#### **Apollo 15 Entry Checklist**

Please note that most of the hand-written additions to this document were added during the compilation of the Apollo 15 Flight Journal in 1998 to 2000. To a large extent, they reflect changes read up to the crews during the course of the mission.

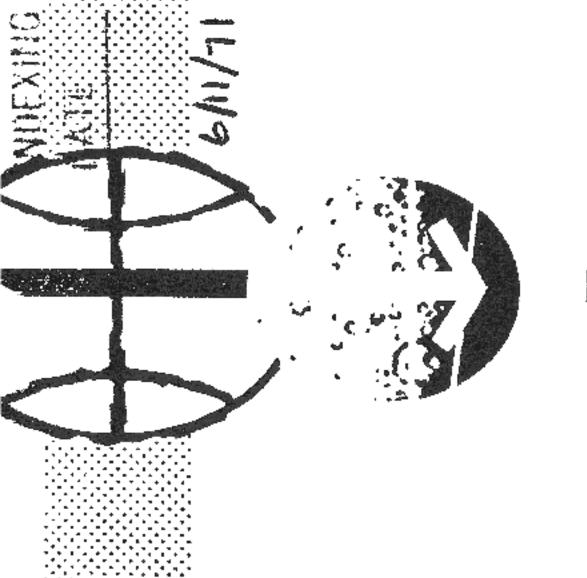
David Woods - Editor: Apollo Flight Journal

# \* APOLLO 15 CSM 112 REVISION A \* CSM ENTRY CHECKLIST

PREPARED BY

GUIDANCE & CONTROL PROCEDURES SECTION

SYSTEMS PROCEDURES BRANCH CREW PROCEDURES DIVISION



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## MANNED SPACECRAFT CENTER HOUSTON, TEXAS JUNE 11, 1971

CSM ENTRY CHECKLIST

JUNE 11, 1971

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### CSM ENTRY CHECKLIST

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\*Current Change

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VEHICLE PREPARATION

## LUNAR RETURN VEHICLE PREPARATION

.

	]		INITIAL STOWAGE COMPLETED
	2		CMC & IMU POWER UP pg G/2-1 & 2
	3		<u>SCS POWER UP</u> pg G/2-4
	4		<u>P51 - IMU ORIENTATION</u> pg G/6-1
	5		LOAD DAP V48E 11102, 01111, PRO, PRO, PRO
288-45	6	-06:00h 🖌	LAST MCC DECISION
289	7	-05:35h 🗸	NO COMM - P52 & NAV SIGHTINGS
	8		DON MAE WESTS & FOOT RESTRAINTS
	9	ŕ	ACTIVATE VHF FOR COMM CHECKS
	10		<u>VERIFY DSE POWERED</u> cb S BD FM XMTR/DSE (2) - close (verify)
245	11		PERFORM UV PHOTOGRAPHY (Flight Plan)
12/11/9	12	-04:30h 🗸	<u>P27 (SV, REFSMMAT), MNVR</u> <u>&amp; ENTRY PAD UPDATES</u>
DATE . ∂¥8€	13	-04:15h (::)	<u>P52 - IMU REALIGN</u> pg G/6-2 (OPTION 3, then OPTION 1)
	14		P37 (NO COMM ONLY)
	15		ECS CKS 02 SUPPLY REFILL pg S/1-7 PGA verification, (if suited)S/1-10
		(382)	ECS Monitor Ck pg S71-5 EVAP H2O CONT PRI v1v - AUTO EVAP H2O CONT SEC v1v - AUTO SUIT HEAT EXCH SEC GLY - FLOW

		<u> </u>
16		EPS CKS #1, 3, 4 (5 if req'd) pg S/1-2
17		<u>SPS_CK</u> (If req'd) pg_S/1-1
18		RCS CKS SM RCS Monit Ck pg S/1-1 CM RCS Monit Ck pg S/1-1
19		<u>C&amp;W SYS CK pg S/1-17</u>
20		CMC SELF CK pg G/2-3
21		DSKY=COND_LT_TEST_pg_G/1=23 delated 289:32:24
22	-03:45haja	MIDCOURSE MANEUVER P30 - EXT AV
	-03:15h -03:00h	P40/41 - SPS/RCS THRUSTING MIDCOURSE (#7) BURN
23	-02:55h	NO COMM NAV SIGHTINGS

26(\_\_:\_\_) <u>GDC ALIGN</u> If drift >10°/hr, change rate source

27 <u>MNVR TO 0°, 265°, 0</u>° (Horizon Check at EI-17:00) V49E

S-BD OMNI ANT - C

28 <u>PERFORM BORESIGHT & SXT STAR CHECK</u> V41 N91E

> Drive Optics to 90° shaft angle OPTICS PWR - OFF

29 -01:15h EMS ENTRY CHECK EMS FUNC - OFF (8) cb EMS (2) - close EMS MODE - STBY EMS FUNC - EMS TEST 1 (wait 5 sec) EMS MODE - NORMAL (wait 10 sec)

