LM ACTIVATION CHECKLIST

PREPARED BY

GUIDANCE & CONTROL PROCEDURES SECTION
SYSTEMS PROCEDURES BRANCH
CREW PROCEDURES DIVISION

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

JUNE 14, 1971
APOLLO 15

LM ACTIVATION CHECKLIST

6/14/71

PREPARED BY: GARY DOERRE
BOOK MANAGER

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GUIDANCE & CONTROL PROCEDURES SECTION
CREW PROCEDURES DIVISION

It is requested that any organization having comments, questions, or suggestions concerning this document contact Gary Doerre, Systems Procedures Branch, CG22, Building 4, room 252, telephone 483-2651.

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Distribution of this document is controlled by Flight Data File Manager, T. W. Holloway, Flight Planning Branch, Crew Procedures Division.
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CSM TO LM TRANSFER LIST (ILC)

Scissors (1) - Data File
CWG Elect Adapter (2)
Comm Carriers (2)
UTIL Straps (3) - LHSSC
Inflight Retainer Straps (4) - LHSSC
70mm Magazines (13):

3 in Bag - FWD RHSSC (MM, VV, WW)
4 in Bag - AFT RHSSC (KK, LL, NN, OO)
6 in Bag - Behind Engine Cover (PP-UU)
16mm Magazines (10):

6 in Bag w/Dosimeter - RHSSC (CC-HH)

2 in Bag - Behind Engine Cover (II, JO)

1 in Bag - ISA Top Pocket (BB)

1 - R.H. Window SEQ Camr (AA)

Ancillary Stowage Bag - LHSSC

Flight Data In Bag:

LM ACTIVATION CHECKLISTS (2)

DATE ...6/14/71...
DATE 4/5/71

1-1

33:00

IVT TO LM

1 Activate CABIN DUMP VALVE & Open Hatch
   Carry Comm Carrier, CWG Connector &
   CSM O2 Hose

2 Record Docking Tunnel Index Angle

3 FLOOD LIGHT - All
   EXTERIOR LTG - OFF
   Window Shades (3) - Open

4 DES H2O - OPEN
   DES O2 - OPEN
   CABIN REPRESS - AUTO
   CB(16) CABIN REPRESS - CLOSE

5 Check AOT Visibility
ENTRY STATUS CHECK

1. Mount Purse (ISA Bottom Pocket)
   Unstow ISA And Install On AFT
   Cabin Rest Station Fittings

2. Verify CD Status Per INITIAL ACTIVATION
   Status Chart

DATE 6/14/71
3 UTILITY LIGHTS (2) - OFF
   RR GYRO SEL - PRIM

4 FDAI 1&2 - INRTL
   EARTH/LUNAR - PWR OFF
   LTG - OFF
   MODE - HOLD/FAST
   ALT SET - 60

5 FUEL & OXID VENT (2) -tb-bp (Wlv Open)
   LDG GEAR DEPLOY - tb-bp
   MASTER ARM - OFF
   ASC HE SEL - BOTH
   MESA - LO
   URINE LINE - OFF
   STAGE - SAFE (Guarded)

6 S-BAND T/R - OFF
   ICS T/R - OFF
   RELAY - OFF
   MODE - ICS/PTT
   AUDIO CONT - NORM
   VHF A&B - OFF
   VOX SENS - 9
   THUMBWHEEL VOL (5)-6
   COAS - OFF
8  TIMER CONT - STOP
LTG OVERRIDE (3) - OFF
SIDE PANELS - OFF
FLOOD OVHD/FWD - BRIGHT
ANUN/NUM - DIM
INTEGRAL - DIM

9  X-POINTER SCALE - HI MULT
RATE/ERR MON - LDG RDR/CMPTR
ATTITUDE MON - PGNS
GUID CONT - PGNS
MODE SEL - LDG RADAR
RNG/ALT MON - ALT/ALT RT
SHIFT/TRUN - ±50°
RATE SCALE - ~25°/SEC
ACA PROP - ENABLE
THR CONT - AUTO
MAN THROT - CDR
ENG ARM - OFF (SW Guard - 12 o'clock)
ATT/TRANS - 4 JETS
BAL CPL - ON
ASC He REG 1&2 - tb - gray (vlv Open)
DESCENT He REG 1 - tb - gray (vlv Open)
DESCENT He REG 2 - tb - bp (vlv Closed)
PRPLNT QTY MON - OFF
PRPLNT TEMP/PRESS MON - ASC
HELIUM MON - OFF
ABORT and ABORT STAGE - Flush/Guarded

DATE  6/14/71
DATE 6/14/71

1-7

10  SYS A&B ASC FUEL & ASC OXID (4) - tb-bp
(Feed 2 - Close, Feed 1 - Open)
SYS A&B QUADS (8) - ENABLE; tb - gray
CRSFD - tb - bp (vlv closed)
SYS A&B MAIN SOV - tb - gray (vlv open)
TEMP/PRESS MON - He
ACA PROP - ENABLE
RATE/ERR MON - LDG RDR/CMPTR
ATTITUDE MON - PGNS
GLYCOL - PUMP 2
SUIT FAN - 1
O2/H2O QTY MON - ASC 2

