Table 3-15. PLX Preparation and Coordination Procedures (CONT)

STEP	REQUIREMENTS	ACTION
**27	SECTOR COMMAND	Ready. Verify and coordinate with sector command that complex and personnel are ready for countdown.
**28	SAFETY MONITOR	Ready. Verify and coordinate with safety monitor that complex is ready for countdown.
**29	МЕРИ	Start generator set and ensure MEPU is retracted if a PLX or maintenance countdown is to be performed. For a training launch the MEPU shall be positioned at the fallback area.
**30	TAPE RECORDER	ON.
**31	MAINTENANCE CONTROL	Contact maintenance control and verify that no outstanding discrepancies exist on complex AGE, RPIE, or missile which will prohibit the completion of the PLX or create a hazardous condition, and that all mandatory conditions for conducting a PLX have been accomplished.
**32	COMMAND POST	Notify command post that complex is ready for countdown, establish a time hack, and standby for authority to initiate countdown.

Table 3-16. Amplified Countdown Procedures

STEP	CREW POS	REQUIREMENT
1		Normal indications shall be announced as indicated in this table. Abnormal or emergency indications shall be announced in all instances and recommendations made by responsible crew member. NOTE If guidance is on memory, target change cannot be accomplished. NOTE Emergency actions required for emergency or abnormal indications displayed on other than countdown, commit, and abort patches are contained in tables 4-2, 4-3, and 4-4.
		When necessary, position of the boiloff valve can be determined by panning level 3 TV camera vertically across the MEA. If B-2 pod transition fairing is above camera level, the boiloff valve is above the silo cap. NOTE The DMCCC shall announce countdown progression time at one-minute intervals. (One minute in countdown, etc.)

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
(CONT)		NOTE During countdown or abort, if a malfunction occurs which requires that the LO ₂ Tanking Panels be placed in LOCAL, the READY FOR COUNTDOWN, LO ₂ LINE FILLED, RAPID LO ₂ LOAD, FINE LO ₂ LOAD, LO ₂ COMMIT and LO ² DRAIN COMPLETE indicators on the LCC will be extinguished. The LO ₂ AND FUEL indicator will illuminate red. The above indications will return to normal when the LO ₂ Tanking Panels are returned to REMOTE.
		NOTE During a countdown, abort may be initiated by depressing ABORT pushbutton anytime prior to MISSILE LIFT UP & LOCKED indicator GREEN. After MISSILE LIFT UP & LOCKED indicator illuminates GREEN, it is not possible to initiate an abort sequence until one of the following has occurred:
		 a. ABORT indicator illuminated RED, which will occur if guidance does not go inertial in one second, or if engine cutoff signal is received and the missile is not away in five seconds plus the time it took for guidance to go inertial. b. Missile is away and engine cutoff signal is received. In this case, ABORT
		indicator will remain extinguished. c. A partial abort is automatically initiated 15 seconds after MISSILE LIFT UP & LOCKED indicator illuminates GREEN. At this time, missile power will change to external, autopilot programmer will return to safe, and commit lockup summary will drop out.
13		Do not make radio transmissions after countdown start.
		If a malfunction requires the LO ₂ Tanking Panel to be placed in LOCAL, ensure that N-5 and N-4 valve switches are in the OPEN and all other valve switches are in the CLOSED position.
		Prior to start of countdown, personnel shall be alerted and the silo shall be evacuated.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
1 (CONT)	MCCC	When 1000-cycle tone sounds, all crew members shall report to launch control center immediately. a. Take position on left side of launch control console. b. Accomplish controller fast reaction checklist.
		c. Ensure countdown and emergency checklists and stopwatches are available. d. Break seal on START C/D pushbutton.
	DMCCC	 a. Take position on right side of launch control console. b. Accomplish controller fast reaction checklist. c. Ensure countdown and emergency checklists and stopwatches are available. d. Position personnel warning light switch on FRCP to ON.
	ВМАТ	 a. Lamp test LO₂ TANKING (PANEL 1 and PANEL 2) and launch control console. b. Take position behind MCCC. c. Monitor pressurization until MCCC and DMCCC have completed controller fast reaction checklist.
	MFT	 a. Ensure all personnel are clear of silo and that blast doors and vent valve 600 are closed. b. Ensure RESET PROGRAMMER key is inserted in CSMOL and that key is in OSF position. c. Ensure TV monitor is on, INTENSITY switch is in LOW position and LIGHTING SYSTEM MAIN POWER switch is an. d. Take position in front of FRCP. e. Ensure FRCP indicators do not indicate a condition which will prevent countdown.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
	ЕРРТ	a. Take position in front of PRCP. b. Parallel diesel generators.
		NOTE A tactical countdown shall not be delayed until generators are paralleled and may be completed on one generator. NOTE DIESEL GENERATOR (D-60 or D-61) OVERSPEED, LOW LUBE OIL PRESS, HI TEMP indicator on FRCP will illuminate RED for less than eight seconds when alternate generator is started.
2	мссс	Verify all crew members and equipment are ready for countdown. Crew members shall respond in the following manner and sequence, to MCCC announcement, "CREW REPORT".
	DMCCC	"DEPUTY READY".
	ВМАТ	"A-1 READY".
	MFT	"M-1 READY".
	EPPT	NOTE EPPT shall respond in accordance with step a, b, or c, depending on condition of generators.
		a. "L-1 READY, GENERATOR PARALLELED".
9	ger.	b. "L-1 READY, GENERATOR BEING PARALLELED". c. "L-1 READY, COUNTDOWN ON ONE GENERATOR".
3	мссс	When ready for countdown: a. Announce, "COUNTDOWN START ON MY MARK-MARK" and depress START C/D pushbutton at MARK announcement.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
3 (CONT)	DMCCC	a. Start stopwatch.
		b. Log Zulu Time of countdown start.
28	ВМАТ	Monitor launch control console.
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
4		LN ₂ LOAD indicator AMBER. Indicator illuminates AMBER when liquid nitrogen valve 214 has opened and LN ₂ load is not complete. If indicator fails to illuminate AMBER at start of countdown, abort during a nontactical countdown. During a tactical countdown, see table 4-11.
	мссс	Announce, "LN2 LOAD AMBER".
	DMCCC	Monitor tank pressures (phase 1). LO ₂ tank pressure 3.4 - 4.2 PSI. Differential pressure greater than 5 PSI. FUEL tank pressure 11.9 - 13.0 PSI.
	ВМАТ	Observe the following launch control console indicators, announce any abnormal indications, and advise MCCC if abort is required. (Time at which abort is initiated shall be at MCCC discretion. Refer to section V for malfunction procedures.):
e .		a. MISSILE POWER indicator AMBER to GREEN. Indicator will illuminate AMBER when countdown bus is energized and will illuminate GREEN after AC and DC buses in missile are energized from ground power system.
		b. HEATERS ON indicator AMBER to GREEN. Indicator will illuminate AMBER when countdown bus is energized and illuminate GREEN when engine valve heaters are energized.
		c. MISSILE BATTERY ACTIVATED indicator AMBER. Indicator illuminates amber when battery activate signal is sent and a 2-minute timer is started to allow the battery sufficient time to generate a full load carrying capability.
		d. GUIDANCE RFADY indicator AMBER. Indicator will illuminate amber when guidance countdown is initiated. Test of airborne computer and calibration of accelerometers begin.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
4 (CONT)	BMAT (CONT)	e. R/V BATTERY TEMPERATURE indicator GREEN. Indicator will illuminate green when start countdown signal to prelaunch monitor is received. f. AUTOPILOT ON indicator AMBER. Indicator illuminates AMBER when 400-cycle power is applied to autopilot system for gyro spin motor operation. A 4-minute timer is started to prevent initiation of autopilot test until GYROS reach proper operating speed. g. HYDRAULIC PRESSURE indicator AMBER. Indicator illuminates AMBER after power is applied to autopilot system and booster and sustainer hydraulic pressures are not between 1750 and 2250 PSI.
	MFT	Observe the following FRCP indications: a. GASEOUS OXYGEN VENT OPEN indicator GREEN and GASEOUS OXYGEN VENT CLOSED indicator extinguished. If vent fails to open during a tactical countdown, countdown may continue. If vent closes during a nontactical countdown prior to commit start, abort is required. b. GASEOUS OXYGEN VENT FAN ON indicator illuminated. If indicator fails to illuminate during a nontactical countdown, abort is required. If during a tactical countdown, countdown may continue. c. RP1 AND FIRE FOG SYSTEM DAMPERS CLOSED indicator extinguished. If damper fails to open, countdown may continue. Position INTENSITY switch on TV monitor to HIGH.
	ЕРРТ	Monitor PRCP.
5	мссс	PNEUMATICS IN PHASE II indicator AMBER. Indicator will illuminate AMBER after a 5-second period for propellant level control unit (PLCU) warmup and fuel level check and if pneumatics not in phase II. If indicator fails to illuminate AMBER in approximately 5 seconds, abort is required. Refer to section V for malfunction procedures. Announce, "PNEUMATICS IN PHASE II AMBER". Acknowledge DMCCC announcement, "FUEL TANK PRESSURE RISING NORMALLY".

