS (STEP 1)/SHIELD - ON (CTR)
MS: MULT - LOW

81:30 MS: DSCRM - LOW

81:30
(P20)
(2.0°DB)
2
(21101)
(X1111)

SIM EXP STATUS (-0111) (01222)

NOTE: LIFT-OFF TIME WILL BE UPDATED IF THE TIME OF REV 26 MERIDIAN CROSSING DIFFERS MORE THAN +2 MIN FROM 123:28:33.1

MSFN UPDATE:
TRAJECTORY STATUS
REFSMAT 00 TIME (IF REQD)
TEI 12 AND TEI 19
LM DAP LOAD (COPY ON PAGE 1 IN THE LM DATA CARD BOOK)

MSFN UPLINK:
SHORT BURN CONSTANTS
CSM S.V. AND V66
LIFT-OFF TIME (IF REQD)
DESIRED ORIENT (LDG SITE) (IF REQD)

SYNCHRONIZE MISSION TIMER TO CMC (IF REQD)
VOSNOTE, 1706E (T EPHEM VERIFICATION BY MSFN, COPY ON MSFN CUE FROM DSKY)

CMC MODE - FREE
P52 (OPTION 3) (LDG SITE ORIENT)

REPORT: GYRO TORQUING ANGLES

P52 (OPTION 1)(IF REQD) (LDG SITE ORIENT)

81:40

81:50 P20, CMC MODE - AUTO
GDC ALIGN

L10H CANISTER CHANGE (9 INTO A, STOW 7 IN B6)

MSFN UPLINK:
JET-ON MONITOR LOADS

MSFN COMDS: (AOS +54 MIN) DSE REWIND

82:00 PRESSURE EQUALIZATION VALVE - CLOSE

T EPHEM UPDATE	
OID	LOAD B
03	---
04	---
05	---

REFSMAT 00 TIME				
+	0	0		HRS
+	0	0	0	MIN
+	0			SEC

P52 IMU REALIGN

N71: ---, ---

N05: ---, ---

N93: ---, ---

X ---, ---

Y ---, ---

Z ---, ---

GET ---, ---

CSM FLIGHT PLAN

SIM EXP STATUS
(-0111)
(01222)

82:00
(P20)
(27.0°DB)
2
(21101)
(X1111)

CSM SYSTEMS CHECKLIST

PRE-SLEEP CHECKLIST PAGE 5/1-29

LOGIC PWR (2) - OFF

MSFN CMDS: (AOS +61 MIN)
DSE RECORD

SIM EXP STATUS
(-0111)
(01222)

ONBOARD READOUT

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

82:30
(P20)
(27.0°DB)
2
(21101)
(X1111)