11  ENG GMBL - ENABLE
DES ENG CMD OVRD - OFF
LDG ANT - AUTO
RADAR TEST - OFF
TEST MONITOR - ALT XMTR
SLEW RATE - HI
RNDZ RDR - SLEW
DEAD BAND - MIN
GYRO TEST - ROLL
ATTITUDE CONTROL (3) - MODE CONT
MODE CONT: (Both) - OFF (PGNS SW Guard - 9 O'Clock)
EVENT TIMER: TIMER CONT - STOP
TEMP MON - LDG
RCS SYS A/B-2 QUADS (4) - OFF
LTG: SIDE PANELS - OFF
FLOOD-A11
OVHD/FWD - BRIGHT
LAMP/TONE TEST - OFF
EXTERIOR LTG - OFF
X-POINTER SCALE - HI MULT

12 ACA/4 JET (2) - ENABLE
TTCA/TRANSL (2) - ENABLE
RNDZ RDR ANT - Stowed
AOT - CL, ANGLE - 0000 (Pushed In)
TTCA (LMP) - JETS
AGS STATUS - OFF

13 PWR TEMP MON-ED/OFF
INV-OFF
DES PWR (6)-tb-bp
ASC PWR (4)-tb-bp
UNLINK SQUELCH-ENABLE

DATE 4/5/71 _
14  AUDIO CONT - NORM
S-BAND T/R - OFF
ICS T/R - OFF
RELAY - OFF
MODE - ICS/PTT
UPDATE LINK - OFF
VHF A&B - OFF
VOX SENS - 9
THUMBWHEEL VOL (5)-6

15  S-BAND MODULATE - PM
XMTR/RCVR - OFF
PWR AMP - OFF
VOICE - OFF
PCM - OFF
RANGE - OFF/RESET
VHF A (2) - OFF (SQUELCH-3)
VHF B (2) - OFF (SQUELCH-3)
TELEMETRY - OFF/HI
RE记ER - OFF (tb-bp)
VHF - AFT
TRACK MODE - OFF
PITCH - -75°
YAW - -12°
S-BAND - AFT
16  SUIT GAS DIVERTER - PULL/EGRESS
    CABIN REPRESS - AUTO
    LO PLSS FILL - CLOSE
    PRESS REG A&B - CLOSE
    DES 02 - OPEN
    ASC 02(2) - CLOSE
    SUIT ISOL (2) - SUIT DISC
    SUIT CIRCUIT RELIEF - AUTO
    CABIN GAS RETURN - AUTO
    CO2 CANISTER SEL - PRIM
    PRIM & SEC CO2 CANISTER - CLOSE
    WATER SEP SEL - PULL/SEP 2
    ASC H2O - CLOSE
    SEC EVAP FLOW - CLOSE
    PRIM EVAP FLOW (2) - CLOSE
    DES H2O - OPEN
    WATER TANK SELECT - DES
    SUIT TEMP - COLD
    LIQUID COOLING GARMENT - COLD
    HI PLSS 02 FILL - CLOSE

17  Verify (192 PKG) Lanyard
    Not Seated

18  FWD CABIN RELIEF AND DUMP - AUTO

DATE ...6/14/73...
DATE 6/14/71

1-11 33:19

HOUSEKEEPING

1. Install 16mm Camr Wedge - RHSSC

2. Remove Stowage Bags From Drink Bags - ISA Back Pocket

3. Position 4 Inflight Retainer Straps (LHSSC) Around CDR's Umbilical

4. Tape Broomclip On AOT

5. Tape Crash Bar

6. Position UTILITY LIGHTS On Back AOT Guard
7 Configure 1-70mm Camr (Top RHSSC):
   Stow Reseau Cover In Camr Compt
   Install HCEX MAG KK (AFT RHSSC) fl11,250,∞
   Stow Dark Slide In Camr Compt
   Unstow Trigger and Handle (RHSSC Camr Pkt)
   Unstow RCU/Camr Brkt (RHSSC)
   Install Trigger, RCU/Camr Brkt, Then Handle
   Stow Camr In RHSSC Camr Compt, 2 Snaps

DATE 6/14/71
COMM ACTIVATION

1  Transfer To LM POWER (FLOOD Lts. Blink, C/W PWR Caution Lt - On)
   CB(11) EPS: XLUNAR BUS TIE - Close
   CB(16) EPS: XLUNAR BUS TIE - Close
   CB(11) LTG: UTIL - Close

2  CB(11) COMM: VHF B XMTR - Close
    : VHF A RCVR - Close
    : CDR AUDIO - Close
   INST: SIG CONDR 1 - Close
   ECS: GLYCOL PUMP 2 - Close

3  CB(16) INST: SIG CONDR 2-Close
   EPS: DISP - Close
    : DES ECA CONT-Close
   Verify DES POWER:
   BAT 1,4 - tb-LO
   2,3, LUN - tb-bp
   DES BAT - tb-gray
4 Check BAT and BUS Voltages

