

MOC-N

1723 CST

# FLIGHT PLAN

## NOTES

UPDATE TO CSM  
CONSUMABLES  
FLIGHT PLAN

51:00  
:10  
:20  
51:30  
:40  
:50  
52:00

M  
S  
E  
N

### CSM SYSTEMS CHECKLIST

POST-SLEEP CHECKLIST

PAGE S 1-26

L10H CANISTER CHANGE  
(6 INTO B, STOW 4 IN B5)

51+00

REPORT: LN/CM ΔP

50+59 = 0.95

EAT PERIOD

DAP LOAD STATUS  
(21101)(X1111)

### CSM CONSUMABLES UPDATE

GET: 51:00

RCS TOTAL 842

QUAD A 84 B 83

C 84 D 84

H<sub>2</sub> TANK 1 29.3 2 29.7

O<sub>2</sub> TANK 1 92 2 91

3 45

PTC

EARTH DISTANCE  
≈ 160 954 NM

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	51:00 - 52:00	3/TLC	3-49

MCC-N

1823 CST

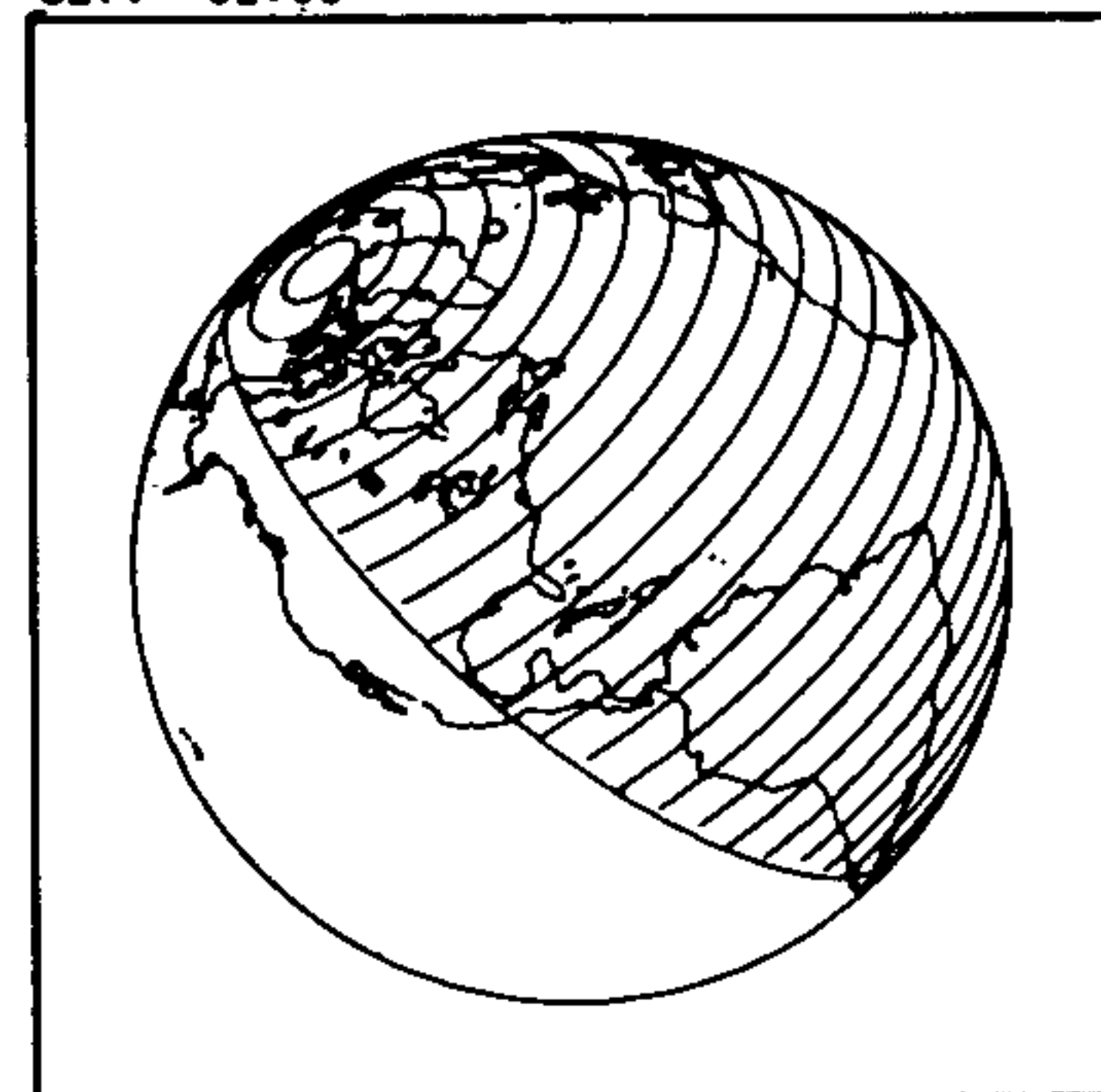
# FLIGHT PLAN

## NOTES

DAP LOAD STATUS  
(21101)(X1111)

GET: 52:00

F.O.V. 3°



PTC

52:00  
:10  
:20  
52:30  
:40  
:50  
53:00

M  
S  
F  
N

### S-170 BISTATIC RADAR FREQUENCY CHECK

VHF AM B - DUPLEX

VHF RANGING - ON

VHF ANT - LEFT (VERIFY)

NOTE: MSFN WILL TURN OFF  
S-BAND UPLINK FOR  
APPROXIMATELY 5 MIN  
WHILE S-BAND DOWNLINK  
FREQUENCY IS MEASURED

ON GROUND CUE:

VHF AM B - OFF

VHF RANGING - OFF

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	CHANGE A (JAN)	DECEMBER 23, 1970	52:00 - 53:00	3/TLC	3-50

MCC-N

1923 CST

