

**BY ORDER OF THE COMMANDER
TYNDALL AIR FORCE BASE**

**TYNDALL AIRFORCE BASE
INSTRUCTION 21-102**



31 OCTOBER 2011
Certified Current on 18 February 2014
MAINTENANCE

**IDENTIFICATION FRIEND OR FOE (IFF)
MODE 4 SYSTEMS RELIABILITY
PROGRAM**

COMPLIANCE WITH THIS INSTRUCTION IS MANDATORY

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OPR: 325 MXG/MXQA

Certified by: 325 MXG/MXQ
(MSgt E. McKinley)

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This instruction implements AFD 21-1, *Air and Space Maintenance*. It establishes responsibilities and outlines procedures for completion of the 325th Fighter Wing, IFF Mode 4 Program in accordance with AFI 21-101 and AETC SUP 1, Aerospace Equipment Maintenance Management. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 33-363, Management of Records, and are disposed of in accordance with the Air Force Records Disposition Schedule (RDS) available at <https://www.my.af.mil/gcss-af61a/afirms/afirms/rims.cfm>.

SUMMARY OF CHANGES

Responsibilities and evaluation requirements to reflect the use of the Mode 4 Systems Reliability Program Checklist.

1. GENERAL.

1.1. These programs are intended to increase systems reliability and ensure survivability in a hostile electronic threat environment. It is imperative aircrews have the latest operational IFF Mode 4 codes available. These systems must be maintained at the highest level of reliability possible. This program is effective immediately and applies to all equipped with IFF Mode 4. Commanders/supervisors are responsible for enforcing the procedures and policies contained herein.

1.2. Guidance herein applies to the F-22 MDS.

2. 325th OPERATIONS SUPPORT SQUADRON (325 OSS) RESPONSIBILITIES.

2.1. The wing Electronic Combat Pilot (ECP) will:

2.1.1. Ensure all aircraft pilots are briefed on the requirements of this OI.

2.2. Prior to evaluation by ground crew personnel, pilots will:

2.2.1. Ensure compliance with the current 325th Fighter Wing Raptor Admin Standards.

2.2.2. Perform the systems built-in checks as required.

3. AIRCRAFT MAINTENANCE UNITS (AMU) RESPONSIBILITIES.

3.1. The AMU IFF Mode 4 monitor will:

3.1.1. Forward an appointment letter for a primary and alternate Mode 4 monitor to the 325 MXG Avionics Manager (325 MXG/MXQ). Appointment letters will be updated annually during the month of January and upon change of assigned personnel.

3.1.2. Maintain an IFF Mode 4 program book. The program book will contain a copy of this instruction, the program monitor appointment letter, the last 12 months of weekly Mode 4 ground test results, recorded on the TAFB Form 16. Forms are available digitally on the internet at <https://e-publishing.tyndall.af.mil/IMTs.htm>.

3.1.3. Document weekly IFF Mode 4 reports using Form 16 format.

3.1.3.1. Ensure all discrepancies found during weekly IFF Mode 4 evaluations are documented in the Integrated Maintenance information System (IMIS). Discrepancies will be troubleshoot and corrected as required. The results and job control number will be included on the Form 16.

3.1.3.2. Forward completed copies of Form 16 to the 325 MXG Avionics Manager and AMXS supervision NLT close of business the Friday of the week tested.

3.1.4. Ensure discrepancies found during the IFF Mode 4/RWR roll-thru are troubleshoot and corrected as required.

3.5. The AMU Production section will:

3.5.1. Ensure all discrepancies found during the IFF Mode 4 evaluation are documented in IMIS and corrected as required.

4. MODE 4 GROUND EVALUATIONS REQUIREMENTS.

4.1. LCL 325FW-106, *Mode 4 Systems Reliability Program Checklist*, will be used as a procedural checklist for Mode 4 ground evaluations.

4.2. During weekly checks, IFF Mode 4 will be evaluated by the owning AMU prior to an aircraft leaving the parking area. This will allow for maintenance “red-ball” repair actions as necessary. The 100 percent in 60 days requirement, for all assigned aircraft, will be accomplished by performing ground checks at least 1-day a week, on the first goes of the day.

5. DEPLOYMENTS REQUIREMENTS.

5.1. Units tasked to deploy in support of contingency operations should deploy appropriate IFF Mode 4 equipment and maintenance personnel. Prior to departing for any destination

without COMSEC storage facilities, AMU program monitors will contact their local COMSEC managers.

6. FORMS OR IMTS (ADOPTED AND PRESCRIBED).

6.1. TAFB IMT FORM 16, WEEKLY MODE 4 Ground Test Results (Attachment 2).

Craig W. Hall, Col, USAF
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Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFPD 21-1, *Air and Space Maintenance*

Attachment 2

WEEKLY MODE 4 GROUND TEST RESULTS					
FB					DATE
AIRCRAFT	RATING	SORTIE 1	OPTIONAL SORTIE 2	OPTIONAL SORTIE 3	
	Good				
	Bad				
	Good				
	Bad				
	Good				
	Bad				
	Good				
	Bad				
	Good				
	Bad				
	Good				
	Bad				
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