

JUGAT

"INTEGRATED"

CSM ENTRY PROCEDURES

- STARTS WITH THE BASELINE SW & CB CONFIGURATION
- INTEGRATES "NEW" PROCEDURES & CHECKLIST PROCEDURES WITH REVISIONS
- INCLUDES SM PHOTO & STOWAGE PROCEDURES
- SHOULD REFLECT WHAT WAS READ UP TO THE CREW ~ GET 127

O'Neil FCSD

Master

4/17/70
12:00

Front

Color _____

CSM BASELINE (BL) CONFIGURATION

BL-1

PANEL 1

EMS FUNC - OFF
 EMS MODE - STBY
 GTA - off (down)
 EMS GTA COVER - Secure
 CMC ATT - IMU
 FDAI SCALE - 5/5
 FDAI SEL - 1
 FDAI SOURCE - GDC
 ATT SET - GDC
 MAN ATT ROLL - RATE CMD
 MAN ATT PITCH - RATE CMD
 MAN ATT YAW - RATE CMD
 LIM CYCLE - OFF
 ATT DBD - MIN
 RATE - HIGH
 TRANS CONTR PWR - OFF
 RHC PWR NORM (2) - OFF
 RHC PWR DIR (2) - OFF
 SC CONT - SCS
 CMC MODE - FREE
 BMAG MODE ROLL - RATE 2
 BMAG MODE PITCH - RATE 2
 BMAG MODE YAW - RATE 2
 SPS THRUST - NORMAL (lock)
 ΔV THRUST (2) - OFF (guarded)
 SCS TVC PITCH - AUTO
 SCS TVC YAW - AUTO
 SPS GMBL MOT PITCH (2) - OFF
 SPS GMBL MOT YAW (2) - OFF
 ΔV CG - LM/CSM
 ELS LOGIC - OFF (guarded)
 ELS AUTO - MAN
 CM RCS LOGIC - OFF (down)
 CM PRPLNT DUMP - OFF (guarded)
 CM PRPLNT PURG - off (down) (guarded)
 IMU CAGE - off (down) guarded)
 EMS ROLL - OFF
 .05G sw - OFF

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Back

Color _____

*Do NOT read
To crew*

BL-2

a/Pc IND sw - Pc
LV/SPS IND SII/SIVB - GPI
TVC GMBL DR PITCH - AUTO
TVC GMBL DR YAW - AUTO
EVNT TMR RSET - up (center)
EVNT TMR STRT - stop
EVNT TMR MIN - center
EVNT TMR SEC - center

PANEL 2

PL VENT vlv - push (lock)
PROBE EXTD/REL - OFF (guarded)
PROBE EXTD/RETR (2) tb - gray
DOCK PROBE RETR PRIM - OFF
DOCK PROBE RETR SEC - OFF
EXT RUN/EVA LT - OFF
EXT RNDZ LT - off (center)
TUNL LT - OFF
LM PWR - OFF
SM RCS He 1 (4) - center (on,up*)
SM RCS He 1 tb (4) - gray
UP TLM CM - BLOCK
UP TLM IU - BLOCK
CM RCS PRESS - off (down) (guarded)
SM RCS IND sw - PRPLNT QTY
SM RCS He 2 (4) - center (on,up*)
SM RCS He 2 (4) tb - gray
SM RCS HTRS (4) - OFF
SM RCS PRPLNT (4) - center (on,up*)
SM RCS PRPLNT tb (4) - gray
SM RCS PRPLNT tb (4) - bp
RCS CMD - center (OFF*)
RCS TRNFR - center (SM*)
CM RCS PRPLNT (2) - center (on,up*)
CM RCS PRPLNT tb (2) - gray
SM RCS SEC FUEL PRESS (4) - center (CLOSE*)
EDS AUTO - OFF
CSM/LM FINAL SEP (2) - off (down) (guarded)
CM/SM SEP (2) - off (down) (guarded)
SIVB/LM SEP - off (down) (guarded)
PRPLNT DUMP - RCS CMD
2 ENG OUT - OFF
LV RATES - OFF

