

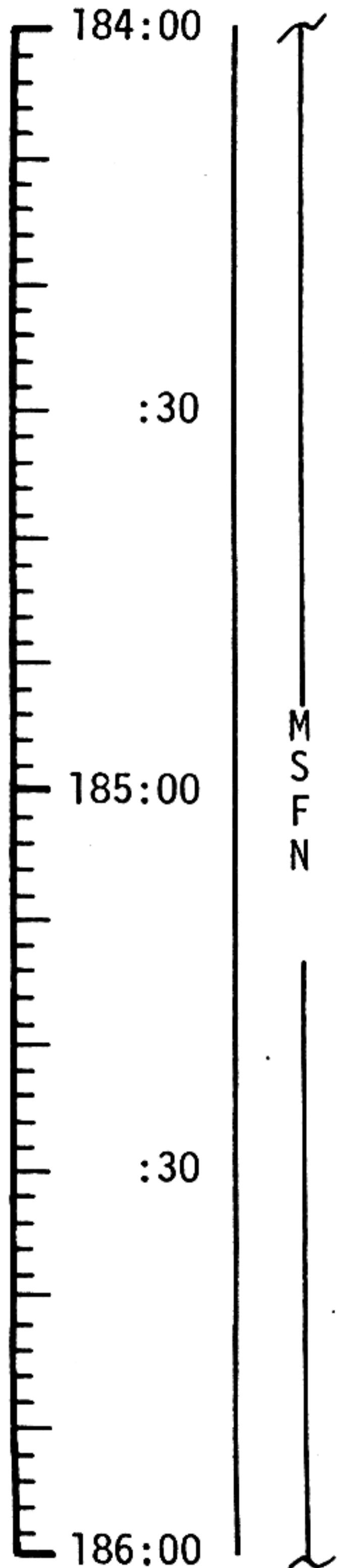
MCC-H

0222 CST

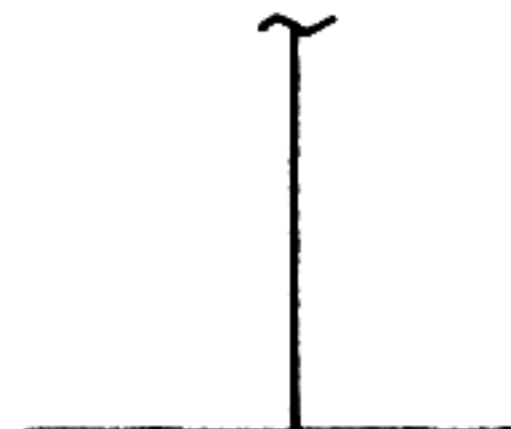
# FLIGHT PLAN

## NOTES

UPDATE TO CSM  
 CONSUMABLES  
 MCC-5 MNVR PAD  
 FLIGHT PLAN  
 UPLINK TO CSM  
 STATE VECTOR & V66  
 MCC-5 TGT LOAD



M  
S  
F  
N



POSTSLEEP CHECKLIST:  
 CREW STATUS REPORT  
 CONSUMABLES UPDATE  
 CYCLE H2 & O2 FANS  
 FLIGHT PLAN UPDATE  
 NORMAL LUNAR COMM EXCEPT:  
 S-BD AUX TAPE - OFF  
 TAPE RCDR FWD - OFF  
 OMNI OPS  
 S-BD ANT - OMNI  
 S-BD ANT OMNI - B  
 HGA OPS  
 S-BD ANT-HI GAIN  
 CREW MANAGES ANT  
 OPS

EAT PERIOD

WIPE EXCESSIVE MOISTURE FROM  
TUNNEL HATCH AREA

LiOH CANISTER CHANGE NO. 14  
(16 INTO B, STOW 14 IN A4)

**CONTINUE PTC IF MCC-5 IS NOT PERFORMED**

P52 - IMU REALIGN  
 OPTION 3 - REFSMMAT  
 REPORT GYRO TORQUING ANGLES

CREW STATUS REPORT			
	CDR	CMP	LMP
SLEEP	_____	_____	_____
PRD	_____	_____	_____

CSM CONSUMABLES UPDATE			
GET:	_____	_____	_____
RCS TOTAL	_____	_____	%
QUAD A	_____	%B	_____ %
	C	%D	_____ %
H <sub>2</sub> TOTAL	_____	_____	%
O <sub>2</sub> TOTAL	_____	_____	%

PTC  
270, 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	184:00 - 186:00	8/TEC	3-165

MSC Form 29 (May 69)

FLIGHT PLANNING BRANCH

# FLIGHT PLAN

MCC-5  
BURN TABLE

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

TABLE 3-12  
3-166

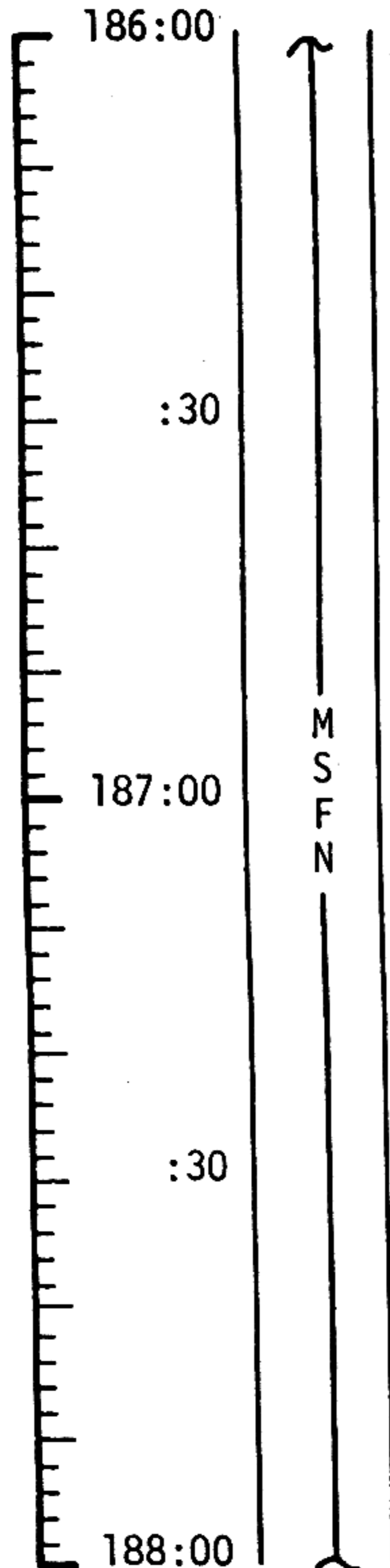
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MCC-H

