TECHNICAL ORDER CHANGE NOTICE

T.O. TITLE Weapon System Operational Checklist

T.O. NO.	T.O. DATE (BASIC) 1 May 62	EFFECTIVITY
21-SM80A-CL-1-1	LAST ISSUE DATE 15 Sep 62	All Bases
TOCN DATE 30 Dec 1962	TOCN NO. 6	SHEET 1 OF 1
WRITER W. Doetzinger	DATE 12/20/62 APP'D J.E. Mawthey	DATE 12/20/62

This TOCN changes the following pages:

Title
A thru C
1 thru 7
9 thru 17
20 thru 25
27 thru 28
31
33 thru 50

This TOCN incorporates the following CTOCU Master Log Numbers:

023
050
051

In addition, the yellow cover page of TOCN No. 5 should be removed.

NOTE: This TOCN supplies all pages in addition, that were not changed by this date.

T.O. 21-SM80A-CL-1-1

TECHNICAL MANUAL

OPERATION

WEAPON SYSTEM OPERATIONAL CHECKLIST

USAF SERIES SM80A

AF 04(647)-580

CHANGE NOTICE

LATEST CHANGED PAGES SUPERSEDE THE SAME PAGES OF PREVIOUS DATE

Insert changed pages into basic publication. Destroy superseded pages.

THIS PUBLICATION IS INCOMPLETE WITHOUT T.O. 21-SM80A-1 DATED 30 DECEMBER 1962

PUBLISHED UNDER AUTHORITY OF THE SECRETARY OF THE AIR FORCE

AIR FORCE, The Boeing Co., Seattle, Washington
12/30/62-900 (The Boeing Co.)

1 MAY 1962

CHANGED 30 DECEMBER 1962

INSERT LATEST CHANGED PAGES. DESTROY SUPERSEDED PAGES.

LIST OF EFFECTIVE PAGES

NOTE: The portion of the text affected by the changes is indicated by a vertical line in the outer margins of the page.

TOTAL NUMBER OF PAGES IN THIS PUBLICATION IS 58 CONSISTING OF THE FOLLOWING:

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* The asterisk indicates pages changed, added or deleted by the current change.

ADDITIONAL COPIES OF THIS PUBLICATION MAY BE OBTAINED AS FOLLOWS: D-3

USAF ACTIVITIES.—In accordance with Technical Order No. 00-5-2. **USAF**

LIST AND STATUS OF DATA TO BE VERIFIED

THE PARAGRAPHS AND FIGURES THAT REQUIRE VERIFICATION ARE LISTED BELOW.

REFERENCE PARAGRAPHS	PUBLICATION DATE: 30 Dec 62	
	VERIFICATION	RE-VERIFICATION
Paragraph 3-3		
Paragraph 3-5		
Paragraph 3-6		
Paragraph 3-8		
Paragraph 3-10	1 Sep 1962	
Paragraph 3-12	1 Sep 1962	
Paragraph 3-16	1 Sep 1962	
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Paragraph 3-18	1 Sep 1962	
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Paragraph 3-34	1 Sep 1962	
Paragraph 3-36	1 Sep 1962	
Paragraph 4-12A	1 Sep 1962	
Paragraph 4-13	1 Sep 1962	
Paragraph 4-17		
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TECHNICAL ORDER/EQUIPMENT CONFIGURATION STATUS RECORD

T.O. NO. 21-SM80A-CL-1-1 PAGE 1 OF 1
CONTRACTOR BOEING T.O. DATE (BASIC) 1 MAY 1962
CHANGE 30 December 1962

ECP/TCTO NO.	TOCN NUMBER	REMARKS
ECP 15		10 March 1962
ECP 16		10 March 1962
ECP 18		10 March 1962
ECP 21		10 March 1962
ECP 35		10 March 1962
ECP 43		10 March 1962
ECP 44		10 March 1962
ECP 94		1 May 1962
AAF ECP 30	6	1 December 1962
AAF ECP 45	6	1 December 1962

NOTE

ECP's reviewed for possible affect on T.O. 21-SM80A-CL-1-1 are reflected in the technical order/equipment configuration status record in T.O. 21-SM80A-1. Only the above ECP's, however, have been incorporated in T.O. 21-SM80A-CL-1-1.

INTRODUCTION

This manual contains official condensed checklists from the normal and emergency procedures in T.O. 21-SM80A-1, WEAPON SYSTEM OPERATION INSTRUCTIONS manual. The tasks are listed chronologically for the missile combat crew.

The checklists are arranged in 2-column, demand-response format. Demands are listed in the left-hand column, responses in the right-hand.

All paragraphs referenced are within T.O. 21-SM80A-1. Checklist steps correspond to the amplified line items within the referenced paragraphs. There are 26 major checklist functions listed herein, each major function beginning on a new page.

The following coding is used within the checklist:

1 - Malmstrom Air Force Base
2 - Ellsworth Air Force Base
3 - Minot Air Force Base
4 - Whiteman Air Force Base
5 - Warren Air Force Base
ACP - Alternate Command Post
SCP - Squadron Command Post
P - Primary LCC's
MCCC - Missile Combat Crew Commander
DMCCC - Deputy Missile Combat Crew Commander

All Data Deleted

NORMAL PROCEDURES

I LCC ENTRY PROCEDURE (MAINTENANCE) - MCCC & DMCCC (REF. PARA. 3-3)

MCCC 1. Entry notification from SCC ..... RECEIVED _____

MCCC 2. Command post approval for entry.. OBTAINED _____

DMCCC 2A. Door latch release switch ..... OPEN _____

MCCC 2B. Door closed notification from SCC ..... RECEIVED _____

WARNING

The LCC is vulnerable to blast overpressure when the blast door is opened. The blast door shall remain open no longer than necessary during entry or exit.

DMCCC 3. Open blast door:
- a. Selector valve control knob ..... OUT _____
- b. Pump handle (low pressure pump) ..... POSITIONED _____
- c. Low pressure pump..... ACTUATED _____
- d. Pump handle (high pressure pump) ..... POSITIONED _____
- e. High pressure pump ..... ACTUATED _____
- f. Blast door ..... PUSHED OPEN _____

DMCCC 4. Personnel and equipment ..... ADMITTED _____

MCCC 5. Notify SCC of crew arrival ... ACCOMPLISHED _____

DMCCC 6. Close blast door:
- a. Selector valve control knob ..... IN _____
- b. Pull door (within 1 inch of closing) ..... ACCOMPLISHED _____
- c. Door latch ..... CLOSED _____
- d. Pump handle (low pressure pump) ..... POSITIONED _____
- e. Low pressure pump ..... ACTUATED _____

f. Pump handle (high pressure pump) ..... POSITIONED _____
g. High pressure pump ..... ACTUATED _____
h. Pump handle ..... REMOVED _____
i. Door latch ..... RELEASED _____
j. Blast door ..... CHECKED LOCKED _____

NOTE

- If latch pins fail to engage, reposition door latch and notify maintenance control.
- Accomplish maintenance crew exit in reverse of entry procedure.

