

FLIGHT PLAN

TIME	EVENT	REMARKS
-00:09	LCC: <u>REPORT</u> IGNITION	<u>CREW POSITIONS @ L/O</u> CDR - LH COUCH CMP - CENTER COUCH LMP - RH COUCH
00:00	LCC: CDR: <u>REPORT</u> LIFT-OFF	
00:02	CDR: <u>REPORT</u> YAW MNVR	
00:11	CDR: <u>REPORT</u> ROLL AND PITCH PROGRAM	LIFTOFF 1022 CST NOVEMBER 14, 1969, 72.1° L.A. TARGETED FOR LANDING SITE 7.
00:30	CDR: <u>REPORT</u> ROLL COMPLETE	
00:42	MCC: <u>REPORT</u> MARK MODE IB	PROP DUMP TO RCS CMD
00:50	LMP: <u>REPORT</u> CABIN PRESS DECREASING	ALTITUDE 14,000 ft
01:24	MAX Q	
01:57	MCC: <u>REPORT</u> MARK MODE IC	ALTITUDE 100,000 ft
02:00	MCC: CDR: <u>REPORT</u> GO/NO-GO FOR STAGING	
02:16	CDR: <u>REPORT</u> INBOARD ENGINES CUTOFF	
02:42	CDR: <u>REPORT</u> OUTBOARD ENGINES CUTOFF	
02:43	CDR: <u>REPORT</u> STAGING	
02:44	CDR: <u>REPORT</u> S-II IGNITION	
03:13	CDR: <u>REPORT</u> S-II SEP LT OUT	
03:18	CMP: <u>REPORT</u> TOWER JETT	
	MCC: <u>REPORT</u> MODE II	
	CDR: <u>REPORT</u> S/C GO/NO-GO	

MISSION

APOLLO 12

EDITION

FINAL (NOV 14)

DATE

OCTOBER 15, 1969

PAGE 3-1

FLIGHT PLAN

TIME	EVENT	REMARKS
03:23	CDR: <u>REPORT</u> GUIDANCE INITIATE	
03:53	MCC: <u>REPORT</u> TRAJECTORY GO/NO-GO	
04:00	CMP: <u>REPORT</u> S/C GO/NO-GO	
05:00	LMP: <u>REPORT</u> S/C GO/NO-GO	
05:25	MCC: <u>REPORT</u> S-IVB TO COI CAPABILITY	
06:00	CDR: <u>REPORT</u> S/C GO/NO-GO	
06:25	MCC: <u>REPORT</u> S/C GO/NO-GO	
	MCC: <u>REPORT</u> TIME OF LEVEL SENSE ARM AND S-II CUTOFF	
07:00	CDR: <u>REPORT</u> S/C GO/NO-GO	
08:00	CDR: <u>REPORT</u> S/C GO/NO-GO	
08:30	MCC & CDR: <u>REPORT</u> S/C GO/NO-GO FOR STAGING	
09:00	MCC: <u>REPORT</u> MARK MODE IV	
09:11	CDR: <u>REPORT</u> S-II CUTOFF	
09:14	CDR: <u>REPORT</u> S-II S-IVB STAGING	
09:17	CDR: <u>REPORT</u> S-IVB IGNITION	
10:00	MCC & CDR: REPORT GO/NO-GO FOR ORBIT	
	MCC: <u>REPORT</u> PREDICTED SECO	

MISSION APOLLO 12

EDITION FINAL (NOV 14)

DATE OCTOBER 15, 1969

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FLIGHT PLAN

TIME	EVENT	REMARKS
11:00	CDR: <u>REPORT</u> S/C GO/NO-GO	
11:29	CDR: <u>REPORT</u> SECO TB₅ = 0 S-IVB MAINTAINS COMMANDED CUTOFF INERTIAL ATTITUDE	
SECO +10 SEC	MCC: <u>REPORT</u> ORBITAL GO/NO-GO	INSERTION
SECO +20 SEC	S-IVB MANEUVERS TO LH AND INITIATES ORB RATE (HEADS DOWN)	
SECO +59 SEC	S-IVB INITIATES CONTINUOUS LH ₂ VENTING (TERMINATES AT TB ₆ + 42.2 SEC GET = 2:38:24)	
	V66-TRANSFER CSM STATE VECTOR TO LM SLOT V45-RESET LUNAR SURFACE FLAG	
12:50	BDA LOS INSERTION CHECKLIST	
16:04	VAI LOS	
16:37	CYI AOS <u>MCC UPDATE:</u> Z TORQUING ANGLE	
23:44	CYI LOS SYSTEM MONITORING & CHECKING POST INSERTION ECS CONFIGURATION	

FLIGHT PLAN

TIME	EVENT	REMARKS
31:31	CONFIGURE CAMERA FOR T&D AND S-IVB PHOTO <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; margin: 5px 0;"> CM2/DAC/18/CEX-BRKT, MIR (f8,250,7) 6fps, 0.3 MAG (5 MIN) </div> <div style="border-left: 1px solid black; border-right: 1px solid black; padding: 5px; margin: 5px 0;"> CM2/EL/80/CEX (f8,250,30) 10 </div> UNSTOW TV CAMERA PRE-TLI SYSTEM VERIFICATION AND MONITORING CDR INSTALL COAS CMP JETTISON OPTICS COVERS P52 IMU REALIGN Option 3-REFSMAT REPORT GYRO TORQUING ANGLES	LMP HOLDS CAMERA REALIGNS TO PAD ORIENTATION
52:20	CRO AOS DUMP DSE GDC ALIGN TO IMU	
58:11	CRO LOS	<div style="border: 1px solid black; padding: 5px; margin-top: 20px;"> IMU REALIGN P52 N71: _____ N05: _____ N93: _____ X _____. Y _____. Z _____. GET _____ : _____ : _____ </div>

MISSION APOLLO 12

EDITION FINAL (NOV 14)

DATE OCTOBER 15, 1969

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MCC-H

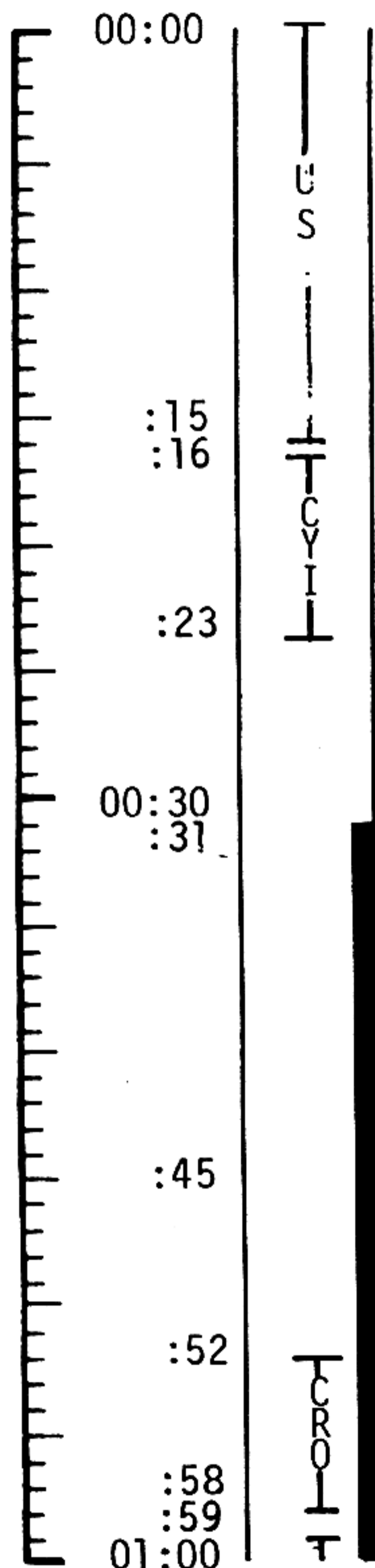
1022 CST

FLIGHT PLAN

NOTES

UPDATE TO CSM
Z TORQUING ANGLE

DUMP DSE



U
S
C
Y
I
L
O
R
C
T

LIFTOFF 14 NOV 1969

SECO

INSERTION CK LIST

SYSTEMS MONITORING & CHECKING

PRE-TLI SYSTEM VERIFICATION
AND MONITORING

SETUP CAMERA EQUIPMENT

IMU REALIGN - P52
(OPTION 3 - REFSMMAT)

REPORT GYRO TORQUING ANGLES
GDC ALIGN TO IMU

LIFTOFF CREW POSITIONS
LEFT COUCH - CDR
CENTER COUCH - CMP
RIGHT COUCH - LMP
AT SECO+20 SEC, SIV-B
MNVRS TO LH AND
INITIALIZES ORB RATE
(HEADS DOWN)

