

MILITARY SPECIFICATION  
TEST SET, COUNTERMEASURES CHAFF  
DISPENSING SET, AN/ALM-181

This specification has been approved by the Naval Air  
Systems Command, Department of the Navy

1.0 SCOPE

1.1 Scope

The equipment covered by this specification shall have the capacity for providing operational checkout of major assemblies of the Dispensing Set, Countermeasures Chaff AN/ALE-41, including its associated Control Indicator and Interconnecting Box. This specification covers design, development and test requirements for the equipment. The equipment shall be provided for intermediate level use as defined for class 2 and 3 of MIL-T-21200.

1.2 Classification

The equipment covered by this specification shall consist of the following items:

<u>Nomenclature</u>	<u>Type Designator/ Cable Number</u>	<u>Quantity</u>	<u>Applicable Paragraph</u>
Test Set	AN/ALM-181	(1)	3.7.1
Cable Assy, 28V Input	W1	(1)	3.3.2
Cable Assy, 115V Input	W2	(1)	3.3.2
Cable Assy, Converter	W3	(1)	3.3.2
Cable Assy, NLP	W4	(1)	3.3.2
Cable Assy, EOC	W5	(1)	3.3.2

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<u>Nomenclature</u>	<u>Type Designator/ Cable Number</u>	<u>Quantity</u>	<u>Applicable Paragraph</u>
Cable Assy, CI Input	W6	(1)	3.3.2
Cable Assy, CI Output	W7	(1)	3.3.2
Cable Assy, Frame & Panel	W8	(1)	3.3.2
Cable Assy, Power Amplifier	W9	(1)	3.3.2
Cable Assy, IB	W10	(1)	3.3.2
Extender Board, Pulse Generator	113988-501	(1)	3.3.3
Extender Board, Amplifier	113988-500	(1)	3.3.3
Extender Board, Chaff Control	113991-500	(1)	3.3.3

### 1.3 Associated Equipment

There is no associated special equipment necessary to operate this equipment.

## 2.0 APPLICABLE DOCUMENTS

### 2.1 General

The following documents of the issue in effect on the date of invitation for bids or request for proposal form a part of this specification to the extent specified herein. In the event of conflict between this specification and the specifications specified herein, this specification shall govern.

#### SPECIFICATIONS

MIL-K-3926 Knob, Control (for use with Electronic Communications and Allied Equipment)

MIL-E-17555 Electronic and Electrical Equipment and Associated Repair Parts, Preparation for Delivery of

- MIL-T-18303 Test Procedures; Preproduction, Acceptance, and Life for Aircraft Electronic Equipment, Format for
- MIL-N-18307 Nomenclature and Nameplates for Aeronautical Electronic and Associated Equipment
- MIL-T-21200 Test Equipment for Use with Electronic and Electrical Equipment, General Specifications for
- MIL-D-81893 Dispensing Set, Countermeasures, Chaff AN/ALE-41

#### STANDARDS

##### Military

- MIL-STD-129 Marking for Shipment and Storage
- MIL-STD-130 Identification Marking of U.S. Military Property
- MIL-STD-454 Standard General Requirements for Electronic Equipment
- MIL-STD-461 Electromagnetic Interference Characteristics Requirement for Equipment
- MIL-STD-704 Electrical Power Aircraft Characteristics and Utilization of
- MIL-STD-794 Parts and Equipment
- MIL-STD-756A Reliability Prediction
- MIL-STD-785 Reliability Program for Systems and Equipment Development and Production

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## HANDBOOKS

Military

MIL-HDBK-217B Reliability Prediction of Electronic  
Equipment

## DRAWINGS

MBAssociates Drawings

113406	Schematic, AN/ALM-181
113291	Test Set, Countermeasures Chaff Dispensing Set, AN/ALM-181
113911	Cable Assy W1
113912	Cable Assy W2
113924	Cable Assy W3
113913	Cable Assy W4
113914	Cable Assy W5
113915	Cable Assy W6
113916	Cable Assy W7
113917	Cable Assy W8
113918	Cable Assy W9
113910	Cable Assy W10
113988-500	Amplifier Extender Board
113988-501	Pulse Generator Extender Board
113991-500	Chaff Control Extender Board

