

**BY ORDER OF THE COMMANDER
452D AIR MOBILITY WING**

452D AIR MOBILITY WING 21-121

23 MAY 2024



Maintenance

**TEST, MEASUREMENT, AND
DIAGNOSTIC EQUIPMENT CONTROL**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This Instruction implements Air Force Policy Directive (AFPD) 21-1, *Air and Space Maintenance*. This 452d Air Mobility Wing Instruction (AMWI) extends the guidance of Air Force Instruction (AFI) 21-101, *Aircraft and Equipment Maintenance Management*, AFI 21-101_AFRC_SUP 1, *Aircraft and Equipment Maintenance Management Air Force Instruction*, Technical Order (T.O.) 00-20-14, *Air Force Meteorology and Calibration*, T.O. 33-1-27, *Logistics Support of Precision*, and T.O. 37C11-1-1, *Maintenance Instruction of Pressure Gauges Used on Liquid Oxygen Systems*. It will be the responsibility of the 452 AMW Test, Measurement and Diagnostic Equipment representatives to comply with the guidance and instructions. This AMWI is applicable to all assigned personnel in the 452d Air Mobility Wing. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the Air Force (AF) Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through Major Command (MAJCOM) publications/forms managers. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“**T-0, T-1, T-2, T-3**”) number following the compliance statement. 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 Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS) located at <https://www.my.af.mil/gessaf61a/afirms/afirms/>. The use of the name or mark of any specific manufacturer, commercial product, commodity or service in this publication does not imply endorsement by the Air Force.

SUMMARY OF CHANGES

This publication has been revised to reflect the change in Central Collection Point (CCP) location and management OPR of TMDE program.

1. Roles and Responsibilities.

1.1. 412th Maintenance Squadron (MXS) Test Measurement & Diagnostic Equipment Flight (TMDE) Edwards Air Force Base (AFB) is a Type IIC Laboratory that provides general calibration and repair support to aircraft, missiles, and/or ground systems for the 452 AMW.

1.1.1. The hours for Customer drop off and pick up of TMDE are Monday-Thursday 0730-1500 and Friday 0730-1100.

1.2. Central Collection Point (CCP):

1.2.1. Serves as the single point of contact between Edwards AFB and Owing Work Centers. The program is managed by the 452 MXS Fabrication Flight

1.2.2. Responsible for delivery and pick-up of TMDE requiring calibration to 412 MXS/TMDE Flight, Edwards AFB, every Monday. If Monday is a holiday, delivery and pick-ups will resume the following Tuesday.

1.2.3. Customer hours for Owing Work Center (OWC) TMDE drop-off/pick-up are Tuesday and Thursday from 0700-1100 at Building 2306 (Isochronal Hangar) room 122.

1.2.4. Provides Training to OWC & TMDE monitors.

1.3. Owing Work Center (OWC):

1.3.1. Responsible for all due dates & serviceability of TMDE assigned to your account.

1.3.2. Provide priority request letter to the CCP Manager for TMDE requiring Emergency or Mission Essential calibration. See [Attachment 1](#).

1.3.3. Provide the CCP Manager with an appointment letter of assigned TMDE Monitor for their respective OWC. See [Attachment 2](#).

1.4. Test Measurement & Diagnostic Equipment (TMDE) Monitors:

1.4.1. Responsible for turning in TMDE within 10 days of calibration due date to the CCP during Customer hours. Anything outside of customer hours needs to be coordinated with CCP Supervisor.

1.4.2. Ensure TMDE is clean and contains associated AFTO Form 350 tag.

1.4.3. Be familiar with the 412 MXS TMDE Customer Handbook for all procedures for TMDE service calibrations.

2. Procedures.

2.1. TMDE Calibration

2.1.1. Refer to 412 MXS TMDE Customer Handbook for Initial, Overdue, Priority, and On-Site calibrations procedures.

2.1.2. All Calibrations will be coordinated through the CCP.

2.2. CCP Duties to include Edwards AFB TMDE Deliveries/Pick-up.

2.2.1. The 452 MXS CCP Manager will take primary responsibilities of CCP Duties and TMDE transportation. 452 MXS will provide one additional person to assist TMDE personnel for the following months:

2.2.1.1. January, April, July, October.

2.2.2. The 752d Aircraft Maintenance Squadron (AMXS) will provide one person to assist TMDE personnel for the following months:

2.2.2.1. February, May, August, November.

2.2.3. The 452 AMXS will provide one person to assist TMDE personnel for the following months:

2.2.3.1. March, June, September, December.

BRYAN M. BAILEY, Col, USAF
Commander, 452 AMW

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

AFPD 21-1, *Air and Space Maintenance*, 1 August 2018

AFI 21-101, *Aircraft and Equipment Maintenance Management*, 15 January 2020

AFI 21-101 AFRC SUP 1, *Aircraft and Equipment Maintenance Management*, 29 August 2019

AFMAN 33-363, *Management of Records*, 20 July 2016

T.O. 37C11-1-1, *Maintenance Instruction of Pressure Gauges Used on Liquid Oxygen Systems*, 12 December 2011

