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CONVAIR (ASTRONAUTICS) DIVISION
GENERAL DYNAMICS CORPORATION

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FLORIDA TEST PROCEDURE

A. M. R.

10D COUNTDOWN OPERATIONS

MERCURY
HS 36-1

CONVAIR-ASTRONAUTICS
Standard 1959
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REVISIONS

Number	Date	By	CHANGE	Pages Affected

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Deviation Authorization

Number 577



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GENERAL DYNAMICS CORPORATION

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Date: 4 September 1959

AMR DEVIATION AUTHORIZATION

TITLE

LOD

COUNTDOWN OPERATIONS

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Paragraph

- PROCEDURE -

Replace the following pages with the attached pages: 10, 11, 12, 15, 28, 29, 30, 31, 33, 40

Reason for change: To correct document times.

C. A. Johnston

C. A. Johnston
Test Conductor, Complex 14

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X-1 DAY CHART

CC	AREA	TIME - H	70	80	90	100
1	B	TEST CARD OPERATIONS	AREA A/B/C	AREA D/E (POWER ONLY) (UP-3 EXISTING OF CAPSULE)	AREA ANKER	FUEL AND TEST STAND AREA RED
3	C	PROPLANTS	SEQUENCE AND CHECKOUT CHECKS	10/2 P.I.L.		
4	F	TELE-GEN		MARK UP	TEST	
5	I	RANGE SAFETY				
6	O	AUTOPLOT		MARK UP		
6	H	HYDRAULICS	BOOSTER & SUSTAINER CK	BOOSTER & SUSTAINER STAIRS OK		SUSTAINER CK
7	R	GE GUIDANCE		PREP	TEST	
9	S	LANTIRNS	GROUP 1 AND 2 AND BEVERAGE EQUIPMENT OK	GROUP 3 OK		GROUP 4 OK
10	K	10 ₂ CONTROL				TOPPING OF O ₂ STORAGE
10	L	FUEL CONTROL				
10	M	PRESSURE				STAGE 1 PRESSURIZATION
10	N	HYDRAULICS				ENGINE CONTROL
10	G	WATER SYSTEM				WATER SYSTEMS READY
10	U	MOBILE ELECTRONICS				
11	T	GROUND SUPPORT	FLIGHT BATTERY INSPECTION	CRITICAL POWER, MISSILE COOLING, AIR CR AS NECESSARY	PREP FOR ENGINE	FLIGHT TEST
8	ERC	MERCURY CAPSULE DELIVERED	CAPSULE PREPARATION FOR MATING	MATING OF ATLAS AND MERCURY CAPSULE	INSPECTION OF MATING BAND	HOOK UP OF AIR. VENTILATION
8	ETC	MERCURY PRESS	CHECK O ₂ AND COOLING TRAILER			EXTERNAL AIR CONDITIONING AS NECESSARY
8	MEC	MERCURY COUP				INSTALL 52 LITER
8	SEC	MERCURY TELEPHONE				

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PRO-COUNT CHART

NO	FUNCTION	3:30	3:00	2:30	2:00	1:30	1:00	0:30	0
1	TEST AND OPERATIONS								
2	AREA ACCESS								
3	PROPULSION		SST RIGS	FILL & FLUSH BOOSTER & SUSTAINER	IGNITER INSTALLATION	EX CH SEPS	CHECK REG	EX DEFECT INSTALLATION	AREA REQ
4	TELEMETRY					WARM UP			
5	RAVE SAFETY								MECHANICAL INSTALLATION OF RED DEFLECT BOX
6	PILOT					WARM UP			STANDBY
6	HYDRAULICS								HYDRAULIC CHECK
7	CE GUIDANCE								
9	LANDING PREPARATION								
10	TO ₂ CONTROL								
10	FILL CONTROL								
10	PRESSURIZATION								
10	PNEUMATICS								
10	WATER SYSTEMS								
10	MISSILE ELECTRICAL								
11	GROUND SUPPORT EQUIPMENT								
8	MERCURY CAPSULE								
8	MERCURY PRESSURIZATION								
8	MERCURY CONTROLS								
8	MERCURY TELEMETRY								
		3:30	3:00	2:30	2:00	1:30	1:00	0:30	0

COMMUNICATION ASSIGNMENT

TEST CONDUCTOR	CH 1	FLIGHT CONTROL	CH	6
TEST OPERATIONS	CH 2	GE GUIDANCE	CH	7
PROPULSION	CH 3	MERCURY CAPSULE	CH	8
TELEMETERING	CH 4 & 5	LANDLINE INST	CH	9
R/F SYSTEMS	CH 5	COMPLEX	CH	10
MERCURY	CH 12	STAND OPERATIONS	CH	11

PANEL OR SUB-SYSTEMS CODE

TEST CONDUCTOR	A	FUEL CONTROL	L
TEST OPERATIONS	B	PRESSURIZATION	N
ENGINE TEST	C	PNEUMATICS	N
PURGE CONTROL	D	FACILITY CONTROL	P
RANGE SAFETY AND TRACKING	E	WATER SYSTEMS	Q
AUTOPILOT	G	G.E. GUIDANCE	R
HYDRAULIC	H	LANDLINE INST	S
TELEMETERING	J	GROUND SUPPORT	T
LO2 CONTROL	K	MISSILE ELECTRICAL	U
		GE IP	V

AREA CODE

BLOCKHOUSE	1	EQUIPMENT SHELTER	6
MISSILE	2	STORAGE AREA	7
TEST STAND	3	AMR	8
TRANSFER ROOM	4	GMCF #2	9
TRAILER	5	GR TURK TX	10
TRAILER (MERCURY)	12	SAN SAL 2X	11



MERCURY PANEL OR SUB-SYSTEM CODE

MERCURY LAUNCH OPERATIONS DIRECTOR.....	MZ 8
MERCURY COORDINATOR.....	MD 1
MERCURY TEST ENGINEER.....	MC 1
MERCURY CONTROLS SYSTEM.....	MA 1
MERCURY TELEMETRY.....	MT 1
MERCURY TELEMETRY # 2.....	MT 8
MERCURY TELEMETRY TRAILER.....	MT 12
MERCURY CAPSULE SUPERVISOR.....	MP 2
MERCURY LANDLINE MONITOR.....	MQ 1
MERCURY ORDINANCE.....	ME 2
TECHNICIAN	
MERCURY CAPSULE RECOVERY.....	MR 2
TECHNICIAN	
MERCURY NITROGEN.....	MN 2
TECHNICIAN	
MERCURY PROJECT ENGINEER.....	MX 1
MERCURY CENTRAL CONTROL COORDINATOR.....	MH 8
MERCURY COOLING ENGINEER.....	MV 2
MERCURY RAMP TALKER.....	MI 2
MERCURY HANGAR "S".....	MS

COMPLEX LIGHTS

1. GREEN - ALL CLEAR; SMOKING IN AUTHORIZED AREAS ONLY.
2. AMBER - APPROACH WITH CAUTION, ONLY THOSE PERSONNEL REQUIRED FOR CURRENT OPERATION PERMITTED IN AFFECTED AREA: SMOKING IN AUTHORIZED AREAS ONLY.
3. STEADY RED - HAZARDOUS TEST UNDERWAY; ALL PERSONNEL CLEAR AREA IMMEDIATELY; ROAD BLOCKS SET UP; RE-ENTRY INTO TEST STAND AREA ONLY ON APPROVAL OF PAD SAFETY OFFICER.

- NOTE:
1. THE WARNING LIGHT AT THE BLOCKHOUSE WILL DISPLAY THE MOST SEVERE CONDITION EXISTING AT ANY OF THE THREE COMPLEX AREAS: TEST STAND, LO2 AREA OR FUEL AREA.
 2. PERSONNEL NOT ASSIGNED TO THE COMPLEX, ENTERING THE AREA IN ANY BUT A GREEN CONDITION, MUST CHECK IN WITH THE TEST CONDUCTOR OR ASSISTANT, OR THE STAND TALKER.

COMPLEX SIREN

1. CONTINUOUS - EMERGENCY EVACUATION.
2. ONE 3 SECO'ND BLAST - TEST STARTING 10 MINUTES.
3. THREE 1 SECOND BLASTS - IMMEDIATE TEST.

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SYMBOLS AND ABBREVIATIONS

*MAJOR ITEM

(ITEM FOR TEST CONDUCTOR COORDINATION, INFORMATION,
AND CRITICAL ITEMS)

A/B	AIR BORNE	CKT BKR	CIRCUIT BREAKER
AC	ALTERNATING CURRENT	COMP	COMPARTMENT
ADJ	ADJUST	CONN	CONNECTION
AFCO	AUTOMATIC FUEL CUT-OFF	DA	DEVIATION AUTHORIZATION
AFMTC	AIR FORCE MISSILE TEST CENTER	DC	DIRECT CURRENT
AGC	AUTOMATIC GAIN CONTROL	DISP	DISPLACEMENT
AMPL	AMPLIFIER	DIST	DISTRIBUTION
AMR	ATLANTIC MISSILE RANGE	DLT	DATA LINK TEST
A/P	AUTOPILOT		
APPROX	APPROXIMATELY	EA	ESTERLINE-ANGUS
AUTO	AUTOMATIC	ELEC	ELECTRIC
AUX	AUXILIARY	EMER	EMERGENCY
		ENG	ENGINE
BAT	BATTERY	EQUIP	EQUIPMENT
BE	BOOSTER ENGINE	EXT	EXTERNAL
BKHS	BLOCKHOUSE		
BLDG	BUILDING	F/C	FLIGHT CONTROL
BOM	BASE OPERATIONS MANAGER (DOWN RANGE)	FIL	FILAMENT
		FIN	FINISH
C/C	CENTRAL CONTROL	FREQ	FREQUENCY
C/O	CHECK OUT	FTP	FLORIDA TEST PROCEDURE
C-O	CUT OFF		
CH	CHANNEL	GE	GENERAL ELECTRIC
CK	CHECK	GEN	GENERATOR

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GENC	GENERAL ELECTRIC NOSE CONE	LT (S)	LIGHT (S)
GFST	GROUND FUEL START TANK		
GG	GAS GENERATOR	MAX	MAXIMUM
GMCF	GUIDED MISSILE CONTROL FACILITY	MIN	MINIMUM OR MINUTES
GN2	NITROGEN (GASEOUS)	MM	MILLIMETER
GO2	OXYGEN (GASEOUS)	MOD	MODEL
GRND	GROUND	MSL	MISSILE
HE	HELIUM	NEG	NEGATIVE
HTR	HEATER		
HT XGR	HEAT EXCHANGER	OBS	OBSERVER
HYD	HYDRAULIC	OSC	OSCILLOGRAPH
IGN	IGNITER	PA	PUBLIC ADDRESS
IGN DET	IGNITION DETECTOR	P & E	PROPELLANTS & EXPLOSIVES
IPMS	IMPACT PREDICTOR MONITOR SET	PCU	PRESSURIZATION CONTROL UNIT
IN	INCH	PLCU	PROPELLANT LOADING CONTROL UNIT
INST	INSTRUMENTATION	PNEU	PNEUMATIC
INT	INTERNAL	PNL	PANEL
INTEGR	INTEGRATOR	POS	POSITION
IP	IMPACT PREDICTOR	POT	POTENTIOMETER
		PREP	PREPARATION
LEU	LAUNCHER BOOSTER UNIT	PRESS	PRESSURE
LN2	NITROGEN (LIQUID)	PROG	PROGRAM
LO2	OXYGEN (LIQUID)	PROP	PROPULSION
LPBU	LAUNCHER PNEUMATIC BOOSTER UNIT		

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PBA	PITCH SERVO AMPLIFIER	SRO	SUPERINTENDENT OF RANGE OPERATIONS
PSI	POUNDS PER SQUARE INCH	STOR	STORAGE
PSIG	POUNDS PER SQUARE INCH (GAGE)	SW(S)	SWITCH (S)
PSU	PAD SAFETY OFFICER	SYS	SYSTEM
PU	PROPELLANT UTILIZATION		
PWR	POWER	TC	TEST CONDUCTOR
PYR	PITCH-YAW-ROLL	TEMP	TEMPERATURE
		TLM	TELEMETRY
QUAD	QUADRANT	TLR	TRAILER
		TP	TEST PANEL
RCC	ROUGH COMBUSTION CUTOFF	TRIC	TRICHLORETHYLENE
RDY	READY	TS	TEST STAND
RECT	RECTIFIERS	TU	TRANSFER UNIT
REF	REFERENCE	TV	TELEVISION
REG	REGULATOR		
R/F	RADIO FREQUENCY	V	VOLT
R/S	RANGE SAFETY	VE	VERNIER ENGINE
RSA	ROLL SERVO AMPLIFIER	VLV	VALVE
RSC	RANGE SAFETY COMMAND		
		XMITTER	TRANSMITTER
SC	SUPPORT COORDINATOR		
SE	SUSTAINER ENGINE	YSA	YAW SERVO AMPLIFIER
SEC	SECOND		
SEL	SELECTOR		
SEQ	SEQUENCE		
SIG	SIGNAL		