II CREW CHANGEOVER PROCEDURE - MCCC & DMCCC (REF. PARA. 3-5)

MCCC 1. Entry notification from SCC ..... RECEIVED _____

MCCC 2. Command post approval for entry . OBTAINED _____

DMCCC 2A. Door latch release switch ..... OPEN _____

MCCC 2B. Door closed notification from SCC ..... RECEIVED _____

WARNING

The LCC is vulnerable to blast overpressure when the blast door is opened. The blast door shall remain open no longer than necessary during entry or exit.

DMCCC 3. Open blast door:
a. Selector valve control knob ..... OUT _____
b. Pump handle (low pressure pump) ..... POSITIONED _____
c. Low pressure pump ..... ACTUATED _____
d. Pump handle (high pressure pump) ..... POSITIONED _____
e. High pressure pump ..... ACTUATED _____
f. Blast door ..... PUSHED OPEN _____

DMCCC 4. Relief crew ..... ADMITTED _____

MCCC 5. Notify SCC of crew arrival... ACCOMPLISHED _____

DMCCC 6. Close blast door:
a. Selector valve control knob ..... IN _____
b. Pull door (with 1 inch of closing) ..... ACCOMPLISHED _____
c. Door latch ..... CLOSED _____
d. Pump handle (low pressure pump) ..... POSITIONED _____
e. Low pressure pump ..... ACTUATED _____

f. Pump handle (high pressure pump) ..... POSITIONED _____
g. High pressure pump ..... ACTUATED _____
h. Pump handle ..... REMOVED _____
i. Door latch ..... RELEASED _____
j. Door ..... CHECKED LOCKED _____

MCCC 7. Relief crew ..... BRIEFED _____

NOTE

Items in the remainder of the checklist are performed by the relief crew.

MCCC 8. LCC log ..... CHECKED _____

MCCC 9. Missile status indicator-launcher.. CHECKED _____

MCCC 10. LAUNCH CONTROL panel cover ..... CLOSED, LOCKWIRED _____

MCCC 11. LAUNCH control switch ..... SET _____

MCCC 12. WAR PLAN select switch ..... BRIEFED POSITION _____

MCCC 13. INHIBIT LAUNCH switch ..... SET _____

14. (Deleted)

DMCCC 15. Cooperative launch switch ..... SECURED _____

DMCCC 16. LAUNCH ENABLE switches ..... SAFE, LOCKWIRED _____

DMCCC 17. VRSA interrogation and safe tone test ..... ACCOMPLISHED _____

MCCC 17A. Missile retargeting [2] ... ACCOMPLISHED _____

MCCC 18. Report discrepancies to maintenance control center ..... ACCOMPLISHED _____

19. Launch keys ..... RECEIVED _____

MCCC 20. LCC command ..... ACCEPTED _____

MCCC 21. Command post approval for exit; and time hack ..... OBTAINED _____

MCCC 22. Notify SCC of crew exit .... ACCOMPLISHED _____

DMCCC 23. Blast door. (Refer to step 3) ..... OPENED _____

NOTE

During operation of LCC blast door check for ease of movement. If door appears to stick or hang up in the opening and closing process, notify maintenance control.

DMCCC 24. Off-duty crew exit ..... ACCOMPLISHED _____

DMCCC 25. Blast door. (Refer to step 6) ..... CLOSED _____

DMCCC 25A. Door latch release switch ..... OPEN _____

MCCC 25B. Door closed notification from SCC ..... RECEIVED _____

MCCC 26. Arrival notification from SCC ... RECEIVED _____

MCCC 27. Proceed to LCC INSPECTION - MCCC ..... ACCOMPLISHED _____

DMCCC 28. Proceed to LCC INSPECTION - DMCCC ..... ACCOMPLISHED _____

III LCC INSPECTION - MCCC (REF. PARA. 3-6)

1. (Deleted)

2. (Deleted)

2A. Operators seat:
- a. Rails ..... CHECKED ____
- b. Condition of seat ..... CHECKED ____
- c. Relief tube ..... CHECKED ____
- d. Seat movement ..... CHECKED ____
- e. Shoulder straps, seat belts ..... CHECKED ____

3. Alarm-monitor panel lamp test ..... ACCOMPLISHED ____

4. Alarm system test:
- a. ALARM TEST button ..... NO. 1 POSITION ____
- b. Buzzer & illumination of ALARM #1 ON caution light ..... NOTED ____
- c. ALARM RESET button ..... DEPRESSED ____
- d. ALARM TEST button ..... NO. 2 POSITION ____
- e. Bell and illumination of ALARM #2 ON caution light ..... NOTED ____
- f. ALARM RESET button ..... DEPRESSED ____

4A. Missile status indicator-launcher lamp test:
- a. LAMP TEST button on the alarm-monitor panel ..... DEPRESS, HOLD ____
- b. Lamp test button: indicators (below LF #2) ..... DEPRESSED, ILLUMINATED ____
- c. Step b. for other nine LF's ..... REPEATED ____
- d. LAMP TEST button on the alarm-monitor panel ..... RELEASED ____
- e. Defective lamps: lamp test (if applicable) ..... REPLACED, REPEATED ____

5. Telephone-transmitter control:
- a. Phone or headset ..... PLUGGED IN ____
- b. SPEAKER control buttons ..... RELEASED ____
- c. Upper and lower OPR buttons ..... RELEASED ____
- d. LF LINES selector buttons ..... RELEASED ____

- e. DIAL LINES selector buttons ... RELEASED ____
- f. EWO control buttons ..... RELEASED ____
- g. Dial phone ..... CHECKED OPERATIVE ____
- h. LCC control button ..... RELEASED ____
- i. SCC and RADIO control buttons . RELEASED ____

6. LAUNCHER select switch ..... OFF ____

7. PROGRAM select switch ..... OFF ____

8. PAS monitor panel ..... VISUALLY CHECKED ____

9. HF radio ..... BRIEFED FREQUENCY ____

10. UHF CHANNEL SELECTOR switch ..... BRIEFED CHANNEL ____

11. HF POWER and UHF POWER switches ..... ON ____

12. HF POWER ON and UHF POWER ON indicators ..... ILLUMINATED ____

13. HF radio check:
- a. HF TEST button ..... DEPRESSED ____
- b. Flashing HF RADIO control button, buzzer, speaker noise ..... NOTED ____
- c. HF TEST button ..... RELEASED ____
- d. Reduction in speaker noise level .... NOTED ____
- e. HF control button ..... DEPRESSED
- f. Ring stops and HF RADIO control button light steady ..... NOTED ____
- g. HF TEST button ..... DEPRESSED ____
- h. Increase in speaker noise level ..... NOTED ____
- i. HF TEST button ..... RELEASED ____
- j. HF control button ..... RELEASED ____
- k. HF radio transmission and reception ..... CHECKED ____

14. UHF radio check:
    a. UHF TEST button ..... DEPRESSED _____
    b. Flashing UHF RADIO control button, buzzer, speaker noise ..... NOTED _____
    c. UHF TEST button ..... RELEASED _____
    d. Reduction in speaker noise level .... NOTED _____
    e. UHF control button ..... DEPRESSED _____
    f. Ring stops and UHF RADIO control button light steady ..... NOTED _____
    g. UHF TEST button ..... DEPRESSED _____
    h. Increase in speaker noise level ..... NOTED _____
    i. UHF TEST button ..... RELEASED _____
    j. UHF control button ..... RELEASED

15. (Deleted)

IV LCC INSPECTION - DMCCC (REF. PARA. 3-8)

CAUTION

Initial settings of LCC suspension system valves and regulators are made on installation. Manipulation of these valves or regulators can result in damage to the system and equipment on the shock mounted floor. No attempt should be made by the missile combat crew to correct an out of tolerance condition of the LCC floor.