0422 CST

# FLIGHT PLAN

NOTES



BATTERY CHARGE, BATTERY B

H<sub>2</sub> PURGE LINE HTRS - ON  
 P30 - EXTERNAL ΔV  
 V49 - MNVR TO BURN ATT  
 SXT STAR CHECK  
 H2 & O2 FUEL CELL PURGE  
 WASTE WATER DUMP  
 P40/41 - SPS/RCS THRUST  
 GDC ALIGN TO IMU

MCC-5

V66 TRANSFER CSM SV TO LM SLOT  
 MCC-5 BURN STATUS REPORT

TIG: 187:21:14.7  
 ΔV: NOMINALLY ZERO

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

\* ITEMS TO BE REPORTED TO MSFN

PTC  
 P 270, Y 0

(TEI + 15 HRS)

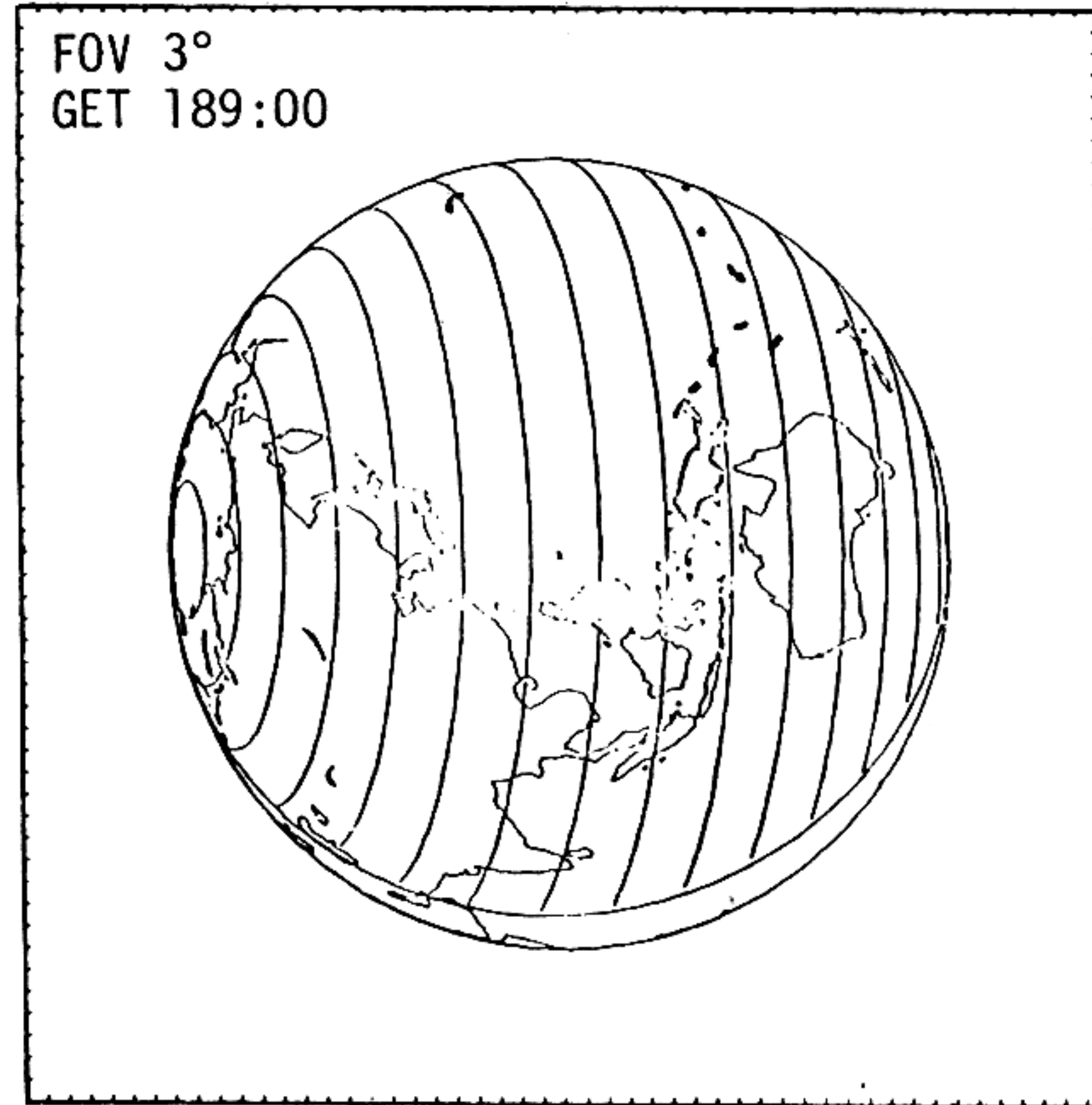
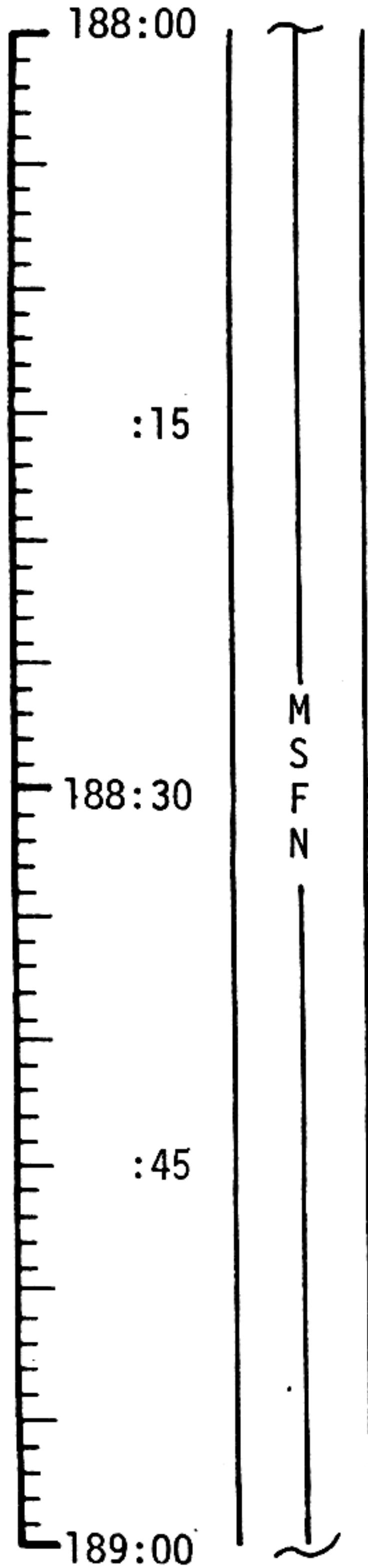
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	186:00 - 188:00	8/TEC	3-167