## FLIGHT PLAN

## NOTES

53:00  
:10  
:20  
53:30  
:40  
:50  
54:00

M  
S  
F  
N

CHARGE BATTERY B

P52 IMU REALIGN  
OPTION 3 REFSMAT  
(PTC ORIENT)

REPORT: GYRO TORQUING ANGLES53 + 11 + 30DAP LOAD STATUS  
(21101)(X1111)

P52 IMU REALIGN

N71: \_ \_ \_ ' \_ \_

N05: \_ \_ \_ ' \_ \_

N93: \_ \_ \_ ' \_ \_

X \_ \_ \_ ' \_ \_

Y \_ \_ \_ ' \_ \_

Z \_ \_ \_ ' \_ \_

GET \_ \_ \_ : \_ \_ : \_ \_

PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	53:00 - 54:00	3/TLC	3-51

MCC-H

2023 CST

## FLIGHT PLAN

## NOTES

DAP LOAD STATUS  
(21101)(X1111)

## T EPHEM UPDATE

OID	LOAD B
03	_____
04	_____
05	_____

LIFT-OFF TIME WILL  
BE UPDATED IF THE  
TIME PROPAGATED  
AHEAD TO START OF  
REV 2 DIFFERS FROM  
84:45:12 BY MORE  
THAN 1 MIN

PTC

SYNCHRONIZE MISSION TIMER TO CMC (IF REQUIRED)  
V05N01E, 1706 E

*S.M. 5-100* ✓  
UPLINK TO CSM ✓  
LIFT-OFF TIME ✓  
(IF REQ'D)  
UPDATE TO CSM ✓  
T EPHEM ✓  
(IF REQ'D)  
P37 (L/O +60 TIG) ✓  
(IF REQ'D)  
LOI-5 FLYBY TIG ✓  
(IF REQ'D)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	CHANGE A (JAN)	DECEMBER 23, 1970	54:00 - 55:00	3/TLC	3-52

MSC Form 29 (May 69)

FLIGHT PLANNING BRANCH

NASA — MSC

MCC-H

2123 CST

## FLIGHT PLAN

## NOTES

DAP LOAD STATUS  
(21101)(X1111)