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
5 (CONT)	DMCCC	a. Acknowledge MCCC annuoncement, "PNEUMATICS IN PHASE II AMBER".
		b. Observe fuel tank pressure starts to rise at a steady even rate. With a normal rate of increase, fuel pressure tank should reach 53.0 PSI in approvimately 20 seconds. If an erratic rate of increase is observed during a non-tactical countdown, abort is required. During a tactical launch, countdown may be continued, however, close observation of pressures is necessary.
es.		CAUTAN
		When PRESSURE MODE indicator is illuminated GREEN and an unscheduled rapid change of pressures not within limits is observed, depress EMERGENCY pushbutton immediately. Manually correct missile tank pressures with appropriate RAISE or LOWER pushbutton, then return to automatic control by depressing AUTOMATIC pushbutton.
		c. Announce, "FUEL TANK PRESSURE RISING NORMALLY".
		d. Continue to observe missile tank pressures.
	ВМАТ	Monitor launch control console.
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
6		HYDRAULIC PRESSURE indicator GREEN. Indicator will illuminate GREEN when power is applied to the autopilot system and booster and sustainer hydraulic pressure are between 1750 and 2250 PSI. If indicator fails to illuminate GREEN and remain GREEN within 30 seconds after illuminating AMBER abort is required during a nontactical countdown. During a tactical countdown, see table 4-12.
	мссс	Observe HYDRAULIC PRESSURE indicator GREEN.
	DMCCC	Monitor fuel tank pressure increasing to phase II pressure.
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
7		CAUTION
		If PNEUMATICS IN PHASE II indicator is not GREEN prior to HELIUM LOAD indicator AMBER, depress ABORT pushbutton immediately.
		PNEUMATICS IN PHASE II indicator GREEN. Indicator will illuminate GREEN when fuel tank pressure is between 53.0 and 67.5 PSI.
		CAUTION
		If AIRBORNE FILL & DRAIN VALVE indicator fails to illuminate GREEN within 10 seconds after PNEUMATICS IN PHASE II indicator illuminates GREEN, depress ABORT pushbutton immediately. Failure to comply may result in damage to load lines or possible loss of missile.
	MCCC	a. Announce, "MARK-PNEUMATICS IN PHASE II GREEN".
		b. Start stopwatch and count seconds aloud until AIRBORNE FILL & DRAIN VALVE indicator is GREEN or until 10 seconds have elapsed. Continue timing for LO ₂ LINE FILLED indicator GREEN or RAPID LO ₂ LOAD indicator AMBER within 45 seconds.
e	DMCCC	Observe missile tank pressures stabilized at phase II pressures. (LO ₂ tank pressure 3.4 to 8.0 PSI, differential pressure greater than 5 PSI, fuel tank pressure 62.5 to 63.9 PSI).
	BMAT	a. Acknowledge MCCC announcement, "MARK - PNEUMATICS IN PHASE II GREEN" and take position at LO ₂ tanking panels.
		b. Observe AIRBORNE FILL & DRAIN VALVE indicator on LO ₂ TANKING (PANEL 2) illuminates GREEN.
		c. Announce, "AIRBORNE FILL & DRAIN VALVE GREEN".
		d. Observe STORAGE TANK VENT VALVE N-5 indicator on LO ₂ TANKING (PANEL 2) is illuminated AMBER.
ı	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
8		LO ₂ LINE FILLED indicator AMBER Indicator will illuminate AMBER after pneumatics ready for chilldown, LO ₂ storage tank vent valve N-5 closed, and line chilldown not complete (40-second timer not picked up). If indicator fails to illuminate AMBER and STORAGE TANK VENT VALVE N-5 indicator is illuminated AMBER, continue countdown and observe LO ₂ LINE FILLED indicator illuminates GREEN 40 seconds after PNEUMATICS IN PHASE II GREEN. If STORAGE TANK VENT VALVE N-5 indicator is not illuminated AMBER, abort a nontactical countdown or see table 4-13, item 1 if during a tactical countdown.
	MCCC	Observe LO ₂ LINE FILLED indicator, MBER.
		Acknowledge announcements:
		a. BMAT: "AIRBORNE FILL & DRAIN VALVE GREEN".
		b. DMCCC: "PRESSURES STABILIZED AT PHASE H".
		c. BMAT: "LO, TANKING PANELS NORMAL".
	DMCCC	Announce. "PRESSURES STABLIZED AT PHASE II", after BMAT has announced "AIRBORNE FILL & DRAIN VALVE GREEN".
		NOTE The following is a general summarization of the events occurring during the LO_2 loading sequence.
		The LO ₂ load sequence is started by the pneumatics ready for chilldown signal, LO ₂ LINE FILLED indicator illuminates AMBER, a 40-second timer starts, N-5 and N-4 valves close, and L-1, L-2, N-50, N-1, and airborne fill-and-drain valves open.
		Opening of valve N-1 pressurizes the LO, storage tank to approximately 25 PSI, forcing LO ₂ through the loading system into the missile and chilling down the loading lines. At the expiration of the 40-second timer, LO ₂ LINE FILLED indicator illuminates GREEN, RAPID LO, LOAD indicator illuminates AMBER, and valve N-2 opens.
		Opening of valve N-2 allows the transfer pressure to the LO ₂ storage tank to increase to approximately 135 PSI, which rapid loads the missile at approximately 5500 GPM. When the 95% sensor in the missile becomes wet, RAPID LO ₂ LOAD indicator illuminates GREEN, FINE LO ₂ LOAD indicator illuminates AMBER L-2 closes, and L-50 opens.
		When the 99% sensor in the missile becomes wet, FINE LO ₂ LOAD indicator illuminates GREEN, L-1, airborne fill-and-drain valve, N-1, N-2, and

