

**BY ORDER OF THE COMMANDER
445TH AIRLIFT WING**

**445TH AIRLIFT WING
INSTRUCTION 10-701**



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Operations

REPROGRAMMING ALR-47/ARR-47

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This instruction implements Air Force Policy Directive (AFPD) 10-7, Command And Control Warfare. This instruction extends the guidance of Air Force Instruction (AFI) 10-701, Operations Security (OPSEC). It assigns responsibilities for implementing a timely, secure and survivable means of reprogramming ALE-47/AAR-47 systems on assigned aircraft. It applies to all units under the 445th Airlift Wing (445 AW). Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the Air Force Information Management Tool (AF IMT) 847, Recommendation for Change of Publication; route AF IMTs 847 from the field through the appropriate functional's chain of command. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Manual (AFMAN) 33-363, Management of Records, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at <https://www.my.af.mil/gcss-af61a/afirms/afirms>.

1. Responsibilities:

- 1.1. The wing commander is responsible for the implementation of this program.
- 1.2. The 445th Operations Support Squadron (445 OSS) Weapons and Tactics Officer (WTO) is responsible to coordinate Electronic Warfare Integrated Reprogramming (EWIR) activities. The WTO will set up an EWIR action team consisting of operations, maintenance, intelligence, and communications personnel to:
 - 1.2.1. Develop procedures for receiving, sending and distributing reprogramming messages.

- 1.2.2. Ensure access to applicable Reprogramming Centers (RCs) Bulletin Board System (BBS).
 - 1.2.3. Establish a Defense Message System (DMS) functional account (classified and unclassified, as required) for the wing.
 - 1.2.4. Participate in reprogramming exercises as directed.
 - 1.2.5. Report reprogramming exercise results in accordance with AFI 10-703, Electronic Warfare Integrated Reprogramming.
 - 1.2.6. Direct the EWIR action team.
 - 1.2.7. Review findings of anomalies from 445 OSS Intelligence (IN) and prepares an Operational Change Requests (OCR) when discrepancies are found.
 - 1.2.8. Ensures aircrews are informed of current Electronic Warfare (EW) equipment capabilities by using all available sources, including: Test plans and result, PACER WARE (PW) messages, System handbooks or Electronic Combat (EC) mission guides, Air Force Tactics Techniques and Procedures (AFTTP)
 - 1.2.9. Responsible for instituting a process that will notify the EWIR action team when EWIR PACER WARE Messages have been received.
 - 1.2.10. Is the owner of the PW DMS account.
 - 1.2.11. Works with the Operations Group (OG) to prioritize EW equipment software or hardware changes.
 - 1.2.12. Sends all required EWIR reports and messages to higher headquarters and subordinate organizations, as appropriate.
 - 1.2.13. Maintains a current listing of operational and training software for each of the EW systems.
- 1.3. The 445th Maintenance Squadron Weapons Task Qualification Manager (WTQM) will:
- 1.3.1. Ensure required EW reprogramming equipment is available and operational (such as Secure Telephone Unit (STU-III)/ Secure Telephone Equipment (STE), Digital Computer System (DCS), Program Load Verifier (PLV), Memory Load Verifier (MLV), Common Aircraft Portable Reprogramming Equipment (CAPRE) to support reprogramming. If not, notify the WTO.
 - 1.3.2. Ensure adequate personnel have access to the appropriate RC's BBS to conduct actual and exercise reprogramming actions at home station.
 - 1.3.3. Implement changes only after WTO approval.
 - 1.3.4. Keep the WTO informed of changes and provide timing data, as required.
 - 1.3.5. Participate in the EWIR action team.
- 1.4. The 445 OSS/IN will:
- 1.4.1. Provides the WTO with threat changes that may impact EW systems and includes this information, along with PW messages, in aircrew mission briefings.

1.4.2. Reviews aircrew debriefings and mission reports (MISREPs) for EW equipment anomalies, which may indicate threat parameter changes and reports these findings to the WTO for action. Help the WTO prepare OCRs.

1.4.3. Participate in the EWIR action team.

1.5. 445th Communications Flight (445 CF) will:

1.5.1. Ensure DMS offices, base communications centers, and network control centers comply with information processing instructions and develop OIs to provide instructions for handling EW messages and data.

1.5.2. Participate in the EWIR action team.

1.5.3. Quickly identifies communications deficiencies affecting EWIR capability to WTO.

2. Procedures:

2.1. The 445 OSS Commander (CC) will assign a primary and alternate EW Point of Contact (POC). EW POC will be the WTO. The WTO will coordinate EWIR activities and perform duties in accordance with paragraph 1.2.

2.2. The 445th Maintenance Group (MXG)/CC will assign a primary and alternate WTQM. The WTQM will be the MXG POC for EWIR. The WTQM will perform duties in accordance with paragraph 1.3. The Electronic Countermeasure Section will:

2.2.1. When notified by WTO of reprogramming requirements, will acquire software and load software on aircraft systems in accordance with applicable technical orders.

