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Operations

**ELECTRONIC WARFARE INTEGRATED
REPROGRAMMING (EWIR)**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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OPR: 3 OSS/DOW (Capt Patrick A. Thusius)
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This instruction implements AFPD 10-7, *Command and Control Warfare*. It prescribes responsibilities and procedures for operations involving the electronic reprogramming of F-15 Tactical Electronic Warfare Systems (TEWS) during higher headquarters exercise (SERENE BYTE), or real world tasking (PACER WARE). It applies to 3rd Operations Support Squadron Weapons and Tactics flight (3 OSS/OSK), 19th Fighter Squadron (19 FS), 54th Fighter Squadron (54 FS), 90th Fighter Squadron (90 FS), 517th Airlift Squadron (517 AS), 3rd Component Repair Squadron (3 CRS), 3rd Operations Group Quality Assurance (3 OG/OGQ), 3rd Wing Command Post Maintenance (3 WG/CPM), 3rd Logistics Support Squadron Logistics Group Quality Assurance (3 LSS/LGQA), 3rd Operations Support Squadron Consolidated Support Section (3 OSS/OSME) and 3rd Supply Squadron Material Storage Distribution Flight Inspection Element (3 SUPS/LGSDI) personnel. This publication does not apply to US Air Force Reserve or National Guard units and members.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

1. Objectives:

- 1.1. Exercise electronic warfare (EW) reprogramming procedures for all reprogrammable electronic warfare systems.
- 1.2. Validate local procedures for dissemination of emergency reprogramming.
- 1.3. Identify and report shortfalls in EW systems, associated support equipment, communications network, and operational/maintenance/communications procedures.

2. Responsibilities/Procedures. The 3 OSS/OSK is the office of primary responsibility (OPR) for all wing reprogramming activities.

2.1. The 3 OSS/OSK will:

- 2.1.1. Ensure a current SERENE BYTE/PACER WARE after duty/weekend notification letter is on file at the 3rd Wing Maintenance Operations Center (3 WG/CPM).
- 2.1.2. Notify Wing Commander (3 WG/CC) and 3rd Operations Group Commander (3 OG/CC) of SERENE BYTE/PACER WARE tasking. Brief changes in the threat environment and the effects of reprogramming on F-15 TEWS operation and displays.
- 2.1.3. Notify 3 OSS/INO (Intel) and all affected squadron DOWs. Brief changes in the threat environment and effects of reprogramming on F-15 TEWS operation and displays.
- 2.1.4. Terminate the exercise (SERENE BYTE) and advise the 3 OG/CC of completion after receiving notification from the 3 OSS Maintenance Support Section (3 OSS/OSME), that all required reprogramming actions have been completed, and all systems checks were successful/unsuccessful.
- 2.1.5. Notify HQ PACAF/DOW by classified unit loading message (ULM) when SERENE BYTE/PACER WARE is completed, or when it is determined that the wing will be unable to comply in the allowed time. **NOTE:** During MINIMIZE conditions, other methods can be used.
- 2.1.6. Prepare and submit classified after action reports for reprogramming taskings to the appropriate agencies in accordance with the world-wide SERENE BYTE exercise plan. **NOTE:** During MINIMIZE conditions, other methods can be used.

2.2. The 3 OSS/OSME (Maintenance Support Section) will:

- 2.2.1. Function as overall manager for the 3 WG SERENE BYTE/PACER WARE program.
- 2.2.2. Ensure all following recipients of SERENE BYTE/PACER WARE message traffic have a separate SERENE BYTE/PACER WARE message management letter on file at the 3rd Communication Squadron Base Communications Center (3 CS/SCBT) and 3 WG /CPM. **NOTE:** During MINIMIZE conditions, other methods can be used.
 - 2.2.2.1. 3 OG/OGQ.
 - 2.2.2.2. 3 CRS/LGM, LGMV.
 - 2.2.2.3. 3 LSS/LGQA.
 - 2.2.2.4. 19 FS/MA, MAOS.
 - 2.2.2.5. 54 FS/MA, MAOS.
 - 2.2.2.6. 90 FS/MA, MAOS.
 - 2.2.2.7. 517 AS/MA, MAOS.
 - 2.2.2.8. 3 OSS/OSK, OSME.
 - 2.2.2.9. COPE THUNDER.
 - 2.2.2.10. 3 WG/CPM.
- 2.2.3. Verify appropriate agencies assign a terminal area security officer (TASO) for the bulletin board system (BBS).

