

3-90. MISSILE LAUNCH

NOTE

- If MPCU OUT SERV warning light illuminates, position MPCU BYPASS switch to BYPASS.
- If in BYPASS, PLC and Selective Enable are not possible. Notify SCP of condition and requirements.
- If LF is operating in UHF mode, cable PLCs must be transmitted twice.
- The DMCCC should insure correct system follow SF printouts are received for each command initiated. Notify the MCCC immediately of discrepancies. Correct SF printouts are:

PLC-A 005                    ENABLE 017  
 PLC-B 021                    EXECUTE 051  
                                  CLIP 014

MCCC	1. Launch Keys .....	INSERTED	_____
DMCCC			
	<u>ENABLING (if required) - steps 2 through 7.</u>		
MCCC	2. TRANSMISSION MODE rotary switch .....	CABLE or RADIO	_____
MCCC	3. SELECT switches .....	59 or REQUIRED LF	_____
MCCC	4. COMMAND MESSAGE SELECT OPERATIONAL rotary switch .....	ENABLE	_____
MCCC	5. COMMAND MESSAGE SELECT LECG switch .....	LECG	_____
MCCC	6. ENABLE PANEL switch .....	ENABLE	_____
MCCC	7. COMMAND MESSAGE SELECT OPR pushbutton .....	DEPRESSED, ILLUMINATED/OUT	_____
	<u>PLC-A (if required) - steps 8 through 11</u>		
MCCC	8. TRANSMISSION MODE rotary switch .....	CABLE or RADIO	_____
MCCC	9. PLC-A card .....	INSERTED	_____
MCCC	10. COMMAND MESSAGE SELECT OPERATIONAL rotary switch .....	PLC-A	_____
MCCC	11. COMMAND MESSAGE SELECT OPR pushbutton .....	DEPRESSED, ILLUMINATED/OUT	_____
	<u>PLC-B (if required) - steps 11A through 17</u>		
MCCC	11A. CEP/MRT switch .....	REQUIRED POSITION	_____
	Position switch in accordance with SAC directives.		
MCCC	12. TRANSMISSION MODE rotary switch .....	CABLE or RADIO	_____
MCCC	13. PLC-B card .....	INSERTED	_____
MCCC	14. SELECT switches .....	REQUIRED LF	_____
MCCC	15. COMMAND MESSAGE SELECT OPERATIONAL rotary switch .....	PLC-B	_____
MCCC	16. TIME INSERTION switches .....	REQUIRED TIME	_____

MISSILE LAUNCH (Cont)

NOTE

If PLC-A was required, insure PLC-A SF printout has been received prior to initiating PLC-B.

- MCCC 17. COMMAND MESSAGE SELECT OPR pushbutton ..... DEPRESSED, ILLUMINATED/OUT \_\_\_\_\_  
LAUNCH - steps 18 through 24.
- MCCC 18. TRANSMISSION MODE rotary switch ..... CABLE or RADIO \_\_\_\_\_
- MCCC 19. TIME INSERTION switches ..... 00 \_\_\_\_\_
- MCCC 20. Keyturn at commit time ..... ACCOMPLISHED \_\_\_\_\_  
DMCC
- MCCC 21. Launch switch ..... CODE USED \_\_\_\_\_  
DMCCC
- MCCC 22. TIMER ERROR warning lights (if illuminated) ..... RESET \_\_\_\_\_  
Reset warning lights by depressing MESSAGE LAMP RESET pushbutton on  
COMMAND MESSAGE AND EMP MONITOR panel.  
If TIMER ERROR warning lights do not reset, follow-on launch may not  
be possible. Report condition to SCP.
- DMCCC 23. Launch indications ..... NOTED \_\_\_\_\_  
Figure 3-1 depicts launch status indications.
- 24. Clear LFs (if required) ..... ACCOMPLISHED \_\_\_\_\_  
Required for launch capable LFs. Notify maintenance team to remove  
SCS lockpin assembly and clear LF.  
For additional launches reaccomplish steps 2 through 24 as required by SAC  
directives. If ELCs were transmitted in RADIO mode and PLC by cable is  
required, insure all ELC SF printouts have been received before PLC is  
initiated.  
CLIP COMMAND (if required) - steps 25 through 30.
- MCCC 25. CLIP CODE ..... INSERTED \_\_\_\_\_  
Insert appropriate CLIP code in thumbwheel switches as required by  
SAC directives.
- MCCC 26. TRANSMISSION MODE rotary switch ..... CABLE or RADIO \_\_\_\_\_
- MCCC 27. COMMAND MESSAGE SELECT OPERATIONAL rotary switch ..... CLIP \_\_\_\_\_
- MCCC 28. COMMAND MESSAGE SELECT LECG switch ..... LECG \_\_\_\_\_
- MCCC 29. COMMAND MESSAGE SELECT OPR pushbutton ..... DEPRESSED, ILLUMINATED/OUT \_\_\_\_\_
- DMCCC 30. Operational Status (OS) printouts ..... RECEIVED, CHECKED \_\_\_\_\_  
For HOLD 1 or HOLD 2, check for 341/342 as applicable.  
For CLIP CANCEL, check for absence of OS 316 and 319 printouts.