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TIME	COMM CK	SEQ	SYS & AREA	DESCRIPTION	REMARKS
		2,3	C1	PROPULSION READY REPORT	
		2,4	J5	TELEMETERING SYSTEM READY REPORT	
		2,5	E1	R/F SYSTEM READY REPORT	
		2,6	G1	FLIGHT CONTROL SYSTEM READY REPORT	
		2,6	R8	GE GROUND GUIDANCE READY REPORT	
		2,7	R1	GE GUIDANCE AIRBORNE READY REPORT	
		2,8	MC1	MERCURY CAPSULE READY REPORT	
		2,9	S1	LANDLINE SYSTEMS READY REPORT	
		2,10	T1	COMPLEX SYSTEMS READY REPORT	
		2	B1	AMR SUPPORT READY REPORT (SC)	
			B1	COMMUNICATIONS SATISFACTORY REPORT	
		2,10	H1	HYDRAULIC SYSTEM READY REPORT	
T-180	2	1	A1	<u>*COUNTDOWN STARTS</u> (PA ANNOUNCEMENT)	
		2	S1	BUS 1 ENGINE CONTROL FUNCTIONS, AND SEQUENCE RECORDERS ON SLOW; BUS 4, SEQUENCE #5 ON.	
	2,7	1	P1	VERIFY POD COOLING AIR ON	
		1	R1	VERIFY SPECTRUM ANALYZER ON	
	2,5	1	E1	<u>*R/S COMMAND TESTS START</u> (AMR)	
		2	B1	<u>*COMPLEX AREA RED</u> (PA ANNOUNCE BKHS) (LAUNCH ONLY)	
		3	Q1	TEST STAND AND BLOCKHOUSE RED LIGHTS ON	
		4	E2	VERIFY 60 MA FUSES NOT BLOWN AND REINSTALL	
		5	E1	BATTERY ACTIVATE SWITCH ON	
		6	E8	COMMAND CARRIER ON (SC)	
					CK LTS TRANSMITTER #1

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-180	2,5	7	E1	COMMANDS 1 AND 2 TO EXTERNAL (WAIT 2 MINUTES BEFORE PROCEEDING TO SEQUENCE 9)	
		8	C1	ENGINE TEST PREPARE FOR CUT-OFF	
		9	E8	DESTRUCT SIGNAL (5 SECONDS) ON-OFF	
		10	E1	DESTRUCT 1 AND 2, VE CUT-OFF 1 AND 2 TEST LIGHTS ON AND OFF	
		11	C1	ALL ENGINE CUT-OFF LIGHTS REMAIN OFF	
		12	E1	SAFE/ARM SWITCH TO ARM	CK LTS
		13	E2	INERT BOX INDICATES ARM	
		14	E1	COMMAND 1 SELECTOR SWITCH TO INTERNAL (WAIT 15 SECONDS BEFORE PROCEEDING TO SEQUENCE 15)	
		15	E8	MANUAL FUEL CUT-OFF SIGNAL (5 SECONDS) ON-OFF (SC)	
		16	C1	ENGINE TEST RECEIVE COMPLETE CUT-OFF	
		17	E1	VE CUT-OFF 2 TEST LIGHT ON-OFF	
		18	C1	ENGINE RESET	CK LTS
		19	E8	AUTOMATIC FUEL CUT-OFF (5 SECONDS) ON-OFF	
		20	C1	ENGINE TEST RECEIVE COMPLETE CUT-OFF	
		21	E1	SUSTAINER CUT-OFF 2 TEST LIGHTS ON-OFF	
		22	C1	ENGINE RESET	CK LTS
		23	E1	COMMAND 1 SELECTOR SWITCH TO EXTERNAL	
		24	E8	COMMAND CARRIER TRANSMITTER #1 OFF, #2 ON (SC)	
		25	E1	COMMAND 2 SELECTOR SWITCH TO INTERNAL (WAIT 15 SECONDS BEFORE PROCEEDING TO SEQUENCE 26)	
		26	E8	MANUAL FUEL CUT-OFF SIGNAL (5 SECONDS) ON-OFF	TRANSMITTER #2

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-180	2,5	27		ENGINE TEST RECEIVE COMPLETE CUT-OFF	
		28		VE CUT-OFF 1 TEST LIGHT ON-OFF	
		29	C1	ENGINE RESET	CK LTS
		30	E8	AUTOMATIC FUEL CUT-OFF (5 SECONDS) ON-OFF	
		31	C1	ENGINE TEST RECEIVE COMPLETE CUT-OFF	
		32	E1	SUSTAINER CUT-OFF 1 TEST LIGHT ON-OFF	
		33	C1	ENGINE RESET	CK LTS
		34	E1	COMMAND 2 SELECTOR SWITCH TO EXTERNAL	
		35	E2	REMOVE 60 MA FUSES AND VERIFY NOT BLOWN	
		36	E2	INSTALL 1.5 AMP FUSES	
		37	E1	COMMAND 1 AND 2 SELECTOR SWITCHES TO INTERNAL (WAIT 15 SECONDS BEFORE PROCEEDING TO SEQUENCE 38)	
		38	E8	DESTRUCT SIGNAL (5 SECONDS) TRANSMITTER #2 ON-OFF	
		39	C1	ENGINE TEST RECEIVE COMPLETE CUT-OFF	
		40	E1	ALL TEST LIGHTS REMAIN OFF	
		41	C1	ENGINE RESET	CK LTS
		42	E1	COMMAND 1 AND 2 SELECTOR SWITCHES TO OFF	CK LTS
		43	E1	SAFE-ARM SWITCH TO SAFE	CK LTS
		44	E2	INERT BOX INDICATES SAFE	
		45	E2	CONFIRM BOTH 1.5 AMP FUSES BLOWN. INSTALL NEW 60 MA FUSES	
		46	F8	COMMAND CARRIER OFF (SC)	
		47	E1	<u>*RANGE SAFETY COMMAND TEST COMPLETED (APPROX. T-170)</u>	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-170	8	1	MT1	MERCURY VERIFY ALL RF OFF AND CAPSULE POWER OFF	
	2,5	1	E2	<u>*START ELECTRICAL CONNECTION OF RED DESTRUCT BOX (ITEMS 1 THROUGH 21 LAUNCH ONLY)</u>	PSO CHECK ALL STATIONS
	5,7	2	E1	NOTIFY GE RED BOX INST. START (GDCF #1)	
	5	3	E1	<u>DISABLE SAFE/ARM SW</u>	
		4	E1	VERIFY COMMAND SEL SW 1 & 2 OFF	CK LTS
		5	E1	RF SYSTEMS PANEL POWER DC SW OFF	
		6	E1	CHECK ALL PANEL LTS OFF	
	2,5	7	B3	<u>*VERIFY ALL PERSONNEL OTHER THAN DESTRUCT INSTALLATION CREW OFF TOWER (PSO)</u>	
		8	E1	VERIFY TLM SYSTEM POWER OFF	
		9	E8	VERIFY AMR CUTOFF AND DESTRUCT SWS SAFETY WIRED (SC)	
	5	10	E2	CK 60 MA FUSE NOT BLOWN	
		11	E2	REMOVE CANNON PLUG FROM INERT BOX	
		12	E2	REMOVE SHORTING PLUG ON DESTRUCT BOX	
		13	E2	CONNECT CANNON PLUG ON DESTRUCT BOX	
		14	E1	TURN R/S PANEL POWER DC SW ON	CK LTS
		15	E1	<u>SAFE/ARM SW TO SAFE</u>	
		16	E1	MISSILE SAFE LT ON; MISSILE ARMED LT OFF	
		17	E2	REMOVE ARMING SAFETY WIRE FROM DESTRUCT BOX	
		18	E2	OBSERVE INDICATOR ON DESTRUCT BOX ON SAFE	
		19	E2	SAFETY WIRE CANNON PLUG ON DESTRUCT BOX	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-170	5	20	A1	PSO RECEIVE SAFETY WIRE (1 DESTRUCT BOX)	
		21	E2	<u>*R/S DESTRUCT BOXES INSTALLATION FINISHED</u> (APPROX. T-165)	
T-165	8,5	1	MC1	<u>MERCURY VERIFY COMPLETION OF RANGE SAFETY COMM- AND CHECKS</u>	
		2	MC1	MERCURY MAKE ELECTRICAL CONNECTION OF MARMON BAND SQUIBS (LAUNCH ONLY) (FUSES ONLY FOR FRF).	
		3	MC1	MERCURY MAKE ELECTRICAL CONNECTION OF RETRO-ROCKETS (LAUNCH ONLY) (FUSES ONLY FOR FRF)	
		4	MC1	<u>ELECTRICAL CONNECTION OF RETRO-ROCKETS AND MARMON BAND COMPLETE</u> (APPROX T-150)	
	5	1	E2	CLOSE ACCESS DOORS	
	2,5	1	B1	<u>*COMPLEX AREA AMBER</u>	
	2,10	1	T3	<u>*PAD AND TOWER AREA CLEAR (PA ANNOUNCEMENT)</u>	
T-160	8,5	1	MA1	MERCURY EXTERNAL CONTROL SYSTEM POWER ON	
T-150	8	1	MC1	MERCURY REPORTS ELECTRICAL CONN. OF RETRO-ROCKETS AND MARMON BAND COMPLETE	
		2	MP2	MERCURY REMOVE CANISTER SAFETY COVER	
		3	MP2	MERCURY INSTALL MARMON BAND BOLT COVERS	
		4	MP2	MERCURY INSTALL RETRO-ROCKET COVERS	
		5	MP2	MERCURY REMOVE MARMON BAND SAFETY BELT	
			MP2	MERCURY CHECK SAFETY PINS ARE OUT OF SEPARATION SWITCH AND BREAK-A-WAY FOR AUX. UMBILICAL CABLE	
T-130	8,5	1	MC1	<u>MERCURY CAPSULE SECURE-CREW LEAVE TOWER TO BLOCKHOUSE AREA</u>	
	2,10	1	T3	<u>TOWER REMOVAL PREPARATION START</u>	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-130	2,6	1	G1	CALIBRATE SANBORN RECORDERS	
		2	G1	INSTALL GYRO PATCH PANEL	
T-120	10	1	T4	APPLY 6250 PSIG FROM BOOSTER TO LAUNCHER (LAUNCHER PNEUMATIC BOOSTER UNIT)	
		2	S1	INSTRUMENTATION VERIFY APPROX 6250 PSIG IN HOLDDOWN RELEASE CYLINDERS	L1127P L1128P
		3	S1	MONITOR WEIGHT SYSTEM FOR CHANGE WHILE RAISING TOWER PLATFORMS	
	2,10	4	T3	<u>*RAISE TOWER PLATFORMS AND LOCK IN POSITION</u>	
	2	1	B1	<u>*WEATHER REPORT (SC)</u>	
T-115	2,10	1	T3	<u>SERVICE TOWER CLEAR OF ALL PERSONNEL</u>	PSO CK
	2,10	1	T3	<u>*SERVICE TOWER REMOVAL AND SECURING START</u>	
		2	T3	CLOSE MANUAL WATER VALVES TO SERVICE TOWER	
		3	T3	REMOVE ELECT. WATER, PNEU. CONN FROM SERVICE TOWER	
		4	P1	CRANE POWER SWITCH OFF	CK LT
		5	P1	SERVICE TOWER POWER SWITCH OFF	CK LT
		6	T3	MOVE TOWER TO SERVICE TOWER MAINTENANCE AREA	
		7	T3	CONNECT WATER, POWER CONTROLS AND COMMUNICATIONS	
		8	T3	CV INSTALL CABLES TO SERVICE TOWER W/PAA SUPPORT	
	2,10	10	T7	<u>*REPORT TOWER SECURING COMPLETE (APPROX T-90)</u>	
		1	MCL	MERCURY START PREPARATIONS FOR CONTROLS CHECK NO. 2	
		2	MCL	MERCURY START PREPARATIONS FOR TLM CHECK NO. 2	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-115	2,10	1	E8	SRO REPORT TO GF ON TIME DELAY OF DOWN-RANGE TRANSMITTER	
T-110	8	1	MT1	MERCURY TURN ON TLM POWER (EXT)	
	7	1	R8	AMR RESOLVER TEST START (GMCF #1 & #2)	
T-105	7	1	R8	AMR RESOLVER TEST FINISHED (GMCF #1 & #2)	
T-100	8	1	MC1	MERCURY START TLM CHECKS ON EXT POWER RF ON	
	10	1	T3	SET SPRAY PATTERN ON MONITOR NOZZLES 5 DELEMENTS FROM CLOSED POSITION AND LOCK	
		2	T3	CHECK FINAL POSITION OF MERCURY BOOM	
	7,5	1	E1	VERIFY ALL SAFE LIGHTS ON	
T-97	8	1	MC1	MERCURY COMMUTATORS OFF	
T-90	2	1	D1	BLOCKHOUSE SEQUENCER START MANUAL	
T-88	8	1	MC1	MERCURY SWITCH TO INTERNAL POWER AND MAKE TLM AND CONTROLS CHECK	
		2	MC1	AMP RECORDERS ON (MERCURY)	
		3	MT1	MERCURY COMMUTATORS ON	
T-86	8	1	MC1	MERCURY TLM AND CONTROLS CHECKS ON INTERNAL POWER COMPLETE. SWITCH TO EXTERNAL POWER	
		1	MT1	MERCURY COMMUTATORS OF	
		2	MT1	MERCURY TLM RF OFF	
		3	MT1	AMP RECORDERS OFF (MERCURY)	
		4	MT1	MERCURY TLM POWER OFF	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
T-80	2,10	1	N1	<u>*HELIUM STORAGE PREPARATION FINISHED (APPROX T-75)</u>		
		1	S1	TURN ON PLCU		
		2	L1	CHECK 100% FUEL LIGHT ON		
		1	L3	VERIFY AMOUNT OF FUEL FROM FUEL FACILITY LINE DRAIN WITHIN SPECIFICATIONS		
		1	T4	CHECK LAUNCHER BOOSTER PRESSURE FOR 7000 PSIG		
		2	T4	VERIFY OUTLET PRESSURE REG AT 6250 PSIG VERIFY 2000 PSIG LAUNCHER CONTROL PRESSURE AT LBU		
		3	T1	CHECK ALL WARNING LIGHTS OFF		
		4	T1	HOLDDOWN AND RELEASE READY LIGHT ON		
		5	T4	VERIFY LBU 2000 PSIG SYSTEM OUTLET VALVE OPEN		
		1	T3	TURN THRUST SECTION HEATERS ON		
		2	T3	CHECK LO2 TOPPING HEAT EXCHANGER PROBE AMPLIFIERS ON		
		11	1	K7	FILL LO2 TOPPING HEAT EXCHANGER	
		2,10	1	K7	<u>*SECURE GN2 TOPPING GEAR</u>	
			2	K7	OPEN BOTH GN2 TRAILER OUTLET VALVES AT GN2 TANKS	
			3	K1,S1	MONITOR FACILITY GN2	F1194P
10	4	K7	DISCONNECT GN2 EVAPORATOR TRAILER FROM FACILITY 440V POWER RECEPTACLE			
	5	P1	LO2 PUMP C TOGGLE SWITCH TO OFF	CX LT		
	6	K7	RECONNECT PUMP LC POWER CABLE			
	7	K1	REPORT TO STAND ENGINEER GN2 TOPPING SECURED			
	12	1	MV2	MERCURY CLOSE BURST DISC. ISOLATION VALVE ON COOLING TRAILER. COOLING TECHNICIAN DEPART FOR BLOCKHOUSE AREA.		