55:00  
:10  
:20  
55:30  
:40  
:50  
56:00

M  
S  
T  
N

PTC

S-IV B PHOTOGRAPHY

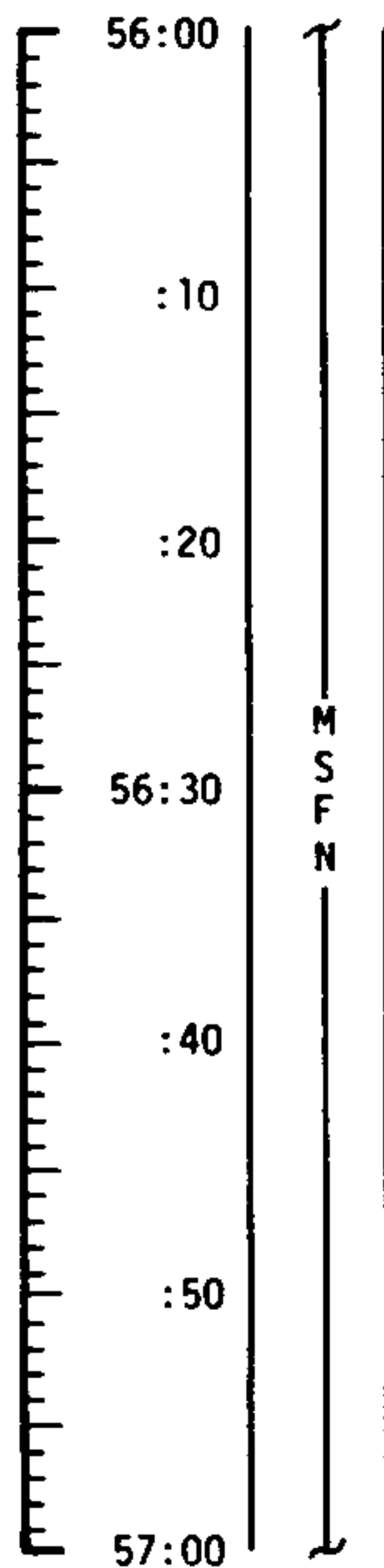
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	55:00 - 56:00	3/TLC	3-53

MCC-N

2223 CST

# FLIGHT PLAN

## NOTES



DAP LOAD STATUS  
(21101)(X1111)

PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	56:00 - 57:00	3/TLC	3-54

MCC-H

2323 CST

## FLIGHT PLAN

## NOTES

TIME	EVENTS	REMARKS
57:00		CREW EXERCISE PERIOD
:10		
:20		
57:30	MSFN	
:40		
:50		
58:00		

PTC

DAP LOAD STATUS  
(21101)(X1111)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	57:00 - 58:00	3/TLC	3-55

MCC-M

0023 CST

# FLIGHT PLAN

## NOTES

58:00  
:10  
:20  
58:30  
:40  
:50  
59:00

M  
S  
E  
N

EAT PERIOD

PTC

DAP LOAD STATUS  
(21101)(X1111)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	58:00 - 59:00	3/TLC	3-56



MCC-H

0123 CST

## FLIGHT PLAN

## NOTES

DAP LOAD STATUS  
(21101)(X1111)

## CSM G&amp;C CHECKLIST

 $\Delta V$  TEST & NULL BIAS CHECK  
REPORT: BIAS

PAGE G 2-5

## P52 IMU REALIGN

N71: \_\_\_\_\_

N05: \_\_\_\_\_

N93: \_\_\_\_\_

X \_\_\_\_\_

Y \_\_\_\_\_

Z \_\_\_\_\_

GET \_\_\_\_\_:\_\_\_\_\_:\_\_\_\_\_

UPLINK TO CSM  
CSM S.V. & V66  
MCC-3 TGT LOADUPDATE TO CSM  
GO/NO-GO MCC-3  
MCC-3 MNVR PAD59:00  
:10  
:20  
59:30  
:40  
:50  
(21101)  
(X1111)  
60:00M  
S  
F  
N{ IF LM/CM  $\Delta P$  < 2.7 PSID - VENT  
UNTIL  $\Delta P$   $\geq$  2.7O<sub>2</sub> HEATERS 1&2 (2) - AUTO  
O<sub>2</sub> HEATERS 3 (1) - OFFP52 IMU REALIGN  
OPTION 3 REESMAT  
(PTC ORIENT)O<sub>2</sub> Purge ~~not~~  
DuffREPORT: GYRO TORQUING ANGLES(EXIT G&N PTC IF MCC-3  
IS REQUIRED)

PAGE G 8-3

PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	59:00 - 60:00	3/TLC	3-57

# FLIGHT PLAN

MCC-3  
BURN CHART

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

MCC-H

0223 CST

## FLIGHT PLAN

## NOTES

60:00  
(21101)  
(X1111)