MCC-H

0622 CST

# FLIGHT PLAN

NOTES



PTC  
P 270, Y 0

STOP PTC AT ROLL 235°

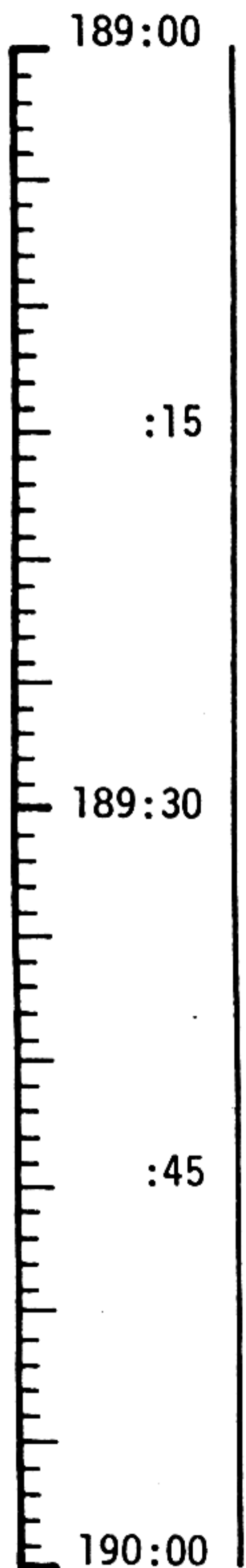
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	188:00 - 189:00	8/TEC	3-168

MCC-H

0722 CST

# FLIGHT PLAN

NOTES



M  
S  
F  
N

MNVR TO OPTICS CALIBRATION ATT R 235  
 P23 - CISELUNAR NAVIGATION P 272  
 OPTICS CALIBRATION Y 0  
 STAR 1 2

P00  
 V49 - MNVR TO SIGHTING ATT R 90  
 STAR/EARTH HORIZON P 339  
 P23 - CISELUNAR NAVIGATION Y 332  
 LOAD W MATRIX (R1 +4 5 0 0 0)(R2 +0 0 0 0 6)  
 1. STAR 2 3 2 EFH (R3 = 0 0 1 2 0)  
 N88: (R1 = -6 3 5 0 5)(R2 = -0 1 8 8 3)(R3 = -7 7 2 2 4)

