

STEP	PROCEDURE
	<p>Note</p> <p>Perform this procedure prior to incorporation of TCTO 31X7-2-11-512 or if air conditioning equipment supplying cool air to the guidance system cabinets fail, is removed from the line, or temperature within cabinets exceed recommended limits.</p>
	<p>MISSILE GUIDANCE CONSOLE</p>
1	<p>Launch site targeting..... Checked T.O. 21-SM68-1FJ-1-2</p> <p>Check the launch site targeting log to determine that the appropriate launch site targeting procedures have been accomplished.</p>
2	<p>LAUNCH EXERCISE..... Green</p> <p>The LAUNCH EXERCISE pushbutton indicator must be green for a launch.</p>
3	<p>TRAINING..... Green</p>
4	<p>MAINT..... Green</p>
5	<p>STBY..... Green</p>
6	<p>ANT LOWER..... Green</p>
7	<p>HANDOVER OFF..... Green</p>
8	<p>POWER OFF..... Lighted</p>
9	<p>MONITOR ON-OFF switch..... ON</p>
10	<p>HV ON-OFF switch..... ON</p>
11	<p>ANTENNA FACILITY SELECT..... Green</p>
12	<p>ANTENNA FACILITY MAINT..... Green</p>
13	<p>ANTENNA FACILITY FAULT..... Not Lighted</p>
	<p>POWER SWITCHBOARD (Unit 16)</p>
14	<p>Generator (1 or 2) on line..... Recorded</p>

Figure 3-9. Guidance Electronics Officer Alert Status Monitoring (Standby) Procedure (Sheet 1 of 2)

STEP	PROCEDURE
15	ADJ PH STBY REG.....Not Lighted
16	LINE VOLTS PHASE C.....Checked If the indication is not in the center of the green segment, press ADJ PH C-INCREASE or DECREASE as required
17	Circuit breakers.....ON

Figure 3-9. Guidance Electronics Officer Alert Status Monitoring (Standby) Procedure (Sheet 1A of 2)

STEP	PROCEDURE
	MISSILE GUIDANCE CONSOLE
18	BLAST circuit breaker.....ON COMPUTER CONSOLE
19	STANDBY.....Green
20	POWER OFF.....Amber
	CONTROL INDICATOR POWER DISTRIBUTION GROUP
21	MOTOR GENERATOR OFF.....Amber
22	MOTOR GENERATOR SELECTED.....Green
23	AUTO EXC.....Green
24	PERIPHERAL A.C. POWER indicators.....Green The CONSOLE, AUX, PRINTER, TAPE READER, and OUTLETS indicators should all be green.
25	EMERGENCY RESET.....Green
26	DRUM OFF.....Amber
27	60 CYCLE VOLTS.....Checked Check phase 1-2, phase 1-3, and phase 2-3 by pressing the pushbutton indicators individually. The voltage meter should indicate 120(±6) volts for each phase.
	CONTROL-MONITOR POWER SUPPLY GROUP
28	DC POWER STANDBY SUPPLY.....Green
29	MANUAL SEQUENCE rotary switch.....OFF
30	SIMULATOR switch.....OFF

Figure 3-9. Guidance Electronics Officer Alert Status Monitoring (Standby)
Procedure (Sheet 2 of 2)

STEP	PROCEDURE
	<p>Note</p> <p>Perform this procedure after incorporation of TCTO 31X7-2-11-512.</p> <p>The guidance system will be maintained in a power-on configuration during alert monitoring. However, the guidance system will be returned to standby whenever any air conditioning equipment supplying cool air to the guidance system cabinets fail, is removed from the line, or temperature within cabinets exceed recommended limits.</p> <p>CAUTION</p> <p>Guidance system equipment cabinets must not exceed specified temperature limitations as damage to equipment may result.</p> <p>MISSILE GUIDANCE CONSOLE</p>
1	<p>Launch site targeting..... Checked</p> <p>T.O. 21-SM68-1FJ-1-2</p> <p>Check the launch site targeting log to determine that the appropriate launch site targeting procedures have been accomplished.</p>
2	<p>LAUNCH EXERCISE..... Green</p> <p>The LAUNCH EXERCISE pushbutton indicator must be green for a launch.</p>
3	<p>TRAINING..... Green</p>
4	<p>MAINT..... Green</p>
5	<p>STBY..... Green</p>
6	<p>POWER ON..... Green</p>
7	<p>MAG OFF..... Amber</p>
8	<p>ANT LOWER..... Green</p>
9	<p>HANDOVER OFF..... Green</p>
10	<p>POWER OFF..... Not Lighted</p>
11	<p>MONITOR ON-OFF switch..... ON</p>

Figure 3-9A. Guidance Electronics Officer Alert Status Monitoring (Power On) Procedure (Sheet 1 of 5)