:10

:20

60:30

:40

:50

LOI - 22 HR

M  
S  
F  
N~~P30 EXTERNAL ΔV~~~~V49 MNVR TO PAD BURN ATTITUDE~~~~SXT STAR CHECK~~~~P40 SPS THRUSTING OR P41 RCS THRUSTING~~~~O<sub>2</sub> FUEL CELL PURGE~~~~WASTE WATER DUMP~~

MCC-3

~~V60 SET CSM S.V. INTO LM S.V.~~~~BURN STATUS REPORT~~

TIG: 60:38:14  
 BT: NOM. ZERO  
 ΔVT: NOM. ZERO  
 ULLAGE: NONE  
 ORBIT: N/A

PREPARE TRANSFER ITEMS PER  
 LM ACTIVATION CHECKLIST  
 REMOVE 16MM & 70MM MAG FROM R13

MCC-3 WILL BE  
 DELAYED TO MCC-4  
 IF PROPELLANT  
 COST IS NOT  
 PROHIBITIVE

## BURN STATUS REPORT

X	X		•	ΔTIG
X	X		•	BT
			•	V <sub>gx</sub>
TRIM				
X	X	X		R
X	X	X		P
X	X	X		Y
			•	V <sub>gx</sub>
			•	V <sub>gy</sub>
			•	V <sub>gz</sub>
			•	ΔV <sub>c</sub> *
X	X	X		FUEL *
X	X	X		OX *
X	X	X		UNBAL

\*ITEMS TO BE  
 REPORTED TO MSFN

PTC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	60:00 - 61:00	3/TLC	3-59

MCC-H

0223  
0323 ESTUPLINK TO CSM  
ΔH (IF REQUIRED)

## FLIGHT PLAN

## NOTES

61:00  
(21101)  
(X1111)

## CSM SYSTEMS CHECKLIST

IVT TO LM (CHECK OUT, TLC)

PAGE S 2-1

PRESSURIZE CSM TO 5.7 PSIA

:10

:20

61:30

M  
S  
F  
NTV (HSK) 61:45 to 62:30  
CM/TV - AVG (f5.6)

PRESSURIZE LM

EXIT G&amp;N PTC

PAGE G 8-3

V48 (21111)(X1111)

V49 MNVR TO TV ATTITUDE (61:45)

(282,090,000) -4 105

ACQ MSFN HGA P 34, Y 263

PREPARE FOR LM INGRESS

REMOVE TUNNEL HATCH AND STOW

REMOVE PROBE &amp; DROGUE AND STOW

:50

62:00

T  
V

PTC

ΔH DETERMINED  
FROM STAR/EARTH  
HORIZON SIGHTINGS  
WILL BE UPLINKED  
IF IT DIFFERS FROM  
ΔH IN E-MEMORY  
BY MORE THAN 5.0 KM

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	61:00 - 62:00	3/TLC	3-60

MSC Form 25 (May 69)

FLIGHT PLANNING BRANCH

NASA — MSC

# FLIGHT PLAN

CSM

LM

MCC-H

REPORT: CMP  
DOCKING  
TUNNEL INDEX ANGLE

0423 CST

(62:00)  
(21111)  
(X1111)

CDR

LMP

ACTIVATION CHECKLIST

PAGE 1-1

IVT TO LM

ENTRY STATUS CHECK

IVT TO LM

:10

:20

(62:30)

HOUSEKEEPING

HOUSEKEEPING

:40

:50

(63:00)

OMNI C

SECURE HGA,  
HGA TRACK-MAN,  
HGA P -52, Y 270

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	62:00 - 63:00	3/TLC	3-61

# FLIGHT PLAN

**CSM**  
**CMP**

**LM**

**MCC-H**

0523 CST

**CDR**

**LMP**

CSM POWER TO LM-OFF  
(AT LMP REQUEST)

VHF SIMPLEX VOICE  
CHECK WITH LM

CSM POWER TO LM - ON  
(AT LMP REQUEST)

<div> <div>0523 CST</div> <div> <div>63:00</div> <div>(21111)</div> <div>(X1111)</div> </div> <div>:10</div> <div>:20</div> <div> <div>62:30</div> <div>WATER DUMP</div> </div> <div>:40</div> <div>:50</div> <div>63:00</div> </div>	M S E N	HOUSEKEEPING	HOUSEKEEPING
		COMM ACTIVATION	COMM ACTIVATION
			S-BAND/VHF SIMPLEX VOICE TEST
		OPS CHECKOUT	OPS CHECKOUT
		COMM DEACTIVATION	COMM DEACTIVATION