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To Crew*

BL-3

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TWR JETT (2) - OFF (down) (guarded)
 LV GUID - IU
 LV STAGE - off (down) (guarded)
 XLUNAR - INJECT
 MN REL - off (down) (guarded)
 MSN TMR HR - off (center)
 MSN TMR MIN - off (center)
 MSN TMR SEC - off (center)
 C/W NORM - ACK
 C/W CSM - CM
 C/W PWR - OFF
 C/W LAMP TEST - off (center)
 MSN TMR - START
 RCS IND sel - SM D
 CAB FAN (2) - OFF
 H2 HTRS (2) - OFF
 O2 HTRS (2) - OFF
 O2 PRES IND sw - SURGE TK
 H2 FANS (2) - OFF
 O2 FANS (2) - OFF
 ECS IND sel - PRIM
 ECS RAD FLOW AUTO CONT - AUTO
 ECS RAD tb - gray
 ECS RAD FLOW PWR CONT - off (center)
 ECS RAD MAN SEL - RAD 1
 ECS RAD PRIM HTR - off (center)
 ECS RAD SEC HTR - OFF
 POT H2O HTR - OFF
 SUIT CKT H2O ACCUM AUTO - 1
 SUIT CKT H2O ACCUM - off (center)
 SUIT CKT HT EXCH - off (center)
 SEC COOL LOOP EVAP - off (center)
 SEC COOL LOOP PUMP - off (center)
 H2O QTY IND sw - POT
 GLY EVAP IN TEMP - MAN
 GLY EVAP STM PRESS AUTO - MAN
 GLY EVAP STM PRESS INCR - center
 GLY EVAP H2O FLOW - off (center)
 CAB TEMP - MAN
 CAB AUTO TEMP tw - max decr
 HI GAIN ANT TRACK - AUTO
 HI GAIN ANT BEAM - WIDE
 HI GAIN ANT PITCH POS - 0°

*Do not need
to crew*

BL-4

HI GAIN ANT YAW POS - 180°
HI GAIN ANT PWR - OFF
HI GAIN ANT SERVO ELECT - PRIM

PANEL 3

VHF ANT - SM LEFT
SPS ENG INJ VLV ind (4) - CLOSE
FC RAD (3) - center (NORMAL*)
FC RAD (3) tb - N/A
FC HTRS (3) - OFF
FC IND sel - 2
SPS QTY TEST - off (center)
OXID FLOW VLV INCR - INCR
OXID FLOW VLV PRIM - PRIM
PUG MODE - NORM
FC PURG (3) - OFF
FC REAC (3) - center
FC REAC tb (3) - gray
FC 1 MN BUS A - OFF
FC 1 MN BUS A tb - gray
FC 2 MN BUS A - OFF
FC 2 MN BUS A tb - gray
FC 3 MN BUS A - OFF
FC 3 MN BUS A tb - gray
MN BUS A RSET - OFF
FC 1 MN BUS B - OFF
FC 1 MN BUS B tb - gray
FC 2 MN BUS B - OFF
FC 2 MN BUS B tb - gray
FC 3 MN BUS B - OFF
FC 3 MN BUS B tb - gray
MN BUS B RSET - OFF
DC IND sel - MNA
BAT CHARGE - OFF
SPS He vlv (2) - AUTO
SPS He vlv tb (2) - bp
SPS LINE HTRS - off (center)
SPS PRESS IND sw - He
S BD XPNDR - center (OFF)
S BD PWR AMPL PRIM - PRIM
S BD PWR AMPL HI - center (OFF)
PWR AMPL tb - bp