2. STAR 1 7 4 ENH (R3 = 0 0 1 1 0)  
 N88: (R1 = -5 5 9 9 2)(R2 = -8 2 0 7 3)(R3 = 1 1 3 5 3)

3. STAR 1 7 2 ENH (R3 = 0 0 1 1 0)  
 N88: (R1 = -6 4 9 4 7)(R2 = -7 4 3 1 2)(R3 = 1 6 1 1 4)

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

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

3 MARKS ON 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	189:00 - 190:00	8/TEC	3-169

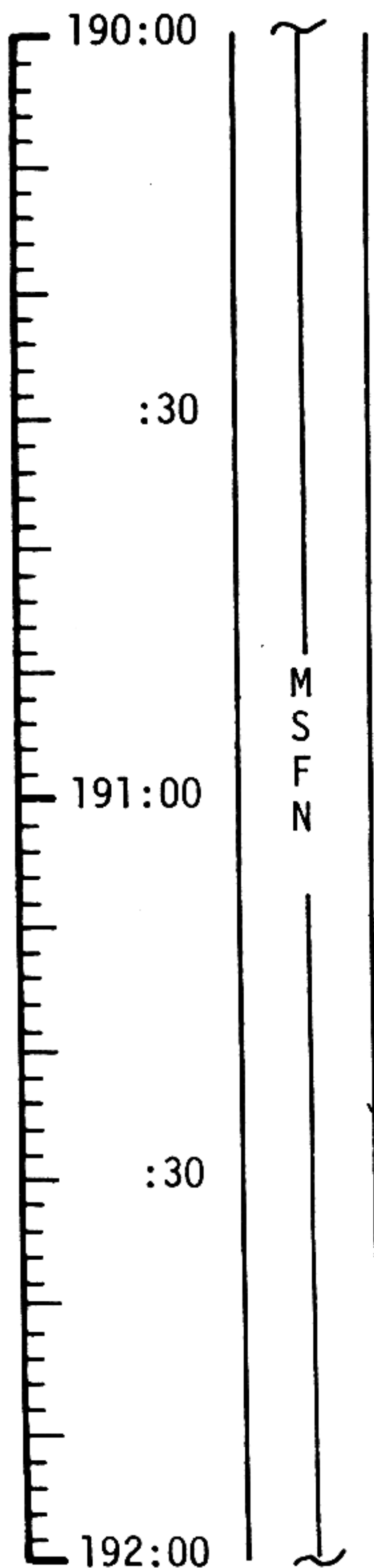
MCC-H

0822 CST

# FLIGHT PLAN

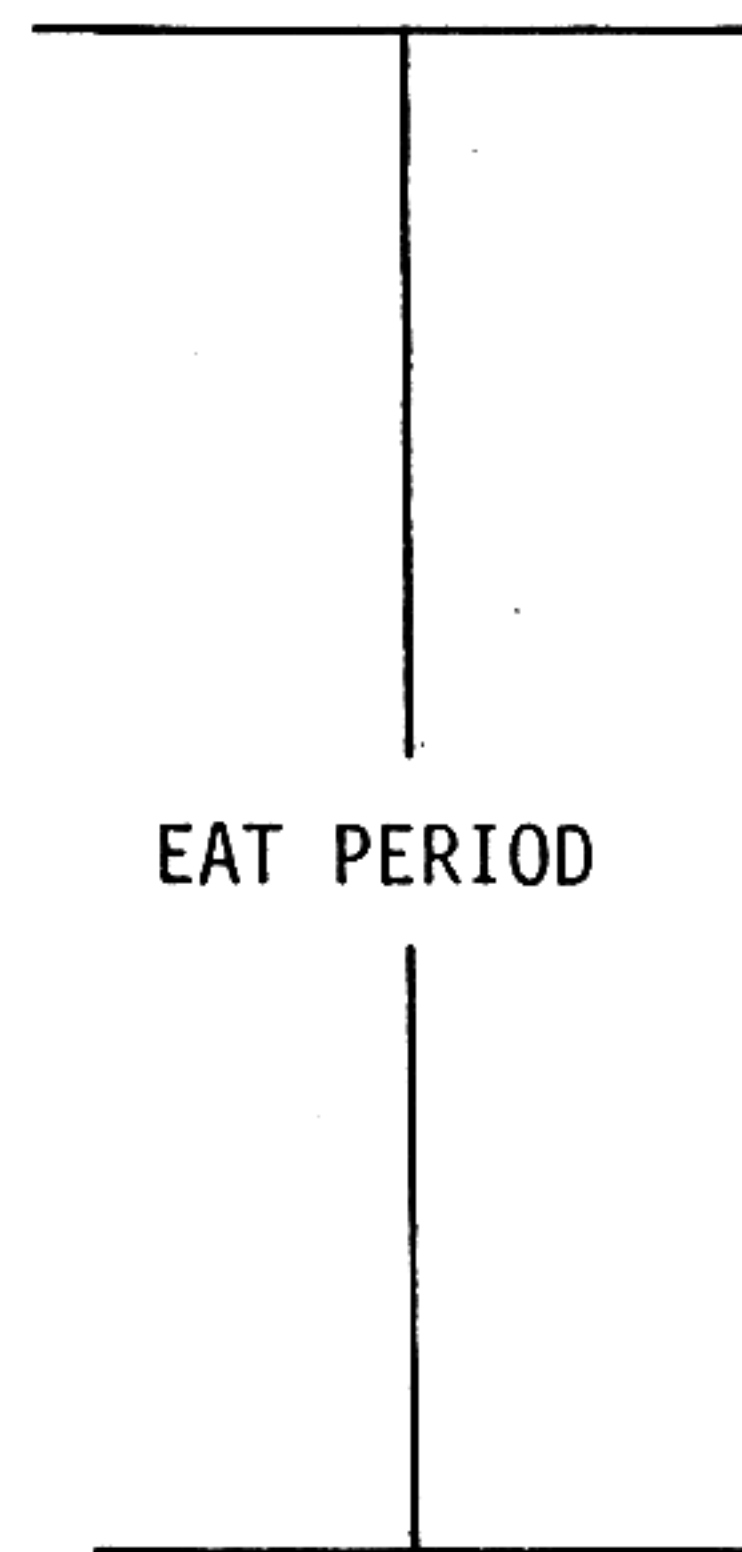
NOTES

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



M  
S  
F  
N

START PTC



PTC  
P 270, Y 0

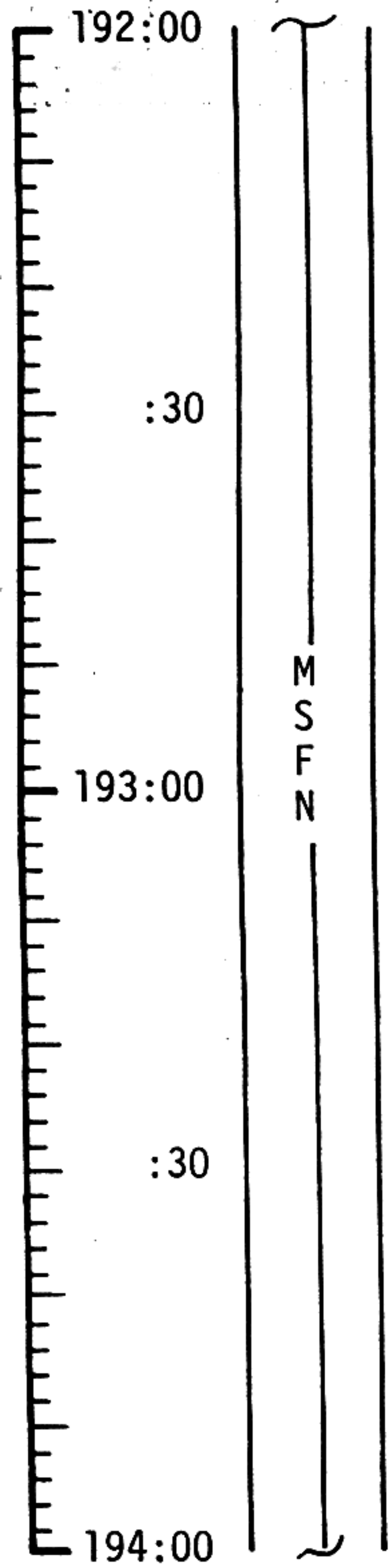
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	190:00 - 192:00	8/TEC	3-170

MCC-H

1022 CST

# FLIGHT PLAN

NOTES



PTC  
P 270, Y 0

BATTERY CHARGE, BATTERY A

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	192:00 - 194:00	8/TEC	3-171

