FLIGHT PLAN

MCC-H

NOTES

1130 EDT

02:00

:10 — TAN

GDC ALIGN TO IMU
PYRO LOGIC ARM
CMP - TRANS TO COUCH

:20

SET ORDEAL TO ORB RATE

REPORT:
TLI BURN STATUS
VI__ __ __ __ __
ΔVC__ __ __ __ __

:30 — CRO

GO/NO GO

GO/NO GO FOR TLI
TB-6 (02:34:48)

:40 — MER

THRUST MON - P47

TLI

GETI = 02:44:26
BT = 5:20
ΔV_T =10,451.2FPS
POSIGRADE

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

:50 — MSFN

POO - CMC IDLING
V66 - TRANS CSM SV TO LM SLOT
TLI BURN STATUS REPORT
CDR - TRANS TO CENTER COUCH, CMP - LEFT COUCH, LMP - RIGHT COUCH

03:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 11	FINAL	JULY 1, 1969	02:00 - 03:00	1/2	3-3

FLIGHT PLAN

1230 EDT			NOTES
03:00	MSFN	WASTE STOWAGE VENT VLV - CLOSED PRESS CABIN TO 5.7 PSIA GDC ALIGN TO IMU VERIFY AND ACTIVATE RCS DAP R1=11103, R2=01111	DAP LOAD FOR SEPARATION CSM, 0.5°DB, 2.0°/SEC, B/D ROLL, 4 JETS
:10		CSM SEP PREPARATION LOAD DOCKING GIMBAL ANGLES START 16mm CAMERA CSM/SIV-B SEP GET = 03:15	
:20		DOCKING PHOTOGRAPHY T&D MNVR +X 0.8 FPS AFTER 15 SEC, -X 0.3 FPS AUTO MNVR TO DOCKING ATT NULL TRANSLATION & RATES +X TO CLOSE AT .25 TO .5 FPS	EL PHOTOS AS CONVENIENT
		DOCK GET = 03:25 POST DOCKING S-BAND HGA ANGLES = P_____ Y _____ STOP 16mm CAMERA	
:30		CMP - INITIATE CM/LM PRESS EQUALIZATION	
:40		CONFIGURE FOR EXTRACTION CHECK LM PRESS STABILIZATION REMOVE AND TEMP STOW TUNNEL HATCH CHECK DOCKING LATCHES VENT DOCKING PROBE CONNECT UMBILICALS - VERIFY PWR TO LM REINSTALL HATCH	
:50		LM/CM ΔP VALVE - LM/CM ΔP VERIFY TUNNEL EQUALIZATION - CLOSED WASTE STOWAGE VENT VALVE - OPEN (FOR 8 HOURS)	DECISION TO END CM CABIN PURGE WILL BE MADE REAL TIME BASED ON LM LEAK RATE
04:00			

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 11	FINAL	JULY 1, 1969	03:00 - 04:00	1/TLC	3-4

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EVASIVE MANEUVER
BURN CHART

	P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
EVASIVE MNVR	10°/SEC TAKEOVER	±10° TAKEOVER	BT + 1 SEC	DO NOT TRIM

FLIGHT PLAN

MCC-H

UPDATE
EVASIVE MNVR
GO/NO GO-GO

TLI CUT OFF
+ 1 HR 50 MIN

1330 EDT

04:00
:10
:20
:30
:40
:50
05:00

MSFN

RECORD EVASIVE MNVR PAD
GO/NO-GO FOR PYRO ARM & LM EJECTION
DAP - R1 = 21101, R2 = 11111
PYRO LOGIC ARM
THRUST MONITOR - P47

LM EJECTION

GETI = 04:09:45
BT = 3 SEC
ΔV_T =

EXT ΔV = P30
DAP- R1 = 21111 R2 = 11111
DAP CONFIGURATION AFTER
LM EJECTION SAME AS ABOVE
EXCEPT CHANGE TO 5° DB

SPS THRUST - P40
PITCH DOWN 75° WRT LOCAL HORIZONTAL
ROLL TO VISUALLY ACQ SIV-B

SM RCS MON CK

GDC ALIGN TO IMU

EVASIVE MNVR

GETI = 04:39:45
NO ULLAGE
BT = 2.8 SEC
ΔV_T = 19.7
IN PLANE

SM RCS MON CK
SPS MON CK
BURN STATUS REPORT
V66 - TRANS CSM STATE VECTOR
TO LM SLOT
MANEUVER TO OBSERVE SLINGSHOT

DAP CONFIGURATION FOR
LM EJECTION: CSM & LM
0.5° DB, .05°/SEC, A/C
ROLL, 4 JETS

NOTE:
WITH RT TLM, ONLY
ITEMS NORMALLY
REQUIRED IN BURN
STATUS REPORT ARE
ΔVC, FUEL, OX, AND
UNBAL

NOTES

FOR LM EJECTION
RELATIVE ΔV FROM
SPRINGS ≈1 FPS

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

FIRST SPS BURN WILL
ALWAYS START ON
BANK A AND BANK B
WILL BE ACTIVATED IF THE
THE BURN > 5 SEC

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 11	FINAL	JULY 1, 1969	04:00 - 05:00	1/TLC	3-5