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-85	2,6	1	G1	<u>*FLIGHT CONTROL SYSTEM TESTS START</u>	
		2	G1	VERIFY SANBORN RECORDERS READY	
	6,4	3	G1	EXERCISE SELECTOR SWITCH TO GYRO TEST	
	6	4	G1	GYRO DISABLE SWITCH TO ACTIVATE	
		5	G1	SANBORN RECORDERS ON (10MM/SEC)	
		6	G1	EXERCISE SWITCH PUSH	
		7	G1	EXERCISE LIGHT ON	
		8	G1	MONITOR SANBORN RECORDERS	
		9	G1	EXERCISE LIGHT OFF	
		10	G1	SANBORN RECORDERS TO STANDBY	
		11	G1	GYRO DISABLE SWITCH TO DISABLE	
	6	12	G1	EXERCISE SELECTOR SWITCH OFF	
		13	G1	VERIFY RECORDINGS SATISFACTORY	
		14	G1	<u>AUTOPILOT GYRO TORQUE TEST FINISH</u>	
		15	G1	INSTALL INTEGRATED-LAUNCH PATCH BOARD	
		16	H5	CK CONTROL STATUS SW ON REMOTE (BE & SE)	
		17	G1	VERIFY GYRO DISABLE SW ON DISABLE	
		18	H1	OBTAIN CLEARANCE TO BRING UP HYDRAULIC PRESSURE	
		19	H1	PANEL CONTROL LT ON (BE & SE)	
		20	H1	CK OIL EVACUATE SW ON STANDBY (BE & SE)	
		21	H1	GROUND HYD PUMP START BUTTON PUSH (RE & SE)	
		22	H1,H5	VERIFY BYPASS VLV CLOSED LT ON-OPEN LT OFF (BE & SE)	CK LT.

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS		
T-85	6	23	H5	ADJUST HYD PRESSURE TO 2000 PSIG (BE)	2000 PSIG LT ON		
		24	H5	ADJUST HYD PRESSURE TO 2000 / 200-0 PSIG (SE)		2000 PSIG LT ON	
		25	G1	<u>INTEGRATOR SERVO GIMBALING TEST START</u>			
		26	G1	EXERCISE SELECTOR TO INTEGRATOR TEST			
		27	G1	VERIFY SANBORN READY			
		28	G1	EXERCISE SWITCH PUSH, EXERCISE LIGHT ON			
		29	G1	EXERCISE LIGHT OFF			
		30	S1	SANBORN RECORDERS TO STANDBY			
		31	G1	VERIFY RECORDING SATISFACTORY			
		32	G1	EXERCISE SELECTOR OFF			
		33	G1	<u>INTEGRATOR SERVO GIMBALING TEST FINISH</u>			
		34	G1	INSTALL LOOP TEST PATCH PANEL			
		3	3	1	N3	ENGINE AC POWER CIRCUIT BREAKERS CLOSED (GROUND RELAY BOX)	
				2	C3	HEATER POWER LIGHT ON (GROUND RELAY BOX)	
	3			K1	MISSILE VALVE HEATER LIGHT ON		
	10			1	N3	<u>HELIUM PRESSURE STORAGE PREPARATION START</u>	
	2			N1	HELIUM COMPRESSOR CUT-OFF BUTTON RESET		
	3			N1	HELIUM COMPRESSOR SWITCH TO IDLE POSITION	CK LT	
	4	N3	START HELIUM COMPRESSORS (WARM UP)				
	5	5	5	N3	RECONNECT LN2 TRAILER REMOTE OPERATION CABLE AND CHECK TRAILER SET UP FOR REMOTE OPERATION		
			6	B1	<u>PERSONNEL NOT CONDUCTING TESTS RETIRE TO ROAD-BLOCK (PA ANNOUNCEMENT)</u>		

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
T-80	2,10	1	N1	<u>*HELIUM STORAGE PREPARATION FINISHED (APPROX T-75)</u>		
			S1	TURN ON PLCU		
		2	L1	CHECK 100% FUEL LIGHT ON		
		1	L3	VERIFY AMOUNT OF FUEL FROM FUEL FACILITY LINE DRAIN WITHIN SPECIFICATIONS		
		1	T4	CHECK LAUNCHER BOOSTER PRESSURE FOR 7000 PSIG		
		2	T4	VERIFY OUTLET PRESSURE REG AT 6250 PSIG VERIFY 2000 PSIG LAUNCHER CONTROL PRESSURE AT LBU		
		3	T1	CHECK ALL WARNING LIGHTS OFF		
		4	T1	HOLDDOWN AND RELEASE READY LIGHT ON		
		5	T4	VERIFY LBU 2000 PSIG SYSTEM OUTLET VALVE OPEN		
		1	T3	TURN THRUST SECTION HEATERS ON		
		2	T3	CHECK LO2 TOPPING HEAT EXCHANGER PROBE AMPLIFIERS OK		
		11	1	K7	FILL LO2 TOPPING HEAT EXCHANGER	
		2,10	1	K7	<u>*SECURE GN2 TOPPING GEAR</u>	
			2	K7	OPEN BOTH GN2 TRAILER OUTLET VALVES AT GN2 TANKS	
		10	3	K1,S1	MONITOR FACILITY GN2	F1194P
			4	K7	DISCONNECT GN2 EVAPORATOR TRAILER FROM FACILITY 440V POWER RECEPTACLE	
			5	P1	LO2 PUMP C TOGGLE SWITCH TO OFF	CK LT
			6	K7	RECONNECT PUMP LC POWER CABLE	
			7	K1	REPORT TO STAND ENGINEER GN2 TOPPING SECURED	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-70	10	1	T1	<u>THEODOLITE OPERATOR REPORT MISSILE ALIGNMENT, SECURE STATION, REPORT TO ROADBLOCK</u>	
	2,10	1	B1	<u>*CLEAR TEST STAND AREA OF ALL PERSONNEL EXCEPT THOSE REQUIRED IN TRANSFER ROOM, PCU AREA, COMPRESSOR AREA, AND LO2 AREA (PA ANNOUNCEMENT)</u>	PSO CK
		2	Q1	<u>ALL TRAFFIC LIGHTS RED</u>	
		1	B8	<u>*ENTRANCE TO COMPLEX ROADBLOCK ESTABLISHED</u>	
	10	1	T3	TURN WATER ON FOR LN2 OVERFLOW	
	2,10	1	N1	<u>*HELIUM STORAGE START</u>	
		2	N1	BUS 4 PRESS RECORDERS ON SLOW	
		3	N3	OPEN LN2 MANUAL VALVES AT HEAT EXCHANGER OUTLET	
		4	N3	TURN ON LN2 PROBE AMPLIFIERS	
		5	N1	PUSH ADVANCE BUTTON-PRECOOL LT ON	
		6	N1	PUSH ADVANCE BUTTON-PRESSURIZE LT ON	
		7	N1	PUSH ADVANCE BUTTON - STORAGE LT ON	
		8	N3	WHEN OBSERVER REPORTS LN2 PRESENT AT MISSILE VENT RETURN VALVE TO BLEED POSITION	
		9	N3	CLOSE ENGINE CONTROL SUPPLY TRAILER VALVES	
		10	N3	OPEN BOTH HELIUM TRAILER I AND II OUTLET VALVES	
		11	N3	SET UP COMPRESSOR PANEL FOR HELIUM TRAILER BLEED TO MISSILE	
		12	N1	MONITOR BOTTLE PRESSURE TO EQUALIZATION WITH TRAILER SOURCE	
		13	N3	SET UP VALVE PANEL FOR CYCLING	
		14	N3	CLOSE HELIUM TRAILER BY-PASS VALVE ON VALVE PANEL	CK LT

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-70	2,10	15	N1	HELIUM COMPRESSOR SWITCH TO CYCLE	
		2,7	1	R1	<u>*GUIDANCE BEACON TESTING START</u>
	2,7	1	R1	CONFIRM THAT TRACK & RATE ARE DUMMY LOADED	
		2	R1,U1	GE POWER SWITCH TO ON	
T-65	2,9	1	S1	<u>*START LANDLINE ELECTRICAL CALIBRATIONS</u>	
		7	1	R1	GIVE GE TC PERMISSION TO RADIATE
	7	2	R8	GMCF LOCK ON MISSILE	
		3	R1	GE AIRBORNE REPORTS BEACONS ON AND STEADY	
T-60	2	1	B8	<u>*OPTICAL COVERAGE READINESS REPORT (SC)</u>	
		2	B8	<u>*WEATHER REPORT (SC)</u>	
	7	1	R8	<u>RANGE BIAS CHECK START</u>	
		6	1	G1	<u>LOOP TEST PREPARATION START FOR FLIGHT CONTROL SYSTEM</u>
	2		G1	DISCRETE SWITCH TO MANUAL DISCRETE	
	3		G1	DECADE TIMER SELECTOR TO LAUNCH TO STAGE PROG	
	4		G1	DECADE TIME POWER SWITCH ON	
	5		G1	RESET DECADE TIMER	
6	G1		CHECK SAFE-ARM SWITCH TO SAFE		
7	G1	CHECK LOOP TEST PATCH PANEL INSTALLED			
8	G1	READ-STANDBY SWITCH TO READ			