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<tr>
<th>When BUS VOLT &lt; 27V, Select HI Voltage Taps</th>
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<tr>
<td>CB(11) EPS: CROSS TIE BUS - Close</td>
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<td>CB(16) EPS: CROSS TIE BUS - Close</td>
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<tr>
<td>BAT 1 HI-V-ON/RESET; tb-bp, then ON; tb-gray</td>
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<tr>
<td>BAT 4 HI-V-ON/RESET; tb-bp, then ON; tb-gray</td>
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<tr>
<td>CB(16) EPS: CROSS TIE BUS - Open</td>
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<td>: CROSS TIE BAL LOADS - Open</td>
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<thead>
<tr>
<th>When BAT 1 AMP MTR INDICATES &gt; 30</th>
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<td>BAT 2 - ON; tb-gray</td>
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<th>When BAT 4 AMP MTR INDICATES &gt;30</th>
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<td>BAT 3 - ON; tb-gray</td>
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5 CB(11) COMM: SEC S-BD XMT/RVCR - Close
   CB(16) COMM: DISP - Close
   : VHF A XMT - Close
   : VHF B RVCR - Close
   : PRIM S-BD PWR AMPL - Close
   : PMP - Close
   INST: SIG SENSOR - Close
   : PCM/TE - Close
   ECS: DISP - Close
   Check Glycol Pressure ________Psia

6 Connect To LM COMM Umbilical Using
   CWG Connector
   CB(16) SE AUDIO - Close

DATE 4/5/71
* S-BAND/VHF SIMPLEX VOICE TEST *

1 AUDIO (LMP): S-BAND T/R - T/R
   : VHF A - T/R
   : VHF B - OFF
COMM: S-BAND-PM,SEC,PRIM,ON VOICE BU,
      PCM, OFF/RESET,OFF,LO
      VHF A XMTR - VOICE
      VHF A RCVR - ON
      S-BAND ANT - AFT
Perform VHF A Voice Check With CSM

2 COMM: VHF A XMTR & RCVR - OFF
   : VHF B XMTR - VOICE
   : VHF B RCVR - ON
AUDIO (LMP): VHF A-OFF
   : VHF B-T/R
Perform VHF B Voice Check With CSM

3 Perform S-BD Voice & LBR Check With MSFN
   TLM-HI
Perform Voice & HBR Check With MSFN
4 BIOMED-RIGHT
Perform Voice & HBR Check With MSFN

5 TLM-LO
Perform Voice & LBR Check With MSFN

6 S-BAND: VOICE-VOICE
Perform Voice & LBR Check With MSFN

7 TLM-HI
Perform Voice & HBR Check With MSFN

8 TLM-LO
S-BAND: RANGE-RANGE
Perform Voice & Ranging Check With MSFN

9 Record & Report ED BAT Voltage to MSFN
   BAT A ______; BAT B ______

10 CB(16) CAMR: SEQ - Close
Check SEQ Camera Operation

DATE _____4/5/71____
OPS CHECKOUT

1. Perform OPS Checkout
   Read And Record Source Pressures
   CDR OPS ___________

   LMP OPS ___________
COMM DEACTIVATION

1  AUDIO (LMP): S-BAND T/R - OFF
   : VHF B - OFF

2  COMM: S-BAND - PM,OFF,OFF,OFF,OFF,
      : OFF/RESET,OFF,LO
      : VHF B XMTR - OFF
      : VHF B RCVR - OFF

3  Select LO TAPS

   CB(16) EPS: CROSS TIE BUS - Close
   : CROSS TIE BAL LOADS - Close
   BAT 2 - OFF/RESET; tb-bp
   BAT 3 - OFF/RESET; tb-bp
   BAT 4 LO-V-OFF/RESET; tb-bp, then ON; tb-LO
   BAT 1 LO-V-OFF/RESET; tb-bp, then ON; tb-LO

4  Configure CB Panels Per INT ACT STATUS
   Chart (1-3, 1-4)
   Disconnect From LM Comm Umbilical

5  Transfer To CSM Power, Observe C/W
   PWR Lt - Off

   DATE  4/5/71
DATE 4/5/71

1-19

35:00

IVT TO CSM

1 DES O2 - CLOSE
DES H2O - CLOSE
CABIN REPRESS - CLOSE
CB(11) EPS: DC BUS VOLT - Open
CB(16) ECS: CABIN REPRESS - Open
Window Shades (3) - Close

2 FLOOD LIGHT - OFF

3 CABIN RELIEF & DUMP (OVHD) - Open
IVT TO CSM, Close LM Hatch
CSM TO LM TRANSFER LIST (PDI)

Suits And Ancillary Eqpt:

- IV Gloves (CDR Transfer)
- Helmets (CDR Transfer)
- UCTA
- FCS
- Bio Belt & Instrumentation
- Lightweight Headset (2)
- Comm Carriers & earpieces
- CWG Elect Adapter (2)
- Watch & Watchbands (2)
- Sunglasses in pouch
- Pens & Pencils
- Scissors
- Penlights (2)
- Earplugs (2)
- Pocket, Strap On (6)
- LCG Plugs (2)
- Gas Connector Plugs (4)
- PGA Elect Conn Caps (2)
- Personal Radiation Dosimeter (2)
- Passive Dosimeters (6)
- LCG (2) - ISA Big PKT

Flight Data In Bag:

- LM TIMELINE BOOK
- LM DATA CARD BOOK
- LM LUNAR SURFACE CHECKLIST
- ORBIT MONITOR CHART
- ASCENT MONITOR CHART
- LM STAR CHARTS (3)
2-1

