

SL-3

SECOND SKYLAB MISSION

FINAL

SWS
ACTIVATION
CHECKLIST

PREPARED BY

FLIGHT PROCEDURES BRANCH
CREW PROCEDURES DIVISION

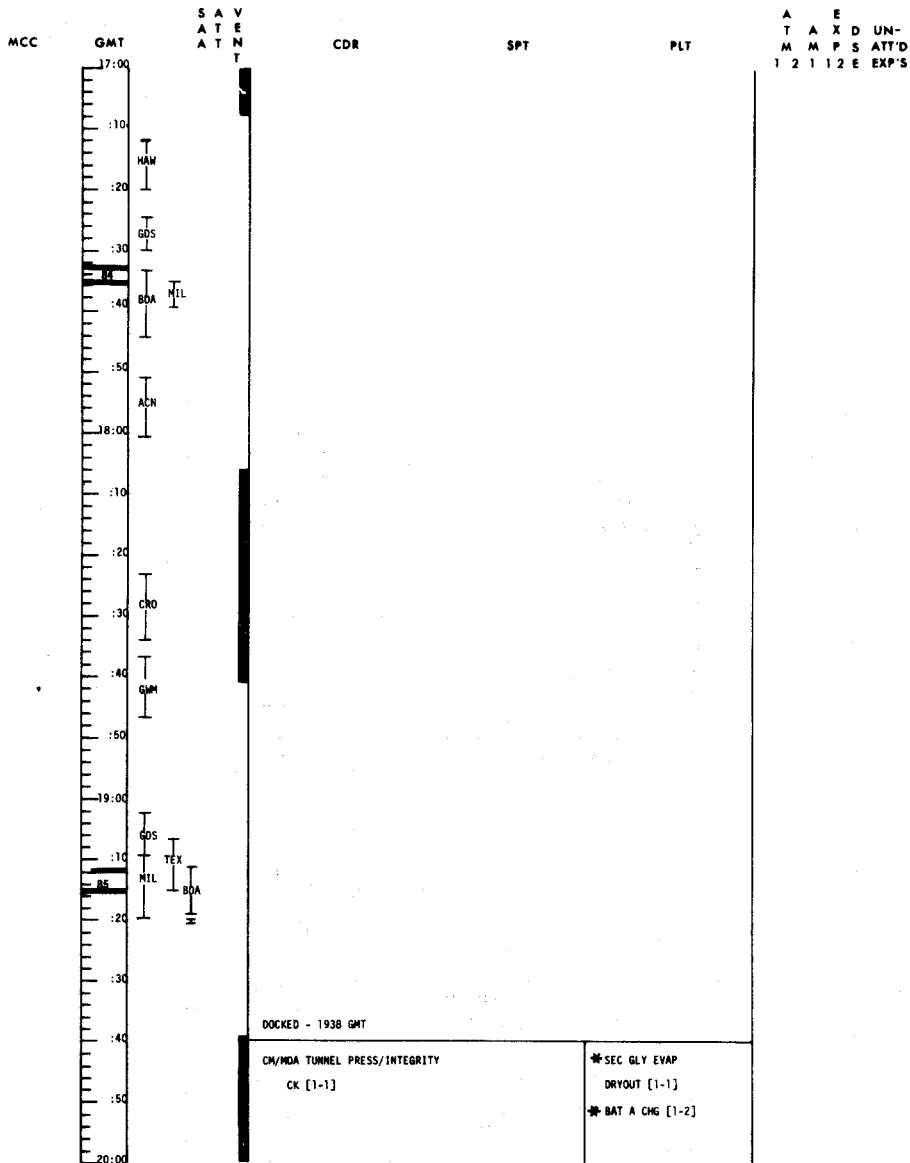


National Aeronautics and Space Administration
LYNDON B. JOHNSON SPACE CENTER
Houston, Texas

JULY 6 , 1973

FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA \pm	MOON PHASE
	17:00-20:00	1/209	JULY 28, 1973	1084	-24.1	



DATE 7/6/73

DATE _____

MISSION	EDITION	PUBLICATION DATE
SI-3	FINAL	JULY 7, 1973

FLIGHT PLANNING BRANCH

S A L	SOL A.SOL
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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA	MOON	PHASE
	20:00-23:00	1/209	JULY 28, 1973	1086	-23.9		

RCDR
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M M P S ATT'D
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MCC
UPDATE:
GO FOR MDA
HATCH OPENING
UPLINK:
EMP SL-51
LOAD

GMT	SAV ATE ATT T	CDR	SPT	PLT
20:00 :10 :20 :30 :40 :50 21:00 :10 :20 :30 :40 :50 22:00 :10 :20 :30 :40 :50 23:00	CRO GMM GDS TEX M(L) VAN GDS TEY VAN	UPLINK/UPDATE [1-2] EAT [1-2] CM TUNNEL HATCH REMOVAL [1-3] DOCKING LATCH VERIFICATION [1-4] PROBE REMOVAL [1-4] DROGUE REMOVAL [1-5]	MSN TIMER UPDATL [1-3] CSM RCS PRPLNT RECONFIG [1-3]	
		*SEC GLY DRYOUT TERM [1-6] *PRI GLY EVAP DRYOUT [1-8] CM SUIT CRT DEACT [1-8]	MDA HATCH OPENING [1-7] MDA LIGHT TURN ON [1-13]	
		DROGUE & PROBE STOWAGE [1-14]	MDA/STS ENTRY [1-15]	
		AID INSTALL [1-15]	STS C/B PANEL CONFIG [1-15]	
		*PRIM GLY DRYOUT TERM [1-20] GLY CRT RECONFIG [1-20] UPDATE [1-20]	S190A WINDOW PROT INSTALL [1-21]	STS PNL CONFIG [1-21]
		UMBILICAL CURN PREP [1-22]	S190 WINDOW	HTR ACT [1-25]
		CM O ₂ SYS CONFIG [1-24]	CSM/MDA UMBILICAL CONN [1-25]	O ₂ N ₂ ACT [1-27]
		CSM/SMS BASIC COMM CONFIG [1-28]	C&N ACT [1-29]	SOP/SOMA CONFIG [1-29]
		*SXT P52 (OPT 3) [1-32] GDC ALIGN [1-32]	AM SINGLE PT GRO DISCONNECT [1-33] STS COMM ACT/CF [1-33]	

DATE _____

UPDATE:
P52 STARS

DATE 7/6/73

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FLIGHT PLANNING BRANCH

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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA ±	MOON
	23:00-02:00	7/209	JULY 28, 1973	1088	-22.5	PHASE

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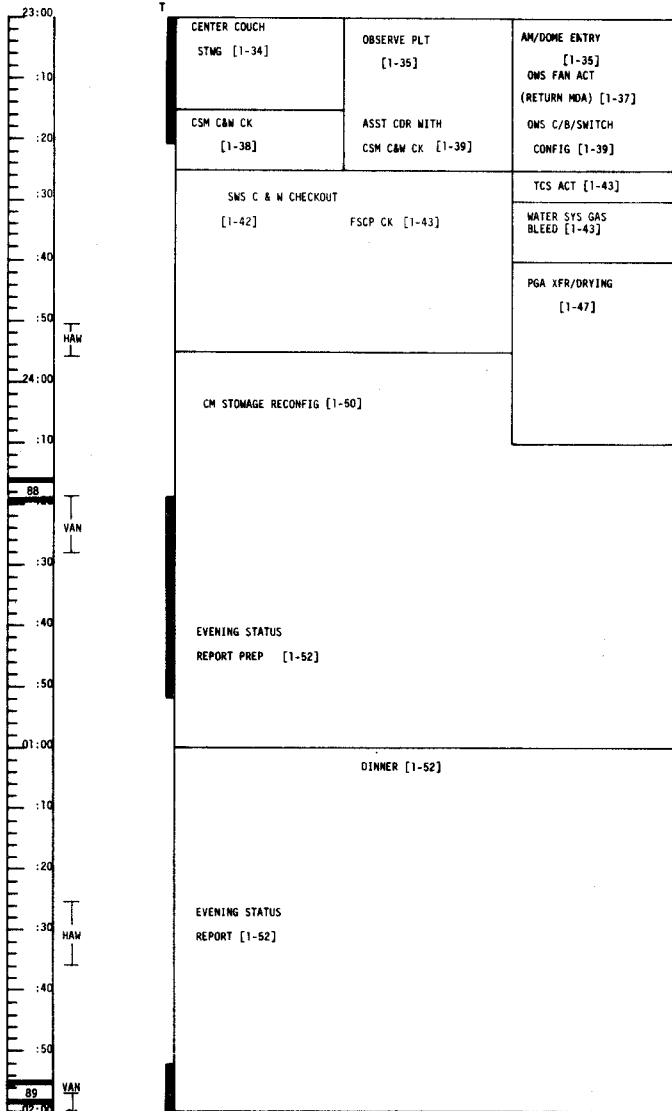
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UPLINK:
PREFLIGHT MED
STATUS PAD

DATE 7/16/73

DATE _____

MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

SOL	A-SOL

FLIGHT PLANNING BRANCH

FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA \downarrow	MOON PHASE
	02:00-05:00	1/210	JULY 28, 1973	1090	-23.2	

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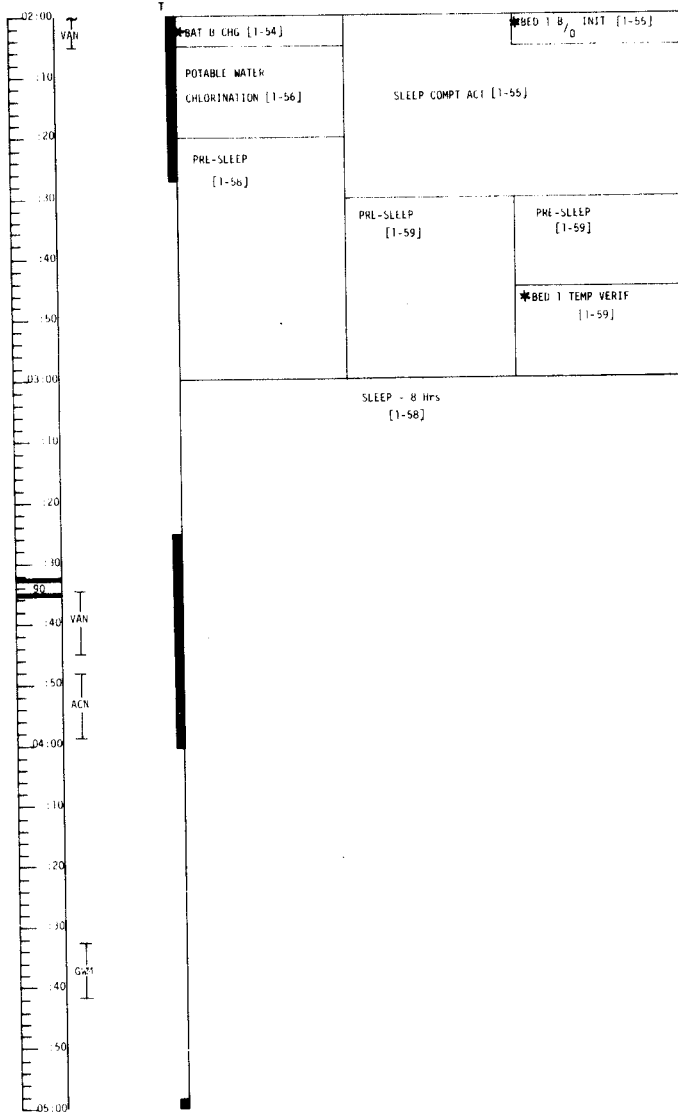
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DATE 7/6/73

MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

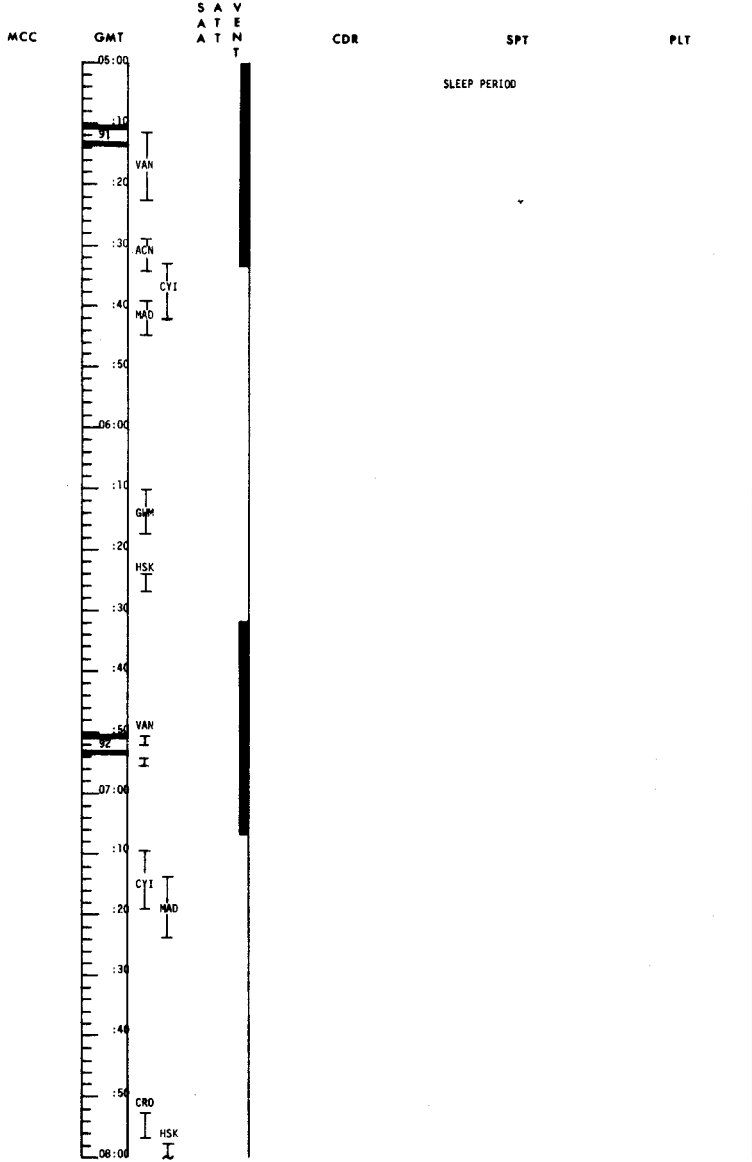
FLIGHT PLANNING BRANCH

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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA \downarrow	MOON PHASE
	05:00-08:00	2/210	JULY 29, 1973	1091	-22.9	

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DATE 7/6/73

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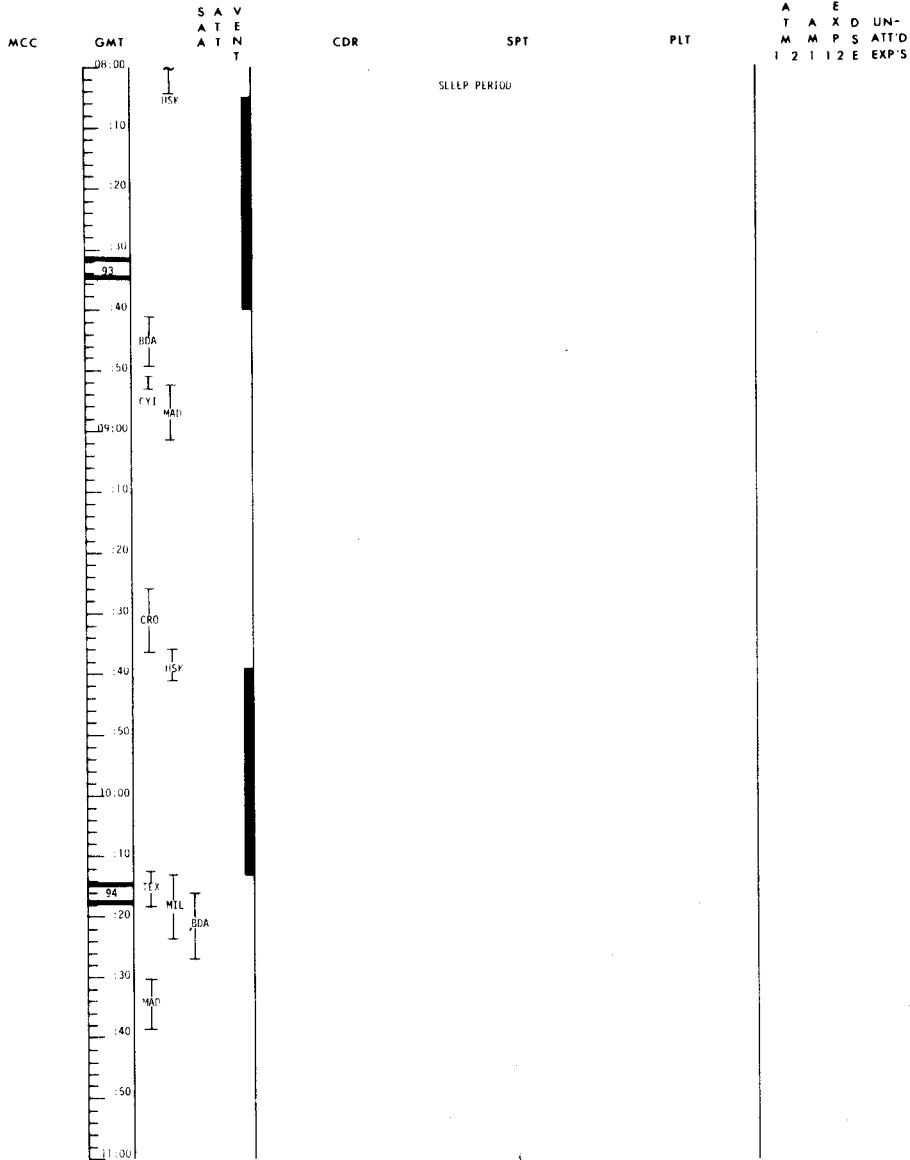
MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

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FLIGHT PLANNING BRANCH

FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA ↓	MOON PHASE
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MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

FLIGHT PLANNING BRANCH

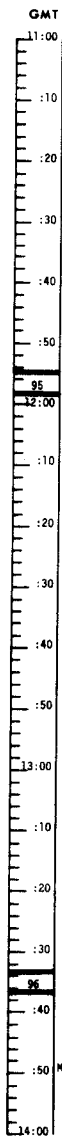
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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA ↓	MOON PHASE
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UPDATE:
ATM PNL CMD
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POST SLEEP [2-1] UPDATE [2-1]	*BED 2 B ₀ INIT [2-3]	
BREAKFAST [2-1]		
*BED 2 TEMP VERIF [2-3]		
*BAT A CHRG [2-4]	ATM CAB CLNT LOOP ACT [2-5]	WATER SAMPLE [2-5]
*IMS RESUPPLY CANISTER XFR [2-6]	ATM CONSOLE ACT [2-7]	*MC WATER ACT [2-7]
H ₂ O SEP PLATE WETTING PREP [2-8]		
*P50-1MU/ATM ORIENT DET [2-14] (OPT 2) (SS & ST)	*ASST CDR WITH P50 & P52 [2-15]	WARDROOM WATER SYS ACT [2-15]
*P52 1MU REALIGN [2-16] (OPT 3) (SS & ST)		
*ME-MOD [2-20] REPORT NR2 & NR3 [2-20]	CM URINE/L10H/ FECAL BAG XFR [2-21]	
CSM GAN/SCS PMR DMN [2-20]		

DATE 7/6/73

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MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

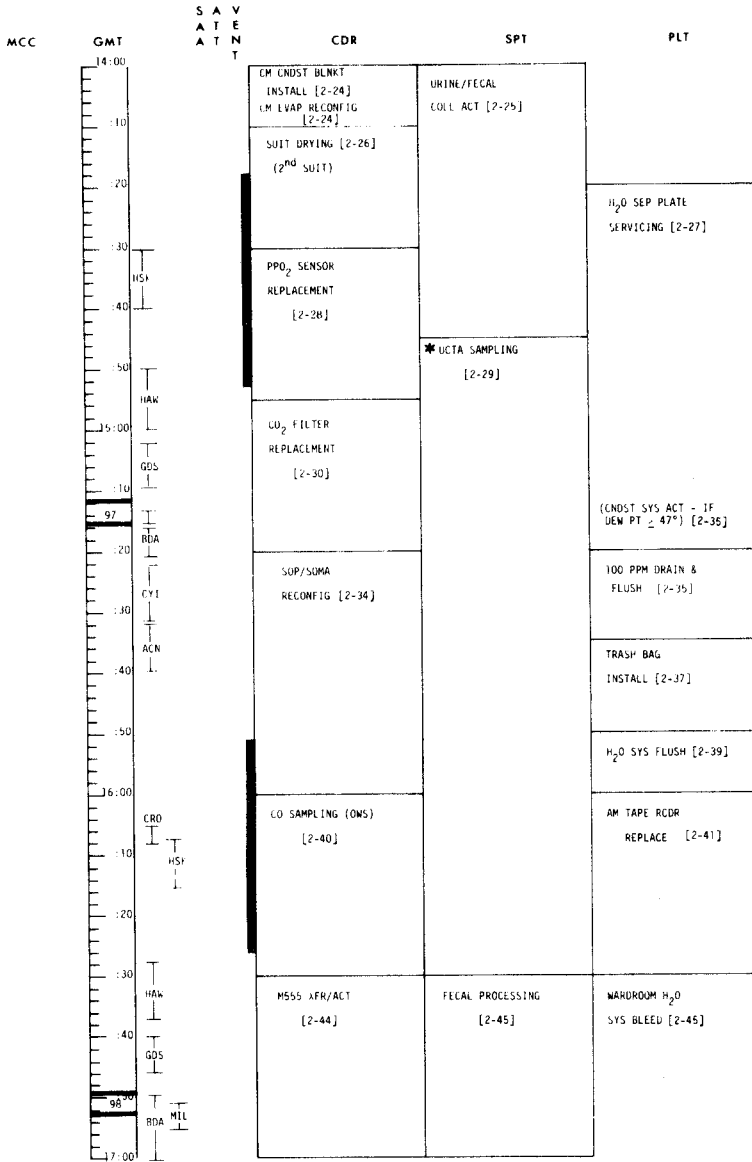
FLIGHT PLANNING BRANCH

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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA †	MOON PHASE
	14-00-17:00	2/210	JULY 29, 1973	1097	-22.0	

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DATE 7/6/73

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SL-3	FINAL	JULY 7, 1973

FLIGHT PLANNING BRANCH

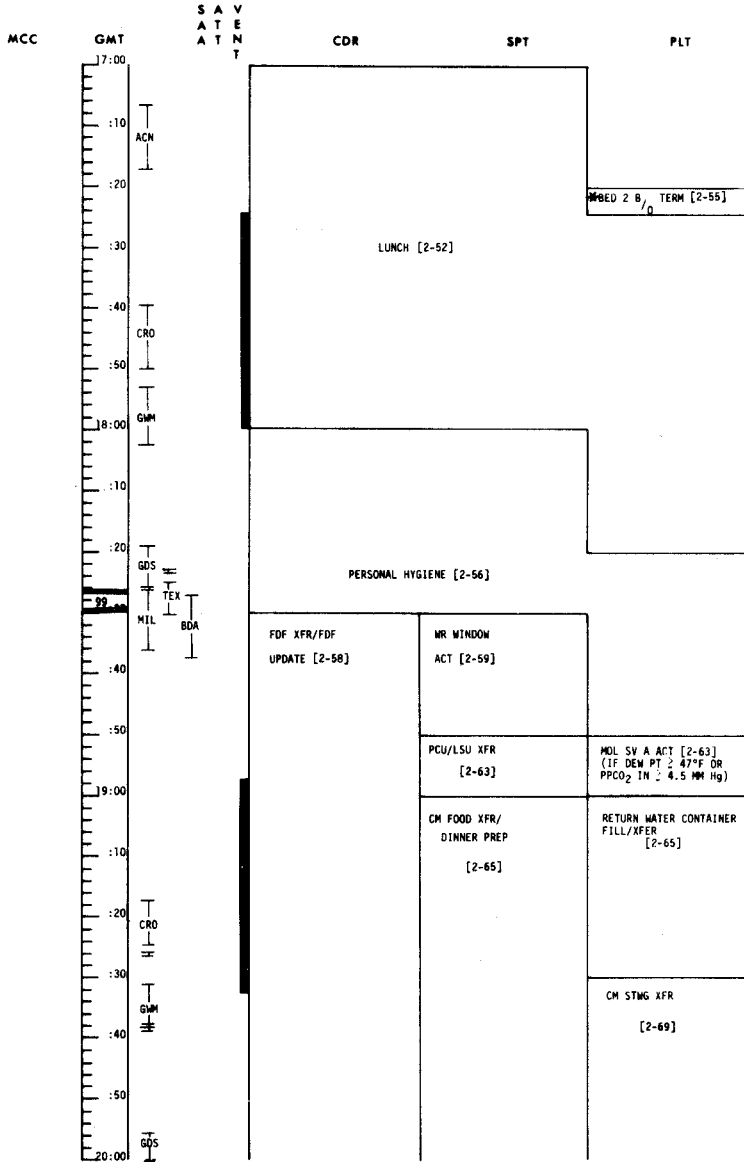
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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA \downarrow	MOON PHASE
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DATE 7/16/73