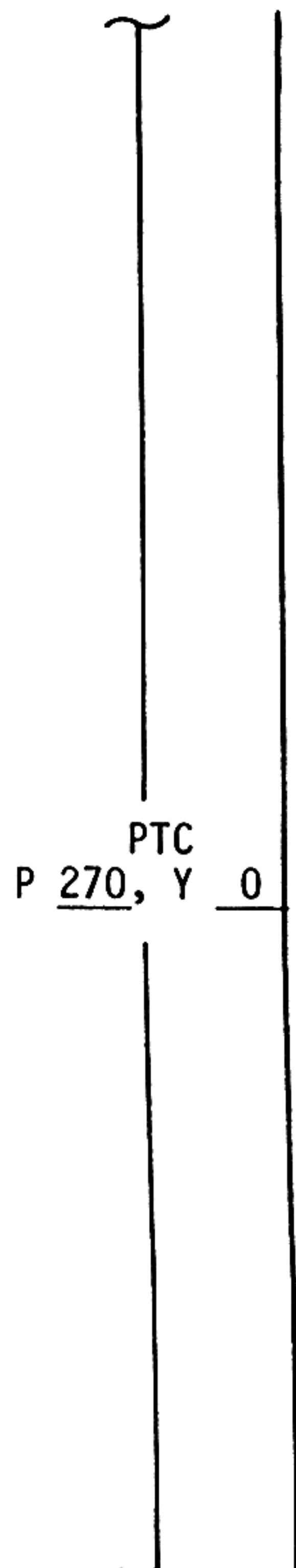
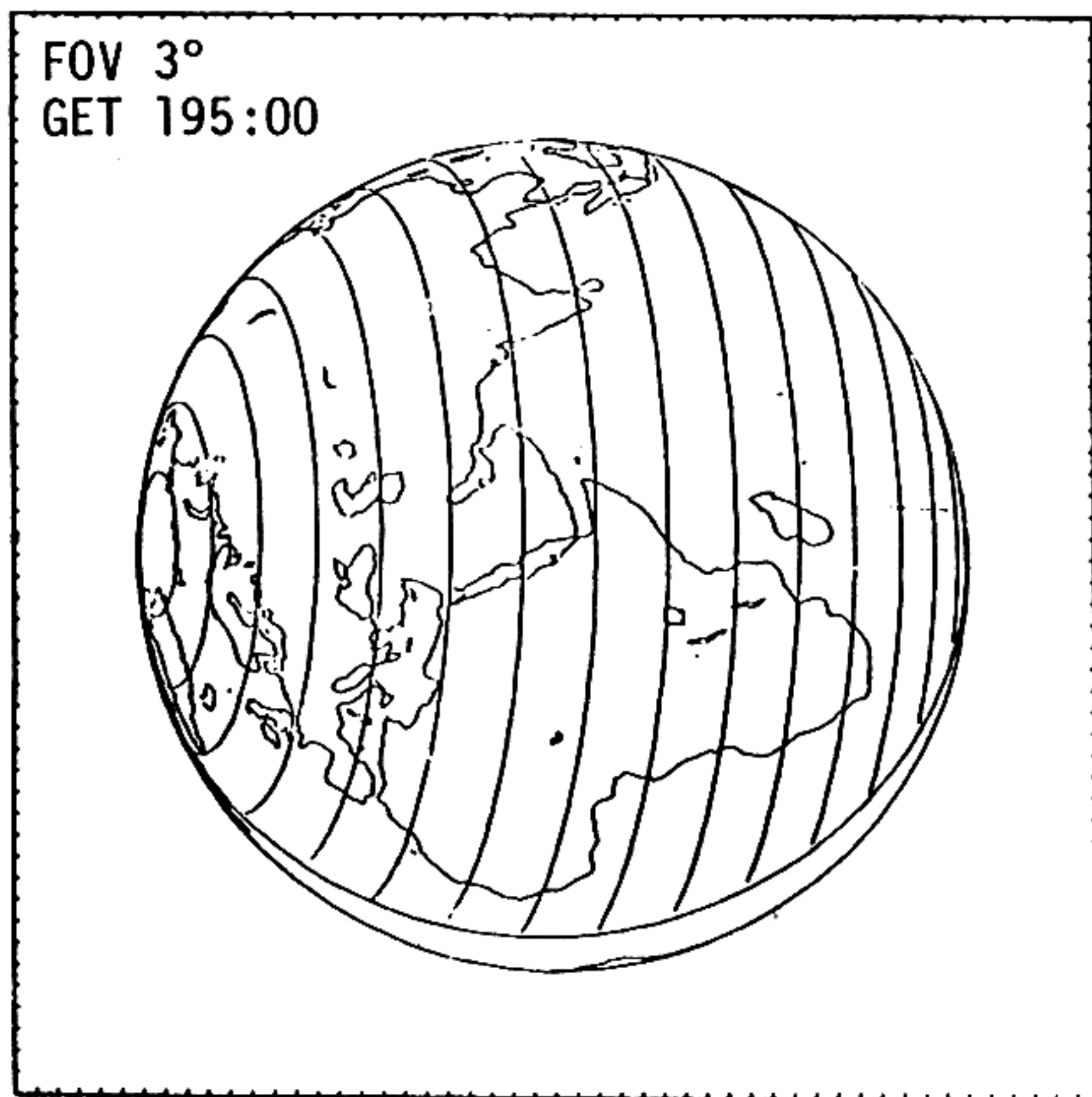
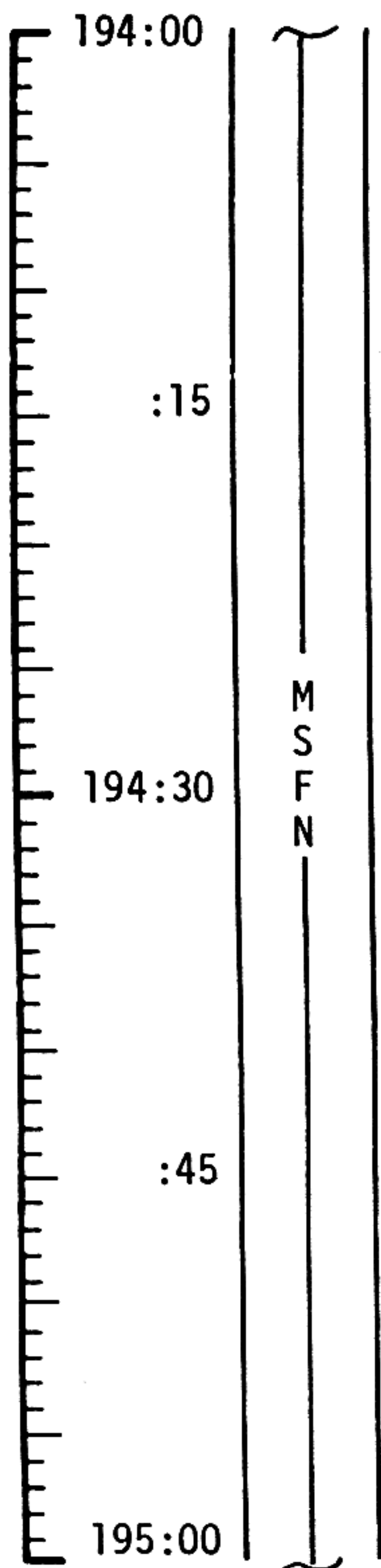


