

## DATA ITEM DESCRIPTION

**Title:** Maintenance Test and Support Equipment List

**Number:** DI-SESS-80294B

**AMSC Number:** G6990

**DTIC Applicable:** No

**Office of Primary Responsibility:** NS/DA02

**Applicable Forms:** N/A

**Approval Date:** 30 OCT 2006

**Limitation:** N/A

**GIDEP Applicable:** No

### Use/relationship:

The maintenance test and support equipment (MT&SE) requirements list identifies the test parameter requirements for maintenance, test, alignment, and calibration, to support all echelons of maintenance during the operational life cycle of a system or equipment. This list also identifies the unique and special tools, materials, and test equipment required to support all echelons of maintenance.

This requirements list provides the basis for the using activity to determine if existing general purpose test equipment can be utilized, which in many cases will eliminate procurement requirements. The unique and special tools, materials, and test equipment list provides the information for the acquisition and subsequent support of each item.

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

This DID is applicable to all Government contracts requiring disclosure of specific MT&SE equipment and its justification.

This DID supersedes DI-ILSS-80294A.

### Requirements:

**1. Reference documents.** None.

**2. Format and Content:**

The Maintenance Test and Support Equipment requirements list (MT&SE) includes the

## DI-SESS-80294B

support equipment, tools and materials, including computer maintenance and support hardware and software required to maintain the system or equipment at the level of maintenance identified in the contract. The list does not include (a) test alignment and calibration equipment built into the system configuration for test and monitoring, (b) equipment required to repair or calibrate items on the MT&SE list, or © common hand tools. The Maintenance Test and Support Equipment requirements list shall contain two separate parts, a General Purpose MT&SE and a Special Purpose MT&SE.

2.1 General Purpose Maintenance Test and Support Equipment Requirements. This part includes generic test equipment that is commercially available which normally can be used for more than one purpose. (Reference sample format in Figure 1.).

2.2 Special Purpose Maintenance Test and Support Equipment Requirements. This part lists unique jigs, fixtures and special test equipment, including single source and proprietary items. (Reference sample format in Figure 2.)

3. Item information. Provides the following information for each item of test and support equipment on the list. Pertains to both General and Special Purpose MT&SE requirement Lists.

3.1 System or Equipment Under Test. Identifies the application of a recommended test item of system, subsystem, individual equipment, module, or component. Items subject to test shall be identified by the following:

- a. Manufacturer/Commercial and Government Entity (CAGE) code.
- b. Model/Part Number.
- c. Item Name.

3.2 Parameters to Be Tested. Describe the test, adjustment, or calibration to be performed. Be as general as possible, including only absolute requirements. This information reflects the actual characteristics required by the prime equipment rather than the characteristics of the particular model of support or test equipment which may be recommended. Include the following:

- a. Nature of test.
- b. Value or range of values.
- c. Tolerance of the values.

3.3 Recommended MT&SE.

3.3.1 General Purpose MT&SE. List a generic name for each item, such as oscilloscope, voltmeter, card extender, etc.

## DI-SESS-80294B

3.3.2 Special Purpose MT&SE. When a specific item of MT&SE is required, describe the item fully in accordance with paragraph 3.2.1.a, b and c above. List all special purpose MT&SE separately for the general items. Additionally, include a statement justifying the selection of each item of special purpose MT&SE. Include the unit price for each of these items.

3.4 Quantity On-Site. Record the number of support equipments required to perform the test described at the local site.

3.5 Quantity Off-Site. Record the number of support equipments required to perform the test described at the next higher echelon of maintenance, such as depot.

4. Optional data. A separate list of commercially available test equipment having the necessary capabilities to perform the preceding tests may be submitted. Using this option does not suspend the requirement for the General and Special Purpose MT&SE Requirements Lists. This list shall include as a minimum:

- a. Manufacture, CAGE code
- b. Part/Mode number
- c. List of options
- d. Nomenclature and NSN if available
- e. Unit cost

5. END DI-SESS-80294B

## DI-SESS-80294B

GENERAL PURPOSE MAINTENANCE, TEST, AND SUPPORT EQUIPMENT REQUIREMENTS LIST					
SE ITEM NO.	SYSTEM/EQUIPMENT UNDER TEST	PARAMETERS TO BE TESTED	RECOMMENDED MT&SE	QTY ON SITE	QTY OFF- SITE
1	ACCUDATA 117 DC AMPLIFIER (OBC28)	30 HZ - 20 KHZ @ 1 VRMS +/- 5% BANDPASS	RMS VOLTMETER	0	1
2	SAME	10 V P-P FROM 30 HZ - 20 KHZ VISUAL DISTORTION	OSCILLOSCOPE	0	1
3	SAME	DC PWR SUPPLY 5 VDC +/- 0.01V 10 VDC +/- 1V 14.5 VDC +/- 0.1V W/100 KOHM MIN INPUT IMPEDANCE	DC VOLTMETER	0	1
4	GENERAL/MULTIPLE USE	AC LINE CORD CONTINUITY	MULTIMETER	1	0

Remarks:

FIGURE 1, Sample Format

## DI-SESS-80294B

## SPECIAL PURPOSE MAINTENANCE, TEST, AND SUPPORT EQUIPMENT REQUIREMENTS

ITEM NO.	SYSTEM/EQUIPMENT UNDER TEST	PARAMETERS TO BE TESTED	RECOMMENDED MT&SE	QTY ON SITE	QTY OFF SITE
1	85-02277-002 (33875) HEATSINK ASSY	RECTIFIER INSTALLATION ADJUSTMENT	ALIGNMENT TOOL GE 118C8388P1	1	0
2	441C RECORDER PRECISION ECHO (54089)	TAPE TENSION ADJUSTMENT	TAPE TENSION GAGE T2-H20-1 TENDEL (54632)	1	1
3	HP-3964A (28480) RECORDER	POWER REGULATION 85-135 VAC	TRANSFORMER VARIABLE MT3A GENRAD (24655)	1	1

## Justification Statement:

. This alignment tool is specifically designed for replacement of the rectifier and if not used will cause early failure of the rectifier due to insufficient heat transfer via the heat sink. No other tool available meets requirements.

Unit cost \$50.00 EA

. This is the only known gage that will accurately measure tape tension for this adjustment. No other gage available meets requirements.

Unit cost \$350.00 EA

. No other transformer available meets requirements.

Unit cost \$212.00 EA

Figure 2, Sample Format