COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

This instruction implements Air Force Policy Directive (AFPD) 10-7, *Command and Control Warfare*. It establishes procedures for a timely, accurate, and effective response to the Electronic Warfare Integrated Reprogramming (EWIR) process IAW Air Force Instruction (AFI) 10-703, *Electronic Warfare Integrated Reprogramming*. This instruction applies to all wing organizations with electronic warfare or inter-base communication responsibilities. Attachment 1 is a list of abbreviations, acronyms, and terms used in this instruction. Ensure that all records created as a result of processes prescribed in this publication are maintained IAW Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate functional chain of command.

SUMMARY OF CHANGES

This document has been revised and must be completely reviewed. Major changes include office symbol updates, removal of obsolete or old base organizations, and updates to systems covered by the EWIR process.

1. General.

1.1. EWIR is a communication intensive process, requiring close interaction with multiple wing agencies and is directed by the 31 Operational Support Squadron (OSS) Electronic Combat Pilot (ECP).

1.2. EWIR is developed and implemented through PACER WARE and SERENE BYTE Messages from the Air Warfare Center (AWC) and HQ USAFE/A3TW. PACER WARE is the unclassified term for an actual change or notification of a deficiency to an Electronic Warfare (EW) system. SERENE BYTE is the unclassified term for an exercise change or deficiency notification to an EW system. This instruction governs how the 31 FW will respond to an EWIR Message.

1.3. During contingency operations or periods of increased operations tempo the 31 OSS/OSK ECP may request a waiver letter from the 31 Operations Group Commander (OG/CC) to excuse the 31 FW from participating in SERENE BYTE exercises. The ECP will then distribute copies of this waiver letter to all 31 FW agencies responsible for EWIR notification or processing.

1.4. Successful EWIR implementation requires a continuous flow of information between all participants. All 31 FW units affected by an EWIR implementation will maintain contact with the 31 OSS/OSK ECP.

2. Notification.

2.1. Attachment 2 shows a flow chart schematic of the notification process for an EWIR Message.

2.2. Upon receipt of an EWIR Message the Command Post will immediately notify the 31st Maintenance Group (MXG) Maintenance Operation Center (MOC) and the 31 OSS/OSK ECP. If the 31 OSS/OSK ECP cannot be contacted, the Command Post will then contact an alternate listed on the 31 OSS/OSK PACER WARE/SERENE BYTE message recall roster.

3. EWIR Message Types.

3.1. The four primary EWIR Message types are listed in AFI 10-703.

4. 31 FW EWIR Response.

4.1. Upon receipt of a Serene Byte/Pacer Ware message, Command Post personnel will immediately notify the 31 OSS/OSK ECP and 31 MXG MOC via telephone. Only the unclassified title will be passed over the telephone. Additionally, during telephonic notification the Command Post will also advise on the methods of dissemination available (NIPRNET, SIPRNET, Hardcopy (except for the MOC, AUTODIN receipt will require pick-up). The Command Post will log the time and name of the ECP/MOC personnel notified. ECP and MOC action will be dependent upon the EW system listed in Attachment 11, Appendix A (or Appendix B when supporting deployed Combat Air Force (CAF) units during contingency operations), then the ECP and MOC will take the following actions:

4.1.1. System Impact Message (SIM):

4.1.1.1. The 31 OSS/OSK ECP will immediately download the message using secure electronic means. After reviewing the message the ECP will give copies to the Wing Weapons Officer, each squadron's ECP and Weapons Officer, as a last resort, the ECP will leave a copy of the message with the squadron Top-3. During contingency operations the ECP will immediately notify the 31 FW/CC, 31 OG/CC, and 31 MXG/CC. Otherwise, the ECP will notify the 31 FW/CC, 31 OG/CC, and 31 MXG/CC as soon as possible during normal duty. In all cases the 31 OSS/OSK ECP will research and advise the 31 OG/CC of all available options to counter or minimize the identified EW shortfall.