COOLANT CONTROL ATTEN-
UATION PANEL NOT
OPENED

P52 (PAD ORIENT)
N71: _____
N05: _____
N93: _____
X _____
Y _____
Z _____
GET _____ : _____ : _____

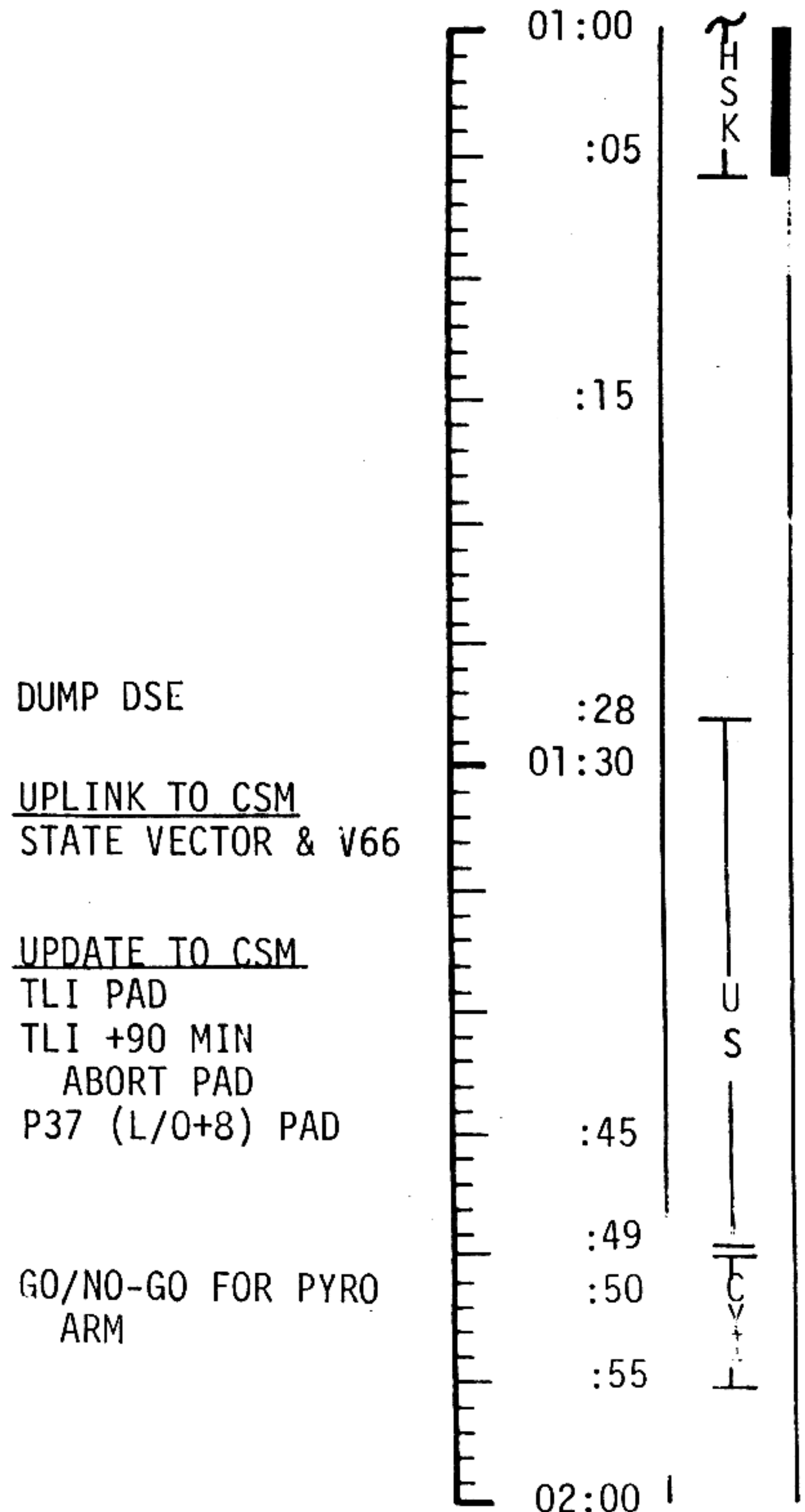
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	00:00 - 01:00	1/1	3-1

MCC-H

1122 CST

FLIGHT PLAN

NOTES



SCS ATT REF COMPARISON CK
EXTEND DOCKING PROBE

SM RCS HOT FIRE
(MIN IMPULSE - ALL JETS)
GO/NO GO FOR PYRO ARM (CUE MSFN)
LOGIC-ON
BEGIN TLI PREP

EMS ΔV TEST

AS A GENERAL RULE,
MSFN WILL ALWAYS
UPLINK THE STATE
VECTOR TO THE CSM
SLOT AND TRANSFER
IT VIA V66 TO THE
LM SLOT IN ORDER TO
HAVE REDUNDANT STATE
VECTORS ONBOARD

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	01:00 - 02:00	1/1-2	3-2

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FLIGHT PLAN

TLI
BURN TABLE

P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC SHUTDOWN	+45° SHUTDOWN	BT + 6 SEC & $V_i = \text{PAD VALUE}$	NO TRIM

TABLE 3-1
3-3

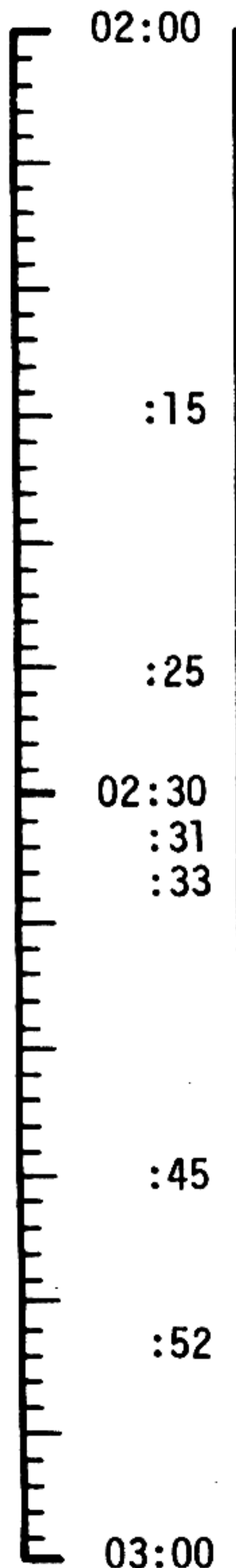
MCC-H

1222 CST

FLIGHT PLAN

NOTES

GO/NO GO



COUCH

MISSION

PYRO ARM

GDC ALIGN TO IMU

SET ORDEAL

GO/NO GO FOR TLI

TB-6 (02:37:41.8)

P47 - THRUST MONITOR

TLI

P00 - CMC IDLING

V66 - TRANS CSM SV TO LM SLOT

TLI BURN STATUS REPORT

CDR - TRANS TO CENTER COUCH, CMP - LEFT COUCH

LMP - RIGHT COUCH

TIG: 02:47:19.8
 BT: 5:45.0
 ΔV: 10,510 FPS

AT SECO: SIVB INERTIAL
 AT SECO+20 SEC: SIVB
 TO LOCAL HORIZONTAL
 ORB RATE, HEADS DOWN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	02:00 - 03:00	1/TLC	3-4

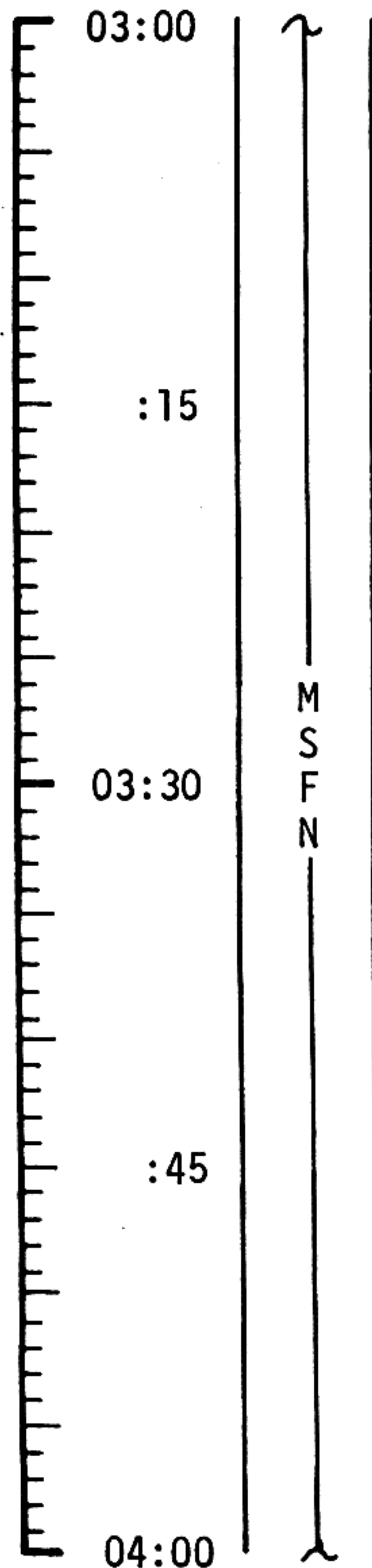
MCC-H

1322 CST

FLIGHT PLAN

NOTES

GO/NO GO FOR T&D



WASTE STOWAGE VENT - CLOSED
 DIRECT O₂ VLV-OPEN UNTIL CAB~ 5.7 PSI, THEN CLOSE
 GDC ALIGN TO IMU
 SIVB MNVRS TO CSM/SIVB SEP ATT BY 03:11 R 356
 S-BAND ANT - OMNI P 92
 S-BAND ANT OMNI - B Y 332
 ACTIVATE AND LOAD DAP (11102, 01111)
 LOAD DOCKING GIMBAL ANGLES
 CSM SEP PREPARATION R 304 HGA
 P 272 P-20
 Y 28 Y290
 CSM MNVR TO DOCK ATT BY 03:28
 HGA TRACK - REACQ
 HGA BEAM - WIDE
 TV (GDS) 03:28 TO 04:30 CM4-IN, BRKT (f22)
 VISUALLY INSPECT AND PHOTOGRAPH SIVB AND LM
 DOCK GET: 03:33

SWITCH TO OMNI C
 DURING THE MNVR
 TO THE DOCKING
 ATTITUDE

T & D MNVR
 +X 0.8 FPS, AFTER
 15 SEC -X 0.3 FPS.
 V49 AUTO MNVR TO DOCKING
 ATT. NULL TRANSLATION
 AND RATES, +X TO CLOSE
 AT 0.25 TO 0.5 FPS.

BEGIN CSM/LM CABIN PRESSURE EQUALIZATION

CDR: CONFIGURE FOR LM EJECTION
 TUNNEL PRESSURE INTEGRITY CHECK
 WASTE STOWAGE VENT VALVE - VENT
 REMOVE AND TEMPORARILY STOW TUNNEL HATCH
 CHECK DOCKING LATCHES
 VENT DOCKING PROBE
 LM UMBILICAL CONNECTION
 REINSTALL TUNNEL HATCH
 LM TUNNEL VENT VLV - LM/CM ΔP
 LEAVE TUNNEL EQUALIZATION VALVE CLOSED
 CYCLE O₂ & H₂ FANS

CAMERA SETTINGS FOR LM EJECTION:

CM 2/DAC/18/CEX - BRKT,
 MIR (f8,250,7) 12 fps,
 0.7 MAG (6MIN)

