

# FLIGHT PLAN

MCC-H

0754 CST

NOTES

UPDATE TO CSM  
CONSUMABLES STATUS  
FLIGHT PLAN  
MS BOOM RETR  
TIME (15 FEET)



M  
S  
F  
N

**CSM SYSTEMS CHECKLIST**

POST-SLEEP CHECKLIST PAGE S/1-29  
LOGIC PWR (2) - DPLY/RETR

MS - RETR TO 15 FEET (1 MIN 14 SEC)  
REPORT: CM INJECTOR VALVE TEMPS  
(SYS TEST METER 5C,5D,6A,6B,6C,6D)

CMP & LMP DON BIOMED HARNESS

LiOH CANISTER CHANGE  
(24 INTO A, STOW 22 IN A5)  
UPDATE STOWAGE LIST & TAPE TO LEB  
V48 (11102)(01111)

**CSM G&N CHECKLIST**

EXIT G&N PTC (COUPLED JETS) PAGE G/8-3  
V49 MNVR TO GAL ANTI CENTER POINT ATT (284:45)  
(339,084,359) OMNI C

TERMINATE TIMING VOIDS AND MEASURING FLUID INTAKE

EAT PERIOD

SUPER  
GAL  
PTC

GAL  
ANTI  
CENTER  
POINT

SIM EXP STATUS  
(\*0211)  
(00222)

DAP LOAD STATUS  
(11101)(X1111)

**CM RCS INJECTOR TEMP**

5C	5D
6A	6B
6C	6D

EARTH DISTANCE  
~39,600 NM

MSFN CMDS:  
DSG RECORD HBR

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	227/23/6/72 (P&I)	284:00 - 285:00	13/TEC	3-386

CHANGE A

FLIGHT PLANNING BRANCH

# FLIGHT PLAN

MCC-H

0854 CST

## NOTES

SIM EXP STATUS  
(\*0221)  
(00222)

285:00  
(11102)  
(01111)

:10

:20

285:30

:40

:50

286:00

M  
S  
F  
N

EAT PERIOD

GAL  
ANTI  
CENTER  
POINT

GR: SHIELD - OFF  
MS: ION SOURCE - OFF  
EXP - OFF  
CAUTION: WAIT 5 MIN BEFORE RETRACTING BOOM  
XR - OFF  
AP - OFF  
AP/XR COVER - CLOSE  
MS - RETR  
GR - RETR  
GR - OFF  
V49 MNVR TO P52 ATTITUDE (286:00)  
(157,134,040) HGA P -37, Y 80  
LOGIC PWR (2) - OFF

CSM ENTRY CHECKLIST PAGE E/1-1

EI -5 HR

MSFN CMDS:  
DSE STOP/REWIND

UPDATE TO CSM  
GO/NO-GO FOR MCC-7  
MCC-7 MNVR PAD  
ENTRY PAD

UPLINK TO CSM  
CSM S.V. & V66  
MCC-7 TGT LOAD  
DESIRED ORIENT  
(ENTRY)

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	285:00 - 286:00	13/TEC	3-387

# FLIGHT PLAN

MCC-H

0954 CST

NOTES

MSFN CMDS:  
DSE DUMP

286:00  
(11102)  
(01111)  
:10  
:20  
286:30  
:40  
:50  
287:00

M  
S  
F  
N

LIMIT CYCLE - ON  
ATT DEADBAND - MIN STARS \_\_\_\_\_  
RATE - LOW SA \_\_\_\_\_  
BMAG (3) - ATT 1/RATE 2 TA \_\_\_\_\_  
SC CONT - SCS  
P52 (OPTION 3)  
(PTC ORIENT)  
REPORT: GYRO TORQUING ANGLES  
P52 (OPTION 1)  
(ENTRY ORIENT)  
GDC ALIGN  
SC CONT - CMC  
BMAG (3) - RATE 2  
ECS CKS  
EPS CKS  
SPS CK  
RCS CKS  
C&W SYS CK

\*P30 EXTERNAL ΔV  
\*V49 MNVR TO PAD BURN ATT

DATA SYS - OFF

P52 IMU REALIGN	
N71:	_____
N05:	_____
N93:	_____
X	_____
Y	_____
Z	_____
GET	_____

\*PERFORMED IF  
MCC-7 IS REQUIRED

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	CHANGE A (4/16)	3/27/72	286:00 - 287:00	13/TEC	3-388

FLIGHT PLANNING BRANCH

EI -4 HR

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# FLIGHT PLAN

## MCC-7 BURN TABLE

MANEUVER	P OR Y RATES	ATT DEVIATION	SHUTDOWN TIME	RESIDUALS
CORRIDOR CONTROL	10°/SEC COMPLETE	+10° COMPLETE	BT + 1 SEC AND $C_c = 0$	TRIM X AXIS ONLY TO 0.2 FPS

APOLLO 16

FINAL (4/16)