MCC-H

1222 CST

# FLIGHT PLAN

NOTES



STOP PTC AT ROLL 235°

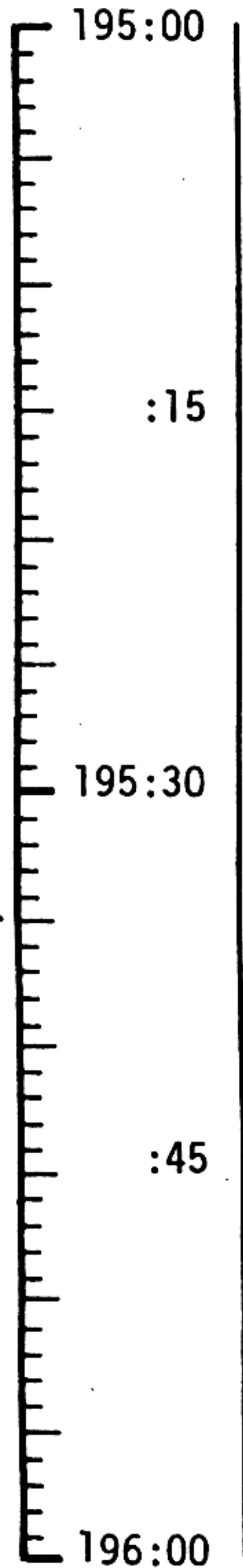
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	194:00 - 195:00	8/TEC	3-172

MCC-H

1322 CST

# FLIGHT PLAN

NOTES



MNVR TO OPTICS CALIBRATION ATT  
 P23 - CISELUNAR NAVIGATION  
 OPTICS CALIBRATION  
 STAR 1 2

R 235  
 P 272  
 Y 0

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

R 90  
 P 329  
 Y 332

1. VENUS ENH (R3 = 0 0 1 1 0)  
 N88: (R1 = -7 0 4 9 6)(R2 = -6 5 8 7 4)(R3 = -2 6 2 9 2)  
 DO NOT PROCEED ON F 06 49

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

3. STAR 1 6 0 EFH (R3 = 0 0 1 2 0)  
 N88: (R1 = -9 4 7 0 3)(R2 = -2 5 6 7 8)(R3 = 1 9 2 8 6)

4. STAR 1 7 1 ENH (R3 = 0 0 1 1 0)  
 N88: (R1 = -5 2 4 7 3)(R2 = -5 0 9 2 0)(R3 = -6 8 2 1 8)

5. STAR 1 6 3 EFH (R3 = 0 0 1 2 0)  
 N88: (R1 = -8 3 4 6 4)(R2 = -4 4 9 6 6)(R3 = 3 1 8 0 9)

6. STAR 2 0 4 ENH (R3 = 0 0 1 1 0)  
 N88: (R1 = -2 1 3 8 9)(R2 = -9 3 8 6 8)(R3 = -2 7 0 4 2)

3 MARKS ON 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	195:00 - 196:00	8/TEC	3-173

MSC Form 29 (May 69)

FLIGHT PLANNING BRANCH

NASA — MSC

REVISION B

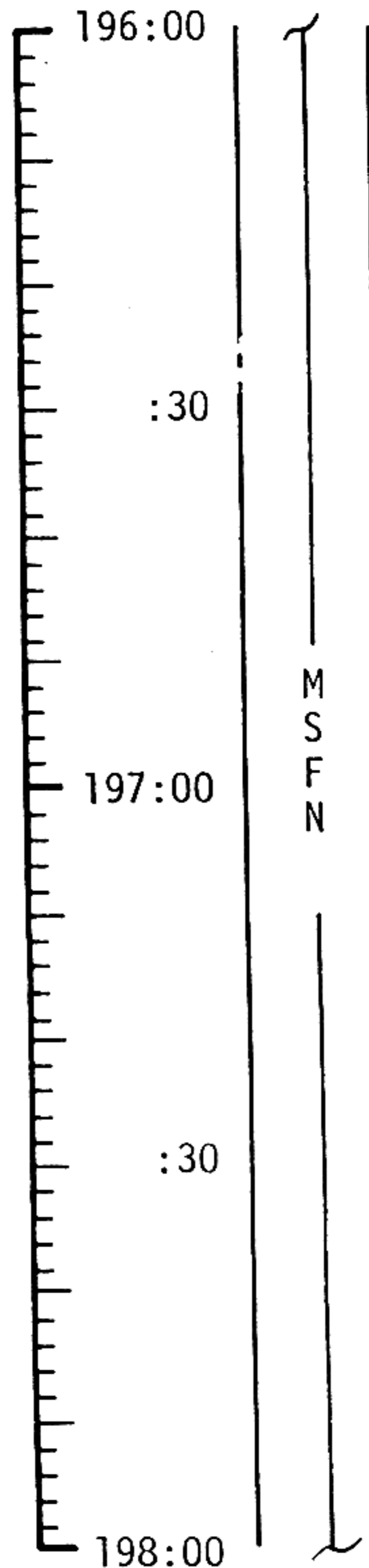
MCC-H

1422 CST

# FLIGHT PLAN

NOTES

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



START PTC

WIPE EXCESSIVE MOISTURE FROM  
TUNNEL HATCH AREA  
CONTAMINATION CONTROL  
LiOH CANISTER CHANGE NO. 15  
(17 INTO A, STOW 15 IN A4)

