

## DATA ITEM DESCRIPTION

**Title:** Summary of Precision Measurement Equipment Laboratory (PMEL) Total Quality Program Reviews

**Number:** DI-QCIC-81111B

**Approval Date:** 19990520

**AMSC Number:** F7332

**Limitation:**

**DTIC Applicable:**

**GIDEP Applicable:**

**Office of Primary Responsibility:** AFMETCAL Det1/MLSP

**Applicable Forms:**

**Use, Relationship:**

This report allows the MAJCOM and AFMETCAL Det 1 staffs to monitor and manage the individual PMEL quality program operations. Monthly summaries of quality program related information are required from each PMEL. The summaries contain the quantity and the reason for the defects found during the Reviews performed by the PMEL under the Total Quality Program. The reason for the defects are assigned specific codes. Table 1 contains those codes assigned, as well as the type of defect. It also drives some standardization in the input.

a. This Data Item Description contains the format, and content preparation instructions for the data product generated by the specific and discrete task requirement as delineated in the contract.

b. This DID supersedes DI-QCIC-81111A.

### **Requirements:**

1. Contractor format is acceptable.
2. Reference Documents: The applicable issue of the documents cited herein, including the approval dates of any applicable amendments, notices and revisions, shall be as cited in the current issue of the Department of Defense Index of Specifications and Standards (DODISS) at the time of the solicitation; or for non-DODISS listed documents, as stated herein.
3. Content of the summaries shall include the quantity and reason for the defects found. Use Table 1 for those specific codes for the defects found in accordance with T.O.00-20-14(current edition). This T.O. can be obtained at AFMETCAL Detachment 1/MLSR, 813 Irving-Wick Dr. W. Ste 4M, Heath OH 43056-6116:

#### **A. In Process Reviews (IPRs)**

Total Input (total Job Control Numbers (JCN) created)

Total number of random IPRs selected

List of IPR items with critical non-conformities (NC) (i.e. list PMEL Automated Management System(PAMS) label number and NCs)

Percent of total input selected for random IPR

Total number of non-randomly selected (target) IPRs

List of non-randomly selected (target) IPRs completed

List of target IPRs with critical non-conformities (PAMS label number and NCs)

## DI-QCIC-81111B

## B. Quality Process Reviews (QPRs)

Total production subject to QPR

Total number of items selected for QPR

Total number of QPRs completed

Percent of total production selected for QPR

QPR items with critical non-conformities (PAMS label number and NCs)

## C. Working Standards Review (WSR)

Total number of standards available for WSR

Total number of items selected for WSR

Total number of WSRs completed

Total number of critical/high use WSRs completed

Percent of standards selected for WSR

List of WSRs with critical non-conformities (PAMS label number and NC)

## D. List of all bypassed reviews with justification for each review bypass

Table 1

SUMMARY OF Total Quality Plan Non-conformity CODES  
(Critical non-conformity codes are identified with an asterisk (\*))  
General Codes:

A02*	The item is unsafe or hazardous to use
A03*	The item is completely inoperative
A04*	The item has a function that is inoperative
A05*	The item does not meet calibration uncertainties for all parameters certified
B05	The item has a physical deficiency which affects or may affect its operation
A06*	The item has a physical deficiency which does not affect its operation
B06	The item is not clean and its condition could affect the item's operation
A07*	The item is not clean and its condition does not affect the item's operation
B07	The item has a documentation error which affects the item's accuracy or reliability
A08*	The item has a documentation error which does not affect the item's accuracy or reliability
B08	The item has an intermittent function which affects the item's accuracy or reliability
	The item has an intermittent function which does not affect the item's accuracy or reliability