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	63:00 - 64:00	3/TLC	3-62

MSC Form 1674 (OT)(June 69)

FLIGHT PLANNING BRANCH

MCC-H

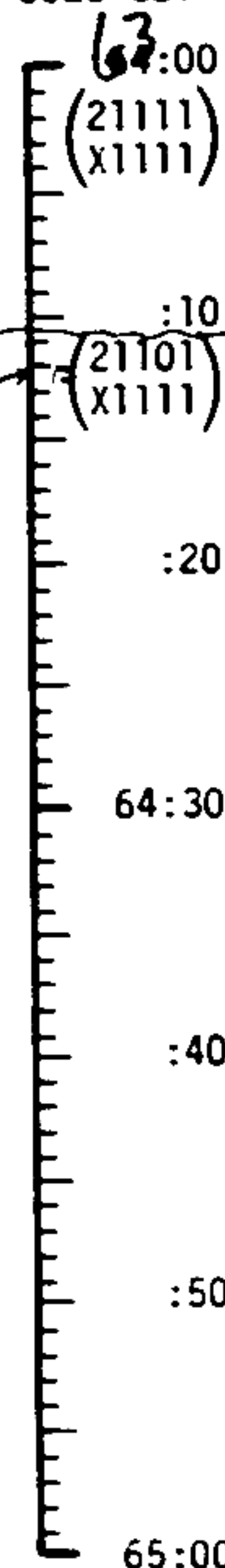
0623 CST

# FLIGHT PLAN

NOTES

UPDATE TO CSM  
QUADS TO ENABLE  
FOR PTC SPINUP

60



LMP & CDR IVT TO CSM & CLOSE LM HATCH  
INSTALL PROBE, DROGUE AND CM HATCH

LM TUNNEL VENT VALVE - LM/CM ΔP  
CYCLE CMC MODE - FREE/AUTO

V48 (21101)(X1111)

L10H CANISTER CHANGE  
(7 INTO A, STOW 5 IN B6)

CSM G&C CHECKLIST

PASSIVE THERMAL CONTROL (G&N)

(N20,090,000)

V79 (-0.3750)(+030.00)(+00000)

GET: 65:00

F.O.V. 3°

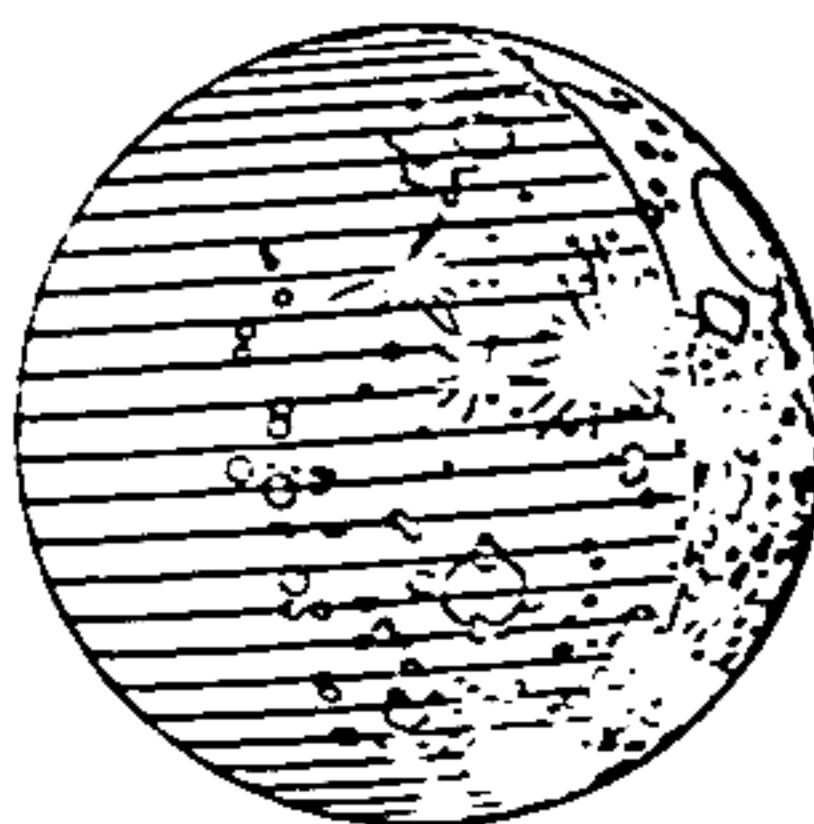
PAGE G 8-2

PTC

DAP LOAD STATUS  
(21101)(X1111)