STEP	PROCEDURE
12	HV ON-OFF switch..... ON
13	ANTENNA FACILITY SELECT..... Green
14	ANTENNA FACILITY MAINT..... Green
15	ANTENNA FACILITY FAULT..... Not Lighted
16	ANTENNA AZIMUTH LIMIT CW/CCW..... Green
	POWER SWITCHBOARD (Unit 16)
17	Generator (1 or 2) on line..... Recorded
18	ADJ PH C STBY REG..... Not Lighted
19	LINE VOLTS PHASE C..... Checked
	If the indication is not in the center of the green segment, press ADJ PH C - INCREASE or DECREASE as required.
20	Circuit breakers..... ON
	MISSILE GUIDANCE CONSOLE
21	BLAST circuit breaker..... ON
	COMPUTER-SIGNAL GENERATOR (Unit 24)
22	OVEN TEMP indicator..... Checked
	Turn METER SELECTOR switch to TEMP (chassis 24A66) and actuate READ METER toggle switch. The temperature indicator should read +60(±5)°F. Temperature will be checked four times daily at six hour intervals.
23	POWER ON..... Green
	CONTROL INDICATOR POWER DISTRIBUTION GROUP
24	MOTOR GENERATOR ON..... Green
25	MOTOR GENERATOR SELECTED..... Green
26	AUTO EXC..... Green

Figure 3-9A. Guidance Electronics Officer Alert Status Monitoring (Power On) Procedure (Sheet 2 of 5)

STEP	PROCEDURE
27	PERIPHERAL A.C. POWER indicators..... Green The CONSOLE, AUX, PRINTER, TAPE READER, and OUTLETS indicators should all be green.
28	EMERGENCY RESET..... Green
29	DRUM ON..... Green
30	60 CYCLE VOLTS..... Checked Check phase 1-2, phase 1-3, and phase 2-3 by pressing the pushbutton indicators individually. The voltage meter should indicate 120(+6) volts for each phase.
	CONTROL-MONITOR POWER SUPPLY GROUP
31	DC POWER READY..... Green
32	MANUAL SEQUENCE rotary switch..... OFF
33	SIMULATOR switch..... OFF
	SIGNAL DATA RECORDER (Unit 22)
34	Events recorder POWER switch..... ON Check LOCAL-REMOTE switch in REMOTE, AUTO-MANUAL switch in MANUAL, RANGE setting at X.1, and CHART SPEEDS at 2. Place POWER ON-OFF toggle switch to ON. The POWER ON, LAMP ON, GRID LINES ON, and MOTOR ON lamps should be lighted green.
	MISSILE GUIDANCE CONSOLE
35	Press GUID X NOT RDY..... Not Lighted
36	Press START GUID X..... White The following indications appear after START GUID X pushbutton indicator is pressed and should be observed: <ol style="list-style-type: none"> a. The digital data printer will print out the contents of the constants register. b. A gated pulse will appear on RANGE indicator. c. TARGET GATED indicator will light green.

Figure 3-9A. Guidance Electronics Officer Alert Status Monitoring
(Power On) Procedure (Sheet 3 of 5)

STEP	PROCEDURE
	<p>d. The AGC METER will indicate in the normal segment.</p> <p>If a gated pulse is not obtained reset the guidance exerciser by pressing GUID X NOT RDY pushbutton indicator and then pressing START GUID X pushbutton indicator.</p> <p>During the guidance exerciser coast period, the following indications appear and should be observed:</p> <ul style="list-style-type: none"> a. COAST indicator will light amber. b. TARGET GATED indicator will go out. c. AGC METER will indicate out of normal segment.
37	MAG RDY..... White
38	Press MAG ON..... White, then Green
	<p>After MAG ON pushbutton indicator is pressed, MAG ON will turn from white to green in 10 to 12 seconds. The following indications appear after pressing MAG ON pushbutton indicator and should be observed:</p> <ul style="list-style-type: none"> a. MAG RDY will go out. b. MAG OFF will go out. c. The MAG-MOD CUR-VOLT meter should indicate 1.5 to 1.9 MA; press INC-DEC as required. <p>Under no circumstances will the magnetron current be adjusted below 1.5 MA during a guid X run.</p>
39	<p>Magnetron tuning..... Accomplished</p> <p>The magnetron switch is held to the COARSE position. The MAG TUNE meter is checked for the approximate segment of the X BAND. The magnetron switch is released to peak. Adjust the frequency control switch as required to peak the MAG TUNE meter.</p>

Figure 3-9A. Guidance Electronics Officer Alert Status Monitoring (Power On) Procedure (Sheet 4 of 5)