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*Do not need
A/C*

BL-5

S BD MODE VOICE - VOICE
 S BD MODE PCM - PCM
 S BD MODE RNG - RNG
 S BD AUX TAPE - off (center)
 S BD AUX TV - off (center)
 UP TLM DATA - DATA
 UP TLM CMD - OFF
 S BD ANT OMNI - B
 S BD ANT - OMNI
 VHF AM A - (center)
 VHF AM B - center
 VHF AM RCV - off (center)
 VHF AM SQLCH tw (2) - noise threshold +1 div
 VHF BCN - OFF
 VHF RNG - OFF
 S BD SQUELCH - OFF
 FC REACS vlv - NORMAL
 H2 PURG LINE HTR - OFF
 TAPE RCDR PCM - PCM/ANLG
 TAPE RECDR RCD - RCD
 TAPE RECDR FWD - CENTER
 TAPE MOTION tb - bp
 SCE PWR - CENTER
 PMP PWR - CENTER
 PCM BIT RATE - HI
 AC INV 1 - OFF
 AC INV 2 - OFF
 AC INV 3 - OFF
 INV 1 AC 1 - OFF
 INV 2 AC 1 - OFF
 INV 3 AC 1 - OFF
 AC 1 RSET - OFF
 INV 1 AC 2 - OFF
 INV 2 AC 2 - OFF
 INV 3 AC 2 - OFF
 AC BUS 2 RSET - OFF
 AC IND sel - BUS 20C

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PANEL 4

SPS GAUGING - OFF
 TELCOM GRP 1 - OFF
 TEL COM GRP 2 - OFF
 GLY PUMPS - OFF

BL-6

*Do NOT send
To crew*

SUIT COMPR (BOTH) - OFF
cb Panel 4 - all closed

PANEL 5

FC1 PUMPS - OFF
FC2 PUMPS - OFF
FC3 PUMPS - OFF
G/N PWR - OFF
MN BUS TIE BAT A/C - OFF
MN BUS TIE BAT B/C - OFF
BAT CHGR - AC1
NONESS BUS - OFF
INT INTGL LT - OFF
INT FLOOD LT - OFF
INT FLOOD LT DIM - 1
INT FLOOD LT FIXED - OFF
cb Panel 5 all open

PANEL 6

Basic Date _____
Changed _____

MODE - INTERCOM/PTT
PWR - OFF
INTERCOM - T/R
PAD COMM - OFF
S BD - T/R
VHF AM - T/R
AUDIO CONT - NORM
SUIT PWR - OFF
tw settings - as desired

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PANEL 7

EDS PWR - OFF
SCS TVC SERVO PWR #1 - OFF
SCS TVC SERVO PWR #2 - OFF
FDAI/GPI PWR - OFF
LOGIC 2/3 PWR - OFF

*Do NOT read
To crew*

BL-7

SCS ELEC PWR - OFF
SCS SIG CONDR/DR BIAS 1 - OFF
SCS SIG CONDR/DR BIAS 2 - OFF
BMAG PWR(BOTH) - OFF
DIRECT O2 vlv - CLOSE

PANEL 8

cb Panel 8 - all closed except:
cb SCS LOGIC BUS (4) - OPEN
cb SPS PITCH, YAW (4) - open
cb SPS GAUGING (4) - open
cb SECS ARM (2) - open
cb EDS (3) - open
cb ELS BAT A BAT B (2) - open
cb PL VENT FLT/PL - open
cb SCS DIRECT ULL (2) - open
cb SM RCS HTR A MN B - open
cb SM RCS HTR C MN B - open
cb SM RCS HTR B MN A - open
cb SM RCS HTR D MNA - open
cb CM RCS HTRS (2) - open
cb FLOAT BAG (3) - open

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AUTO RCS SEL A/C ROLL A1 - OFF
AUTO RCS SEL A/C ROLL C1 - OFF
AUTO RCS SEL A/C ROLL A2 - OFF
AUTO RCS SEL A/C ROLL C2 - OFF
AUTO RCS SEL B/D ROLL B1 - OFF
AUTO RCS SEL B/D ROLL D1 - OFF
AUTO RCS SEL B/D ROLL B2 - OFF
AUTO RCS SEL B/D ROLL D2 - OFF
AUTO RCS SEL PITCH A3 - OFF
AUTO RCS SEL PITCH C3 - OFF
AUTO RCS SEL PITCH A4 - OFF
AUTO RCS SEL PITCH C4 - OFF
AUTO RCS SEL YAW B3 - OFF
AUTO RCS SEL YAW D3 - OFF
AUTO RCS SEL YAW B4 - OFF
AUTO RCS SEL YAW D4 - OFF
INT NUM LT - OFF
INT INTGL LT - OFF
INT FLOOD LT - OFF
FLOOD LTS DIM - 1
FLOOD LTS FIXED - OFF
FLOAT BAG (3) - VENT (locked)
SECS LOGIC (2) - OFF (down)
SECS PYRO ARM (2) - OFF (down)