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
8 (CONT)		N-3 (if open) close. Valves L-16 and N-60 open and a 90-second line drain timer starts. At the same time, topping continues through the booster engine turbopump by way of L-50 and L-60. When the 99.25% sensor in the missile becomes wet L-50 closes and 15 seconds later L-60 closes.
		When the 90-second timer runs out L-16 and N-60 close and the LO ₂ loading lines are vented through N-80, which opens at this time for 40 seconds. As the LO ₂ in the missile boils off, successive topping cycles through L-60 will continue. The LO ₂ READY indicator illuminates GREEN 50 seconds after FINE LO ₂ LOAD indicator is illuminated GREEN.
,	ВМАТ	Observe the following:
		a. TOPPING TANK VENT VALVE N-4 indicator AMBER. If indicator fails to illuminate AMBER, abort is required during a nontactical countdown, or see table 4-13, item 2 if during a tactical countdown.
		b. STORGAE TANK PRESS VALVE N-1 indicator GREEN. The indicator may return to AMBER after illuminating GREEN until RAPID LO ₂ LOAD indicator illuminates AMBER. If indicator fails to illuminate GREEN, at least momentarily, prior to RAPID LO ₂ LOAD indicator AMBER, during a nontactical countdown abort is required. Continue a tactical countdown, however, close observation of LO ₂ loading is required.
		c. RAPID LOAD VALVE L-2 indicator GREEN. If indicator fails to illuminate GREEN during a nontactical countdown, abort is required. Tactical countdown may be continued. Rapid LO ₂ loading may be accomplished through fine load valve L-1. Maximum allowable hold time will be reduced 2-½ minutes for each minute of rapid load in excess of 3-½ minutes, based on a minimum of 2650 gallons of LO ₂ in the topping tank.
		d. FINE LOAD VALVE L-1 indicator GREEN. Fine load valve L-1 must have been open to enable airborne fill-and-drain valve to open. If FINE LOAD VALVE L-1 indicator fails to illuminate GREEN, during a non-tactical countdown abort.
		e. TOPPING TANK PRESS. VALVE N-50 indicator GREEN. If indicator fails to illuminate GREEN, abort a nontactical countdown, or see table 4-13, item 3 if during a tactical countdown.
		f. TOPPING CHILL VALVE 1-60 indicator GREEN. If indicator fails to illuminate GREEN, abort is required during a nontactical countdown, or see table 4-13, item 4 if during a tactical countdown.
		Announce, "LO, TANKING PANELS NORMAL".
2	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
9	MCCC	LO. LINE FILLED indicator GREEN. Indicator illuminates GREEN upon expiration of 40-second line chilldown timer. If indicator fails to illuminate GREEN within 45 seconds (40 seconds normal) after PNEUMATICS IN PHASE II indicator GREEN, continue countdown only if RAPID LO. LOAD indicator illuminates AMBER. a. Observe LO. LINE FILLED indicator GREEN. b. Reset stopwatch.
3	DMCCC	Monitor missile fuel pressure for phase II.
	ВМАТ	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
-	EPPT	Monitor PRCP.
10	MCCC	RAPID LO ₂ LOAD indicator AMBER. Indicator will illuminate AMBER when 95% sensor is dry and LO ₂ load signal is present. If indicator fails to illuminate AMBER within 45 seconds (40 seconds normal) after PNEU-MATICS IN PHASE II indicator GREEN, abort is required. a. Announce, "MARK - RAPID LO ₂ LOAD AMBER". b. Start stopwatch to time LO ₂ rapid load sequence.
		c. Acknowledge BMAT announcement, "LO2 TANKING PANELS NOR-MAL".
Œ		If the RAPID LO. LOAD and FINE LO. LOAD indicators illuminate GREEN simultaneously, abort is required since a double LO. sensor failure has occurred.
	DMCCC	Monitor phase II pressures.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
12	MCCC	MISSILE BAT. ACTIVATED indicator GREEN. Indicator will illuminate GREEN after 2-minute battery sensing timer has picked up and battery output is within specifications. If indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures. Observe MISSILE BAT. ACTIVATED indicator GREEN.
	DMCCC	Monitor phase II pressures.
	ВМАТ	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
13	MCCC	ENG & MISSILE POWER READY indicator GREEN. Indicator will illuminate GREEN when the following conditions exist: a. Missile AC and DC loads ready. b. Engine valve heaters on. c. (Deleted) d. Missile battery activated and output voltage within tolerance. e. Engines are ready. If indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures. a. Announce, "ENGINE AND MISSILE POWER READY GREEN". b. Verify validity of launch order.
	DMCCC	Verify validity of launch order.
	BMAT	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	EPPT	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
12	MCCC	MISSILE BAT. ACTIVATED indicator GREEN. Indicator will illuminate GREEN after 2-minute battery sensing timer has picked up and battery output is within specifications. If indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures. Observe MISSILE BAT. ACTIVATED indicator GREEN.
	DMCCC	Monitor phase II pressures.
	ВМАТ	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
13	MCCC	ENG & MISSILE POWER READY indicator GREEN. Indicator will illuminate GREEN when the following conditions exist: a. Missile AC and DC loads ready. b. Engine valve heaters on. c. (Deleted) d. Missile battery activated and output voltage within tolerance. e. Engines are ready. If indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures. a. Announce, "ENGINE AND MISSILE POWER READY GREEN". b. Verify validity of launch order.
	DMCCC	Verify validity of launch order.
	BMAT	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	EPPT	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
14		LN ₂ LOAD indicator GREEN. Indicator will illuminate GREEN, provided rapid load valve 214 has opened, 3-minute LN ₂ load timer has timed out, and transfer pressure is greater than 75 PSI. If indicator fails to illuminate GREEN during a tactical countdown, see table 4-11. During a nontactical countdown abort is required. Refer to section V for malfunction procedures.
	MCCC	Announce, "LN ₂ LOAD GREEN".
195	DMCCC	Monitor phase II pressures.
	ВМАТ	Stand by to position REMOTE LOCAL switch on LO ₂ TANKING (PANEL 1) to LOCAL if required.
**	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
15		AUTOPILOT ON indicator GREEN. Indicator will illuminate GREEN provided that 400-cycle, 115 VAC, 3-phase power is available at the missile and the 4-minute autopilot test delay timer is timed out. If indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures.
	MCCC	Observe AUTOPILOT ON indicator GREEN.
8	DMCCC	Monitor phase II pressures.
18	вмат	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	EPPT	Monitor PRCP.
16		AUTOPILOT TEST indicator AMBER. Indicator will illuminate AMBER when the 4-minute autopilot test delay timer is timed out, hydraulic pressure is between 1750 and 2250 PSI, and the 90-second autopilot test timer has