MCC-H

FLIGHT PLAN

NOTES

1430 EDT

05:00

S-IVB SLINGSHOT

REPORT LM/CM ΔP

:10

DOFF & STOW
HELMET, GLOVES
AND PGA'S

:20

BATTERY CHARGE, BATTERY B

:30

MSFN

REPORT

P52 - (PAD REFSMMAT)

N71: __ __,__ __

N05: __ __ __.__ __

N93:

X __ __.__ __ __

Y __ __.__ __ __

Z __ __.__ __ __

GET __ __ __:__ __:__ __

IMU REALIGN - P52
OPTION 3 - REFSMMAT

:40

UPDATE
BLOCK DATA

:50

GDC ALIGN TO IMU
RECORD BLOCK DATA
(P37 - TLI + 11 HRS ABORT)

MNVR TO SIGHTING ATT

06:00

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 11	FINAL	JULY 1, 1969	05:00 - 06:00	1/TLC	3-6

MSC Form 29 (May 69)

FLIGHT PLANNING BRANCH

MCC-H

FLIGHT PLAN

1500 EDT
06:00

:10

:20

:30

:40

:50

07:00

MSFN

CISLUNAR NAVIGATION - P23

OPTICS CALIBRATION

1. STAR 02 ENH (R3=00110)

2. STAR 40 EFH (R3=00120)

3. STAR 44 ENH (R3=00110)

4. STAR 44 ENH (R3-00110)

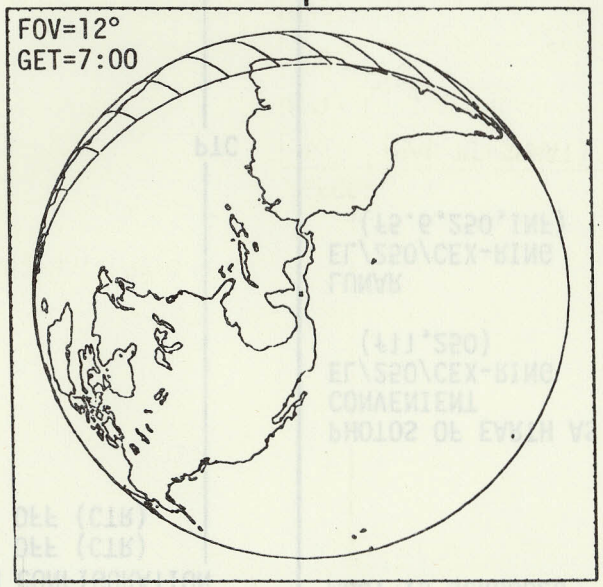
5. STAR 45 ENH (R3-00110)

NOTES

3 MARKS ON EACH STAR

INCORPORATE P23 MARK DATA AND UPDATE ONBOARD STATE VECTOR

TRN BIAS CALIBRATION REPEATED UNTIL 2 CKS AGREE TO WITHIN 0.003° REPEAT CKS EVERY 30 MIN DURING P23



MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 11	FINAL	JULY 1, 1969	06:00 - 07:00	1/TLC	3-7

FLIGHT PLAN

1630 EDT

07:00
:10
:20
:30
:40
:50
08:00
:10
:20
:30
:40
:50
09:00

MSFN

DEACTIVATE PRIMARY & SECONDARY EVAPORATORS
MNVR TO PTC ATT P 90 Y 0 (SEE NOTES)
SELECT NORMAL LUNAR COMM CONFIGURATION
EXCEPT: S-BD AUX TAPE - OFF (CTR)
TAPE RCDR FWD - OFF (CTR)
POWER DOWN VHF

EAT PERIOD-ALL

PTC

NOTES

PTC WILL BE INITIATED AFTER MCC1, OR AFTER MCC1 IS SCRUBBED

PHOTOS OF EARTH AS CONVENIENT
EL/250/CEX-RING
(f11,250)

LUNAR
EL/250/CEX-RING
(f5.6,250,INF)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 11	FINAL	JULY 1, 1969	07:00 - 09:00	1/TLC	3-8