4.1.1.2. The 31 MXG MOC will immediately notify the Aircraft Maintenance Squadron's Production Supervisors who in turn will immediately notify their designated Avionics Specialist personnel. The MOC will also notify the primary or alternate POC from the 31 MXG Wing Avionics Manager (WAM) using the recall roster supplied by the 31 MXG/WAM. MOC will record the time and name of each person notified. If the maintainers in the Aircraft Maintenance Unit (AMUs) cannot download the message using secure electronic means then the AMUs are responsible for dispatching a courier to pick up the EWIR message from the MOC. If the message concerns the ALQ-131 Electronic Counter Measures (ECM) pod then the MOC will also immediately notify the 31 MXS/MXMVE. If the 31 MXS/MXMVE cannot download the message using secure electronic means then the 31 MXS/MXMVE is responsible for dispatching a courier to pick up the EWIR message from the MOC.

4.1.2. Reprogramming Impact Message (RIM):

4.1.2.1. The 31 OSS/OSK ECP will download the message using secure electronic means as soon as practical. Immediate action is not required. For example, if notified in the evening or on the weekend, then the ECP will download the message first thing the next day. After reviewing the message the ECP will notify the 31 FW/CC, 31 OG/CC, 31 MXG/CC, Wing Weapons Officer and each squadron's ECP or Weapons Officer and provide them a copy of the RIM if needed. A RIM logically precedes an Implementation Message (IMP). Therefore, the ECP will contact HQ USAFE/A3TW and ask if an IMP will follow the RIM. If so, the ECP will advise the Wing Weapons Officer and instruct the squadrons' ECP/Weapons Officer to have their maintenance personnel download the appropriate software from the Multi-Service EW Data Distribution System (MSDDS) and be prepared to reprogram the affected EW system.

4.1.2.2. The 31 MXG MOC will respond identically to a RIM as described earlier for an EWIR SIM.

4.1.3. Maintenance Instruction Message (MIM) or TCT Message:

4.1.3.1. The 31 OSS/OSK ECP will immediately notify the Wing Weapons Officer and each squadron weapons officer or ECP and read them the unclassified EWIR message title. If the squadron does not require further assistance then the 31 OSS/OSK ECP will treat this message as a RIM. If the MIM or TCT Message requires further clarification then the 31 OSS/OSK ECP will coordinate with HQ USAFE/A3TW for clarification.

4.1.3.2. The 31 MXG MOC will respond identically to a MIM or TCT Message as described earlier for an EWIR SIM.

4.1.4. IMP:

4.1.4.1. The 31 OSS/OSK ECP will immediately notify the 31 FW/CC, 31 OG/CC, and 31 MXG/CC. The ECP will then notify the Wing Weapons Officer, each squadron's ECP and Weapons Officer. If none is available, then as a last resort the ECP will notify the squadron Top-3. Prior to reprogramming the ECP will ensure the squadron's ECP or Weapons Officer is aware of all changes to the affected EW systems. Once reprogramming begins, the ECP will work directly with the 31 MXG/WAM to facilitate a timely and efficient reprogramming process. The ECP will notify and keep the 31 OG/CC and the Wing Weapons Officer informed of the reprogramming status. Once reprogramming is complete for the 31 FW the ECP will submit a Unit Load Message (ULM) within 72 hours to HQ USAFE/A3TW. The ECP will include the appropriate offices at the 53 WG and 16 AF as information recipients when sending the ULM. The ULM will state the 31 FW is in compliance and will give the completion time and any problems encountered. Finally, the ECP will notify the 31 FW/CC and 31 OG/CC when all reprogramming is complete and RIM is complied with HQ USAFE/A3TW.

4.1.4.2. The 31 MXG MOC will respond in an urgent manner to an IMP using the procedures described earlier for an EWIR SIM. In addition, the MOC will record the start and completion time of the first and last 31 FW aircraft modified. MOC will also notify the ECP of completion of reprogramming.

5. Responsibilities.

5.1. 31 OSS/OSK ECP will:

5.1.1. Act as the overall coordinator and single POC for implementation of all 31 FW EWIR activities. This will include reprogramming of deployed aircraft, if required.