1. Shock isolator:
    a. AIR CYLINDER PRESSURE gage ..... 600 PSI MINIMUM _____
    b. Floor level indicator... ZERO (± 1/4 INCH) _____
    c. Fittings and gages ..... CHECKED _____
    d. Report discrepancies to maintenance control .... ACCOMPLISHED _____

2. LCDB panel circuit breakers ..... ON _____

3. Oxygen regeneration unit:
    a. 12 hour timer..... POSITION 12 _____
    b. Bypass valve ..... CLOSED _____
    c. Hand crank ..... STOWED _____
    d. KO_2 canister ..... IN PLACE _____

4. Fire extinguisher ..... CHECKED _____

5. Emergency air conditioning unit:
    a. Chilled water temperature PNEUMATIC INDICATOR ..... GREEN _____
    b. Electric heating coil circuit breaker .. ON _____
    c. EMERGENCY PUMP OPERATING SWITCH START button ..... DEPRESSED _____
    d. (Deleted)
    e. CHILLED WATER PUMP OPERATING SWITCH START button ..... DEPRESSED _____
    f. EMERGENCY FAN OPERATING SWITCH ..... ON _____
    g. ELECTRIC HEATING COIL OPERATING SWITCH ..... ON _____

P
6. Oven-refrigerator:
   a. Operating temperatures ..... CHECKED _____
   b. Food supplies ..... CHECKED _____
   c. Food spoilage ..... CHECKED _____
   d. Oven ..... OFF _____

7. Emergency kit ..... CHECKED _____

ACP SCP
8. 465L racks:
   a. Cabinet damage ..... CHECKED _____
   b. Overheat ..... CHECKED _____
   c. Leakage at cooling duct connections ..... CHECKED _____

ACP
9. PAS terminal equipment rack
   a. Cabinet damage ..... CHECKED _____
   b. Overheat..... CHECKED _____
   c. Leakage at cooling duct connections ..... CHECKED _____

10. Radio set group:
   a. Cabinet damage ..... CHECKED _____
   b. Cover panels..... IN PLACED _____
   c. Overheat ..... CHECKED _____

11. Shock isolator (refer to step 1)... CHECKED _____

12. Distribution box AC POWER 60 CYCLE panel circuit breakers..... CLOSED _____

12A. Electric heating coil thermostat..... SET _____

13. Power supply group:
   a. Cabinet damage ..... CHECKED _____
   b. Overheat ..... CHECKED _____
   c. Leakage at cooling duct connections ..... CHECKED _____
   d. D-C POWER panel circuit breakers ..... CLOSED _____
   e. Survival lights ..... ILLUMINATED _____
   f. SURVIVAL LIGHT circuit breaker..... PULLED _____
   g. AC POWER 400 CY panel circuit breakers ..... CLOSED _____

14. Fire extinguisher..... CHECKED _____

15. Shock isolator (refer to step 1)... CHECKED _____

16. Digital data group:
   a. Cabinet damage ..... CHECKED _____
   b. Overheat ..... CHECKED _____
   c. Leakage at cooling duct connections ..... CHECKED _____
   d. POWER switch, POWER ON indicator..... ON, ILLUMINATED _____
   e. Missile away TEST button .. DEPRESSED _____
   f. MISSILE AWAY indicators. ILLUMINATED _____
   g. Missile away RESET button ..DEPRESSED _____

17. Command message processing group:
   a. Cabinet damage ..... CHECKED _____
   b. Overheat ..... CHECKED _____
   c. Leakage at cooling duct connections ..... CHECKED _____
   d. LAMP TEST button, indicators ..... DEPRESSED, ILLUMINATED _____
   e. LAMP TEST button, lamps, test (if applicable). RELEASED, REPLACED, REPEATED _____
   f. Power supply circuit breakers ..... ON _____

18. Status message processing group:
   a. Cabinet damage ..... CHECKED _____
   b. Overheat ..... CHECKED _____
   c. Leakage at cooling duct connections ..... CHECKED _____
   d. LAMP TEST button, indicators ..... DEPRESSED, ILLUMINATED _____
   e. LAMP TEST button, lamps, test (if applicable). RELEASED, REPLACED, REPEATED _____
   f. Power supply circuit breakers ..... ON _____

19. 465L racks:
   a. Cabinet damage ..... CHECKED _____
   b. Overheat ..... CHECKED _____
   c. Leakage at cooling duct connections ..... CHECKED _____

20. Telephone set repeater:
    a. Cabinet damage ..... CHECKED _____
    b. Overheat ..... CHECKED _____
    c. Leakage at cooling duct connections ..... CHECKED _____
    d. Indicator drawer..... CHECKED _____

21. Toilet and drinking fountain ..... CHECKED _____

22. Carbon canister START button, air ..... DEPRESSED, FLOWING _____

23. Shock isolator (refer to step 1)... CHECKED _____

ACP, SCP

24. Oven-refrigerator:
    a. Operating temperatures ..... CHECKED _____
    b. Food supplies ..... CHECKED _____
    c. Food spoilage ..... CHECKED _____
    d. Oven .... OFF _____

25. Blast valve operation:
    a. Intake and exhaust air velocities ..... RECORDED _____
    b. 24" EXHAUST hydraulic valve ..... CLOSE BLAST VALVE _____
    c. Hydraulic pump, hydraulic pressure gage..... ACTUATED, 150 PSI _____
    d. 24" EXHAUST hydraulic valve RELEASED _____
    e. 24" EXHAUST VELOCITY meter ..... ZERO READING _____
    f. 24" EXHAUST hydraulic valve ..... OPEN BLAST VALVE _____
    g. Hydraulic pump, hydraulic pressure gage ..... ACTUATED, 150 PSI _____
    h. 24" EXHAUST hydraulic valve RELEASED _____
    i. Difference between initial and final exhaust air velocities ..... RECORDED _____

NOTE

● If final air velocity is substantially lower than initial, position 24" EXHAUST hydraulic valve to OPEN BLAST VALVE and actuate hydraulic pump. If the discrepancy still exists report to maintenance control.

    j. Steps b. through i. using 24" INTAKE hydraulic valve and 24" INTAKE VELOCITY meter..... REPEATED _____

26. Blast door ..... CHECKED _____

27. Normal and emergency lighting .. CHECKED _____

28. Proceed to duty station.... ACCOMPLISHED _____

28A. Operators seat:
    a. Rails ..... CHECKED _____
    b. Conditions of seat ..... CHECKED _____
    c. Relief tube ..... CHECKED _____
    d. Seat movement ..... CHECKED _____
    e. Shoulder straps, seat belts.... CHECKED _____