REV 5

82:40

82:50

83:00

82:10

82:20

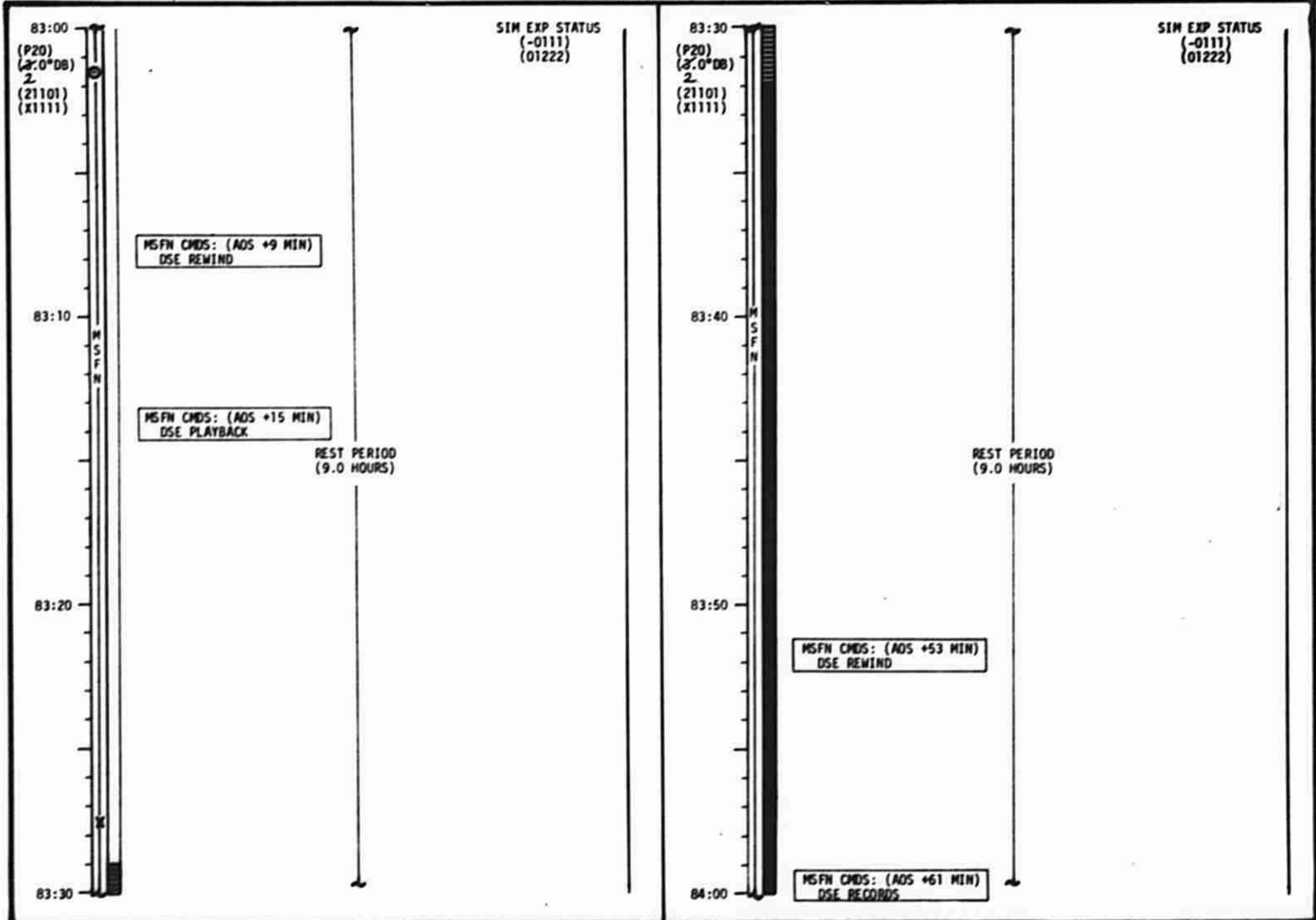
82:30

FILM MAGS REQD FOR NEXT DAY!
DAC: CEX-BB & CC
EL: CEX-NN & PP, UV-00, VHBW-SS
NK: VHBW-XX

REST PERIOD
(9.0 HOURS)

MISSION	EDITION	DATE	PAGE
APOLLO 16	B CHANGE A 4/16 (4/16)	5/10/72 4/7/72	3-82

CSM FLIGHT PLAN



SIM EXP STATUS
(-0111)
(01222)

SIM EXP STATUS
(-0111)
(01222)

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A-FINAL (4/16)	3/27/72 3/16/72	3-83

CSM FLIGHT PLAN

84:00
 (P20)
 (2.0°DB)
 2
 (21101)
 (X1111)

84:10

84:20

84:30

M
S
F
N

REST PERIOD
(9.0 HOURS)

SIM EXP STATUS
(-0111)
(01222)

84:30
 (P20)
 (2.0°DB)
 2
 (21101)
 (X1111)

