Missile Launch/Missile Officer Atlas Branch Department of Missile Training Sheppard Air Force Base, Texas

#### OPERATION OF THE COUNTDOWN GROUP

1.

OZR1821B/3121B-4-II+1-P3

August 1961

Student Workbook

## **OBJECTIVE**:

To familiarize the student with the operation of the countdown group. EQUIPMENT: 20022 (State of the student state of the state of the

1. Trainer T-501, T-502, or T-502A INSTRUCTIONS TO STUDENT:

The student will operate the controls of the countdown group. He will analyze faults that the instructor may insert. After each control is operated and/or each sequence is completed, list indications in space provided. Then answer the following questions.

#### Warmup, Operating Procedure

1. On power distribution panel 1A2A1, turn on the 28V DC, 115V 60 cycle and / 200/115V 400 cycle switches.

Indication:

- On master programmer panel, turn CONTROL SELECTOR switch to LOCAL AUTO.
  Indications:
- 3. Depress LAMP TEST pushbutton. Roma in TROMAT patwords yd tepres toeled .1

Indications:

## FOR INSTRUCTIONAL PURPOSES ONLY

· David Jenkins 556th SMS -scanned by Jeff Stephens- atlasbases.homestead.com

#### OZR1821B/3121B-4-II-1-P3

4. Throw MGS switch to ON.

Atlas Branch Atlas Branch Department of Missile Training Shephard Air Force Base, Texas

I. Traindr T-501, T-502, or T-502A

Indications:

OPERATION OF THE COUNTDOWN GROUP

5. After warmup has been completed:

Indications:

to nucline the the states in the operation of the country of

- 6. What is the purpose of the preceeding steps? Why are they necessary? 91003
- 7. Assuming that the missile has just been installed and you are readying it for flight, what is the next sequence?

The student will operate the controls of the countdown group. He will

On power distribution panel IAZA1, tarm on the 260 BC, 1150 60 sycle and

MGS Checkout Procedure and insert. After each carbon MGS Checkout Procedure and and a sector and

1. Depress INITIATE CHECKOUT pushbutton.

Indications:

2. MGS Checkout complete

Indications:

3. What is the purpose of the MGS checkout sequence?

## Simulated Countdown Operating Procedure

- 1. Select target by throwing TARGET SELECTOR switch to A or B, as ordered.
  - Indications:
- Depress INITIATE COUNTDOWN pushbutton switch.
  Indications:

M INSTRUCTIONAL PURPOSES

2

# OZR1821B/3121B-4-II-1-P3

What two basic components constitute the countylows group AMOO NWOOTNUOD .	
Name the stepping switches in the countdown group. What is : anoitasibnle?	4.
4. What is the purpose of the COUNTDOWN sequence?	
Where can a countdown be initiated?	
Simulated IGS Inertial Operating Procedure resolations of the some partial operating Procedure	
Depress IGS INERTIAL pushbutton.	
What operation must have been satisfactorily accomplished before a countdown can be initiated? : ROUTADIONI	
Return to Standby Procedure	• 6.
Depress RETURN TO READINESS pushbutton on master programmer panel.	
Can a red light malfunction be overridden in checkout?	
Can a marginal malfunction be overridden in countdown?	
What is the level to which a malfunct encoding Procedure	
1. Depress INITIATE A-CS (IG) CHECK pushbutton on master programmer.	
What is the purpose of ACSIG e/o?	. ÞI
What is the purpose of MGS c/o?	
2. A-CS checkout complete. Stol beau test set 20A off at the MM	16.
Which drawer in the countdown group contains the malfunction: another in the	.71
3. What is the purpose of the A-CS (IG) checkout sequence?	
What check is the ACS test set scheduled for in the P-1 inspection?	
What is the purpose of the integration test?	
1. What is the purpose of the countdown group?	

2. Where are the countdown groups located?

3

#### OZR1821B/3121B-4-II-1-P3

- 3. What two basic components constitute the countdown group? 9000 MW007M000
- 4. Name the stepping switches in the countdown group. What is their purpose?
- 5. Where can a checkout of the IGS be initiated?
- 6. Where can a countdown be initiated?
- 7. What sequence must be satisfactorily completed before a checkout can be initiated?
- 8. What operation must have been satisfactorily accomplished before a countdown can be initiated?
- 9. When can a red light malfunction occur in the IGS?
- 10. When can a marginal malfunction occur in the IGS?
- 11. Can a red light malfunction be overridden in checkout?
- 12. Can a marginal malfunction be overridden in countdown?
- 13. What is the level to which a malfunction can be isolated in MGS checkout? Platform c/o? Computer c/o at the LSB? Computer c/o at the SMA?
- 14. What is the purpose of ACSIG c/o?
- 15. What is the purpose of MGS c/o?
- 16. What is the ACS test set used for?
- 17. Which drawer in the countdown group contains the malfunction patch?
- 18. What IGS components are necessary for an MGS c/o? Platform c/o? Computer c/o? ACSIG c/o?
- 19. What check is the ACS test set scheduled for in the P-1 inspection?
- 20. What is the purpose of the integration test?

4

2. Where are the countdown groups located?