CM 4/EL/80/ CEX-
 (f8,250,30)5

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	03:00 - 04:00	1/TLC	3-5

MCC-H

1422 CST

FLIGHT PLAN

NOTES

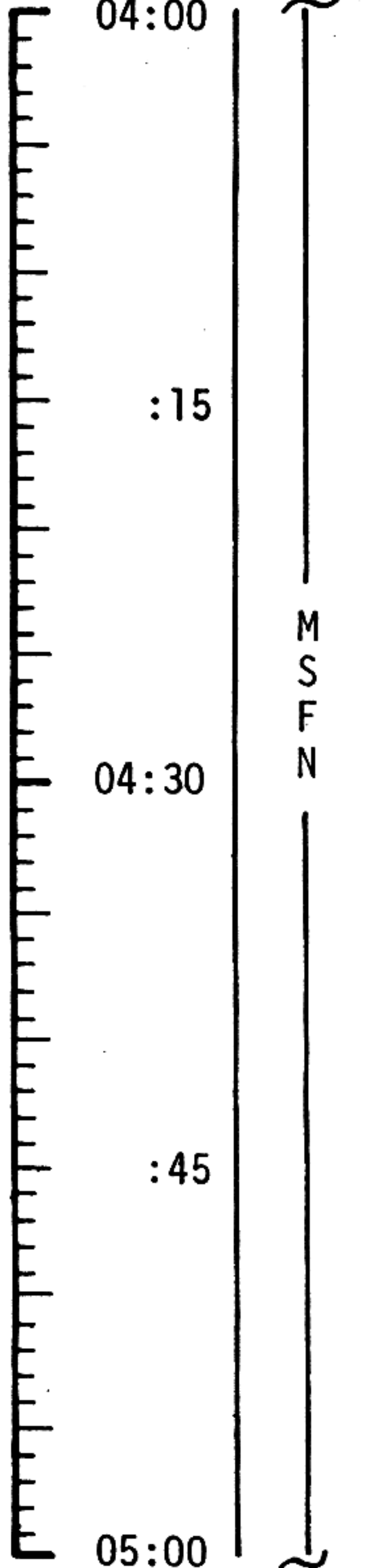
GO/NO GO FOR
PYRO ARM AND
CSM/LM EJECTION

(TLI CUTOFF +
1 HR 20 MIN)

UPDATE TO CSM
S-IVB EVASIVE
MNVR GO/NO GO

DUMP DSE

(TLI CUTOFF +
1 HR 53 MIN)



GO/NO-GO PYRO ARM (CUE MSFN)
 LOGIC ON
 LOAD DAP (21101, 11111)
 PYRO ARM
 P47 - THRUST MONITOR
 PHOTOGRAPH LM EJECTION

CSM/LM EJECTION
 MNVR TO ACQUIRE S-IVB IN HATCH
 WINDOW BY 04:18

R 96
 P 277
 Y 344

OMNI D

TIG: 04:13:19.8
 BT: 3 SEC
 ΔV: 0.4 FPS

S-IVB APS EVASIVE MNVR GET = 04:25

ΔV ≈ 9.6 FPS

BATTERY CHARGE, BATTERY B

CONTINUE TO MONITOR S-IVB THROUGH
 WINDOW UNTIL COMPLETION OF SLINGSHOT
 MANEUVER

S-IVB SLINGSHOT MNVR GET = 04:46

SPRING ACTUATOR
 ΔV ≈ 0.8 FPS. 4 JET
 RCS -X TRANSLATION
 0.4 FPS FOR A TOTAL
 ΔV ≈ 1.2 FPS.
 5 SEC AFTER EJECTION
 THERE IS AN RCS -X
 TRANSLATION FOR 3 SEC.

SLINGSHOT ΔV
 = 68.7 FPS

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	04:00 - 05:00	1/TLC	3-6

MCC-H

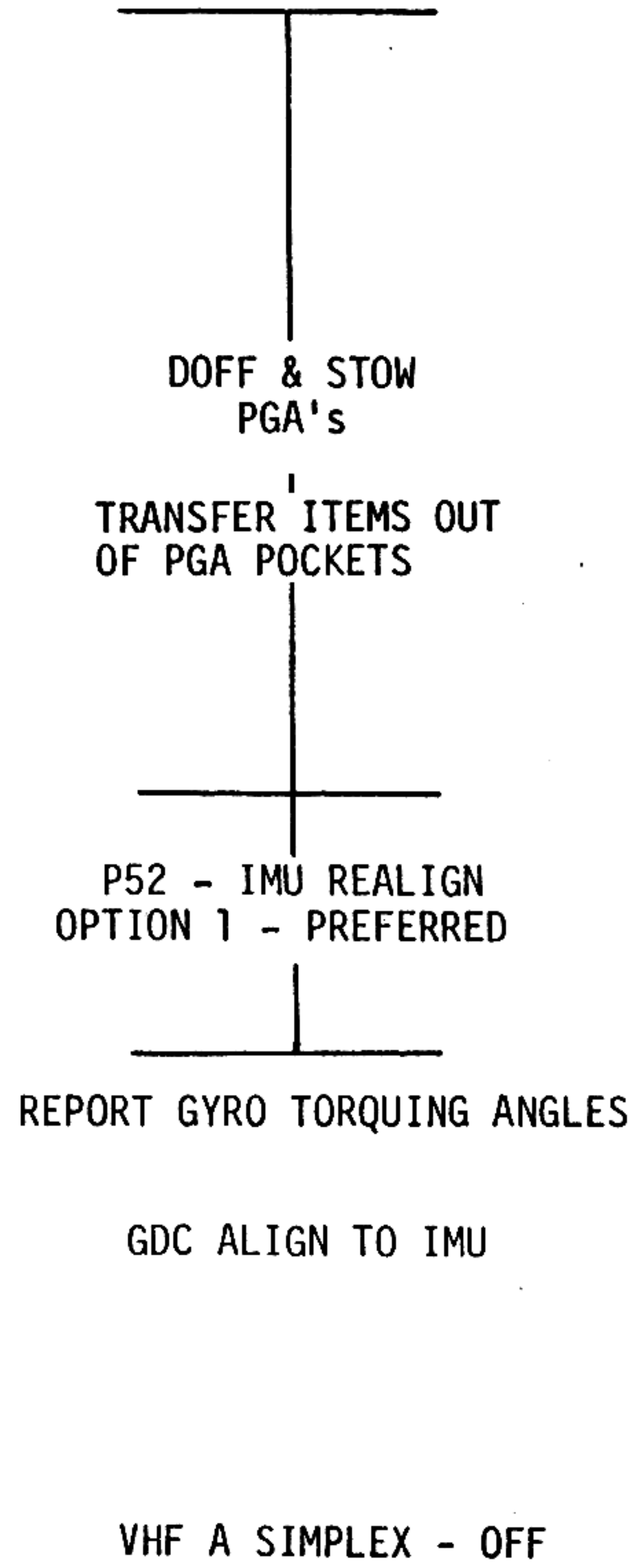
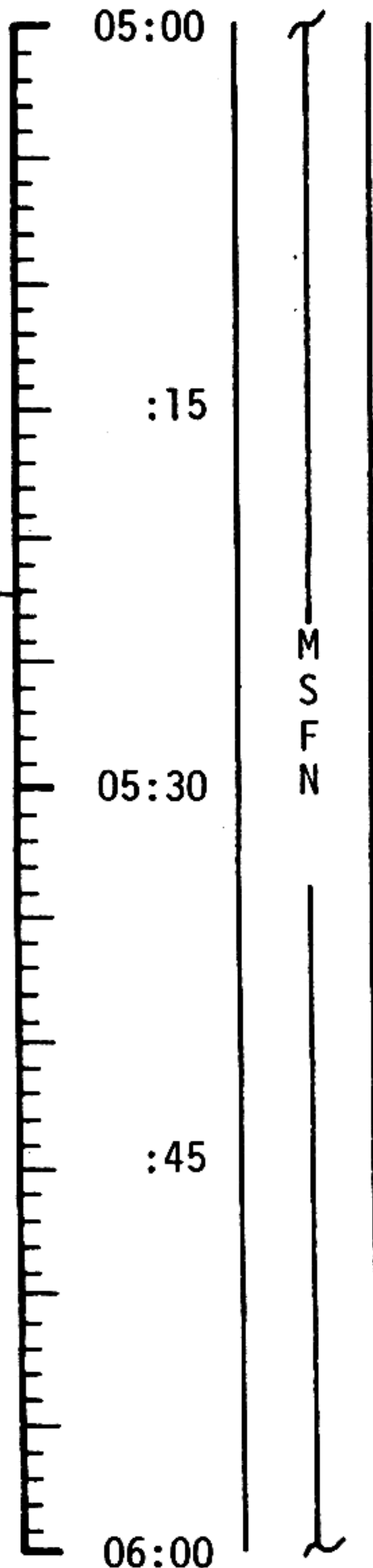
1522 CST

FLIGHT PLAN

NOTES

UPLINK TO CSM
DESIRED ORIENTATION
(PTC)
ZERO TRUNION BIAS

UPDATE TO CSM
P37 PAD (L/O+15)



P52 (PTC ORIENT)

N71: _____

N05: _____

N93: _____

X _____

Y _____

Z _____

GET _____:_____:_____

P 37 PAD ASSUMES
NO MCC-1

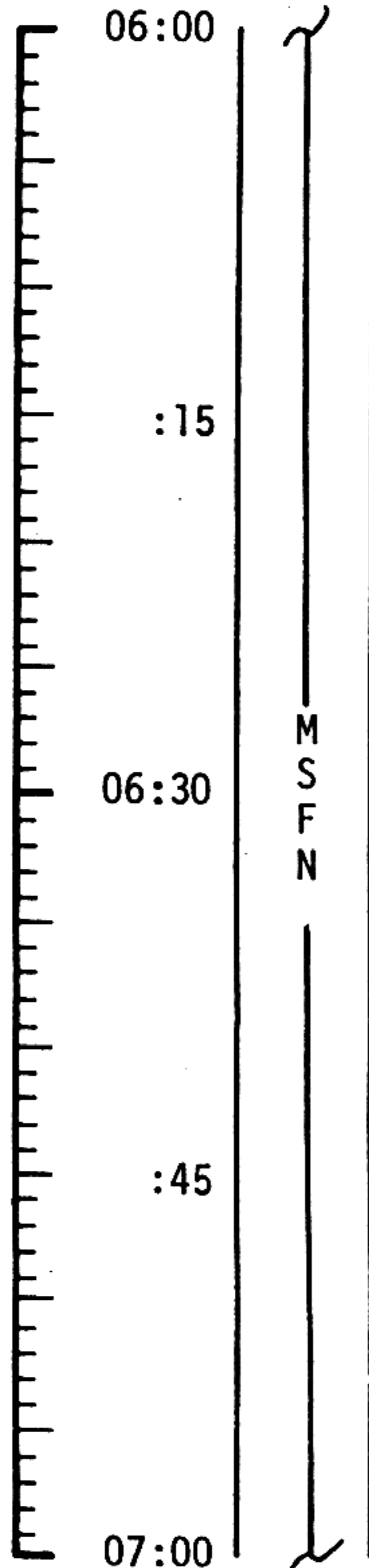
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	05:00 - 06:00	1/TLC	3-7