97:50

LMP IVT TO LM

1. Activate CABIN DUMP VALVE & Open Hatch
   Carry Comm Carrier & CSM O2 Hose

2. Verify Docking Tunnel Index
   Angle (See 1-1)
   Window Shades (3) - Open
   Deploy LMP Crash Bar

3. Transfer To LM PWR
   (FLOOD Lts. Blink, C/W PWR Caution Lt-On)
   CB(11) EPS: XLUNAR BUS TIE - Close
   CB(16) EPS: XLUNAR BUS TIE - Close

4. FLOOD LIGHT - All
   CB(11) LTG: UTIL - Close

5. DES H2O - OPEN
   DES O2 - OPEN
   CABIN REPRESSION - AUTO
   CB(16) ECS: CABIN REPRESSION - Close

-------------------------------------------------------------------------

SR 97:54  -----------------------------------------------------------------
98:07

CDR IVT TO LM

CDR IVT To LM With CDR & LMP Helmet & Gloves

Connect To LM Comm Umbilical
CB(11) COMM: CDR AUDIO - Close
AUDIO (CDR): S-BAND-T/R : ICS - T/R

1 LTG: ANUN/NUM - BRIGHT (1 Caution, 9 Power Failure, Glycol COMP Lt-On)

2 CB(11) INST: SIG CONDR 1 - Close
EPS: DES ECA CONT - Close
: DC BUS VOLT - Close
CB(16) INST: SIG SENSOR - Close
: PCM/TE - Close
: SIG CONDR 2 - Close
EPS: DISP - Close
: DES ECA CONT - Close

3 Connect To LM Comm Umbilical
AUDIO (LMP): S-BAND T/R - T/R :
: ICS - T/R
CB(11) COMM: SEC S-BD PWR AMPL - Close
CB(16) COMM: DISP - Close
: S.E. AUDIO - Close
: PRIM S-BD XMTR/RCVR - Close
: S-BD ANT - Close
: PMP - Close
S-BAND - PM PRIM SEC, VOICE, PCM, RANGE, OFF,LO
S-BAND ANT - AFT

DATE 6/14/71
ECS ACTIVATION & CHECKOUT

1. O2/H2O QTY MON - ASC 2, ASC 1, DES 1, DES 2

2. SUIT ISOL (2) - SUIT FLOW
   SUIT ISOL (2) - ACTUATE OVRD {Suit Disc}
   SUIT GAS DIVERTER - PUSH/CABIN

3. CB(16) ECS: SUIT FAN 2 - Close
   DIVERTER WLV - Close

   SUIT FAN - 2 (ECS Caution, H2O SEP Comp Lts Off in 2 Min)

4. PRIM EVAP FLOW NO 1 - Open
   GET _____:_____:

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2-7

**98:19**

**CDR CONNECT TO LM ECS**

1. Connect To CDR Hoses (R/B & B/R)
2. PGA DIVERTER VLV - IV (HORIZ)
3. SUIT ISOL - SUIT FLOW

---

**98:19**

**LMP CONNECT TO LM ECS**

1. Return CSM O2 Hose To CSM
2. Connect To LMP Hoses (R/B & B/R)
3. PGA DIVERTER VLV - IV (HORIZ)
4. SUIT ISOL - SUIT FLOW
5. PRESS REG A - EGRESS (Suit Gas Diverter Automatically Extends)
6. CABIN GAS RETURN - EGRESS

Configure CB's Per ACTIVATION PWR UP Chart
ACTIVATION PWR UP

6 - OPEN

11

6 - OPEN

FLIGHT DISPLAYS

9 - OPEN

M.A. LGC ON THEN OFF, RESTART, NO DAP

5 - OPEN

2 - OPEN

DATE 6/14/71
ACTIVATE RCS HEATERS

When BUS Volts ≤ 27V, Select High Voltage Taps
CB(11) EPS: CROSS TIE BUS - Close
CB(16) EPS: CROSS TIE BUS - Close
   : CROSS TIE BAL LOADS - Close
BAT 1 HI-V-OFF/RESET; tb-b/p, then ON;
   tb-gray
BAT 4 HI-V-OFF/RESET; tb-b/p, then ON;
   tb-gray
CB(16) EPS: CROSS TIE BUS - OPEN
   CROSS TIE BAL LOADS - OPEN
When BAT 1 AMP MTR INDICATES > 30
   BAT 2 - ON; tb gray
When BAT 4 AMP MTR INDICATES >30
   BAT 3 - ON; tb gray

TB VERIFICATION

1. CB(16) INST: CWEA - Open Then Close

WARN    CAUT    COMP

RCS A REG
RCS B REG

2. FUEL & OXID VENT (2) -tb-gray
LDG GEAR DEPLOY - tb-bp

3. ASCENT He REG 1&2 -tb-gray
DESCENT He REG 1-tb-gray
DESCENT He REG 2 -tb-bp

4. SYS A&B ASC FUEL & OXID (4)-tb-bp
SYS A&B QUADS (8)-tb-gray
CRSFD tb-bp
SYS A&B MAIN SOV -tb-gray

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DATE 5/4/71

2-11

PGNS TURN-ON & SELF TEST

1. Check Bus Voltages
   RSET (RESTART LT - OFF)

2. V96E
   V35E
   F 88 88
   (Master Alarm, LGC & ISS Warning,
   And All DSKY Lts - On, 8's In All
   Registers; All Lts Except No DAP
   Reset In 5 sec, LGC Warning Resets
   Within 20 Sec)