29. Telephone-transmitter control:
    a. Phone or headset ..... PLUGGED IN _____
    b. SPEAKER control buttons.... RELEASED _____
    c. Upper and lower OPR buttons. RELEASED _____
    d. LF LINES selector buttons... RELEASED _____
    e. DIAL LINES selector buttons. RELEASED _____
    f. EWO control buttons ..... RELEASED _____
    g. Dial phone ..... CHECK OPERATIVE _____
    h. LCC control buttons..... RELEASED _____
    i. SCC and RADIO control buttons ..... RELEASED _____

30. Discrepancies reported to maintenance control ..... ACCOMPLISHED _____

V MISSILE TARGETING PROCEDURE 2▶ - MCCC
(REF. PARA. 3-10)

1. LAUNCHER select switch ..... DESIRED LF _____
2. PROGRAM select switch ...TGT 1 OR TGT 2 _____
3. PROGRAM select switch ..... DEPRESSED _____
4. Target commanded ..... LOGGED _____
5. Steps 1 through 4 for each applicable LF ..... REPEATED _____
6. If applicable, commanded target and VRSA message compared ..... ACCOMPLISHED _____

NOTE

If retargeting cannot be accomplished, notify maintenance control. If PROGRAM CONTROL panel malfunction is suspected, proceed with EMERGENCY LAUNCH (checklist function XIXA) in order to maintain launch capability.

VI VRSA INTERROGATION AND SAFE TONE TEST - DMCCC
(REF. PARA. 3-12)

1. LF SELECTOR switch ... APPLICABLE LF _____
2. FAULT QUERY button ..... DEPRESSED _____
3. VOLUME control ..... ADJUSTED _____
4. Target 2▶ malfunction, sign off messages .. .. RECEIVED _____
5. VRSA messages ..... LOGGED _____

NOTE

Upon command from maintenance control, the following VRSA monitor functions may be reset by SCN test command: loss of primary power, line failure monitor unit, net traffic fault, low fuel day tank, and low fuel storage tank.

6. SAFE TONE TEST button ..... DEPRESSED, HOLD _____
7. Sounding of tone, discrepancy, maintenance control and command post ..... NOTED, LOGGED, NOTIFIED _____
8. If applicable, repeat steps 1 through 7 for other LF's ..... ACCOMPLISHED _____

VII COMMUNICATIONS OPERATING PROCEDURES - MCCC OR DMCCC

RADIO RECEPTION - (REF. PARA. 3-16)

1. Buzzer and illumination of RADIO control button ..... NOTED ____
2. Applicable RADIO control button...DEPRESSED ____
3. Lower OPR button ..... DEPRESSED ____

NOTE

If it is desired to transfer the message to the speaker, depress the appropriate UHF, VHF, or HF SPEAKER control button on the telephone-transmitter control.

4. Upon completion of radio call, lower OPR and RADIO control buttons..... RELEASED ____

RADIO TRANSMISSION - (REF. PARA. 3-17)

1. Applicable RADIO control button...DEPRESSED ____
2. Lower OPR button ..... DEPRESSED ____
3. MICROPHONE switch . HOLD, RADIO POSITION ____
4. Message transmission ..... ACCOMPLISHED ____
5. Upon completion of radio transmission, MICROPHONE switch, RADIO control and lower OPR buttons ..... OFF, RELEASED ____

EWO RECEPTION - ACP & SCP's (REF. PARA. 3-18)

1. Buzzer and flashing EWO control button ..... NOTED ____
2. Flashing EWO control button ..... DEPRESSED ____

EWO RECEPTION - ACP & SCP's (REF. PARA. 3-18) (Cont)

3. Applicable OPR button ..... DEPRESSED ____
4. MICROPHONE switch ..... TEL POSITION ____
5. Upon completion of EWO call, MICROPHONE switch, EWO control and OPR buttons ..... OFF, RELEASED ____

EWO TRANSMISSION - ACP AND SCP's (REF. PARA. 3-19)

1. MICROPHONE switch ..... TEL POSITION ____
2. EWO 2 control button ..... DEPRESSED ____
3. Lower OPR button ..... DEPRESSED ____
4. EWO RNG button ..... DEPRESSED ____
5. Upon completion of EWO call, MICROPHONE switch, EWO 2 control and lower OPR buttons..... OFF, RELEASED ____

SIN (TELEPHONE) RECEPTION - (REF. PARA. 3-20)

1. Telephone ring and flashing LF or DIAL LINES selector button..... NOTED ____
2. Applicable LF or DIAL LINES selector button ..... DEPRESSED ____
3. Upper OPR button .....DEPRESSED ____
4. MICROPHONE switch ..... TEL POSITION ____
5. Upon completion of phone call, MICROPHONE switch, LF or DIAL LINES selector button and upper OPR button ..... OFF, RELEASED ____

SIN (TELEPHONE) TRANSMISSION - (REF. PARA. 3-21)

1. MICROPHONE switch ..... TEL POSITION ____
2. Upper OPR button ..... DEPRESSED ____
3. (For using dial phone) DIAL LINES 1 or 2 selector button ..... DEPRESSED ____
4. (For LF contact) applicable LF LINES selector button ..... DEEP DEPRESSED ____

NOTE

If desired, a phone message may be transferred to the speaker by depressing the TEL SPEAKER control button.

5. Upon completion of phone call, MICROPHONE switch, LF or DIAL LINES selector button and upper OPR button ..... OFF, RELEASED ____

INTERCOMMUNICATIONS RECEPTION - (REF. PARA. 3-22)

1. Ringing and flashing SCC control button .NOTED ____
2. SCC control button ..... DEPRESSED ____
3. Lower OPR button ..... DEPRESSED ____
4. MICROPHONE switch ..... TEL POSITION ____
5. Upon completion of call, MICROPHONE switch, SCC control and lower OPR buttons ..... OFF, RELEASED ____

INTERCOMMUNICATIONS TRANSMISSION - (REF. PARA. 3-23)

1. MICROPHONE switch ..... TEL POSITION ____
2. Lower OPR button ..... DEPRESSED ____

INTERCOMMUNICATIONS TRANSMISSION - (REF. PARA. 3-23) (Cont)

3. SCC control button ..... DEPRESSED ____
4. Upon completion of call, MICROPHONE switch, SCC control and lower OPR buttons ..... OFF, RELEASED ____

HVC RECEPTION - (REF. PARA. 3-24)

1. Flashing LCC control button and buzzer ..... NOTED ____
2. LCC control button ..... DEPRESSED ____
3. Lower OPR button ..... DEPRESSED ____
4. MICROPHONE switch ..... TEL POSITION ____
5. Upon completion of call, MICROPHONE switch, LCC control and lower OPR buttons ..... OFF, RELEASED ____

HVC TRANSMISSION - (REF. PARA. 3-25)

1. MICROPHONE switch ..... TEL POSITION ____
2. Lower OPR button ..... DEPRESSED ____
3. LCC control button ..... DEPRESSED ____
4. Applicable LCC RING button ..... DEPRESSED ____
5. Upon completion of call, MICROPHONE switch, LCC control and lower OPR buttons ..... OFF, RELEASED ____

VIII SCN TEST PROCEDURE - MCCC & DMCCC (REF. PARA. 3-26)