3/6/72

3-390

MCC-H

1054 CST

# FLIGHT PLAN

NOTES



M  
S  
F  
N

\*SXT STAR CHECK

\*P40 SPS THRUSTING OR  
\*P41 RCS THRUSTING

TIG: 287:23
BT: NOM ZERO
ΔVT: NOM ZERO
ULLAGE: NOM ZERO

MCC-7

\*V66 SET CSM S.V. INTO LM S.V.  
\*REPORT: BURN STATUS

**CSM EXP/EVA CHECKLIST**

V49 MNVR TO EARTH UV PHOTO ATT (287:50)  
(299,338,001) OMNI D  
EARTH UV PHOTOGRAPHY SEQ B, PAGE X/2-17  
MAG (OO)  
MAG (RR)

**LOOK FOR NOCTILUCENT CLOUDS**

\*PERFORMED IF MCC-7  
IS REQUIRED

BURN STATUS REPORT			
X	X	<input type="checkbox"/>	•
X	X	<input type="checkbox"/>	•
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	•
TRIM			
X	X	X	
X	X	X	
X	X	X	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	•
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	•
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	•
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	•
X	X	X	
X	X	X	
X	X	X	

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

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL <sup>a</sup> (4/16)	3/27/72 3/6/72e (P1)	287:00 - 288:00	13/TEC	3-391

CHANGE A

FLIGHT PLANNING BRANCH

MCC-H

1154 CST

# FLIGHT PLAN

## NOTES

288:00  
(11102)  
(01111)

:10

REMOVE AND STOW CABIN FAN FILTER (U2)

:20

STOW FLIGHT PLAN

**CSM ENTRY CHECKLIST**

LOGIC SEQUENCE CHECK PAGE E/1-2  
GO/NO-GO FOR PYRO ARM (CUE MSFN)

288:30

M  
S  
F  
N

:40

P52 (OPTION 3) PAGE E/1-2  
(ENTRY ORIENT)

:50

REPORT: GYRO TORQUING ANGLES  
GDC ALIGN PAGE E/1-3

289:00

EARTH DISTANCE  
~20,900 NM

P52 IMU REALIGN

N71: \_ \_ . \_ \_

N05: \_ \_ . \_ \_

N93: \_ \_ . \_ \_

X \_ \_ . \_ \_

Y \_ \_ . \_ \_

Z \_ \_ . \_ \_

GET \_ \_ : \_ \_

EI -2 HR  
UPDATE TO CSM  
GO/NO-GO FOR PYRO  
ARM SEQUENCE

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	288:00 - 289:00	13/TEC	3-392

FLIGHT PLANNING BRANCH

# FLIGHT PLAN

MCC-H

1254 CST

NOTES

289:00  
(11102)  
(01111)

:10

:20

289:30

:40

:50

290:00

M  
S  
F  
N

V49 MNVR TO HORIZON CHECK ATTITUDE  
BORESIGHT & SXT STAR CHECK

EMS ENTRY CHECK PAGE E/1-3  
 PRI AND SEC WATER EVAP ACTIVATION PAGE E/1-4  
 CONFIGURE CAMERA EQUIP FOR FIREBALL AND CHUTES PHOTOS  
 CM RCS PREHEAT (IF REQD)  
 FINAL STOWAGE PAGE E/1-5

CONFIGURE FOR VHF A SIMPLEX VOICE CHECK

TERMINATE RCS PREHEAT PAGE E/1-5  
 CM RCS ACTIVATION PAGE E/1-6  
 GO/NO-GO FOR PYRO ARM (CUE MSFN)  
 LOGIC ON  
 CONFIGURE DSE: (STOP/CMD RESET/REWIND)  
 SET DET (UP, TO EI) PAGE E/2-1  
 EMS INITIALIZATION

RSI ALIGNMENT  
 CM RCS CHECK

CONFIGURE DSE: (HBR/RCD/FWD/CMD RESET)

SEPARATION CHECKLIST PAGE E/2-2

EI -1 HR

VHF - A SIMPLEX  
 COMM CHECK  
UPDATE TO CSM  
 GO/NO-GO FOR  
 PYRO ARM  
 ENTRY PAD  
 RECOVERY PAD

UPLINK TO CSM  
 CSM S.V. & V66

EI -30 MIN

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	289:00 - 290:00	13/TEC	3-393

FLIGHT PLANNING BRANCH



MCC-H

1354 CST

# FLIGHT PLAN

NOTES



M  
S  
F  
N

P61 ENTRY PREP PAGE E/2-2  
 P62 CM/SM SEP & PRE-ENTRY MINVR  
 SECS PYRO ARM

CM/SM SEP 290:07

EI 290:22:45

SPLASHDOWN 290:36:03

TRAJECTORY EVENTS	TIME FROM 400K FT MIN:SEC
400K FT (GET 290:22:45)	00:00
ENTRY S-BAND BLACKOUT	00:17
0.05G	00:28
KA-INITIATE CONSTANT DRAG	00:52
RDOT = -700 FPS	01:18
PEAK G	01:22
SUBCIRCULAR VELOCITY	02:02
P64 TO P67	02:06
EXIT S-BAND BLACKOUT	03:33
GUIDANCE TERMINATION	06:50
DROGUE DEPLOYMENT	07:49
MAIN DEPLOYMENT	08:31
SPLASHDOWN	13:18

MISSION	EDITION	DATE	TIME	DAY/REV	PAGE
APOLLO 16	FINAL (4/16)	3/6/72	290:00 - 291:00	13/TEC-EI	3-394

FLIGHT PLANNING BRANCH