GET: 65:00

F.O.V. 5°



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	64:00 - 65:00	3/TLC	3-63

MCC-H

0723 CST

## FLIGHT PLAN

## NOTES

DAP LOAD STATUS  
(21101)(X1111)

## ONBOARD READOUT

BAT C	37.0
PYRO BAT A	37.4
PYRO BAT B	37.4
RCS A	87
B	87
C	85
D	86

DC IND SEL - MNA OR B

65:00

:10

O<sub>2</sub> HEATERS 1&2 (2) - OFF  
O<sub>2</sub> HEATERS 3 (1) - AUTO

:20

65:30

:40

:50

66:00

M  
S  
T  
B

EAT PERIOD

PTC

CSM SYSTEMS CHECKLIST  
PRE-SLEEP CHECKLIST

PAGE S 1-26

UPDATE TO CSM  
CSM S.V. (67:00)

EARTH DISTANCE  
≈ 184 307 NM

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	65:00 - 66:00	3/TLC	3-64

MSC Form 29 (May 69)

FLIGHT PLANNING BRANCH

NASA — MSC

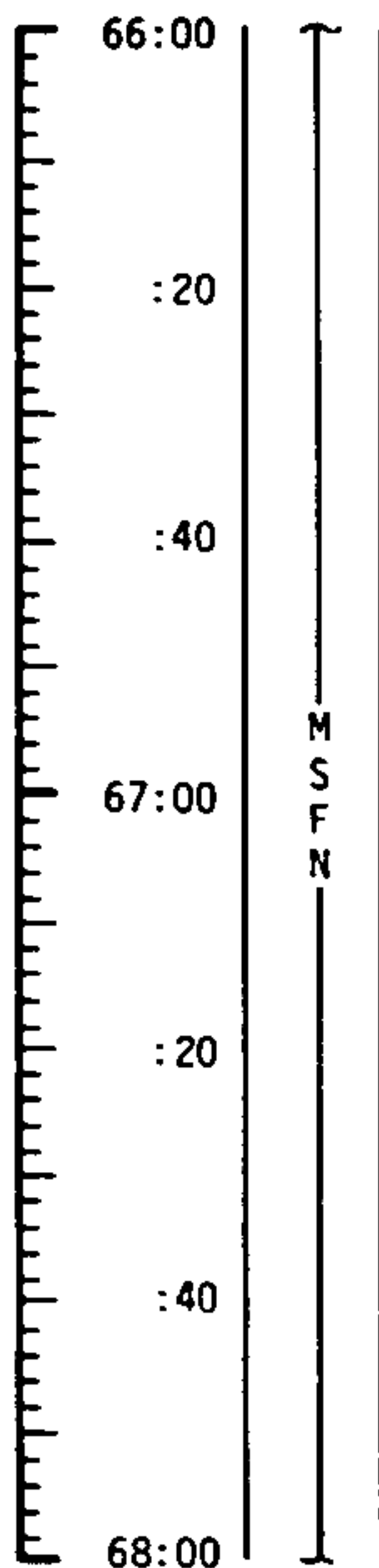


MCC-H

0823 CST

# FLIGHT PLAN

## NOTES



REST PERIOD  
(9 HOURS)

PTC

DAPLOAD STATUS  
(21101)(X1111)