2.2.1 Availability of Documents

When requesting specifications, drawings, and publications, refer to both title and number. Copies of this specification and applicable specifications required by contractors in connection with

specific procurement functions may be obtained upon application to the Commanding Officer, Publications and Forms Center, Code 105, 5801 Tabor Avenue, Philadelphia, PA 19120.

### 3.0 REQUIREMENTS

#### 3.1 Testing

This specification makes provision for testing (see paragraph 4).

#### 3.2 Materials, Parts, and Processes

The materials, parts, and processes shall be selected using MIL-T-21200 as a guide.

##### 3.2.1 Selection of Parts, Materials, and Processes

Except as specified herein, MIL-T-21200 shall be used as a guide for the selection of parts, materials and processes.

#### 3.3 Design and Construction

The design and construction of the equipment shall use MIL-T-21200 as a guideline except as modified herein.

##### 3.3.1 Total Weight

The total weight of the equipment, including cables, shall be a minimum consistent with good design and shall not exceed 65 pounds.

##### 3.3.2 Cables and Connectors

The equipment shall provide for the use of cables and connectors. Insofar as is practicable, all connectors on the front panel shall be mounted along the lower edge of the panel and in no case shall their location be such that the connecting cables will interfere with the operating controls. Cable assemblies shall be as depicted in paragraph 2.1, DRAWINGS.

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3.3.2.1 Cabling

The test equipment cabling shall be compatible with the equipment tested. It shall be the electrical equivalent of the cabling used in the normal installation of the equipment being tested.

3.3.2.2 External Connectors

External connectors shall provide for the following:

<u>Reference Designation</u>	<u>Connector Type</u>	<u>Function</u>
J-1	MS3124F-12-3P	28V Input
J-2	MS3124F-12-10P	115V Input
J-3	MS3124F-18-11S	Converter
J-4	MS3124F-10-6S	Nonlinear Potentiometer
J-5	MS3124F-10-6S	End of Cycle
J-6	MS3124F-14-19S	Control Indicator Input
J-7	MS3124F-14-15S	Control Indicator Output
J-8	MS3124F-16-26S	Frame & Panel Assy
J-9	MS3124F-16-8S	Power Amplifier
J-10	MS3124F-22-55S	Interconnecting Box

3.3.3 Extender Boards

The equipment shall provide extender boards to be used in conjunction with specific major subassemblies to provide ease of troubleshooting and maintenance. Provisions for storing the extender boards are made in the cover of the test set. Extender boards are depicted in paragraph 2.1, DRAWINGS.

3.3.4 Controls

Operating controls shall be in accordance with MIL-STD-454, Requirement 28. Controls shall be provided for:

- Internal Power Application from External Source
- Internal Power Application from Converter
- Meter Function Selection for Polarity or Continuity

- Meter Signal Selection
- Exercise of Percent Chaff Circuitry in Control Indicator (CI)
- Exercising Motor Drive Circuits in the Frame and Panel Assembly (F & P)
- Testing the Converter and/or Power Amplifier Under Load
- Determining Proper Operation of the Power Amplifier (PA)
- Exercising the Interconnecting Box (IB) including:
  - Selecting Operating Parameters for Dispense Rate, Pulse Length, and Pulse Interval Functions
  - Entering Selected Parameters into the IB
  - Selecting Simulated Operating Mode
- Simulating a RHAW Signal to Test CI Circuits
- Testing 115V Circuit Continuity in CI
- Applying 28V to F & P (Simulating Closing of Power Control Relay)
- Exercising PA to Drive Motor Simulator Circuit and allowing the PA to be exercised by the F & P Assembly

### 3.4 Reliability

The contractor will conduct a reliability program using MIL-STD-785 as a guide. For reliability development, the program shall be approved by procuring activity.