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
16 (CONT)		not timed out. If the indicator fails to illuminate AMBER, abort is required. Refer to section V for malfunction procedures.
9	МССС	Observe AUTOPILOT TEST indicator AMBER.
	DMCCC	Monitor phase II pressures.
	ВМАТ	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP,
	EPPT	Monitor PRCP.
17		During a nontactical countdown, if L-2 valve indicator fails to illuminate AMBER within 8 seconds after RAPID LO ₂ LOAD indicator GREEN, immediately position REMOTE LOCAL switch on LO ₂ TANKING (PANEL 1) to LOCAL and initiate abort. After LO ₂ STG TNK PRESSURE indicator illuminates GREEN, position REMOTE LOCAL switch to REMOTE. LO ₂ tank pressure must be carefully monitored during LO ₂ drain because of the increase of drain flow if valve L-2 is open. If LO ₂ tank pressure decreases to 2.0 PSI, inmediately position REMOTE LOCAL switch to REMOTE LOCAL switch to REMOTE when LO ₂ tank pressure stabilizes. During a tactical countdown, if valve L-2 fails to close, allow countdown to continue. Do not initiate commit start until an automatic topping sequence is complete, as indicated by L-60 valve indicator cycling from AMBER to GREEN and back to AMBER. RAPID LO ₂ LOAD indicator GREEN. Indicator will illuminate GREEN when the 95% sensor is wet and LO ₂ load signal is still present. RAPID LO ₂ LOAD indicator should illuminate GREEN approximately 3 minutes after illuminating AMBER. In a nontactical countdown, abort will be initiated

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
18 (CONT)	мссс	a. Observe FINE LO ₂ LOAD indicator AMBER. b. Acknowledge BMAT announcement, "L-2 AMBER".
	DMCCC	Monitor phase II pressures.
	ВМАТ	Standby at LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP,
	ЕРРТ	Monitor PRCP.
19		
	мссс	If FINE LOAD VALVE L-1 indicator fails to illuminate AMBER within 5 seconds after FINE LO ₂ LOAD indicator illuminates GREEN, position REMOTE LOCAL switch on LO ₂ TANKING (PANEL 1) to LOCAL and start abort. Return REMOTE LOCAL switch on LO ₂ TANKING (PANEL 1) to REMOTE when LO ₂ STG TNK PRESSURE indicator illuminates GREEN and monitor abort sequence. Failure to comply may result in missile tank overfill and subsequent damage. FINE LO ₂ LOAD indicator GREEN. Indicator will illuminate GREEN when 95% and 99% sensors are wet and LO ₂ load signal is present. If indicator fails to illuminate GREEN approximately 30 seconds after RAPID LO ₂ LOAD indicator has illuminated GREEN, abort is required. a. Announce, MARK - FINE LO ₂ LOAD GREEN". b. Start stopwatch and count aloud up to 5 seconds or until FINE LOAD VALVE L-1 indicator AMBER. Continue timing until 120 seconds have elapsed. Announce 20 seconds, for timing RAPID TOPPING VALVE L-50 indicator to illuminate AMBER and 120 seconds for timing completion of LO ₂ line drain. c. Acknowledge BMAT announcement, "L-1 AMBER".
	DMCCC	Monitor phase II pressures.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
22 (CONT)	DMCCC	Monitor phase II pressures.
	BMAT'	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
23		HYD PNEU & LN ₂ - HE READY indicator will illuminate GREEN when all of the following conditions exists:
		a. Pneumatics in phase II.
		b. Helium control charging unit greater than 4500 PSI.
		c. Hydraulic pressure within limits.
		d. Helium load complete.
		e. LN ₂ load complete.
		If HYD PNEU & LN ₂ - HE READY indicator fails to illuminate GREEN during a tactical countdown, see table 4-15. During a nontactical countdown, abort is required. Refer to section V for malfunction procedures.
	MCCC	Announce, "HYD PNEU & LN2 - HE READY GREEN".
89	DMCCC	a. Monitor phase II pressures.
		b. After controllers fast reaction checklist is completed and after being relieved at launch control console by BMAT, depress ALCO COMM pushbutton and proceed to ALCO COMM/CONTROL panel.
	вмат	CAUTION
,		If LO ₂ STG TNK PRESSURE indicator is illuminated AMBER and DRAIN VALVE L-16 or LINE DRAIN PRESS VALVE
le le		N-60 has failed to illuminate AMBER, immediately position RE-
,	s	MOTE LOCAL switch on LO ₂ TANKING (PANEL 1) to LOCAL. After LO ₂ STG TNK PRESSURE indicator illuminates
		GREEN, return REMOTE LOCAL switch to REMOTE. Abort a nontactical countdown. Commit a tactical countdown.