84:40

84:50

85:00

REV 6

M
S
F
N

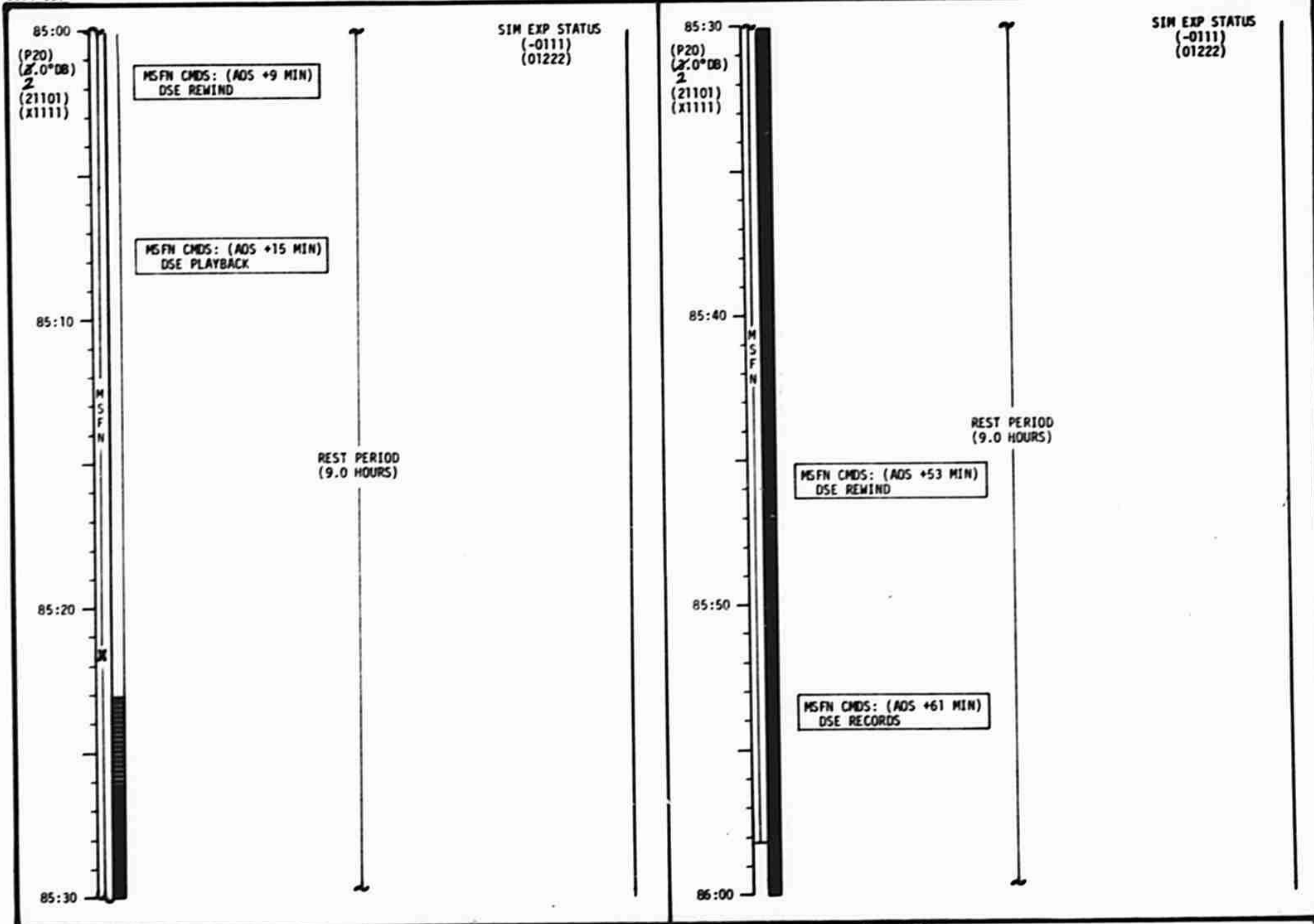
REST PERIOD
(9.0 HOURS)

SIM EXP STATUS
(-0111)
(01222)

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A FINAL (4/16)	3/27/72 3/6/72	3-84

CSM FLIGHT PLAN

0054 CST



SIM EXP STATUS
(-0111)
(01222)

SIM EXP STATUS
(-0111)
(01222)

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A FINAL (4/16)	3/27/72-216172	3-85

CSM FLIGHT PLAN

86:00
 (P20)
 (2.0°DB)
 2
 (21101)
 (X1111)

86:10

86:20

REV 7

86:30

SIM EXP STATUS
 (-0111)
 (01222)

REST PERIOD
 (9.0 HOURS)

86:30
 (P20)
 (2.0°DB)
 2
 (21101)
 (X1111)

86:40

86:50

MSFN

87:00

SIM EXP STATUS
 (-0111)
 (01222)

REST PERIOD
 (9.0 HOURS)

MSFN CMDS: (AOS +9 MIN)
 DSE REWIND

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE FINAL (4/16)	3/27/72 316172	3-86

CSM FLIGHT PLAN

0254 CST

87:00
(P20)
(8.0°DB)
2
(21101)
(X1111)

MSFN CMDS: (AOS +15 MIN)
DSE PLAYBACK

SIM EXP STATUS
(-0111)
(01222)

87:30
(P20)
(8.0°DB)
2
(21101)
(X1111)

SIM EXP STATUS
(-0111)
(01222)

87:10

M
S
F
N

REST PERIOD
(9.0 HOURS)

87:20

87:30

87:40

M
S
F
N

MSFN CMDS: (AOS +53 MIN)
DSE REWIND

REST PERIOD
(9.0 HOURS)

87:50

MSFN CMDS: (AOS +61 MIN)
DSE RECORD

88:00

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A FINAL (4/16)	3/27/72-316-72	3-87

CSM FLIGHT PLAN

SIM EXP STATUS
(-0111)
(01222)

SIM EXP STATUS
(-0111)
(01222)

88:00
(P20)
(7.0°DB)
2
(21101)
(X1111)