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MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

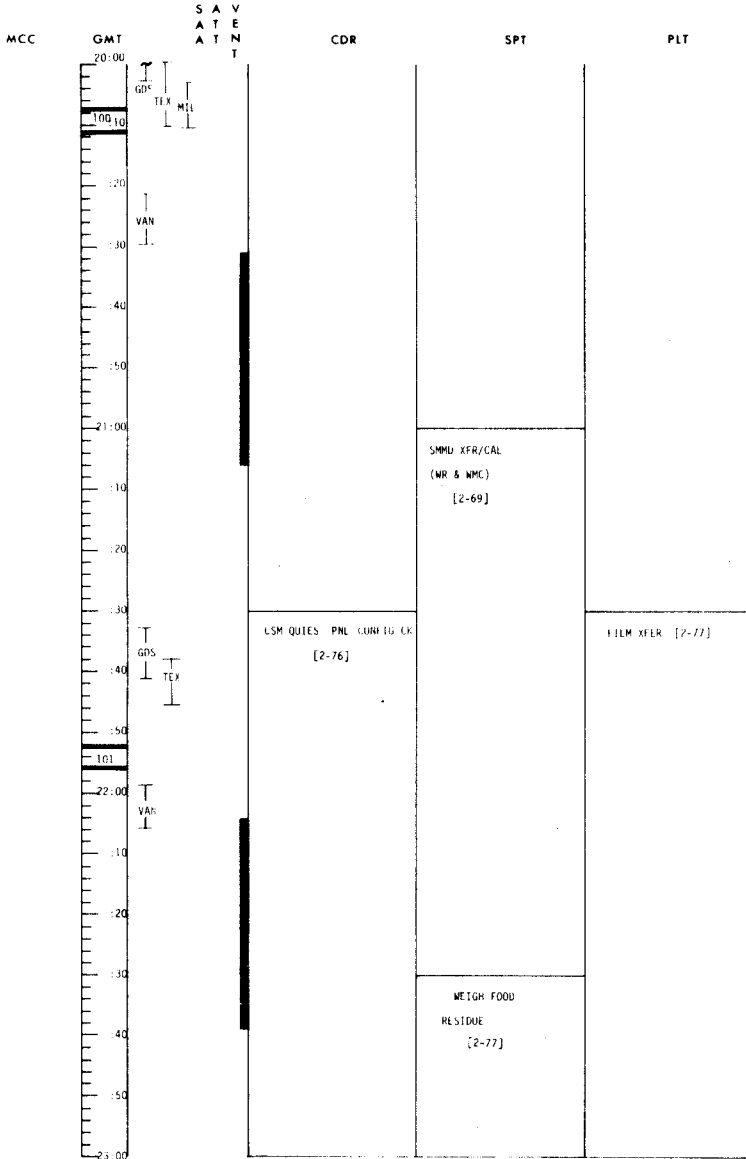
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FLIGHT PLANNING BRANCH

FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA	MOON
	20:00-23:00	7/270	JULY 29, 1973	1100	-21.3	PHASE

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DATE 7/6/73

MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

FLIGHT PLANNING BRANCH

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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA 4	MOON PHASE
	23:00-02:00	2/210	JULY 29, 1973	1102	-20.9	

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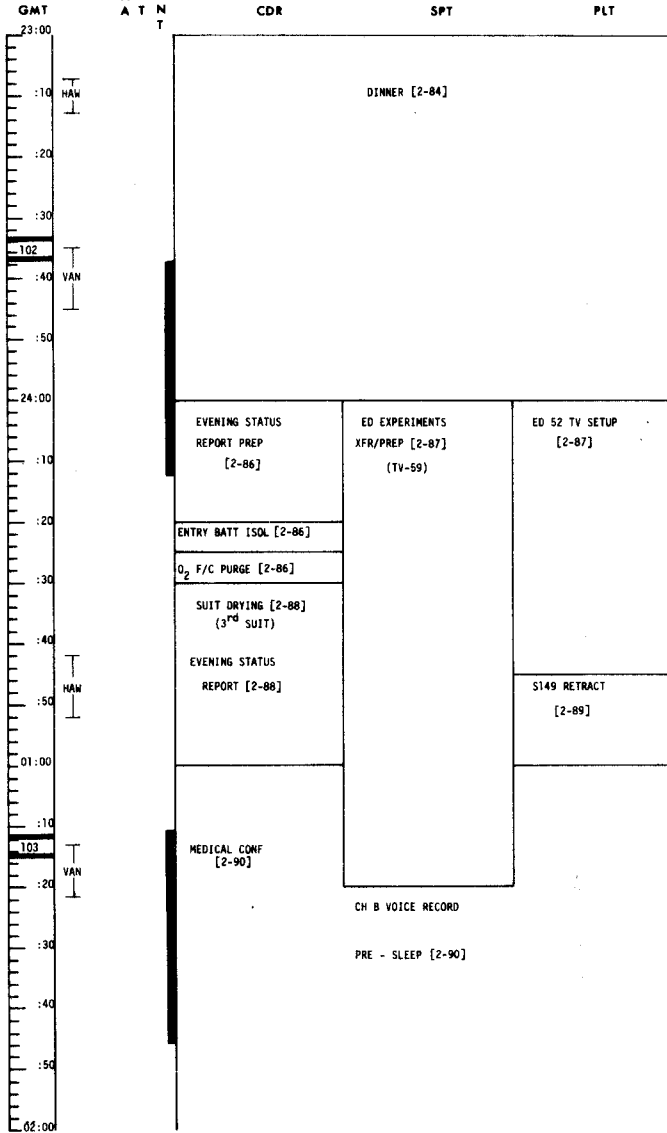
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DATE 7/6/73

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MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

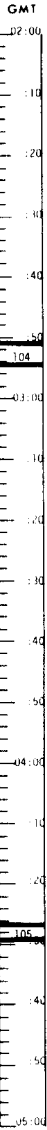
FLIGHT PLANNING BRANCH

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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA \downarrow	MOON	PHASE
	02:00-05:00	7/211	JULY 29, 1973	1104	-20.5		

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DATE 7/6/73

MISSION	EDITION	PUBLICATION DATE
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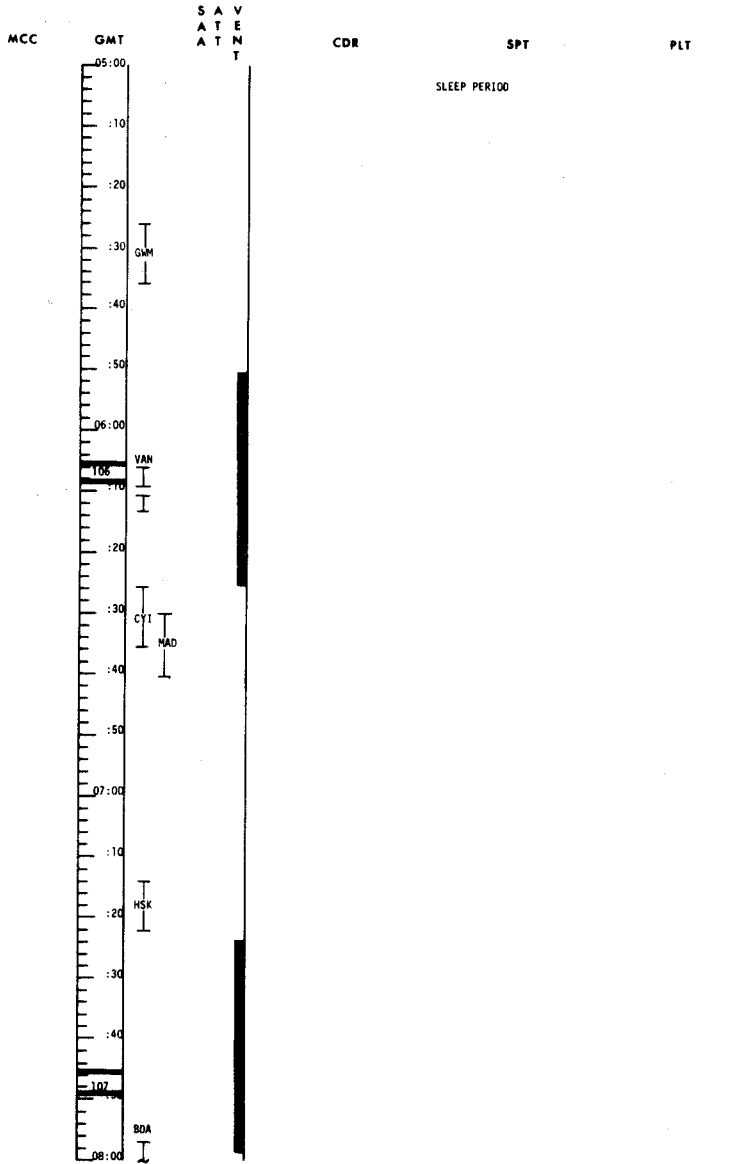
FLIGHT PLANNING BRANCH

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FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA ϕ	MOON PHASE
	05:00-08:00	3/21	JULY 30, 1973	1106	-20.2	

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DATE 7/6/73

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MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

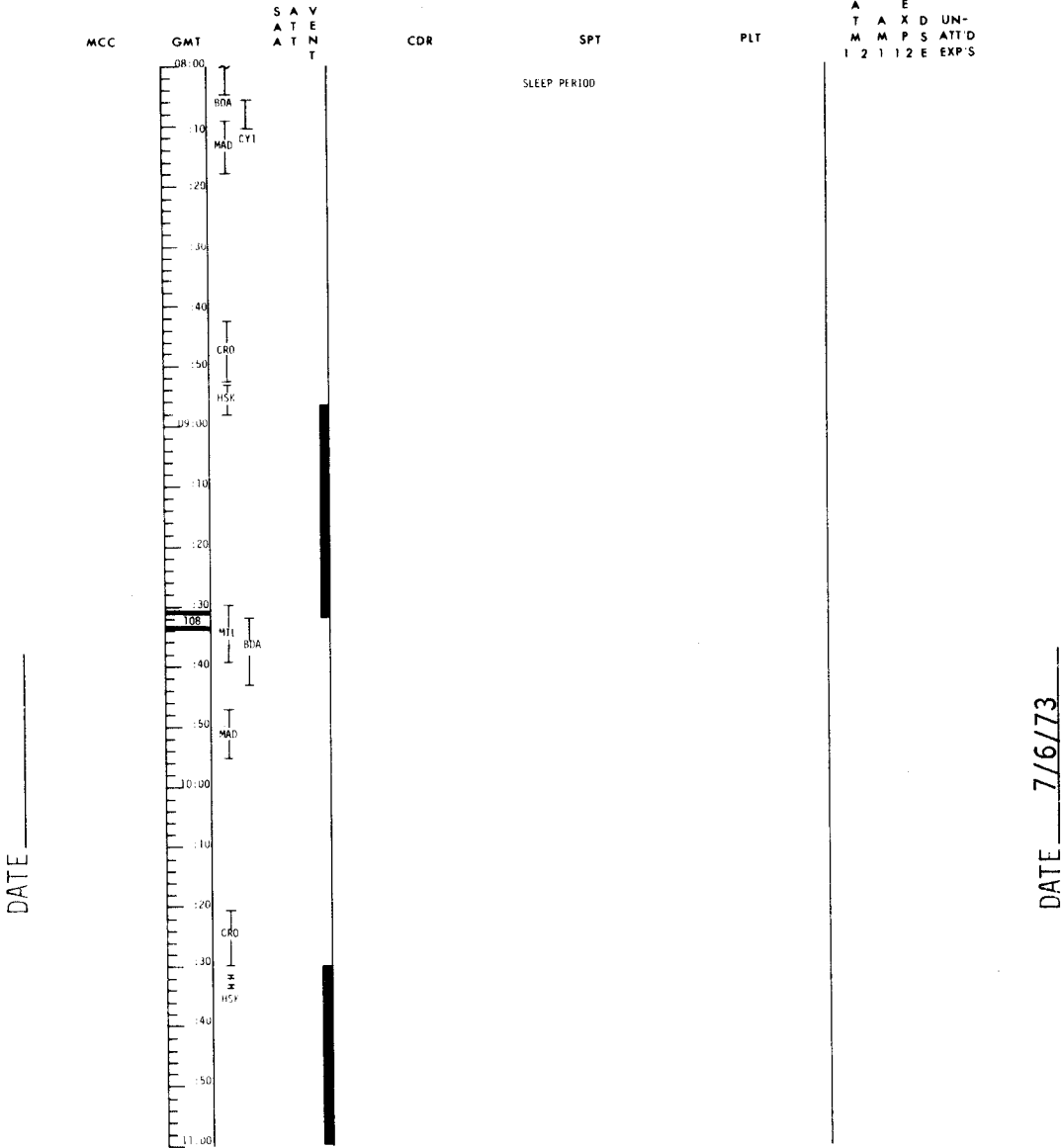
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FLIGHT PLANNING BRANCH

FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA \downarrow	MOON PHASE
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MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

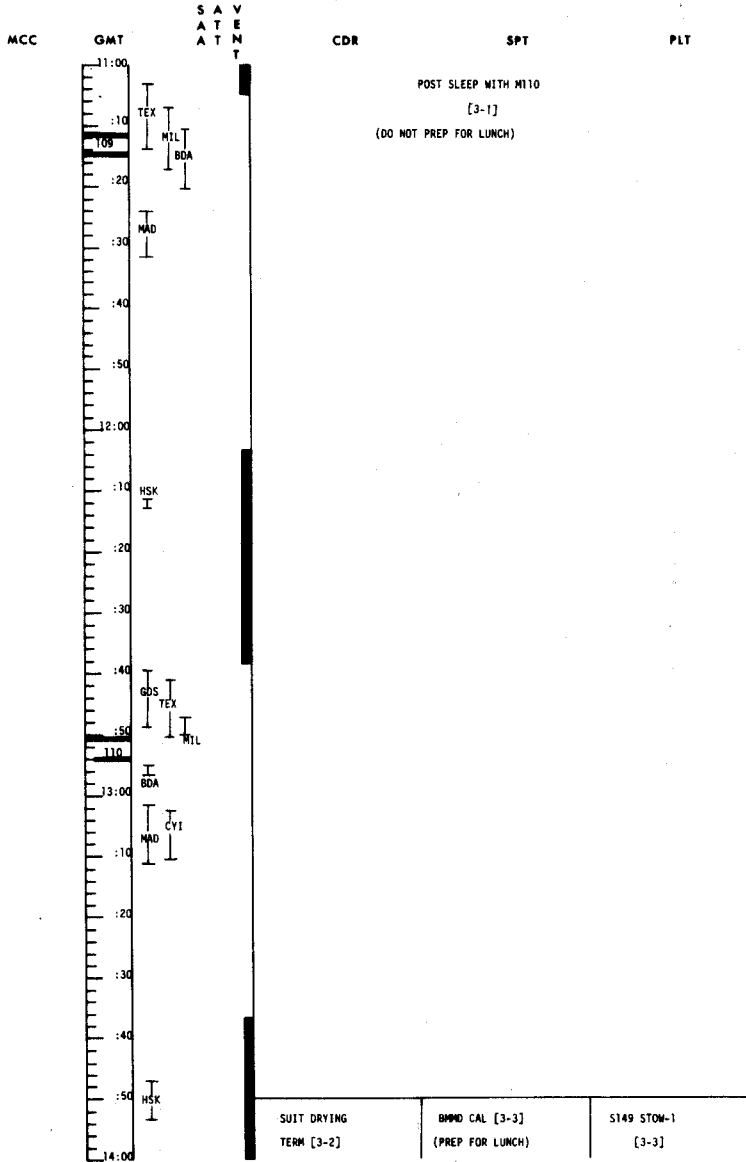
FLIGHT PLANNING BRANCH

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FLIGHT PLAN

GET	GMT	MO/DOY	HOUSTON DATE	REV	BETA \downarrow	MOON PHASE
	11:00-14:00	3/211	JULY 30, 1973	1109	-19.5	

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DATE 7/6/73

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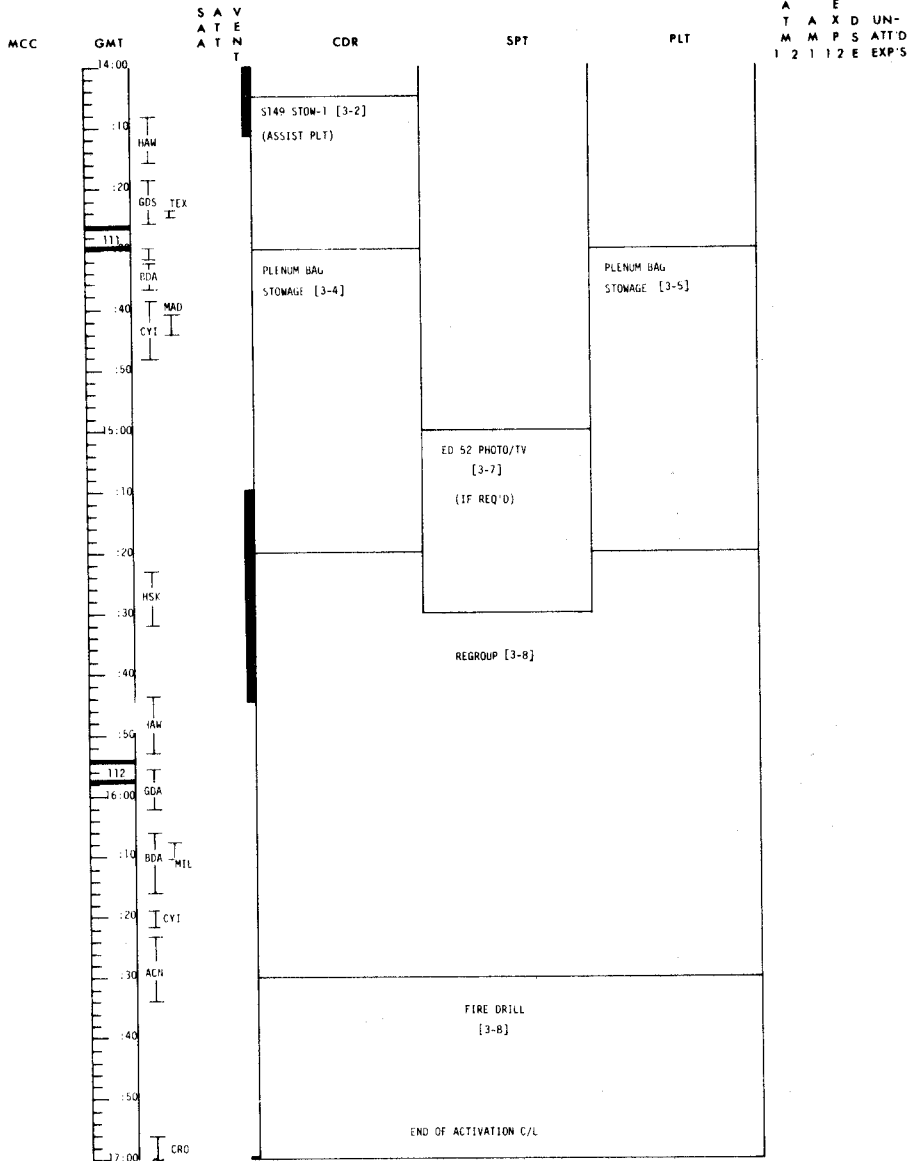
MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

SOL	A-SOL

FLIGHT PLANNING BRANCH

FLIGHT PLAN

GET	GMT	MD/DOY	HOUSTON DATE	REV	BETA \downarrow	MOON PHASE
	14:00-17:00	3/211	JULY 30, 1973	1111	-19.1	



MISSION	EDITION	PUBLICATION DATE
SL-3	FINAL	JULY 7, 1973

FLIGHT PLANNING BRANCH

SOL	A.SOL

DATE _____

DATE 7/6/73

DATE _____

DAY 1

DATE 7/6/73

NOTE: When initial UCTA is full,
stow in PORTABLE WASTE STORAGE
CONTAINER (A5)
Obtain 2nd UCTA with tracer
from A6

CDR/SPT 19:40

CM/MDA TUNNEL PRESS/INTEGRITY CK

Stow optics

CM12 MDA TUNL VENT vlv - MDA/CM ΔP (verify)
MDA/CM ΔP ind - 4.0 psid (pegged) CM377

HATCH PRESS EQUAL VLV - OPEN CM2
CM12 MDA/CM ΔP ind - 0.0 psid

HATCH *PRESS EQUAL vlv will not open: *
CM12 * MDA TUNL VENT vlv - MDA PRESS*
* for ~15 min

HATCH PRESS EQUAL VLV - CLOSE
CM12 Monitor MDA/CM ΔP ind for 2 min
& verify ΔP stable
PRESS EQUAL VLV - OPEN

19:45

NOTE: PLT perform SEC GLY EVAP DRYOUT
& BAT A CHRG wile CDR & SPT per-
form tunnel operations

★ SEC GLY EVAP DRYOUT

NOTE: SEC GLY EVAP DRYOUT takes ~50
min
Log time _____

GLY TO RAD SEC vlv - BYP (CCW)
(Verify)

SEC EVAP H2O FLOW - off(ctr)(verify)

SEC COOL LOOP PUMP - AC 1

SEC GLY DISCH PRESS ind - 40-52
psig

SEC ACCUM QTY ind - 30-60%

SEC COOL LOOP EVAP - EVAP

SEC GLY EVAP STM PRESS ind -
<0.15 psia

SEC GLY EVAP OUT TEMP ind - <43°F

Notify CDR SEC GLY EVAP DRYOUT
initiated

1-1

★ SEC EVAP D/O
★ BAT A CHRG

- ★ SEC EVAP D/O
- ★ BAT A CHRG

PLT

★ BAT A CHRG

CM5 1 MAIN BUS TIE A/C - OFF (verify)
cb BAT RLY BUS BAT A - open

CM275 cb BAT BUS A PYRO BAT A-open(verify)
cb BAT BUS B PYRO BAT B-open(verify)
cb BAT BUS A BAT C-open (verify)
cb BAT BUS B BAT C-open (verify)

CM3 DC IND sel - BAT CHARGER
BAT CHARGE - A
DC VOLTS - 37.5-39.5 vdc
Notify CDR BAT A CHRG has been
initiated

2 Verify/stow following checklists in
F2:
CSM G&C C/L
CSM SYS C/L
CSM RNDZ C/L (2)
CSM LAUNCH C/L (2)

CM278 3 Remove DOCKING RING cb ACTUATOR &
stow in U2

4 Stow COAS
Restow CM Q-CARDS in DATA CARD KIT
in R3
Install window shades

DATE 7/6/73

SPT 20:02

UPLINK/UPDATE

1 Go for MDA Hatch opening
2 P00, Accept (EMP SL-51 LOAD)

20:10

EAT (CSM)