MCC-H

1622 CST

FLIGHT PLAN

NOTES



MNVR TO OPTICS CALIBRATION ATT
 P23 - CISELUNAR NAVIGATION
 OPTICS CALIBRATION
 STAR 1 5

R 204
 P 262
 Y 0

P00
 V49 - MNVR TO SIGHTING ATT
 STAR/EARTH HORIZON
 P23 - CISELUNAR NAVIGATION

R 159
 P 282
 Y 0

LOAD W MATRIX (R1 + 8 0 0 0 0) (R2 + 0 0 0 7 0)
 1. STAR 2 3 E N H (R3 = 0 0 1 1 0)

3 MARKS ON EACH STAR

INCORPORATE P23
 MARK DATA AND
 UPDATE ONBOARD
 STATE VECTOR

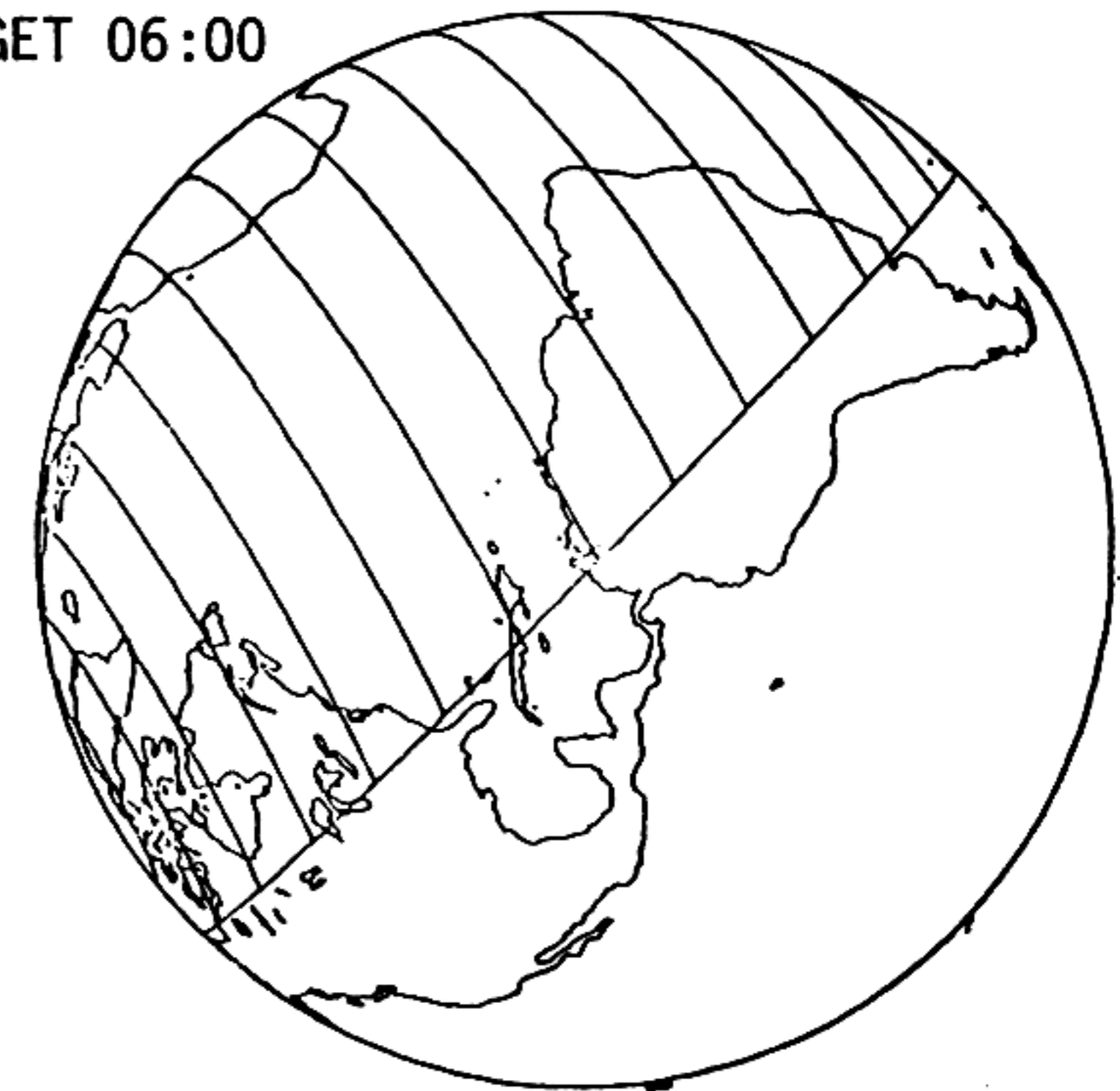
2. STAR 1 5 E F H (R3 = 0 0 1 2 0)

3. STAR 2 4 E N H (R3 = 0 0 1 1 0)

4. STAR 2 4 E N H (R3 = 0 0 1 1 0)

5 STAR 1 6 E F H (R3 = 0 0 1 2 0)

FOV 16°
 GET 06:00



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	06:00 - 07:00	1/TLC	3-8

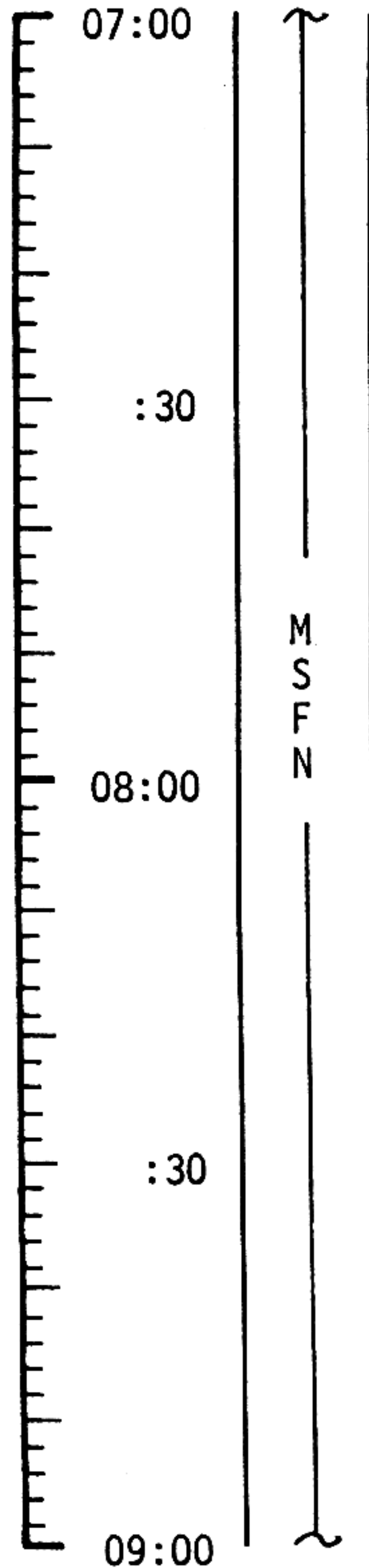
MCC-H

1722 CST

FLIGHT PLAN

NOTES

UPDATE TO CSM
QUADS TO DISABLE
FOR PTC (LOWEST
QUANTITY PRPLNT)



MNVR TO PTC ATTITUDE

P	90
Y	0

ESTABLISH PTC

DEACTIVATE PRIMARY EVAPORATOR
 GLY EVAP H₂O FLOW - OFF (CRT)
 GLY EVAP STM PRESS AUTO - MAN
 GLY EVAP STM PRESS INCR - INCR FOR 1 MIN

SELECT NORMAL LUNAR COMM EXCEPT:
 S-BD AUX TAPE - OFF
 TAPE RCDR FWD - OFF

PTC

P	90	Y	0
---	----	---	---

MANEUVER TO PTC
 ATTITUDE-DISABLE TWO
 ADJACENT QUADS-NUL
 RATES IN +.5°DB FOR
 20 MINUTES-WIDEN DEAD
 BAND TO +30°, ENABLE
 ALL JETS AND ROLL VE-
 HICLE AT 0.3°/SEC,
 DISABLE JETS

LiOH CANISTER CHANGE NO. 1
(3 INTO A, STOW 1 IN B5)

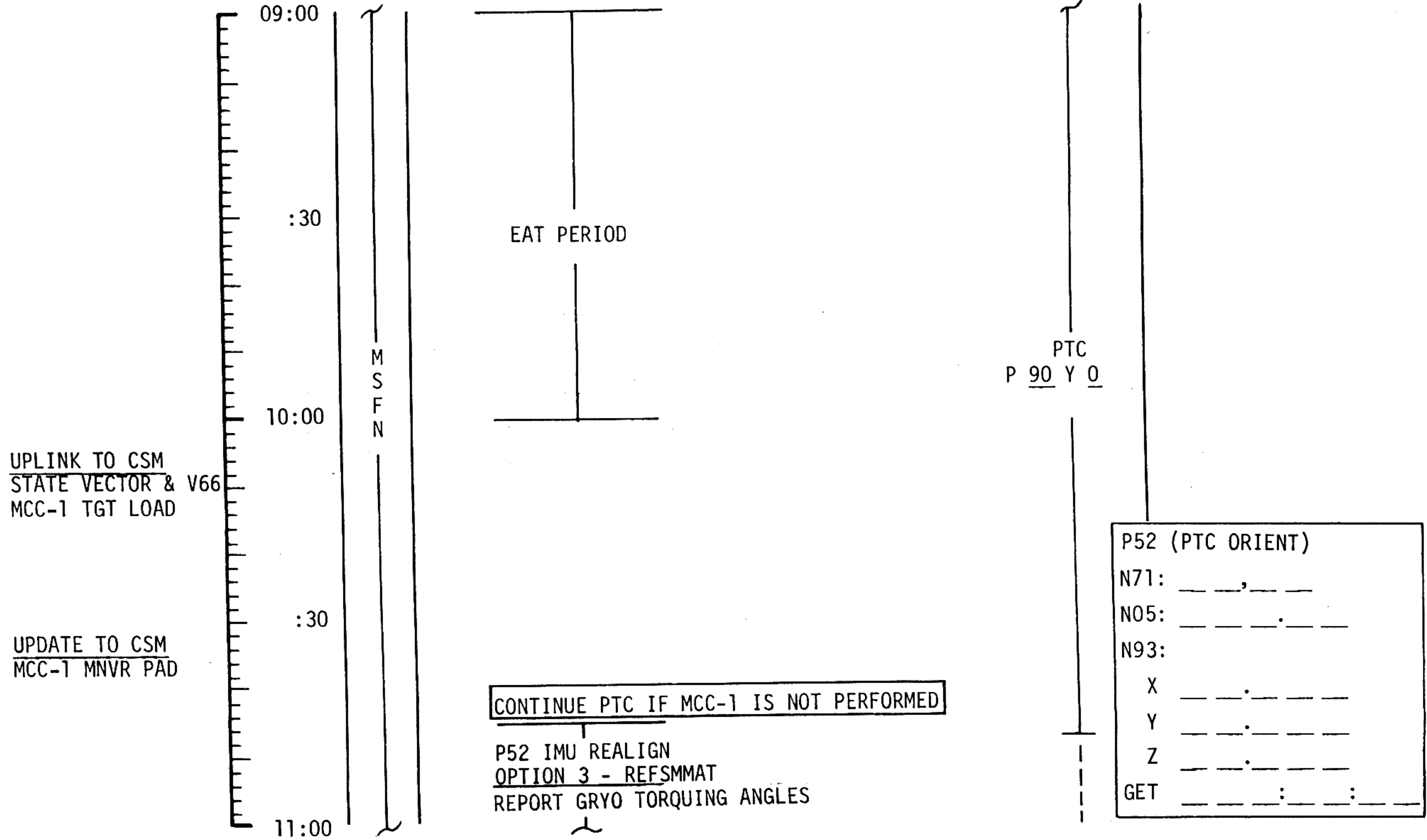
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	07:00 - 09:00	1/TLC	3-9