Table 3-16. Amplified Countdown Procedures (CONT)

		
STEP	CREW POS	REQUIRFMENT
23 (CONT)	BMAT (CONT)	120 seconds after beginning of LO ₂ line drain (FINE LO ₂ LOAD indicator GREEN), observe the following:
		 a. DRAIN VALVE L-16 indicator AMBER. If indicator fails to illuminate AMBER, see caution above.
		b. LINE DRAIN PRES VALVE N-60 indicator AMBER. If indicator fails to illuminate AMBER. See caution above.
		STORAGE TANK VENT VALVE N-5 indicator GREEN or EXTIN-GUISHED within 30 seconds after DRAIN VALVE L-16 indicator AMBER. If indicator remains AMBER, abort a nontactical countdown.
		d. LINE VENT VALVE N-80 indicator GREEN. Indicator should remain GREEN for approximately 40 seconds. If indicator fails to illuminate GREEN during a nontactical countdown, abort is required.
		After observing LO ₂ TANKING (PANEL 1 and PANEL 2) for proper line drain indications BMAT shall relieve DMCCC at launch control console to monitor missile tank pressures and report countdown timing at 1-minute intervals.
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
24		GUIDANCE READY indicator GREEN. Indicator will illuminate GREEN when guidance countdown is complete. If indicator fails to illuminate GREEN within 13 minutes from start countdown the GUIDANCE FAIL indicator will illuminate RED, see table 4-2, item 10.
	мссс	Observe GUIDANCE READY indicator GREEN.
	DMCCC	When relieved by BMAT proceed to ALCO COMM/CONTROL panel, open panel, insert key, position COMM switch to TALK, monitor count-down, and stand by for MISSILE READY indicator to illuminate GREEN.
=	ВМАТ	Monitor phase II pressures.
	MFŤ	Monitor FRCP.
	ЕРРТ	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
19 (CONT)	ВМАТ	a. Acknowledge MCCC announcement. "MARK - FINE LO2 LOAD GREEN".
		b. Announce, "L-1 AMBER". See eaution above.
		c. Observe the following:
rs.		(1) AIRBORNE FILL & DRAIN VALVE indicator AMBER. If indicator fails to illuminate AMBER, the LO ₂ line drain sequence will not start. The LO ₂ READY indicator will fail to illuminate GREEN and abort will be required.
		(2) DRAIN VALVE L-16 indicator GREEN.
		(3) LINE DRAIN PRES VALVE N-60 indicator GREEN. During a tactical countdown, if indicators for valves L-16 and N-60 fail to illuminate GREEN and AIRBORNE FILL & DRAIN VALVE indicator is illuminated AMBER, LO ₂ line drain shall be accomplished by:
		(a) Positioning REMOTE LOCAL switch on LO ₂ TANKING (PANEL 1) to LOCAL.
		(b) Positioning 11 valve switch to OPEN after LO ₂ STG TNK PRESSURE indicator illuminates GREEN.
		(c) Waiting 2 minutes, then returing L-1 valve switch to CLOSE.
	#8 #1	(d) Positioning REMOTE LOCAL switch to REMOTE. Commit sequence can now be initiated.
*		If indicators for valves L-16 and N-60 fail to illuminate GREEN during a nontactical countdown, abort is required.
		(4) RAPID TOPPING VALVE 1-50 indicator AMBER. If indicator fails to illuminate AMBER within 20 seconds after FINE LO ₂ LOAD indicator illuminates GREEN, an immediate abort is required.
	MFT	Monitor FRCP.
	EPPT	Monitor PRCP.
20		LO ₂ READY indicator GREEN. Indicator will illuminate GREEN when 99.25% sensor has been wet, airborne fill-and-drain valve is closed, and the 50-second commit delay timer has timed out. If FINE LO ₂ LOAD indicator illuminates AMBER and remains AMBER after LO ₂ READY indicator

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
20 (CONT)		has illuminated GREEN, commit sequence must be started within 10 minutes or abort is required as a malfunction in the LO ₂ topping system is indicated. If LO ₂ READY indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures.
	МССС	Announce "LO2 READY GREEN".
	DMCCC	Monitor phase 11 pressures.
	ВМАТ	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
21		AUTOPILOT TEST indicator GREEN, Indicator will illuminate GREEN when the 90-second autopilot test timer times out and an autopilot fail signal is not present. If indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures.
	MCCC	Observe AUTOPILOT TEST indicator GREEN.
	DMCCC	Monitor phase II pressures.
	ВМАТ	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
22	3	HELIUM LOAD indicator GREEN. Indicator will illuminate GREEN when missile shrouded spheres reach a pressure greater than 2950 PSI. If indicator fails to illuminate GREEN within 8 minutes after being AMBER during a tactical countdown, see table 4-14. During a nontactical countdown, abort is required.
	мссс	Observe HELIUM LOAD indicator GREEN.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
25		FLIGHT CONTROL & R/V READY indicator GREEN. Indicator will illuminate GREEN when the following conditions exist:
		a. Autopilot ready.
		b. Guidance ready.
	8	c. R/V ready.
		d. Target selected.
		If FLIGHT CONTROL & R/V READY indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures.
	мссс	Announce, "FLIGHT CONTROL & R/V READY GREEN".
	DMCCC	Stand by at ALCO COMM/CONTROL panel for MISSILE READY indicator to illuminate GREEN.
	BMAT	Monitor phase II pressures.
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
26		READY FOR COMMIT indicator GREEN, Indicator will illuminate GREEN when the following conditions exist:
		a. Engine and missile power ready.
		b. Flight control and R/V ready.
1		c. HYD-PNEU and LN ₂ -HE ready.
		d. LO ₂ ready.
		e. Missile lifting system in standby.
	- 5	If READY FOR COMMIT indicator fails to illuminate GREEN, abort is required. Refer to section V for malfunction procedures.
	мссс	a. Announce, "READY FOR COMMIT GREEN."
		b. Acknowledge EPPT announcement of power condition.
		c. Acknowledge deputy announcement. "DEPUTY READY".