Log menu deviations (CSM SYS C/L -
S/8)

1-2

DATE 7/6/73

CDR/SPT 21:00

CM TUNNEL HATCH REMOVAL (Decal)

- R5 Obtain probe tiedown straps (2) & temporarily restrain RH couch - 90°
- CM2 TUNNEL LTS - ON
PRESS EQUAL vlv - open (CCW)(verify)
*PRESS EQUAL vlv will not open - *
* TUNL VENT vlv - MDA PRESS *
ACTR HNDL - unstow, pull to stop, set to U
- push to stop CM2
Maif HATCH 1
Verify GEARBOX DISCONNECT SOCKET - U
ACTR HDNL SEL - stop, push handle to stow
Remove hatch & stow on RH couch (secure with straps)

NOTE: PLT perform MSN TMR UPDATE & CSM RCS PRPLNT RECONFIG while CDR & SPT clear tunnel

PLT 21:01

MSN TMR UPDATE

Change MISSION TMRS from GET to GMT

PLT 21:04

CSM RCS PRPLNT RECONFIG

PSM A - CLOSE, tb - bp
QUAD A - OPEN, tb (2) - gray
PSM B - CLOSE, tb - bp
QUAD B - OPEN, tb (2) - gray
PSM C - CLOSE, tb - bp
QUAD C - OPEN, tb (2) - gray
PSM D - CLOSE, tb - bp
QUAD D - OPEN, tb (2) - gray

SM RCS PSM 1 He - CLOSE, tb - bp
SM RCS QUAD He tb (4) - bp (verify)

1-3

DATE _____

DATE _____

CDR/SPT 21:05

DOCKING LATCH VERIFICATION (Decal)

LATCH HNDL - Pull lighting to verify
hook engaged (12 latches)

LATCH IND BUTTON (Red) - Flush
(12 latches)

Power BUNGEE FAIRING - Parallel
to +X

*Not parallel - Push +X end of *
* bungee before releasing *
*Unlocked Latches - *
* Release Latches *
* *Hook does not dis-engage: *
* * AUX REL (yellow)-push *
* * Release (cock) latch *
*Engage Latch - push Man-Release *

CDR/SPT 21:15

PROBE REMOVAL (Decal)

Verify EXTEND LATCH engaged indicator
(red) not visible

*EXTEND LATCH not engaged - *
* PRELOAD SEL LEVER-rotate CW *
* (away from orange stripe) *
* PRELOAD HNDL - Torque CCW to *
* engage extend latch (red *
* ind not visible) *

GN2 BLEED button (red) - press
(10 sec)

PRELOAD SEL LEVER - rotate CCW
(parallel to orange stripe)

PRELOAD HNDL - Torque (CW) to un-
load support beams

PROBE UMBILICALS (2)(yellow) - dis-
connect and stow

Elec connector covers (2)(yellow) -
close

1-4

DATE 7/6/73

DATE 7/6/73

PRELOAD HNDL - position against umbilical connector

PRELOAD SEL LEVER - mid position

INSTALLATION STRUT - unstow, position on tunnel wall (yellow marks)

RATCHET HNDL - unstow to full extension (green band)
- push to first detent (red band)

WARNING: Lf hand on blue handle

- push outbd and hold to fold probe

MALF DOCK 1

- pull to full extension (green band)
- ratchet one stroke only

Restow RATCHET HNDL and INSTALLATION STRUT

CAPTURE LATCH RLSE TOOL (Tool 7)

- insert in pyro cover ("7" align w/yellow support beam)
- rotate 180° CW and hold to unlock

*Capture latches will not *
* release *
* Ratchet probe forward *
* Preload probe until latches *
* release *

Remove PROBE - pull aft to release (25 lbs)

Verify CAPTURE LATCH cocked - plunger recessed below probe head cap

Remove and stow CAPTURE LATCH TOOL (Tool 7)

Temporarily stow probe under right hand couch (probe tie down straps)

CDR/SPT 21:25

DROGUE REMOVAL (Decal)

LOCK LEVER - Pull, rotate 90° CCW

DROGUE - rotate CW, push clear of support, remove from tunnel

Stow DROGUE on top of right hand couch (Secure with lap belts)

Record docking tunnel index angle
_____ (.1°)

1-5

★SEC EVAP D/O TERM

★ SEC EVAP D/O TERM

21:30

CDR

★ SEC GLY EVAP DRYOUT TERM

NOTE: Perform the following after
~50 min of SEC EVAP dryout

CM2 SEC GLY EVAP STM PRESS ind -
 0.05 psia (pegged low)
 SEC COOL LOOP EVAP - off (ctr)
 SEC COOL LOOP PUMP - off (ctr)

DATE 7/6/73

1-6

DATE 7/6/73

SPT

PLT

21:30

MDA HATCH OPENING

100 Translate to MDA hatch
Remove valve cap & stow on velcro
CSM/MDA ΔP ind - note value
PRESS EQUAL VLV - OPEN

*PRESS EQUAL VLV does not operate *
*CM PRESS < MDA PRESS *
* Release handle - OPEN (to stop)*
* Adjust CM PRESS up until hatch *
* unseats *
*CM PRESS > MDA PRESS *
* Adjust CM press down below MDA *
* press *
* Release handle - OPEN (to stop)*
* Adjust CM press up until hatch *
* unseats *

1-7

MDA HATCH OPENING
★ PRIM EVAP D/O

MDA HATCH OPENING

★ PRIM EVAP D/O

21:35

★ PRIM GLY EVAP DRYOUT

NOTE: Perform after SEC GLY EVAP
DRYOUT complete
PRIM GLY EVAP DRYOUT takes
~35 min
Log time _____

CM2 SUIT CIRCUIT HT EXCH - BYP
for 20 sec, then off (ctr)
CM382 SUIT HT EXCH SEC GLY vlv - BYP
EVAP WATER CONT PRIM vlv - OFF
EVAP WATER CONT SEC vlv - OFF
CM2 GLY EVAP H2O FLOW - off (ctr)
CM377 GLY TO RAD SEC vlv - NORM (CW)
CM2 SEC COOL LOOP PUMP - AC 1
SEC GLY DISCH PRESS ind -
40-52 psig
SEC ACCUM QTY ind - 30-60%
GLY EVAP STM PRESS AUTO - AUTO
(verify)
CM325 PRIM GLY TO RAD - BYP (Pu11)
CM2 PRIM GLY EVAP STM PRESS ind -
<0.14 psia
PRIM GLY EVAP OUT TEMP ind - <43°F

DATE 7/6/73

CDR

21:40

CM SUIT CIRCUIT DEACT

NOTE: Deactivate CSM SUIT CIRCUIT
within 30 min after MDA
hatch opening

CM2 SUIT CKT H2O ACCUM AUTO - ctr
CM201 C/W INPUTS 9D - INHIBIT
CM4 SUIT COMPR (2) - OFF
CM300, SUIT FULL FLOW vlv (3) - FULL FLOW
301, (verify)
302
B2 Stow O2 UMBIL SCREEN CAPS (3) in B2
B2 Obtain & install hose interconnects
Reroute suit hose to avoid hatch
interference during quick ingress
L2 Obtain CO2 grounding strap
CM350 Remove both LiOH canisters and
stow in empty TSB
L2 Stow CO2 grounding strap
CM380 SUIT RETURN vlv - CLOSE (push)
CM2 CABIN FANS (2) - ON (If required)

1-8

DATE 7/6/73

SPT

PLT

CSM/MDA Δ P ind - 0.0

- *Excessive CSM/MDA Δ P - *
- * Check PRESS EQUAL VLV for *
- * debris blockage (penlight) *
- * If blocked *
- * Release handle - OPEN (to *
- * stop) *
- * Adjust CM press up until *
- * hatch unseats *
- * If not blocked *
- * Proceed with hatch opening *
- * (Δ P ind has failed) *

Watch out for debris
Release handle safety trigger - lift
& rotate 90° toward hatch

CAUTION: Small Δ P may exist across
hatch
Grip hatch handle securely
when opening hatch

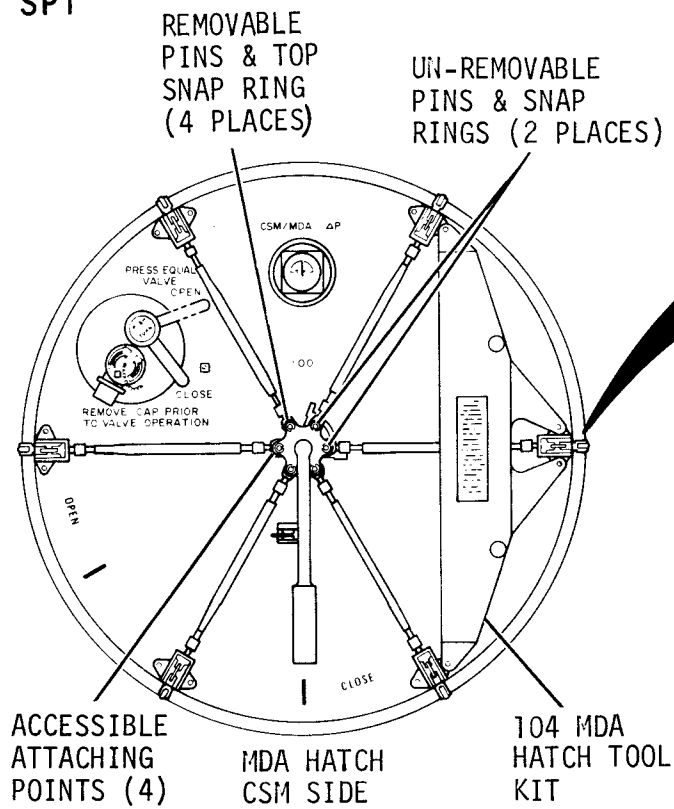
Release handle - OPEN (to stop)
Push hatch open to detent lock

1-9

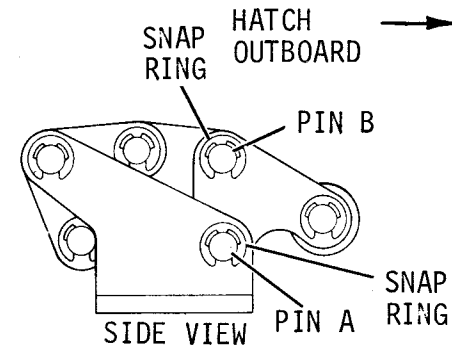
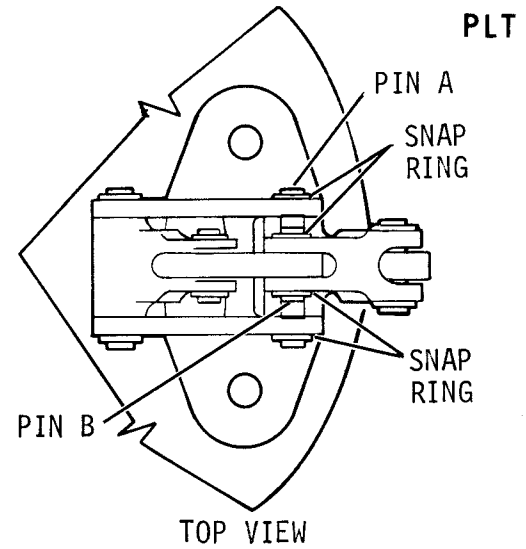
DATE _____

DATE _____

SPT



PLT



1-10

DATE 7/6/73

DATE 7/6/73

SPT

*MDA Hatch Latches Binding (MDA *
* Hatch Tool Kit) (Reference *
* Hatch Illustration, 1-10 *
* If binding latches can be de- *
* termined: *
* *
* 1 Remove top snap ring and pin *
* from latching arm assembly *
* center wheel attach point *
* associated with binding *
* latch (If attach point is *
* one of the 4 that are ac- *
* cessible) (Mallet, punch, *
* snap ring removal tool, *
* penlight) *
* Retract latching arm assembly *
* 2 If arm assembly cannot be *
* retracted, remove snap *
* rings (2) and pin A on *
* binding latch (mallet, *
* punch, snap ring removal *
* tool, penlight) *
* Retract latch *
* 3 If latch cannot be retracted, *
* remove snap rings (2) and *
* pin B on binding latch *
* (mallet, punch, snap ring *
* removal tool, penlight) *
* Retract latch * 1-11

PLT

* If binding latches cannot be *
* determined: *
* Repeat step 1 for each of the *
* accessible center ring at- *
* tach points until binding *
* assy is found *
* Attempt to rotate hatch *
* handle after removal of *
* each pin and snap ring *
* If binding assy can still not *
* be determined remove snap *
* rings per step 2 and 3 for *
* each latch until binding *
* assy is determined *
* *
* Release handle - OPEN (to stop) *
* *
* Push hatch open to detent lock *
* *
* NOTE: At least three equally *
* spaced latches must be *
* operable to adequately *
* seal hatch *
* If required, hatch re- *
* pair should be attempted *
* at earliest opportunity *
* in the event its use is *
* required during an emer- *
* gency egress *

DATE _____

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SPT

PLT

* *
*MDA Hatch Seal Frozen - (CSM and *
* MDA Hatch Tool Kits) *
* Place Hatch Breakaway Tool be- *
* tween CM/MDA tunnel inter- *
* face and edge of hatch at *
* CLOSE index mark *
* Force hatch off hatch seal *
* (tool F) *
* Push hatch open to detent lock *

21:45

MDA LIGHTS TURN ON

101 INTERIOR LIGHTS - ON (8 lts - on)

*MDA Lights Fail To Come On - *

* Use penlight to translate to STS*

202 * Verify cb COMPARTMENT LIGHTS MDA*

* (2) - close *

207 * LTG: MDA FWD (2) - ON (4 lts-on)*

* MDA AFT (2) - ON (4 lts-on)*

Inspect MDA

1-13

DATE _____

DATE _____

21:50

CDR

DROGUE & PROBE STOWAGE

- 1 Coordinate transfer with SPT
 - 2 Pass drogue to SPT
 - 3 Pass probe to SPT
- R5 Stow probe tie down straps (2)

1-14

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SPT

21:50

DROGUE AND PROBE STOW

- M105 Receive drogue from CDR
Stow drogue in MDA
Receive probe from CDR
M107 Stow probe in bag in MDA and re-
strain with bungees

22:05

AID INSTALL

- M118 1 Remove AID (4 straps, 1 Calfax)
Route AID into CSM and have CDR
secure
Connect fan end to CSM FAN
(1 Calfax)
Secure straps (4) to AID stowage
racks
203 2 Have PLT perform the following:
MDA FANS CSM sw - HI

PLT

21:50

MDA/STS ENTRY

- 100 1 PRESS EQUAL VLV - CLOSE
WARNING: Do not reinstall valve cap
207 2 LIGHTING: PANEL - FIXED (6 lts on)
STS (2) - FIXED (8 lts on)

Inspect for damage, loose equipment,
floating debris, etc

- 203 MOL SIEVE A FANS POWER sw - PRI
MOL SIEVE B FANS POWER sw - SEC

22:10

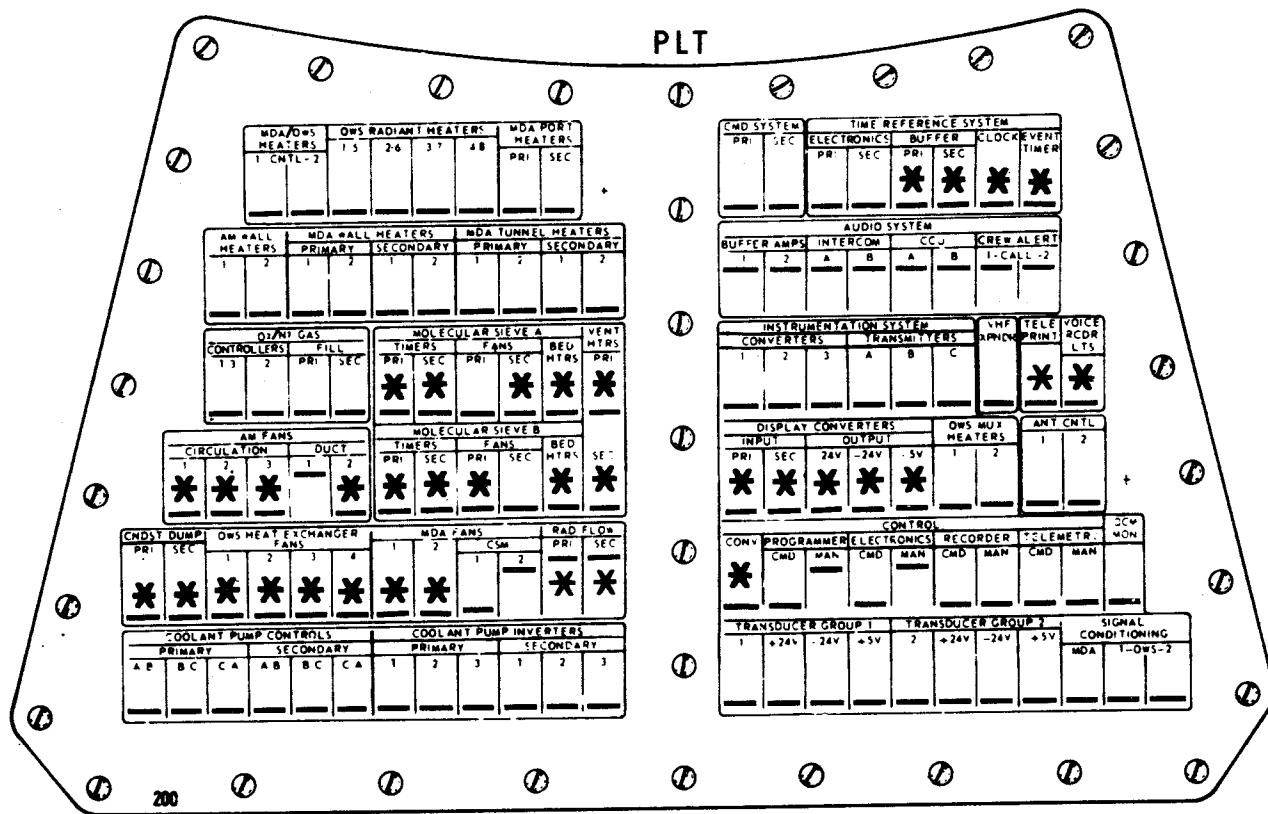
STS CB PANEL CONFIG

- 200, 1 Verify/configure cb's per charts
201, (See 1-16, 1-17, 1-18)
202

1-15

DATE _____

DATE _____

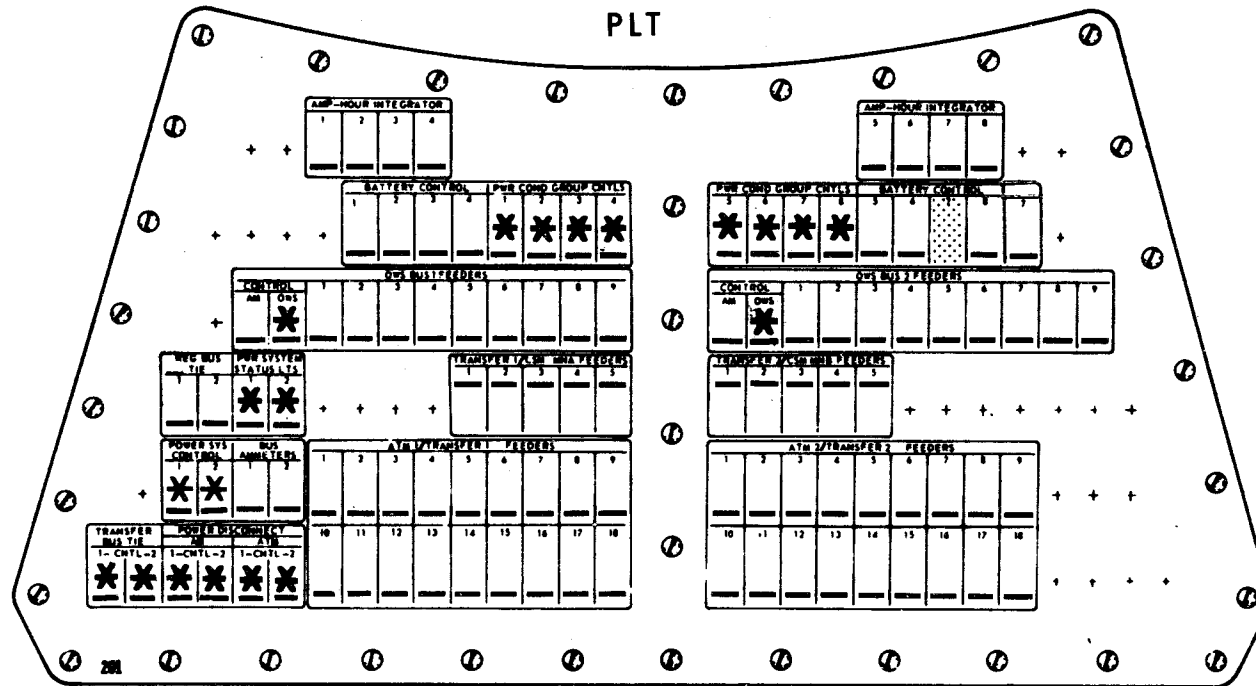


* ONLY THESE CBS REQUIRE SWITCHING

1-16

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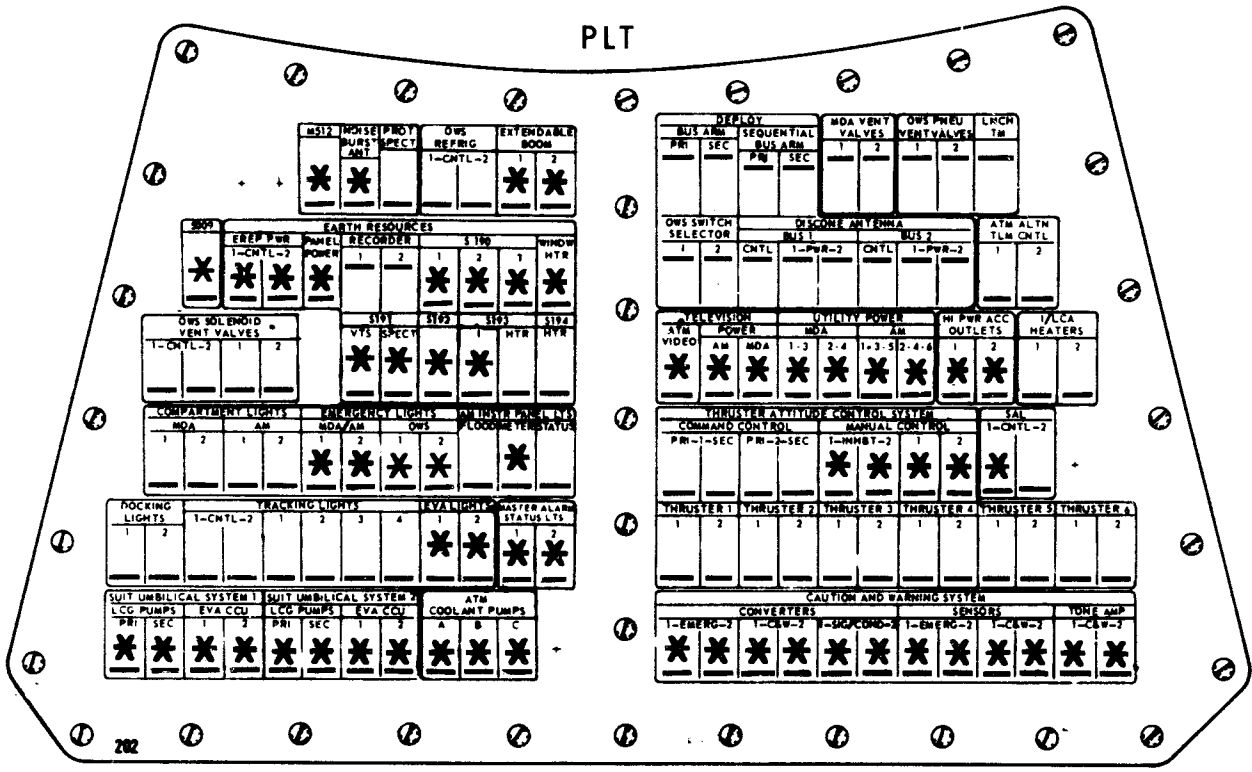
* ONLY THESE CBS REQUIRE SWITCHING