3. CB(11) PGNS: IMU OPR - Close
   NO ATT Lt - On (Off In 90 sec)

4. V25 NOTE 1365E
   E,E,E,

5. V15 NOTE 1365E
   R1,R2,R3 All Zero

VHF B CHECKOUT

1. CSM Configure for VHF Simplex B
   VHF B XMTR - VOICE
   VHF B RCVR - ON
   VHF ANT - FWD
   AUDIO (Both): VHF B - T/R
   TAPE RECORDER - ON

2. Both CDR & LMP Perform Voice Check
   On VHF Simplex B

VHF A CHECKOUT

1. CSM Configure For VHF Simplex A
   VHF A XMTR - VOICE
   VHF A RCVR - ON
   VHF B XMTR - OFF
   AUDIO (Both): VHF B - RCV
   : VHF A - T/R

2. Both CDR & LMP Perform Voice Check ON
V21 N27E 10E (Test Erasable And Fixed Memory)
R1 Number Of Errors
R2 Number Of Tests Started
R3 Number Of Erasable Tests Successful
Test Successful If R2 ≥ 3 (Minimum 78 sec)

*PROG Lt-On  *
* V05 N09E 01102 SELF-*
* TEST ERROR  *
* N08E  Record For MSFN  *
*  *
* R1  ________  *
*  *
* R2  ________  *
*  *
* R3  ________  *

V21 N27E 0E TERMINATE SELF TEST

DATE  4/5/71
LGC/CMC CLOCK SYNC/TEPHEM UPDATE

1. V25 N36E

2. Load Mission Time _____:_____:_____

3. V06 N65, On Mark - ENTR
   Compare With CSM N65
   
   CSM Time _____:_____:_____ 
   
   LM Time _____:_____:_____ 
   
   V55E - Load AT
   Check Mission Timer

4. Record CSM TEPHEM
   
   R1 ____________
   
   R2 ____________
   
   R3 ____________

5. V25 NO1E, 1706E Load TEPHEM (Octal)
SET DAP

1  V48E
   F 04 46 Codes (Octal)
   R1 ___________ (32022)
   R2 ___________ (00011)
   PRO

2  F 06 47 LM, CSM Wt. (LBS)
   R1 _____ (+36702)
   R2 _____ (+38641)
   PRO

3  F 06 48 GMBL TRIM, PITCH, ROLL (.01°)
   R1 _____ (+00629)
   R2 _____ (+00648)
   (TERM) V34E

*E-MEMORY DUMP

1  Verify MSFN Contact
   V74E (Erasable Dump) (42 sec)

2  HTR CONT TEMP MONITOR - S-BAND
   (-52° to +135°)
   S-BAND -PM,SEC,PRIM,VOICE,PCM,
   RANGE,OFF,HI

2  HI GAIN: PITCH: -75°
   YAW: -72°
   TRACK MODE - SLEW (Wait 30 sec)
   PITCH (From MSFN) _______ (+134) CCW
   YAW (From MSFN) _______ (+6) CCW
   ANTENNA S-BAND - SLEW

3  Verify Signal Strength > 3.0
   TRACK MODE - AUTO
   UPLINK SQUELCH - OFF
   RANGE - CHEA ENABLE

4  S-BAND CHECK WITH MSFN
   BIOMED SW - RIGHT

DATE  6/14/71
98:40

*MSFN UPLINK*

1 UPDATE LINK - DATA
MSFN P-27 Updates LS REFSMMAT, LM
STATE VECTOR AND V66, AND LGC ABORT
CONSTANTS
UPDATE LINK - OFF

98:42

LANDING GEAR DEPLOY

1 CB(11) ED: LDG GEAR FLAG - Close
   : LOGIC POWER A - Open
   MASTER ARM-ON (SYS B Lt-On)
   LDG GEAR DEPLOY-FIRE, tb - gray
   CB(11) ED: LOGIC POWER A - Close
   (SYS A Lt - Off)
   LDG GEAR DEPLOY - FIRE
   MASTER ARM - OFF (SYS A&B Lts - OFF)
   CB(11) ED: LDG GEAR FLAG - Open

98:42

SUITE FAN/H2O SEP CHECK

1 CB(16) ECS: SUIT FAN 2 - Open
   (Master Alarm, SUIT/FAN Warning
   SUIT FAN Comp Lts - On)

2 CB(11) ECS: SUIT FAN 1 - Close
   H2O SEP SEL - PUSH SEP 1

3 SUIT FAN - 1 (SUITE/FAN Warning, SUIT
   FAN Comp Lts - Off
   CB(16) ECS: SUIT FAN 2 - Close
GLYCOL PUMP CHECK

1  CB(11) ECS : GLYCOL PUMP 1 - Open
   (Master Alarm, ECS Caution & Glycol
   Comp Lts - On Momentarily)
   CB(11) ECS: GLYCOL PUMP 1 - Close
   (GLYCOL Comp Lt-On)