PTC  
P 270, Y 0

M  
S  
F  
N

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  
 EMERG CABIN PRESS VLV - BOTH  
 SURGE TK O2 VLV - ON  
 REPRESS O2 VLV - OFF  
 LM TUNNEL VENT - OFF  
 "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

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

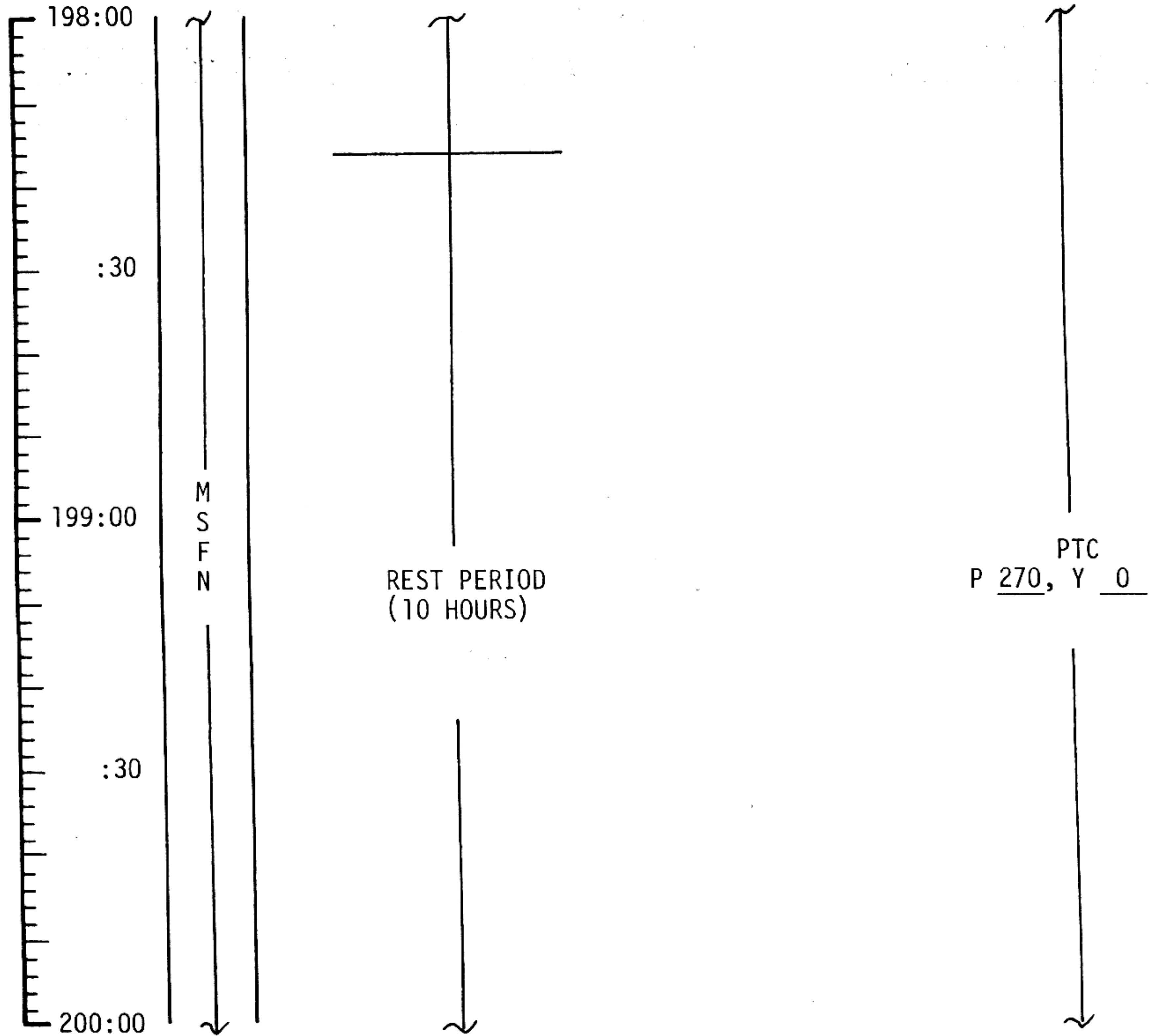
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	196:00 - 198:00	8/TEC	3-174