- 2.2.4. Verify appropriate agencies forward TASSO information to 68 TSS/ESR, Eglin AFB, Florida and (Electronic Combat Support Flight AFSOC Robins AFB, Georgia , 517th specific).
 - 2.2.5. Ensure units register secure communications with the appropriate Reprogramming Centers (RC) BBS.
 - 2.2.6. Track status of required support equipment.
 - 2.2.7. Assist in the coordination of associated support equipment as required.
 - 2.2.8. Develop local procedures for implementation and documentation of SERENE BYTE/PACER WARE programs.
 - 2.2.9. Immediately notify 3 OSS/OSK upon completion of all required reprogramming actions and successful checks of all systems.
 - 2.2.10. Collate time sequence records of each flying squadron and 3 CRS organization's activities. This information will be provided, along with problems encountered and suggestions for improvements to 3 OSS/OSK within two workdays of SERENE BYTE/PACER WARE completion in a classified format in accordance with the world-wide SERENE BYTE exercise plan.
- 2.3. The 3 WG/CSBT (Communications Center) will:
- 2.3.1. Maintain squadron authorization letters for receipt of SERENE BYTE/PACER WARE message traffic.
 - 2.3.2. Provide backup capability to the Maintenance Operations Center during contingency operations.
 - 2.3.3. Immediately notify the Maintenance Operations Center that a 3 WG/3 OG SERENE BYTE/PACER WARE message is ready for transmission via secure fax, or pickup.
- 2.4. The 3 WG/CPM (Maintenance Operations Control Center) will:
- 2.4.1. Ensure 3 WG/CPM personnel are included on the Base Communication Center authorization letter for receipt of SERENE BYTE/PACER WARE message traffic.
 - 2.4.2. Notify the appropriate 3 WG agency personnel **IMMEDIATELY** upon receipt or notification of SERENE BYTE/PACER WARE message traffic.
 - 2.4.3. During contingency operations the Maintenance Operations Center will pick up, or delegate pick up of SERENE BYTE/PACER WARE message traffic.
 - 2.4.4. Collect message traffic for 3 OSS/OSME and 3 OSS/OSK.
 - 2.4.5. Maintain after duty/weekend telephonic notification letter for 3 OSS/OSK, 3 OSS/OSME, 3 OG/OGQ, 3 CRS, 19 FS, 54 FS, 90 FS and 517 AS personnel.
 - 2.4.5.1. 3 OSS/OSK, OSME.
 - 2.4.5.2. 19 FS/MA, MAOS.
 - 2.4.5.3. 54 FS/MA, MAOS.
 - 2.4.5.4. 90 FS/MA, MAOS.
 - 2.4.5.5. 517 AS/MA, MAOS.
 - 2.4.5.6. 3 CRS/LGM, LGMV.

2.4.5.7. 3 OG/OGQ.

2.4.5.8. 3 LSS/LGQA.

2.4.5.9. AFETS.

2.4.5.10. COPE THUNDER.

2.4.6. Submit an after action report to 3 OSS/OSME within 1 working day following termination of SERENE BYTE/PACER WARE operations.

2.5. The 3 OG/OGQ (Quality Assurance) will:

2.5.1. Ensure after duty/weekend telephonic notification letter is on file with 3 WG/CPM.

2.5.2. Provide authorized access letter to flying squadrons and 3WG/CPM for SERENE BYTE/PACER WARE.

2.5.3. Obtain SERENE BYTE/PACER WARE tasking message traffic from flying squadrons and ensure SERENE BYTE/PACER WARE time compliance technical order (TCTO) procedures are performed in accordance with applicable directives.