88:30
(P20)
(7.0°DB)
2
(21101)
(X1111)

REST PERIOD
(9.0 HOURS)

REST PERIOD
(9.0 HOURS)

REV 8

88:20

88:40

MSFN CMDS: (AOS +9 MIN)
DSE REWIND

88:50
M
S
F
N

MSFN CMDS: (AOS +15 MIN)
DSE PLAYBACK

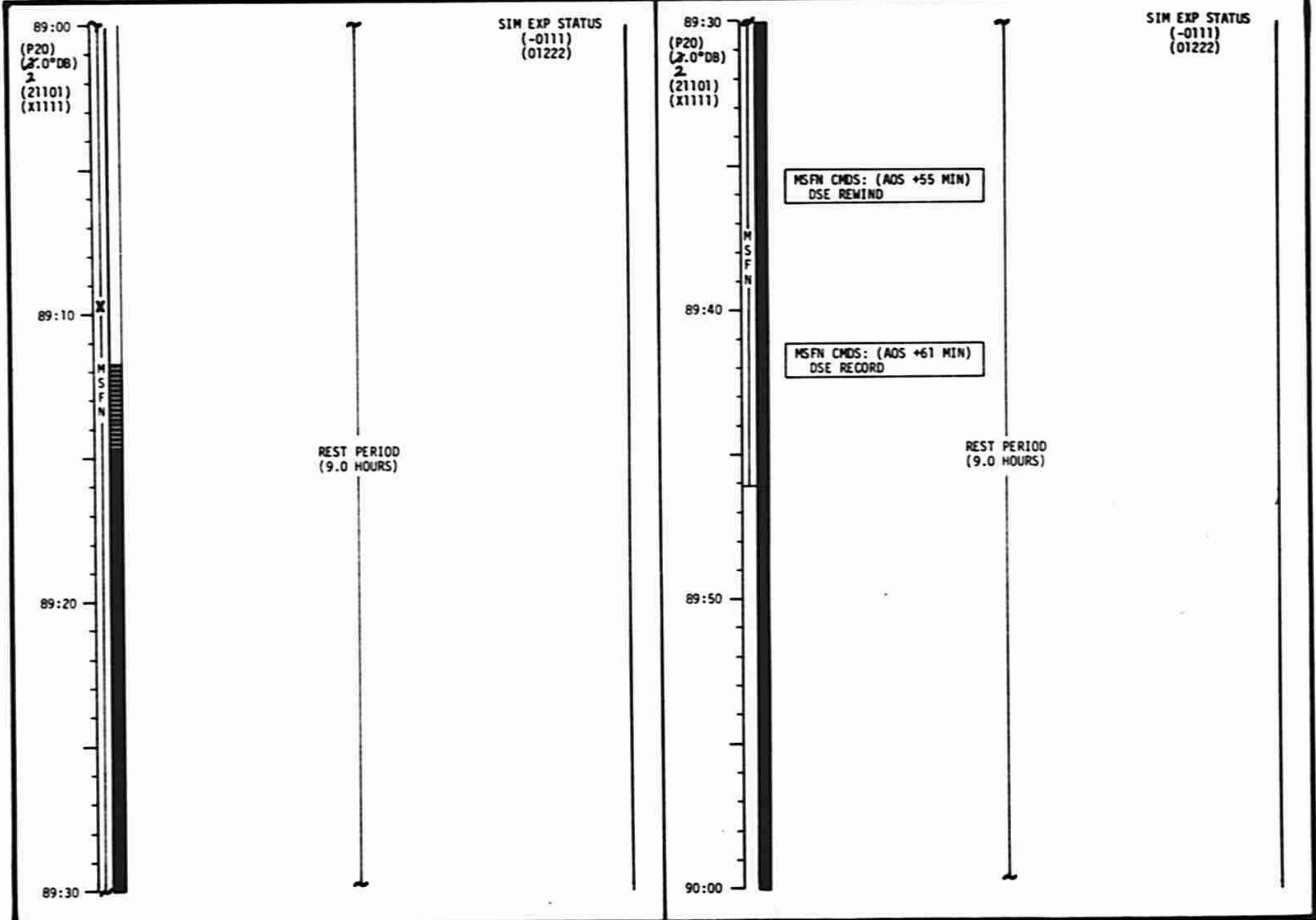
88:30

89:00

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A FINAL (4/16)	3/27/72-3/6/72	3-88

CSM FLIGHT PLAN

0454 CST



89:00
(P20)
(2.0°DB)
2
(21101)
(X1111)