1-17

DATE _____

DATE _____

PLT



* ONLY THESE CBS REQUIRE SWITCHING

1-18

DATE 7/6/73

★PRIM EVAP D/O TERM

22:15

CDR

22:22

★PRIM GLY EVAP DRYOUT TERM

UPDATE

NOTE: Perform after ~35 min of PRIM
EVAP dryout

1 P52 STARS (1-32)

2 Report DOCKING TUNNEL Index angle
(1-5)

CM2 PRIM GLY EVAP STM PRESS ind - 0.05
psia (pegged low)
GLY EVAP STM PRESS AUTO - MAN
PRIM GLY TO RAD - NORM (PUSH)
CM377 GLY TO RAD SEC vlv - BYP (CCW)
CM2 SEC COOL LOOP PUMP - off (ctr)
CM5 cb H2O/URINE DUMP HTR MNB - open

22:20

GLYCOL CIRCUIT RECONFIG

CM2 CABIN FANS (2) - OFF
CM303 PRIM CAB TEMP vlv - HOT (CCW)
SEC CAB TEMP vlv - midrange

1-20

DATE 7/6/73

DATE 7/6/73

SPT

22:15

S190A WINDOW PROTECTOR INSTALL

- M115 Unlock S190A (2 pip pins and 2 restraint knobs)
Rotate S190A to the stowed position & reinsert tethered pins
Inspect S190 window for damage (penlight)
- M116 Obtain S190 window protector
- M115 Place S190 protector on window aligning guide pins with holes
- 212 Start fasteners (4) and tighten per sequence on window frame

PLT

22:20

STS PANEL CONFIG

- 203 1 OWS RADIANT HEATERS 1&2 sw (2)-OFF
AM FANS CIRCULATION sw (3) - HI (crew comfort option)
AM DUCT FANS sw - HI
MDA FANS 1&2 sw (2) - HI
RAD FLOW PRI & SEC sw (2) - NORM
- 204 2 INST SYS DISPLAY CONV sw - PRI
- 212 3 TRS BUFFER sw - PRI
DISPLAY sw - ON
Set clock day
- 209 4 Tighten teleprinter cartridge fasteners (4)
TELEPRINT sw - CMD
- M202 5 Obtain portable timers (4), distribute among crew (3) & velcro other to MOL SV A cover

1-21

DATE _____

DATE _____

22:25

CDR

UMBILICAL CONN PREP

NOTE: Configure comm sw's upon SPT
request
Use center couch HDST for comm
with STDN

CM6 POWER - OFF
VHF AM - OFF
AUDIO CONT - NORM (verify)

CM9 POWER - OFF
VHF AM - OFF
AUDIO CONT - NORM (verify)

CM3 S/BD NORM XPNDER - PRIM (verify)
PTT BU - NORM (verify)

CM225 cb S BD PWR AMPL/PHASE MOD XPNDR
2 FLT BUS - open

CM230 Verify: CSM/SWS INTERFACE sw (3) -
DISC; tb (2) - gray
: CSM/SWS INTERFACE TUNNEL
cb's (10) - open

A8 Obtain MDA umbilical container &
pass to SPT
Assist SPT as required

1-22

DATE 7/6/73

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SPT

22:25

PLT

UMBILICAL CONN PREP (Requires CDR)

1 SPT translate to MDA hatch and
coordinate between CDR & PLT

2 Have CDR perform PREP for
UMBILICAL CONN (1-22)

1-23

DATE _____

DATE _____

22:30

CDR

CM 02 SYSTEM CONFIG

NOTE: O2 SYS CONFIG disables H2O gun
If H2O req'd

CM351 CAB REPRESS vlv - CLOSE (CCW)
MAIN REG (2) - OPEN
AFTER H2O obtained
MAIN REG (2) - CLOSE
CAB REPRESS vlv - OPEN (CW)

CM351 MN REG (2) - close
WATER & GLY TKS PRESS (2)
- BOTH (verify)
CAB REPRESS vlv - OPEN (CW)

CM2 O2 FLOW ind - log _____
(pegged low)

CM380 DEMAND REG sel - OFF

CM375 SRG TK PRESS RELF vlv - close (CCW)

CM602 REPRESS O2 RELF - close (CCW)

CM325 CAB PRESS RELF (2) - CLOSE

CM326 SRG TK O2 vlv - OFF
REPRESS PKG vlv - OFF (verify)

CM351 EMER CAB PRESS vlv - OFF

1-24

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SPT

22:30

CSM/MDA UMBILICAL CONN

1 Receive MDA umbilical container
from CDR
Have PLT verify STS CB PNL CONFIG
complete

M100, 2 Remove dust covers (3) from MDA
M101, tunnel connectors and place in
M103 MDA umbilical container

NOTE: Prior to each umbilical con-
nection, remove dust caps (2)
from umbilical & stow in umbil-
ical container

M103 3 Connect control umbilical conn P10
to AUDIO A tunnel connector (red
to red)

CM Open CSM tunnel connector fairing
J23 (white)
Connect control umbilical conn P23
to J23 (white to white)
Route umbilical thru slot in back
of receptacle assy & close
fairing

UMBILICAL CONN

PLT

22:30

ST90 WINDOW HTR ACT

117 WINDOW HEATER AUTO HEAT sw - ON
(Δ TEMP may come on)
If Δ TEMP lt - off: push to test
WINDOW HEATER OVERTEMP pb/lt - push
to test

1-25

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PLT

- SPT
M100 4 Connect control umbilical conn P9
to AUDIO B tunnel connector
(green to green)
- CM Open CSM tunnel connector fairing
J24 (orange)
Connect control umbilical conn P24
to J24 (orange to orange)
Route umbilical thru slot in back
of receptacle assy & close
fairing
- M101 5 Connect power umbilical conn P11
to POWER TRANSFER tunnel
connector
- CM Open CSM tunnel connector fairing
J25 (purple)
Connect power umbilical conn P25 to
J25
Close J25 fairing
- 6 Notify PLT & CDR CSM/MDA umbilical
connection complete
- M157 7 Stow MDA umbilical container (in
slot vacated by SOMA & SOMA (bag))

22:35

02/N2 ACT

225

CABIN PRESS REG tgl vlv (2) - OPEN
N2 SOLENOID VLV SEL - PRI
PP02 sensor cover open (verify)

1-27

02/N2 ACT
BASIC COMM CONFIG

02N2 ACT
BASIC COMM CONFIG

22:40

CDR CM10

CSM/SWS BASIC COMM CONFIG

CAUTION: Do not perform until SPT
verifies CSM/MDA umbili-
cals connected

CM225 1 cb S-BD PWR AMPL/PHASE MOD XPNDR
2 FLT BUS - close

CM4 2 TELCOM GRP 1 - AC1 (verify)
TELCOM GRP 2 - AC2 (verify)

CM9 3 MODE - INTERCOM/PTT
PAD COMM - OFF (verify)
S-BD - OFF
S-BD tw - 4.4
POWER - AUDIO
MASTER tw - 5.0
INTERCOM - OFF
INTERCOM tw - 4.5
VHF AM - OFF
VHF tw - 5.4
AUDIO CONTROL - NORM (verify)
SUIT POWER - OFF

CM6

MODE - INTERCOM/PTT
PAD COMM - OFF (verify)
S-BD - T/R
S-BD tw - as desired
POWER - AUDIO/TONE
MASTER tw - as desired
INTERCOM - T/R
INTERCOM tw - as desired
VHF AM - OFF
VHF tw - as desired
AUDIO CONTROL - NORM (verify)
SUIT POWER - OFF
MODE - INTERCOM/PTT
PAD COMM - OFF (verify)
S-BD - T/R
S-BD tw - 5.0
POWER - AUDIO
MASTER tw - 5.0
INTERCOM - T/R (FOR SPKR BOX use)
- OFF (NO DSE VOICE recd)
INTERCOM tw - 4.0
VHF AM - OFF
VHF tw - 5.2
AUDIO CONTROL - NORM (verify)
SUIT POWER - OFF

NOTE: Full-up CM/SWS COMM now
available if SPT has com-
pleted STS COMM ACT/CK

DATE 7/6/73

1-28

DATE 7/6/73

SPT

22:40

CAUTION & WARNING ACT

CAUTION: Do not perform until CSM/
MDA umbilicals connected

206 1 C/W SYS POWER: EMERGENCY sw (2)-ON
CAUT & WARN sw-ON

207 Wait 60 sec
INHIBIT PANEL sw - all up (enable)
except CNDSATE/TANK ΔP & SIEVE A,
B PPC02 HI (2)

PLT

22:40

SOP/SOMA CONFIG

M157 Obtain SOMA & bag & temporarily
stow by SOP

M165 Remove SOP docking load straps and
stow under cover next to SOP

Configure SOP cover

Mount SOMA on SOP

Connect SOMA to SOP

Strap SOP assembly to leg

SOP 02 vlv - open

1-29

DATE _____

DATE _____

CM98	4	CALL/SLEEP - ON (ctr) SPKR/HDST - SPEAKER	CDR	CM3	VHF BCN - OFF (verify) VHF RNG - OFF (verify) S-BD SQLCH - ENBL (verify) TV SOURCE - SWS TAPE RCDR PCM - PCM/ANLG (verify) TAPE RCDR RCD - RCD (verify) TAPE RCDR FWD - FWD (verify) SCE PWR - NORM (verify) PMP PWR - NORM (verify) PCM BIT RATE - LOW (verify) PTT BU - NORM (verify)	
CM3	5	S-BD XPNDR - PRIM (verify) S-BD PWR AMPL PRIM - PRIM S-BD PWR AMPL HI - HIGH (verify) S-BD MODE VOICE - VOICE (verify) S-BD MODE PCM - PCM (verify) S-BD MODE RNG - RNG (verify) S-BD AUX TAPE - off (ctr) S-BD AUX TV - off (ctr) (verify) UP TLM DATA - DATA (verify) UP TLM CMD - NORM (verify) PWR AMPL tb - gray (verify) TAPE MOTION tb - gray S-BD ANT OMNI - RMTE VHF AM A - off (ctr) VHF AM B - off (ctr) VHF AM RCV ONLY - off (ctr) (verify)		CM230	6	CSM/SWS INTERFACE: SIGNAL sw-CONNECT tb-bp

1-30

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★SXT P52

22:50

CDR

22:55

★SXT P52 IMU REALIGN (OPT 3) G/3-7

GDC ALIGN (G/3-17)

(Sunset 22:45 - 23:20)

Unstow optics

STARS: _____

N71: _____.

N05: _____.

_____.

N93:X _____.

Y _____.

Z _____.

TIME: _____.

V37E00E

1-32

DATE 7/6/73

DATE 7/6/73

SPT

PLT

22:50

AM SINGLE POINT GND DISCONN

CAUTION: Do not perform until CSM/
MDA umbilicals connected

206 PWR SYS LTS BUS 1 sw - STATUS
ELEC GND lt - on (amber)
ELEC GND sw - CSM
ELEC GND lt - on (green)
PWR SYS LTS BUS 1 sw - OFF

22:55

STS COMM ACT/CK

CAUTION: Do not perform until CSM/
MDA umbilicals connected

200 1 cb AUDIO SYSTEM (8) - close

NOTE: Comm system is activated if
CDR has completed CSM/SWS
BASIC COMM CONFIG
Utilize SIA's as desired
Voice record as desired on
CHN A

1-33

AM SPG DISCONN
STS COMM ACT/CK

AM SPG DISCONN
STS COMM ACT/CK

CDR

23:00

CENTER COUCH STWG

Fold seatpan (0°), leg pan & foot pan
Release hip plates & clamps
Pull shoulder pip pins
Break couch & fold towards hatch
Pass shoulder straps thru ingress/
egress bar & secure to lap belt
buckle

1-34

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SPT
131

2 COMM CHAN sel - A ON
ICOM/XMIT sw - ICOM
Perform comm check with CDR
ICOM/XMIT sw - XMIT
Perform comm check with STDN

NOTE: If STDN not available
conduct comm check at
first opportunity

23:00

OBSERVE PLT (OWS)

PLT

23:00

AM/DOME ENTRY

316 1 LIGHTING LOCK sw - BRIGHT
Inspect Lock Compartment

390 2 LIGHTS AFT sw - BRIGHT
Inspect Aft compt

NOTE: Notify SPT to observe OWS entry

390 3 LIGHTS OWS ENTRY sw - ON
OWS HEAT EXCHANGER FANS (4) - OWS
Don SOMA near OWS Hatch

401 4 COMM CHANNEL sel - A ON

1-35

DATE _____

DATE 7/6/73

SPT

PLT

23:05

OWS FAN ACT

- 615 1 All cb's - closed (verify)
- 616 2 LTG sw (13) - ON
- 613 cb DISP PWR/RCDR CONT (2) - close
- 614 cb TCS DUCT FANS (12) - close &
monitor
- 617 TCS DUCT AIR FLOW ind (3) - 475 cfm
(min)
Set portable timer for 5 minutes
- 390 3 LIGHTS OWS ENTRY sw - OFF
- 4 Return to MDA
- M165 5 Doff SQMA/SOP & stow
- SOP 02 vlv - CLOSE
- 234 OWS/MDA vlv sel - OWS (verify)

1-37

OWS FAN ACT
CSM C&W CK

OWS FAN ACT
CSM C&W CK

23:15

CDR CM1,3

M/A pb/lt - push
M/A pb/lt (3) & tone - off

CSM C&W CK

CM2 C/W NORM - NORM (verify)
C/W LAMP TEST - 1 (hold)
CM1 lh M/A pb/lt - on
CM2 lh C/W lts (18) - on
C/W LAMP TEST - 2 (hold)
CM3 rh M/A pb/lt - on
CM2 rh C/W lts (17) - on
C/W LAMP TEST - rel (lts out)

Notify MDA crewman C&W from CSM
will be triggered
C/W CSM - CM
CM RCS lt (both) - on
M/A pb/lt (3) & tone - on

Have MDA crewman verify/perform:

207 C/W CSM lt & tone - on
206 MASTER ALARM - Push (w Tone/MA-
off)

207
CM2

C/W CSM lt - off
C/W CSM - CSM
CM RCS lt (2) - off
C/W MEMORY - RESET

206

Have MDA crewman perform:
C/W MEM RECALL pb/lt - push & hold
C/W CSM lt - on
C/W MEM RECALL pb/lt - release
C/W CSM lt - off
C/W CLEAR - CLEAR
C/W MEM RECALL pb/lt - off

1-38

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SPT

23:15

ASSIST CDR WITH CSM C&W CK

PLT

23:15

OWS CB/SWITCH CONFIG

CAUTION: Do not proceed until OWS
FANS ON for 5 min (portable
timer tone - on)

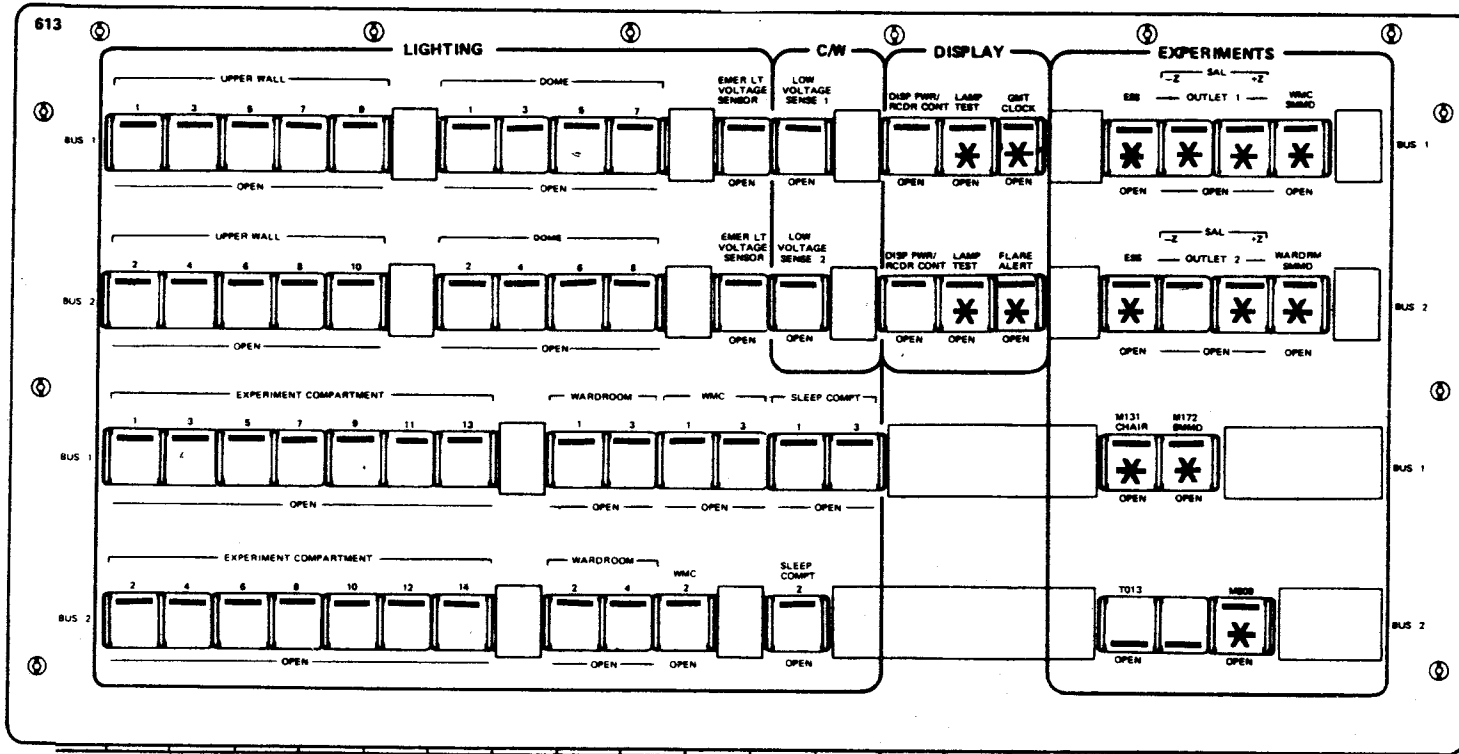
- 403 1 Determine if debris is in SOLENOID
VENT PORT (if debris is seen,
voice record and continue on)
- 600 2 COMM CHAN sel - A ON
- 611 3 All cbs closed (verify)
- 612 4 All cbs - close
- 613 5 Verify/configure cb's per 1-40
- 614 6 Verify/configure cb's per 1-41
- 616 7 RS STATUS RESET - RESET (PRI FREEZER
HI lt - off)
- 610 8 DISPLAY sw - ON
BRIGHTNESS adj - as req
- 607 9 FLARE ALERT sw - ON

1-39

DATE _____

DATE _____

PLT



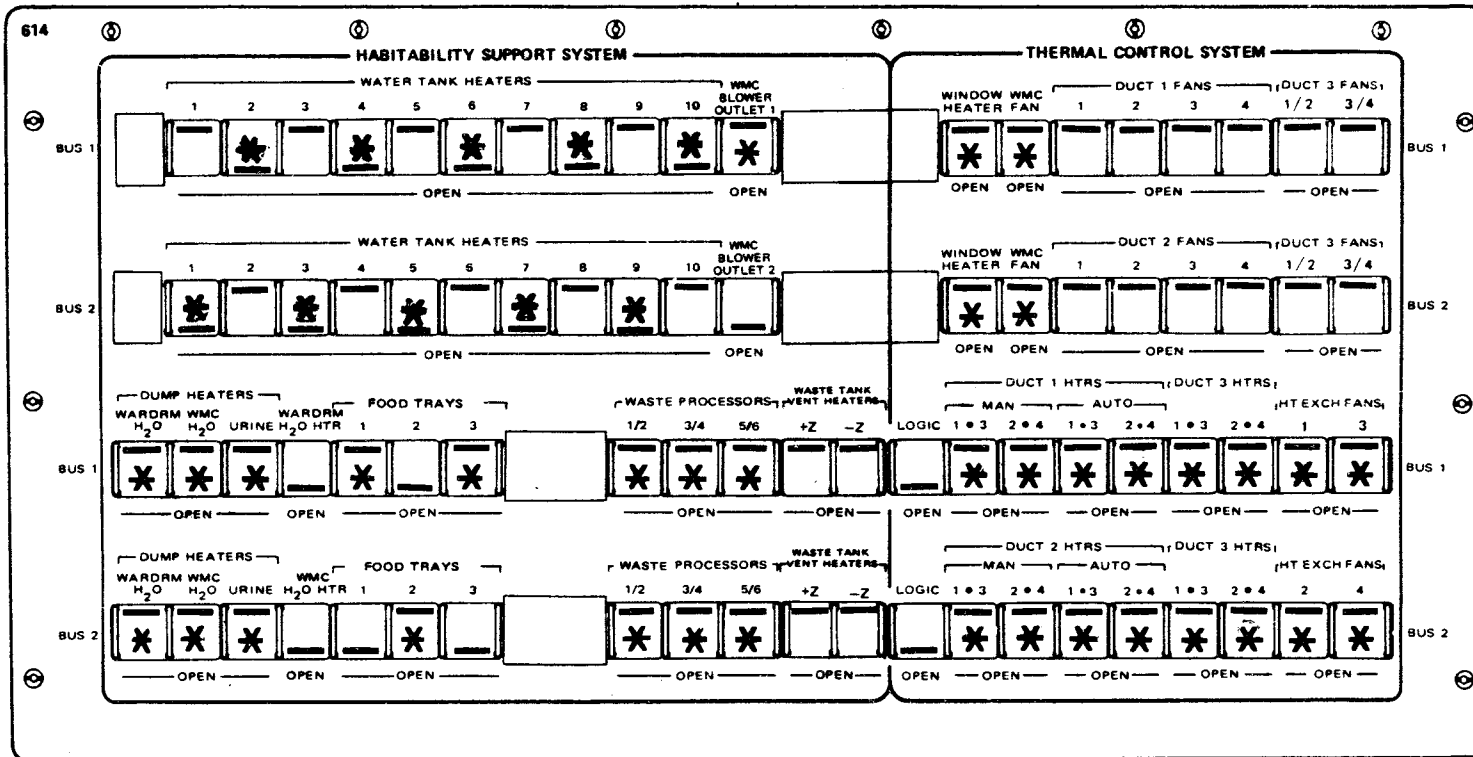
* ONLY THESE CB'S REQUIRE SWITCHING

1-40

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PLT



* ONLY THESE CB'S REQUIRE SWITCHING

SWS C&W CK

23:25

SWS C&W CHECKOUT

FIRE SENSOR TEST

NOTE: SPT should perform his test first
SPT will test FSCP 392,529,530,618,619,633,638, & 639
CDR will test FSCP 120,236,237 & 238

FSCP 1 SENSOR 2 sw - OFF
SENSOR 1 sw - BUS 1 (verify)

CDR 2 MASTER ALARM sw - TEST (hold ~2 sec)
(Siren/W Tone/MA/SENSOR 1 lt - on)
207, Verify appropriate FIRE lt - on:
616

<u>FSCP</u>	<u>C/W lt</u>
392	AM AFT FIRE
529,530**	OWS FWD FIRE
120,236,237, 238	MDA/STS FIRE
618,619**	OWS EXP FIRE
633,638,639	OWS CREW QTRS FIRE

(**TEST SENSOR 1 only, SENSOR 2 non-existent)

FSCP MASTER ALARM - reset
(Siren/W Tone/MA - off)
207, Verify appropriate FIRE lt - off
616
FSCP SENSOR 1 sw - OFF (SENSOR 1 lt-off)

3 SENSOR 2 sw - BUS 2
Repeat step 2

4 SENSOR 2 sw - BUS 2
SENSOR 1 sw - BUS 1

1-42

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SPT

PLT

23:25

23:25

FSCP CK

TCS ACT

CAUTION: Do not proceed until OWS 614
FANS ON for 5 min 617

1 cb TCS LOGIC (2) - close
TCS DUCT 1&2 HEATERS sw (4)-AUTO
TCS HEAT EXCHANGER FANS sw(4)-AUTO
TCS TEMP SELECT - 72°F

NOTE: SPT will verify tones/MA when
on during C&W tests.