DURING REST PERIOD,  
TWO CREWMEN IN  
REST STATIONS AND  
ONE IN COUCH

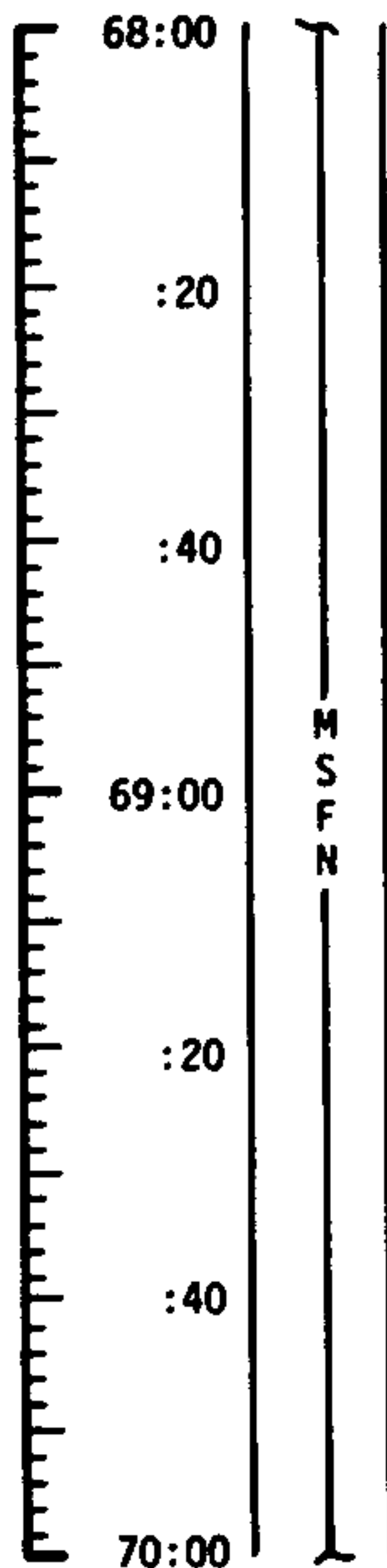
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	66:00 - 68:00	3/TLC	3-65

MCC-H

1023 CST

# FLIGHT PLAN

## NOTES



REST PERIOD  
(9 HOURS)

PTC

DAP LOAD STATUS  
(21101)(X1111)

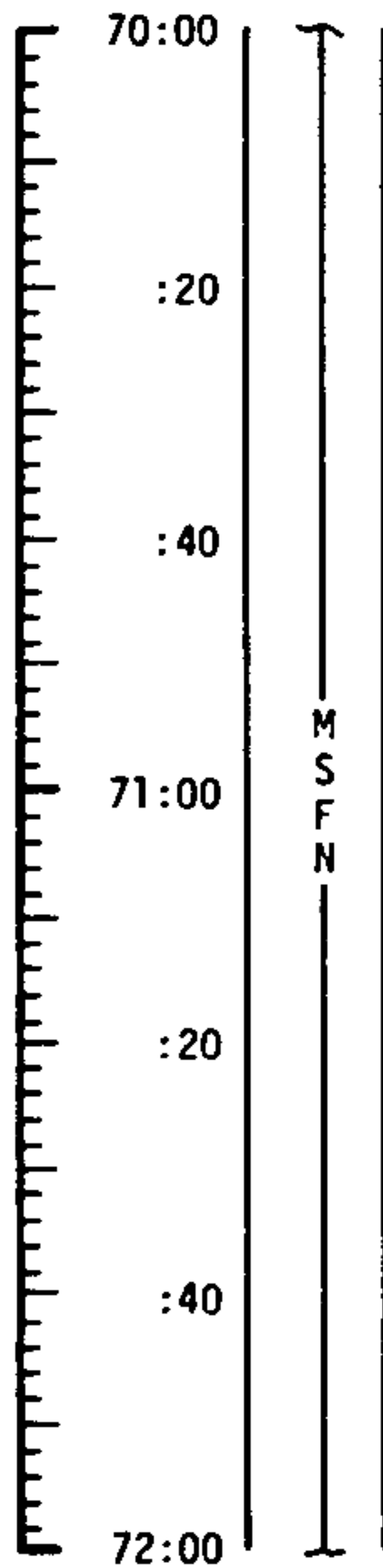
MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	68:00 - 70:00	3/TLC	3-66

MCC-H

1223 CST

# FLIGHT PLAN

## NOTES



REST PERIOD  
(9 HOURS)

PTC

DAP LOAD STATUS  
(21101)(X1111)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	70:00 - 72:00	3/TLC	3-67