2.5.4. Monitor reprogramming activities of flying squadrons, and submit after action report to 3 OSS/ OSME within 1 day following termination of SERENE BYTE/PACER WARE operations.

2.5.5. Immediately notify 3 OSS/OSME if unable to meet SERENE BYTE/PACER WARE suspense.

2.6. The 3 CRS/LGMV (Avionics Flight) will:

2.6.1. Submit a list of personnel authorized receipt of SERENE BYTE/PACER WARE messages to 3 WG/CPM, 3 CS/SCBT, and 3 OSS/OSME semiannually.

2.6.2. Identify TASO changes to 3 OSS/OSME and maintain current personnel authorization file with 68 TSS/ESR.

2.6.3. Ensure secure communications is registered with the appropriate RC's BBS.

2.6.4. Obtain message traffic from 3 WG/CPM or through the BBS to perform in-shop reprogramming.

2.6.5. Coordinate with 19 FS, 54 FS, 90 FS and 517 AS to transfer required assets to/from 3 CRS/LGMV.

2.6.6. Provide backup reprogramming capabilities for units unable to reprogram assets due to equipment failures.

2.6.7. Immediately notify 3 OSS/OSME, and LSS/LGQA if unable to reprogram assets.

2.6.8. Coordinate with 3 SUPS/LGSDI on transfer of all affected supply assets for SERENE BYTE/PACER WARE reprogramming.

2.6.9. Submit an after action report input to include times, shortfalls, and coordination problems to 3 OSS/OSME within one workday, following the termination of SERENE BYTE/PACER WARE operations in accordance with the world-wide SERENE BYTE exercise plan.

2.6.10. Helps staff the EWIR action team.

2.7. The 3 LSS/LGQA (Quality Assurance) will:

- 2.7.1. Provide authorized access letter 3 CRS/ LGRV and 3 WG/CPM for SERENE BYTE/PACER WARE.
 - 2.7.2. Monitor reprogramming activities of CRS /LGMV, and submit an after action report to 3 OSS/OSME within 1 day following termination of SERENE BYTE/PACER WARE operations.
 - 2.7.3. Immediately notify 3 OSS/OSME if unable to meet SERENE BYTE/PACER WARE sus-pense.
- 2.8. The 19 FS, 54 FS, 90 FS, and 517 AS will:
- 2.8.1. Submit a list of personnel authorized receipt of SERENE BYTE/PACER WARE messages to 3 WG/CPM, 3 CS/SCBT, 3 OSS/ OSME, 3 OG/OGQ, and 3 CRS/LGMV, semiannually, or as needed.
 - 2.8.2. Identify TASO changes to 3 OSS/OSME and maintain current personnel authorization file with 68 TSS/ESR, Eglin AFB, Florida and (Electronic Combat Support Flight AFSOC Robins AFB, Georgia , 517th specific).
 - 2.8.3. Ensure secure communications is registered with the appropriate RC's BBS.
 - 2.8.4. Ensure after duty/weekend telephonic notification letter is on file with 3 WG/CPM.
 - 2.8.5. Obtain message traffic from 3 WG/CPM or through the BBS to perform reprogramming.
 - 2.8.6. Immediately notify 3 OG/ OGQ and 3 OSS/OSME if unable to perform the reprogram-ming.
 - 2.8.7. CRS will provide backup reprogramming capabilities for units unable to reprogram assets due to equipment failures.
 - 2.8.8. Submit an after action report input to include times, shortfalls, and coordination problems to 3 OSS/OSME within one workday, following the termination of SERENE BYTE/ PACER WARE operations in accordance with the world-wide SERENE BYTE exercise plan.
 - 2.8.9. Helps staff the EWIR action team.

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