520 1 COMM CHANNEL sel - A ON
540 COMM CHANNEL sel - A ON

627 2 COMM CHANNEL sel - A ON
630 LTG sw (3) - ON

2 Perform tests on FSCP 392, 529,
530, 618, 619, 633, 638, & 639
when requested by CDR (See T-42)

23:30

WATER SYS GAS BLEED

700 1 WINDOW HTR sw - BUS 1
H2O DUMP HTR sw - 1
DUMP H2O 1t - ON
617 DUMP HEATER 1t - ON
800 DUMP H2O HTR sw - 2
DUMP H2O 1t - ON

1-43

DATE _____

DATE _____

FIRE SYSTEM TEST

CDR

NOTE: PLT and SPT are to verify lights and tones in OWS for remaining test

- 1 MEMORY TEST:
- 131 Notify other crewmen FIRE test to be initiated
- 206 FIRE TEST sw - 1
(Siren/W Tone/C Tone/MA/RECALL/EMERG POWER 1t/FIRE (5) 1t-on)
- 206 FIRE TEST sw - OFF (EMERG POWER 1t-off)
Verify Siren/W Tone/MA/FIRE (5) 1t-on
- 206 MASTER ALARM pb/1t - push
Verify Siren/W Tone/C Tone/MA/FIRE (5) 1t - off
- 206 CLEAR sw - CLEAR (RECALL - off)

2 TRACKING TEST:

FIRE TEST sw - 1
(Siren/W Tone/C Tone/MA/RECALL/FIRE 1t (5)/EMERG POWER 1t - on)
MASTER ALARM pb/1t - push
(Siren/W Tone/C Tone/MA - off)
Verify FIRE 1ts (5) - on
FIRE TEST sw - OFF
(FIRE 1ts (5)/EMERG POWER 1t - off)
CLEAR sw - CLEAR (RECALL - off)

3 Repeat steps 1 & 2 for FIRE TEST sw-2

1-44

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SPT

PLT

- WDRM 2 Open access doors to water heater
and water chiller on food table
Connect dump lines (2) to WATER
HEATER DUMP PORT and WATER
CHILLER DUMP PORT
706 H2O DUMP vlv - OPEN
- WMC 3 Open WMC WATER HEATER access door
Connect WMC dump line to WATER
HEATER DUMP PORT
WATER HTR OUTLET vlv - CLOSE
H829 Open access door below WMC sink
831 H2O DUMP vlv - OPEN
- FWD 4 Remove WDRM purge fitting from
WARDROOM 1 hose and stow fitting
below WT 2
Remove WMC purge fitting from WMC 1
hose and stow fitting below WT 7
Connect WMC 2 hose to WMC 1 hose

1-45

DATE _____

DATE _____

<u>RAPID ΔP SYSTEM TEST</u>		CDR	
		206	2 TRACKING TEST: ΔP TEST sw - 1 (C Tone/MA/RECALL/EMERG POWER lt-on)
131	1 MEMORY TEST: Notify other crewmen Rapid ΔP test to be initiated		Within 5-15 sec: (Klaxon/W Tone/RAPID ΔP lt - on)
206	ΔP TEST sw - 1 (C Tone/MA/RECALL/EMERG POWER lt-on)	616	Within 20 sec: MASTER ALARM pb/lt - push (Klaxon/W Tone/C Tone/MA - off) Verify (RAPID ΔP lt - on)
	Within 5-15 sec: (Klaxon/W Tone/RAPID ΔP lt - on)		Within 40 sec: Verify (RAPID ΔP lt - off)
206	ΔP TEST sw - OFF (EMERG POWER lt-off)	206	ΔP TEST sw - OFF (EMERG POWER lt-off) (Klaxon/W Tone/MA/RAPID ΔP lt-on)
	Verify (Klaxon/W Tone/MA/RAPID ΔP lt - on)	206	MASTER ALARM pb/lt - push (Klaxon/W Tone/MA/RAPID ΔP lt-off)
206	MASTER ALARM pb/lt - push Verify (Klaxon/W Tone/C Tone/MA/ RAPID ΔP lt - off)	206	CLEAR sw - CLEAR (RECALL - off)
206	CLEAR sw - CLEAR (RECALL - off)		3 Repeat step 1&2 for ΔP TEST sw - 2

1-46

DATE 7/6/73

SPT

DATE 7/6/73

23:40

PLT

PGA XFER/DRYING

- 1 Disconnect comm carrier from CWG adptr & stow in appropriate accessory bag attached to helmet bag
Verify OBS/BIOBELTS in accessory bags
- U2 Obtain 3 Lt wt HDSTs & attach to CWG adptrs
Verify/perform helmets & IV gloves installed on 3 PGA's
- U2 2 Obtain PGA bag for xfer to OWS
- 3 Stow PGA's (3) with accessory bags attached in OWS FWD comp't using portable foot restraints (left S149 EXP, right of S149 EXP, and near M509)
Restrain PGA bag in PLT sleep compt (for return clothing xfer)

1-47

DATE _____

DATE _____

WARNING SYSTEM TEST

CDR

CAUTION SYSTEM TEST

206 WARN TEST sw - 1 (W Tone/MA/RECALL/ 206
all warn lts/C/W POWER lt - on)
MASTER ALARM pb/lt - push (W Tone/
MA - off)
Verify all warn lts - on
206 WARN TEST sw - OFF (C/W PWR lt-off) 207
Verify all warn lts - off
206 Verify MEMORY RECALL 206
CLEAR sw - CLEAR (RECALL - off)
Repeat test for WARN TEST sw - 2

CAUT TEST sw - 1 (C Tone/MA/RECALL/
all caut lts except CNDST TANK
ΔP - on)
MASTER ALARM pb/lt - push (C Tone/MA
- off)
Verify all caut lts except CNDST
TANK ΔP & SIEVE OUT PPCO2 HI - on
CAUT TEST sw - OFF (All caut lts-off)
Verify MEMORY RECALL
CLEAR sw - CLEAR (RECALL - off)
Repeat test for CAUT TEST sw - 2

1-48

DATE 7/6/73

DATE 7/6/73

SPT

PLT

- D424 4 Unstow PGA hanger strap & snap
around grid above suit donning
station (left of S149 EXP)
Connect PGA hanger strap to D-ring
on helmet bag
Tighten hanger strap to hold PGA
erect in foot restraints
Verify pressure sealing & restraint
zippers are closed
Remove all damp items except OBS/BIO-
BELT from accessory bag & hang to dr:
- D424 5 Obtain EXHAUST CONN & connect to
blue connector on PGA
Remove suit drying hose from dummy
hose connector in compartment and
attach to red O2 connector on PGA
- D424 Disconnect high-power accessory
cable from dummy connector in
compartment
Blower unit sw - OFF (verify)
cb Blower unit - closed (verify)
- 531 Remove tethered receptacle cap from
HI PWR ACC OUTLET and connect high-
power accessory cable
Blower unit sw - ON (10 hours for
suit drying)
Obtain OBS/BIOBELT from accessory
bag
- 1-49

CM STWG RECONFIG

CM STWG RECONFIG

23:55

CM STOWAGE RECONFIG

- 1 Obtain 1 PLENUM BAG from below LBNPD and stow in EXP comp't on C&D panel handrail
Obtain 2nd PLENUM BAG (1/2 full from SL-2) from below +Z T027 and stow on F557
- 2 Obtain TAPE RCDR's (2) in LCG bags from TOP of A2 & A7
Temporarily stow 1 TAPE RCDR in STS near AM TAPE RCDR module
Xfer to D438 locker, remove defective TAPE RCDR & place in PLENUM BAG
Remove new TAPE RCDR from LCG bag, place LCG bag in PLENUM bag and stow new TAPE RCDR in D438

CDR

- 3 Obtain Parasol (TOP A7,8,9) & T027 ROD BAG Assembly with T025 EVA BRKT attached (TOP A4,5,6) and xfer to OWS FWD comp't
Remove T025 EVA BRKT & secure to side of F502A using tape
Secure Parasol & T027 ROD BAG assembly on side of FWD comp't FOOD FREEZER using equipment restraints
- 4 Obtain ERGOMETER RESTRAINT RODS & SUS HEATER (TOP A4,5,6) & xfer to OWS
Stow SUS HEATER in D436
Temporarily restrain ERGOMETER RESTRAINT RODS near ERGOMETER
- 5 Relocate TV ASSEMBLY in CM RH window as follows:
Stow TV Camr Mount & CSM PWR Cable in R13

Xfer TV Camr, Zoom Lens, MONITOR & MONITOR Cable to OWS & install at F7 using universal mount

1-50

DATE 7/6/73

DATE 7/6/73

SPT

23:55

CM STOWAGE RECONFIG

Assist CDR

PLT

- H832 6 Obtain OBS electrode kit
Obtain wet wipe from electrode kit
Remove sponge pads on probes of
OBS/BIOBELT
Clean probes with wet wipe
Secure OBS electrode kit to snaps
in WMC
- 7 Obtain OBS/BIOBELT bag from appropriate crew preference locker (S908, S920 or S930)
Place OBS/BIOBELT in bag with electrodes on the outside, & snap bag in sleep comp't

00:10

CM STOWAGE RECONFIG

Assist CDR

1-51

DATE _____

DATE _____

00:40

CDR

01:00

EVENING STATUS REPORT PREP

Obtain following data:
FOOD - CSM SYS C/L S/8
H2O GUN - CSM SYS C/L S/8
Medication used
PHOTO LOG: 16mm
HDC frames remaining
STWG DEVIATIONS
INOPERABLE EQPT

DINNER

NOTE: If CM H2O reqd
CAB REPRESS vlv - CLOSE (CCW)
MAIN REG (2) - OPEN
After H2O obtained
MAIN REG (2) - CLOSE
CAB REPRESS vlv - OPEN (CW)

Log menu deviations (CSM SYS C/L -
S/8)

01:25

EVENING STATUS REPORT

1-52

DATE 7/6/73

DATE 7/6/73

SPT

01:00

DINNER

NOTE: If CM H2O reqd
CAB REPRESS vlv - CLOSE (CCW)
MAIN REG (2) - OPEN
After H2O obtained
MAIN REG (2) - CLOSE
CAB REPRESS vlv - OPEN (CW)

Log menu deviations (CSM SYS C/L -
S/8)

PLT

01:00

DINNER

NOTE: If CM H2O reqd
CAB REPRESS vlv - CLOSE (CCW)
MAIN REG (2) - OPEN
After H2O obtained
MAIN REG (2) - CLOSE
CAB REPRESS vlv - OPEN (CW)

Log menu deviations (CSM SYS C/L -
S/8)

★ BAT B CHRGR

02:00

CDR

★
BAT B CHRGR

CM3 1 BAT CHARGE - OFF
CM5 cb BAT RLY BUS BAT A - close
CM101 SYS TEST - 2B (BAT COMPT PRESS <2.3)
 *If >2.3 notify STDN *
 *If ~0 notify STDN *
CM252 * BAT VENT vlv - CLOSED*
 SYS TEST - 3B (BAT RLY BUS)

CM5 2 MAIN BUS TIE B/C - OFF (verify)
 cb BAT RLY BUS BAT B - open
CM275 cb BAT BUS A PYRO BAT A-open(verify)
 cb BAT BUS B PYRO BAT B-open(verify)
 cb BAT BUS A BAT C - open (verify)
 cb BAT BUS B BAT C - open (verify)
CM3 DC IND sel - BAT CHARGER
 BAT CHARGE - B
 DC VOLTS - 37.5-39.5 vdc

1-54

DATE 7/6/73

DATE 7/6/73

SPT

02:00

SLEEP COMPARTMENT ACT

- D414 1 Obtain SLEEP RESTRAINT BODY STRAP 203
MODULE (1) (includes 3 straps/
crewman) 228
- 2 Unclip SPT sleep restraint frame and
reposition as required to provide 220
access to stowage compartment be-
hind the SPT sleep restraint 203
- 3 Obtain the following & temporarily
restrain 1 set in each sleep compt
towel holder:
- Sleep restraint headrest cover
(3) (S903)
 - Sleep restraint top blanket
(3) (S903)
 - Sleep restraint bottom blanket
(3) (S901)

PLT

02:00

★ BED 1 BAKEOUT INITIATION

- 1 MOL SV A VENT HTRS sw - ON
BED 1 man vlv - DESORB ("T" handle)
Stow "T" handle
Close MOL SV A MANUAL INTERCONNECT
access door
MOL SV A VENT vlv - OPEN
- 2 MOL SV DISP sw - SV A (verify)
MOL SV A BAKEOUT HTRS sw - BED 1
Set portable timer for 45 min

1-55

★BED 1 B/O INIT

★BED 1 B/O INIT

02:05

CDR

POTABLE WATER CHLORINATION

CM352 1 POT TK IN vlv - OPEN
Check WASTE TK qty: if <15%, no
chlorination if evaporators
operating
Check POT TK qty: if >90%, withdraw
8 oz of water

B7 2 Unstow chlorination unit
B1 Obtain tissue to wipe any chlorine
leaks

CM352 3 Remove chlor port cap B7
Attach needle assembly to injection
port
Insert chlorine ampoule (red) into
casing
Connect knob assembly & rotate (CW)
until piston contacts ampoule
firmly

Install ampoule assembly on needle
assembly (push & turn CW)
Rotate knob (CW) until ampoule is
empty (~3-1/2 turns) (1-3/4 turns
for half empty if H2O quantity
<50%)
Disconnect ampoule assembly from
needle assembly
Rotate knob CCW & stow used ampoule
Repeat above steps with buffer
ampoule (brown)
Wait 10 min & remove ampoule of H2O
by slowly rotating knob (CCW)
three turns
Replace chlorine port cap
Stow chlorination unit
Do not drink for 30 min

1-56

DATE 7/6/73

DATE 7/6/73

SPT

- 4 Reposition SPT sleep restraint frame and clip to grid
- 5 Configure 3 sleep compt's as follows:
 - Position top blanket on sleep restraint frame & zip to frame
 - Install 3 body straps on sleep restraint frame
 - Position bottom blanket in sleep restraint frame with zippered pouch at bottom & zip to frame
 - Partially zip headrest cover to sleep restraint frame
 - Obtain headrest insert:

<u>CDR</u>	<u>PLT</u>	<u>SPT</u>
S932	S922	S910
 - Place headrest insert inside headrest cover & zip closed

02:05

PLT

SLEEP COMPARTMENT ACT

Assist SPT

1-57

DATE _____

DATE _____

02:20

CDR

PRESLEEP

Assist SPT with sleep restraint
installation (See 1-55)

03:00

SLEEP

1-58

DATE 7/6/73

DATE 7/6/73

SPT

PLT

02:30

02:30

PRESLEEP

PRESLEEP

Stow loose objects in OWS
ICOM BOX: CDR - A SLEEP
SPT - A SLEEP
PLT - A ON

1 Obtain PGA bag from PLT SLEEP COMPT,
fill with following clothing &
xfer to CM:
Jacket & boots for each crewman

616

Configure OWS lights:
LIGHTING DOME 7•8 sw - ON
LIGHTING EXP COMPT 13•14 sw - ON
SLEEP COMPT sw - ON

S912
S924
S934
D412

COUNTER PRESSURE GARMENT (3)
Restrain PGA bag to headrail in CM

03:00

2 Stow loose objects in CM/MDA/AM
Check teleprinter for paper
Configure AM/MDA lights:
LIGHTING PANEL sw - FIXED
LIGHTING MDA FORWARD 1•3 sw - ON

SLEEP

207

02:45

★BED 1 TEMP VERIF

203

When mol sv bed 1 heater on for
45 min (Portable timer tone - on)
MOL SV BED 1 ind 360°F to 410°F

03:00

SLEEP

1-59

★BED 1 TEMP VERIF

DATE _____

DAY 2

11:00

POST-SLEEP

TIME (MIN)	CDR	SPT	PLT
11:05	RECONFIGURE SIA	RECONFIGURE SIA	RECONFIGURE SIA
11:15	PERSONAL HYGIENE (SEE BELOW)	VOICE RECORD PRD's (3) (LOCATION & READOUT) UPDATE: STDN VERIFY NO CHANGE TO ATM GND CMD STATUS (SEE 2-9)	BED 2 BAKEOUT INIT (SEE 2-3) OBTAIN TELEPRINTER PADS
11:25	BMMD LOG _____ _____	PERSONAL HYGIENE (SEE BELOW)	
11:30	MEAL PREP NOTE: If CM H2O read CAB REPRESS vlv - CLOSE (CCW) MAIN REG (2) - OPEN After H2O obtained MAIN REG (2) - CLOSE CAB REPRESS vlv - OPEN (CW)	BMMD LOG _____ _____	PERSONAL HYGIENE (SEE BELOW) BMMD LOG _____
11:35	BREAKFAST		BED 2 TEMP VERIF (SEE 2-3)
12:30			

2-1

DATE 7/6/73

DATE

PERSONAL HYGIENE

Last usage of UCTA, perform the following:

- A6 Use UCTA for postsleep urination
- Obtain UCTA/SAMPLE BAG adapter and attach to UCTA
- Stow UCTA in PORTABLE WASTE STOWAGE CONTAINER

Obtain OWS urine bags stowed in bag attached to couch & mark CDR, SPT, PLT (to be used for remaining day 2 urine collection)

Remove green vent cap from OWS urine bag & discard
Return bag to stowage below couch

DATE 7/6/73

SPT

PLT

11:05

★ BED 2 BAKEOUT INITIATE

- 203 1 MOL SV BED 1 ind - 360°F to 410°F
MOL SV A BAKEOUT HTRS sw - OFF
- 228 BED 2 man vlv - DESORB (T-handle)
Stow T-handle
Close MOL SIEVE A MANUAL INTERCONNECT
access door
- 2 MOL SV A BAKEOUT HTRS sw - BED 2
Set portable timer for 45 minutes

★ BED 2 TEMP VERIF

- 1 After bed 2 heater on for 45 min
(portable timer tone):
- 203 MOL SV BED 2 ind - 360°F to 410°F
Set portable timer for 5 hrs 15 min
for bed 2 bakeout & velcro timer
to MOL SV A cover
- 2 After bed 1 heater off for a minimum
of 15 min:
- 228 BED 1 man vlv - ADSORB (T-handle)
Wait 30 sec, then BED 1 man vlv -
STORAGE (T-handle)
Stow T-handle
Close MANUAL INTERCONNECT access
door
- 2-3

★ BED 2 BAKEOUT
★ BAT A CHRG

★BED 2 BAKEOUT

★BAT A CHRG

12:30

CDR

★BAT A CHRG

CM5 1 BAT CHARGE - OFF at 39.5 vdc or
100% recharge
cb BAT RLY BUS BAT B - close
CM101 SYS TEST - 2B (BAT COMPT PRESS <2.3)
*If >2.3 notify STDN *
*If ~0 notify STDN *
BAT VENT vlv - CLOSED
SYS TEST - 3B (BAT RLY BUS)

CM5 2 MAIN BUS TIE A/C - OFF (verify)
cb BAT RLY BUS BAT A - open
CM275 cb BAT BUS A PYRO BAT A - open
(verify)
cb BAT BUS B PYRO BAT B - open
(verify)
cb BAT BUS A BAT C - open (verify)
cb BAT BUS B BAT C - open (verify)
CM3 DC IND sel - BAT CHARGER
BAT CHARGE - A
DC VOLTS - 37.5-39.5 vdc

2-4

DATE 7/6/73

DATE 7/6/73

SPT

12:30

ATM C&D COOLANT LOOP ACT

- M202 1 Rotate M202 stowage container toward condensate module
Verify C&D coolant loop reservoir bladder toward FULL end of tank (penlight)
- 203 2 ATM COOLANT PUMPS A sw - ON (LO ΔP lt - on, then off)
Rotate M202 stowage container back to normal position

PLT

12:30

WATER SAMPLE

- 1 Sample water tank 10 per F505 placard (PUMP AGITATOR HANDLE 4 times prior to sampling)
- 2 If iodine concentration:
>4.0 is acceptable iodine level
<0.5 go to water tank 2 and perform step 1 (if H2O TNK 2 <0.5, contact STDN)
<4.0 insert required amount of iodine to bring water tank 10 to 6 ppm. Present tank water volume is 100%
- 3 Voice record initial iodine concentration level & iodine injected (if req'd)

2-5

H2O SAMPLE
★IMSS XFER

H2O SAMPLE
★ IMSS XFER

12:35

CDR

★
IMSS RESUPPLY CANISTER XFER

- RHEB 1 Remove IMSS RESUPPLY CANISTER
from CM by turning mounting
screws 1/2 turn CCW
Remove IMSS thermal blanket & stow
between A8 & A9
- 2 Xfer to WDRM & stow RESUPPLY CANISTER
as follows:
Vent resupply kit by depressing
stop and turning valve lever
90° CCW
Allow kit to vent completely
Close vent valve by turning
lever 90° CW
Remove cover by lifting beta
cloth tab with tether
Remove retainer
Lift lever slowly to release
overcenter latch of retainer
coupling
Separate resupply kit into
2 halves

Remove retainer coupling from
flange of container top
half (with vent vlv & knurled
bolt)
Place container top half on hinge
side in back corner of chiller
Secure container top half on rear
wall of chiller opening
Place container bottom half on
latch side of chiller opening
Secure container bottom half on
latch side wall of chiller
opening

2-6

DATE 7/6/73

DATE 7/6/73

SPT

12:35

ATM CONSOLE ACT

Perform per p. 2-9 thru 2-12

PLT

12:50

WMC WATER ACT

- 500 1 35 PSI REG A&B tgl vlv (2) - OPEN
(verify)
- 2 Release WMC 2 hose female qd (below
water tank 8) and 2 clamps
Connect WMC 2 female qd to WATER
OUTLET qd of water tank 7
- 800 3 H2O DUMP PRESS ind - <0.7 psia
(verify)
- 831 WATER DUMP vlv - CLOSE
Disconnect WMC dump line from WATER
HEATER DUMP PORT
Connect WMC dump line to SQUEEZER
BAG DUMP qd
- FWD 4 PRESS vlv (water tank 7) - OPEN
WATER OUTLET vlv (water tank 7)
- OPEN
- WMC 5 WATER HEATER OUTLET vlv - OPEN
614 cb HSS WMC H2O HTR - close

2-7

ATM ACT
WMC H2O ACT

ATM ACT
WMC H2O ACT

12:55

CDR 232,
239

H2O SEP PLATE WETTING PREP

NOTE: The following tools are re-
quired:

3/8 blade driver bit 1B 206
8 inch extension 1C 216
Spin handle 1E

- E621 1 Obtain: long straps (2) DOME
F549 Spare condensate module
(3/8 blade driver bit, 8
inch extension, spin handle)
216
- 303 2 Restrain spare condensate module ad-
jacent to HX PLATE SERVICING qd 216
in fwd tunnel (long strap) 207
Restrain other long strap on handle 206
of MOL SV A COVER
- 230 3 HT EXCH A,B condensate isolation vlv
(2) - CLOSE
- 233 CONDENSING HT EXCH AIR FLOW vlv - A
(verify)

- 4 Repeat step 3 for mol sv B
- 5 Inform other crewmen C&W will be
triggered
CNDSATE TANK ΔP sw - enable (C tone/
MA/RECALL/CNDST TANK ΔP - on)
MASTER ALARM - push (C tone/MA - off)
CNDST TANK PRESS vlv - VACUUM
CNDST TANK H2O vlv - FILL (verify)
- 6 Connect CNDST HOLDING TANK INLET
hose to CNDST INLET port on
holding tank
- 7 When CNDST TANK ΔP stabilizes:
CNDST TANK PRESS vlv - CLOSED
CNDST TANK ΔP ind - >2.0 psi (verify)
CNDST TANK ΔP lt - off (verify)
Verify MEMORY RECALL
CLEAR sw - CLEAR (RECALL - off)

2-8

DATE 7/6/73

DATE 7/6/73

ATM CONSOLE ACTIVATION

SPT

ATM C&D CONSOLE POWER ACT

GROUND COMMAND STATUS VERIF

CONSOLE POWER DISTRIBUTION:

CAUTION

All cb's closed except:
cb LCA STATUS LTG BU 2 - open

Prior to ATM C&D CONSOLE POWER ACTIVATION,
configure switches to agree with last
ground command. Refer to Voice Update
for any changes since SL-2 configuration
for storage.