MCC-H

1922 CST

FLIGHT PLAN

NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	09:00 - 11:00	1/TLC	3-10

FLIGHT PLAN

MCC-1
BURN TABLE

P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
10°/SEC TAKEOVER	+10° TAKEOVER	BT + 1 SEC	IF < 2FPS, TRIM X AXIS TO 0.2FPS IF > 2FPS, NO TRIM

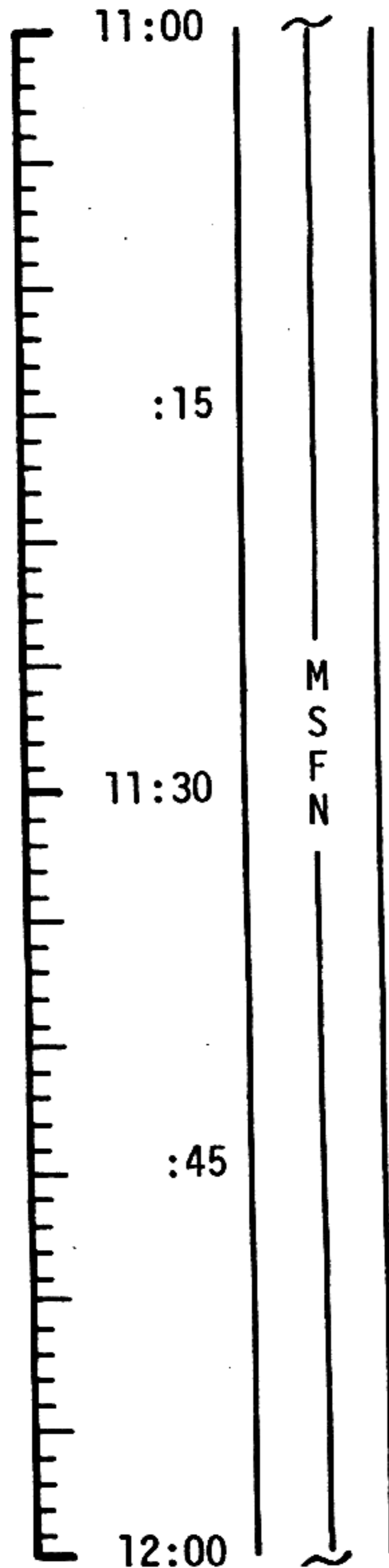
TABLE 3-2
3-11

MCC-H

2122 CST

FLIGHT PLAN

NOTES



P30 - EXTERNAL ΔV

V49 - MINVR TO BURN ATT

SXT STAR CHECK
 BATTERY CHARGE, BATTERY A
 O₂ FUEL CELL PURGE
 WASTE WATER DUMP
 P40/P41 - SPS/RCS THRUST

GDC ALIGN TO IMU

MCC-1

V66 - TRANSFER CSM SV TO LM SLOT
 MCC-1 BURN STATUS REPORT

TIG: 11:47:19.8
 ΔV: NOMINALLY ZERO

PTC

BURN STATUS REPORT				
X	X	<input type="checkbox"/>	•	ΔTIG
X	X		•	BT
<input type="checkbox"/>			•	V _{gx}
TRIM				
X	X	X		R
X	X	X		P
X	X	X		Y
<input type="checkbox"/>			•	V _{gx}
<input type="checkbox"/>			•	V _{gy}
<input type="checkbox"/>			•	V _{gz}
<input type="checkbox"/>			•	ΔV _c *
X	X	X		FUEL *
X	X	X		OX *
X	X	X		UNBAL

* ITEMS TO BE REPORTED IN MSFN

MCC-1 WILL BE DELAYED TO MCC-2 IF PROPELLANT COST IS NOT PROHIBITIVE TLI + 9 HRS

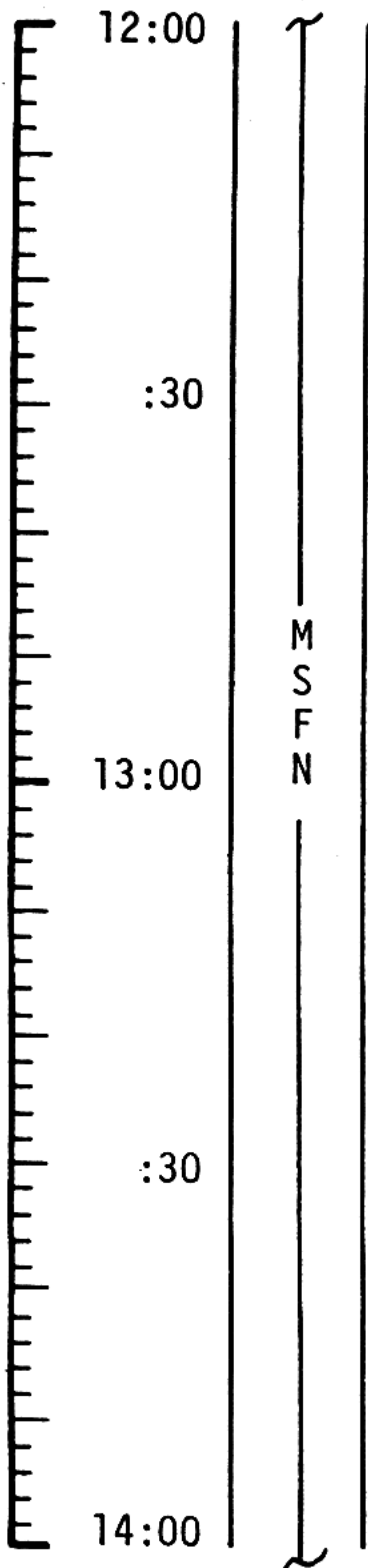
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	11:00 - 12:00	1/TLC	3-12

MCC-H

2222 CST

FLIGHT PLAN

NOTES



REPORT: LM/CM ΔP
 WASTE STOWAGE VENT VLV - CLOSE
 VENT BATTS UNTIL SYSTEM TEST METER (4A) = 0

MNVR TO PTC ATT P 90
 Y 0

DECISION TO REINITIATE
 CM CABIN PURGE
 WILL BE MADE
 REAL TIME AT APPROX
 36 HRS GET

PTC
 P 90 Y 0

UPDATE TO CSM
 P37 PADS (L/O +
 25, 35, 45 & 60)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	12:00 - 14:00	1/TLC	3-13

MSC Form 29 (May 69)

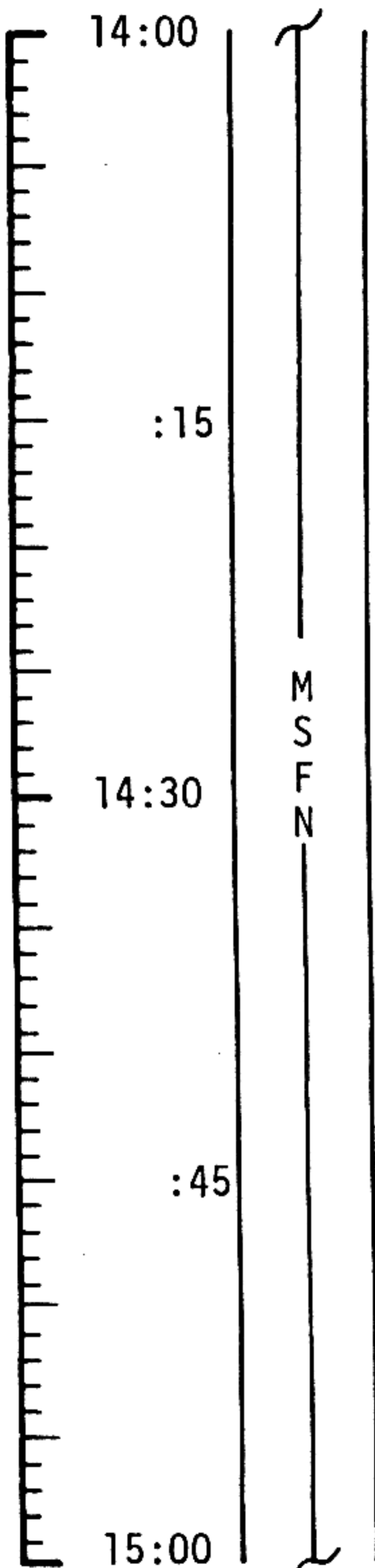
FLIGHT PLANNING BRANCH

MCC-H

0022 CST

FLIGHT PLAN

NOTES



P52 IMU REALIGN
OPTION 3 REFSMMAT
(OPTIONAL)