MCCC 1. Missile status indicator-launcher lamp test:
- a. LAMP TEST button (alarm-monitor panel) ..... DEPRESS, HOLD _____
- b. Lamp test button (below LF) ..... DEPRESS, HOLD _____
- c. Indicators ..... ILLUMINATED _____
- d. Lamp test buttons, lamps, test (if applicable) ..... RELEASED, REPLACED, REPEATED _____

DMCCC 2. Command message processing group indicator panel lamp test:
- a. LAMP TEST button, indicators ..... DEPRESSED, ILLUMINATED _____
- b. LAMP TEST button, lamps, test (if applicable) RELEASED, _____ ..... REPLACED, REPEATED _____

DMCCC 2A. Status message processing group control indicator lamp test:
- a. LAMP TEST button, indicators ..... DEPRESSED, ILLUMINATED _____
- b. LAMP TEST button, lamps, test (if applicable) RELEASED, _____ ..... REPLACED, REPEATED _____

DMCCC 3. Retransmitted to LF's ..... IDENTIFIED _____

DMCCC 4. Appropriate MCCC's..... NOTIFIED _____

MCCC 5. LAUNCHER select switch . APPLICABLE LF _____

MCCC 6. PROGRAM select switch ..... SCNT _____

MCCC 7. PROGRAM select switch ..... DEPRESSED _____

NOTE

If SCN test can not be commanded, notify maintenance control. If PROGRAM CONTROL panel failure is suspected, proceed with EMERGENCY LAUNCH (checklist function XIXA), in order to maintain launch capability.

MCCC 8. STANDBY and LAUNCH IN PROCESS indicators ..... ILLUMINATED _____

MCCC 9. INNER and OUTER SECURITY VIOLATED warning lights ..... ILLUMINATED _____

MCCC 10. STANDBY indicators (retransmitted to LF's) ..... ILLUMINATED _____

MCCC 11. SCN TEST RECEIVED indicator (if primary LF) ..... ILLUMINATED _____

MCCC 12. Buzzer and illumination of ALARM #1 ON caution light ..... NOTED _____

MCCC 13. ALARM RESET button ..... DEPRESSED _____

MCCC 14. Missile status indicator-launcher & alarm-monitor panel ..... MONITORED _____

DMCCC 15. Verification of standby indication from adjacent flight LCC's ..... RECEIVED _____

Upon test completion accomplish the following:

MCCC 16. STANDBY and LAUNCH IN PROCESS indicators ..... OUT _____

MCCC 17. SECURITY RESET button, applicable lamp test button ..... DEPRESSED _____

MCCC 18. SCN TEST RESET button (if applicable)..... DEPRESSED _____

MCCC 19. LAUNCHER select switch and PROGRAM select switch ..... OFF _____

DMCCC 20. Command-status message processing set ..... CHECKED _____

MCCC 21. SCN test results ..... RECORDED _____

MCCC 22. Malfunction indications (if applicable)..... REPORTED _____

IX TEST COMMAND - MCCC (REF. PARA. 3-28)

1. Applicable LF on primary power..... CHECKED _____

2. Missile status indicator-launcher lamp test:
   a. LAMP TEST button (alarm-monitor panel)..... DEPRESS, HOLD _____
   b. Lamp test button (below LF) ..... DEPRESS, HOLD _____
   c. Indicators ..... ILLUMINATED _____
   d. Lamp test buttons, lamps, test (if applicable) RELEASED, _____
   ..... REPLACED, REPEATED _____

3. LAUNCHER select switch . APPLICABLE LF _____

4. PROGRAM select switch ..... TEST _____

5. PROGRAM select switch .....DEPRESSED _____

NOTE

If test can not be commanded notify maintenance control. If PROGRAM CONTROL panel failure is suspected, proceed with EMERGENCY LAUNCH (checklist function XIXA), in order to maintain launch capability.

6. Selected launch facility STANDBY indicator ..... ILLUMINATED _____

7. STRATEGIC ALERT indicator ..... OUT _____

8. Missile status indicator-launcher..CHECKED _____

After one minute of test check the following:

9. STANDBY indicator..... OUT _____

NOTE

If the system goes into an automatic restart the STANDBY indicator will remain illuminated and the STRATEGIC ALERT indicator out after the one minute test interval. Log the LF restart and notify maintenance control and command post.

10. STRATEGIC ALERT indicator. ILLUMINATED _____

11. LAUNCHER select switch, PROGRAM select switch ..... OFF _____

12. Test results..... RECORDED _____

13. Malfunction indications (if applicable) ..... REPORTED _____

X CALIBRATION PROCEDURE - MCCC (REF. PARA. 3-30)

1. Applicable STRATEGIC ALERT indicator ..... ILLUMINATED _____

2. Missile status indicator-launcher lamp test:
   a. LAMP TEST button (alarm-monitor panel) ..... DEPRESS, HOLD _____
   b. Lamp test button (below LF) ..... DEPRESS, HOLD _____
   c. Indicators ..... ILLUMINATED _____
   d. Lamp test buttons, lamps, test (if applicable) RELEASED, REPLACED, REPEATED _____

3. Maintenance control & command post ..... NOTIFIED _____

4. LAUNCHER select switch. APPLICABLE LF _____

5. PROGRAM select switch ..... HOLD CAL POSITION _____

6. PROGRAM select switch ..... DEPRESSED, RELEASED _____

NOTE

If calibration can not be commanded, notify maintenance control. If PROGRAM CONTROL panel failure is suspected, proceed with EMERGENCY LAUNCH (checklist function XIXA), in order to maintain launch capability.

7. Applicable STANDBY indicator ..... ILLUMINATED _____

8. STRATEGIC ALERT indicator ..... OUT _____

9. Calibration start time ..... RECORDED _____

10. Missile status indicator-launcher ..... MONITORED _____

11. Report malfunctions (if applicable) ..... ACCOMPLISHED _____

After 2 hours, 40 minutes, check the following:

12. STANDBY indicator ..... OUT _____

13. STRATEGIC ALERT indicator ..... ILLUMINATED _____

NOTE

If the calibration sequence does not terminate at the end of a 2 hour and 40 minute period it may be assumed that the system has gone into an automatic restart. Log the restart and notify maintenance control and command post.

13A. LAUNCHER select switch, PROGRAM select switch ..... OFF _____

14. Report to maintenance control ..... ACCOMPLISHED _____

XI MISSILE PRELAUNCH - MCCC & DMCCC (REF. PARA. 3-32)

1. Launch command ..... RECEIVED ____

2. Strap into positions ..... ACCOMPLISHED ____

MCCC 3. Briefed target logged target compared (if applicable).... ACCOMPLISHED ____

4. Refer to EWO control action documents ..... ACCOMPLISHED ____

XII MISSILE LAUNCH - MCCC & DMCCC (REF. PARA. 3-34)

DMCCC 1. LAUNCH ENABLE switches ..... ARMED ____

MCCC 2. Buzzer and illumination of ARMED caution and ALARM #1 ON caution lights .... NOTED ____

MCCC 3. LAUNCH CONTROL panel ..... OPENED ____

DMCCC 4. Cooperative launch switch cover.. REMOVED ____

MCCC 5. WAR PLAN select switch ..... BRIEFED POSITION ____

MCCC 6. Launch key ..... INSERTED ____

DMCCC 7. Launch key ..... INSERTED ____

7A. Conference Call ACCOMPLISHED

8. Simultaneous rotation of launch keys ..... ACCOMPLISHED ____

NOTE

If launch cannot be commanded it may be due to PROGRAM CONTROL panel failure. Accomplish steps 1 through 3 of EMERGENCY LAUNCH (checklist function XIXA) prior to initiating another launch command.