## DI-QCIC-81111B

### Specific Process Codes:

- L01\* Current technical order not used, or technical order used contained an error requiring an AFTO Form 22 (affects the item's accuracy or reliability)
- L02 Current technical order not used, or technical order used contained an error requiring an AFTO Form 22 (does not affect the item's accuracy or reliability)
- L03\* Incoming or outgoing inspections were not performed or were performed incorrectly (affects the item's safety or operation)
- L04 Incoming or outgoing inspections were not performed or were performed incorrectly (does not affect the item's safety or operation)
- L05\* A full calibration could not be performed
- L06\* An overdue standard was used or a standard was incorrectly substituted during calibration of the item
- L07 The item was calibrated in an out-of-tolerance environmental condition (condition could affect accuracy of calibration)
- L08 Calibration fixtures, accessories, or tools were not used or were improperly used
- L09 Technician was not signed off on task in OJT records

### Material Control/Repair Process Codes:

- M01 Item was in awaiting parts status an excessive amount of time
- M02 Replaced parts were not documented in MDC
- M03 Incorrect UJC or SRD codes were used when ordering parts
- M04 Deficiency Report (DR) not submitted for defective parts or defective new item
- M05 Incorrect part(s) ordered or received causing delay
- M06 Part(s) on order an excessive amount of time with no follow-up action
- M07 Part(s) on bench stock, shop stock, or work order residue not used

### Production Control Process Codes

- P01 Item received dirty or had physical defects that were not documented
- P02 Item received without required documentation, technical data, or accessories
- P03 Item received overdue calibration an excessive amount of time
- P04 Item in awaiting maintenance, hold, or deferred status an excessive amount of time
- P05 Item's data not correctly reflected in PAMS database or item part number was not in 33K-1-100 and an AFTO Form 45 was not submitted
- P06 Item remained in awaiting customer pickup status an excessive amount of time
- P07 Item not appropriately documented or packaged for off-base shipment

## DI-QCIC-81111B

### Status of Review:

- N00 No Defect
- N01 Review in process-not completed

### Root Cause Codes:

#### Non-conformities attributed to calibration tech data

- C01 Wrong or invalid calibration technical data used
- C02 Calibration technical data in error (wrong specifications, required equipment not accurate enough to perform calibration)
- C03 Calibration technical data ambiguous (allows for more than one interpretation)

#### Non-conformities attributed to environmental conditions exceeding limits

- E01 Temperature exceeded limits at time of calibration
- E02 Humidity exceeded limits at time of calibration

#### Non-conformities attributed to internal failure of the TMDE reviewed

- F01 Component failure caused degradation or hard failure
- F02 Failure related to previous faulty maintenance or repair
- F03 Failure related to thermal heating

#### Non-conformities related to human error

- H01 Human error: Used when a lack of proficiency is not a contributing factor and a simple oversight or omission on the part of the individual is determined to be the root cause

#### Nonconformity attributed to an inadequate or faulty process

- I01 Process inadequate or faulty: Used when root cause analysis indicates all other root cause codes are not applicable. Pertains mainly to processes not associated with the calibration process

## DI-QCIC-81111B

### Non-conformities attributed to the standards used to perform calibration

- S01 Standard was out of tolerance
- S02 Standard was overdue calibration
- S03 Standard was limited for the function or accuracy used
- S04 Standard was intermittently malfunctioning
- S05 Accessories or calibration fixtures were faulty

### Non-conformities attributed to training deficiencies

- T01 OJT insufficient (trainer demonstrates task proficiency)
- T02 OJT insufficient (trainer does not demonstrate task proficiency)
- T03 Incorrect substitution of standards
- T04 Basic technical school deficiencies
- T05 Advanced technical school deficiencies

### Non-conformities attributed to Owner/User of equipment being reviewed

- U01 A defined Owner/User responsibility was not accomplished (Owner/User was not properly trained on responsibilities)
- U02 A defined Owner/User responsibility was not accomplished (Owner/User was properly trained on responsibilities)
- U03 Owner/User did not receive required schedules, listings, or documentation required to fulfill responsibilities
- U04 Unique mission requirements precluded Owner/User from accomplishing required responsibilities

End Of DI-QCIC-81111B