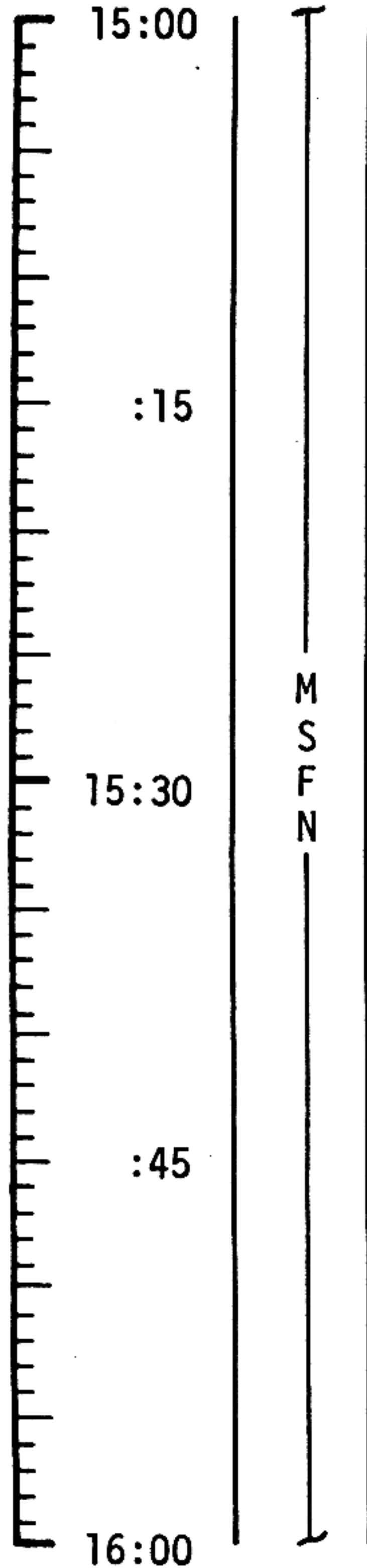
PTC
P 90 Y 0

P52 (PTC ORIENT)	
N71:	____, ____
N05:	____. ____
N93:	____
X	____. ____
Y	____. ____
Z	____. ____
GET	____: ____: ____

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	14:00 - 15:00	1/TLC	3-14

FLIGHT PLAN

NOTES



REPORT GYRO TORQUING ANGLES
GDC ALIGN TO IMU

MNVR TO OPTICS CALIBRATION ATT R 204
P23 - CISELUNAR NAVIGATION P 262
OPTICS CALIBRATION Y 0
 STAR 1 5
P00

V49 - MNVR TO SIGHTING ATT R 145
STAR/EARTH HORIZON P 293
P23 - CISELUNAR NAVIGATION Y 0
LOAD W MATRIX (R1 + 1 4 0 0 0)(R2 + 0 0 0 0 2)

1. STAR 2 4 ENH (R3 = 0 0 1 1 0)

2. STAR 1 6 EFH (R3 = 0 0 1 2 0)

3. STAR 2 6 ENH (R3 = 0 0 1 1 0)

3 MARKS EACH STAR

INCORPORATE P23
MARK DATA AND
UPDATE ONBOARD
STATE VECTOR

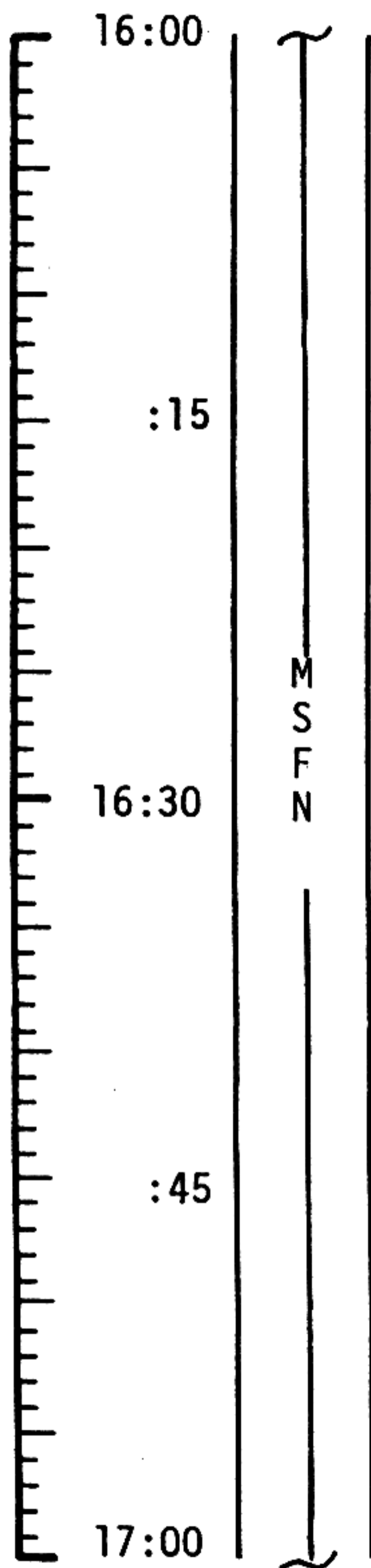
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	15:00 - 16:00	1/TLC	3-15

MCC-H

0222 CST

FLIGHT PLAN

NOTES



UPDATE TO CSM
QUADS TO DISABLE
FOR PTC (LOWEST
QUANTITY PRPLNT)

4. STAR 2 1 E F H (R3 = 0 0 1 2 0)

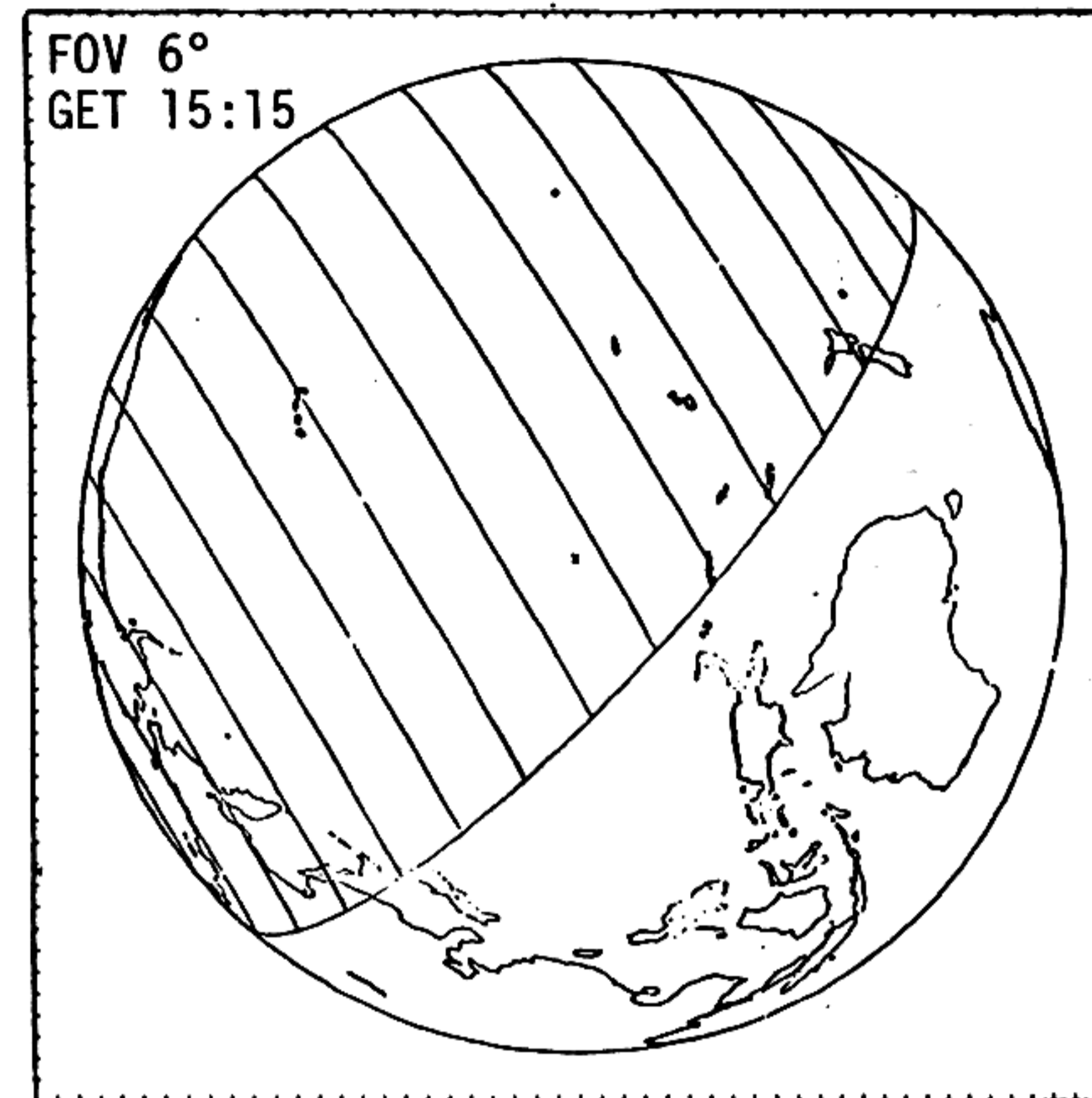
5. STAR 2 3 E N H (R3 = 0 0 1 1 0)

MNVR TO PTC ATTITUDE P 90
START PTC Y 0

EAT PERIOD

PTC

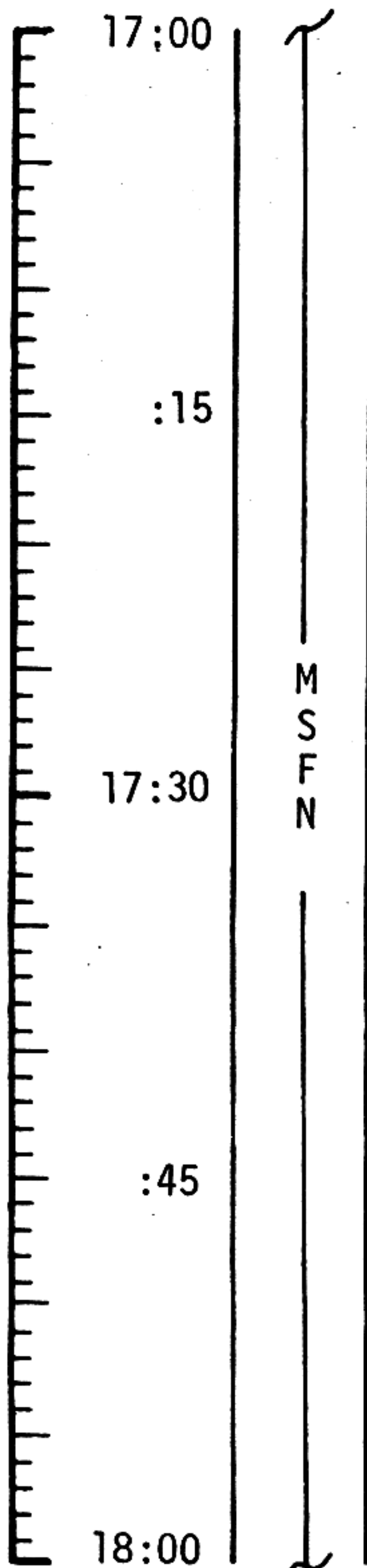
P 90 Y 0



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	16:00 - 17:00	1/TLC	3-16

FLIGHT PLAN

NOTES



EAT PERIOD

PRESLEEP CHECKLIST:
 CREW STATUS REPORT (MED)
 ONBOARD READOUTS
 CYCLE O2 & H2 FANS
 CHLORINATE POTABLE WATER
VERIFY:
 WASTE MNGT OVBD DRAIN - OFF
 WASTE STOW VENT VLV - CLOSED
 EMER CABIN PRESS VLV - BOTH
 SURGE TK O2 VLV - ON
 REPRESS O2 VLV - OFF
 LM TUNNEL VENT - LM/CM ΔP
 "E" MEMORY DUMP
NORMAL LUNAR COMM EXCEPT:
 S-BD NORMAL MODE VOICE - OFF
 S-BD SQUELCH - ENABLE
 S-BD AUX TAPE - OFF
 S-BD ANT - OMNI
 S-BD ANT OMNI - B
 TAPE RCDR FWD - OFF