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
26 (CONT)	DMCCC	MISSILE READY indicator will illuminate GREEN when READY for COMMIT indicator on launch control console illuminates GREEN.
		a. Observe MISSILE READY indicator GREEN.
		b. Acknowledge, "DEPUTY READY" when MCCC announces "READY FOR COMMIT GREEN".
	BMAT	Monitor phase II pressures.
3.0	MFT	Monitor FRCP.
	EPPT	a. Acknowledge MCCC announcement, "READY FOR COMMIT GREEN."
		b. Announce power condition (single or parallel generator operation.)
27		NOTE
		If only one generator is operating, trip FEEDER NUMBER 3 NON-ESSENTIAL BUS CONTROL SWITCH when POWER INTERNAL indicator illuminates GREEN.
£		During commit sequence, UTILITY WATER PRESSURE and SILO WATER CHILLER UNITS MALFUNCTION indicators may illuminate RED. This is a normal condition if FEEDER NUMBER 3 NON-ESSENTIAL BUS CONTROL SWITCH GREEN indicator is illuminated.
	3	CAUTION
		If wind velocity or wind gust velocity exceeds maximum allowable anemometer reading measured at a distance of 10 feet above ground, do not start commit sequence except for tactical launch. (Refer to classified supplement to this manual.) Failure to comply may result in structural damage to missile.
		WARNING
		For training launches only, missile flight safety system instrumen- tation and range safety shall be ready for commit sequence to start.
		NOTE During missile commit sequence abort may be accomplished by depressing ABORT pushbutton anytime prior to MISSILE LIFT UP & LOCKED indicator illuminating GREEN or after ABORT indicator is illuminated red.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
27 (CONT)		If a nuclear blast is detected during countdown, do not start commit sequence until blast conditions (shock wave and effect) are over.
	мссс	a. Announce, "M-1, CLOSE LCC BLAST CLOSURES".
		b. Complete controller fast reaction checklist if launch order was received when in a hold configuration.
		c. Acknowledge MFT announcement, "BLAST CLOSURES CLOSED".
		d. Break COMMIT START key cover seal.
	DMCCC	Monitor ALCO COMM/CONTROL panel.
	вмат	Monitor phase II pressures.
	MFT	a. Acknowledge MCCC announcement, "M-1, CLOSE LCC BLAST CLOSURES".
		b. Depress LCC BLAST CLOSURES MANUAL OPERATION CLOSE pushbutton.
		c. Observe the following indications:
		(1) LCC AIR INTAKE CLOSED indicator RED.
		(2) LCC AIR EXHAUST CLOSED indicator RED.
		(3) LCC STAIRWELL AIR EXHAUST CLOSED indicator RED (NA OSTF-2).
8		NOTE If the above indications are abnormal, continue countdown.
8.		d. Announce, "BLAST CLOSURES CLOSED".
all a		e. Take position at CSMOL.
8	ЕРРТ	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	POS	REQUIREMENT
28	мссс	Announce, "COMMIT START ON MY MARK MARK" and rotate COMMIT START key.
	DMCCC	The ALCO COMM/CONTROL panel COMMIT SWITCH key must be rotated fully clockwise within 3 seconds after either LCO COMMIT indicator illuminates GREEN or MCCC "MARK" announcement.
		Rotate ALCO COMM/CONTROL panel COMMIT SWITCH key.
	ВМАТ	Monitor missile tank pressures. Reset and start stopwatch. Announce commit timing at 1-minute intervals.
	MFT	Monitor FRCP.
	EPPT	Monitor PRCP.
29		LAUNCH ENABLED indicator GREEN. Indicator will illuminate GREEN if launch has been enabled at the command post and alternate command post, and if the ALCO COMM/CONTROL panel COMMIT SWITCH key is rotated within 3 seconds after launch control console COMMIT START key is rotated.
	мссс	Observe LAUNCH ENABLED indicator GREEN.
8	DMCCC	Monitor ALCO COMM/CONTROL panel.
	ВМАТ	Monitor LO ₂ TANKING (PANEL 1 and PANEL 2).
9	MFT	Monitor FRCP.
	EPPT	Monitor PRCP.
30		POWER INTERNAL indicator AMBER, then GREEN. Indicator will illuminate AMBER after commit start and before changeover switch internal. This condition may remain for 60 seconds if the missile inverter has been running for 5 minutes before commit start. Indicator illuminates GREEN if internal AC power is within tolerance and the power changeover switch is internal. If POWER INTERNAL indicator remains AMBER and fails to illuminate GREEN, abort is required.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
30 (CONT)		NOTE If POWER INTERNAL indicator illuminates AMBER, then extinguishes, and LO ₂ COMMIT, PNEUMATICS INTERNAL, and GUIDANCE COMMIT indicators illuminate AMBER, continue countdown.
	MCCC	a. Announce, "MARK - POWER INTERNAL GREEN".
		b. Start stopwatch for LO ₂ COMMIT indicator to illuminate GREEN in approximately 60 seconds.
		c. Acknowledge EPPT announcement, "NONESSENTIAL POWER OFF".
	DMCCC	At MCCC announcement "MARK-POWER INTERNAL GREEN" or when COMMIT IN PROGRESS indicator illuminates GREEN return to launch control console and relieve BMAT after phase III pressures have stabilized.
	BMAT	a. Acknowledge MCCC announcement, "MARK - POWER INTERNAL GREEN".
		b. Observe RAPID TOPPING VALVE L-50 indicator GREEN. If indicator fails to illuminate GREEN during a training launch, abort is required because of possible low head pressure at the turbopumps which may result due to improper chilldown.
	MFT	Monitor FRCP.
	ЕРРТ	a. Acknowledge MCCC announcement, "MARK - POWER INTERNAL GREEN".
	e)	b. If only one generator is operating, position FEEDER NUMBER 3 NON-ESSENTIAL BUS CONTROL SWITCH to TRIP and observe FEEDER NUMBER 3 NON-ESSENTIAL BUS CONTROL SWITCH GREEN indicator illuminates.
		c. Announce, "NONESSENTIAL POWER OFF" (if accomplished).
н		PNEUMATICS INTERNAL indicator AMBER. Indicator will illuminate AMBER when missile power is internal and pneumatics has been selected for phase III pressures, and pneumatics is not internal. If indicator fails to illuminate AMBER and LO ₂ tank pressure is not rising, ABORT is required.
31	MCCC	a. Observe PNEUMATICS INTERNAL indicator AMBER.
		b. Acknowledge BMAT announcement, "LO ₂ PRESSURE RISING NOR-MALLY".