ACS sw - BUS 1
All other switches (7) -
EXP BUS 1/NUM LTG BUS (up)

H-ALPHA:

HA 1 HEATER sw - PRIM
HA 2 HEATER sw - PRIM

XUV SPECT:

MAIN PWR - ON

XUV SLIT:

MAIN PWR - ON

DISPLAYS:

DAS/ORB PHASE - BUS 1
POWER SYSTEM - BUS 1
EVENT TIME - BUS 1
ACS CNTRS - BUS 1

DATE _____

DATE _____

LIGHTING & EPS STATUS CHECK

LIGHTING:

NUMERIC sw - VAR
INTEGRAL sw - VAR (adj as desired)
LAMP TEST sel - NUMERIC

ORB PHASE:

TIME REMAINING/DIGITAL ADDRESS ind = 88-88

MONITOR:

COUNTER 1 sel - ROLL EXP, ind = 8888
COUNTER 2 sel - FSS UP/DN, ind = 8888
COUNTER 3 sel - FSS L/R, ind = 8888

LIGHTING:

Adjust NUMERIC cont as desired.
LAMP TEST sel - STATUS
ALERT/STATUS sw - VAR (adj as desired)

ALERT:

DOOR OPEN lt - ON (if in night)

SPT

POWER SYSTEM:

STATUS LIGHTS PRIM sw - SEC
STATUS LIGHTS ENABLE sw - TEST and hold
Verify CBRM STATUS lts (54) - on
(release TEST)

STATUS LIGHTS PRIM sw - PRIM
STATUS LIGHTS ENABLE - TEST and hold
Verify CBRM STATUS lts (54) - on
(release TEST)

STATUS LIGHTS ENABLE sw - ENABLE
BAT TEMP tb - gray
BAT VOLTS tb - gray
REG VOLTS tb - gray
BAT CHG tb - gray

Power Monitor sel - BUS 1

WATT-HOUR RESET sw - MAN; ind = 00000
WATT-HOUR RESET sw - AUTO

All power fail lts (6) - on
All READY/OPR lts (7) - on

2-10

DATE 7/6/73

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MASTER FLARE MODE:

X-RAY/RF lt - on
WLC ALIGN ind scale lt - X10 on
WLC SCALE sw - X1
WLC ALIGN ind scale lt - X1 on

LIGHTING:

LAMP TEST sel - ALERT 2

ALERT:

All APCS lts (10) - on

LIGHTING:

LAMP TEST sel - ALERT 1

ALERT:

All EXP & PWR lts (10) - on

LIGHTING:

LAMP TEST sel - TACS

ATTITUDE CONTROL SYSTEM:

TACS lts (6) - on

LIGHTING:

LAMP TEST sel - OFF

CONSOLE POWER DISTRIBUTION:

cb LCA STATUS LTG BU 1 - open

SPT

DAS INTERFACE CK

GROUND/DAS:

All switches (7) - ENABLE (verify)

MONITOR:

COUNTER 1,2,3 sel - DAS

DAS:

PWR sw - PWR BUS 1
52002E Display Format 2
52003E Display ATMDC Data
50004E GMT Time
Verify displayed time
52001E Display Format 1
Verify displayed time

Coordinate each DAS Test with STDN

10000E (Zero Tests)
20000E
30000E
40000E

10377E (Register Tests)
20377E
30377E
40377E

2-11

DATE _____

DATE _____

APCS STATUS CHECK & PANEL ACT

SPT

MONITOR:

COUNTER 1 & 2 sel - DAS

ALERT:

APCS Alert lts (6) - off

DAS:

ATTITUDE CONTROL SYSTEM:

EPEA sw - PRIM (verify)

EPC ROLL RSLVR - PRIM (verify)

EPC 800 HZ - PRIM (verify)

FSS sw - PRIM (verify)

EPC RATE GYRO sw (2) - PRIM (verify)

TACS sw's (6) - INHIBIT; lts

(6) - off

MODE tb - SI

SR/SS tb - CMP

FSS DOOR tb - bp

MOMENTUM DUMP: AUTO GG tb - gray or ACT

: CAGE tb - gray

CMG SYSTEM tb's (3) - gray

RATE GYRO MON sw's (3) - as req'd

RATE GYRO MONITOR tb (3) - gray

SUN ACQ: SENSOR tb - gray

: SUN PRESENT tb - gray or bp

(as approp)

CMPTR tb - SEC

CMPTR sw - AUTO (verify)

52010E (Inhibit)

50002E (CMG Auto Reset)

52003E

50011E (Status Word 1)

CNTR 1 - 1133

CNTR 2 - 1100

52003E

50012E (Status Word 2)

CNTR 1 - OXXX (RG CONFIG)

CNTR 2 - 0000

52003E

50013E (Status Word 3)

CNTR 1 - 0002

CNTR 2 - 3100

52003E

50014E (Status Word 4)

CNTR 1 - 0000

CNTR 2 - XX00 (TACS PULSE)

52003E

50015E (Status Word 5)

CNTR 1 - 0000 (ACHERNAR)

0010 (CANOPUS)

0020 (ACRUX)

CNTR 2 - 0000

COUNTER sel (3) - OFF

2-12

DATE 7/6/73

	<u>13:20</u>	CDR 4	F 50 25 00016 PRO
★	<u>P50-IMU/ATM ORIENT DETERMINATION</u> <u>(OPT 2)</u>		5 F 01 71 000DE Load Star code PRO
	NOTE: Use SS & ST and coordinate with SPT		6 F 06 14 Load recorded ATM STAR TRKR ANGLES PRO
1	V37E 50E		
2	F 04 06 R1 00012 R2 00002 PRO	7	F 06 23 DOCKING ANGLES R1 _____ (145) R2 _____ (180) R3 _____ (0) PRO
3	F 51 Verify: OA in Solar Att & holding : star acquired by star tracker Have SPT record STAR TRKR GMBL angles at time of "MARK" MARK Record STAR & STAR TRACKER GMBL angles STAR R1 _____ (OG-arc min) R2 _____ (IG-arc min)	8	F 37

2-14

DATE 7/6/73

DATE 7/6/73

SPT

13:20

★ ASSIST CDR WITH P50 & P52

STAR ACQUISITION

1 ATTITUDE CONTROL SYSTEM:
MODE tb - SI

MONITOR:

COUNTER 1,2,3 sel - $\emptyset X, \emptyset Y, \emptyset Z$;
ind <001.0 deg (verify)
COUNTER 1 sel - STAR TCK OUTER
GIMBAL (ARC MIN)
COUNTER 2 sel - STAR TCK INNER
GIMBAL (ARC MIN)
COUNTER 3 sel - ORBITAL PLANE
ERROR (XXX.X deg)

WDRM H2O ACT

★ P52

PLT

13:20

WARDROOM WATER SYSTEM ACT

- FWD 1 Connect WARDROOM 1 hose to water outlet of water tank 10
- WDRM 2 Remove and stow table top overhead on grid
WATER HTR OUTLET vlv - OPEN (verify)
WATER CHILLER OUTLET vlv - OPEN (verify)
HOT WATER (DISPENSE/CHARGE) vlv - DISPENSE (verify)
COLD WATER (DISPENSE/CHARGE) vlv - DISPENSE (verify)
- 700 H2O DUMP PRESS ind <0.7 psia (verify)
E621 Obtain long strap (T)
- F505 3 Perform iodine injector filling per F505 placard (40 units of iodine)
- 4 Screw Iodine INJ 1 on IODINE INJ PORT (PWT)

2-15

WDRM H20 ACT

★ P52

13:30

CDR 5

F 50 25 00016
PRO

★
P52 IMU REALIGN (OPT 3)

6 F 01 71 002DE
PRO

NOTE: Use SS & ST and coordinate
with SPT

7 F 06 14 Load recorded ATM STAR TRKR
ANGLES
PRO

1 F 04 06 V37E 52E
R1 00001
R2 00003
PRO

8 F 01 70 00146
PRO

2 F 50 25 00015
ENTR

9 F 51 MARK

3 F 01 70 002DE
Load STAR code
PRO

10 F 50 25 00016
PRO

4 F 51 Verify STAR TRKR locked on
Have SPT record STAR TRKR GMBL
angles at time of "MARK"
MARK
Record STAR TRKR GMBL angles
R1 _____ (OG-arc min)
R2 _____ (IG-arc min)

11 F 01 71 00146
PRO

12 F 06 05 MARKING ERROR
R1 _____
PRO

2-16

DATE 7/6/73

DATE 7/6/73

SPT

2 ATTITUDE CONTROL SYSTEM:

STAR TRACK ACQ sw - MAN; tb - MAN 500

STAR TRKR PAD

STAR _____

OG _____

IG _____

DAS:

Key 52011E (Enable)
50004E (Str Trkr Cont)
52011E (Enable)
50011E (Orb P1 Err Updt)
52012E (Select System)
5000XE X = 0, ACHERNAR (A)
X = 1, CANOPUS (C)
X = 2, ALPHA CRUX (X)

MANUAL POINTING CONTROL:

MAN PTG ENABLE sw - ENABLE; tb-STR
MPC - Manipulate gimbals to OG, IG

PLT

5 PRESSURIZATION vlv (PWT) - CLOSED
(verify)

Connect NITROGEN FILL hose qd (2) to
35 PSI N2 PORTABLE WATER TANK PRESS
PORT qd and PRESS PORT qd (PWT)
N2 PRESS ind (PWT) - 20 ± 2 psig
(verify), If not pressurize tank
to 20

Disconnect WARDROOM 1 hose from
WARDROOM WATER qd

Connect WARDROOM 1 hose to WATER
OUTLET qd (PWT)

2-17

DATE _____

DATE _____

13	F 06 93	TORQUING ANGLES	CDR
		R1 _____	
		R2 _____	
		R3 _____	
		V32E _____	
14	F 50 25	00014	
		ENTR	
15	F 37	00E	
16		Stow optics	

2-18

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SPT

ATTITUDE CONTROL SYSTEM:
STAR TRACK ACQ sw - AUTO;tb - AUT
STAR TRACK SHUTTER tb - OPN

MANUAL POINTING CONTROL:
MAN PTG tb - bp or EXP

*ALERT: *

* ACS 1t - on *

* *

*DAS: *

* Key 52003E (ATMDC Data) *

* 50001E (ALERT Conditions)*

*MONITOR: *

* COUNTER 1 sel - DAS; ind-4XXX* *

* *

*Repoint Star *

* Tracker *

ATTITUDE CONTROL SYSTEM:
STAR TRACK SHUTTER tb - STR
(may req 25 sec)
Notify CDR of STAR TRKR lock - on

MONITOR:
COUNTER 3 - note value _____ 500
2-19

PLT

6 PRESS vlv (water tank 10) - OPEN
WATER OUTLET vlv (water tank 10) -
OPEN

NOTE: When PWT N2 press ind=25 psig,
close PWT WATER OUTLET vlv

WATER OUTLET vlv (PWT) - OPEN
Monitor N2 PRESS ind (PWT) until
pressure = 25 psig then:
WATER OUTLET vlv (PWT) - CLOSE
IODINE INJ 1 vlv - OPEN
IODINE INJ PORT vlv (PWT) - OPEN
Rotate IODINE INJ 1 rear cap cw to
inj iodine into portable water
tank
IODINE INJ PORT vlv (PWT) - CLOSE
IODINE INJ 1 vlv (PWT) - CLOSE
WATER OUTLET vlv (PWT) - OPEN un-
til filled then CLOSE (~35 psig)
WATER OUTLET vlv (PWT) - CLOSE
PRESSURIZATION vlv (PWT) - OPEN
Verify N2 Press ind (PWT) - 35
+ 2 psig
35 PSI REG A & B tg1 vlv (2) -
CLOSE
PRESS vlv (water tank 7) - CLOSE

★E-MOD
G&N PWR DN

★ E-MOD
G&N PWR DN

13:45

★
E-MEMORY DUMP

- 1 Verify:
STDN COVERAGE
Hi bit rate
- 2 V74E (Wait 42 sec)

13:47

REPORT

N23 & N93 angles to STDN

CDR

13:50

CSM G&N/SCS POWER DOWN

SCS POWER DOWN

CM1 EMS FUNCTION - OFF (Verify)
EMS MODE - STBY (Verify)
FDAI SCALE - 5/1 (Verify)
FDAI SELECT - 1
FDAI SOURCE - CMC
ATT SET - GDC (verify)
MAN ATT (3) - RATE CMD
ATT DB - MAX
RATE - HIGH

CM8 AUTO RCS SEL A1,D2,A3,C4,B3,D4(6)-
OFF (verify)
AUTO RCS SELECT (10) - MNA (Verify)

CM1 THC PWR - OFF (Verify)
RHC PWR NORMAL (2) - OFF (Verify)
RHC PWR DIRECT (2) - OFF (Verify)
SC CONT - SCS
CMC MODE - FREE (Verify)
BMAG MODE (3) - RATE 1
SCS TVC (2) - RATE CMD (Verify)
.05G sw - OFF (Verify)
 α /Pc sw - Pc (Verify)
TVC GMBL DRIVE (P&Y) - AUTO (verify)

2-20

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SPT

MANUAL POINTING CONTROL: 500
MAN PTG ENABLE sw - INHIBIT;tb-bp 500
Record ATM STAR TRKR ANGLES at
time of CDR "MARK": F505
 OG (ARC MIN)
 IG (ARC MIN)
Report STAR & ANGLES to CDR D438

13:45

CM URINE/LiOH/FECAL BAG XFER

1 Obtain urine bag (3) (one under each
couch) and verify each is marked
per crewman and place in TSB with
LiOH canisters
Obtain Portable Water Stowage Con-
tainer (with used contingency
bags & UCTA's) & TSB with LiOH PWT
canisters
Xfer TSB and Portable Waste Stowage
container to WMC
WMC 2 Snap waste container near waste
processor
Attach TSB to WMC door snaps 2-21

PLT

Loosen and remove threaded cap on
gas bleed port
PRESS BLEED vlv-OPEN (3 turns CCW)
Monitor N2 PRESS ind (PWT) - 0 psig
Stow IODINE INJ 1
7 WATER OUTLET vlv (water tank 10) -
CLOSE
Obtain water system equipment con-
tainer
Obtain H2O gun/dispenser squeezer bag
adapter & H2O gun drinking tips(3)
from water system equip container
and stow in pocket
Obtain sterilization fitting from
container
Secure container to grid floor near
PWT (long strap)
Disconnect WARDROOM 1 hose from
WATER OUTLET qd (PWT)
Connect sterilization fitting to
WATER OUTLET qd (PWT)
Disconnect WARDROOM 1 hose from WATER
OUTLET qd (water tank 10)
Connect WARDROOM 1 hose to sterili-
zation fitting
Connect WARDROOM 1 hose to WARDROOM
WATER qd

DATE _____

DATE _____

CM7	FDAI/GPI PWR - OFF	CDR	<u>IMU POWER DOWN</u>
	BMAG 1 PWR - OFF		
	BMAG 2 PWR - OFF	CM100	G/N IMU PWR - OFF
	TVC SERVO PWR (2) - OFF (Verify)		*ISS warning*
	LOGIC PWR 2/3 - OFF		*RSET *
	SCS ELEC PWR - OFF		
	SIG COND/DRIVER BIAS PWR (2) - OFF		<u>P06 - CMC POWER DOWN</u>
CM8	cb SCS LOGIC BUS 1/2, 3/4, 1/4-open		V37E06E
	cb DIR ULL (2) - open (verify)		F 50 25 00062 CMC PWR DN
	cb SCS A/C, B/D ROLL MNB (2)-close		PRO, hold (~5 sec) until STBY
	PITCH, YAW MNB (2) - close		lt - on
	cb SCS A/C, B/D ROLL MNA (2)-open		(repeat, if necessary)
	(verify)		
	PITCH, YAW MNA (2) - open (verify)		<u>OPTICS POWER DOWN</u>
	RHC, THC - neutral, locked (verify)		
CM201	C/W INPUT 10A,10B - INHIBIT	CM122	OHC - drive trun <10°
			OPT ZERO - ZERO
		CM100	G/N PWR OPTICS - OFF
			G/N LTS - OFF

2-22

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SPT

DATE 7/6/73

PLT

706 8 WATER OUTLET vlv (PWT) - OPEN
Wait 3 minutes then:
WATER DUMP vlv - CLOSE
Set portable timer for one hour

9 NOTE: The following tools are re-
quired:
5/16 wrench 1D

Install H2O gun drinking tip on all
3 H2O guns (5/16 open end wrench)

2-23

DATE _____

DATE _____

14:00

CDR

CM CONDENSATION BLANKET INSTALL

M167 Unstow condensation blanket
CM16 e-p SPECT - ON (verify)
UTIL PWR - OFF (verify)
CM227 SCI INST - PWR (verify)
RHUEB Install condensation blanket in CM

14:05

CM EVAP RECONFIG

CM2 RAD MAN sel - RAD 1 (verify)
RAD FLOW CONT PWR - MAN SEL
CM399 AUX GLY EVAP INLET TEMP - MAX (CCW)
CM163 GLY EVAP - TEMP IN HI

2-24

DATE 7/6/73

DATE 7/6/73

SPT

PLT

14:00

URINE/FECAL COLLECTOR ACT

- WMC 1 Install fecal bag (H833) per FECAL BAG RESUPPLY
- WMC 2 Open URINE DRAWER 1
Verify URINE COLLECTION HOSE and RECEIVER installed in drawer, if not, perform URINE DRAWER RESUPPLY - URINE COLLECTION HOSE AND RECEIVER per decal steps 2,3 and 4
Remove URINE BAG BOX from drawer
Obtain CDR urine bag from portable waste storage container and place in URINE BAG BOX
Install URINE BAG BOX in drawer & attach urine bag to separator
- 3 BUS 1 BLOWER/SEPARATOR 1 sw - ON
Verify air flow through fecal collector seat and urine receiver
BUS 1 BLOWER/SEPARATOR 1 sw - OFF
Verify separator still operating

2-25

DATE _____

DATE _____

14:10

SUIT DRYING (2nd SUIT)

- | | | | |
|------|---|------|--|
| D424 | 1 Blower unit sw - OFF
Disconnect suit drying hose from suit connector
Remove EXHAUST CONN from suit and stow in pocket
Remove comm carrier, wristlets and/or comfort gloves that were air dried and stow in accessory bag | CDR | 3 Connect PGA hanger strap to D-ring on helmet bag
Connect EXHAUST CONN to blue connector on PGA
Connect suit drying hose to red 02 connector on PGA
Verify pressure sealing & restraint zippers are closed |
| | | D424 | Blower unit sw - ON
Remove damp items from accessory bag & hang to dry
Obtain OBS/BIOBELT |
| | 2 Disconnect PGA hanger strap from D-ring on helmet bag and from overhead grid
Snap strap around overhead grid above PGA stowed to the right of S149 exp | WMC | 4 Obtain wet wipe from OBS electrode kit in head
Remove sponge pads from probes on OBS/BIOBELT
Clean probes with wet wipes
Obtain OBS/BIOBELT bag from appropriate locker (S908, S920 or S930)
Place OBS/BIOBELT in bag with electrodes on the outside and snap bag in sleep compt |

2-26

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SPT

4 Repeat steps 2&3 for urine drawer 2
and SPT's urine bag

5 Repeat steps 2&3 for urine drawer 3
and PLT's urine bag

817 6 cb PROCESSOR 1-6 (6) - close
818 URINE DUMP vlv - CLOSE (verify)
800 WASTE PROCESSOR VACUUM VENT vlv -
OPEN
WASTE PROCESSOR EXHAUST PRESS ind -
decrease

PLT

14:20

H2O SEP PLATE SERVICING

- M168
(side)
- 1 Obtain: towel
HX PLATE SERVICING ADAPTER
with HX PLATE SERVICE
HOSE attached
HX PLATE SERVICE HOSE
(without adapter)
 - 2 Remove cap on spare condensate
module DUMP qd
Connect hose with adapter to DUMP qd
 - 303 Remove cap on HX PLATE SERVICING qd
and connect hose
 - 3 Remove MOL SIEVE A(B) cover and re-
strain (long strap)
 - 203 MOL SV A(B) FANS PWR sw - OFF
 - 4 CAUTION: H2O separator plates are
fragile
- Disconnect qd from one MOL SV A con-
densing heat exchanger A H2O sep-
arator plate
- 2-27 Loosen Calfax 6 and remove plate

DATE _____

DATE _____

14:30

CDR 225

3 02/N2 CONTR: sel - 1

MON sel - 2

Place used sensors (3) in empty
containers & stow containers in
M301

Mark containers (red tape)

PP02 SENSORS REPLACEMENT

1 Obtain:

- M144-2 Red tape (3 pieces)
- M301 02 Replacement sensors (3) (in large containers)

225 2 02/N2 CONTR: sel - OFF

MON sel - OFF

Rotate sensors (3) (L to R) and
remove from side of 02/N2 control
panel and temporarily stow in
pocket

Voice record S/N of sensors and the
controller positions (1,2,3) in
which they are placed

<u>POS</u>	<u>S/N</u>
1	_____
2	_____
3	_____

Install replacement sensors (3)
(align index mark with R, insert
sensor fully & rotate "R" to "L")

2-28

DATE 7/6/73

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SPT

14:45

★ UCTA SAMPLING

800 1 FAN sw - BUS 1

H835 Obtain disposal bag and snap on H832
216

WMC 2 Obtain UCTA from PORTABLE WASTE
STOWAGE CONTAINER
Mix UCTA contents by vertically
shaking UCTA through approx 12
inch strokes for 20 cycles
Attach UCTA to handrails above
fecal collector using velcro with
hose near sampler
CRIMPER/CUTTER plunger - STOW
(verify)

H823 Obtain 1/2 sample bag
Manually compress bellows and re-
move green vent cap
Remove tape from sample bag
Log data on sample bag

PLT

5 Install plate on adapter and tighten
Calfax (6)
Connect hose attached to Pnl 303 to
plate

NOTE: Absolute value of gage read-
ing should be approximately
same as CNDST TANK ΔP ind

SPARE 6 CNDST TANK PRESS vlv - PRESS(verify)
TANK CNDST TANK H2O vlv - DUMP (for 15
sec)

After 15 seconds:
CNDST TANK H2O vlv - OFF
CNDST TANK PRESS vlv - VACUUM for
2 minutes
Cycle CNDST TANK PRESS vlv to PRESS,
VACUUM then CLOSED

7 HX PLATE SERVICING ADAPTER press
ind - monitor for 2 minutes
If pressure decay ≤ 0.25 psi con-
tinue procedure
If pressure decay > 0.25 psi repeat
step 6 except place H2O vlv in
DUMP for 30 sec instead of 15 sec

2-29

★ UCTA SAMPLE
CO2 FILT REPLACE

★ UCTA SAMPLE
CO2 FILT REPLACE

14:55

CO2 FILTER REPLACEMENT

- 1 Obtain:
M144-2 Red tape (8 pieces)
- 2 Remove MOL SVB CO2 outlet (red - C/W) detector endplate
Remove filter cartridges (2) from endplate and stow in pocket
M301 Obtain dummy cartridges from containers identified with red tape
Insert dummy cartridges in endplate observing keying
Reinstall endplate
Place used filter cartridges in stowage containers & stow in M301
- 3 Remove MOL SV B CO2 inlet (blue - PNL 203, TM) detector endplate