LiOH CANISTER CHANGE NO.2
 (4 INTO B, STOW 2 IN B5)

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

PTC
 P 90 Y 0

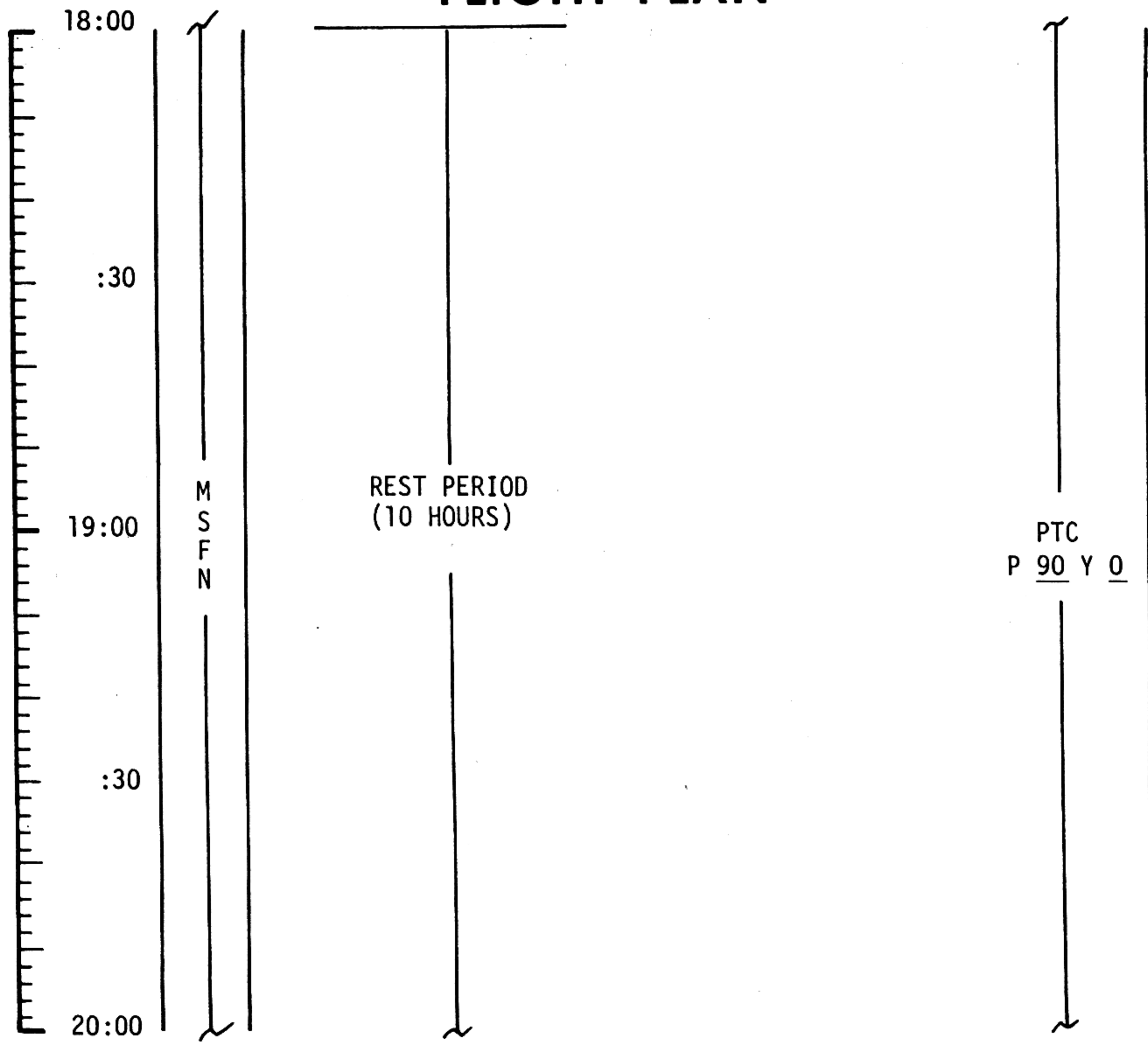
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	17:00 - 18:00	1/TLC	3-17

MCC-H

0422 CST

FLIGHT PLAN

NOTES



DURING REST PERIOD
TWO CREWMEN IN
COUCHES AND ONE
IN REST STATION

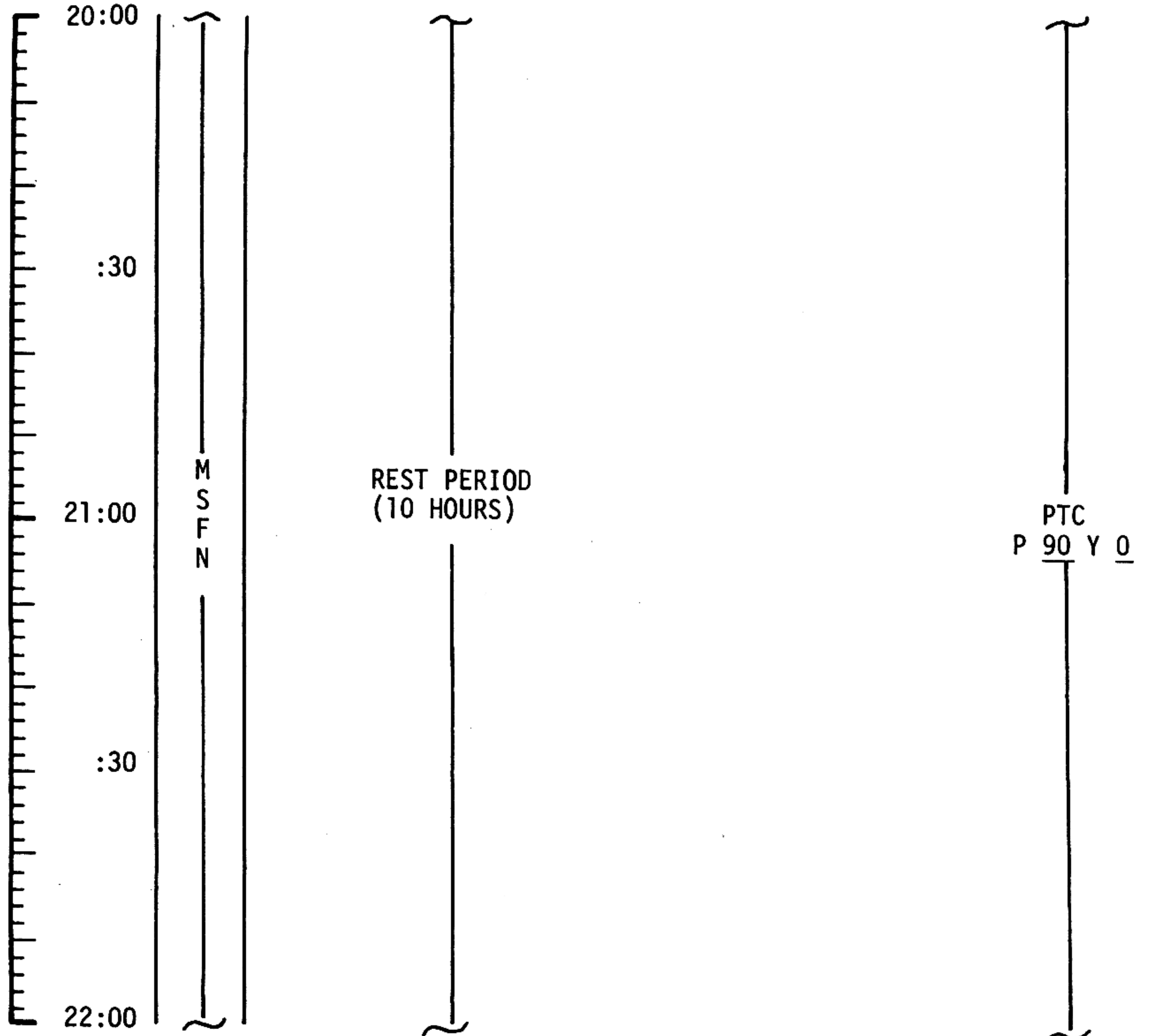
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	18:00 - 20:00	1/TLC	3-18