2  GLYCOL - INST (SEC) (8 psia)
   CB(16) ECS: GLYCOL PUMP SEC - Close
   (10-20 psi Rise)
   : GLYCOL PUMP SEC - Open
   (Press Decrease)

3  GLYCOL - PUMP 2 (21-37 psi)
   (GLYCOL Comp Lt - On Then Off)
   CB(11) ECS: GLYCOL PUMP AUTO
   TRNFR-Open
   GLYCOL - PUMP 1 (21-37 psi)

DATE  4/5/71
DOCKED IMU COARSE ALIGN

1. Verify CSM In Min DEADBAND ATT HOLD
2. Calculate LM Gimbal Angles

<table>
<thead>
<tr>
<th>OG</th>
<th>IG</th>
<th>MG</th>
</tr>
</thead>
<tbody>
<tr>
<td>300.00</td>
<td>180.00</td>
<td>360.00</td>
</tr>
</tbody>
</table>

Rc (1-1) + ___

CM

\[
\begin{array}{ccc}
000.00 & 105.50 & 359.90 \\
\end{array}
\]

3. V41 N2OE COARSE ALIGN IMU
   F 21 22 LOAD ICDU ANGLE OG,IG, MG (.01°)
   (NO ATT LT - ON, FDAI Torques)
   FDAI ANGLES 000,286,060

4. V40 N2OE ZERO CDU (NO ATT ?? ???)
V25 NO7E  
F 21 07 SET REFSMFLG  
77E,10000E,1E, VOL NO1E,77E Confirm 
Bit 13 Is Set (Set If 1st Digit Is 1,3,5, or 7)

V37E 51E PRO
V37E 00E

BAT 5 BACKUP CDR FEED - ON; tb - gray
BAT 6 BACKUP LMP FEED - ON; tb - gray
BAT 5 NORMAL LMP FEED-OFF/RESET; tb-b/p
BAT 6 NORMAL CDR FEED-OFF/RESET; tb-b/p
POWER/TEMP MON SEL - LMP BUS, CDR BUS

LMP BAT 1 HI V - ON; tb - gray
(VERIFY BAT 1 CURRENT)
LMP BAT 2 - ON; tb - gray
(VERIFY BAT 2 CURRENT)
CDR BAT 3 - ON; tb - gray
(VERIFY BAT 3 CURRENT)
CDR BAT 4 HI V - ON; tb - gray
(VERIFY BAT 4 CURRENT)
BAT 5 BACKUP CDR FEED-OFF/RESET; tb-b/p
BAT 6 BACKUP LMP FEED-OFF/RESET; tb-b/p

CB (16) EPS: ASC ECA CONT - OPEN

RECORD & REPORT ED BAT VOLTAGE TO MSFN

BAT A

BAT B

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2-19

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98:59

P52 ALIGN

CB(11) AC BUS B: AOT LAMP - Close
V37E 52E
F 04 06 R2 00003
PRO

2  F 50 25 R1 00015
    V32E

3  F 01 70 R1 00XXX (Load Star Code 343)
    PRO

3  F 01 70 R1 00XXX (Load Star Code 137)
    PRO

4  F 06 79 CUR/Spir (.01°), PRO

5  F 01 71 R1 00XXX (Verify Detent)
    PRO

6  F52/3 71 MARK, Load Cur/Spir, PRO
    PRO, To 3 For 2nd Star (RECORD GET)

7  F 06 05 STAR Angle Difference (.01°)
    PRO
8  F 06 93 XYZ Torquing Angles (.001°)
PRO (Gyro Torquing)

9  F 50 25 R1 00014
ENTR
O0E
AOT-CL, ANGLE - 0000 (PUSHED IN)

10 CB(11) AC BUS B: AOT Lamp - Open
Notify CSM Min Deadband No Longer Required

99:09

RCS PRESSURIZATION

1  RECYCLE: SYS A&B ASC FEED 2(2) - CLOSE
    SYS A&B ASC FEED 1(2) - OPEN
    SYS A&B ASC FUEL & ASC OXID - tb (4) Remain - bp

RECYCLE: CRSFD-CLOSE
    MAIN SOV SYS A&B - OPEN
    HTR CONT TEMP MON - Check RCS QUADS (>120°)

2  TEMP/PRESS MON - He (2820-3280 psia)
    PRPLNT (40°-100°/10-50 psi)
    FUEL MANF (25-90 psi)
    OXID MANF (25-90 psi)

RCS QUANTITY A&B ~ 100%

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2-21

3  CB(16) LOGIC PWR B - Open
    MASTER ARM - ON (SYS A Lt - ON)
    HE PRESS RCS - FIRE
    (RCS A&B REG Warning Lts - Off)
    MASTER ARM-OFF (SYS A Lt - OFF)

4  RECYCLE: SYS A&B ASC FEED 2(2) - CLOSE
    : SYS A&B ASC FEED 1(2) - OPEN
    : CRSFD - CLOSE
    : SYS A&B MAIN SOV-OPEN
    CB(16) LOGIC PWR B - CLOSE