5.1.2. Act as the OPR for this EWIR Instruction and distribute changes.

5.1.3. Direct the EWIR Action Team and convene the Team as required to review and update EWIR procedures.

5.1.4. Review pilot and intelligence inputs to include Operational Reports and Mission Reports (MISREPs) for potential EW system deficiencies and prepare an Operational Change Request (OCR) when discrepancies are identified.

5.1.5. Keep pilots informed on current and reprogrammed EW equipment and their capabilities by publishing and briefing the contents of the latest RIMs and SIMs.

5.1.6. Maintain a current listing of operational and training software and Mission Data for EW systems.

5.1.7. Consolidate all agencies' reports and prepare a 31 FW After Action Report for HQ USAFE/A3TW within three days of reprogramming termination.

5.1.8. Ensure Command Post retains the latest copy of the EWIR Pacer Ware Recall roster.

5.1.9. Conduct local exercises as necessary to maintain continuity of the EWIR system.

5.1.10. Operate IAW this instruction and Attachment 3.

5.2. 31 FW Command Post will:

5.2.1. Immediately notify the 31 MXG MOC and the 31 OSS/OSK ECP or designated alternate of an EWIR message.

5.2.2. Ensure all Command Post controllers and mission directors are aware of applicable EWIR documents and checklists.

5.2.3. Develop a checklist IAW this instruction and Attachment 4 to respond to SERENE BYTE/PACERWARE messages.

5.3. 31 MXG MOC will:

5.3.1. Ensure personnel operating in the MOC are aware of all applicable EWIR documents and checklists.

5.3.2. Operate IAW this instruction and Attachment 5.

5.4. 31 MXS/MXMVE Electronic Warfare Shop will:

5.4.1. Ensure all personnel assigned are familiar with all applicable EWIR documents, procedures, and operating instructions.

5.4.2. Provide a list of personnel cleared for classified message pick-up to the MOC and ensure the list is current.

5.4.3. Implement EWIR changes only when directed by the 31 OSS/OSK ECP or designated alternate.

5.4.4. Advise the 31 OSS/OSK ECP of all PACER WARE / SERENE BYTE activities.

5.4.5. Submit the MXMVE EWIR Chronological Events Log to the 31 OSS/OSK ECP within one day of reprogramming termination.

5.4.6. Ensure all equipment involved with reprogramming is tested every 90 days and notify the 31 OSS/OSK ECP of any deficiencies.

5.4.7. Operate IAW this instruction and Attachment 6.

5.5. 31 AMXS/MXAAS and 31 AMXS/MXABS will:

5.5.1. Ensure all supervisors and avionics specialist personnel review applicable EWIR documents, procedures, and operating instructions.

5.5.2. Provide a list of personnel cleared for classified message pick-up to the MOC and ensure the list is current.

5.5.3. Implement EWIR changes when directed by the squadron ECP or designated alternate.

5.5.4. Notify the squadron ECP or designated alternate of any EW reprogramming problems or discrepancies encountered.

5.5.5. Ensure all equipment involved in reprogramming is updated with newest PACERWARE and tested every 90 days and notify the 31 OSS/OSK ECP of any problems, this includes the CAPRE and Enhanced Diagnostic Aid (EDNA) machines.

5.5.6. Operate IAW this instruction and Attachment 7.

5.6. 510 FS/555 FS ECP will:

5.6.1. Review all applicable EWIR documents, procedures, and operating instructions.

5.6.2. Submit an After Action Report of all squadron-reprogramming events to the 31 OSS/OSK ECP within one day of reprogramming termination.

5.6.3. Operate IAW this instruction and Attachment 8.

5.7. 31 OSS/IN will:

5.7.1. Provide the 31 OSS/OSK ECP with threat changes that impact EW systems and include this information, along with RIMs and SIMs, in mission and pilot briefings.

5.7.2. Review pilot debriefings and mission reports for unusual EW equipment operation that could indicate a potential threat change.

5.7.3. Assist the 31 OSS/OSK ECP in preparing OCRs.

5.7.4. Report unusual findings in MISREPs.

5.7.5. Operate IAW this instruction and Attachment 9.

5.8. 31 MXG/WAM will:

5.8.1. Ensure all 31 MXG personnel are aware of applicable EWIR documents and checklists.

5.8.2. Operate IAW this instruction and Attachment 10.

6. 31 FW Organization.