MCCC 9. TRAFFIC ON NET caution light ..... ILLUMINATED ____

MCCC 10. LAUNCH COMMANDED caution lights and LAUNCH IN PROCESS indicators ..... ILLUMINATED ____

MCCC 11. Bell and illumination of ALARM #2 ON caution light ..... NOTED ____

MCCC 12. ALARM RESET button ..... DEPRESSED ____

Upon receipt of a second launch command or at the end of the preset time delay check the following:

MCCC 13. STRATEGIC ALERT indicator..... OUT _____

MCCC 14. INNER and OUTER SECURITY VIOLATED, MISSILE AWAY and FAULT indicators ..... ILLUMINATED _____

MCCC 15. Report to command post... ACCOMPLISHED _____

XIII FOLLOW ON LAUNCH PROCEDURE - MCCC (REF. PARA. 3-36)

1. LAUNCH COMMANDED indicator reset:
   a. LAUNCHER select switch ..... APPLICABLE LF _____
   b. PROGRAM select switch..... SCNT _____
   c. PROGRAM select switch..... DEPRESSED _____
   d. LAUNCH COMMANDED caution light ..... OUT _____
   e. ALARM RESET button..... DEPRESSED _____
   f. SECURITY RESET button, applicable lamp test button ..... DEPRESSED _____
   g. SCN TEST RESET button .... DEPRESSED _____
   h. Steps a. through g. for applicable LF's ..... REPEATED _____

2. Applicable launch facilities..... STRATEGIC ALERT _____

3. System status ..... REPORTED _____

4. Follow on launch order..... COORDINATED _____

NOTE

Accomplish missile launch in accordance with checklist function XII.

NORMAL PROCEDURES

XIV POST LAUNCH - MCCC & DMCCC (REF. PARA. 3-38)

1. Post launch instructions, command post ..... RECEIVED ____

2. If command post orders evacuation accomplish the following:

MCCC a. Radiation detector ..... CHECKED ____
DMCCC b. Notification of SCC ..... ACCOMPLISHED ____
c. Prepare to evacuate ..... ACCOMPLISHED ____
MCCC d. Notification of evacuation to command post ..... ACCOMPLISHED ____
e. Exit from LCC..... ACCOMPLISHED ____
f. Unit disaster control plan .....FOLLOWED ____

3. If instructions are to remain in LCC, follow unit disaster control plan ..... ACCOMPLISHED ____

EMERGENCY PROCEDURES

XV LF SECURITY VIOLATION - MCCC & DMCCC (REF. PARA. 4-3)

MCCC 1. Buzzer and illumination of ALARM #1 ON caution light ..... NOTED ____

MCCC 2. SECURITY VIOLATED (INNER or OUTER) warning light(s) ..... ILLUMINATED ____

MCCC 3. ALARM RESET button ..... DEPRESSED ____

DMCCC 4. VRSA interrogation ..... ACCOMPLISHED ____

NOTE

If VRSA message indicates a security system malfunction, contact maintenance control and make a comprehensive report, indicating LF involved, VRSA message, and all malfunction or abnormal system indications. Proceed with remainder of LF security violation procedure.

MCCC 5. Report violation to SCC..... ACCOMPLISHED ____

MCCC 6. Report to command post .... ACCOMPLISHED ____

7. (Deleted)

MCCC 8. LF status ..... MONITOR AND REPORT ____

MCCC 9. Notification that launch facility has been secured ..... RECEIVED ____

MCCC 10. SECURITY RESET button, applicable lamp test button ..... DEPRESSED ____

MCCC 11. Report to command post & maintenance control ..... ACCOMPLISHED ____

XVI WARHEAD ALARM - MCCC & DMCCC (REF. PARA. 4-5)

MCCC	1.	Buzzer and illumination of ALARM #1 ON caution light ..... NOTED	_____
MCCC	2.	WARHEAD ALARM and FAULT warning lights ..... ILLUMINATED	_____
MCCC	3.	ALARM RESET button ..... DEPRESSED	_____
DMCCC	4.	VRSA interrogation ..... ACCOMPLISHED	_____
MCCC	5.	Report alarm to maintenance control ..... ACCOMPLISHED	_____
DMCCC	6.	Report to command post .... ACCOMPLISHED	_____

XVII LAUNCH ENABLE SYSTEM MALFUNCTION - MCCC & DMCCC (REF. PARA. 4-7)

MCCC	1.	Buzzer and illumination of ALARM #1 ON caution light ..... NOTED	_____
MCCC	2.	ARMED caution light ..... ILLUMINATED	_____
DMCCC	3.	Check LAUNCH ENABLE switch (applicable LF) ..... SAFE	_____
MCCC	4.	ALARM RESET button ..... DEPRESSED	_____
DMCCC	5.	VRSA interrogation and safe tone test ..... ACCOMPLISHED	_____
MCCC	5A.	If applicable, initiate missile calibration ..... ACCOMPLISHED	_____
DMCCC	5B.	Contact SCC:	
		a. Launch enable system malfunction ..... REPORTED	_____
		b. Cable fault locator rack check ..... REQUESTED	_____
		c. Dispatch of security team... REQUESTED	_____
MCCC	6.	Report malfunction to maintenance control ..... ACCOMPLISHED	_____
DMCCC	7.	Report to command post.... ACCOMPLISHED	_____

XVIII LF FAULT (ALARM OR NO-GO) - MCCC & DMCCC
(REF. PARA. 4-9)

MCCC 1. Buzzer and illumination of ALARM #1 ON caution light ..... NOTED _____

MCCC 2. FAULT warning light ..... ILLUMINATED _____

MCCC 3. STRATEGIC ALERT indicator .... CHECKED _____

MCCC 4. Alarm reset button ..... DEPRESSED _____

MCCC 5. Missile status indicator-launcher lamp test:
- a. LAMP TEST button (alarm-monitor panel)..... DEPRESS, HOLD _____
- b. Lamp test button below LF ..... DEPRESS, HOLD _____
- c. Indicators ..... ILLUMINATED _____
- d. Lamp test buttons ..... RELEASED _____

DMCCC 6. Command message processing group indicator panel ..... CHECK STATUS _____

DMCCC 7. Indicator panel lamp test ... ACCOMPLISHED _____

DMCCC 8. Status message processing group control indicator ..... CHECK STATUS _____

DMCCC 9. Control indicator lamp test . ACCOMPLISHED _____

DMCCC 10. VRSA interrogation ..... ACCOMPLISHED _____

WARNING

If the VRSA report indicates a programmer launch acceptance alarm, the level of safety provided to prevent inadvertent launch is seriously degraded. Approximately half of the conditions required for launch have been satisfied and a single error or additional malfunction could initiate a countdown sequence. The following action should be accomplished immediately in the event of programmer launch acceptance alarm:

a. If applicable, accomplish missile calibration. Refer to checklist function X. Calibration of the missile will prevent inadvertent launch for a period of approximately two hours and forty minutes.
b. Contact the security control center and report programmer launch acceptance alarm and the launch facility involved. Request dispatch of a security team.
c. Contact maintenance control and command post, report programmer launch acceptance alarm. Standby for additional instructions.