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```
Check ind lts - off
  RANGE ind -0.0
  Slew hairline over notch
    in self-test pattern
EMS FUNC - EMS TEST 2 (wait 10 sec)
  .05G lt - on (all others out)
EMS FUNC - EMS TEST 3
  .05G lt - on
  RSI lower lt - on (10 sec later)
  Set RANGE counter to 58 nm+0.0
EMS FUNC - EMS TEST 4
  .05G lt - on (all others out)
  G-V trace within pattern to lwr rt
    corner 09G
  RANGE ind counts down to 0+0.2
EMS FUNC - EMS TEST 5
  .05G lt - on
  RSI upper 1t - on (10 sec later)
  RANGE ind - 0.0
  Scribe traces vertical line 9g to
    0.28 + 0.1
```

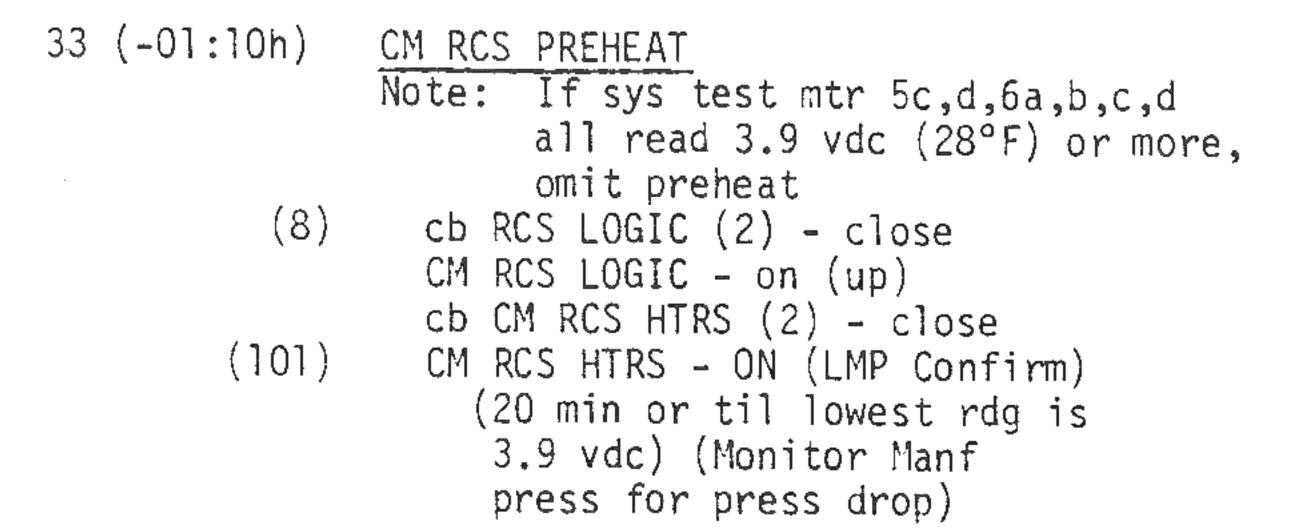
SET UP CAMERA CM4/DAC/18/CIN - BRKT, MIR

30

31

32

(T16,250,7) 12 fps, MAG K



Ξ 1-5 FINAL STOWAGE Stow Optics Install Optics Covers Stow ORDEAL (377)GLY TO RAD SEC vlv - BYPASS (verify) Verify EVA COUCH STRUT disengaged (382)Cool pnl installed Y-Y struts (2) extended Stow Data Box R-12 Attach both strut unlock lanyards Check for water in tunnel area Stow gas separator (A8) Stow Cl injector (R6) WASTE MGMT DRAIN viv - OFF Remove & stow URA, urine transfer hose and urine filter 35 (-00:50m) TERM. CM RCS PREHEAT

> CM RCS HTRS - OFF (LMP confirm) (101)CM RCS LOGIC - OFF

(8) cb CM RCS HTRS (2) - open

36

294

34

SYSTEMS TEST PANEL CONFIGURATION SYS TEST METER - 5B (BAT RLY BUS 3.4-4.1 vdc) (101)CM RCS HTRS - OFF (verify) WASTE H20 DUMP HTR - OFF URINE DUMP HTR - OFF (100) LEB FLOOD & INTGL LIGHTING - OFF PYRO BATT CK cb PYRO A SEQ A - close (verify) (250)cb PYRO B SEQ B - close (verify) DC IND - PYRO BAT A(B)\*If PYRO BAT A(B) < 35 vdc ★ \*cb PYRO A(B) seq A(B) - open × \*cb PYRO A(B)BAT BUS A(B)TO PYRO\* \* BUS TIE - close\* (275)cb MNA BAT C - close cb MNB BAT C - close DC IND - MNB

37

```
SECS PYRO ARM (2) - ARM

CM RCS PRPLNT 1&2 tb (2) - gray (verify)

CM RCS PRESS - on (up)