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TIME	OCAM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-60	6	9	Q1	VERIFY ROLL PROGRAMMER IS CORRECT	
		10	Q1	READ-STANDBY SWITCH TO STANDBY	
		11	Q1	INFORM BOTH FUEL PREVALVES OPEN	
		12	Q1	PROGRAMMER RUNNING TIME METER SET TO ZERO	
		13	Q1	LOOP TEST PREPARATION FINISH (APPROX T-50) (FLIGHT CONTROL SYSTEM)	
T-55	7	15	Q1	READ AND RECORD THE REQUIRED DATA IN THE APPROPRIATE COLUMN ON THE GUIDANCE EQUIPMENT DATA SHEET	
		1	R8	CHECK STATIC FLIGHT SWITCH TO STATIC RANGE BIAS CHECK FINISH	
T-50		1	R8	<u>GE LOOP TEST PREPARATION START</u>	
		1	R8	GE LOOP TEST PREPARATION FINISH	
	6,10	1	Q1, Q2	VERIFY GE TC THAT A/B IS RECEIVING \neq 100% PITCH AND \neq 100% YAW	
		1	R1	<u>*F/C AND PROP SYSTEM SW TO CH 7 (PA ANNOUNCEMENT)</u>	
	7	1	R1	<u>*CHANNEL 7 COMMUNICATION NET CHECKS (TO BE CALLED OUT BY GCO)</u>	
				<u>CALL OUT</u>	<u>RESPONSE</u>
		1	R8	FLIGHT DATA	FLIGHT DATA READY
		2	R8	TRACK	TRACK READY
		3	R8	RATE	RATE READY
		4	R8	COMPUTER	COMPUTER READY
		5	Q1	CONVAIR	CONVAIR READY
	T-60	1	Q1	<u>*LOOP TEST START</u>	
		1	Q1	START SANBORN RECORDERS (2.5 MM/SEC)	
		2	Q1	GYRO DISABLE SWITCH TO ACTIVATE	

LOOP
TEST
TIME
IN
SEC'S

TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-50	T-60	1	RS	THE APPROPRIATE GCO STARTS "SLO-COUNT"	
				<p style="text-align: center;"><u>NOTE</u></p> <p>ALL PITCH AND YAW METER CALLOUTS IN THIS LOOP TEST HAVE A \pm 20% TOLERANCE OF CALLED OUT VALUE.</p>	
	T-55				
	T-50			<u>TEST NO. 1</u> <u>TRACK RADAR POSITION CHECK</u>	
	T-40			MONITOR FOR FULL SCALE COMMANDS	
	T-35	1	MC	TRACK AND RATE RADAR ON MISSILE	
		1	GI	START SANBORN RECORDERS	
		1	RI	PLACE OSCILLOGRAPHIC RECORDER RECORD SWITCH TO MANUAL	
		1	RI	PITCH METER AT \pm 100 % AND YAW METER AT \pm 100% ON GE MONITOR PANEL	
	T-20	1	RI	REPORT GO IF METERS ARE AT 100%	
		2	RI	REPORT NO-GO IF METERS ARE NOT AT 100%	
		1	RI	<u>*TEST NO. 1 GO/NG GO</u>	
				<u>TEST NO. 2</u> <u>A/P ROLL PROGRAM CHECK</u>	
	T-10				
	T-5				
	T-4				
	T-3				
	T-2				
	T-1				
	ZERO	1	GI	PROGRAMMER START BUTTON PUSHED (HOLDDOWN 5 SEC) CALL OUT " <u>MARK</u> " TO GE	
		1	RI	PITCH METER AT \pm 0% and YAW METER AT \pm 0% ON GE MONITOR PANEL	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-50	T/1	1	G1, G2	MONITOR FOR NO BE MOVEMENT IN ROLL	
	T/2				
	T/3	1	G1, G2	MONITOR FOR CORRECT BE MOVEMENT IN ROLL FROM /3 TO /14 SECONDS	
	T/4				
	T/5				
	T/10	1	G1	<u>*TEST NO.2 CO/ NO GO</u>	
	T/15	1	G1	ROLL CHANNEL TO DISABLE	
				<u>TEST NO. 3</u>	
				A/P PITCH PROGRAMMER CHECK	
		1	G1, G2	MONITOR BE MOVEMENT IN PITCH	
	/25				
	/26				
	/27				
	/28				
	/29				
	/30	1	R8	GE TRACK RADAR DISPLACED	
		2	R8	COMPUTER GENERATES PITCH & YAW COMMANDS	
		3	R1	MONITOR FOR BE PITCH & YAW COMMANDS	
		4	R1	PITCH METER AT 20% LEFT AND YAW METER AT 20% RIGHT ON GE MONITOR PANEL (ALLOW FOR UP TO 7 SEC SETTLE TIME)	
		5	G1	MONITOR LOCKOUT OF GE PITCH AND YAW COMMANDS	
		6	G1, G2	MONITOR FOR NORMAL PITCH PROGRAM	
	/40				
	/50				
	/60				

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-50	/70				
	/80	1	G	<u>*TEST NO. 3 GO/NO GO</u>	
	/85	1	R8	GE TRACK RADAR REPLACED ON MISSILE	
		2	R1	GE PITCH METER RETURNS TO ϕ 0% (DO NOT REPORT)	
		3	R	GE YAW METER RETURNS TO ϕ 0% (DO NOT REPORT)	
				<u>TEST NO. 4</u>	
				<u>STAGING LOCK OUT CHECK</u>	
	/90				
	/100				
	/110	1	R8	COMPUTER GENERATES STAGING COMMAND	
		2	R1	MONITOR FOR GE STAGING COMMAND	
		3	R1	STAGING LIGHT COMES ON AND GOES OFF	
		4	R1	PITCH METER AT ϕ 0% AND YAW METER AT ϕ 0% ON GE MONITOR PANEL	
		5	G1	MONITOR LOCK OUT OF GE STAGING COMMAND	
		1	G1	*TEST NO 4. GO/NO GO	
	/115			<u>TEST NO. 5</u>	
				<u>STAGING COMMAND CHECK</u>	
	/120				
	/130				
	/135				
	/140	1	R8	COMPUTER GENERATES STAGING COMMAND	
		2	R1	MONITOR FOR GE STAGING COMMAND	
		3	R1	STAGING LIGHT COMES ON AND GOES OFF	
		4	R1	PITCH AND YAW METERS AT ϕ 0% ON GE MONITOR PANEL	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
T-50	/140	5	G1, G2	MONITOR FOR BOOSTER RETURN TO ZERO POSITION AND PITCH PROGRAM OFF		
		6	G1, C1	BOOSTER C-0 LIGHT ON		
		7	A1 G1	JETTISON BOOSTER LIGHT ON AT CORRECT TIME AFTER STAGING.		
	/145	2	G1	<u>*TEST NO 5 GO/NO GO</u>		
	/146	1	G1	VERNIER ENGINE BIAS INCREASED TO 50° AT CORRECT TIME AFTER STAGING		
		2	G1	MONITOR FOR 2ND STAGE PITCH PROGRAM <u>TEST NO.6</u>		
				<u>GE RATE YAW CHECK</u>		
			1	R8	RATE STATION SIMULATES YAW RATES (PITCH ZERO)	
			2	R8	COMPUTER GENERATES YAW RIGHT COMMANDS	
			3	R1	MONITOR FOR YAW RIGHT COMMAND	
			4	R1	PITCH METER AT / 0% AND YAW METER AT 50% RIGHT ON GE MONITOR PANEL	
			5	G1, G2	MONITOR FOR SE MOVEMENT YAW RIGHT	
			6	R8	RATE STATION HOLDS RATE UNTIL TEST 15 (T/288)	
	/150					
	/155			G1	<u>*TEST 6 GO/NO GO</u>	
					<u>TEST NO 7</u>	
					<u>SUSTAINER C-0 LOCK OUT CHECK</u>	
	/160	1	R8	COMPUTER GENERATES SE C-0 COMMAND		
		2	R1	MONITOR FOR SE C-0 COMMAND		
		3	R1	SUSTAINER C-0 LIGHT COMES ON AND GOES OFF		
		4	R1	PITCH METER AT 50% AND YAW METER AT / 90% RIGHT ON GE MONITOR PANEL		
		5	G1, C1	MONITOR FOR LOCK OUT OF SE C-0 COMMAND		
/163		6	G1	<u>*TEST NO. 7 GO/NO GO</u>		

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-50	/165			<u>TEST NO. 8</u> <u>GE RATE PITCH CHECK</u>	
		1	R8	RATE STATION SIMULATES PITCH RATES (YAW ZERO)	
		2	R8	COMPUTER GENERATES PITCH DOWN COMMAND	
		3	R1	PITCH METER 50% LEFT AND YAW METER AT 40% ON GE MONITOR PANEL	
		4	R1	MONITOR FOR PITCH DOWN MOVEMENT	
		5	G1, G2	MONITOR FOR SE MOVEMENT IN PITCH	
	/189	6	G	<u>*TEST NO. 8 GO/NO GO</u>	
				<u>TEST NO. 9</u> <u>GE TRACK YAW CHECK</u>	
	/190	1	R8	GE TRACK RADAR DISPLACE IN AZIMUTH	
		2	R8	COMPUTER GENERATES YAW LEFT COMMAND	
		3	R1	MONITOR FOR YAW LEFT COMMAND	
		4	R1	PITCH METER AT 40% AND YAW METER AT 20% LEFT ON GE MONITOR PANEL	
		5	G1, G2	MONITOR FOR SE MOVEMENT IN YAW LEFT	
	/200	6	G1	<u>*TEST NO. 9 GO/NO GO</u>	
	/210			<u>TEST NO. 10</u> <u>GE TRACK PITCH & YAW RATE CHECK</u>	
	/215				
16	16				
	17				
	18				
	19				
	/220	1	R8	GE TRACK RADAR DISPLACED IN ELEVATION, ZERO AZIMUTH	
		2	R8	COMPUTER GENERATES PITCH UP COMMAND, YAW RIGHT COMMAND	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-50	/220	3	R1	MONITOR FOR PITCH UP COMMAND, YAW RIGHT COMMAND	
		4	R1	PITCH METER AT 20% RIGHT AND YAW METER AT 50% RIGHT ON GE MONITOR PANEL	
		5	Q1, G2	MONITOR FOR SE MOVEMENT PITCH UP, YAW RIGHT COMMAND	
	/ 230	6	Q1	<u>*TEST NO. 10 GO/NO GO</u>	
	/235				
	/240	1	R8	GE TRACK RADAR REPLACED ON MISSILE	
	/250			<u>TEST NO 11</u>	
	/255			<u>VE TANKS PRESSURIZATION CHECK</u>	
	/259	1	R8	COMPUTER GENERATES VE TANKS PRESSURIZING COMMAND	
		2	R1	MONITOR FOR VE TANKS PRESSURIZING COMMAND	
		3	R1	VE TANKS PRESSURIZING LIGHT COMES ON AND GOES OFF	
		4	Q1	PVT LIGHT ON	
		5	R1	GE TRACK RADAR REPLACED ON MISSILE	
		6	R1	PITCH METER AT 0% AND YAW METER AT 50% RIGHT ON GE MONITOR PANEL	
	/260	76	Q1	<u>*TEST NO.11 GO/NO GO</u>	
				<u>TEST NO-12</u>	
				<u>SE C-0 COMMAND CHECK</u>	
	/266	1	R8	COMPUTER GENERATES SE C-0 COMMAND	
		2	R1	MONITOR FOR SE C-0 COMMAND	
		3	R1	SE C-0 LIGHT COMES ON AND GOES OFF	
		4	R1	PITCH METER AT 0% AND YAW METER AT 50% RIGHT ON GE MONITOR PANEL	
		5	Q1, Q1	SE C-0 LIGHT ON	
		6	Q1	<u>*TEST NO. 12 GO/NO GO</u>	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-50	/267			<u>TEST NO. 13</u>	
	/268	1	GI	<u>FIRE RETRO-ROCKET CHECK</u> FIRE RETRO-ROCKET	
		2	RI	PITCH METER AT / 0% AND YAW METER AT 50% RIGHT ON GE MONITOR PANEL	
	/275	3	GI	<u>*TEST NO 13 GO/NO GO</u>	
				<u>TEST NO.14</u>	
				<u>VE C-0 CHECK</u>	
	/268	1	R8	COMPUTER GENERATES VE C-0 COMMAND	
		2	RI	MONITOR FOR VE C-0 COMMAND	
		3	RI	VE C-0 LIGHT COMES ON AND GOES OFF	
		4	GI, CI	VE C-0 LIGHT ON	
		5	RI	PITCH METER AT /0% AND YAW METER AT 50% RIGHT ON GE MONITOR PANEL	
		6	RI	<u>*TEST NO 14 CO/NO GO</u>	
				<u>TEST NO. 15</u>	
				<u>YE YAW CHECK</u>	
	/288	1	RI	RATE STATION SIMULATE YAW LEFT FROM YAW RIGHT	
	2	RI	COMPUTER GENERATES YAW LEFT		
	3	RI	PITCH METER AT / 0% AND YAW METER GOES FROM 50% RIGHT TO 50% LEFT ON GE MONITOR PANEL		
/298	5	RI	<u>*TEST NO. 15 GO/NO GO</u>		
	2	RI	CHECK SEQUENCE RECORDERS ON SLOW		
/315	1	GI	<u>*LOOP TEST FINISHED (APPROX. T-40)</u>		
	2	GI	GYRO DISABLE SWITCH TO DISABLE		
	1	RI	STOP RECORDERS USED FOR LOOP TEST		
/400	1	GI	NOTIFY PROPULSION TO RESET WHEN PROGRAM ZERO LIGHT COMES ON		