5  TEMP/PRESS MON - OXID MANF (175-188 psi)
    - FUEL MANF (175-188 psi)
    - PRPLNT (40°-100°/178-188 psi)
    - He (2750-3200 psi)

******************************************************************************
UD - 1:00 (99:14)  **************************************************************************
*RCS CHECKOUT*

1. **GUID CONT - PGNS**
   ATT/TRANS - 4 JET
   ATT CONT (3) - PULSE
   MODE CONT (Both) - ATT HOLD (PGNS SW Guard - 6 O’Clock)
   (NO DAP Lt - OFF)
   ACA/4 JET (CDR) - DISABLE
   TTCA (BOTH) - JETS

Verify HBR With MSFN & CSM In
Wide Deadband & Attitude Hold
QUAD Flags - Red & RCS TCA Lt - on will
occur during cold fire checks

2. **TTCA (Cold Fire) Check**

V76E (NO DAP Lt - ON)
V11N10E, 5E
CDR TTCA

**UP**
(+X) - R1 00252 (4 Flags)

**DN**
(-X) - 00125 (4 Flags)

Repeat For LMP
E, 6E

**RIGHT**
(+Y) - R1 00220

**LEFT**
(-Y) - 00140

**FWD**
(+Z) - 00011

**AFT**
(-Z) - 00006

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3  PGNS RATE CMD (Cold Fire), AGS PULSE (Cold Fire) Check
   CB(11) ATT DTR CONT - CLOSE
   V77E (NO DAP Lt - OFF)
   V15 NO1E, 42E

   CDR ACA (To Soft Stop, Pause 2 sec At Null)
   ROLL RIGHT R3 00045-00057
   ROLL LEFT 77720-77732
   PITCH UP R1 00045-00057
   PITCH DN 77720-77732
   YAW RIGHT R2 77720-77732
   YAW LEFT 00045-00057

4  AGS RATE CMD (Cold Fire), 4 JET SEC
   COIL (Hot Fire) Check
   Verify CMC MODE - FREE
   GUIO CONT - AGS
   ATT CONT (3) - MODE CONT
   ACA/4 JET (CDR) - ENABLE
   CDR ACA (Deflect Slowly To Hardover, Pause 2 sec At Null)
   ROLL - RIGHT
   ROLL - LEFT
   PITCH - UP
   PITCH - DN
   YAW - RIGHT
   YAW - LEFT
5 PGNS MIN IMP (Hot Fire) Check
GUID CONT - PGNS
V76E (NO DAP Lt-ON)

CB(11) RCS SYS A: QUAD TCA (4) - Close
CB(16) RCS SYS B: QUAD TCA (4) - Close
CB(16) INST: CWEA - Open Then Close
(RCS TCA Lt - OFF
QUAD FLAGS (8) - Gray)

V11N10E, 31E R1 67777
CDR ACA (Out Of Detent (2 1/2°), Pause 2 sec At Null)
ROLL RIGHT - R1 27757
ROLL LEFT - R1 27737
YAW RIGHT (Twice) - R1 27767
YAW LEFT (Twice) - R1 27773

V48E, V21E, 31022E, PRO, V34E
V11N10E, 31E
CDR ACA (Out of Detent (2 1/2°), Pause 2 sec At Null)
PITCH UP - R1 27776
PITCH DN - R1 27775

Notify CSM Hot Fire Checks Complete
CSM - WIDE Deadband ATT/Hold

6 V37E 00E

DATE 4/5/71
RNDZ RDR SELF TEST

1. CB(11) RR(2) - Close (NO TRACK Lt-On)
   Verify: CSM RCS Thruster B3 - Off
   : Radar Xponder - Off
   RNDZ RDR ANT - Pull Pin & Release
   X-POINTERS (Both) - HI MUL
   RATE/ERR MON (Both) - RNDZ RADAR
   ATTITUDE MON (Both) - PGNS
   MODE SEL - LDG RDR

2. RNG/ALT MON - RNG/RNG RATE
   S/NF/STRUN - +50°
   RR MODE - SLEW
   TEMP MONITOR - RNDZ (+10° To +50°)
   RR GYRO SEL-SEC
   CB(11) AC BUS A: RNG/RNG RT/ALT/ALT
   RT - Close
   FLIGHT DISPLAYS: RNG/RNG RT/ALT/ALT RT-
   Close

DROGUE AND PROBE INSTALLATION

1. Verify:
   Both Electrical Umbilicals Removed
   Drogue Lock Lever Engaged & Flush
   Three Capture Latches Engaged & Locked
   LM Hatch Exterior Insulation O.K.
   Flaps Secured Around Handles

2. Close & Secure Hatch
   CABIN DUMP (OVHD) - AUTO & LOCKED
   PRESS REG A&B - CABIN
   Secure LEVA Bags On Engine Cover
3 SLEW RATE-HI
Slew Left To Mode I Region (+Z) (18 sec)
Slew Right, Down, Left, Up
  (FDAL Needles Right, Down, Left, Up)
SLEW RATE - LO
SHIFT/TRUN - +5°
Slew Right, Down, Left, Up
  (FDAL Needles Right, Down, Left, Up,
   1°/sec: X-Pointer-3 mr/sec)