MCCC 11. Request SCC check support building fault panels ..... ACCOMPLISHED _____

MCCC 12. Report to maintenance control ..... ACCOMPLISHED _____

DMCCC 13. Report to command post .... ACCOMPLISHED _____

MCCC 14. Log fault ..... ACCOMPLISHED _____

EMERGENCY PROCEDURES

XIX LAUNCH FACILITY MAINTENANCE MONITORING PROCEDURE - MCCC & DMCCC (REF. PARA. 4-11)

MCCC 1. Notification from maintenance control ..... RECEIVED ____

DMCCC 2. VHF RADIO contact with applicable maintenance support vehicle(s) ..... ESTABLISHED ____

DMCCC 3. Notification of anticipated outer security penetration ..... RECEIVED ____

MCCC 4. Buzzer and illumination of ALARM #1 ON caution light ..... NOTED ____

MCCC 5. Illumination of OUTER SECURITY VIOLATED warning light ..... NOTED ____

MCCC 6. ALARM RESET button ..... DEPRESSED ____

MCCC 7. If applicable, illumination of INNER SECURITY VIOLATED warning light .. NOTED ____

MCCC 8. If required, ALARM RESET button ..... DEPRESSED ____

DMCCC 9. Security penetration report to command post ..... ACCOMPLISHED ____

DMCCC 10. SIN (telephone) contact with maintenance team ..... ESTABLISHED ____

DMCCC 11. Progress of maintenance ..... MONITORED ____

DMCCC 12. Notification of completion of maintenance ..... RECEIVED ____

DMCCC 12A. LES CHECK/TEST ACCOMPLISHED ____

DMCCC 13. Notification that LF has been secured ..... RECEIVED ____

MCCC 14. SECURITY RESET button and applicable lamp test button ..... DEPRESSED ____

EMERGENCY PROCEDURES

DMCCC 14A LES CHECK/TEST ACCOMPLISHED ____

MCCC 15. If applicable, remote reset of VRSA ..... ACCOMPLISHED ____

DMCCC 16. Report to command post .... ACCOMPLISHED ____

XIXA. EMERGENCY LAUNCH - MCCC (REF. PARA. 4-12A)

1. Hexagon screws from face of PROGRAM CONTROL panel..... REMOVED ____
2. PROGRAM CONTROL panel ..... REMOVED ____
3. Panel rotated 180 degrees and re-installed ..... ACCOMPLISHED ____
4. Report to command post.... ACCOMPLISHED ____
5. Standby for launch command ..... ACCOMPLISHED ____

NOTE

Upon receipt of launch command accomplish missile prelaunch and launch in accordance with checklist functions XI and XII.

XX INHIBIT LAUNCH - MCCC (REF. PARA. 4-13)

1. Bell and illumination of ALARM #2 ON caution light ..... NOTED ____
2. ALARM RESET button ..... DEPRESSED ____
3. Illumination of LAUNCH COMMANDED caution lights ..... NOTED ____
4. Illumination of LAUNCH IN PROCESS indicators (for any armed missile).... NOTED ____
5. INHIBIT LAUNCH switch ...INHIBIT LAUNCH ____
6. LAUNCH COMMANDED caution light ... OUT ____
7. LAUNCH IN PROCESS indicators for armed missiles (after 205 seconds).....OUT ____
8. Report to command post.... ACCOMPLISHED ____

XXI ELECTRICAL FIRE OR OVERHEAT - MCCC & DMCCC (REF. PARA. 4-15)

NOTE

The MCCC will accomplish steps 1 and 2 while the DMCCC attempts to isolate fire.

MCCC 1. Notify command post ..... ACCOMPLISHED ____

MCCC 2. Notify SCC ..... ACCOMPLISHED ____

DMCCC 3. If fire or overheat is detected in equipment rack, proceed as follows:
a. Applicable circuit breaker(s) ..... PULLED ____
b. Cooling air damper ..... CLOSED ____

WARNING

When disconnecting d-c input cable from motor-generator, separate cable from M-G terminal quickly to avoid possible arcing and welding of cable to terminal. Secure free cable so that connector will not contact a metal surface, as the resulting short could cause a fire or electric shock.

DMCCC 4. If fire or overheat is detected in motor-generator, proceed as follows:
a. M-G floor panel ..... REMOVED ____
b. D-C input cable ..... DISCONNECTED ____
c. M-G LCDB circuit breakers ..... PULLED ____

DMCCC 5. If fire or overheat is detected in cabling, proceed as follows:
a. Trace cable to equipment . ACCOMPLISHED ____
b. Pull applicable breaker(s) ..... ACCOMPLISHED ____

DMCCC 6. If fire continues, use fire extinguisher ..... ACCOMPLISHED ____

NOTE

If deemed necessary, equipment rack drawers may be pulled out to further aid in fire fighting.

7. If fire becomes uncontrollable, accomplish the following:
MCCC a. Notify command post and SCC ..... ACCOMPLISHED ____
DMCCC b. Power supply group and distribution box circuit breakers ..... PULLED ____
c. Exit LCC ..... ACCOMPLISHED ____
d. Blast door ..... CLOSED ____
e. Proceed to SCC ..... ACCOMPLISHED ____

XXII MANUAL BLAST VALVE CLOSURE - MCCC OR DMCCC (REF. PARA. 4-17)

1. Instructions to accomplish blast valve closure ..... RECEIVED ____
2. 24" EXHAUST hydraulic valve .....CLOSE BLAST VALVE ____
3. Hydraulic pump, hydraulic pressure gauge..... ACTUATED, 150 PSI ____
4. 24" EXHAUST velocity meter ..... ZERO ____
5. If exhaust velocity not zero actuate hydraulic pump until valve closes..... ACCOMPLISHED ____
6. Steps 2 through 5, using 24" INTAKE hydraulic valve and 24" INTAKE VELOCITY meter..... ACCOMPLISHED ____

NOTE

If blast valve binds and will not close with normal pump operating pressure (150 psi), the operating pressure may be increased. Loosen locking nut on pump relief valve. Rotate set screw fully clockwise and repeat closing procedure.