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TDS	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-50	A00	2	CL	ENGINE RESET	
		3	CL	RESET HOLDING	
		4	CL	<u>*REPORT LOOP TEST GO/NO GO</u>	
		5	CL	<u>* ALL SYSTEMS RETURN TO SYSTEM CHANNELS</u>	
		2,7	1	B	<u>VERIFY ALL PERSONNEL EXCEPT MEN AT PCU AND TWO AT LO2 STORAGE AREA, AND TWO MEN IN THE TRANSFER ROOM DEPART TO ROADBLOCK.</u>
		2	BL	<u>*REMOVE ALL PRIVATE VEHICLES (PA ANNOUNCEMENT)</u>	
T-45	2,10	1	KL	<u>*LO2 TANKING PREPARATION START</u>	
	9,10	2	SL	BUS 2 RECORDERS ON SLOW	
		3	T3	CHECK PLCU AND AMPLIFIERS ON	
	10	4	K7	OPEN TU QN2 INLET VALVE	FMV 1-749
		5	K7	ADJUST REGULATOR ON TU PANEL TO 115 ± 5 PSIG	
		6	K7	LO2 STORAGE TANK PRESS. REGULATOR SET TO 40 PSIG	
		7	K7	CHECK 28v CONTROL CABLES, 440v CABLES, 110v CABLES, CONNECTED, BREAKERS CLOSED.	
		8	K7	CLOSE STORAGE TANK BOILOFF VALVE	FMV-1-333
		9	K7	OPEN STORAGE TANK ANGLE VALVE	FMV-3-534
		10	K7	OPEN AUXILIARY TANK PRESSURIZATION VALVE	FMV-2-534
		11	K7	CHECK LO2 LI E PURGE VALVE CLOSED	FMV-1-741
		12	K7	TURN PUMP LC PURGE ON (MANUAL OPERATION IN TU)	
		13	K7	CHECK STORAGE TANK FILL VALVE CLOSED	FMV-3-333
		14	K7	CHECK LO2 TO TEST STAND VALVE OPEN	FMV 2-530
		15	K7	CHECK HEAT EXCHANGER INLET VALVE OPEN	
		16	K7	CHECK DUMP VALVE OPEN	FV-237
		17	KL	CHECK LO2 PANEL POWER SWITCH AND LIGHT ON	
		18	KL	CHECK TEST POSITION SWITCH OFF	
		19	KL	CHECK VALVE CONTROL PRESSURE LIGHT ON	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS		
T-45	10	20	K1	CHECK ALL TU VALVE POSITION LIGHTS, ALL CLOSED EXCEPT LR-2 AND LR-3			
		21	K1	CHECK FILL AND DRAIN VALVE OPEN AND AIRBORNE VALVE CLOSED			
		22	K1	CHECK FUEL TANK FULL LIGHT ON			
		23	M1	PNEUMATIC STEP BUTTON CONTROL PUSH			
		24	M1	MONITOR FUEL TANK HELIUM PRESSURE (10 INCREASING TO 34.5 TO 36.5 PSIG)	CK LTS		
		25	K1	CHECK MISSILE PRESSURIZED LIGHT ON			
		26	K1	OPERATIONAL POWER SWITCH ON			
		27	K1	LR-3 PUMP INLET VALVE OPEN	CK LTS		
		28	K1	CHECK LR-1 PUMP RETURN VALVE CLOSED	CK LT		
		29	K7	CHECK STORAGE TANK VENT VALVE CLOSED	CK LT		
		30	K1	CHECK STORAGE TANK PRESSURIZING VALVE CLOSED			
		31	K1	CLOSE LR-2 PUMP RETURN VALVE			
		32	K1	OPEN LR-4 PUMP OUTLET VALVE	CK LT		
		33	K1	OPEN PUMP LA AND LB OUTLET VALVES	CK IF		
		34	K1	OPEN PUMP LA AND LB BY PASS VALVES	CK LT		
		35	K1	OPEN LC-2, COOLER INLET VALVE			
		36	K1	CHECK LC-1 OPEN, THROTTLE VALVE			
		37	K1	<u>LO2 SYSTEM READY FOR TANKING (APPROX T-35)</u>			
		2	1	B8	<u>*WEATHER REPORT (SC)</u>		
		2,10	1	B1	<u>*VERIFY ALL PERSONNEL OUT OF THE AREA EXCEPT TWO MEN AT LO2 AREA (P80)</u>		
		8	1	M1	MERCURY START PREPARATION FOR TLM CHECK NO. 3		
		T-40	7	1	B8	<u>GUIDANCE GROUND SYSTEM CHECKOUT START</u>	
		8	1	M1	MERCURY EXPLODE N2 CONAX VALVE		

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-40	8	1	MCI	MERCURY TURN-ON TLM POWER (EXT)	
T-35	2,10	1	KI	<u>*LO2 TANKING START</u>	
		2	SI	CHECK WEIGHT INDICATOR MONITOR	
		3	B1	PERISCOPE OBSERVER REPORT WHEN BOIL-OFF PLUME IS FIRST VISIBLE	
		4	K7	OPEN STORAGE TANK MANUAL OUTLET VALVE (FMV-1-530)	
		5	KI	OPEN STORAGE TANK PRESSURIZING VALVE AND MONITOR TO 40 PSIG APPROX.	
		6	KI	CLOSE PUMP LA AND LB BY-PASS VALVES	
		7	KI	ALLOW 30 SECONDS FOR CHILLDOWN	
		8	B1	REPORT LOCATION AND MAGNITUDE OF ANY LEAKS	
		9	KI	CLOSE DUMP VALVE	
		10	KI	CHECK FILL AND DRAIN VALVE OPEN LIGHT ON	
		11	KI	OPEN LO2 AIRBORNE VALVE-MARK	
		12	KI	AIRBORNE VALVE OPEN LIGHT ON	
		13	KI	ALLOW ADDITIONAL 90 SECONDS CHILLDOWN BEFORE STARTING PUMPS	
		14	K8	<u>*TWO MEN AT LO2 STORAGE AREA DEPART TO ROAD- (PA ANNOUNCEMENT)</u>	PSO CHECK
		15	SI	REPORT FIRST WEIGHT INCREASE FROM LOAD CELL MONITOR TO TANKING LEVEL	
		16	KI	TURN TANK PRE-FILL SWITCH ON	
		17	B1	OBSERVERS REPORT ANY LEAKS IN MISSILE LO2 SYSTEM	
		18	KI	CHECK OPEN PUMP LA AND LB OUTLET VALVES	CK LTS

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS		
T-35	2,10	19	K1	CLOSE LC-2 COOLER INLET VALVE			
		20	K1	START PUMPS LA AND LB			
		21	K1	LB RUN LIGHT ON, LA RUN LIGHT ON AFTER 10 SEC.			
		22	B1	REPORT PLUME FROM LO2 START TANK VENT (PERISCOPE AND TV)			
		23	K1	AT 92% LEVEL ON MISSILE TANK LEVEL METER, 95% PROBE LIGHT, STOP PUMPS LA AND LB			
		24	K1	START PUMP LC			
		25	K1	CLOSE PUMP LA AND LB OUTLET VALVES			
		26	K1	OPEN PUMP LA AND LB BY-PASS VALVES			
		27	K1	98% - 99% LEVEL ON MISSILE TANK LEVEL METER OPEN LC-2 COOLER INLET VALVE			
		28	K1	CLOSE LC-1 THROTTLE VALVE			
		29	K1	CLOSE FILL AND DRAIN VALVE			
		30	K1	OPEN DUMP VALVE			
		31	K1	WHEN INDICATION OF 99.5% FLT LEVEL ON MISSILE TANK LEVEL METER, DECREASE LO2 FLOW TO BOIL-OFF RATE (IF OVERFILL LIGHT BLINKS CONTINUOUSLY OR REMAINS STEADY, DISCONTINUE FILLING IMMEDIATELY)			
		32	B1	MONITOR FOR LO2 AT BOIL-OFF VALVE (PERISCOPE AND TV)			
		1	L1	CLOSE GROUND FUEL FILL AND DRAIN VALVE			
		T-35	2,5	1	K1	<u>*AZUSA CHECK START</u>	
				2	U1	AZUSA POWER SWITCH ON	
		T-35	8	1	MC 1	<u>MERCURY TURN ON TLM RF (COMPUTATORS ON)</u>	
		T-25	7	1	R8	<u>GUIDANCE GROUND SYSTEM CHECKOUT FINISH</u>	
				1	R8	<u>ACQUISITION PREPARATION START</u>	
				1	MT 1	MERCURY TLM CHECKS COMPLETE TLM RF OFF (COMPUTATORS OFF)	
		T-25	8	1	MC 1	MERCURY START PREPARATION FOR CONTROLS CHECK NO. 3	
				2	MC1	MERCURY BEACON "ON" (EXT) (REQUIRES 2 MIN RANGE RADAR OFF)	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-23 T-22	8 2,5 5	1	MC1	RANGE INTERROGATE MERCURY BEACONS	CK LTS
		1	E1	<u>*RSC FINAL TEST START</u>	
		1	E1	RSC SEL SWITCHES 1 & 2 TO EXTERNAL (WAIT 2 MINUTES BEFORE PROCEEDING BEYOND SEQUENCE 3)	
		2	E1	VERIFY MISSILE SAFE LIGHT ON, MISSILE ARMED LIGHTS OFF	
		3	E8	COMMAND CARRIER ON (SC)	
		4	E8	STAND BY TO SEND MANUAL CUT-OFF SIGNAL ON MARK	
		5	E8	SEND MANUAL CUTOFF SIGNAL (5 SEC) ON-OFF (SC)	
		6	E1	VERNIER ENGINE CUTOFF TEST LIGHTS 1 & 2 ON-OFF	
		7	E1	STAND BY TO SEND AUTO CUTOFF SIGNAL	
		8	E8	SEND AUTO CUTOFF SIGNAL (5 SEC) ON-OFF (SC)	
T-20	2 2,6 6	9	E1	SUSTAINER ENGINE CUTOFF LIGHTS 1 & 2 ON-OFF	ENG TEST RETURN TO CH. #3
		10	E8	AMR COMMAND CARRIER OFF (SC)	
		1	J5	VERIFY AMR READY FOR TLM SIGNALS IN 5 MINUTES	
		1	G	<u>*AUTOPILOT SYSTEM FINAL CHECK START</u>	
		2	G1	<u>AUTOPILOT GYRO TORQUE TEST START</u>	
		3	G1	REMOVE LOOP TEST PATCH PANEL, INSTALL GYRO PATCH PANEL	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
T-20	6,4	4	Q1	EXERCISE SELECTOR TO GYRO EXERCISE		
		5	Q1	SANBORN RECORDERS ON (1000/SEC)		
		6	6	Q1	GYRO DISABLE SWITCH TO ACTIVATE	
		7	Q1	EXERCISE START SW PUSH	LT ON	
		8	Q1	SANBORN RECORDERS TO STANDBY		
		9	Q1	GYRO DISABLE TO DISABLE		
		10	Q1	CHECK GYRO NULLS		
		11	Q1	<u>GYRO TORQUE TEST FINISH</u>		
		1	Q1	<u>A/P INTEGRATOR SERVO GIMBALLING TEST START</u>		
		2	Q1	REMOVE GYRO PATCH PANEL, INSTALL ENG PATCH PANEL		
		3	Q1	VERIFY SANBORN RECORDERS ON USE		
		4	Q1	ZERO SANBORN RECORDERS		
		5	Q1	EXERCISE SEL TO INTEGRATOR TEST		
		6	Q1	SANBORN RECORDERS ON (1000/SEC)		
		7	Q1	EXERCISE START BUTTON PUSH	LT ON	
		8	Q1	MONITOR SANBORN RECORDERS		
		9	Q1	EXERCISE LIGHT OFF		
10	J5, Q1	SANBORN RECORDERS TO STANDBY				
11	Q1	<u>A/P INTEGRATOR SERVO GIMBALLING TEST FINISH</u>				
12	Q1	CHECK STATIC FLIGHT SWITCH TO STATIC				
13	Q1	CHECK ARMED-SAFE SWITCH TO SAFE				
14	Q1, A7	A/P READY SWITCH ON	LT ON			
15	Q1	STATIC-FLIGHT SWITCH TO FLIGHT (LAUNCH ONLY)	READY LTS OFF			
16	Q1	ENGINE PSN CHANNEL ATTENUATOR TO X200				
17	Q1	CALIBRATE SANBORN RECORDERS				