4 RR MODE - AUTO TRACK
RADAR TEST - RNDZ (Rng Rt Tape Drives
To -478 to -518 fps, X-Pointers Oscillate
and FDAL Needles Vary Between ±5°.
After 12 sec Rng Tape Drives to
194 to 197NM, NO TRACK & PWR FAIL Lts-Off)

TEST MONITOR - AGC (1.4 To 1.9)
  - XMTR (3.3 To 3.8)
  - SHAFT ERR (2.2 To 2.6 @1/2cps)
  - TRUN ERR (2.2 To 2.6 @1/2 cps)
  - AGC

DATE 6/14/71
6 Set NORRMON Flag
V25 NO7E
101E, 10E, 1E
RR MODE - LGC (NO TRACK Lt - On)

Wait 10 sec

7 V63E Start RR Self Test
F 04 12
R1 00004 Specify Radar
R2 00001 Rndz Radar
PRO

TRACKER & NO TRACK Lt-On (Off After 12 sec)

8 F 16 72 TRUN, SHAFT (.01°)
R1 Varying At 1/2 cps
R2 Varying At 1/2 cps
PRO

9 F 16 78 RANGE, RANGE RATE, TFI (.01nm,
   .1fps, min-sec)
R1 +195.29 To +195.69 (TM Within +1.2
   of R1)
R2 -0480.0 To -0520.0 (TM=R2-2)

10 V34E (PWR FAIL & NO TRACK Lt-On,
   X-PNTR-Center)
11  RADAR TEST - OFF

12  V40 N72E RR CDU ZERO (10 sec)
    SHFT/TRUN - +50°

13  V41 N72E (+04000, +04000)
    F 04 12
    PRO
    V16N72E

14  SHFT/TRUN - +5°
    RR GYRO SEL - PRIM
    V41 N72E (+35600, +35600)
    F 04 12
    PRO
    V16N72E

V41 N72E (+00000, +28300)
F 04 12
PRO
V16N72E
CB(11) RR(2) - Open
(NO TRACK Lt-Off)

V44E
RR MODE - SLEW
Notify CSM That Thruster B3-Off, And
Radar Xponder-Off Are No Longer Required

DATE  4/5/71
GO/NO GO FOR UNDOCKING

1. Match Indicated Angles
   TRACK MODE - SLEW
   S-BD ANT-AFT
   Set P ______ (+41)
   Y ______ (-55)

   VHF B XMT - DATA
   BIOMED-OFF, PCM-LO
   UPLINK SQUELCH - ENABLE
   RANGE - RANGE

LOS (99:29)

99:33
Reconfigure O2 Hoses (R/R & B/B)
Verify Cap Off PGA Relief VLV
Don Helmet & Gloves

99:33
Reconfigure O2 Hoses (R/R & B/B)
Verify Cap Off PGA Relief VLV
Don Helmet & Gloves

UD -:30 (99:44)

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7 SUIT CIRCUIT RELIEF - AUTO
CABIN GAS RETURN - AUTO
PRESS REG A - CABIN
SUIT GAS DIVERTER - PUSH/CABIN
  (CABIN PRESS WILL RISE TO 4.6-5.0 psia IN
  APPROXIMATELY 5 MIN.)
CB(16) ECS: CABIN REPRESS - CLOSE

99:55

RATE GYRO CHECK

1 Verify CSM Holding Attitude
   GYRO TEST - POS RT (RPY RATE +5°/sec)
   GYRO TEST - NEG RT (YPR RATE -5°/sec)

2 RATE SCALE -5°/SEC
   REPEAT Tests

3 Notify CSM ATT/Hold No Longer Required
PREP FOR UNDOCKING

1 S-BD-PM, SEC, PRIM, VOICE,
   PCM, RANGE
   VHF-VOICE, ON, DATA, ON, OFF, LO
   AUDIO (Both): VHF A-T/R
   : VHF B-RCV

2 MISSION TIMER-SET
   EVENT TIMER-SET, Count DN to 100:13:56 (Undocking)
   OVHD HATCH-LOCKED
   OVHD CABIN RELIEF & DUMP - AUTO
   PRESS REG A&B - CABIN

3 RATE ERR MON (CDR) - LDG RDR/CMPTR
   ATTITUDE MON (CDR) - PGNS
   GUID CONT - PGNS
   MODE SEL - LDG RADAR
   RNG/ALT MON - RNG/RNG RT
   RATE SCALE - 5°/SEC
   ATT/TRANSL - 4 JET
   BAL CPL - ON
   RATE ERR MON (LMP) - LDG RDR/CMPTR

DATE 4/5/71
DATE __6/14/71__

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ATTITUDE MON (LMP) - PGNS
RR MODE - SLEW
DEADBAND - MIN
ATTITUDE CONTROL (3) MODE CONT
MODE CONT (Both) - ATT HOLD
TTCA (Both) - JET

4 Mount Camera On Window Bar
   LM 3 /DAC/10/CEX (AA) - ULC
   (T8,250,ω) 6 fps, .06 Mag (1 min)
   LM /DC/60/ICEX (KK)
   (f11,250,focus) 10 Pictures
Mount TIMELINE Book

5 Configure CB Panels Per UNDOCKING Chart
And Then Go To LM TIMELINE BOOK