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
31 (CONT)	DMCCC	Stand by to relieve BMAT.
	ВМАТ	After observing RAPID TOPPING VALVE L-50 indicator illuminated GREEN:
		a. Observe LO ₄ tank pressure rising.
d		b. Announce, "LO ₂ PRESSURE RISHIG NORMALLY". LO ₂ tank pressure may increase to approximately 2° to 30 PSI during LO ₂ COMMIT indicator illuminated AMBER. This in scates that LO ₂ commit loading is in progress. Tank pressure will decreas a normal flight pressure after rapid topping sequence is complete.
	MFT	Monitor FRCP.
£	ЕРРТ	Monitor PRCP.
32		GUIDANCE COMMIT indicator AMBLR. Indicator will illuminate AMBER when guidance is on memory, as verified by the countdown group, and is not inertial. If GUIDANCE COMMIT indicator fails to illuminate AMBER and LO ₂ COMMIT indicator fails to illuminate GREEN, abort is required.
a: .	мссс	Observe GUIDANCE COMMIT indicator AMBER.
	DMCCC	Stand by to relieve BMAT.
*	ВМАТ	Announce, "LO ₂ PRESSURE 25 PSF".
	MFT	Monitor FRCP.
	ЕРРТ	Monitor PRCP.
33		LO ₂ COMMIT indicator AMBER. Indicator will illuminate AMBER if missile power is internal and the 60-second missile lift delay timer is not picked up.
	мссс	a. Observe LO ₂ COMMIT indicator AMBER.
		b. Acknowledge BMAT announcement "LO2 PRESSURE 25 PSI".