MISSILE LAUNCH (Cont)

MISSILE LAUNCH (Cont)

ALCC assistance for electrically isolated LF(s) and/or sole survivor conditions (if required) - steps 31 through 34.

When sole survivor conditions exist, reaccomplish steps 2 through 24, as applicable. Insure all possible ENABLE/PLC actions and key turn by radio have been accomplished then continue procedure.

- MCCC 31. MPCU BYPASS switch (if required) ..... BYPASS \_\_\_\_\_  
 Required for sole survivor conditions. Disregard abnormal status indications that may result when interrogations are interrupted.
- 32. ALCC contact (if possible) ..... ESTABLISHED \_\_\_\_\_  
 Attempt radio contact with ALCC over ALCC coordination frequency, or radio relay through another LCC and advise of requirements for PLC, ENABLE, and/or launch commands. Inform ALCC of all actions taken and time when LF(s) will accept ALCC commands. If unable to contact ALCC, monitor ERCS frequency and continue procedure.
- DMCCC 33. ALCC launch indications ..... NOTED/REPORTED \_\_\_\_\_  
 Note missile away indications to confirm missile launch and advise ALCC. Otherwise verify completion of ALCC actions by contact with ALCC.
- MCCC 34. MPCU BYPASS switch ..... OFF \_\_\_\_\_  
POST LAUNCH - steps 35 through 41.
- 35. LAUNCH REPORT ..... ACCOMPLISHED \_\_\_\_\_  
 PLCC's report to SCP. SCP report to ACP and WCP. When unable, report to ALCC over ALCC coordination frequency. Monitor ERCS frequency after contact.
- MCCC 36. COMMAND MESSAGE AND EMP MONITOR MESSAGE 1-5 indicators, ENABLE, CLIP AND EXECUTE caution lights (as applicable) ..... RESET \_\_\_\_\_
- MCCC 37. PLC card (if required) ..... CARD STORAGE \_\_\_\_\_
- MCCC 37A. CEP/MRT switch ..... CEP \_\_\_\_\_
- MCCC 38. TRANSMISSION MODE rotary switch ..... CABLE \_\_\_\_\_
- MCCC 39. COMMAND MESSAGE SELECT OPERATIONAL rotary switch ..... UNMARKED POSITION \_\_\_\_\_
- MCCC 40. COMMAND MESSAGE SELECT LECG switch ..... OFF \_\_\_\_\_
- MCCC 41. ENABLE PANEL switch ..... CODE USED \_\_\_\_\_










LF EVENTS	RESULTING STATUS CHANGES (ACTIVE LCC) 			
	ALARMS	DISPLAYS		AUTOMATIC PRINTOUTS
	(Command and Status Consoles)	(Primary Flight Group Status Panel)	(LF Status Call-Up Panel)	(Signal Data Recorder)
First execute launch command received.	Routine alarm	STATUS CHANGE indicator; flashing LCH CMD caution light illuminated		Operational status at local LCC
Second execute launch command received-command contains a different LCC address.	Routine alarm	STATUS CHANGE indicator; flashing LCH CMD caution light out; LCH IN PROC indicator illuminated		Operational status at local LCC
Missile IMU completes PLC-A or PLC-B alignment before effective delay timers have expired.	Routine alarm	STATUS CHANGE indicator flashing; STRAT ALERT indicator illuminated; STANDBY/HOLD caution light out.   After TCTO 21M-LGM30G-620: FAULT warning light illuminated for approximately 2 hours and 40 minutes. 	STANDBY ALIGN indicator out	Operational status at local LCC   After TCTO 21M-LGM30G-620: Maintenance status printout 525. 
Missile in terminal countdown	None	None	None	Operational status at local LCC
Missile lift-off	Routine alarm	STATUS CHANGE indicator flashing; MISSILE AWAY indicator illuminated  		Missile away printout: Asterisk (*), time, MV header, 401 through 450 (as applicable) and end of message dagger at local LCC.
 Only status indications which represent changes caused by the corresponding LF event are included.   Additional indications may appear if LF monitoring equipment is operative following missile lift-off.				

Figure 3-1. Launch Command Follow-On Indications

Figure 3-2 deleted