STEP	PROCEDURE
	<p>All steps preceded by an asterisk will be coordinated with the MLO upon initiation or completion.</p> <p><u>CONTROL CENTER</u></p> <p><u>WARNING</u></p> <p>The SYSTEM TEST MODE SELECTOR switch must not be placed in the FULL SYSTEM position until at least 45 seconds have elapsed after the amber indicator has flashed. Between 45 and 55 seconds after the amber light has flashed, the SYSTEM TEST MODE SELECTOR switch must be placed back to the ELECTRONIC position. Failure to observe this warning may result in operation of blast valves.</p>
1	<p>IIT KELLOGG BLAST DETECTOR..... Checked SAC CEM 21-SM68-2-25-()</p> <p>The BMAT checks the blast detection system by observing that all indicators light during one complete cycle of the system (10 minutes).</p> <p>LAUNCH COMPLEX FACILITIES CONSOLE</p> <p>Note</p> <p>Steps 2 through 8 indicate or are checked for the response listed when the complex is in an alert status. All other indicators on the LCFC should indicate not lighted.</p>
2	<p>Lamps..... Checked T.O. 21-SM68-2J-15-1</p> <p>Raise panel of launch complex facility console and activate lamp, flasher, and buzzer switches.</p>
3	<p>Flashers..... Checked</p>
4	<p>Buzzer..... Checked</p> <p>Press and hold buzzer verify switch, then press PUSH TO SILENCE pushbutton. Hold buzzer verify switch until buzzer stops.</p>
5	<p>GROUND GUIDANCE..... Green</p>
6	<p>MISSILE AND FACILITY (3)..... Green</p>

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 1 of 11)

STEP	PROCEDURE
7	POWER HOUSE GEN(S).....White GEN 1, 2, 3, and 4 indicate white only when on the line and supplying power.
8	HAZARD LIGHT (3).....Green
9	PORTAL ACCESS LOCK.....Green BMAT verifies LOCK pushbutton indicator is lighted green, indicating the portal revolving door is locked.
10	FENCE GATE.....Green BMAT verifies FENCE GATE pushbutton indicator is lighted green, indicating complex security fence gate is locked.
*11	Press MISSILE AND FACILITY (3).....Red LAUNCH CONTROL CONSOLE
12	MISSILE AND FACILITY (3).....Red CAUTION Prior to raising LCC front panel, press MISSILE AND FACILITY pushbutton indicators on LCFC and verify red indication on LCFC and LCC to prevent accidental initiation of propellant loading during performance of lamp check.
13	Lamps.....Checked Raise panel on launch control console and actuate lamp verify switch. Verify all indicators are lighted and release switch. Note Steps 14 thru 17 indicate the responses listed when the complex is in an alert status. All other indicators on the LCC should indicate not lighted.

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 2 of 11)

STEP	PROCEDURE
	CAUTION
	Insure EXERCISE 1, 2, and 3 safety seals are in place and secured to prevent system from being placed in launch mode.
*14	EXERCISE (3).....Green, Seals in Place
15	TARGET SELECTION (3).....Green Verify proper target for each launcher is lighted green.
16	GROUND GUIDANCE.....Green
17	Press MISSILE AND FACILITY.....Green When MISSILE AND FACILITY pushbutton indicator is pressed, the MISSILE AND FACILITY indicators on both the LCC and the LCFC must light green.
	AREA SURVEILLANCE AND PORTAL ENTRANCE TV MONITORS
18	Surveillance TV operational.....Checked Verify TV is operational by checking pan, zoom, and tilt.
19	Portal TV operational.....Checked
	CONTROL CENTER ALARM PANEL
20	Set ABOVE GROUND RADIATION selector.....1 SAC CEM 21-SM68-2-25-()
21	Set WIND VELOCITY PROBE SELECTOR.....5
22	WIND VELOCITY DETECTOR.....Checked Check WIND VELOCITY DETECTOR then return to HIGH.
23	NUCLEAR BLAST DETECT ALARM DE-ACTIVATING.....ON This switch must be ON to allow blast valves closure in event of a blast.
24	NUCLEAR BLAST INDICATOR NORMAL.....Green All other indicators not lighted.

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 3 of 11)

STEP	PROCEDURE
	CONTROL CENTER CIRCUITS
25	OPERATING MODE..... Launch T.O. 21-SM68-2J-15-1
26	Lamps..... Checked Check LAMP VERIFY and return switch to the OFF position.
27	LOX LEAKAGE OVERRIDE (3)..... Not Lighted
28	(After incorporation of TCTO 31X3-10-17-546) CSE control assembly..... Checked BMAT will position the launcher select, mode selector, events recorder, and analog recorder switches as directed at the special activities briefing.
29	TARGET CARD READER AND LOGIC ASSEMBLY (3) lamps..... Checked
30	TARGETS (9)..... Green Target C indicators may be red if guidance is equipped with handover capabilities.
31	TARGETS SELECTED..... Lighted BMAT verifies that TARGET SELECTION A, B, or C on target card reader corresponds with the TARGET SELECTION A, B, or C on the LCC.
32	TARGET SELECT TEST (3)..... Not Lighted
33	Color code..... Checked Verify proper chassis to pallet relationship by matching color coding.
34	RECT ON LINE (POWER SUPPLY CONTROL)..... White
35	LOAD, BUS, RECT, and BATTERY voltages..... Checked BMAT checks the bus, line, battery and rectifier voltages to insure that the proper voltages exist and that the battery is fully charged (load 29(+3) VDC, battery 30(+3) VDC, and rectifier 28(+3) VDC).