SIM EXP STATUS
(-0111)
(01222)

89:30
(P20)
(2.0°DB)
2
(21101)
(X1111)

SIM EXP STATUS
(-0111)
(01222)

MSFN CMDS: (AOS +55 MIN)
DSE REWIND

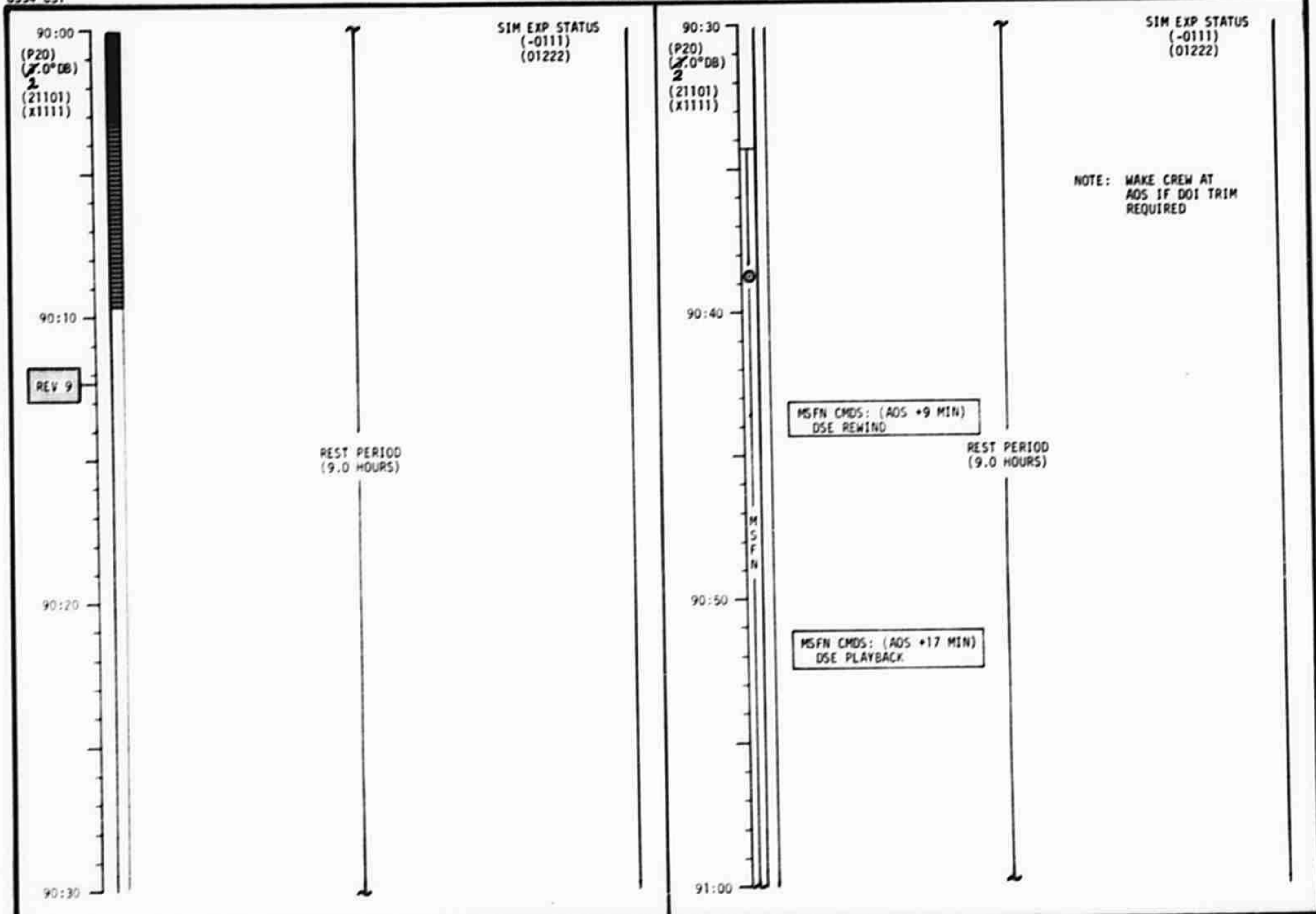
MSFN CMDS: (AOS +61 MIN)
DSE RECORD

REST PERIOD
(9.0 HOURS)

REST PERIOD
(9.0 HOURS)

MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A FINAL (4/16)	3/27/72 216+72	3-89

CSM FLIGHT PLAN



MISSION	EDITION	DATE	PAGE
APOLLO 16	CHANGE A FINAL (4/16)	3/27/72 216172	3-90