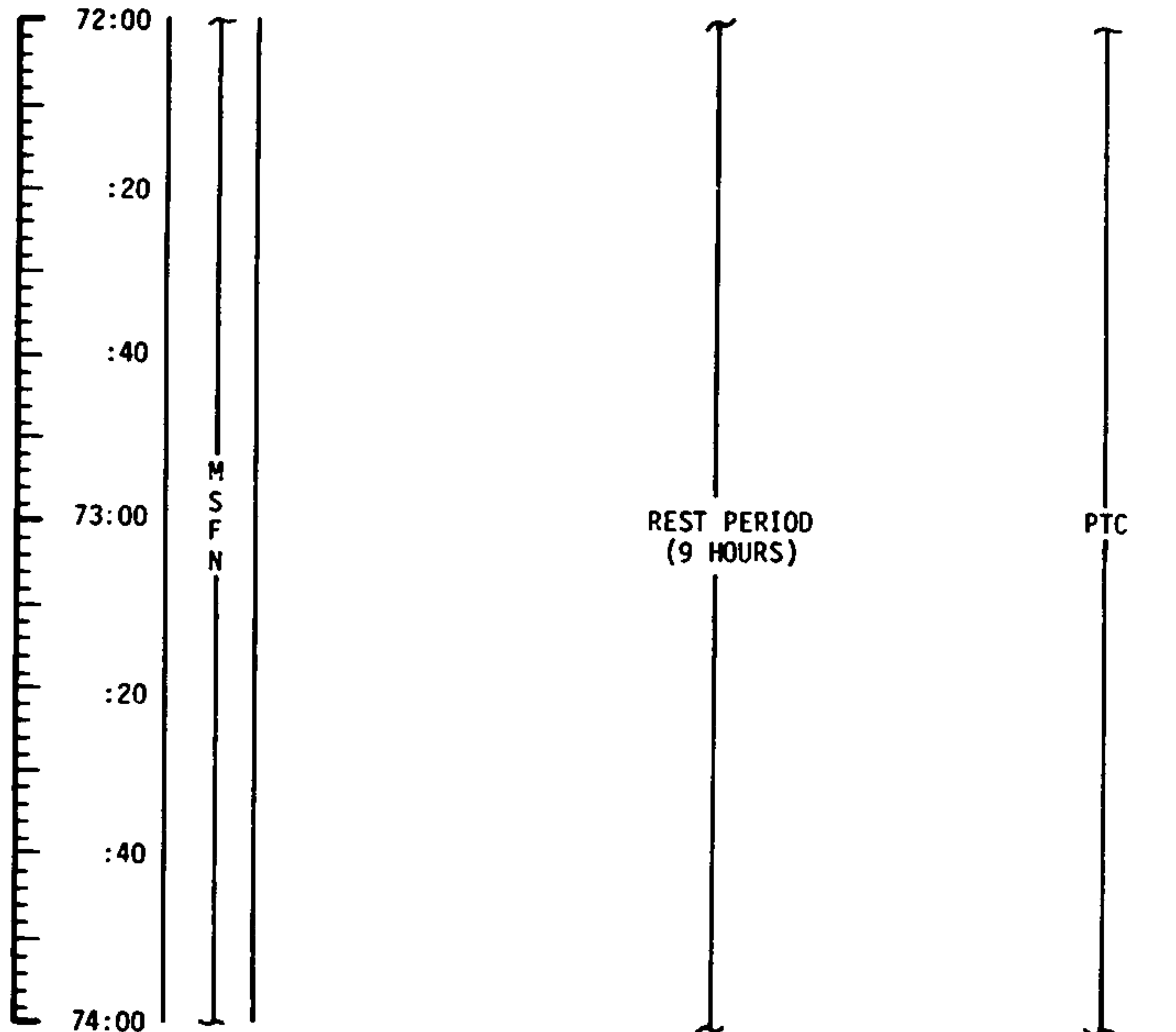
MCC-N

1423 CST

# FLIGHT PLAN

## NOTES

DAP LOAD STATUS  
(21101)(X1111)



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	72:00 - 74:00	3/TLC	3-68

MCC-H

1623 CST

# FLIGHT PLAN

## NOTES

74:00  
:20  
:40  
75:00  
:20  
:40  
76:00

M  
S  
F  
N

REST PERIOD  
(9 HOURS)

CSM SYSTEMS CHECKLIST  
POST-SLEEP CHECKLIST

PAGE S 1-26

EAT PERIOD

PTC

DAP LOAD STATUS  
(21101)(X1111)

IF MCC-4 IS NOT  
PERFORMED, CREW  
AWAKE TIME IS 78:00

EARTH DISTANCE  
≈ 196 739 NM

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 14	FINAL (JAN)	DECEMBER 2, 1970	74:00 - 76:00	3-4/TLC	3-69