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 4 of 11)

STEP	PROCEDURE
36	Countdown clocks (3)..... Reset Place countdown clock reset switches 1, 2, and 3 in UP position momentarily and verify countdown times set on all three clocks.
37	DISABLE (time display board)..... Red
*38	LSCB..... ENABLE, Green; DISABLE, Red BMAT positions LSCB in UP position momentarily and verifies ENABLE indicator lights green. DISABLE indicator will remain red.
39	Hold time indicators (3)..... 000.00
40	Circuit breakers..... ON
41	Remote gox analyzer..... Checked Gox readings are observed to check the operating condition of remote analyzers in all propellant terminals and missile silos to ascertain areas are safe for entry. If any remote gox analyzer(s) is inoperative, the BMAT will have maintenance correct the malfunctioning unit(s). <u>EQUIPMENT TERMINAL.</u>
42	MLO..... Notified BMAT will notify the MLO that he has arrived at the equipment terminal and will call upon completion of procedures. POWER SWITCHGEAR (SUB 1001, MCC 1010, JEU-7/E, and PANEL 1020)
43	GROUNDING INDICATORS (SUB 1001) (3)..... Lighted SAC CEM 21-SM68-2-21-()
44	Circuit breakers..... ON All HAND-OFF-AUTO switches will be in the AUTO position except FUEL LINE DRAIN P-112 and FUEL PUMP P-111 which will be in the LOC position.

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 5 of 11)

STEP	PROCEDURE
	POWER SUPPLY ECU-16
45	MODE SELECTOR..... REMOTE T.O. 21-SM68-2J-10-() Positioning MODE SELECTOR on power supply ECU-16 to REMOTE permits unit to be started or stopped remotely.
46	PRIMARY POWER lamp..... Lighted
47	Lamps..... Checked Verify PRIMARY POWER lamp is lighted and lamps light when checked.
	28 VDC POWER SUPPLY A/E 24A-4
48	PRI POWER INDICATOR..... Lighted
49	LOCAL START-REMOTE START..... REMOTE START Positioning LOCAL START-REMOTE START switch on power supply A/E 24A-4 to REMOTE START permits unit to be started or stopped remotely.
	BATTERY POWER SUPPLY A/E 24A-5
50	Lamps..... Checked
51	Battery trickle chargers..... Green
52	INPUT POWER PHASE A, B, and C..... Lighted All other indicators not lighted.
	MOTOR GENERATOR A/E 24A-3
53	LOCAL-REMOTE START..... REMOTE START Positioning LOCAL-REMOTE START switch to REMOTE START permits unit to be remotely controlled by control monitor group OA-2438/GJQ-11.
54	LOAD C.B..... ON
55	LINE POWER..... White
56	Circuit Breakers..... ON SAC CEM 21-SM68-2-21-()

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 6 of 11)

STEP	PROCEDURE
57	<p>GROUND indicators..... Lighted</p> <p>If the system has a GROUND/NORMAL indicator, NORMAL should be lighted. This indicates the system does not contain a ground and the battery charger is capable of maintaining battery pack (BAT 1001) in a charged condition. These batteries supply power for emergency lighting, damage control, and hazard warning units in the launcher area.</p>
58	<p>VOLTAGE..... Green, 125(+5) VDC</p>
59	<p>AMMETER..... Normal</p>
	<p>ELECTRICAL SYSTEM</p>
*60	<p>All circuit breakers..... ON T.O. 21-SM68-2J-10-()</p> <p>During an exercise, all circuit breakers will be positioned as directed by the MLO.</p>
61	<p>OPERATING MODE..... LAUNCH</p>
62	<p>Lamps..... Checked</p> <p>Verify lamps and return switch to OFF.</p> <p style="text-align: center;">Note</p> <p>BMAT notifies MLO that checkout power is being applied. If other personnel are in the launcher area, MLO will announce that power is being applied and to stand clear of all missile and facility valves.</p>
*63	<p>Checkout power (assembly 8A2)..... Applied</p> <p>Press CHECKOUT POWER pushbutton indicator and verify indicator lights red, then white within 10 seconds.</p>
64	<p>(After incorporation of TCTO 31X3-10-12-543) Press HYDRAULIC REGULATOR STAGE 1 and STAGE 2 PRESS TO READ..... Green</p> <p>When pressed and held, above pushbutton indicators will light green to indicate that the N₂ precharge in the hydraulic regulators is within tolerance.</p>