T.O. 00-20-14, *Air Force Meteorology and Calibration*, 31 January 2019

T.O. 33-1-27, *Logistics Support of Precision*, 17 August 2013

Adopted Form

AF Form 847, *Recommendation for Change of Publication*

AFTO Form 350, *Repairable Item Tag*

Abbreviations and Acronyms

AF—Air Force

AFB—Air Force Base

AFPD—Air Force Policy Directive

AFI—Air Force Instruction

AFMAN—Air Force Manual

AFRC—Air Force Reserve Command

AFRIMS—Air Force Records Information Management System

AFTO—Air Force Technical Order

AMW—Air Mobility Wing

AMWI—Air Mobility Wing Instruction

AMXS—Aircraft Maintenance Squadron

ARB—Air Reserve Base

CA—California

CC—Commander

CCP—Central Collection Point

CRS—Course

FSC—Federal Stock Class

IAW—In Accordance With

ID—Identification

MAJCOM—Major Command

MDC—Maintenance Data Collection

MOI—Maintenance Operating Instruction

MOC—Maintenance Operations Center

MXG—Maintenance Group

MXQ—Quality Assurance

MXS—Maintenance Squadron

OPR—Office of Primary Responsibility

OWC—Owning Work Center

PMEL—Precision Measurement Equipment Laboratories

QA—Quality Assurance

RDS—Records Disposition Schedule

TDY—Temporary Duty Assignment

T.O.—Technical Order

TMDE—Test, Measurement & Diagnostic Equipment

Attachment 2

PRIORITY REFERENCES LETTER

Figure A2.1. Priority References Letter.

EDWARDS PRECISION MEASUREMENT EQUIPMENT LABORATORY (PMEL) PRIORITY CALIBRATION/MAINTENANCE REQUEST LETTER			
FROM OWC:	COMMAND:	SQUADRON/OFFICE SYMBOL:	DATE:
Purpose: To clearly identify equipment items that require an elevated priority level based on work center requirements and mission justification.			
GENERAL ITEM INFORMATION (Fill out as much information as possible. Use OPSEC – <u>DO NOT COMPROMISE SECURITY</u> .)			
PMEL ID:	DATE REQUIRED:	PART NUMBER:	SERIAL NUMBER:
NOMENCLATURE:	IS THIS ITEM NEEDED FOR A TDY OR EXERCISE? <input type="checkbox"/> Yes <input type="checkbox"/> No		IS YOUR WORK CENTER AT A WORK STOPPAGE? (If yes, enter the work function that is stopped) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
WHAT WORK FUNCTION IS STOPPED?			
MISSION JUSTIFICATION			
MISSION IMPACT STATEMENT (Provide details of how not having this item degrades mission capability. <u>DO NOT COMPROMISE SECURITY</u> .)			
<input type="checkbox"/> EMERGENCY: One of a kind TMDE that is inoperable or due calibration and for which a critical job is at work stoppage. The TMDE has grounded an aircraft or major weapon/communication system. There is no spare or lateral support available. The TMDE is placed into work immediately and must be worked continuously until completion. I understand I must provide a technician to standby at the TMDE Flight to assist in troubleshooting and to retrieve the TMDE when completed. Emergency Priorities must be signed by the Squadron Commander, Director, Maintenance Superintendent or equivalent with a same day or next day "need-by" date.			
<input type="checkbox"/> MISSION ESSENTIAL: The TMDE is mission critical (Direct Impact), but there are no aircraft or weapon/communication systems grounded. There is no spare or lateral support available. The "need-by" date will be 3 duty days minimum from the date of request, unless the item has been in PMEL one calendar week or more and then 2 duty days is acceptable. I understand I must pick up my equipment within two hours of notification of its completion, if I am within two hours driving time (one way) of Edwards AFB, or within 24 hours if travel time one way exceeds two hours. Mission Essential Priorities must be signed by the Flight/Section Chief or Program Manager.			
WORK CENTER TECHNICAL POINT OF CONTACT (Equipment specialist that knows the requirements and can approve limited calibrations)			
Technical questions concerning this TMDE should be referred to:			
NAME:	RANK:	TELEPHONE NUMBER:	
SIGNATURE FOR DESIRED PRIORITY LEVEL (Reference T.O. 00-20-34, paragraph 3.7, for the signature required for the requested priority level)			DUTY POSITION:
<input type="checkbox"/> EMERGENCY <input type="checkbox"/> MISSION ESSENTIAL			
PMEL USE ONLY			
DATE/TIME RECEIVED:	DATE/TIME WORK IN WORK:	PRIORITY STAMP:	
APPROVED/DISAPPROVED	DATE/TIME WORK COMPLETE:		
<input type="checkbox"/> EMERGENCY <input type="checkbox"/> MISSION ESSENTIAL			
TMDE FLIGHT CHIEF OR PMEL SECTION NCOIC SIGNATURE:	OWC CONTACTED:	QA PRESELECTION STAMP:	
PERFORMING TECHNICIAN:	OWC PICKED UP:		

Attachment 3

TMDE APPOINTMENT LETTER REFERENCE

Figure A3.1. TMDE Appointment Letter Reference.



DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE COMMAND

DATE

MEMORANDUM FOR 412 MXS/MXMD

FROM: [Redacted]

SUBJECT: TMDE Appointment Letter

1. The following personnel are appointed as TMDE monitors for owning work center (OWC) code:

Organizational EMAIL:

Primary: NAME [Redacted] DSN #: [Redacted]

Date Trained: [Redacted]

e-mail address: [Redacted]

Alternate: [Redacted] DSN #: [Redacted]

Date Trained: [Redacted]

e-mail address: [Redacted]

Supervisor: [Redacted] DSN #: [Redacted]

Date Trained: [Redacted]

e-mail address: [Redacted]

Commander: [Redacted] DSN #: [Redacted]

e-mail address: [Redacted]

2. Organization: [Redacted] Office Symbol: [Redacted]

Narrative: [Redacted]

OWC is physically located at Bldg. [Redacted] Room [Redacted].

Base/Town [Redacted]

MAJCOM [Redacted] Command CODE [Redacted] (1L- AMC, 1C-ACC, 4Z-Air National Guard, etc.)

3. Please direct questions regarding this subject to either monitor above at [Redacted].

[Redacted]
FIRST MI LAST NAME, Rank, SERVICE
Flight/Section Chief/Commander