6.1. All 31 FW organizations will ensure that all personnel involved in EW reprogramming are familiar with this instruction.

JON A. NORMAN, Brigadier General, USAF
Commander

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFDP 10-7, *Command and Control Warfare,* 6 September 2006

AFI 10-703, *Electronic Warfare Integrated Reprogramming,* 19 October 2010

Abbreviations and Acronyms

AMU—Aviation Maintenance Unit

AWC—Air Warfare Center

BCC—Base Communication Center

CAF—Combat Air Force

CMDS—Counter Measures Dispenser System

ECM—Electronic Counter Measures

EDNA—Enhanced Diagnostic Aid

EWIR—Electronic Warfare Integrated Reprogramming

ILSE—Intermediate Level Support Equipment

IMP—Implementation Message

MIM—Maintenance Instruction Message

MISREP—Mission Report

MLV—Memory Loader Verifier

MOC—Maintenance Operation Center

MSDDS—Multi-Service Data Distribution System

MXG—Maintenance Group

OCR—Operational Change Request

OG—Operations Group

OSK—31 OSS Weapons and Tactics

RIM—Reprogramming Impact Message
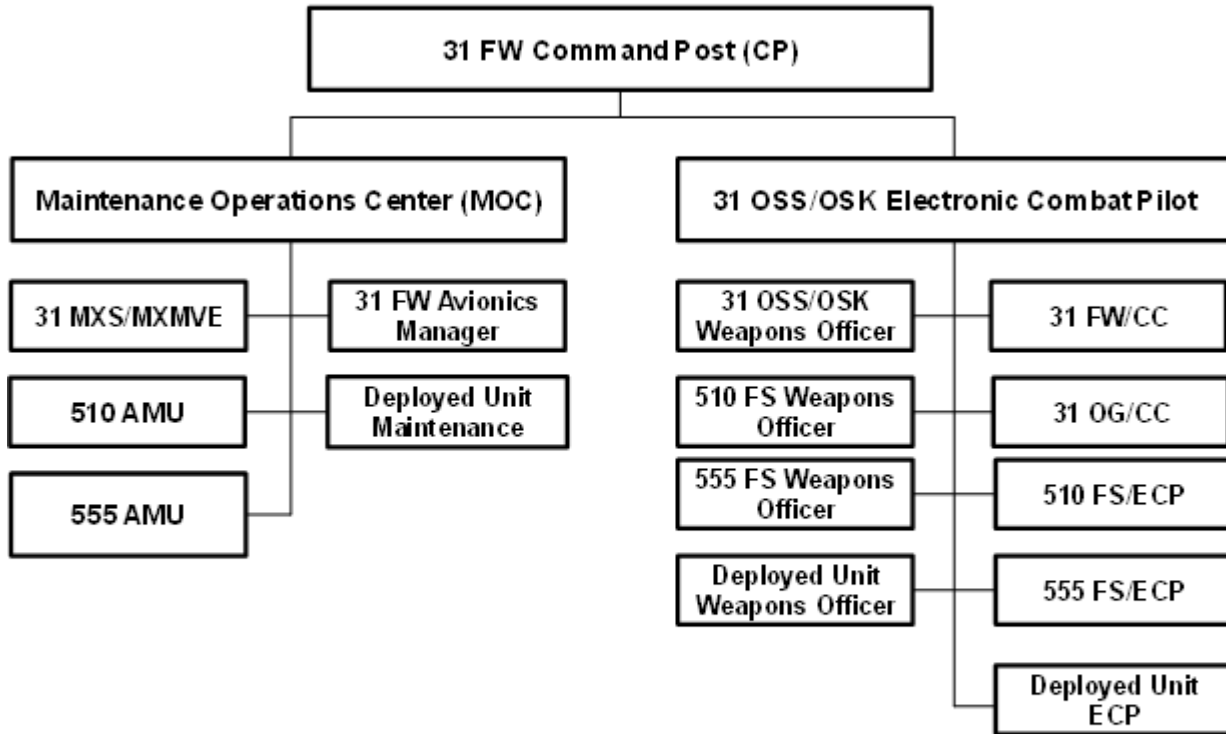
RWR—Radar Warning Receiver