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 7 of 11)

STEP	PROCEDURE
65	All other indicators (except CHECKOUT POWER and SYSTEM CHECK)..... Green CHECKOUT POWER pushbutton indicator will be lighted white and SYSTEM CHECK indicator will be not lighted.
66	DC VOLTS and AC VOLTS selectors..... OFF Selector switches in OFF position prevents meter damage upon application of operating power. GUIDED MISSILE TEST SET
67	OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-6-()
68	ØA, ØB and ØC circuit breakers..... Pressed
69	TEST SET POWER circuit breakers (2)..... Pressed Circuit breakers are checked to insure operating power will be available to the guidance equipment when launch countdown is started. ENGINE CONTROL SYSTEM
70	OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-3-()
71	Lamps..... Checked Verify lamps light, and return switch to OFF.
72	ECS GO..... Green
73	CHECKOUT SELECTOR..... OFF LAUNCH SEQUENCER
74	OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-15-1
75	Lamps..... Checked Verify lamps light, and return switch to OFF. If GO CKT MONITOR is lighted red, press once for a not lighted indication.

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 8 of 11)

STEP	PROCEDURE
	<p>FLIGHT CONTROL SYSTEM</p> <p style="text-align: center;">Note</p> <p style="text-align: center;">IN PROCESS indicator is lighted when CHECKOUT POWER is applied.</p>
76	<p>OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-11-()</p>
77	<p>Lamps..... Checked</p> <p>Verify lamps light, and return switch to OFF.</p>
78	<p>HEATER POWER..... White</p>
79	<p>GYRO HEATER GO..... Lighted</p>
80	<p>P, Y, and R..... Cycling</p>
	<p>RE-ENTRY VEHICLE SYSTEM</p>
81	<p>OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-5-()</p>
82	<p>Lamps..... Checked</p> <p>Verify lamps light, and return switch to OFF.</p>
83	<p>R/V GOE CONTROL..... MARK 4</p>
84	<p>MARK 4 R/V IDENT..... White</p>
85	<p>MARK 4 R/V GOE..... Green</p>
86	<p>MARK 4 READINESS MONITOR, W/H SAFETY, A&F SAFETY, AND FUZE SET..... Green</p>
87	<p>OPERATING MODE..... CHECKOUT</p>
	<p style="text-align: center;">CAUTION</p> <p style="text-align: center;">If any indicator in step 88 is red, do not set MODE SELECTOR to MALFUNCTION.</p>
88	<p>MARK 4 W/H PRESSURE and A&F CONT..... Green</p>

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 9 of 11)

STEP	PROCEDURE
89	<p>OPERATING MODE. LAUNCH</p> <p>Notify MLO that checkout power is being removed. If other personnel are in the launcher area, MLO will verify that checkout power is not required before performing step 90.</p>
*90	<p>Checkout power (Assembly 8A2) Removed</p> <p>Press CHECKOUT POWER pushbutton indicator on assembly 8A2 to green. BMAT notifies MLO that he has completed equipment terminal alert status monitoring.</p>

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 10 of 11)

(Page 3-43, Figure 3-10, Sheet 11 of 11 deleted.)

STEP	PROCEDURE
96	<p>Hydraulic pressures..... In Tolerance T.O. 21-SM68-2FJ-7-2</p> <p>BMAT checks the hydraulic accumulator pressures to insure that they are in tolerance (1850 to 2950 PSI).</p> <p style="text-align: center;">Note</p> <p style="text-align: center;">Repeat steps 95 and 96 for other antenna.</p>
97	<p>Supply tank pressure (CC 5030)..... Normal SAC CEM 21-SM68-2-20-()</p> <p>This compressor supplies controlled pneumatic pressure to A/C 2042 valves. Proper operation is necessary for guidance countdowns.</p>
98	<p>Control pressure (CC 5030)..... Normal</p> <p>This indicator displays output pressure of the regulator unit controlling pneumatics to A/C valves.</p>
99	<p>MLO..... Notified</p> <p>BMAT notifies control center that alert status monitoring procedures have been completed. GEO will replace keys and return guidance equipment to standby.</p>

Figure 3-10. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 11 of 11)