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-20	10	1	Q1	CHECK COMMUNICATIONS WITH PUMP HOUSE	
		2	Q1	CONFIRM ALL 18" PUMPS & 36" PUMPS RUNNING	
T-17	2,4 4,5	1	J5	<u>*TELEMETRY WARMUP START</u>	
		2	E1	SET TLM VOLTAGE TO 28.5	
		3	E1, J5	TELEMETRY SWITCH TO EXTERNAL (NOTIFY SC)	CK LTS
		4	E1, J5	ACCESSORY SWITCH TO EXTERNAL	
		5	J5, J8	CHECK TLM RECEPTION AT TRAILER AND AMR	
		6	E1, J5	TLM COMPUTATORS ON	CK LTS
T-15	8	1	MCL	<u>MERCURY CAPSULE SWITCH TO INTERNAL POWER AND MAKE CHECKS OF TLM AND CONTROL SYSTEMS</u>	
		2	MCL	MERCURY TLM AND BEACONS RF ON INTERNAL	
		1	S1	BUS 3 SLOW	
	10	1	B1	SEAL BLOCKHOUSE DOOR AFTER SECURITY GUARD AND POWER MAN ARE INSIDE	PSO CK
		2	B1	<u>SMOKING PROHIBITED</u> (PA ANNOUNCEMENT)	
T-13	5 2,5	1	E8	VERIFY AZUSA CHECK SATISFACTORY (SC)	
		2	E1	<u>*AZUSA CHECK FINISH</u>	
T-12	9	1	S1	STANDARDIZE ALL BROWN RECORDERS, VERIFY ALL PENS INKING, AND MARK CHARTS	
		2	S1	CHECK TIMING ON ALL RECORDERS	
	8	1	MCL	MERCURY CHECKS ON INTERNAL POWER COMPLETE SWITCH TO EXTERNAL POWER	
		2	MCL	MERCURY CONTROLS CHECK NO. 3 COMPLETE GO/NO-GO	
		3	MCL	MERCURY TLM CHECK NO. 3 COMPLETE GO/NO-GO	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
T-10	7	<u>1</u>	R8	<u>ACQUISITION PREPARATION FINISH</u>		
	2,4	1	J5	<u>*TLM WARMUP FINISH, FINAL CHECK START</u>		
	4,5	<u>2</u>	J5, J8	CHECK TLM RECEPTION AT TRAILER AND AMR STATION		
	5,4	1	E1, J5	VERIFY TLM TRAILER MONITORING FOR R/S COMMAND AGC CHANGE		
			2	E1	RSC SELECTOR SWITCHES 1 AND 2 TO INTERNAL (MAXIMUM 1 MINUTE)	
	5	3	E8	AMR COMMAND CARRIER ON (SC)		
			4	E1	CHECK VOLTAGES BAT #1 AND #2 ON INTERNAL	
	5,4	5	J5	TLM TRAILER REPORT ON AGC LEVEL		
			6	E1	RSC SELECTOR SWITCHES 1 AND 2 TO EXTERNAL	
	2,5	<u>7</u>	E1	<u>*RSC FINAL TEST FINISH</u>		
	7	1	R1	<u>DATA LINK TEST START (WITH DISCRETES)</u>		
			<u>2</u>	R1	<u>DATA LINK TEST FINISH APPROX. T-5 MINUTES</u>	
	T-7	2	1	B8	<u>*FORECAST FINAL RANGE CLEARANCE FROM AMR (SC)</u>	
		7		R1	BLOCKHOUSE GUIDANCE READY SWITCH ON	ROAD BLOCKS MUST BE SECURED
9		1	S1	CHECK EQUALIZATION AND SENSITIVITY SETTINGS, Z-32, Z-33, Z-34	CALIBRATED SETTINGS Z-32, Z-33, 60 G's Z34 130 G's	
		<u>2</u>	S1	<u>*RCC INACTIVE-ACTIVE SWITCH TO ACTIVE</u> <u>Z-32, Z-33 & Z-34</u>		
<p>HOLDING PT WHEN NECESSARY: UPON INSTRUCTIONS FROM TC, ALL SYSTEMS RECYCLE TO THIS TIME STATUS FOR HOLDING AND REMAIN ON CHANNEL 1. PRIOR TO PICKING UP THE COUNT ALL SYSTEMS REPORT GO OR NO GO STATUS TO THE TEST CONDUCTOR IN ORDER CALLED OUT BELOW:</p>						

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
				<u>*STATUS CHECK</u>	
				(TC COMMAND)	(RESPONSE)
T-7	1	1	C1	<u>*PROPULSION</u>	<u>GO/NO GO</u>
		2	G1	<u>*AUTOPILOT & HYDRAULICS</u>	<u>GO/NO GO</u>
		3	R8	<u>*GUIDANCE & IF AIRBORNE</u>	<u>GO/NO GO</u>
		4	U1	<u>*RF SYSTEM</u>	<u>GO/NO GO</u>
		5	S1	<u>*LANDLINE INSTRU.</u>	<u>GO/NO GO</u>
		6	J5	<u>*TELEMETRY</u>	<u>GO/NO GO</u>
		7	MCI	<u>*MERCURY</u>	<u>GO/NO GO</u>
		8	L1	<u>*FUEL & LO2 CONTROL</u>	<u>GO/NO GO</u>
		9	N1	<u>*PNEUMATICS</u>	<u>GO/NO GO</u>
		10	Q1	<u>*WATER SYSTEMS</u>	<u>GO/NO GO</u>
		11	P1	<u>*COMPLEX ELECTRICAL</u>	<u>GO/NO GO</u>
		12	U1	<u>*MISSILE POWER</u>	<u>GO/NO GO</u>
		13	R8	<u>*GE GUIDANCE (GROUND STA)</u>	<u>GO/NO GO</u>
		14	B8	<u>*RANGE SUPPORT (SRO)</u>	<u>GO/NO GO</u>
		15	B8	<u>*AZUSA</u>	<u>GO/NO GO</u>
T-6	1	1	K1	<u>INCREASE LO2 LEVEL TO 100.4% AND HOLD TOPPING</u>	
T-5	1	1	A1	<u>*ALL COMMUNICATIONS SWITCH TO CH 1 (PA ANNOUNCEMENT)</u>	
		1	A1	<u>*ALL PERSONNEL AND VISITORS REMAIN IN PRESENT POSITION UNTIL COMPLETION OF STAFF OR LAUNCH AND UNTIL BLOCKHOUSE DOORS ARE OPEN</u>	
		1	MCI	MERCURY UNCAGE AND ORIENT GYROS	
		2	MCI	MERCURY CHECK RECOVERY BATTERY	
		3	MCI	MERCURY START CAPSULE PURGE	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-5	1	1	R1	TURN ON PURGE POWER	
		2	D1	GAS GENERATOR PURGE SWITCH "ON"	
		1	ALL	<u>ALL ASTERISK ITEMS BETWEEN T-5 & T-3 WILL BE CALLED OUT BY PERSON DOING OR OBSERVING THE ACTION</u>	
		1	R1	<u>DATA LINK TEST FINISH</u>	
		1	R1	<u>TEST #1 OF LOOP TEST START (FINISH 2:10)</u>	
		1	B8	GUIDANCE READY SWITCH TO ON	
T-4	1	1	U1	BATTERY ACTIVATE SWITCH TO ON	
T-3:50	1	1	A1	<u>STATUS CHECK</u>	
			(TC COMMAND)	(RESPONSE)	
		1	B8	<u>*AZUSA</u>	<u>*GO/NO GO (SRO)</u>
		2	B8	<u>*GE GUIDANCE</u>	<u>*GO/NO GO (GRCF)</u>
		3	NCL	<u>*MERCURY CAPSULE</u>	<u>*GO/NO GO</u>
		4	B8	<u>*AMR TLM</u>	<u>*GO/NO GO (SRO)</u>
		5	J5	<u>*TELEMETERING QUALITY</u>	<u>*GO/NO GO (TRAILER)</u>

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-3:30	1	1	A1	<u>*T-30 MINUTES 30 SECONDS AND COUNTING</u>	
		1	K1	<u>*TELEMETRY TO INTERNAL</u>	
		2	K1	TELEMETRY SWITCH TO INTERNAL	CK LT
T-3	1	3	K1	ACCESSORY SWITCH TO INTERNAL	CK LT
		1	A1	<u>*TIMER OFF-READY SWITCH TO READY</u>	
		2	A1	TIMER READY LIGHT ON	
		3	A1	CK ENGINE CUTOFF TIMER SET FOR 10 SECONDS AUTOMATIC CUTOFF (LAUNCH)	
T-2:40	1	4	A1	CK ENGINE CUTOFF TIMER FOR 20 SECONDS AUTOMATIC CUTOFF (STATIC)	
		1	U1	INVERTER SW ON	
T-2:30		1	J8	AMR TIM RECORDERS ON (SC) (STATIC)	
		1	Q1	<u>*TURNING WATER SYSTEMS ON</u>	
		2	Q1	FLAME DEFLECTOR MAIN SUPPLY VLV SW OPEN	
		3	Q1	FLAME DEFLECTOR MAIN SUPPLY VALVE OPEN LIGHT ON-CLOSE LIGHT OFF	
T-2:10	10	4	Q1	OPEN THROTTLE VLV TO 15000 GPM POSITION	
		1	K1	<u>*SECURING LO2 TANKING</u>	
		2	K1	PUMP LC STOP BUTTON PUSH	
		3	K1	CLOSE AIRBORNE VALVE	
		4	K1	CLOSE LR 3 PUMP INLET VALVE	
		5	K1	OPEN LO2 FILL AND DRAIN VALVE. MONITOR LOAD CELLS FOR CHANGE IN WEIGHT	
		6	K1	CK DUMP VALVE OPEN	
		7	K1	OPEN LC 1, THROTTLE	
		8	K1	STEP 3 PERMISSION SW ON	CK LT ON
9	K1	CLOSE STORAGE TANK PRESSURIZATION VALVE			

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-2:05	1	1	AI	<u>*AMR TLM RECORDERS ON (MERCURY)</u>	
T-2:00	1	1	RI	<u>TEST #1 OF LOOP TEST FINISH</u>	
		2	UI	ADJ EXT 400 CYCLE VOLTAGE TO MATCH INTERNAL VOLTAGE	
		3	UI	ADJ EXT 400 CYCLE FREQ TO MATCH INTERNAL FREQ	
		1	EI	<u>*COMMANDS TO INTERNAL</u>	
		2	EI	COMMAND SELECT SWITCHES 1 AND 2 TO INTERNAL	CK LTS
		1	NI	<u>*STARTING FLIGHT PRESSURIZATION</u>	STEP
		2	NI	STEP BUTTON PUSH	II LT OFF
		3	NI	BOIL OFF VALVE CLOSED LIGHT ON	III LT ON
		4	BI	OBSERVER CK PLUME STOP (PERISCOPE)	
T-1:55	1	1	PI	BLOCKHOUSE BLOWER OFF	
T-1:45	1	1	AI	<u>*ARM SWITCH TO ARM</u>	108,109 CH
		2	A	<u>ARMED LIGHT ON</u>	
		3	AI	<u>*ENGINE PREPARATION COMPLETE LIGHT ON</u>	
T-1:40	1	1	UI	<u>*MISSILE TO INTERNAL POWER</u>	
		2	UI	POWER EXTERNAL INTERNAL SELECTOR SWITCH TO INTERNAL	CK LT
		3	AI	<u>INTERNAL POWER READY LIGHT ON</u>	PRE START & FUNCTION SAFE, 88 ON
		4	CI	CHECK ENGINE BUS VOLTAGE 26 VOLTS MINIMUM (NEG REPORT)	
		1	MC 1	MERCURY READY SWITCH TO ON	
		2	MC 1	MERCURY CAPSULE TLM AND CONTROL SYSTEMS TO INT POWER	
		3	MR 2	MERCURY CK RECOVERY BATTERY	
T-1:35	1	1	MC 1	<u>*MERCURY REPORT SOURCE TO INT</u>	
		2	AI	<u>MERCURY READY LIGHT ON (R.C.C.)</u>	
		1	MC 1	AMR RADAR FUNCTION RECORDERS ON (MERCURY)	