RCS IND sw - CM1, then 2

He PRESS stabilizes at 3300-3500

psia after 15 minutes

MANF PRESS 287-302 psia

SECS PYRO ARM (2) - SAFE
```

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00:45m P27 & ENTRY PAD UPDATE

E/1-7	INAR	ΕN	TRY				
01	n	1	2	Ρ	A	C	AREA
Entry Pad	Х	Х	χ	0	0	0	R 0.05 G
272:09:30	Х	χ	Х	1	5	3	P 0.05 G
	Х	Х	X	0	0	0	Y 0.05 G
2	9	4	4	1	3	7	GET HOR
(omments:	χ	χ	χ	Ζ	6	7	р СК
	+	0	2	6.	1	2	LAT N61
NON EXIT EMS PATTERS	-	ł	5				LONG
RET 90K 6:06	X	Х	And in case of the local division of the loc	and in case of the local division of the	Statement of the local division in which the local division in the local division in the local division in the	وبعد والالباب بالأ	MAX G
RET MAINS 8:32	+	3	6	0	9	7	V <sub>400K</sub> N60
LANDING 13:29	-	0	0	6.	5	0	<sub>Y</sub> 400K
constant g	+	(	0		-		RTGO EMS
call make	+	3					VIO
							RRT
Moon set time	X	X				7-1	RET 0.05 G
[294:56:20]	+	0	0		-/		DL MAX N69
	+	0	0		Ύ́Α	-	DL MIN
	÷						VL MAX
	+			/			VL MIN
	X	X	X	4	0	0	DO DET VOIDO
	X	X	0	2		3	RET VCIRC
	X	X	0	0	1	8	RETBBO
	X	· X	0	5	3	X X	RETEBO RETDRO
	V	× X	Ø	Y	4	4	SXTS
	+		1.		2	<b>4</b>	SFT
	┣ <u>─</u> ─	2	7	5		0	TRN
	X	ر X	X	2	1	2	BSS
	^ X	X		6	a	Z	SPA
	X	X	X			0	SXP
	X	Y	X	X	U	ρ	LIFT VECTOR

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2012

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	5				T	The second s		
								AREA
		Х	Х	Х				R 0.05 G
		Х	Х	χ				P 0.05 G
		Х	Х	Х				Y 0.05 G
								GET HOR
		Х	χ	Х				р СК
			0					LAT N61
								LONG
		Х	Х	Х				MAX G
		+						V <sub>400K</sub> N60
		-	0	0				<sup>V</sup> 400К <sup>N60</sup> ү400К
		+						RTGO EMS
		+						01V
								RRT
•		Х	Х					RET 0.05 G
		+	0	0				DL MAX
		+	0	0				- N69 D <sub>L</sub> MIN
		+						V <sub>L</sub> MAX
		+						VL MIN
		Х	χ	χ				DO
		Х	Х					RET <sup>V</sup> CIRC
		Х	χ					RETBBO
		Х	χ					RETEBO
		Х	Х					RETDRO