MCC-H

0622 CST

FLIGHT PLAN

NOTES



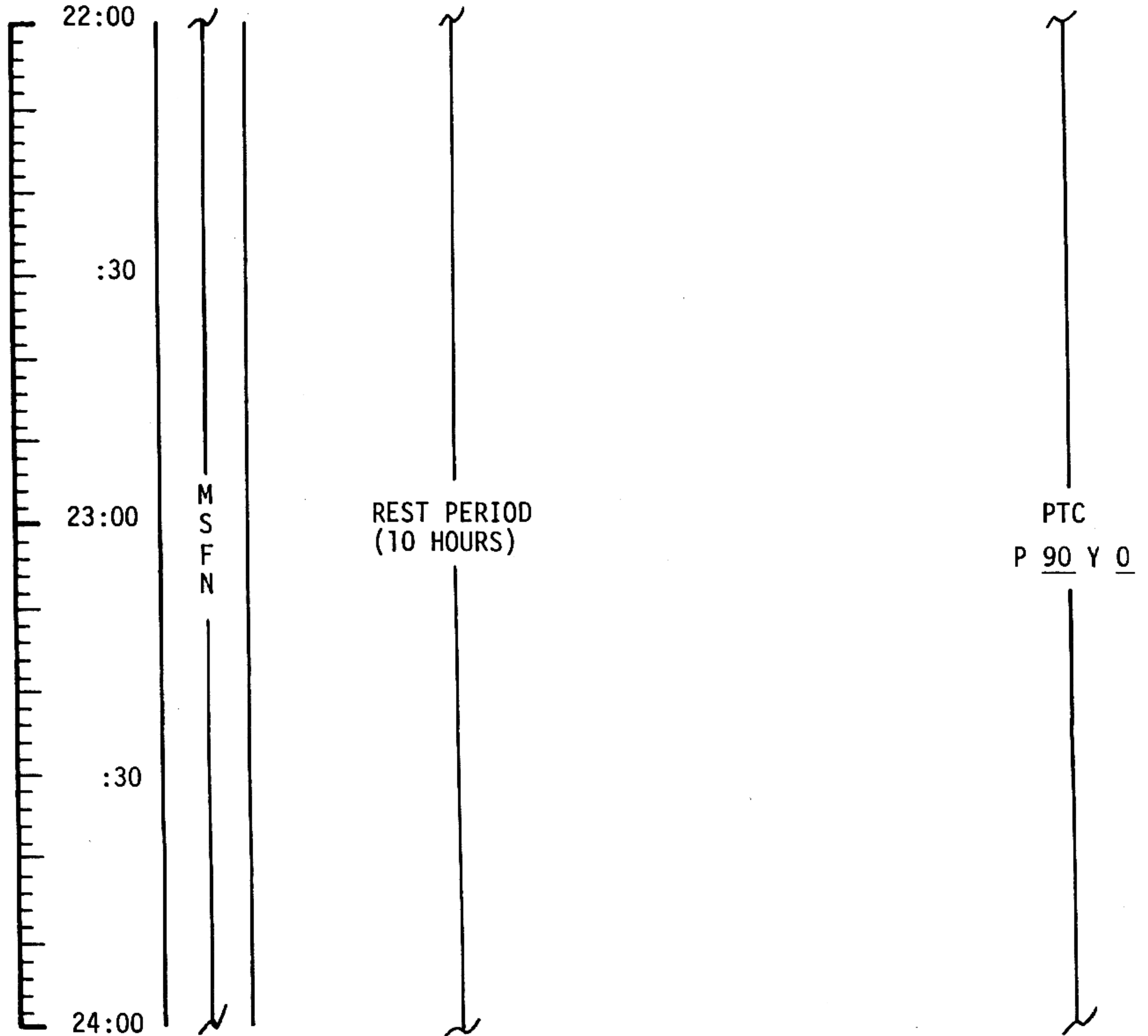
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	20:00 - 22:00	1/TLC	3-19

MCC-H

0822 CST

FLIGHT PLAN

NOTES



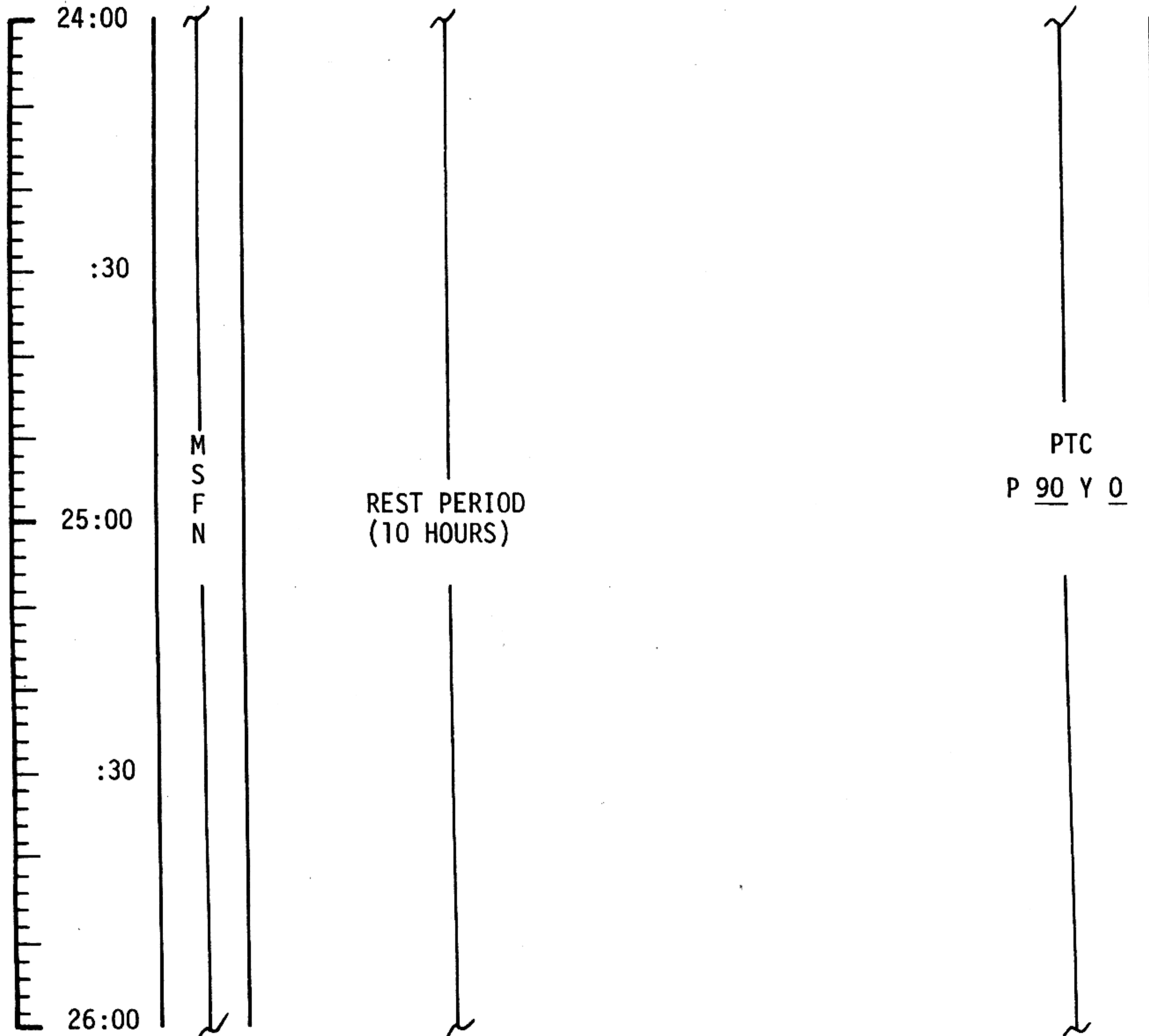
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	22:00 - 24:00	1/TLC	3-20

MCC-H

1022 CST

FLIGHT PLAN

NOTES



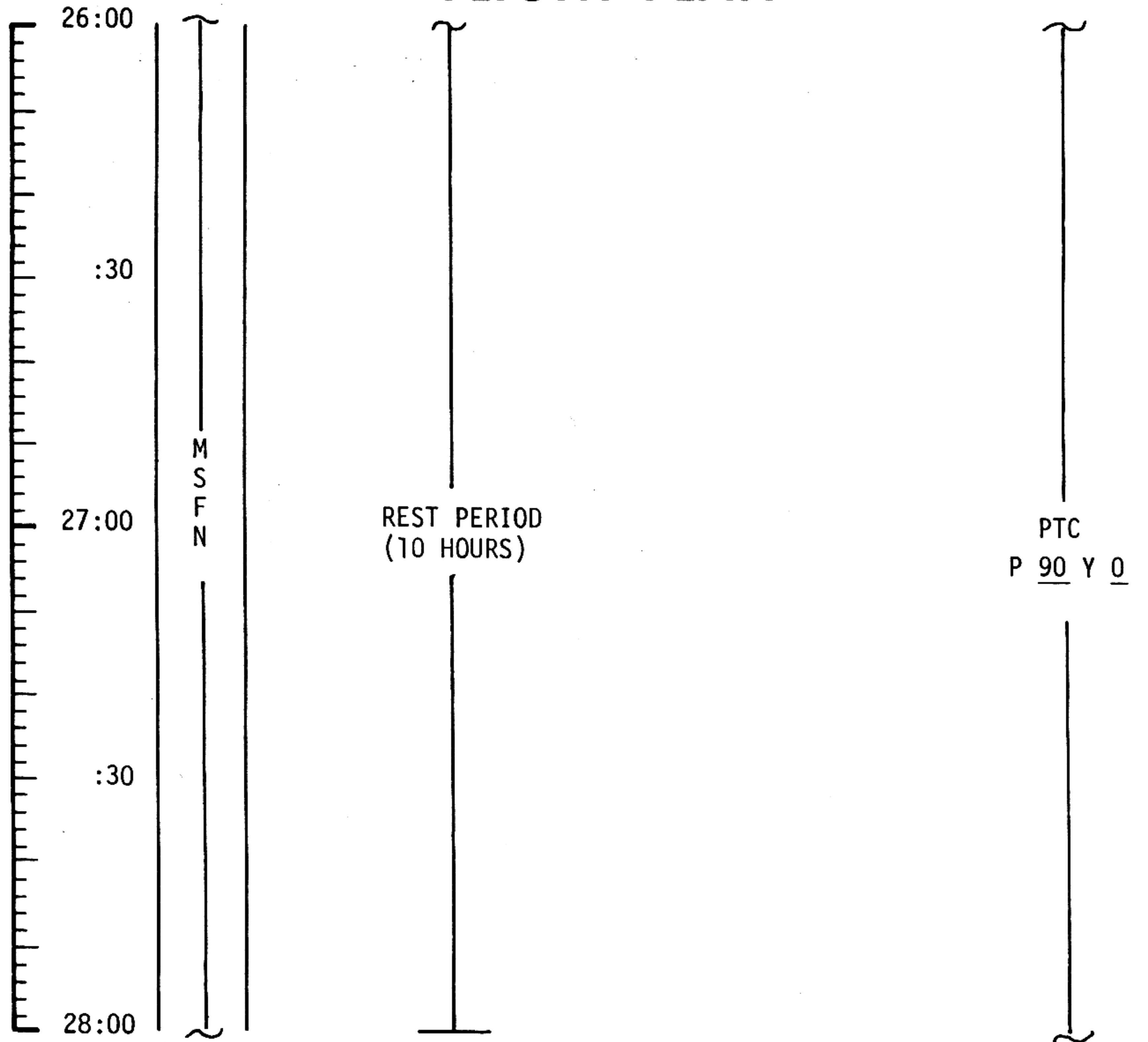
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	24:00 - 26:00	1/TLC	3-21

MCC-H

1222 CST

FLIGHT PLAN

NOTES



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	26:00 - 28:00	1/TLC	3-22