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TIMR	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
T-1:25	1	1	K1	<u>*REMOVING ARMING SAFETY PIN</u>	(R/S PANEL)	
		2	K1	REMOVE SAFETY PIN FROM ARM POSITION OF SWITCH		
		1	K1	<u>*R/S SAFE/ARM SWITCH TO ARM</u>		
		2	K1	<u>MISSILE ARMED LIGHT ON, MISSILE SAFE LIGHT OFF</u>		
		3	K1	REMOVE READY SW SAFETY PIN		
T-1:15		4	E1	<u>RF SYSTEMS READY SWITCH ON</u>	CK LT	
		5	A1	RANGE SAFETY, RANGE SAFETY INTERNAL AND TELEMETRY LIGHTS ON		
				<u>STATUS CHECK</u>		
				(TC COMMAND) (RESPONSE)		
		1	U1	<u>*MISSILE POWER</u>		<u>*GO/NO GO</u>
		2	U1	<u>*RF SYSTEMS</u>		<u>*GO/NO GO</u>
		3	Q1	<u>*PROPULSION</u>		<u>*GO/NO GO</u>
		4	B8	<u>*AMR TLM</u>		<u>*GO/NO GO (ERO)</u>
		5	J5	<u>*TELEMETERING QUALITY</u>		<u>*GO/NO GO</u>
		6	MC 1	<u>*MERCURY</u>		<u>*GO/NO GO</u>
T-60 SEC		1	A1	<u>*TC ANNOUNCE "T-60SECONDS AND COUNTING"</u>		
		1	K1	CLOSE LO2 FILL AND DRAIN VALVE, CHECK WT. CHANGE		
		1	N1	VERIFY SEQ III LT ON & SEQ III PRESSURE STABLE		
		1	N1	<u>*MISSILE HELIUM TO INTERNAL</u>		
		2	S1	BUS 4 PRESSURE RECORDERS ON FAST		
		3	N1	STEP BUTTON PUSH		
		4	N1	INTERNAL LIGHT ON		
		5	Q1	<u>*AUTOPILOT TO ARM (LAUNCH ONLY)</u>		

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-60 SEC	1	6	AI, Q1	AUTOPILOT READY LIGHT ON	10 SEC DELAY ON LAUNCH
		1	Q1	<u>*WATER FULL FLOW</u>	
		2	Q1	FLAME DEFLECTOR THROTTLE VALVE SWITCH FULL OPEN	
		3	B1	<u>*PSO RANGE READY SWITCH ON</u>	
		4	AI	<u>RANGE READY LIGHT ON GREEN</u>	
		5	Q1	CK WATER FLOW SATISFACTORY (PERISCOPE & FLOWMETER)	
		6	Q1	<u>WATER SYSTEM READY SWITCH ON</u>	
		7	AI	<u>WATER SYSTEM READY LIGHT ON GREEN</u>	
T-55 SEC	1	1	MCI	MERCURY COOLING OFF - VALVES CLOSED	Q500LF
	2	AI	MERCURY LIFT-OFF SWITCH TO ARM		
T-45 SEC	1	1	MI	CLOSE EMERGENCY BOIL-OFF VALVE CLOSE LIGHT ON	
				<u>STATUS CHECK</u>	
				(TC COMMAND) (RESPONSE)	
	1	MI	<u>*PRESSURIZATION</u>	<u>*GO/NO GO</u>	
	2	Q1	<u>*WATER SYSTEMS</u>	<u>*GO/NO GO</u>	
	3	AB	<u>*RANGE OPERATIONS</u>	<u>*GO/NO GO (SRO)</u>	
	4	K1	<u>*LO2 TANKING</u>	<u>*GO/NO GO</u>	
	5	MCI	<u>*MERCURY</u>	<u>*GO/NO GO</u>	
	5A	MCI			
	6	AI	<u>*ALL PRE-START PANEL LIGHTS ARE CORRECT</u>		
	7	AI	<u>*READY LIGHT ON</u>		
	8	MCI	<u>*MERCURY READY LIGHT ON</u>		
			<u>HOLDING POINT</u>	(WHEN NECESSARY)	
T-26 SEC		1	AI	<u>*EJECT MERCURY UMBILICAL (LAUNCH ONLY)</u>	
		2	R1	MERCURY UMBILICAL TOWER RETRACT SWITCH "ON" (LAUNCH ONLY)	
		3	B1	<u>*MERCURY BOOM CLEAR (PERISCOPE OBS)</u>	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-25	1	1	AL	* <u>LINE DUMP</u> (TC COMMAND)	
		2		COMPRESSOR SW TO IDLE	
		3	NL	SHUTDOWN BUTTON PUSH	
		4	NL	OPEN LINE DUMP SW	
		5	SL, NL	MONITOR BOTTLE PRESSURE FOR ANY CHANGE	
		6	NL	* <u>PRESSURIZATION</u>	* <u>GO/NO GO</u>
T-19	1	1	AL	* <u>OIL EVACUATE</u> (TC COMMAND)	ENG. CONT PRESS ABOVE 2950#
		2	HL	EVACUATION SW TO OIL EVACUATE (BE & SE)	
		3	HL	* <u>EVACUATION LTS ON</u>	
T-19	1	1	UB	AMR TLM RECORDERS ON	
		1	AL	SEQUENCER HOLDS UNTIL START BUTTON PUSH	
T-18	1	1	AL	* <u>ENG ANNOUNCE:</u> (AFTER RANGE SEQ STOPS AT T-18 SEC)	
		2	AL	* <u>ALL RECORDERS TO FAST</u>	*INCL TLM TLR
		3	AL	* <u>T-18 SECONDS AND COUNTING</u>	
		1	AL	* <u>ENGINE START</u>	
		2	AL	* <u>ENGINE START BUTTON PUSH</u>	
		3	AL	SEQUENCER STARTS	
		4	TL	PERISCOPE CREW BOTH VERNIER LO2 VENTS CLOSED (NEXT REPORT)	
5	AL	ENGINE FUEL TANK PRESSURIZED LIGHT ON			
6	AL	ENGINE LO2 TANK PRESSURIZED LIGHT ON			
7	UL	THRUST SECTION HEATER SW OFF			

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T-10 SEC	1	1	E1	PERISCOPE OBSERVER CHECK POSITION OF MERCURY BOOM (NEG REPORT) (LAUNCH ONLY)	
T-3.5 SEC	1	1	C2	<u>VERNIER SQUIBS FIRING</u>	
T-3		1	A1	VERNIER COMPLETE LIGHT ON	
		2	A1	IGNITION COMPLETE LIGHT ON	
		3	A1	INTERNAL HYD READY LT ON	
T-2 SEC		1	C1	<u>*MAIN ENGINE COMPLETE</u>	
		2	Q1	SKIRT FIREX SWITCH ON	
ZERO		1	A1	<u>*RELEASE (AUTO) - LIFT-OFF SIGNAL TO MERCURY CAPSULE (STATIC ONLY)</u>	
T-2 sec		2	B8	FASTAX 35 MM NON TRACKING CAMERAS START & AUTO 2D SET	
		3	B8	METRIC CAMERAS START	
T-3.5 SEC		1	Q1	EXERCISE START SWITCH PUSH (STATIC ONLY)	
				<u>NOTE</u>	
				FOR LAUNCH PLUS TIME TURN TO PAGE 49 (LAUNCH ONLY)	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
T/20 SEC	1	1	CI, A1	<u>STATIC PLUS TIME AND LAUNCH ABORT</u> <u>BE SE AND COMPLETE CUTOFF LIGHTS ON</u>	
		2	CI	<u>*CUTOFF</u>	
		3	DL	LO2 DOME PURGE SWITCH ON	
		4	CI	VERNIER VALVES CLOSED LIGHTS ON	
		5	CI	GG VALVES CLOSED LIGHT ON	
		6	CI	MAIN FUEL VALVES CLOSED LIGHT ON	
		7	CI	MAIN LO2 VALVES CLOSED LIGHTS ON	
		8	A1	INTERNAL HYDRAULIC PRESSURE LIGHT OFF	85 OFF
		9	M1	STEP III LIGHT ON	
		10	HL	HYDRAULIC OIL EVACUATION SWITCH TO STANDBY (SUSTAINER).	
		11	CI	ENGINE RESET	
		12	CI	RESET HOLDING	
		12a	M1	OPEN EMERGENCY BOILOFF VALVE. CLOSED LIGHT OFF RES/STEP BUTTON PUSH	
		13	M1		
		14	M1	BOILOFF VALVE OPEN LIGHT ON	
		15	M1	SEQ II LIGHT ON	
		16	EL	RF SYSTEMS READY SWITCH TO OFF	
		17	EL	RANGE SAFETY SWITCH TO SAFE	
		18	Q1	TOP SURFACE COOLING (ON STANDBY)	
		19	CI	SAFE-ARM SWITCH TO SAFE (LAUNCH ABORT)	
		1	KL	<u>HELIUM SWITCH TO DUMP</u>	
		2	KL	MAINTAIN 1000 / 100 PSIG UNTIL CLEARED BY PROPULSION	
		1	KL	STEP III PERMISSION SWITCH OFF WHEN SEQUENCE II STABLE	
		1	UI	MISSILE POWER TO EXTERNAL	CK LTS
		2	UI	INVERTER SWITCH OFF	CK LTS

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
<u>STATIC PLUS TIME AND LAUNCH ABORT</u>						
T/20 SEC	1	1	E1	RSC SELECTOR SWITCHES 1 AND 2 TO OFF	CK LTS	
		1	B1	<u>*OBSERVER REPORT MISSILE STATUS</u>		
T/50 SEC		1	C1	PROPULSION VERIFY SOURCE OF CUTOFF		
T/52 SEC		1	A1	<u>*FIREX OFF & FLAME DEFLECTOR ON LOW (TC COMMAND)</u>		
		2	Q1	<u>SKIRT FIREX SW OFF</u>		
		3	Q1	<u>CLOSE FLAME DEFLECTOR GATE VALVE UNTIL PERISCOPE OBSERVER REPORT FLOW SATISFACTORY</u>		
		4	R1	<u>*MISSILE STATUS OK (PERISCOPE REPORT)</u>		
		5	A1	<u>*RECOVERIES ON SLOW</u>		
		6	S1	<u>*CYCLES/XRAPH8 OFF</u>		
		7	K1	VERIFY RED WT INDICATOR LIGHT ON		
		8	FL	HYD GROUND PUMP STOP BUTTON PUSH (BOOSTER)		
		9	HL	BYPASS VALVE CLOSE LIT OFF-OPEN LIT ON		
		10	HL	PUMP RUN LIGHT OFF		
		11	HL	HYDRAULIC OIL EVACUATION LIT OFF (BOOSTER)		30 SEC DELAY
				12		HL
T/1		1	A1	<u>*ARM SWITCH OFF</u>		
		1	A1	<u>*DETANK LO2 WHEN READY (TC COMMAND)</u>		
		2	S1	VERIFY ACOUSTICA READY TO MARK		
		3	M1	ADVISE LO2 PANEL OPERATOR WHEN SEQ II STABILIZES		
		4	K1	VENT LO2 STORAGE TANK		
		5	K1	CHECK DUMP VALVE OPEN		
		6	K1	OPEN FILL & DRAIN VALVE		
		7	K1	OPEN AIRBORNE VALVE		
8	K1	WHEN STORAGE TANK PRESS. READS 10 PSIG OR LOWER OPEN LR-2 & LR-3 GRAVITY RETURN PUMP INLET				