MCC-H

1622 CST

# FLIGHT PLAN

NOTES



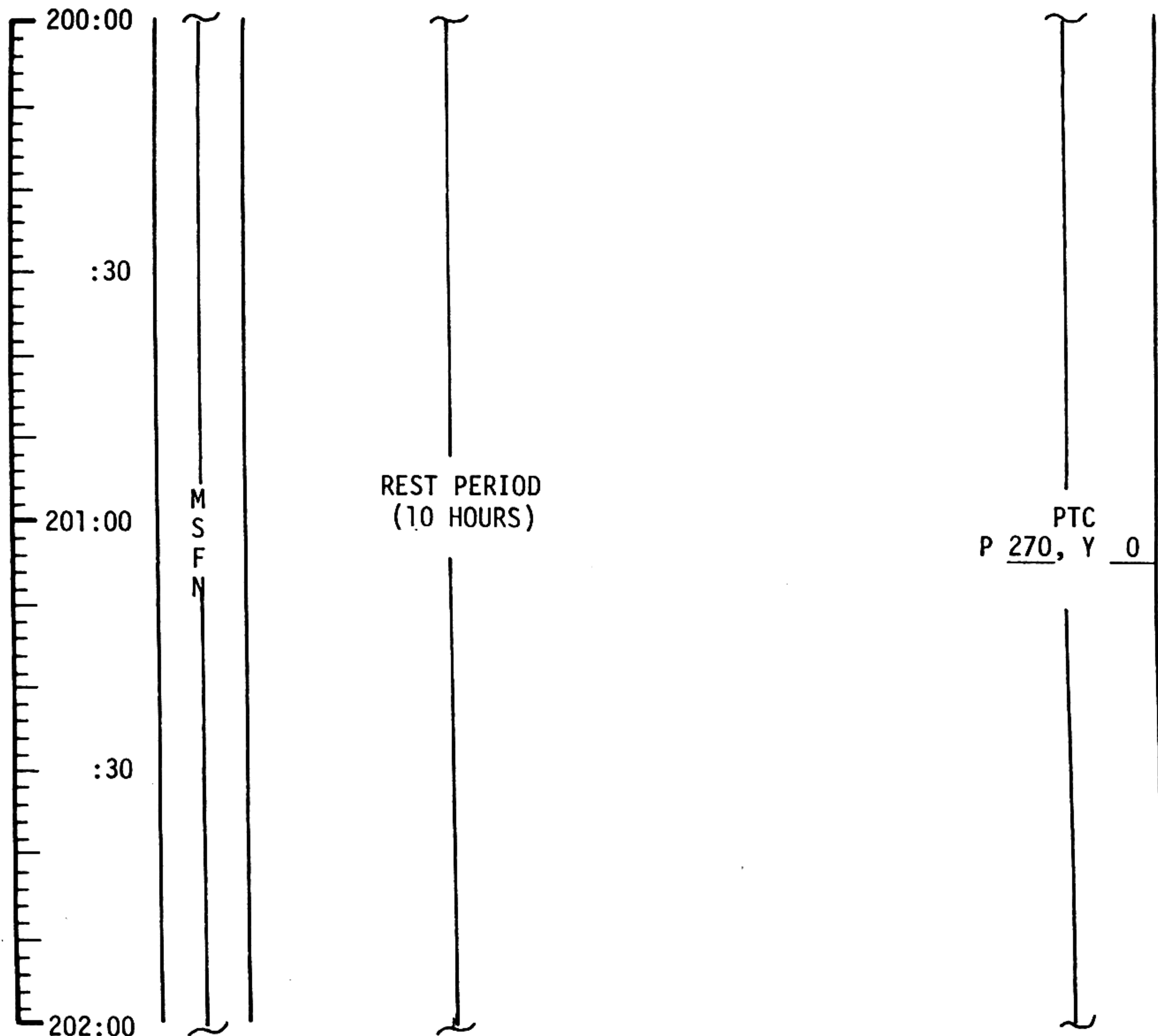
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	198:00 - 200:00	8/TEC	3-175

MCC-H

1822 CST

# FLIGHT PLAN

NOTES



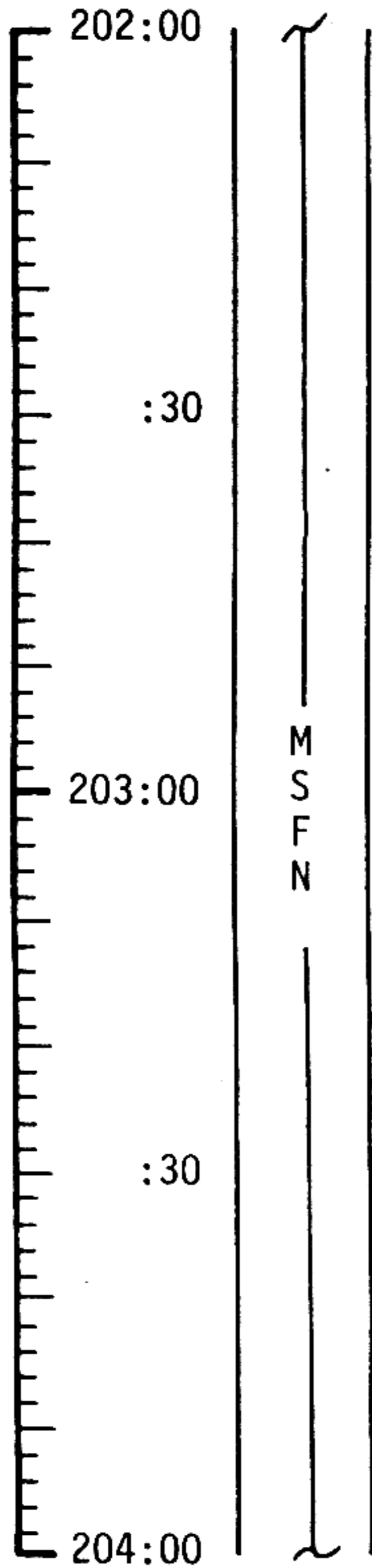
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	200:00 - 202:00	8/TEC	3-176

MCC-H

2022 CST

# FLIGHT PLAN

NOTES



M  
S  
F  
N

REST PERIOD  
(10 HOURS)

PTC  
P 270, Y 0

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	202:00 - 204:00	8/TEC	3-177

MCC-H

2222 CST

# FLIGHT PLAN

NOTES

204:00

:30

205:00

:30

206:00

M  
S  
F  
N

REST PERIOD  
(10 HOURS)

PTC  
P 270, Y 0

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	204:00 - 206:00	8/TEC	3-178

MSC Form 29 (May 69)

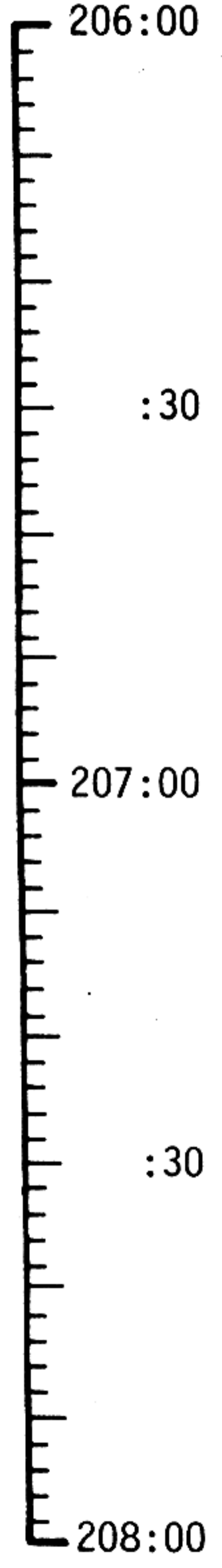
FLIGHT PLANNING BRANCH

MCC-H

0022 CST

# FLIGHT PLAN

NOTES



M  
S  
F  
N

REST PERIOD  
(10 HOURS)

PTC  
P 270, Y 0

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 12	FINAL (NOV 14)	OCTOBER 15, 1969	206:00 - 208:00	8/TEC	3-179