SIM—System Impact Message

ULM—Unit Loading Message

WAM—31 FW Avionics Manager

Attachment 2

EWIR NOTIFICATION FLOW DIAGRAM

Attachment 3

31 OSS/OSK ECP PROCEDURES FOR EWIR

A3.1. The 31 OSS/OSK ECP is responsible for the Electronic Warfare (EW) systems listed in Attachment 11, Appendix A and will notify the appropriate 31 FW agencies with changes to these systems. In addition, the 31 OSS/OSK ECP will notify and assist the ECP of any USAF units deployed to the 31FW affected by a PACER WARE Message. When USAF CAF units deploy to the 31 FW in support of contingency operations the ECP will update Appendix B to reflect a current listing of EW systems deployed to the 31FW.

A3.2. In the 31 OSS/OSK ECP's absence, the alternate ECP will assume these responsibilities. The 31 OSS/OSK ECP will train and prepare all alternates to assume the responsibilities of the 31 OSS/OSK ECP in the 31 OSS/OSK ECP's absence. The 31 OSS/OSK ECP will provide the 31 FW/CP a list of alternate personnel to contact in his/her absence. The ECP will ensure all designated alternates are authorized to receive classified messages.

A3.3. See Attachment 2 for a flow chart schematic of the notification process for an EWIR message.

A3.4. When notified of a PACER WARE / SERENE BYTE message the Command Post personnel will read the unclassified message title line to the ECP over the telephone. If the message pertains to an EW system listed in Attachment 11, Appendix A or B, then the ECP will respond as described in paragraph 4 of this instruction.

A3.5. When notified of a RIM the 31 OSS/OSK ECP will contact HQ USAFE/A3TW and ask if an IMP will follow. If HQ USAFE/A3TW confirms an IMP will follow then the 31 OSS/OSK ECP will ask HQ USAFE/A3TW to send the unclassified portion of the IMP via unclassified email directly to the 31 OSS/OSK ECP. When received the 31 OSS/OSK ECP will respond to this IMP as described in paragraph 4 of this instruction.

A3.6. In addition, the ECP will notify the 31 FW/CC, OG/CC, MXG/CC, and OSS/CC of all pertinent EWIR messages. Further, during all EWIR implementations, the ECP will, as required, provide periodic status updates to the 31 FW/CC, OG/CC, MXG/CC, and OSS/CC. Likewise, the 31 OSS/OSK ECP will ensure each squadron's Weapon Officer and/or ECP are informed of the latest EW changes immediately especially before EWIR implementation occurs.

A3.7. For PACER WARE Messages that affect the 31FW the ECP will give the squadrons a memo describing the impact on our tactics or EW systems. This memo will be included in the Weapons Read File. The 31 OSS/OSK ECP will work with 31 OSS/IN to update the 31 FW smart packs with the latest EW changes.

A3.8. The 31 OSS/OSK ECP will file and catalog electronically all pertinent EWIR messages on the appropriately-classified network under the 31 OSS/OSK folder.

Attachment 4

31 FW/CP PROCEDURES FOR EWIR

A4.1. This attachment establishes procedures for 31 FW/CP response to PACER WARE/SERENE BYTE messages.

A4.2. Upon receipt of a PACER WARE/SERENE BYTE message the CP will immediately notify the 31 OSS/OSK ECP and the 31 MXG MOC. If the 31 OSS/OSK ECP cannot be contacted, the CP will then contact an alternate listed on the PACER WARE / SERENE BYTE recall roster logging the date and name of all personnel notified. NOTE: Only the unclassified title will be read over unsecure lines.

A4.3. The CP will ensure dissemination of PACERWARE/SERENE BYTE messages following telephonic notifications. Electronic (NIPR/SIPR) will be forwarded over the appropriate system received. Hardcopy messages will always be delivered to the MOC regardless of system of receipt. ECP will have to arrange pick-up from the Command Post of hardcopy AUTODIN messages.