CDR

M301

- 4 Remove filter cartridges (2) from endplate and stow in pocket
Obtain one A and one P replacement cartridge (red sensors - red endplate, blue sensors - blue endplates)
Insert replacement filter cartridges in endplate observing keying
Reinstall endplate
Place used filter cartridges in stowage containers, stow in M301 and mark containers (red tape)
- 5 Repeat step 3 for MOL SVA endplates identified as follows:
Outlet (red - C/W, PNL 203, TM)
Inlet (blue - PNL 203, TM)
Outlet (red - C/W)

2-30

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SPT
H823

- 3 Obtain UCTA/SAMPLE BAG adapter and mate to UCTA (if required)
Install sample bag in CRIMPER/CUTTER
Connect UCTA/SAMPLE BAG adapter to sample bag
Hand roll UCTA toward UCTA qd
Transfer plunger between STOW position and bottomed out position twice
CRIMPER/CUTTER plunger - 1/2 (allow sample bag to fill completely)
Rolling UCTA toward UCTA qd
CRIMPER/CUTTER handle - rotate CCW to CRIMP/CUT sample bag
Remove sample bag from CRIMPER/CUTTER
Push crimped end of tube into sample bag and place in trash bag locker (H803)
CRIMPER/CUTTER plunger - STOW
Place sampled UCTA in disposal bag on H832

WMC 4 Repeat steps 2 and 3 for remaining UCTA's

203

H803 5 Obtain sample bags and place in urine freezer (H810)

2-31

DATE _____

PLT

NOTE: If after second trial of step 6 pressure decay is >0.25 psi/2 min, remove plate from adapter
If H₂O is present, plate is cracked, mark failed plate (red tape), obtain new plate and repeat steps 5,6 & 7.
If H₂O not present recheck hose connections and valve positions per procedure

Remove hose from plate
Remove plate from adapter and install on MOL SV A(B) heat exchanger A (qd end toward CM)
Connect condensate line qd to plate

8 Repeat steps 2,3,4,5 and 6 for other H₂O separator plate on MOL SV A(B) condensing heat exchange A

9 Install MOL SIEVE A(B) cover and tighten yellow fasteners
MOL SV A(B) FANS PWR sw - PRI (SEC)

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SPT

PLT

NOTE: If either (or both) MOL SIEVE
FAN fails to start, turn fans
power sw - OFF, wait ~30 sec
& then switch ON (PRI or SEC)
Repeat if necessary

10 Repeat steps 3 thru 9 for plates
(2) on MOL SIEVE B condensing
heat exchanger A

11 Disconnect hoses from spare cndst
tank DUMP qd & Pn1 303

M168 Stow hoses & adapter

Cap Pn1 303 qd & spare cndst tank
DUMP qd

SPARE CNDST TANK H2O vlv - FILL

TANK CNDST TANK PRESS vlv - PRESS

203 Check MOL SV DEW PT ind - >47°

If dew pt > 47°F perform

CONDENSATE SYS ACT

If dew pt <47°F continue with
activation

F549 12 Stow spare condensate module and
tighten Calfax (2) (3/8 blade
driver bit, 8 inch extension &
spin handle)

2-33

DATE _____

DATE _____

15:20

CDR A7

SOP/SOMA RECONFIG

NOTE: Log S/N and press by final SOP locations as follows:

Location	S/N	Press	F554	D422
Sleep compt wall	_____	_____		
Wdrm wall	_____	_____		
F554	_____	_____		
D422	_____	_____		
MDA	_____	_____		
CM	_____	_____		

- 1 Obtain SOP's (2) and xfer to exp compt (leave SOP container in A7)
 Replace 2 Exp Compt SOP's that have lowest press, locate new SOP's on sleep compt wall and wdrm wall
 Stow SOP with lowest press
 Stow SOP with next lowest press (concave side down)
 Xfer remaining SOP to CM

- 2 Voice record S/N & Press per table

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SPT

PLT

15:15

CNDST SYS ACT

- When dew point temperature reaches
47°F:
- 216 CNDST TANK H2O vlv - FILL (verify)
CNDST TANK ΔP ind->2.0 psi (verify)
 - 230 HT EXCH A condensate isolation vlv
- OPEN
 - 232 Repeat above operation for MOL SV B

15:20

100 PPM DRAIN AND FLUSH

NOTE: Upon initiation of portable
timer tone (1 hour soak) con-
tinue wardroom water system
activation

- 700 1 H2O DUMP HTR 1t - on (verify)
- 706 WATER DUMP vlv - OPEN

NOTE: Use WASTE PROCESSOR EXHAUST
PRESSURE (Pn1 800) to monitor
waste tank pressure (max
press = .08 psia)

2-35

CNDST SYS ACT
100 PPM DRAIN

DATE 7/6/73

SPT

PLT

700 When H2O DUMP PRESS ind <2.0 psia
(~11 minutes):
706 WATER DUMP vlv - CLOSE
Set portable timer for 15 minutes
WATER OUTLET vlv (PWT) - CLOSE

2 Disconnect sterilization fitting
from WATER OUTLET port and WARD-
ROOM 1 hose and stow steriliza-
tion fitting in water system
equip container

Connect WARDROOM 1 hose to WATER
OUTLET port (water tank 10)

LBND Remove cation cartridge bypass
hose from stowage bracket

Disconnect mated qd's (2) on by-
pass hose

Connect bypass hose qd's (2)
to cation cartridge qds (2)

15:35

TRASH BAG INSTALL

F569 1 Obtain trash bags (8)

2 Install trash bag in lockers F568,
S910, S922, S931, W702, W751,
2-37 W775 & H803

DATE _____

DATE 7/6/73

SPT

15:50

PLT

H2O SYS FLUSH

1 When portable timer tone - ON:
E625 Obtain H2O MEAS DEVICE
FWD Determine water tank 10 bellows
location by running H2O meas
device along length of water
tank between marks on tank
flanges (~5-7 inches from
flange)
Mark bellows position with tape
Obtain H2O gun/dispenser squeezer
bag adapter from WATER SYSTEM
EQUIP container
WATER OUTLET vlv (water tank 10)
- OPEN

706 2 WATER DUMP vlv - OPEN

NOTE: Use WASTE PROCESSOR EXHAUST
PRESSURE (Pn1 800) to monitor
waste tank pressure (max
press = .08 psia)

2-39

H2O SYS FLUSH
CO SAMPLE

H2O SYS FLUSH
CO SAMPLE

16:00

CDR

CO SAMPLING (OWS)

- D426 1 Obtain CO DETECTOR bag w/contents
- EXP 2 Sample for CO per pump decal (exp
compt)
Voice record reading and dispose
of used vial
- D426 Restow CO DETECTOR

2-40

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SPT

PLT

H820 Set portable timer for 30 minutes
Obtain squeezer bag, attach head
to bag and rotate fully CW (head
is taped to bag)
Connect H2O gun/dispenser squeezer
bag adapter to squeezer bag
Obtain long strap
Secure squeezer bag to WDRM grid

16:00

AM TAPE RECORDER REPLACEMENT

NOTE: At first AOS, notify STDN
procedure in work

1 Obtain:

M144-2 Red tape (1 piece)
STS Replacement AM tape recorder
(stowed near AM recorder module)

204 2 INSTR SYS TAPE RCDR:
1 sel - OFF
2 sel - DATA VOICE
3 sel - EXP 2 (verify)
CONT sw - MANUAL SELECT

2-41

DATE _____

DATE 7/6/73

SPT

PLT

3 WARNING: Exercise extreme care when
in area of cold plates &
coolant lines

Unscrew Calfax on AM TAPE RCDR access
panel

Open cover & mark recorder 1 (red
tape)

Disconnect electrical cable at
bracket

Unscrew Calfax (4) on failed re-
corder

Install replacement & tighten Calfax
(4)

Connect electrical cable at bracket

Close AM TAPE RCDRS access panel &
tighten Calfax

204 4 INSTR SYS TAPE RCDR:
CONT sw - CMD
1 sel - DATA VOICE
2 sel - EXP 1

Stow failed recorder & LCG bag in
plenum bag & inform STDN replace-
ment complete

2-43

M555 XFER

M555 XFER

16:30

CDRCM100 3 UTILITY POWER - OFF

M555 XFER/ACT

- 1 Open A9 stowage container
- 2 Perform following on M555 SINGLE CRYSTAL GROWTH EXPERIMENT CONTAINER (M132):
 - LAMP TEST - LAMP TEST (observe LO TEMP lt illuminates)
 - *If no LO TEMP lt, check cb *
 - * UTILITY LEB MNB (Pnl 5) and *
 - * UTILITY POWER sw (Pnl 100), *
 - * Then inform STDN *
 - LAMP TEST - LO TEMP TEST (observe LO TEMP lt does not illuminate)
 - *If LO TEMP lt illuminates,*
 - * Inform STDN *

CAUTION: The M555 CRYSTAL GROWTH PACKAGE inside the container should be without power for no more than 50 min

- 4 Remove CRYSTAL SPECIMEN POWER CABLE from M555 CONTAINER, pull cable out of hole in A9 box and disconnect cable from Pnl 100
Stow cable in A7
Reconnect dust cover

NOTE: Do not release CALFAX fasteners on container

- 5 Remove M555 CONTAINER from locker A9
Xfer M555 launch brkts (5) & retention straps (2) to A7
Close A9
- 6 Transport M555 CONTAINER to MDA
Mount container on M512 mounting panel
Connect power cable to container
cb CRYSTAL GROWTH HEATING PAD AM
BUS 1 - CLOSE
- 7 Repeat step 2

2-44

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SPT

16:30

FECAL PROCESSING

1 Obtain used fecal bags (4 max) from portable waste stowage container
Weigh and process fecal matter
If portable waste stowage container is empty, xfer to CM and stow in U1

706

PLT

16:30

WARDROOM H2O SYS BLEED

NOTE: When portable timer tone - ON, (30 min flush) continue with wardroom water bleed

1 Portable timer tone - ON
WATER DUMP vlv - CLOSE

500

Determine WT 10 bellows location & verify bellows has moved ~3 inches (H2O MEAS DEVICE) (If movement <2.5 inches, do not continue & notify STDN)

PRESS BLEED vlv - CLOSE (CW)
Install & tighten threaded cap on gas bleed port

35 PSI REG A tgl vlv - OPEN

35 PSI REG B tgl vlv - OPEN

PRESS vlv (water tank 7) - OPEN

PRESS vlv (water tank 6) - OPEN

F505

Obtain Water Sampler

2-45

DATE _____

DATE 7/6/73

SPT

PLT

E625 2 Restow H2O MEAS DEVICE
Connect water chiller dump line
to DUMP LINE STOWAGE
Connect water heater dump line
to DUMP LINE STOWAGE
706 WATER DUMP vlv - OPEN
WDRM 3 Obtain squeezer bag from grid floor
Connect H2O gun/dispenser squeezer
bag adapter to HOT wardroom H2O
dispenser valve
HOT volume select - 6 oz
Repeat 3 times:
HOT DISPENSE/CHARGE vlv - CHARGE
HOT DISPENSE/CHARGE vlv - DISPENSE
HOT wardroom H2O dispenser vlv -
depress
HOT volume select - LOCK
Remove H2O gun/dispenser squeezer
bag adapter
Connect H2O gun/dispenser squeezer
bag adapter to COLD wardroom H2O
dispenser valve
COLD volume select - 6 oz

2-47

DATE _____

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PLT

Repeat 3 times:

COLD DISPENSE/CHARGE vlv - CHARGE

COLD DISPENSE/CHARGE vlv - DISPENSE

COLD wardroom H2O dispenser vlv -
depress

COLD volume select - LOCK

- W742 4 Obtain EVENING STATUS REPORT
Perform following for all 3 H2O guns:
Attach H2O gun/dispenser squeezer
bag adapter to H2O gun resupply
Repeat 6 times:
H2O gun trigger - rotate
H2O gun trigger - release
Remove H2O gun/dispenser squeezer
bag adapter from H2O gun resup-
ply
Log initial water gun readings in
EVENING STATUS REPORT
Remove H2O gun/dispenser squeezer
bag adapter from squeezer bag
- 614 cb HSS WARDROOM H2O HTR - close

2-49

DATE _____

SPT

DATE 7/6/73

	PLT
WMC	5 Disconnect H2O gun/dispenser squeezer bag adapter from squeezer bag
H829	Connect squeezer bag to squeezer port
H820	Obtain squeezer bag filter
H829	Connect filter to squeezer bag dump line below the sink
	Place filter in bag holding compt
	Connect squeezer bag line qd to filter qd
H820	Obtain squeezer plug (side of top box)
	Rotate squeezer open & install plug
800	DUMP HTR H2O 1t - on (verify)
831	WATER DUMP vlv - OPEN
800	H2O DUMP PRESS ≤ 0.7 psia
831	WATER DUMP vlv - CLOSE
	Remove squeezer plug & stow (H820)
800	DUMP HTR H2O sw - OFF (H2O 1t - off)
706	6 WATER DUMP vlv - CLOSE
705	Close WATER CHILLER & WATER HEATER doors on food table
700	H2O DUMP HTR sw - OFF
	H2O DUMP HTR 1t - off
617	DUMP HTR 1t - off
	Obtain H2O sample at water chiller sample port on food table
2-51	

DATE _____

DATE _____

17:00

CDR

LUNCH

NOTE: If CM H2O req'd
CAB REPRESS vlv - CLOSE (CCW)
MAIN REG (2) - OPEN
After H2O obtained
MAIN REG (2) - CLOSE
CAB REPRESS vlv - OPEN (CW)

Log menu deviations (CSM SYS C/L -
S/8)

2-52

DATE 7/6/73

DATE 7/6/73

SPT

PLT

17:00

LUNCH

NOTE: If CM H2O reqd
CAB REPRESS vlv - CLOSE (CCW)
MAIN REG (2) - OPEN
After H2O obtained
MAIN REG (2) - CLOSE
CAB REPRESS vlv - OPEN (CW)

Log menu deviations (CSM SYS C/L - PWT
S/8)

- F505 7 Perform iodine check on water sample
per F505 placard
Verify sample <12 ppm and voice re-
cord value
Log iodine concentration value _____
- 8 Return H2O gun/dispenser squeezer
bag adapter to water system equip-
ment container and stow container
in locker D438
- 9 N2 PRESS ind ~35 psig (verify)
PRESSURIZATION vlv - CLOSE
Disconnect & stow NITROGEN FILL hose
VENT VALVE - PRESS TO VENT - Press
until N2 PRESS ind = 20 +2 psig

2-53

DATE _____

DATE 7/6/73

SPT

PLT

17:20

★ BED 2 BAKEOUT TERM

203 When bed 2 heater on for a minimum
of 6 hrs (portable timer tone):
MOL SV BED 2 ind - 360°F to 410°F
MOL SV A BAKEOUT HTRS sw - OFF

WARNING: Allow 15 min for cool-down
of bed 2 (set portable
timer)

203 After 15 min (portable timer tone):
Check: MOL SV DEW PT ind - >47°F
MOL SV PPCO2 IN ind - >4.5
mmHg

If dew pt > 47°F or PPCO2 IN >4.5
mmHg, perform MOLECULAR SV A
ACT (2-63)

228 If dew pt <47°F and PPCO2 IN <4.5
mmHg,
BED 2 man vlv - ADSORB (T-handle)
Wait 30 sec, then BED 2 man vlv -
STORAGE (T-handle)
Stow T-handle
Close MOL A SIEVE MANUAL INTER-
2-55 CONNECT access door

★ BED 2 BAKEOUT TERM

★BED 2 BAKEOUT TERM

18:00

CDR

PERSONAL HYGIENE

2-56

DATE 7/6/73

DATE 7/6/73

SPT

18:00

PERSONAL HYGIENE

PLT

17:25

LUNCH

NOTE: If CM H2O reqd
CAB REPRESS vlv - CLOSE (CCW)
MAIN REG (2) - OPEN
After H2O obtained
MAIN REG (2) - CLOSE
CAB REPRESS vlv - OPEN (CW)

Obtain iodine tablet pkg from L3
and place in pocket (used during
RETURN H2O CONTAINER FILL/XFER)

Log menu deviations (CSM SYS C/L -
S/8)

18:20

PERSONAL HYGIENE

2-57

FDF XFER

18:30

CDR

FDF XFER/UPDATE

CAUTION: Covers of all FDF containers will be closed when not in use

[INTERNAL SWS TRANSFERS]

1 Obtain disposal bag & load per table:

<u>FROM</u>	<u>ITEM</u>	<u>QTY</u>	<u>SIZE</u>
M126	ATM/EREP OPS NOTES	1	SM
W742	FOOD LOGS	3	SM
W743	EVENING STATUS REPORT	1	LG
W744	STUDENT PROJECTS EXP C/L	1	SM

Xfer above items to disposal bag behind fwd compt food locker

2 Obtain disposal bag for CM/OWS transfers

3 Relocate following items from OWS to MDA:

<u>FROM</u>	<u>ITEM</u>	<u>QTY</u>	<u>SIZE</u>	<u>TO</u>
W742	NOTE TABLET	1	LG	M126
W742	ATM LOG	1	LG	M126

2-58

DATE 7/6/73

DATE 7/6/73

SPT

PLT

18:30

WARDROOM WINDOW ACT

CAUTION: Do not touch WARDROOM WINDOW
pane

NOTE: The following tools are re-
quired:

Speeder handle	1A
3/16 90° Allen bit	1B
3/16 Allen bit	1B
Spin handle	1E

- FWD 1 Release Window shield restraint
center fastener (3/16 90° Allen
bit & spin handle) (Left of F521)
Remove shield from restraint
- W733 2 Using bungee, strap velcro shield
against wardroom locker

2-59

DATE _____

DATE _____

CDR

- 4 Remove DATA CARD KIT-304 (CM CUE CARDS) from CM R3 and temporarily restrain
[XFER SWS BOOKS FROM CM TO MDA & OWS (LEAVE SWS DEACT C/L (3) IN R3)]

[CM/MDA]

- 5 Obtain bag containing FDF books from CM A8 for transfer to M126
6 Obtain following and place in A8 bag

<u>FROM</u>	<u>ITEM</u>	<u>QTY</u>	<u>SIZE</u>	<u>TO</u>
R3	SWS SYSTEMS C/L	1	SM	M208
R3	MDA EXP C/L	1	SM	M126
R3	ATM MALF PROCEDURES	1	LG	M126

- 7 Temporarily restrain A8 bag

2-60

DATE 7/6/73

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SPT

PLT

- WDRM 3 WINDOW COVER VENT vlv - OPEN
Release bolts (12) at WARDROOM
WINDOW METAL cover (3/16 Allen
bit and speeder handle)
Release overcenter fasteners (3) at
wardroom window and remove metal
cover
- 4 Place shield on WARDROOM WINDOW and
secure with overcenter fasteners
- FWD 5 Stow metal cover in window shield
restraint (tighten center fastener
only)

2-61

DATE _____

DATE _____

CDR

[CM/OWS]

8 Place the following items in disposal bag:

<u>FROM</u>	<u>ITEM</u>	<u>QTY</u>	<u>SIZE</u>	<u>TO</u>
R3	DATA CARD KIT-XFER	1	--	W742
R1	STOWAGE BOOK	1	LG	W742
R2	BIOMED EXP C/L	1	SM	E617
R2	MNVR EXP C/L	1	SM	F502
R2	PHOTO OPS BOOK	1	LG	F510
R2	SAL EXP C/L	1	SM	F502
R2	SMALL CHANGE SHEETS	1	SM	W744
R2	LARGE CHANGE SHEETS	1	LG	W744
R2	EREP CHANGE SHEETS	1	LG	W744
R2	STUDENT PROJECTS EXP C/L	1	SM	W744
R2	EVAL EXP C/L	1	SM	W742
R2	TV OPS BOOK	1	LG	W742
R2	FLIGHT PLAN	1	LG	W742
R2	SWS SYSTEMS C/L	1	SM	W742
R2	EVENING STATUS/FOOD LOG	1	LG	W742

9 Restow DATA CARD KIT - 304 (CM CUE CARDS) in R3

10 Obtain from F2 and stow in R2

CSM RNDZ BOOK	1	LG
CSM RNDZ CHARTS	1	LG

2-62

DATE 7/6/73

DATE 7/6/73

SPT

18:50

PCU/LSU XFER

FWD 1 Obtain PCU/LSU in plenum bag stowed near the +Z SAL (including equipment restraint)
Xfer plenum bag with PCU/LSU to MDA and stow between ATM C&D foot restraint and bulkhead (equipment restraint)

PLT

18:50

MOL SV A ACT

WARNING: Do not activate MOL SV until bakeout has been terminated for 15 minutes as indicated by portable timer & MOL SV DEW PT ind - $>47^{\circ}\text{F}$ or MOL SV PPCO2 IN - $>4.5\text{mmHg}$ (Pn1 203)

- 221 1 MOL SV A BED CYCLE N2 SUPPLY vlv - OPEN
- 226 Manual interconnect V1 thru V4 vlv's (4) - A (verify)
SOLENOID SWITCHES S1 & S4 sw(2)-AUTO
- 203 2 MOL SV A: TIMERS sw - PRI
FANS DISCONNECT sw - AUTO
Set portable timer for 15 min
- 3 After 15 min (portable timer tone on), verify that one bed is in ADSORB and the other in DESORB:
- 228 BED 1 pos ind - ADSORB (DESORB)
BED 2 pos ind - DESORB (ADSORB)
Set portable timer for 15 min

2-63

MOL SV A ACT

MOL SV A ACT

CDR

- 11 Relocate FDF as follows:
 - Obtain SWS SYS C/L from A8 bag & stow in M208
 - Stow remaining A8 bag contents in M126
 - Stow disposal bag contents per "T0" column of step 8
- 12 Obtain CUE CARDS from XFER DATA CARD KIT in W742 and distribute
(Stowage locations indicated on cards)
- 13 Obtain LARGE, SMALL & EREP change sheets from W744 & update FDF

2-64

DATE 7/6/73

DATE 7/6/73

SPT

19:00

CM FOOD XFER/DINNER PREP

- L3 1 Obtain and place in plenum bag:
Food pkg's
Large spoons (3)
- L3,A7 Residue food (if any) in L3 & A7
Move return food pkg from A7 to L3
- WDRM 2 Stow food in galley trays (dispose
of loose material in plenum bag)
Stow residue food in chiller
Stow H2O SAMPLE BAG (Apollo-type
drink bag) in W769
Stow large spoons in W700, W748 &
W772
- W742 3 Obtain EVENING STATUS/FOOD LOG &
prepare for dinner (CM menu)
- 4 Restow EVENING STATUS/FOOD LOG

PLT

- 4 After 15 min (portable timer tone-on),
verify that bed cycling has occurred:
BED 1 pos ind - DESORB (ADSORB)
BED 2 pos ind - ADSORB (DESORB)

- 5 Stow portable timer in M202

19:00

RETURN WATER CONTAINER FILL/XFER

NOTE: Obtain logged iodine PPM value
from (2-53) _____ PPM

- F507/ 1 Remove one Return water supply kit
A9 containing:
Return water container (3)
Return water container drinking
valve (3)
Return water container bag (3)
Return water container fill
adapter (1)

2-65

CM FOOD XFER
RETURN H2O XFER

SPT

DATE 7/6/73

PLT

- WDRM 2 Configure return water container as follows:
If iodine concentration <4 ppm, insert iodine pill (iodine pkg in trouser pocket) into fill adapter
Attach fill adapter to return water container
Attach fill adapter to COLD water dispenser
Dispense water into return water container (cold dispenser/6 oz/16 cycles)
Remove fill adapter from COLD water dispenser and return water container
Place full return water container in return water container bag and verify return water container drinking valve is stowed in it
- 3 Repeat step 2 for the two remaining return water containers
- 4 Stow Return water supply kit container & iodine pkg in plenum bag & fill adapter in trash bag
- 5 Xfer the three return water container bags to CM & stow in L3