XXIII EMERGENCY AIR CONDITIONING UNIT OPERATION - MCCC & DMCCC (REF. PARA. 4-19)

MCCC 1. Notification from SCC of environmental control system failure or primary power loss..... RECEIVED ____

DMCCC 2. Check emergency air conditioning unit control panel as follows: ____

a. Electric heating coil circuit breaker..... OFF ____
b. EMERGENCY PUMP OPERATING SWITCH START button ..... DEPRESSED ____
c. **Deleted**
d. CHILLED WATER PUMP OPERATING SWITCH STOP button ..... DEPRESSED ____
e. EMERGENCY FAN OPERATING SWITCH ..... ON ____
f. ELECTRIC HEATING COIL operating switch ..... OFF ____

DMCCC 3. If applicable blast valve closure..... ACCOMPLISHED ____

MCCC 4. Coordinate with SCC in reporting to maintenance control ..... ACCOMPLISHED ____

DMCCC 5. Report to command post.... ACCOMPLISHED ____

If the normal environmental control system is not restored at the end of the six hour emergency period, accomplish the following:

MCCC 6. Contact command post and request follow on instructions ..... ACCOMPLISHED ____

7. If command post orders evacuation of LCC accomplish the following:
   a. Prepare to leave LCC ... ACCOMPLISHED ____
MCCC b. Notify SCC of evacuation. ACCOMPLISHED ____
DMCCC c. Power supply and distribution box circuit breakers ..... PULLED ____
   d. Exit from LCC ..... ACCOMPLISHED ____

8. If instructions are to remain in LCC refer to LCC SURVIVAL - BATTERY POWER ..... ACCOMPLISHED ____

XXIV LCC SURVIVAL - BATTERY POWER

EQUIPMENT SHUTDOWN PROCEDURE - MCCC & DMCCC (REF. PARA. 4-23)

MCCC 1. SURVIVAL LIGHT circuit breaker ... CLOSED ____

MCCC 2. All breakers (power supply group) except HF RADIO ..... PULLED ____

CAUTION

In the event that primary power is restored, pull the SURVIVAL LIGHT circuit breaker to prevent lamp burnout.

MCCC 3. All breakers (distribution box) except EMERGENCY LIGHT and UHF RADIO ..... PULLED ____

DMCCC 4. Shutdown emergency air conditioning unit as follows:
   a. Emergency heating coil circuit breaker ..... OFF ____
   b. CHILLED WATER PUMP OPERATING SWITCH STOP button ..... DEPRESSED ____
   c. EMERGENCY PUMP OPERATING SWITCH STOP button ..... DEPRESSED ____
   d. EMERGENCY FAN OPERATING SWITCH ..... OFF ____
   e. ELECTRIC HEATING COIL operating switch ..... OFF ____

EQUIPMENT SHUTDOWN PROCEDURE - MCCC & DMCCC (REF. PARA. 4-23) (Cont)

WARNING

When disconnecting d-c input cable from motor-generator, separate cable from M-G terminal quickly to avoid possible arcing and welding of cable to terminal. Secure free cable so that connector will not contact a metal surface, as the resulting short could cause a fire or electric shock.

DMCCC 5. Shutdown M-G as follows:
a. M-G floor panel ..... REMOVED ____
b. D-C input cable ..... DISCONNECTED ____

OXYGEN REGENERATION PROCEDURE MCCC OR DMCCC (REF. PARA. 4-26)

1. Oxygen regeneration unit front panel ..... REMOVED ____
2. KO_2 canister ..... REMOVED ____
3. KO_2 canister caps ..... REMOVED ____

WARNING

The KO_2 canister must be placed in unit with arrow pointing up, or water accumulation will prevent the absorption of carbon dioxide and liberation of oxygen. In addition, harmful activated alumina dust may be injected into the LCC atmosphere.

4. KO_2 canister ..... REPLACED ____
5. Couple canister to connector ..... ACCOMPLISHED ____
6. Bypass valve ..... CLOSED (6-MAN) ____

OXYGEN REGENERATION PROCEDURE MCCC OR DMCCC (REF. PARA. 4-26) (Cont)

7. Blower discharge port dust cap. . . . REMOVED ____
8. 12 hour timer ..... SET ____
9. Stowed handcrank ..... REMOVED ____
10. Handcrank inserted in socket ..... ACCOMPLISHED ____
11. Rotate crank clockwise at 30 rpm ..... ACCOMPLISHED ____
12. Flow indicator ..... CHECKED ____
13. Crank five minutes on - 15 off, until timer runout ..... ACCOMPLISHED ____
14. Change crewmembers, reset timer ..... ACCOMPLISHED ____
15. Steps 13 and 14 ..... REPEATED ____

15A. Hand crank ..... REMOVED, STOWED ____

16. KO_2 canister (after 24 hours) ..... REMOVED ____

WARNING

Do not replace caps on used canister. Reaction occurring within canister will continue to liberate oxygen for several hours and may pressurize the canister.

17. Roll used canister under LCC platform ..... ACCOMPLISHED ____
18. Floor panel over canister storage compartment ..... REMOVED ____
19. Replacement canister ..... REMOVED ____

OXYGEN REGENERATION PROCEDURE MCCC OR DMCCC (REF. PARA. 4-26) (Cont)

NOTE

Handling of a 60 pound canister will require the effort of both combat crewmembers.

20. Using replacement canister, repeat procedure ..... ACCOMPLISHED ____

OXYGEN REGENERATION PROCEDURE (ELECTRICAL) - MCCC OR DMCCC (REF. PARA. 4-28) Deleted.

XXV ESCAPE PROCEDURE - MCCC & DMCCC (REF. PARA. 4-29)

MCCC 1. Command post approval for LCC evacuation ..... OBTAINED ____

MCCC 2. Radiation level ..... CHECKED ____

DMCCC 3. Trap door ..... OPENED ____

DMCCC 4. Enter opening ..... ACCOMPLISHED ____

WARNING

Combined weight of hatch cover and lower molding clamp is 544 pounds. Keep clear while loosening retainer bolts, or serious injury may result when cover and holding clamp drop.

DMCCC 5. Escape hatch ..... REMOVED ____

DMCCC 6. Clear tunnel of sand ..... ACCOMPLISHED ____

DMCCC 7. Return to LCC ..... ACCOMPLISHED ____

NOTE

The tunnel ends five feet below the ground surface. Continuing with the escape requires considerable effort within the unventilated tunnel; the air in the tunnel will tend to become high in carbon dioxide content. To alleviate this condition, the missile combat crew should alternate working periods in the tunnel of five minutes apiece.

If required, stale air in tunnel may be purged with high-pressure air from shock isolator as follows:

8. Prepare for tunnel purge operation
   a. Air cylinder shut-off valve ..... CLOSED ____

b. Isolator RESERVOIR BLEED valve ..... OPENED _____
c. Isolator RESERVOIR BLEED valve (after bleeding system air)..... CLOSED _____
d. Isolator flexible tubing .. DISCONNECTED _____
e. Set air cylinder shut-off valve at maximum permissible setting ..... ACCOMPLISHED _____
f. Isolator PANEL SHUTOFF valve ..... CLOSED _____

9. Accomplish tunnel purge operation after each five minute work period:
a. Isolator PANEL SHUTOFF valve. OPENED _____
b. Air jet directed into tunnel ..... ACCOMPLISHED _____
c. Isolator PANEL SHUTOFF valve . CLOSED _____

10. Remove remaining sand .... ACCOMPLISHED _____

11. Four retainer pins ..... REMOVED _____

12. 2 x 4's ..... REMOVED _____

13. Insulation ..... REMOVED _____

14. Tunnel through earth..... ACCOMPLISHED _____

XXVI thru XXVIII
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