STEP	PROCEDURE
	<p>All tasks preceded by an asterisk will be coordinated with the MLO upon initiation or completion.</p> <p><u>CONTROL CENTER</u></p> <p>LAUNCH COMPLEX FACILITIES CONSOLE</p> <p style="text-align: center;">Note</p> <p>Steps 1 through 7 indicate or are checked for the response listed when the complex is in an alert status. All other indicators on the LCFC should indicate not lighted.</p>
1	<p>Lamps..... Checked T.O. 21-SM68-2J-15-1</p> <p>Raise panel of launch complex facility console and activate lamp, flasher, and buzzer switches.</p>
2	Flashers..... Checked
3	<p>Buzzer..... Checked</p> <p>Press and hold buzzer verify switch, then press PUSH TO SILENCE pushbutton. Hold buzzer verify switch until buzzer stops.</p>
4	GROUND GUIDANCE..... Green
5	MISSILE AND FACILITY (3)..... Green
6	<p>POWER HOUSE GEN(S)..... White</p> <p>GEN 1, 2, and 3, indicate white only when on the line and supplying power.</p>
7	HAZARD LIGHT (3)..... Green
8	Press MISSILE AND FACILITY (3)..... Red
	LAUNCH CONTROL CONSOLE
9	MISSILE AND FACILITY (3)..... Red

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 1 of 10)

STEP	PROCEDURE
	<p style="text-align: center;">CAUTION</p> <p>Prior to raising LCC front panel, press MISSILE and FACILITY pushbutton indicators on LCFC and verify red indication on LCFC and LCC to prevent accidental initiation of propellant loading during performance of lamp check.</p>
<p>10</p>	<p>Lamps..... Checked</p> <p>Raise panel on launch control console and actuate LAMP VERIFY switch. Verify all indicators are lighted and release switch.</p> <p style="text-align: center;">Note</p> <p>Steps 11 thru 14 indicate the responses listed when the complex is in an alert status. All other indicators on the LCC should indicate not lighted.</p>
	<p style="text-align: center;">CAUTION</p> <p>Insure EXERCISE 1, 2, and 3 safety seals are in place and secured to prevent system from being placed in launch mode.</p>
<p>11</p>	<p>EXERCISE (3)..... Green, Seals in Place</p>
<p>12</p>	<p>TARGET SELECTION (3)..... Green</p> <p>Verify proper target for each launcher is lighted green.</p>
<p>13</p>	<p>GROUND GUIDANCE..... Green</p>
	<p style="text-align: center;">Note</p> <p>Press MISSILE AND FACILITY pushbutton indicators on LCFC and verify green indication on LCFC and LCC.</p>
<p>14</p>	<p>Press MISSILE AND FACILITY (LCFC)..... Green</p> <p>When MISSILE AND FACILITY pushbutton indicator is pressed, the MISSILE AND FACILITY indicator on the LCFC and LCC must light green.</p>
<p>15</p>	<p>NUCLEAR BLAST DETECT ALARM DE-ACTIVATING..... ON SAC CEM 21-SM68-2-25-()</p>

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 2 of 10)

STEP	PROCEDURE
15 (CONT)	This switch must be ON to allow blast valves closure in event of a blast.
16	NUCLEAR BLAST INDICATOR NORMAL..... Green All other indicators not lighted. CONTROL CENTER CIRCUITS
17	OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-15-1
18	Lamps..... Checked Check LAMP VERIFY and return switch to the OFF position.
19	LOX LEAKAGE OVERRIDE (3)..... Not Lighted
20	CSE control assembly..... Checked BMAT will position the launcher select mode selector, events recorder, and analog recorder switches as directed at the special activities briefing.
21	TARGET CARD READER and LOGIC ASSEMBLY (3) lamps..... Checked
22	TARGETS (9)..... Green Target C indicators may be red if guidance is equipped with handover capabilities.
23	TARGETS SELECTED..... Lighted BMAT verifies that TARGET SELECTION A, B, or C on target card reader corresponds with the TARGET SELECTION A, B, or C on the LCC.
24	TARGET SELECT TEST (3)..... Not Lighted
25	Color code..... Checked Verify proper chassis to pallet relationship by matching color coding.
26	RECT ON LINE (POWER SUPPLY CONTROL)..... White

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 3 of 10)

STEP	PROCEDURE
27	LOAD, BUS, RECT, and BATTERY voltages.....CHECKED BMAT checks the bus, rectifier, and battery voltages to insure that the proper voltages exist and that the battery is in a fully charged condition. (load 29(±3)VDC, battery 30(±3)VDC, and rectifier 28(±3)VDC.)
28	Countdown clocks (3).....Reset T.O. 21-SM68-2J-15-1 Place countdown clock reset switches 1, 2, and 3 in UP position momentarily, and verify countdown times set for applicable launcher.
29	DISABLE (time display board).....Red
*30	LSCB.....ENABLE, Green; DISABLE, Red BMAT positions LSCB in UP position momentarily and verifies ENABLE indicator lights green. DISABLE indicator will remain red.
31	Hold time indicators (3).....000.00
32	Circuit breakers.....ON
33	Remote gox analyzer.....Checked Gox readings are observed to check the operating condition of remote analyzers in all propellant terminals and missile silos to ascertain areas are safe for entry. If remote gox analyzer is inoperative, the BMAT will have maintenance personnel insure all analyzers in the missile silos and propellant terminals are operating.
<u>EQUIPMENT TERMINAL</u>	
34	MLO.....Notified BMAT will notify control center that he has arrived at the equipment terminal.
SUBSTATION GENERATOR POWER (1404)	
35	GROUNDING IND LIGHTS (3).....Lighted SAC CEM 21-SM68-2-21-()