Basic Date _____
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*DO NOT
TO crew*

BL-8

PANEL 9

MODE - INTERCOM /PTT
PWR - OFF
INTERCOM - T/R
PADD COMM - OFF
S BD - T/R
VHF AM - T/R
AUDIO CONT - NORM
SUIT PWR - OFF
VHF RNG - NORM
tw settings - as desired

PANEL 10

MODE - INTERCOM/PTT
PWR - OFF
PAD COMM - OFF
INTERCOM - T/R
S BD - T/R
VHF AM - T/R
AUDIO CONT - NORM
SUIT PWR - OFF
tw settings - as desired

Basic Date _____
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PANEL 12

LM TUNL VENT vlv - LM/CM AP

PANEL 13

FDAI sw (2) - INRTL
EARTH/LUNAR - PWR OFF
ALT SET - 100
LTG - OFF
MODE - HOLD/FAST
SLEW - off (center)

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PANEL 15

COAS PWR - OFF
UTIL PWR - OFF
PL BCN LT - off (center)
PL DYE MARKER - off (down) (guarded)
PL VENT - OFF

PANEL 16

DOCK TRGT - OFF
UTIL PWR - OFF
COAS PWR - OFF

BL-9

PANEL 100

UTIL PWR - OFF
FLOOD LTS DIM - 1
FLOOD LTS FIXED - OFF
OPT PWR - OFF
IMU PWR - OFF
RNDZ XPNDR - OFF
NUMERICS LT - OFF
FLOOD LTS - OFF
INTGL LT - OFF

PANEL 101

SYS TEST (LH) - 4
SYS TEST (RH) - B
CM RCS HTRS - OFF
UR DUMP - OFF
WASTE H2O DUMP - OFF
RNDZ XPNDR - OPR

PANEL 122

OPT ZERO - ZERO
OPT TELTRUN - SLAVE TO SXT
OPT COUPLING - DIRECT
OPT MODE - MAN
OPT SPEED - LO
COND LAMPS - OFF
UP TLM - ACCEPT

PANEL 162

SCI PWR - OFF

PANEL 163

SCI/UTIL PWR - OFF

PANEL 201

FOOD WARMER - OFF

PANEL 225

cb Panel 225 - all closed except:
cb HI GAIN ANT FLT BUS - open
cb HI GAIN ANT GRP 2 - open

*Do not need
To crew*

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BL-10

- cb S BAND FM XMITTER DATA STOWAGE EQUIP GROUP 1 - open
- cb S-BAND FM XMITTER DATA STOWAGE EQUIP FLT BUS - open
- cb FLT BUS MNA & MNB (BOTH) - open
- cb CTE (BOTH) - open
- cb RNDZ XPNDR FLT BUS - open

PANEL 226

- cb Panel 226 - all open except:
 - cb LIGHTING FLOOD MAN, MNB & FLT/PL - closed
 - cb LIGHTING NUMERICS/INTEGRAL LEB-AC2, LMDC-AC1 & RMCS-AC1 - closed

PANEL 227

SCI PWR - OFF

PANEL 229

- cb Panel 229 all closed except:
 - cb MAIN REL PYRO (2) - open
 - cb O2 VAC ION PUMPS (2) - open
 - cb TIMERS MNA & MNB (2) - open