		Х	Х	Х	Х			SXTS
		+					0	SFT
		+				0	0	TRN
		Х	Х	Х				BSS
		X	Х					SPA
		X	Х	Х				SXP
		Х	X	Х	Х			LIFT VECTOR

E/1-8

E/1-9 LU	NAR	EN	TRY				
							AREA
	X	X	X				R 0.05 G
	X	X	χ				P 0.05 G
	X	X	X				Y 0.05 G
							GET HOR
	X	X	Χ				P CK
		0					LAT N61
							LONG
	X	X	X				MAX G
	+						VADOKN60
	-	0	0				V <sub>400K</sub> N60 <sub>Y</sub> 400K
	+						RTGO EMS
	+						VIO
							RRT
	X	X					RET 0.05 (
	+	0	0				DL MAX
	+	0	0				DL MIN
	+						VL MAX
	+						VL MIN
	X	X	X				DO
	X	X					RET VCIRC
	X	X					RETBBO
	X	X					RETEBO
	X	X					RETDRO
	X	X	X	X			SXTS
	+					0	SFT
	+				0	0	TRN
	X	X	X				BSS
	X	X					SPA
	X	X	X				SXP
	X	X	X	X			LIFT VECTO

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X       X       X       X       R       0.05 G         X       X       X       P       0.05 G         X       X       X       Y       0.05 G         X       X       X       P       CK         Q       Image: Arrow of the state of
X       X       X       X       P       0.05 G         X       X       X       Y       0.05 G         X       X       X       Y       0.05 G         X       X       X       GET HOR CK         Q       Image: Comparison of the com
X       X       X       Y       0.05 G         X       X       X       GET       HOR         X       X       X       P       CK         O       LAT       N61       LONG         X       X       X       MAX G
X     X     X       X     X     X       0     LAT       N61       LONG       X     X
X X X P CK 0 LAT N61 LONG X X X MAX G
X     X     Y       0     LAT     N61       LONG     LONG       X     X     MAX
LONG X X X MAX G
X X X MAX G
+ V400K <sup>N60</sup> - 0 0 Y400K
- 0 0 Y400K
+ RTGO EMS
+ VIO
RRT
X X RET 0.05 G
+ 0 0 DL MAX
+ 0 0 DL MIN
+ VL MAX
+ VL MIN
X X X DO
X X RET VCIRC
X X RETBBO
X X RETEBO
X X RETDRO
X X X X SXTS
+ O SFT
+ 0 0 TRN
X X X BSS
X X SPA