2-67

DATE _____

DATE 7/6/73

SPT

PLT

19:30

CM STWG XFER

Perform per p. 2-70 & 2-71

21:00

SMMD XFER/CAL (WDRM & WMC)

Perform per p. 2-72 thru 2-75

2-69

SMMD XFER/CAL
CM STWG XFER

SMMD XFER/CAL
CM STWG XFER

PLT

19:30

CM STWG XFER

1 Obtain plenum bag and perform CM xfers per table below:

<u>ITEM</u>	<u>FROM</u>	<u>TO</u>
DISPOSAL BAGS	A9(10)	W705
CWG	A9(3)	S908 S920 S930
RSM	RHFEB(1)	EXP (above fire ext)
CM H2O GUN (before disconn: DRINK H2O SPLY vlv - OFF, ~H2O gun)	LHFEB(1)	TAL
Gas sep container & contents	L2(1)	TAL
CL2 assembly container & contents	B7(1)	TAL
LOOSE RETURN STOWAGE PROVISION BAG and S019 RETURN BAG	AFTBKH (1 each)	F521
EV GLOVES	A3(2 pair) R13(1 pair)	SEVA BAGS(2) SEVA BAG
M071/M073 RETURN BAG with boots	on A1(1) (12 pair)	F521(bag) S908 (4 pr) S920 (4 pr) S930 (4 pr)

2-70

DATE 7/6/73

DATE 7/6/73

WARDROOM FOOT RESTRAINTS (12)	PLT	
TRIANGLE SHOE TOE CAPS	U2	INSTALL WDRM
and bag (bag to plenum bag)	A2(12)	S908(4)
		S920(4)
		S930(4)
CATSUP	A2(3)	W769(3)
WMC FOOT RESTRAINT	A8(4)	H834
		(install on
		WMC floor
		when time
		permits)
WMC WATER VALVES	A8(2)	D438(2)
HYGIENE KIT RESUPPLY	A8(1)	S935(1)
Disposal bag with:	A8(1)	
RATCHET HANDLE		E624C(1)
ROTATING LITTER CHAIR RESTRAINT		LV in disposal
M172 SPRING CLAMPS (8)		bag & snap
M172 BATT SPRING RETAINERS (3)		near BMMD
TAPE	A8(2)	E625(2)
CM TIMER	B3(1)	F523(1)
T025 35MM CAMERA and	M168(1)	F510H(1)
T025 35MM CAMERA FLASH		(Separate flash
ATTACHMENT (on camera)		from camr)

2-71

DATE _____

DATE _____

SPT

21:00

SMMD XFR/CAL (WDRM & WMC)

SMMD ELECTRONICS MODULE REPLACEMENT

- A8 1 Obtain spare electronics module
- NOTE: The following tools are required:
- | | |
|------------------|----|
| 5/32 Allen bit | 1B |
| Spin handle | 1E |
| Red tape (piece) | 2A |
- 613 2 cb EXPERIMENTS WARDRM SMMD - OPEN
- W760 3 MASS/OFF/TEMP - OFF
- 4 Control lever - LOCK (verify)
- 5 Disconnect zero-g connector from electronics module
- 6 Mark failed module with red tape
- 7 Remove screws (2) on front face of failed module (5/32 Allen bit and spin handle)

- 8 Remove failed module and place in trash bag
- 9 Place spare module on SMMD verifying module is fully seated and flush with face of mounting plate and tighten screws

10 cb EXPERIMENTS WARDRM SMMD - CLOSE

SMMD CAL (WDRM & WMC)

NOTE: SMMD CAL should not be performed during momentum dump

- W742 1 Obtain EVENING STATUS/FOOD LOG
- W760 2 Control lever - LOCK (verify)
- 3 CAM LOCK/CAM UNLOCK - CAM UNLOCK (verify)
- W749C Unstow ambient thermometer
Insert temp probe under tie-down sheet and allow to stabilize
Log temperature

2-72

DATE 7/6/73

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SPT

- 4 Temporarily restrain thermometer
 - 5 Latch tie-down sheet
 - 6 MASS/OFF/TEMP - MASS
 - 7 RESET - press
 - 8 Control lever - RELEASE (hold until counter stops)
- NOTE: Release control lever gently, taking care not to touch tray or impact the device, move control lever in exactly the same way each time.
- 9 Control lever - LOCK
 - 10 Log reading
 - 11 Repeat steps 7 thru 10 for total of five measurements

- 12 Compare readings for repeatability
The span of 4 out of 5 readings should be less than 20 counts
For example: 2.32451
 2.32455
 2.32442
 2.32437
 2.32431

NOTE: If sufficient repeatability of readings was not obtained, repeat measurements up to total of 10 readings, if repeatability is still not obtained, refer to EXPERIMENT MALFUNCTION PROCEDURES

- 13 Release tie-down sheet and place 50 gram calibration mass in recess on center of tray and latch tie-down sheet
- 14 Repeat mass measurements (steps 7 thru 12)
- 15 Unlatch tie-down sheet, remove 50 gram mass and add 100 gram mass to tray, then latch tie-down sheet

2-73

DATE _____

DATE _____

- 16 Repeat mass measurements (steps 7 thru 12)
- 17 Unlatch tie-down sheet, then place 50 gram mass on top of 100 and latch tie-down sheet
- 18 Repeat mass measurements (steps 7 thru 12)
- 19 Unlatch tie-down sheet and remove 100 and 50 gram masses from tray & place in pocket, then add 250 gram mass to tray and latch tie-down sheet
- 20 Repeat mass measurements (steps 7 thru 12)
- 21 Unlatch tie-down sheet and add 100 gram mass on top of 250, latch tie-down sheet
- 22 Repeat mass measurements (steps 7 thru 12)
- SPT 23 Unlatch tie-down sheet & remove 250 and 100 gram masses and place in pocket, add 500 gram mass to tray, latch tie-down sheet
- 24 Repeat mass measurements (steps 7 thru 12)
- 25 Unlatch tie-down sheet and add 250 gram mass on top of 500 gram mass and latch tie-down sheet
- 26 Repeat mass measurements (steps 7 thru 12)
- 27 Unlatch tie-down sheet and add 100 and 50 gram masses on top of 250 and 500 masses, latch tie-down sheet
- 28 Repeat mass measurements (steps 7 thru 12)
- 29 Unlatch tie-down sheet and remove all masses from tray together and stow on knurled calib post - 500 gram mass first
Latch tie-down sheet

2-74

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SPT

	<u>SMMD CALIBRATION</u>	
	<u>CALIB POINTS</u>	<u>MASS COMBINATIONS</u>
30 Repeat mass measurments (steps 7 thru 12)		
31 Insert thermometer probe under tie-down sheet and allow to stabilize	0	----
32 Log temperature	50	50
33 MASS/OFF/TEMP - OFF Close cabinet	100	100
	150	100 + 50
34 Repeat CAL for WMC SMMD	250	250
<u>NOTE:</u> To calibrate SMMD in WMC, remove calibration mass assembly from grid in wardroom and attach to fixture in H821. Then complete steps 1 thru 33 and return calib masses to wardroom.	350	250 + 100
	500	500
	750	500 + 250
	900	500 + 250 + 100 + 50
W749C 35 Stow thermometer	0	----
36 Voice record calibration data		
W742 37 Restow EVENING STATUS/FOOD LOG		

2-75

DATE _____

DATE _____

21:30

CDR

CSM QUIES PANEL CONFIG CK (S/3-1)

1 Perform QUIES PANEL CONFIG CSM SYS
C/L S/3

A4 2 Install PANEL SHIELDS (4)

2-76

DATE 7/6/73

DATE 7/6/73

SPT

21:30

PLT

FILM XFER

Perform per p. 2-78 thru 2-83

22:30

WEIGH FOOD RESIDUE

Weigh and log all MD 1&2 food
residue

2-77

FILM XFER

FILM XFER

PLT

21:30

FILM XFER

- B1 1 Obtain PRD, log value _____ and restow in B1
2 Obtain following items and place in disposal bag for xfer to OWS

<u>ITEM</u>	<u>FROM</u>	<u>TO</u>
DAC 140 ft mag (3) bag Containing: DAC mags (BH03) (BH04) (UA04)	B8	F521 F510(J2) F510(J3) F510(I1)
DAC 140 ft mag (1) bag Containing: DAC mags (CX08)	B8	F521 F510(I8)
HDC mag (2) bag Containing: HDC mag (CX11)	B8	F521 F510(C30)

2-78

DATE 7/6/73

DATE 7/6/73

<u>ITEM</u>	<u>PLT</u>	<u>FROM</u>	<u>TO</u>
HDC mag (CX10)		U1 (on HDC)	F510(C29)
HDC MAG (3) bag Containing: HDC mag (CX25) (CX26) (CX27)		A2	F521 F510(C31) F510(B) F510(B)
M071/M073 RETURN BAG Containing: ETC FILM CANISTER BAGS with ETC 5-INCH FILM CANISTERS (6) (CT03) (CT04) (BW02) (CT08) (CT09) (IR02)		A3	F521 F510(E19) F510(E20) F510(E21) F510(F25) F510(F27) F510(F26)

2-79

DATE _____

DATE _____

<u>ITEM</u>	<u>PLT</u>	<u>FROM</u>	<u>TO</u>
BATTERY BAG		A6	F510G
Containing: SPOTMETER BATT (2)			
S063 35MM CAMERA			
BATT (3)			
S063 VAR EXP TIMER			
BATT ASSY (3)			
S063 OPTICAL SIGHT			
BATT			
HDC BATT (2)			
35MM FLASH BAG		A5	F510G
Containing: 35MM FLASH BATT (3)			
: HAZE FILTER (300mm lens)			
S063 FILTERS BAG		A5	F509
TV CLOSEUP LENS ADAPTER		A5	F526

2-80

DATE 7/6/73

DATE 7/6/73

<u>ITEM</u>	<u>PLT</u>	<u>FROM</u>	<u>TO</u>
DAC 140 ft mag (3) bag Containing: DAC mags (BH05) (BH06) (UA02)		A4	F521 F510(J4) F510(J5) F510(I3)
DAC 140 ft mag (1) bag Containing: DAC mags (CX09)		A4	F521 F510(I9)
DAC 140 ft mag (3) bag Containing: DAC mags (BV06) (BV07) (BV08)		A4	F521 F510(F17) F510(F18) F510(F19)
S063/T025/OPN 35MM FILM (8) BAG (3) Containing 35 mm film (CI99 thru CI107) (CX12) (CX13) (BV13 thru BV15) (BV16) (CX24) (CX28) (CX29) (CX30 thru CX35)		A4	F521(3) F510 (H2 thru H10) F510(F32) F510(F33) F510(F34 thru F36) F510(H41) F510(F39) F510(H11) F510(H12) F510(H35 thru H40)

2-81

DATE _____

DATE _____

<u>ITEM</u>	<u>PLT</u>	<u>FROM</u>	<u>TO</u>
DAC #11:		LH WINDOW	F509A (Obtain DAC SHUTTER cover from F523 & install)
140 ft mag (CX07)			F510(I7)

Restow following in F1:
RT ANG MIRROR
DAC PWR CABLE
DAC BRKT
18mm lens

2-82

DATE 7/6/73

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PLT

3 Xfer to OWS and relocate the following items

<u>ITEM</u>	<u>FROM</u>	<u>TO</u>
DAC 400 ft mag (CI22)	F510(F17)	F510(I15)
(CI23)	F510(F18)	F510(I16)
(CI24)	F510(F19)	F510(C2)

4 Stow step 2 items in "T0" location

5 Voice record PRD value

2-83

DATE _____

DATE _____

23:00

CDR

DINNER

(Weigh residue food)

2-84

DATE 7/6/73

DATE 7/6/73

SPT

23:00

DINNER

(Weigh residue food)

PLT

23:00

DINNER

(Weigh residue food)

2-85

DATE _____

DATE _____

24:00

CDR

00:25

EVENING STATUS REPORT PREP

Obtain the following data:
Food - CSM SYS C/L S/8
H2O Gun - CSM SYS C/L S/8
BMMD data - (See p. 2-1)

00:20

ENTRY BAT ISOLATE

After battery charging terminated:
CM275 cb BAT BUS A MAIN A - close
cb BAT BUS B MAIN B - close
cb BAT BUS A BAT A - open
cb BAT BUS B BAT B - open
CM3 DC IND sel - BAT BUS A, BAT BUS B
DC AMPS ind - 0
DC volts ind - 26.0-30.5
DC IND sel - MNA

O2 FUEL CELL PURGE

CM3 FC IND - 1
FC PURGE 1-02 (2 min)
FC FLOW 02 ind-incr 0.6 lb/hr
FC PURGE 1 - OFF
FC IND - 3
FC PURGE 3 - 02 (2 min)
FC FLOW 02 ind-incr 0.6 lb/hr
FC PURGE 3 - OFF
FC IND - 1

2-86

DATE 7/6/73

DATE 7/6/73

SPT

24:00

ED EXPERIMENTS XFER/PREP

- WDRM 1 Obtain disposal bag for xfer items
- A8 2 Unstow Mech Seeder (ED61/ED62) and
place in disposal bag
- U1 Unstow ED52/ED63 launch bag and
place in disposal bag
Unstow ED32 passive cooler bag and
place in disposal bag
- 3 Stow ED32 passive cooler bag in
wardroom chiller (W754) and
Mech Seeder in W718
- 4 Perform ED63 CYTOPHASMIC STREAMING
PREP per STUDENT PROJECT EXPERI-
MENTS C/L page 3-1
- 5 Perform ED52 WEB FORMATION PREPA-
RATION per STUDENT PROJECT EXPERI-
MENTS C/L page 2-3 (TV required)

PLT

24:00

ED52 TV SETUP

- 1 Obtain TV PWR cable from F521 and
connect to TV camr at F7 & to TV
input station
- W742 2 Obtain TV OPS BOOK
- 3 Setup TV equipment per TV OPS
BOOK - TV59 ED52 (WEB FORMATION)

2-87

ED EXP XFER
SUIT DRYING (3rd)

ED EXP XFER
SUIT DRYING (3rd)

00:30

SUIT DRYING (3rd SUIT)

D424 1 Blower unit sw - OFF
Disconnect suit drying hose from
suit connector
Remove EXHAUST CONN from suit and
stow in pocket
Remove comm carrier, wristlets and/
or comfort gloves that were air
dried and stowed in accessory bag

2 Disconnect PGA hanger strap from
D-ring on helmet bag
Exchange suit stowed near M509 for
suit presently connected to suit
dryer

CDR

3 Connect PGA hanger strap to D-ring
on helmet bag
Connect EXHAUST CONN to blue con-
nector on PGA
Connect suit drying hose to red 02
connector on PGA
Verify pressure sealing & restraint
zippers are closed
Blower unit sw - ON
Remove damp items from accessory bag
& hang to dry
Obtain OBS/BIOBELT from accessory
bag

D424

WMC

4 Obtain wet wipe from OBS electrode
kit
Remove sponge pads from probes on
OBS/BIOBELT
Clean probes with wet wipes
Obtain OBS/BIOBELT bag from appro-
priate locker (S908, S920 or S930)
Place OBS/BIOBELT in bag with elec-
trodes on the outside and snap bag
in sleep compt

00:40

EVENING STATUS REPORT

2-88

DATE 7/6/73

SPT

DATE 7/6/73

00:45

PLT

S149 RETRACT

Perform S149 RETRACT per SAL
EXPERIMENTS C/L page 3-9

2-89

DATE _____

DATE _____

01:00

CDR

PRESLEEP

01:12

MEDICAL CONFERENCE

03:00

SLEEP (8 HRS)

2-90

DATE 7/6/73

DATE 7/6/73

SPT

01:20

PRESLEEP

- 204 1 Stow loose objects in CM/MDA/AM
RCDR AUDIO sw - B
- 130 2 ATM PRESLEEP CONFIG:
DISPLAY:
All sw's (4) - OFF
LIGHTING:
INTEGRAL sw - OFF
NUMERIC cont - fully CCW
DAS:
PWR sw - OFF
- 207 3 Configure AM/MDA lights:
LIGHTING PANEL sw - FIXED
LIGHTING MDA FORWARD 1•3 sw - ON
Obtain MDA SOP/SOMA & stow in
exp't compt

03:00

SLEEP (8 HRS)

PLT

01:00

PRESLEEP

- 1 Stow loose objects in OWS
- 617 2 DUMP HTR lt - off (verify)
Configure OWS lights:
616 LIGHTING: DOME 7-8 sw - ON
: EXP COMPT 13•14 sw - ON
: SLEEP COMPT sw - ON
- 3 SIA'S: CDR - A SLEEP
SPT - A SLEEP
PLT - A ON

03:00

SLEEP (8 HRS)

2-91

DATE _____

DATE _____

DAY 3

DATE 7/6/73

11:00

POST-SLEEP (WITH M110)

TIME (MIN)	CDR	SPT	PLT
11:05	DRESS T003 (FILTER 1)	DRESS	DRESS
11:25	PERSONAL HYGIENE URINE SAMPLING (DECAL) URINE DRAWER RESUPPLY	PERSONAL HYGIENE URINE SAMPLING (DECAL) URINE DRAWER RE-SUPPLY (DECAL)	LOG H2O GUN COUNTERS (LEAVE EVENING STATUS/ FOOD LOG AT BMD) OBTAIN TELEPRINTER PADS ATM POSTSLEEP RECONFIG (SEE BELOW)
11:25	PERSONAL HYGIENE URINE SAMPLING (DECAL) URINE DRAWER RESUPPLY	BMD	
11:35	PERSONAL HYGIENE URINE SAMPLING (DECAL) URINE DRAWER RESUPPLY		
11:45	VOICE RECORD PRODS (3) (DECAL) (LOCATION & READOUT)		
11:50			PERSONAL HYGIENE URINE SAMPLING (DECAL) URINE DRAWER RESUPPLY (DECAL)
12:10	M110	M110	M110
12:20	BMD		MOVE SOP/SOMA TO MDA
12:25	MEAL PREP		BMD (RETURN EVENING STATUS/ FOOD LOG TO CS-N)
12:35			
13:50	BREAKFAST (DO NOT PREP FOR LUNCH)		
ATM POSTSLEEP RECONFIG			

130

DISPLAYS:
 ALL SW'S (4) - BUS 1
 LIGHTING:
 INTEGRAL SW - VAR
 NUMERIC cont - as desired
 DAS:
 PWR SW - BUS 1
 ATTITUDE CONTROL SYSTEM:
 SR/SS SW - CMP (verify)

3-1

DATE _____

DATE _____

13:50

CDR

SUIT DRYING TERM

- D424 1 Blower unit sw - OFF
Disconnect suit drying hose from
suit connector and secure to
handrail
Remove EXHAUST CONN from suit and
stow in D424
Remove comm carrier, wristlets and/
or comfort gloves that were air
dried and stow in accessory bag

14:05

S149 STOW-1

Assist PLT as req'd

3-2

DATE 7/6/73

DATE 7/6/73

SPT

13:50

BMD CAL

See M172 CALIBRATION tab in BIOMED
EXPERIMENTS CHECKLIST & LOG

Perform MEAL PREP when CAL complete

PLT

13:50

S149 STOW-1

Perform S149 STOW-1 per SAL EXPERI-
MENTS C/L page 3-13

3-3

BMD CAL
S149 STOW-1

BMMD CAL
S149 STOW-1

14:30

CDR

PLENUM BAG STWG

Assist PLT as req'd

3-4

DATE 7/6/73

SPT

DATE 7/6/73

PLT

14:30

PLENUM BAG STOW

1 Obtain filled plenum bags and xfer
to sleep compartment
Secure bags to grid floor using
snap hook

2 Obtain:
5/32 Allen bit 1B
Spin handle 1E
3/4 neutral tape 2A
Bungee
E625 Penlight

SLEEP 3 Unscrew screws (15) in access cover
to plenum area (5/32 allen bit and
spin handle)
Remove cover and secure to grid
(bungee)

NOTE: Second crewman is required

Remove plenum bag stowage map
(3-11) & tape in PLT's SLEEP
COMPT (3/4" neutral tape)

3-5 Enter plenum area

DATE _____

DATE 7/6/73

SPT

15:00

ED52 PHOTO/TV

- 1 Perform ED52 WEB FORMATION PHOTOGRAPHY page 4-7 if web is completed
- 2 Perform TV 59-ED52 (WEB FORMATION) scene 59C

PLT

- 4 Obtain full plenum bag from second crewman and translate to position 1
Have second crewman direct penlight to stowage area
Secure plenum bag snap hooks (2) to cable near crew quarters flooring
Attach strap snap hooks (2) to cable on dome
- 5 Repeat step 4 for remaining plenum bags, stowing per map
- 6 Exit plenum area
Remove cover from bungee and place on hatch
Secure cover, tightening (15) screws (5/32 allen bit and spin handle)

3-7

DATE _____

DATE _____

15:20

CDR

REGROUP

16:30

FIRE DRILL

3-8

DATE 7/6/73

DATE 7/6/73

SPT

15:30

REGROUP

16:30

FIRE DRILL

15:20

REGROUP

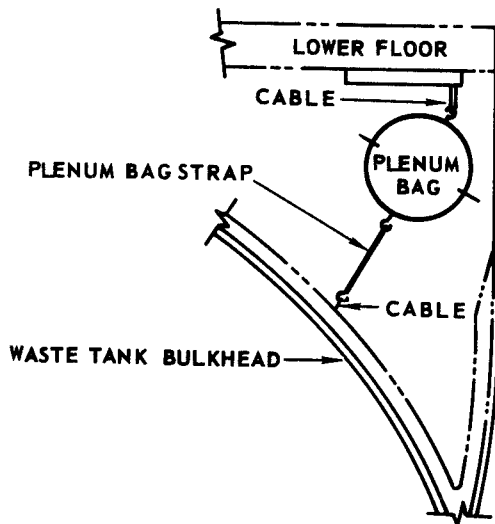
16:30

FIRE DRILL

PLT

3-9

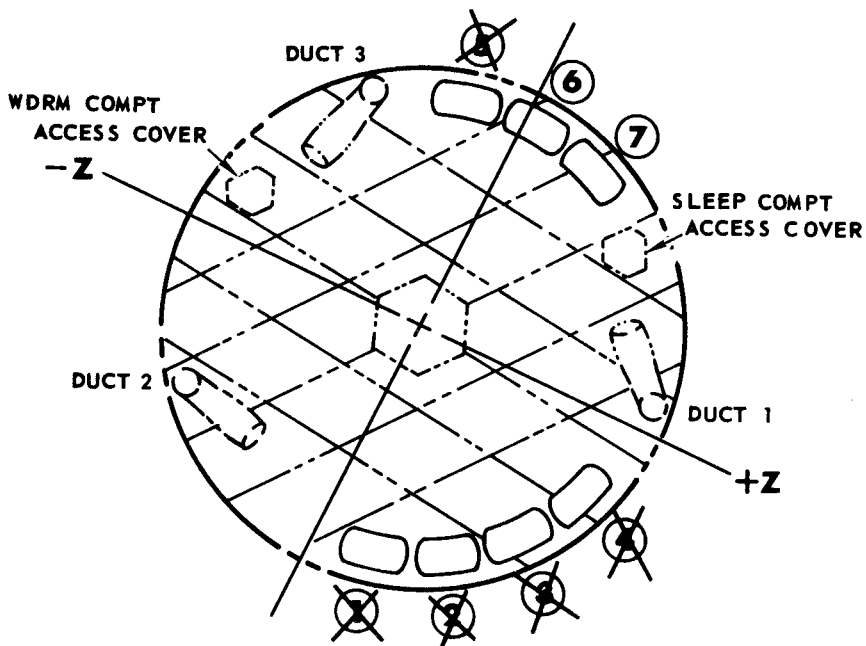
DATE _____



PLENUM BAG RESTRAINT

3-11

DATE 7/6/73



PLENUM BAG INSTALLATION AND ORDER

DATE