PANEL 250

- cb Panel 250 - all open except:
 - cb SEQ A - closed
 - cb SEQ B - closed

PANEL 251

WASTE MGMT OVBD DRAIN vlv - OFF

PANEL 252

BAT VENT vlv - CLOSED
 WASTE STOWAGE VENT vlv - closed

PANEL 275

cb Panel 275 - all open

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Changed _____

Do not read to crew

BL-11

PANEL 276

cb Panel 276 - all closed

PANEL 278

cb Panel 278 - all open

PANEL 300

LH SUIT FLOW vlv - FULL FLOW

PANEL 301

RH SUIT FLOW vlv - FULL FLOW

PANEL 302

CTR SUIT FLOW vlv - FULL FLOW

PANEL 303

PRIM CAB TEMP vlv - COLD (CW)
SEC CAB TEMP vlv - COOL-MAX (CW)

PANEL 304

DRNK H2O SUPPLY vlv - OFF (CW)

PANEL 305

FOOD PREP COLD H2O vlv - rel
FOOD PREP HOT H2O vlv - rel

PANEL 306

MSN TMR - STOP
EVNT TMR RSET - UP (center)
EVNT TMR STRT - STOP
EVNT TMR MIN - center
EVNT TMR SEC - center
MSN TMR HR - center
MSN TMR MIN - center
MSN TMR SEC - center

*Do not read
to crew*

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BL-12

PANEL 325

CAB PRESS RELF vlv (RH) - NORMAL
CAB PRESS RELF vlv (LH) - NORMAL
PRIM GLY TO RAD vlv - BYPASS (pull)

PANEL 326

REPRESS PKG vlv - OFF
SM O2 SUPPLY vlv - OFF
SURGE TK O2 vlv - OFF
GLY RSVR IN vlv - CLOSED
GLY RSVR BYPASS vlv - OPEN
GLY RSVR OUT vlv - CLOSED

PANEL 350

CO2 CSTR DIVERT vlv - both (center)

PANEL 351

MAIN REG vlv (2) - CLOSED
H2O/GLY TK PRESS REG vlv - OFF
H2O/GLY TK PRESS RELF vlv - OFF
EMER CAB PRESS vlv - OFF
CAB REPRESS vlv - OFF (CCW)

PANEL 352

WASTE TK SERVICING vlv - CLOSE
PRESS RELF vlv - 2
POT TK IN vlv - OPEN
WASTE TK IN vlv - AUTO

PANEL 375

SURGE TK PRESS RELF vlv - open (CW)

PANEL 376

PLVC - NORMAL (up)

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Basic Date _____
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*Do not need
To crew*

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BL-13

Do not run to crew

PANEL 377

GLY TO RAD SEC vlv - BYPASS (CCW)

PANEL 378

PRIM GLY ACCUM vlv - open (CCW)

PANEL 379

PRIM ACCUM FILL vlv - OFF (CW)

PANEL 380

O2 DEMAND REG vlv - OFF
SUIT TEST vlv - OFF
SUIT CKT RET vlv - OPEN (Pull)

PANEL 382

SUIT HT EXCH PRIM GLY vlv - FLOW (CCW)
SUIT FLOW RELF vlv - OFF
PRIM GLY EVAP IN TEMP vlv - MIN (CCW)
SUIT HT EXCH SEC GLY vlv - FLOW (CCW)
SEC EVAP H2O CONT vlv - OFF (CCW)
PRIM EVAP H2O CONT vlv - OFF (CCW)
H2O ACCUM vlv (2) - RMTE (CCW) CREW REPORTED WENT TO OFF

Basic Date _____
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PANEL 600

EMER O2 vlv - close

PANEL 601

REPRESS O2 vlv - close

PANEL 602

REPRESS O2 RELF vlv - OPEN (CW)

FWD HATCH

PRESS EQUAL vlv - CLOSE
ACTR HNDL sel - stow/check locked

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4/17/70

12:00

Do not need to crew

BL-14

SIDE HATCH

CAB PRESS DUMP vlv - close (CW)

GEAR BOX sel - LATCH

ACTR HANDLE sel - UNLATCH

LOCK PIN REL KNOB - LOCK

LOCK PIN ind - flush

GN2 VLV HANDLE - outboard

BPC JETT KNOB - toward BPC JETT

* - last momentary position before liftoff.

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Basic Date _____
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