X X X SXP
X X X X LIFT VECTOR

SUPERCIRCULAR ENTRY

3/22/71

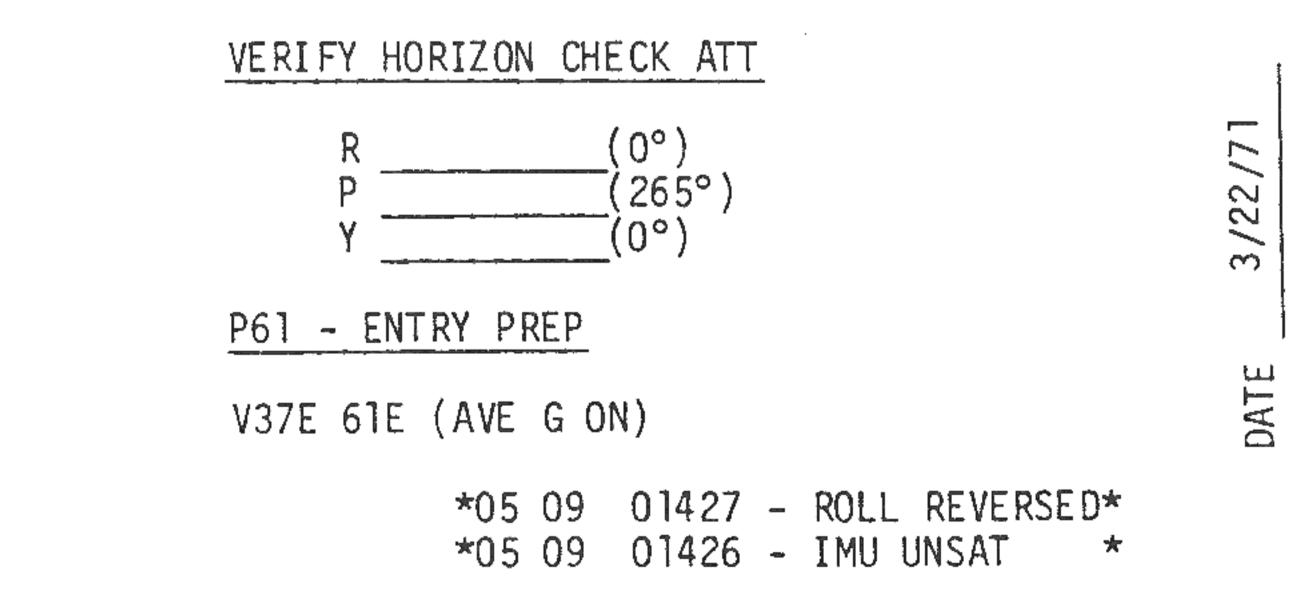
DATE \_\_\_\_

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1 Set DET (up, to EI) 2 EMS INITIALIZATION \*Scroll not on 37K:\* \*EMS FUNC - TEST 5 \* \*Slew scroll to 37K\* EMS FUNC - RNG SET (verify) SET RNG TO PAD DATA RNG EMS FUNC - VO SET Slew Scroll to Pad Data VIO EMS MODE - STBY (verify) EMS FUNC - ENTRY RSI ALIGNMENT 3 FDAI SOURCE - ATT SET ATT SET - GDC EMS ROLL - on (up) GDC ALIGN pb - push & hold YAW THUMBWHEEL - Position RSI thru

45° & back to LIFT UP GDC ALIGN pb - release EMS ROLL - OFF Align GDC to IMU CM RCS CHECK AUTO RCS A/C ROLL (4) - OFF (verify) cb RCS LOGIC (2)-close (verify) SC CONT - SCS MAN ATT (3) - MIN IMP RCS TRNFR - CM AUTO RCS SEL (RING 1) - OFF AUTO RCS SEL (RING 2) - MNB TEST RING 2 THRUSTERS AUTO RCS SEL (RING 2) - OFF AUTO RCS SEL (RING 1) - MNA TEST RING 1 THRUSTERS AUTO RCS SEL (RING 2) - MNB RCS TRNFR - SM MAN ATT (3) - RATE CMD SC CONT - CMC/AUTO

GLY EVAP TEMP IN - MAN



	F 06 41:30m 18:30)	61	<pre>IMPACT LAT, LONG, HDS UP/DN (+/-)</pre>
10	F 06	60	GMAX, V400K, GAMMA EI (.01G, fps, .01°) Record GMAX 650 V400K GAMMA EI 600 PRO
11	F 16		RTOGO (.1nm) PAD VIO (fps) PAD TFE(min-sec) If NO COMM, Set RTOGO & VIO in EMS & initialize EPT) PRO (CLE) V32E to 10 P62 - CM/SM SEP & PRE-ENTRY MNVR
10	5 50	0E	00041 DECHEST CM/SM SED

12 F 50 25 00041 REQUEST CM/SM SEP

43:00m (-17:00) (265°P)

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COMPARE HORIZON with 31.7° line If not +5°, G&N NO GO MAN ATT (3) - RATE CMD (verify) ATT DB - MIN RATE - HIGH SC CONT - SCS YAW 45° OUT-OF-PLANE (LEFT)(315°) BMAG MODE (3) - ATT1/RATE 2 MN BUS TIE (2) - ON (verify) PRIM GLY TO RAD - BYPASS (verify) EMS MODE - STBY (verify) CM RCS LOGIC - on (up) SECS LOGIC (2) - on(up)(verify) SECS PYRO ARM (2) - ARM CM/SM SEP (2) - on (up)If docking ring still on: CSM/LM FNL SEP (2) - on(up)(verif