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 4 of 10)

STEP	PROCEDURE
	SUBSTATION COMMERCIAL POWER (1407)
36	GROUNDING IND LIGHTS (3).....Lighted MOTOR CONTROL CENTER (MCC 1505)
37	All circuit breakers (except FUEL UNLOADING MISSILE SILO).....ON MOTOR CONTROL CENTER (MCC 1506)
38	All circuit breakers.....ON POWER SWITCHBOARD JEU-7/E
39	All circuit breakers.....ON T.O. 21-SM68-2J-10-() POWER SUPPLY ECU-16
40	MODE SELECTOR.....REMOTE T.O. 21-SM68-2J-10-() Positioning MODE SELECTOR on power supply ECU-16 to REMOTE permits unit to be started or stopped remotely.
41	PRIMARY POWER lamp.....Lighted
42	Lamps.....Checked Verify PRIMARY POWER LAMP is lighted and lamps light when checked. 28 VOLT POWER SUPPLY A/E 24A-4
43	PRI POWER INDICATOR.....Lighted
44	LOCAL START-REMOTE START.....REMOTE START Positioning LOCAL START-REMOTE START switch on power supply A/E 24A-4 to REMOTE START permits unit to be started or stopped remotely. BATTERY POWER SUPPLY A/E 24A-5
45	Lamps.....Checked
46	Battery trickle chargers.....Green

Figure 3-11. Ballistic Missile Analyst Technician Alert Status
Monitoring Procedure (VAFB) (Sheet 5 of 10)

STEP	PROCEDURE
47	INPUT POWER PHASE A, B, and C..... Lighted All other indicators not lighted. MOTOR GENERATOR A/E 24A-3
48	LOCAL-REMOTE START..... REMOTE START Positioning LOCAL-REMOTE START switch to REMOTE START permits unit to be remotely controlled by control monitor group OA-2438/GJQ-11.
49	LOAD C.B..... ON
50	LINE POWER..... White BATTERY CHARGER RECTIFIER (REC 1604)
51	GROUNDING indicators..... Lighted SAC CEM 21-SM68-2-21-()
52	VOLTAGE..... Green, 125(+5)VDC
53	AMMETER..... Green, 0-2 amps
	ELECTRICAL SYSTEM
54	All circuit breakers..... ON During an exercise all circuit breakers will be positioned as directed by the MLO.
55	OPERATING MODE..... LAUNCH
56	Lamps..... Checked Verify lamps and return switch to OFF.
	Note BMAT notifies MLO that checkout power is being applied. If other personnel are in the launcher area, MLO will announce that power is being applied and to stand clear of all missile and facility valves.

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 6 of 10)

STEP	PROCEDURE
*57	Checkout power (assembly 8A2)..... Applied Press CHECKOUT POWER pushbutton indicator and verify indicator lights red, then lights white within 10 seconds.
58	(After incorporation of TCTO 31X3-10-12-543) Press HYDRAULIC REGULATOR STAGE 1 and STAGE 2 PRESS TO READ.. Green When pressed and held, above pushbutton indicators will indicate the N ₂ precharge in hydraulic regulators are within tolerance.
59	All other indicators (except CHECKOUT POWER and SYSTEM CHECK)..... Green CHECKOUT POWER pushbutton indicator will be white and SYSTEM CHECK indicator will be not lighted.
60	DC VOLTS and AC VOLTS selectors..... OFF Selector switches in off position prevents meter damage upon application of operating power.
GUIDED MISSILE TEST SET	
61	OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-6-()
62	ØA, ØB and ØC circuit breakers..... Pressed
63	TEST SET POWER circuit breakers (2)..... Pressed Circuit breakers are checked to insure operating power will be available to the guidance equipment when launch countdown is started.
ENGINE CONTROL SYSTEM.	
64	OPERATING MODE..... LAUNCH
65	Lamps..... Checked Verify lamps light, and return switch to OFF.
66	ECS GO..... Green

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 7 of 10)