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS			
T/1 MIN	1	9	K1	STATIC PLUS TIME AND LAUNCH ABORT CLOSE DUMP VALVE	F500LP			
		10	K1	MONITOR MISSILE LO2 TANK PRESS				
		11	K1	ONE MINUTE AFTER WEIGHT SYSTEM SHOWS NO CHANGE, CLOSE AIRBORNE VALVE				
		12	S1	RECORD WEIGHT SYSTEM READING				
		13	K1	OPEN DUMP VALVE				
		14	K1	CLOSE LR-3 PUMP INLET VALVE				
		15	K1	TURN OFF PRE-FILL SWITCH				
		16	M1	PUSH RESTEP BUTTON TO SEQUENCE I.		CK LT		
		17	K1	<u>*REPORT TO TC WHEN LO2 TANK EMPTY AND IN STAGE I PRESS. (T/1:39 MIN)</u>				
				1		MCL	MERCURY SWITCH TO EXTERNAL POWER	
				2		MCL	AMR RECORDERS OFF (MERCURY)	
				3		MCL	MERCURY BEACONS OFF	
				4		MCL	MERCURY RF OFF	
				5		MCL	MERCURY PROCEED TO TURN OFF CAPSULE POWER	
		T/1:05	1	1		K1	TELEMETRY AND ACCESSORY SWITCHES TO EXTERNAL	CK LTS
				2		E8	<u>AMR COMMAND CARRIER OFF (BC)</u>	
		T/2 MIN	1	1		TL, A1	<u>*OPEN BLOCKHOUSE VENTS AND INTAKE AND TURN ON BLOWERS AND AIR-CONDITIONING</u>	PSO CK
2	U1			<u>AZUSA POWER OFF</u>				
3	U1			<u>GE SYSTEMS POWER OFF</u>				
4	S1			<u>TURN RCC POWER OFF</u>				
5	S1			RUN LANDLINE POST TEST ELECTRICAL CALIBRATION				
T/2:02 MIN	1	1	F1	MERCURY UMBILICAL (STATIC ONLY)				
		2	R1	MERCURY UMBILICAL TOWER RETRACT SWITCH ON (STATIC ONLY)				

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
				<u>STATIC PLUS TIME AND LUNCH ABOARD</u>		
T/2:02	1	1	A1	<u>*ALL COMMUNICATIONS SWITCH TO SYSTEM CHANNELS</u>		
		2	F1	OPEN BLOCKHOUSE SEAL		
		3	J5,E1	TLM AND ACCESSORY SW OFF COMM OFF (TC APPROVAL)		
		4	E1	BATTERY ACTIVATE & HEATER SW TO OFF		
		5	E1	RF SYSTEMS PANEL POWER OFF		
		6	E1	<u>SMOKING PERMITTED (PA ANNOUNCEMENT)</u>	PSO CK	
T/10 MIN	3	1	D1	GAS GENERATOR PURGE SWITCH OFF		
		10	1	Q1	SHUT OFF FLAME DEFLECTOR WATER	
			2	S1	BUS 1 OFF	
T/ 35 MIN	2	1	B1	<u>*PSO VERIFY PAD SAFE TO ENTER</u>		
		2	R1	<u>*HANGER STANDBY CREW REPORT TO COMPLEX</u>		
		3	2	B2	SECURING TEAM REPORT TO MISSILE	
			4	R2	REPORT SAFE TO ENTER PAD AREA	PSO CK
			5	T2	INSPECTION TEAM #1 ENTER AREA	
			6	T2	INSPECTION TEAM #2 ENTER AREA	
		2	7	T4	SHUTDOWN 6000 PSIG HOLDDOWN SYSTEM (STATIC)	
		10	1	L1	<u>*FUEL DETANKING START</u>	PSO CK
			2	L1	CHECK TANK FILL SWITCH OFF	
			3	M1	CHECK PRESS PANEL IN STAGE I	
			4	L1	CHECK OPEN FUEL PRE-VALVE	
			5	L1	OPEN MISSILE AND GROUND FILL AND DRAIN VALVES	
			6	M1	MONITOR MISSILE FUEL TANK PRESSURE	F5003P

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS	
				<u>STATIC PLUS TIME AND LAUNCH ABORT</u>		
T/35 MIN	10	7	L1	CLOSE AIRBORNE AND GROUND FUEL, FILL AND DRAIN VALVES WHEN LOAD CELLS INDICATE INSUFFICIENT DECREASE		
		8	L1	<u>*MISSILE FUEL DETANKING FINISH (APPROX T/55 MIN)</u>		
		9	L7	SECURE FUEL AREA ACCORDING TO FUEL STORAGE CONDITION CHECK LIST (FIN APPROX T/60 MIN)		
T/40 MIN	11	1	T3	TOWER CREW REPORT TO TOWER		
		2,11	R1	<u>*VERIFY GE RADIATION TESTS FINISHED (GMC)</u> (STATIC ONLY)		
		3	T5	<u>*START TOWER REPLACEMENT OPERATION (FINISH APPROX T/90 MIN.)</u>		
T/90	3	1	C2	ENGINE PERSONNEL REPORT TO MISSILE		
		2	C2	PULL AC CIRCUIT BREAKERS		
		3	C2	START ENGINE SECURING PER PROCEDURE WHEN FUEL DETANKING IS COMPLETE (FIN APPROX T/2 HRS.)		
		10	4	HL	HYDRAULIC OIL EVACUATION SW TO OIL EVACUATE (SE)	LT ON
		5	HL	HYD GROUND PUMP STOP BUTTON PUSH AFTER THE FUEL PREVALVES ARE CLOSED (SE)		
		6	HL	BYPASS VALVE CLOSED LT OFF-OPEN LT ON		
		7	HL	PUMP RUN LT OFF		
		8	HL	HYD OIL EVACUATION LT OFF (SE)	30SEC DELAY	
		9	HL	OIL EVACUATION SW TO STANDBY (SE)		
T/90	11	1	T3	SECURE COMPLEX OPERATIONS START		
		2	C2	DISCONNECT PU MANOMETERS		
		5	1	T2	OPEN DESTRUCT ACCESS COORS	
		2	E2	VERIFY FUSES NOT BLOWN ON INERT BOX (STATIC ONLY)		
		3	E2	REMOVE CONNECTORS FROM DESTRUCT BOX REPLACE SHOCKING PLUG; REPLACE ARMING SAFETY WIRE; REMOVE RED DESTRUCT BOX (LAUNCH ABORT ONLY)		

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
<u>LAUNCH ONLY</u>					
ZERO	1	1	HL	<u>*PERISCOPE OBSERVER REPORT LIFT OFF</u>	
		2	C3	CONTROLLED ACCELERATION START	
		3	B8	FIRST MOTION SIG TO RANGE INSEL (AUTO) 2 IN	
		4	G2	AUTOPILOT FLIGHT PROGRAMMER START (AUTO)	
		5	Q1	ENG COMP WATER SW ON	
		6	Q1	TURN MONITOR NOZZLES ON	
		7	HL	CHECK BYPASS VALVE CLOSED LIGHT OFF, OPEN LIGHT ON, PUMP LIGHT OFF (HE & SE)	
		8	HL	CHECK HELIUM VALVE OPEN LIGHT OFF	
		9	C2	CONTROLLED ACCELERATION FINISH	
		10	G2	UMBILICAL RELEASE (6-8 IN) (AUTO)	
		11	B8	FIRST GRAPHIC CAMERA START	
		12	C1	ENG BUS VOLTAGE TO ZERO	
T/3 SEC	1	1	B8	FASTAX 35 MM NON-TRACKING CAMERAS STOP AUTO 1st SET	
T/5 SEC	1	1	SL	BUS OFF	
		2	SL	TURN L/L REDUCER EXCITATION POWER SUPPLIES OFF	
T/30 SEC	1	1	SL	<u>*ON TEST CONDUCTOR COMMAND "SYSTEMS SHUTDOWN" PERFORM THE FOLLOWING</u>	
		2	Q1	SHUT OFF FLAME DEFLECTOR WATER	
		3	HL	SECURE R/P SYSTEMS PANEL	
		4	UL	SECURE MISSILE FWR PANEL	
		5	Q1	SECURE A/P PANEL	
		6	HL	SECURE HYDRAULIC PANEL	

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TIME	COMM CK	SEQ	SYS & AREA	DESCRIPTION	REMARKS
				<u>LAUNCH ONLY</u>	
T/30	1	7	FI	MEL EQUP HEAT & BATTERY CHARGERS OFF	
		8	AI	SECURE TC CONSOLE	
		9	FI	MEL AC GEN SW OFF	
		10	DI	SECURE PURGE PANEL	
		11	FI	MEL HEATER TRANSFORMER SW OFF	
		12	FI	MEL POD AIR COOLER SW OFF	
		13	FI	MEL AIR CONDITIONER SW OFF	
T/60 SEC	1	1	Q1	TOP SURFACE COOLING WATER IF NECESSARY	
T/90 SEC	1	1	BB	FASTAX 35 MM NON-TRACKING CAMERAS STOP AUTO (2ND SWT)	
T/2 MIN	1	1	Q1	SECRET FIREX SW OFF	
		2	Q1	MONITOR NOZZLES OFF	
		3	Q1	ENGINE COMP COOLING SW OFF	
		4	SL	RUN LANDLINE POST TEST ELECTRICAL CALIBRATION	
T/3 MIN	1	1	EL	<u>*PHO CK FOR LIMITED ACCESS TO PAD</u>	
		2	T1	SHUTDOWN DOCUMENTARY CAMERAS	
		3	FI	OPEN BLOCKHOUSE SEAL, TURN ON BLOCKHOUSE BLOWERS	
		4	EL	<u>*SMOKING PROHIBITED (PA ANNOUNCEMENT)</u>	

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TIME	COMM CH	SEQ	SYS & AREA	DESCRIPTION	REMARKS
				<u>LAUNCH ONLY</u>	
T/5 (300 SEC)		1	A1	TC REQUEST MFCO FROM SRO (5 SECONDS)	
T/7 MIN	1	1	B1	<u>*CLEARANCE FROM PSO FOR LIMITED ACCESS TO PAD</u>	
		2	B1	INSPECTION TEAM #1 TO PAD	
		<u>3</u>	A1	<u>*ALL COMMUNICATIONS SWITCH TO SYSTEMS CHANNELS</u>	
T/8 MIN	10	1	K1	TEST POSITION SWITCH ON	
		2	K1	CHECK OPERATIONAL POWER SWITCH ON	CK LT
		3	K1	CHECK LR-3 PUMP INLET CLOSED	
		4	K1	VENT LO2 STORAGE TANK	
		<u>5</u>	B8	METRIC/DOCUMENTARY/AERIAL CAMERAS OFF/AUTO	
T/9 MIN	10	1	K1	LO2 MAN TO STORAGE TANK	
		2	K7	LO2 STORAGE OUTLET VALVE CLOSED (FMV 1-530)	
		3	K1	OPEN LR-3 PUMP INLET	
	2,10	4	K1, K7	<u>*SECURE LO2 SYSTEM</u>	
		5	K1, B8	SECURE PRESS. SYSTEMS, 2 MEN TO PCU AND COMPRESSOR AREAS	
T/15 MIN		1	B1	SECURE LANDLINE SYSTEM	
	8	<u>1</u>	MC 1	MERCURY TURN OFF PANEL POWER AT LOSS OF TLM SIGNAL FROM CAPSULE	
T/16 MIN	10	1	B1	PAD CLEAR FOR LIMITED CLEAN UP OPERATIONS	
		1	B1	PAD LIGHT TO AMBER	
T/17 MIN	3	2	C3	ENGINE AC GROUND POWER CIRCUIT BREAKER OPEN	
		<u>3</u>	T4	DE-ACTIVATE LAUNCHER BOOSTER UNIT	
T/20	10	1	U4	OPEN MISSILE GROUND BATTERY KNIFE SWITCH (TRANSFER ROOM)	
		2	P3	MISSILE POWER RECTIFIER OFF (TRANSFER ROOM)	
		3	L1	FUEL TEST POSITION SWITCH ON	

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TIME	COMM OR CR	REQ	SITE & AREA	DESCRIPTION	REMARKS
				<u>LAUNCH ONLY</u>	
6/20	10		1	FUEL OPERATIONAL POWER SWITCH ON	OK LTS
T/30	10	1	T6	DIESEL EMERGENCY 60 CYCLE GENERATOR STOP	
		2	T3	COMPLETE GENERAL AREA CLEAN UP	

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