45:00m (-15:00) Е 2-4

MAN ATT (3) - MIN IMP BMAG MODE (3) - RATE 2 C&W MODE - CM RCS TRNFR - CM CM RCS MANF PRESS - 287-302 psia CM RCS LOGIC - OFF SECS PYRO ARM (2) - SAFE Monitor V MNA/B: \*If <25 vdc, go to EMERG POWER DOWN\* YAW back to 0° PITCH TO ENTRY ATT  $(0^{\circ})$ R (152°) Ρ 0°) Y ★ \*If NO COMM Entry: \* Track Horizon with 31.7° line\* \* \* to .05G EMS DATA - Verify EMS FUNC - ENTRY (verify) EMS MODE - NORMAL Verify .05G lt filter is down

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PRO (Act ENTRY DAP Att Hold)

13 F 06 61 IMPACT LAT,LONG,HDS/DN (.01°,.01°,-00001) PRO (CMC Guidance)

14 POSS 06 22 FINAL ATT DISP, RPY (.01°) (Only if X-axis beyond 45° of Vel vector)

P63 - ENTRY INIT

15 06 64 G,VI,RTOGO (.01G,fps,.1nm) FDAI SCALE - 5/5 ROT CONTR PWR DIR (2) - MNA/MNB TAPE RCDR - HBR/RCD/FWD/CMD RESET 58:00m Pitch error needle goes toward (-02:00) zero approaching .05G time

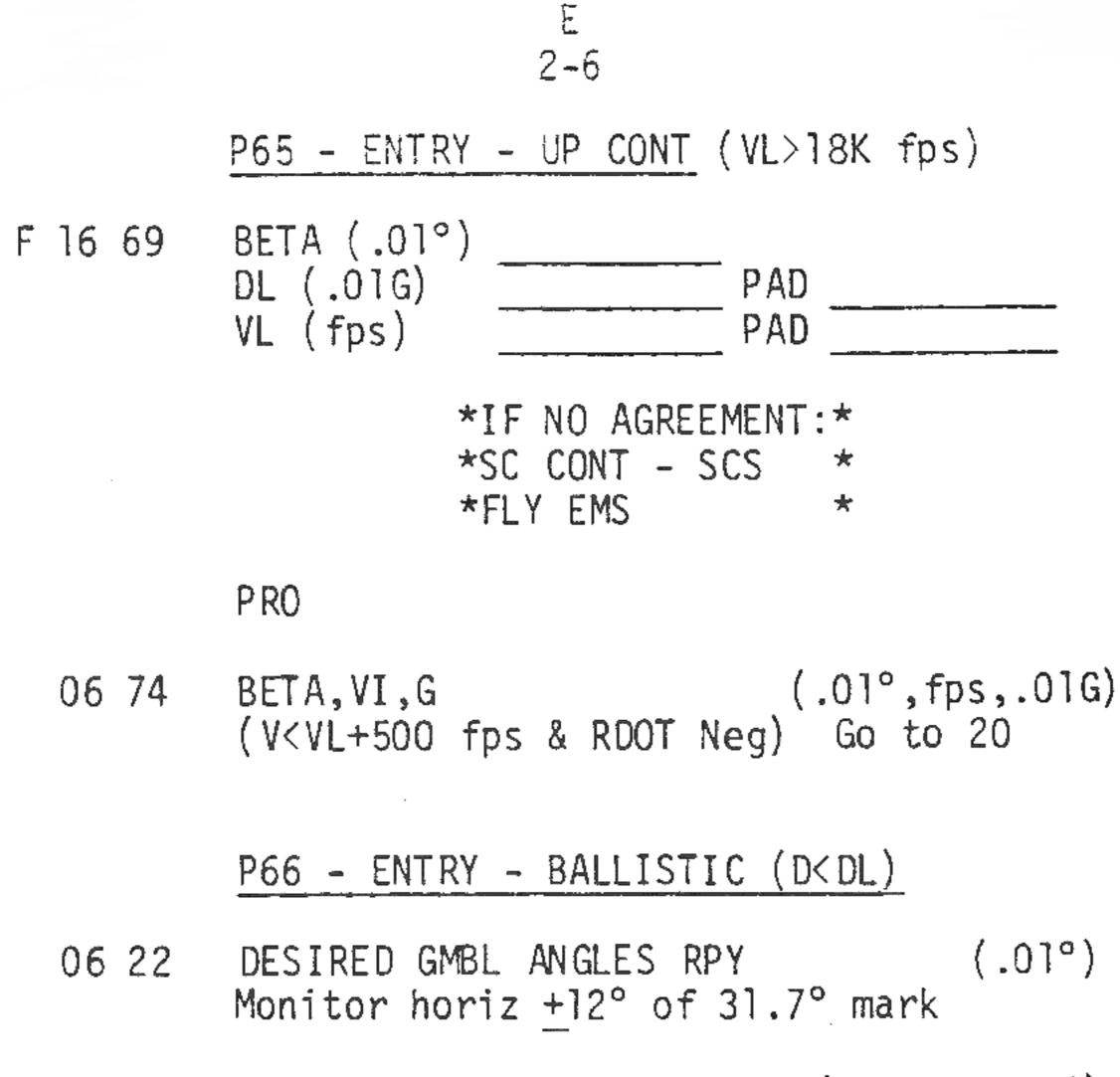
Start DAG

.05G	time	
(+0	: )	
$(\overline{:}$	)	ł
(152°	'P at	.05G)

RTOGO AT .05G AGREES WITH EMS-verif HORIZ CHECK .05G lt - on (EMS START) \* No EMS START within 3 sec: \* \* EMS MODE - BACKUP/VHF RNG \*

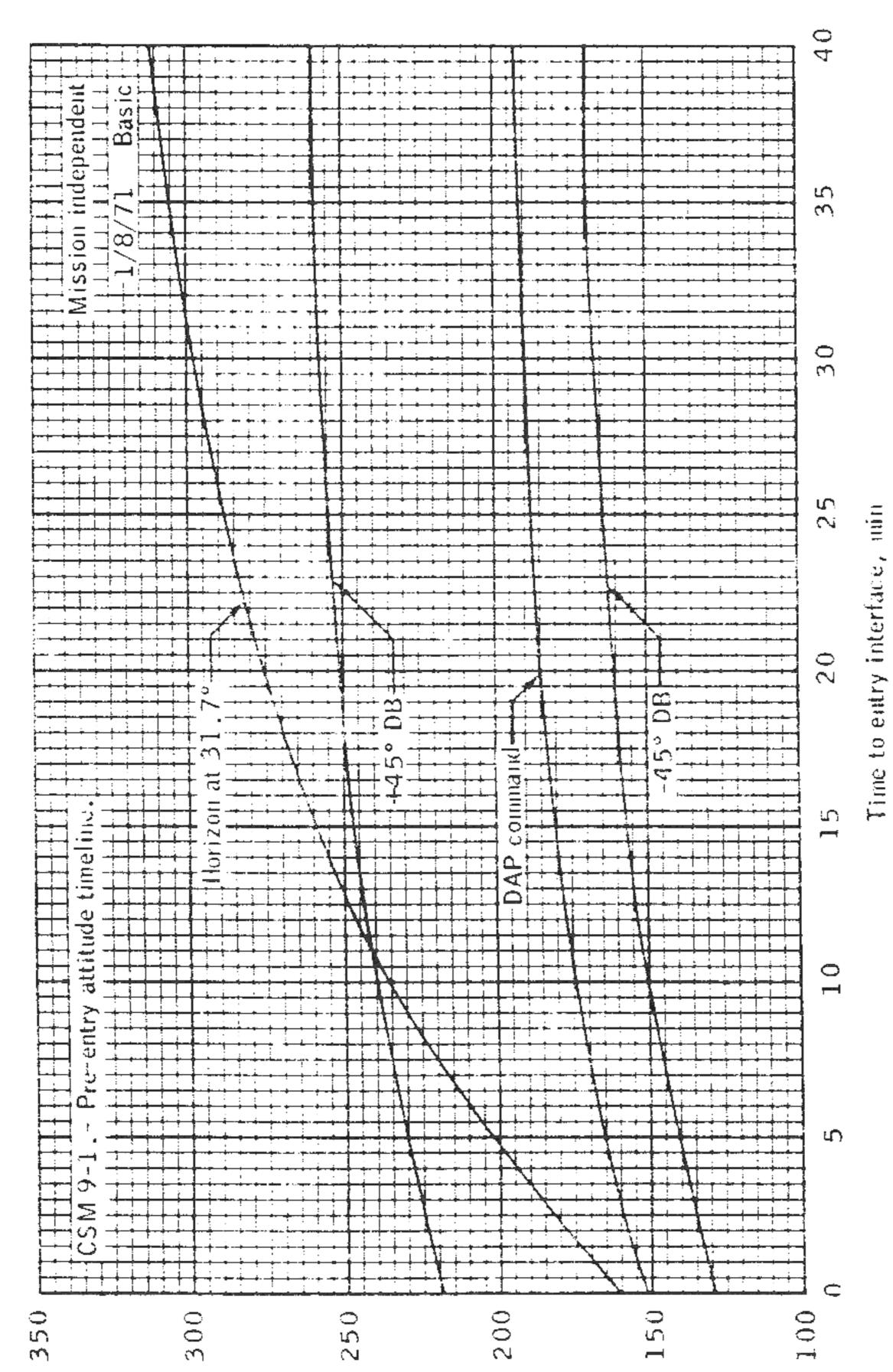
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.05G sw - on (up)
EMS ROLL - on (up)
NOTE: To monitor N68, (BETA, VI, HDC
         Key V16 N68E
Compare RSI & FDAI
  *If CMC or PAD cmds Lift DN,*
  * or NO COMM Entry:
                               大
                               ★
     MNVR Lift DN at .05G
  *
  * (Lift up at 1.5G)
                               \star
EMS GO/NO GO
  G-V Plot within limits
Monitor G-meter for
  convergence with pad data (Do)
CMC is NO GO if commanding
  >+90° when G >6.52
Go to 20 (P67) or continue
```