STEP	PROCEDURE
67	CHECKOUT SELECTOR..... OFF
68	LAUNCH SEQUENCER OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-15-1
69	Lamps..... Checked Verify lamps light, and return switch to OFF. If GO CKT MONITOR is lighted red, press once for a not lighted indication. FLIGHT CONTROL SYSTEM <p style="text-align: center;">Note</p> IN PROCESS indicator is lighted when CHECKOUT POWER is applied.
70	OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-11-()
71	Lamps..... Checked Verify lamps light, and return switch to OFF.
72	HEATER POWER..... White
73	GYRO HEATER GO..... Lighted
74	P, Y, and R..... Cycling
75	RE-ENTRY VEHICLE SYSTEM
75	OPERATING MODE..... LAUNCH T.O. 21-SM68-2J-5-()
76	Lamps..... Checked Verify lamps light, and return switch to OFF.
77	R/V GOE CONTROL..... MARK 4
78	MARK 4 R/V IDENT..... White
79	MARK 4 R/V GOE..... Green

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 8 of 10)

STEP	PROCEDURE
80	MARK 4 READINESS MONITOR, W/H SAFETY, A&F SAFETY, AND FUZE SET. Green
81	OPERATING MODE. CHECKOUT CAUTION If any indicator in step 82 is red, do not set MODE SELECTOR to MALFUNCTION.
82	MARK 4 W/H PRESSURE and A&F CONT. Green
83	OPERATING MODE. LAUNCH Notify MLO that checkout power is being removed. If other personnel are in the launcher area, MLO will verify that checkout power is not required before performing step 84.
*84	Checkout power (assembly 8A2) Removed Press CHECKOUT POWER pushbutton indicator on assembly 8A2 to green. BMAT notifies MLO that he has completed equipment terminal alert status monitoring.

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 9 of 10)

(Page 3-53, Figure 3-11 Sheet 10 of 10 deleted.)

STEP	PROCEDURE
88	Gangway..... Lowered T.O. 21-SM68-2FJ-7-2 To lower the gangway assembly the hand crank must be connected to the hand operated winch assembly. Gangway assembly pip pin is then removed, and drum lock disengaged.
89	BLOWER..... ON BMAT will check antenna BLOWER switch on the third level of the antenna silo.
90	Hydraulic pressures..... In Tolerance BMAT checks the Hydraulic Accumulator pressures to insure that they are in tolerance (1850 to 2950 PSI).
91	Gangway..... Raised To raise the gangway assembly, engage the drum lock, turn hand crank as necessary, insert gangway assembly pip pin, and then remove and store the crank.
92	RAILS STORED..... Not lighted RAILS STORED indicator is located in control panel 29A3A2. Note Repeat steps 88 thru 92 for other antenna.
93	Supply tank pressure (CC2601)..... Green, 70-80 PSI
94	Control pressure (PI 2601)..... Green, 15 PSI
95	MLO..... Notified BMAT notifies control center that alert status monitoring procedures have been completed.

Figure 3-11. Ballistic Missile Analyst Technician Alert Status Monitoring Procedure (VAFB) (Sheet 10 of 10)

STEP	PROCEDURE
	<p>All tasks preceded by an asterisk will be coordinated with the MLO.</p>
	<p><u>EQUIPMENT TERMINAL</u> <u>LAUNCHER SYSTEM</u></p>
1	<p>OPERATION SELECTOR. REMOTE T.O. 21M-HGM25A-2-8-()</p> <p>The OPERATION SELECTOR switch determines if the power pack is to be operated remotely by the logic circuitry or locally from the cycling control station. The LOCAL position is used for maintenance only.</p>
2	<p>Lamp test Performed</p> <p>A lamp test is performed by pressing the LAMP TEST pushbutton on the annunciator panel.</p>
3	<p>Air handler (AC2010) Operating SAC CEM 21-SM68-2-20-()</p> <p>Air handler (AC2010) operates only when the room temperature rises above +75 degrees fahrenheit.</p>
4	<p>Air compressor (CC 5002)</p> <p>External lubricator oil level Checked Crankcase oil level Checked</p> <p>Drain tank. Accomplished SAC CEM 21-SM68-2-26-()</p> <p>The plant air compressor (CC 5002) compresses, stores, filters, and dries air. This unit supplies compressed air to the pneumatic sewage ejector and utility air outlets in the missile silo, equipment terminal, and dry filtered air to control devices and valves in the propellant terminal.</p> <p>During a launch this system must be operating and supplying compressed air for control devices in the fuel transfer panel, propellant loading system, blast valve in the propellant terminal, and the damper motor in the missile air conditioning duct.</p>
5	<p>HYDRAULIC SYSTEM (C-216)</p> <p>Pump suction pressure 12(±1) PSI T.O. 21M-HGM25A-2-9-()</p>

Figure 3-12. Missile Maintenance Technician Alert Status Monitoring Procedure (Operational Bases) (Sheet 1 of 9)