2.2.2. Reprogramming of electronic countermeasure equipment will be administered as a commodity TCTO for configuration management purposes. Maintenance Operations Flight (MOF) Plans and Scheduling (P&S) will coordinate with the WTO before implementing software changes.

2.3. The 445 OSS/CC will assign a primary and alternate Intelligence POC. They will perform duties in accordance with paragraph 1.4.

2.4. The 445 CF/CC will assign a primary and alternate to participate in the EWIR team. The EWIR communication member will perform duties in accordance with paragraph 1.5.

2.5. Adopted Forms:

AF IMT 847, *Recommendation for Changes of Publication*

STEPHEN D. GOEMAN, Col, USAFR
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 10-7, *Command and Control Warfare*, 06 SEP 2006

AFI 10-703, *Electronic Warfare Integrated Reprogramming (EWIR)*, 30 NOV 2007

AFI 21-101(SUP), *Aerospace Equipment Maintenance Management*, 29 JUN 2006

Abbreviations and Acronyms

AFTTP—Air Force Tactics Techniques and Procedures

CAPRE—Common Aircraft Portable Reprogramming Equipment

DCS—Digital Computer System

DMS—Defense Message System

EC—Electronic Combat

EWIR—Electronic Warfare Integrated Reprogramming

MIREP—Mission Report

MLV—Memory Loader Verifier

OCR—Operational Change Request

PLV—Program Loader Verifier

PW—PACER WARE

RC—Reprogramming Center (53 WG ((ACC)) ((53 EWG)), ECSF ((AFSOC)), and WR-ALC for some FMS supported systems)

STU—Secure Telephone Unit

TCTO—Time Compliance Technical Order

WTO—Weapons and Tactics Officer

WTQM—Weapons Task Qualification Manager

Terms

Automatic Digital Network (AUTODIN)—AUTODIN is a switched network of the Defense Information System which functions as a single, integrated, worldwide, high-speed, computer-controlled, general-purpose communications network.

Bulletin Board System (BBS)—The BBS is a means of transmitting digital data and EWIR message traffic to operational locations. Normally, data and messages are available on the BBS almost simultaneously with their transmission over AUTODIN. The BBS uses the STU-III/DCSs to transmit digital data, via commercial or Defense Switch Network (DSN) voice lines, or SIPRNET, from reprogramming centers directly to operational locations which possess STU-III/DCSs and appropriate communications software. Since the BBS is a "pull" system, units must be notified by message or telephone that new MD software has been loaded on the BBS. With the implementation of the Defense Message System, the BBS will continue to be a source for the transmission of reprogramming data and EWIR message traffic.

Defense Message System (DMS)—DMS is a flexible, secure, commercial-off-the-shelf (COTS) based system providing multi-media messaging and directory services taking advantage of the underlying Defense Information Infrastructure network and services. DMS is a new way of doing electronic organizational messaging. DMS is eliminating the need for the Automatic DMS is a integrated suite of applications designed to run on the Defense Information System Network (DISN). DMS is NOT a network and is the system of record for "ORGANIZATIONAL" messaging and services.

Electronic Warfare Integrated Reprogramming (EWIR)—The process that fully integrates operations, intelligence, communications, logistics, and other support functions to provide changes to reprogrammable electronic warfare equipment hardware and software, tactics, and equipment settings. EWIR gives the Air Force a clear and comprehensive picture of tasks, data, staffing, and the interrelationships between the agencies that reprogram EW equipment. This process forms the basis for developing Air Force procedures, organizations, facilities, and expertise to ensure responsive EW reprogramming during peacetime, wartime, and contingencies.

Operational Change Request (OCR)—A formal request to the appropriate major command and support command facilities that identifies the inability of an electronic warfare system to meet operational requirements. In emergencies, an OCR identifies the inability to discriminate or respond to a threat and then requests mission data or operational flight program (OFP) changes to correct the problem.

PACER WARE—The term for actual electronic warfare system changes issued during peacetime, contingencies, or wartime operations. PACER WARE actions can be at the routine, urgent, or emergency level as required.

Operational Change Request (OCR)—A formal request to the appropriate major command and support command facilities that identifies the inability of an electronic warfare system to meet operational requirements. In emergencies, an OCR identifies the inability to discriminate or respond to a threat and then requests mission data or operational flight program (OFP) changes to correct the problem.

Reprogramming Center (RC)—Its primary function is planning, designing, testing, and fielding of EW system OFP updates.

Reprogramming Centers EW Systems

53EWG, Eglin AFB FL Bomber, fighter, reconnaissance and FMS systems

Electronic Combat Support Flight (ECSF) Special Operations, airlift, and helicopter systems

WR—ALC/LNE All U.S. systems

WR—ALC/LNI FMS systems