P67 - ENTRY - FINAL PHASE (AUTO AT .2G)

BETA, CRSRNG ERR, DNRNG ERR(.01°,.1nm,.1nm) 06 66 (+ is north & long) BETA will be +15° until R3 >  $\sim$ -24nm Monitor lift vector on RSI & FDAI CM RCS: change rings when HE PRESS <1150 F 16 67 RTOGO, LAT, LONG (Vrel=1000 fps) DATE  $(.1nm, .01^{\circ}, .01^{\circ})$ SC CONT - SCS RTOGO NEG - LIFT UP RTOGO POS - LIFT DOWN Monitor altimeter Record LAT, LONG & VOICE TO RECY at 10K' Record EMS RTGO EMS MODE - STBY EMS FUNC - OFF Stop DAC DAC - T11



12/11/9

DATE \_\_\_\_

E

2-7



attitude timeline.

Pitch gimbal angle, dec

Pre-entry

#### EARTH/POST LANDING

$\begin{array}{llllllllllllllllllllllllllllllllllll$	rt Watch (00:00) (00:52)
40K'(07:14) * <u>CM_UNSTABLE</u> *RCS_CMD - OFF * 40K' APEX_COVER_JETT_PB-PUSH *DROGUE_DEPLOY_PB - PUSH (2 set *after apex_cover_jett)	
30K' ELS LOGIC - on (up) ELS - AUTO Start	(01:24) DAC
24K'(07:45) RCS disable (auto) *RCS CMD - OFF*	(01:37)
Apex cover jett (auto) *APEX COVER JETT PR - PUSH*	

```
*APEX COVER JETT PB - PUSH*
              (WAIT 2 SECS)
             Drogue parachutes deployed (auto)
                         *DROGUE DEPLOY PB - PUSH*
12/446
              If Both Drogues Fail:
                         *ELS - MAN
                                                   \star
                         *Stabilize CM
                                                   *
DATE
                         *5K' MAIN DPLY PB - PUSH*
                          *ELS - AUTO
                                                    ×
    23.5K'
            Cabin Pressure increasing
                          *If not increasing by 17K':
                          *CABIN PRESS REL vlv (RH) - DUMP*
         0835
                  Main parachutes deployed (Drogues + 👬 )(02:😂)
    10K'(<del>08:41</del>)
                      MAIN DEPLOY PB - PUSH (within 1 sec)
    (Cab Press
                       SURGE TK 02 vlv -OFF (if unsuited)
     = 10 \text{ psia})
                       REPRESS PKG vlv -OFF (if unsuited)
                       DIRECT 02 vlv -OPEN
                       VHF ANT - RECY
                       VHF AM A - SIMPLEX
                       VHF BCN - ON
```

E 3-2 CABIN PRESS REL vlv (2) - CLOSE CM RCS LOGIC - on (up) \*If main or pyro bus lost,\* \* use RHC's for burn, \* not DUMP sw  $\star$ CM PRPLNT - DUMP (burn audible) Monitor CM RCS 1&2 for He press decrease \*If no burn or press decrease,\* \* use both RHC's \*DO NOT FIRE PITCH JETS \* CM PRPLNT - PURGE \*CM RCS He DUMP PB - PUSH \*RHC (2) - 30 secs, NO PITCH\* Stow DAC STRUT LOCKS (4) - UNLOCK If night landing: cb FLOAT BAG #3, FLT/PL (1 cb) - close PL BCN LT - LOW cb FLT & PL BAT BUS A,B,&BAT C (3) - close (275) cb FLT & PL MNA & B (2) - open cb BAT RLY BUS (2) - open (5) cb RAD HTRS OVLD (2) - open (verify)