A4.4. The CP will notify the Mission Director (if Battlestaff formed). When requested by the 31 OSS/OSK ECP, the CP will notify the 31 OG/CC and 31 MXG/CC.

A4.5. During reprogramming, the CP will provide notification assistance to the 31 OSS/OSK ECP if required.

A4.6. The CP will participate as a member of the EWIR Action Team when required by the 31 OSS/OSK ECP.

Attachment 5

31 MXG MOC PROCEDURES FOR EWIR

A5.1. When notified of a PACER WARE / SERENE BYTE message pertaining to an EW system listed in Attachment 11, Appendix A, the MOC will respond as described in paragraph 4 of this instruction.

A5.2. The MOC will maintain an EWIR Roster supplied by each AMU of personnel cleared for classified message pick-up.

A5.3. During EWIR implementation the MOC will maintain a log of reprogramming events including reprogramming start and completion times as well as any problems or anomalies encountered. The MOC will submit this log to the ECP when requested.

A5.4. The MOC will participate as a member of the EWIR Action Team when required by the 31 OSS/OSK ECP.

Attachment 6

31 MXS/MXMVE PROCEDURES FOR EWIR

A6.1. The 31 MXS/MXMVE will maintain an updated letter with the MOC listing personnel authorized to receive EWIR messages and data.

A6.2. Upon notification of a reprogramming message the 31 MXS/MXMVE will:

A6.2.1. Dispatch a courier to the MOC if required to pick up the message.

A6.2.2. Open the MXMVE EWIR Chronological Events Log and enter the Date/Time Group (DTG) of all significant events during reprogramming.

A6.2.3. Ensure the 31 OSS/OSK ECP and MXMVE supervision is aware that a PACER WARE / SERENE BYTE are in process.

A6.2.4. Prepare equipment needed to perform preprogramming including the Intermediate Level Support Equipment (ILSE) and CAPRE. Perform any test procedures required.

A6.2.5. Download the data from the AWC Multi-Service Data Distribution System (MSDDS).

A6.3. When the EWIR data is received the 31 MXS/MXMVE will:

A6.3.1. Format and load the data into the ILSE or CAPRE.

A6.3.2. Load the program into an operational pod and verify the program is correct by using the Jam Display. Comply with all technical orders and EWIR Time Compliance Technical Order TCTO data.

A6.3.3. Notify the 31 OSS/OSK ECP immediately if problems encountered.

A6.3.4. Reprogram CAPREs in the shop and those arriving from the 510/555 AMU.

A6.3.5. Reprogram the number of pods determined by the 31 OSS/OSK ECP after receiving implementation authorization from the 31 OSS/OSK ECP via telephone or written NIPRNET message.

A6.3.6. Change pod side panel placards to show current mission data load.

A6.3.7. Notify the 31 OSS/OSK ECP of all reprogramming actions and any difficulties encountered.

A6.3.8. Notify the 31 OSS/OSK ECP and MOC when reprogramming is complete.

A6.4. The 31 MXS/MXMVE will return reprogrammed pods to their original configuration for SERENE BYTE exercise when directed by the 31 OSS/OSK ECP.

A6.5. Within one day of reprogramming termination the 31 MXS/MXMVE will update the pod status report on the shared drive. Subsequently, 31 MXS/MXMVE will send a message to the 31 OSS/OSK ECP with this report, the MXMVE EWIR Chronological Events Log, a description of problems encountered, recommendations for improvements, and an explanation for any pods not reprogrammed.

A6.6. The 31 MXS/MXMVE will participate as a member of the EWIR Action Team when required by the 31 OSS/OSK ECP.

Attachment 7

31 AMXS/MXAAS AND MXABS PROCEDURES FOR EWIR

A7.1. Each squadron will maintain an updated letter with the MOC listing personnel authorized to receive EWIR messages and data.

A7.2. Upon notification of a reprogramming commitment:

A7.2.1. The avionics specialist personnel will download the appropriate messages from the AWC MSDDS or pick-up the message from the MOC.