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMEN'F
33 (CONT)	DMCCC	Stand by to relieve BMAT.
	ВМАТ	Monitor phase III pressures.
	MFT	Monitor FRCP and TV.
	ЕРРТ	Monitor PRCP.
34		PNEUMATICS INTERNAL indicator GREEN. Indicator will illuminate GREEN if pneumatics are internal after phase III pressure are attained plus 5 seconds. If indicator fails to illuminate GREEN, abort is required.
	MCCC	a. Announce, "PNEUMATICS INTERNAL GREEN".
		b. Acknowledge BMAT announcement, "TANK PRESSURES STABILIZED AT PHASE III".
	DMCCC	Stand by to relieve BMAT.
	ВМАТ	a. Observe missile tank pressures stabilized at flight pressures (LO ₂ tank pressure 23.0 to 29.0 PSI, differential pressure greater than 5 PSI, and fuel tank pressure 59.5 to 65.6 PSI).
:		b. Acknowledge MCCC announcement "PNEUMATICS INTERNAL GREEN".
		c. Announce, "TANK PRESSURES STABILIZED AT PHASE III".
	MFT	Monitor FRCP and TV.
	EPPT	Monitor PRCP.
35		LO ₂ COMMIT indicator GREEN. Indicator will illuminate GREEN after expiration of the 60-second missile lift commit delay timer and commit internal. The LO ₂ commit signal also starts a 165-second missile lift not up and locked timer, and initiates a pulsating reset signal to the propellant utilization computer assembly which continues until abort is initiated or until missile lift off has been accomplished. If indicator fails to illuminate GREEN, abort is required.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMEN'F
33 (CONT)	DMCCC	Stand by to relieve BMAT.
	ВМАТ	Monitor phase III pressures.
	MFT	Monitor FRCP and TV.
	ЕРРТ	Monitor PRCP.
34		PNEUMATICS INTERNAL indicator GREEN. Indicator will illuminate GREEN if pneumatics are internal after phase III pressure are attained plus 5 seconds. If indicator fails to illuminate GREEN, abort is required.
	MCCC	a. Announce, "PNEUMATICS INTERNAL GREEN".
		b. Acknowledge BMAT announcement, "TANK PRESSURES STABILIZED AT PHASE III".
	DMCCC	Stand by to relieve BMAT.
	ВМАТ	a. Observe missile tank pressures stabilized at flight pressures (LO ₂ tank pressure 23.0 to 29.0 PSI, differential pressure greater than 5 PSI, and fuel tank pressure 59.5 to 65.6 PSI).
:		b. Acknowledge MCCC announcement "PNEUMATICS INTERNAL GREEN".
		c. Announce, "TANK PRESSURES STABILIZED AT PHASE III".
	MFT	Monitor FRCP and TV.
	EPPT	Monitor PRCP.
35		LO ₂ COMMIT indicator GREEN. Indicator will illuminate GREEN after expiration of the 60-second missile lift commit delay timer and commit internal. The LO ₂ commit signal also starts a 165-second missile lift not up and locked timer, and initiates a pulsating reset signal to the propellant utilization computer assembly which continues until abort is initiated or until missile lift off has been accomplished. If indicator fails to illuminate GREEN, abort is required.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
35 (CONT)	MCCC DMCCC BMAT	During launcher platform up-run, if an emergency occurs which requires launcher platform to be manually stopped and immediate down-run is not desired, position RESET PROGRAMMER key switch to ON and depress ABORT pushbutton. When down-run is desired, position RESET PROGRAMMER key switch to OFF. Observe LO ₂ COMMIT indicator GREEN. Relieve BMAT at launch control console and monitor flight pressures. Monitor commit sequence.
	MFT	Prepare to monitor missile lifting sequence.
	EPPT	Monitor PRCP.
36	MCCC	If more than 165 seconds have elapsed since LO ₂ COMMIT indicator illuminated GREEN and MISSILE LIFT UP & LOCKED indicator has not illuminated GREEN, ABORT indicator will illuminate AMBER. MISSILE UP & LOCKED indicator AMBER. Indicator will illuminate AMBER when launcher platform is not up and locked and site is soft. If indicator does not illuminate AMBER, monitor missile lifting system on TV. If silo overhead doors are opening or open and normal missile lift is apparent, wait for MISSILE LIFT UP & LOCKED indicator GREEN and continue countdown. a. Announce, "MISSILE LIFT UP & LOCKED AMBER". b. Acknowledge MFT announcement, "CSMOL NORMAL".
	DMCCC	Monitor flight pressures. NOTE After PNEUMATICS INTERNAL indicator has illuminated GREEN, the pressurization RAISE and LOWER pushbuttons are ineffective unless ABORT pushbutton is depressed and ABORT EXTERNAL indicator has illuminated AMBER.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
36 (CONT)	ВМАТ	Monitor commit sequence.
	MFT'	a. Acknowledge MCCC announcement. "MISSILE LIFT UP & LOCKED AMBER".
		b. Observe the following on CSMOL:
		(1) HYDRAULIC 40 HP PUMP PRESSURE indicator GREEN.
*		(2) CRIB VERTICAL LOCK indicator GREEN approximately 6 to 9 seconds after MISSILE LIFT UP & LOCKED indicator AMBER.
		(3) CRIB HORIZONTAL LOCK indicator GREEN approximately 9 to 15 seconds after MISSILE LIFT UP & LOCKED indicator AMBER
		(4) SILO DOORS OPEN indicator GREEN approximately 20 to 45 seconds after MISSILE LIFT UP & LOCKED indicator AMBER.
		(5) LAUNCHER PLATFORM CREEP DISABLED indicator extinguished simultaneously with SILO DOORS OPEN indicator GREEN.
	Alexander	c. Announce, "CSMOL NORMAL".
	ЕРРТ	Monitor PRCP.
37 *		PROGRAMMER ARMED indicator AMBER. Indicator will illuminate AMBER with programmer armed signal present 70 seconds after missile lift commit start.
		PROGRAMMER ARMED indicator GREEN. Indicator will illuminate GREEN when flight programmer is armed.
	мссс	Observe PROGRAMMER ARMED indicator AMBER to GREEN.
	DMCCC	Monitor flight pressures.
	вмат	Monitor commit sequence.
	MFT	Monitor TV and CSMOL.
	ЕРРТ	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
38		MISSILE LIFT UP & LOCKED indicator GREEN. Indicator will illuminate GREEN when missile lift is up and locked. The missile lift up and locked signal completes the commit lockup summary which starts the 15-second abort timer. If indicator does not illuminate GREEN, monitor missile lifting system on TV for missile lift motion and wait for ABORT indicator to illuminate AMBER or MISSILE LIFT FAIL indicator to illuminate RED.
		CAUTION
		If ABORT indicator illuminates AMBER, initiate abort sequence. If abort sequence is not initiated within 15 seconds after MISSILE LIFT UP & LOCKED indicator has illuminated GREEN, depress EMERGENCY pushbutton. Use nomogram (LO ₂ or LN ₂ as applicable) contained in section VI to determine boiloff time. Manual control of LO ₂ tank pressure shall be established at the HCU. Remove missile lifting system from automatic sequence control by positioning RESET PROGRAMMER key to ON.
	MCCC	Announce, "MISSILE LIFT UP & LOCKED GREEN".
	DMCCC	NOTE After MISSILE LIFT UP & LOCKED indicator has illuminated GREEN, the FMERGENCY pushbutton is enabled after 15 seconds or by depressing ABORT pushbutton after ABORT indicator illuminates RED.
8	ВМАТ	Monitor commit sequence.
	MFT	a. Acknowledge MCCC announcement, "MISSILE LIFT UP & LOCKED GREEN".
		b. Observe the following indications on CSMOL:
		(1) LAUNCHER PLATFORM UP COMPLETED RUN AND LOCKED indicator GREEN.
		(2) HYDRAULIC 40 HP PUMP ON indicator WHITE.
	EPPT	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
39		GUIDANCE COMMIT indicator GREEN. Indicator illuminates GREEN when guidance goes on inertial, which should occur within 1 second after MISSILE LIFT UP & LOCKED indicator illuminates GREEN.
	мссс	Observe GUIDANCE COMMIT indicator GREEN.
	DMCCC	Monitor flight pressures.
	вмат	Monitor commit sequence.
	MFT	Monitor TV and FRCP.
	ЕРРТ	Monitor PRCP.
40		ENGINE START indicator AMBER to GREEN. Indicator illuminates GREEN if the following conditions exist:
		a. Guidance on inertial.
		b. Engines not cut off.
,		e. Abort not started
		d. Commit lockup.
	мссс	Observe ENGINE START indicator GREEN.
	DMCCC	Monitor flight pressures.
	вмат	Monitor commit sequence.
	MET	Monitor TV and FRCP.
	ЕРРТ	Monitor PRCP.

Table 3-16. Amplified Countdown Procedures (CONT)

STEP	CREW POS	REQUIREMENT
41		MISSILE AWAY indicator GREEN. Indicator illuminates GREEN when missile rises 1 inch.
er	мссс	a. Announce, "MISSILE AWAY" or "ABORT RED".
		b. Acknowledge EPPT announcement, "NONESSENTIAL POWER ON",
		c. If nontactiael launch was performed (VAFB), refer to postlaunch securing procedures contained in T.O. 21M-HGM16F-3CL-1.
		d. If a tactical launch was performed, refer to postlaunch abort procedures (tactical) contained in table 3-18.
		e. If launch was not performed, refer to abort procedures contained in table 3-17.
		Launch or abort report should be made to command post as soon as practical.
	DMCCC	a. Stop stopwatch.
		b. Log Zulu Time of missile away.
	ВМАТ	Stand by
	MFT	Stand by
	ЕРРТ	a. Acknowledge MCCC announcement, "MISSILE AWAY" or "ABORT RED".
		b. Verify nonessential power on by observing FEEDER NUMBER 3 NON-ESSENTIAL BUS CONTROL SWITCH RED indicator is illuminated. If red indicator is not illuminated, position FEEDER NUMBER 3 NON-ESSENTIAL BUS CONTROL SWITCH to CLOSE and observe red indicator illuminates.
		c. Announce, "NONESSENTIAL POWER ON".