(8) cb SPS P&Y (4) - open (verify)

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3K' CM RCS PRPLNT (2) - OFF (terminates purge) CABIN PRESS REL vlv (RH) - DUMP ELS AUTO (verify) ELS LOGIC - ON (verify) FLOOD Lts - POST LDG

800' CAB PRESS RELF vlv - CLOSE (latch off) MN BUS TIE (2) - OFF

POSTLANDING STABILIZATION, VENTILATION, COMMUNICATIONS

Ţ

3-3 (8) cb PL VENT - close cb FLOAT BAG (3) - close cb UPRIGHT SYS COMPRESS (2) - close (278) If Stable II: FLOAT BAG(3) - FILL till 2 min after upright, then - OFF VHF AM A/B & BCN - OFF while inverted If Stable I: After 10 Min Cooling Period, FLOAT BAG (3) - FILL 7 min, then OFF Post Stabilization And Ventilation PL BCN LT - BCN LT LOW (night landing) PL VENT vlv - UNLOCK (Pull into detent) Remove PL VENT Exh Cover PL VENT - HIGH or LOW If req'd: PL DYE MARKER - ON Release restraints (275) cb MNA BAT BUS A & BAT C (2) - open cb MNB BAT BUS B & BAT C (2) - open cb FLT & PL BAT C - open (250)cb PYRO A SEQ A - open cb PYRO B SEQ B - open Verify voltage > 27.5 vdc \*If < 27.5 vdc:  $\star$ \* cb FLT & PL-BAT BUS A&B (2) -open\* \* cb FLT & PL BAT C (1) - close × GO TO LOW POWER CHECKLIST ≻ \* Unstow and install PLV DISTRIB DUCT Deploy grappling hook and line if reg'd NOMINAL EGRESS & POWER DOWN PL VENT - OFF cb Pnl 250 (all) - open Charge hatch counterbalance Open side hatch (after collar installed) ACTR HNDL SEL - N

GN2 vlv HNDL - VENT (pull)

GN2 v1v HNDL - PRESS (push)

Check Pressure Gauge (mid-white)

\*repeat vent/press to obtain mid-white\*

UNAIDED EGRESS PROCEDURES

```
PREPARATION
 Disconnect umbilicals
  Neck dams on (if suited)
  Configure couch(s) - 270°
  Armrests stowed
  Unstow survival kits
  Connect lanyards, (green to S/C, white to crew)
STABLE I
  PL VENT - OFF
  cb Pnl 250 (all) - open
  Charge hatch counterbalance
  Open side hatch
  ACTR HNDL SEL - N
  GN2 v1v HNDL - VENT (pull)
  GN2 vlv HNDL - PRESS (push)
  Check Pressure Gauge (mid-white)
    *repeat vent/press to obtain mid-white*
  Remove raft from kit No. 2
  Put raft overboard & pull inflation lanyard
  Pass hardware kit to raft
  Egress, inflate life vest, board raft
      *If no ventilation or CM 02 supply,*
      * initiate egress within 2-1/2 hrs*
STABLE II
  PWR (3) - OFF
  SUIT PWR (3) - OFF
  PRESS EQUAL v1v - OPEN
  Remove & stow hatch
  Lower hardware rucksack down tunnel
  Exit feet first; when clear of S/C inflate
    water wings
   Remove life raft from kit No. 2 and inflate
       *If no ventilation or CM 02 supply,*
       * initiate egress within 2-1/2 hrs*
```

POST LANDING COMMUNICATIONS VHF ANT - RECY (verify) VHF BCN - ON (verify) If no contact with recovery forces perform VHF BEACON Check MONITOR VHF BEACON transmission with VHF AM B Rcvr and/or Survival Transceiver ★ \*VHF Beacon not operating \*connect Survival Transceiver to ant \* \*cable conn P112 behind VHF ant access pnl\* \*and place radio in BCN mode ★ LOW POWER CHECKLIST VHF BCN - OFF VHF AM (3) - RCV

VHF AM (3) - RCV FLOOD LTS - OFF VHF AM A&B - off (ctr) VHF AM RCV ONLY - A (verify) POSTLANDING VENT SYS: minimize use SURV RADIO - plug into VHF BCN ANT cable conn Pll2 behind VHF ant access pnl & turn

radio on in BCN mode

EMERGENCY PROCEDURES (Flight copies only)

see CSM SYSTEMS CHECKLIST



#### **Apollo 15 Entry Checklist**

Please note that most of the hand-written additions to this document were added during the compilation of the Apollo 15 Flight Journal in 1998 to 2000. To a large extent, they reflect changes read up to the crews during the course of the mission.

David Woods - Editor: Apollo Flight Journal