A7.2.2. The Production Supervisor will coordinate with squadron operations to determine the priority and sequence to reprogram aircraft.

A7.3. When reprogramming the Radar Warning Receiver (RWR) and Counter Measures Dispenser System (CMDS) EW systems listed in Attachment 11, Appendix A the avionics specialist personnel will:

A7.3.1. Download the reprogramming data from the AWC MSDDS or pick-up the data from the squadron or 31 OSS/OSK ECP.

A7.3.2. Load the data files onto the EDNA or appropriate machine. Confirm the PLM-4 machines have the most current software if an RWR PACERWARE was implemented.

A7.3.3. Reprogram the number of aircraft determined by the squadron ECP using the EDNA after receiving the implementation authorization from the squadron/31 OSS/OSK ECP.

A7.3.4. Ensure aircraft forms indicate reprogramming of the effected EW system.

A7.3.5. Return reprogrammed systems to their original configuration for SERENE BYTE exercises as directed by the squadron ECP or the 31 OSS/OSK ECP.

A7.3.6. Notify the squadron ECP of all reprogramming events and any problems encountered.

A7.4. For ALQ-131 ECM pod reprogramming requiring flightline reprogramming the avionics specialist personnel will:

A7.4.1. Acquire Memory Loader Verifier (MLVs) loaded with the new data from the 31 MXS/MXMVE.

A7.4.2. Reprogram the number of pods determined by the squadron ECP using the MLVs after receiving the implementation authorization from the squadron ECP.

A7.4.3. Write the current mission tape on the placard on the pod. Ensure the aircraft forms, on the 781A info note page, indicate reprogramming of the pod and whether it is a combat or training tape. (Example: On the pod - MT/PT 6112. In the forms - ECM combat tape loaded. MT/PT 6112)

A7.4.4. Return reprogrammed pods to their original configuration for SERENE BYTE exercises when directed by the squadron/31 OSS/OSK ECP.

A7.4.5. Notify the squadron ECP and 31 MXS/MXMVE of all reprogramming events and any problems encountered.

A7.5. The 31 AMXS/MXAAS and MXABS will notify the MOC of reprogramming start and completion times.

A7.6. The 31 AMXS/MXAAS and MXABS will submit a report to the squadron ECP after completion of reprogramming. The report should include a detailed description of the reprogramming process, a description of problems encountered, and recommendations for improvement.

A7.7. The 31 AMXS/MXAAS and MXABS will participate as a member of the EWIR Action Team when the 31 OSS/OSK ECP convenes a meeting.

Attachment 8

510/555 FS ECP PROCEDURES FOR EWIR

A8.1. Communication between the FS ECP and the 31 OSS/OSK ECP is critical to successful EWIR implementation and notification. The FS ECP will ensure the 31 OSS/OSK ECP can contact the FS ECP or a designated alternate.

A8.2. The FS ECP will work closely with the AMU avionics specialists to gain a working knowledge of the procedures involved when reprogramming EW systems.

A8.3. The FS ECP will brief the FS/IN and ensure all squadron pilots are aware of latest deficiencies and changes to EW systems.

A8.4. After notification of a reprogramming commitment, the FS ECP will act as the overall FS coordinator for implementation within the squadron. The FS ECP will:

A8.4.1. Notify the AMU Production Supervisor and avionics NCOIC.

A8.4.2. Print out a copy or pick-up the EWIR message from the 31 OSS/OSK ECP if required.

A8.4.3. Distribute EWIR message and data disks to the avionics specialist if required.

A8.4.4. Immediately notify the Production Supervisor and avionics NCOIC to begin reprogramming the number of aircraft and pods determined by the 31 OSS/OSK ECP after receiving implementation authority from the 31 OSS/OSK ECP.

A8.4.5. Notify the 31 OSS/OSK ECP of all reprogramming events and any problems encountered.

A8.4.6. Direct AMU avionics specialists to return all aircraft and pods to their original configuration for SERENE BYTE exercises when instructed by the 31 OSS/OSK ECP.

A8.5. The FS/ECP will submit a report via NIPRNET to the 31 OSS/OSK ECP within one day of reprogramming termination. This report should include a detailed description of the reprogramming process, description of problems encountered, pilots briefed, and recommendations for improvement.

A8.6. When tasked by the 31 OSS/OSK ECP the FS ECP will assume the 31 OSS/OSK ECP responsibilities when the 31 OSS/OSK ECP is absent.

A8.7. The FS ECP will participate as a member of the EWIR Action Team when the 31 OSS/OSK ECP convenes a meeting.

Attachment 9

31 OSS/IN PROCEDURES FOR EWIR

A9.1. The 31 OSS/IN will monitor all available intelligence dissemination systems and MISREPs for changes in threat parameters and tactics. The 31 OSS/IN will:

A9.1.1. Notify the 31 OSS/OSK ECP of any relevant changes.

A9.1.2. Assist the 31 OSS/OSK ECP in preparing OCRs.

A9.2. Upon notification of an EWIR SIM or RIM the 31 OSS/IN will:

A9.2.1. Assist the 31 OSS/OSK ECP to ensure all pilots are aware of threat parameter/tactics changes and EW system deficiencies and/or changes.

A9.2.2. Update the Electronic Order of Battle if required.

A9.2.3. Evaluate EWIR changes with the 31 OSS/OSK ECP for impact on EW system settings or tactical employment of EW equipment.

A9.2.4. Coordinate with the 31 OSS/OSK ECP for updates to the 31 FW *Smart Packs* reflecting the latest EW system and threat parameter changes.

A9.3. The 31 OSS/IN will participate as a member of the EWIR Action Team when required by the 31 OSS/OSK ECP.

Attachment 10

31 MXG/WAM PROCEDURES FOR EWIR

A10.1. This attachment establishes the procedures the 31 MXG/WAM will follow when notified of an EWIR message.

A10.2. When notified of a PACER WARE / SERENE BYTE message the 31 MXG/WAM will:

A10.2.1. Pick-up a copy of the message from MOC if required.

A10.2.2. Contact as applicable the 31 MXS/MXMVE or the 31 AMXS/MXAAS or 31 AMXS/MXABS avionics specialist flight and provide any assistance needed.

A10.2.3. Cross flow information between both fighter squadrons and the 31 MXS/MXMVE to ensure a quick and efficient EWIR implementation.

A10.2.4. Work closely with the 31 OSS/OSK ECP and keep the 31 OSS/OSK ECP informed of any potential reprogramming problems.

A10.2.5. When requested by the 31 OSS/OSK ECP relay information and delivers messages from the 31 OSS/OSK ECP to the 31 AMXS/MXAAS or MXABS and the 31 MXS/MXMVE.

A10.2.6. Record tail numbers of aircraft reprogrammed and serial numbers of ECM pods reprogrammed.

A10.2.7. Record an explanation and physical location of 31 FW aircraft or ECM pods not reprogrammed.

A10.2.8. Submit an After Action Report to the 31 OSS/OSK ECP when requested. This report will include an explanation for 31 FW aircraft or ECM pods not reprogrammed.

A10.3. The 31 MXG/WAM will maintain an updated letter with the MOC listing a primary and an alternate to notify of an EWIR message. The 31 MXG/WAM will ensure the primary and designated alternates can receive classified messages.

A10.4. The 31 MXG/WAM will participate as a member of the EWIR Action Team when the 31 OSS/OSK ECP convenes a meeting.

Attachment 11

31 FW DEPLOYED ELECTRONIC WARFARE SYSTEM

Appendix A

31 FW Electronic Warfare Systems

I. RWR

(a). ALR-56M

II. CMDS

(a). ALE-47

III. ECM Pod

(a). ALQ-131

(b). ALE-50

IV. HTS Pod

Appendix B

Deployed Electronic Warfare Systems

NOTE: The following information is not current but provided only as an example.

Spangdahlem AB/Shaw AFB (F16CJ):

I. RWR

(a). ALR-56M

II. CMDS

(a). ALE-47

III. ECM Pod

(a). ALQ-131

(b). ALE-50

Lakenheath AB (F15E):

I. RWR

(a). ALR-56C

II. CMDS

III. ECM