#### 3.4.1 Reliability Design Evaluation

Reliability predictions will be made using design prediction procedures of MIL-STD-756A and/or MIL-HDBK-217B as a guide. Predictions shall be made in accordance with the program set forth in Paragraph 3.4.

**MIL-T-85066(AS)****3.4.1.1 Interference Control**

As a design goal, the generation of electromagnetic interference by the equipment and the vulnerability of the equipment to electromagnetic interference will be controlled within the limits of MIL-STD-461 (Notice 1), for Class 1 equipment.

**3.4.2 Nomenclature and Nameplates**

Nomenclature assignment and nameplate approval for equipment identification will be in accordance with MIL-N-18307.

**3.4.3 Service Conditions**

Service conditions (environmental) will be in accordance with the following:

**3.4.3.1 Shock**

The AN/ALM-181 shall function properly after sustaining one 20g 7ms duration intensity shock on its bottom surface (unit has four small protrusions). The response accelerometer shall be mounted in approximately the center of the underside of the control panel.

**3.4.3.2 Vibration**

The AN/ALM-181 shall function properly after sustaining a three axis sine wave vibration test within the 5 to 55 Hz range. Tests will be conducted at the following levels; 5-15-5 Hz at 0.06" D.A. for 7 min/cycle, 15-25-15 Hz at 0.04" D.A. for 3 min/cycle, and 25-55-25 Hz at 0.02" D.A. for 5 min/cycle.

**3.4.4 Standard Conditions**

The following conditions will be used to establish normal performance characteristics under standard conditions and for making laboratory bench tests.



Temperature	Room Ambient ( $25^{\circ} \pm 5^{\circ}\text{C}$ )
Altitude	Normal Ground
Vibration	None
Humidity	Room Ambient (Up to 90% relative humidity)
Input Power Voltage	$28 \pm 2\text{V DC}$

### 3.5 Transportability

Transportability requirements will be in accordance with MIL-T-21200.

### 3.6 Performance Characteristics

The performance of the equipment will be as specified herein.

#### 3.6.1 Electrical Power Source

The test equipment will operate from a power source as specified in MIL-T-21200 ( $28 \pm 2\text{V DC}$  or  $115 \pm 5\text{V AC}$ , 3 phase, 400 Hz source used with the Converter).

##### 3.6.1.1 Protection

The equipment will be capable of withstanding input power variations as imposed by abnormal electrical system operations as defined in MIL-STD-704.

### 3.7 Detail Requirements

#### 3.7.1 Test Set

AN/ALM-181 - The equipment will meet the following requirements:

##### 3.7.1.1 Function

The equipment, as depicted on MBAssociates Dwg 113291, will function as an Intermediate Maintenance Activity (IMA) tester for the AN/ALE-41 Countermeasures Chaff Dispensing Set as defined in MIL-D-81393.

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### 3.7.1.1.1 Bench Test Function

The equipment control panel will provide for simulation of control inputs and monitoring of component outputs during bench testing as described in the following paragraphs:

#### 3.7.1.1.1.1 Power Amplifier (PA)

##### 3.7.1.1.1.1.1 PA Input Signals

The equipment will provide the following input signals for the Power Amplifier:

- +28 ± 2VDC
- Power Amplifier Control signal from the Frame and Panel Assembly.

##### 3.7.1.1.1.1.2 PA Test Signals

The equipment will monitor the following signals:

- Power Amplifier Output Test Point
- Power Amplifier Output Under Load Test Point
- Power Amplifier input current meter

##### 3.7.1.1.1.1.3 PA Simulation Circuit

The equipment will provide for simulating power amplifier output.

#### 3.7.1.1.1.2 Frame and Panel Assembly (F & P)

##### 3.7.1.1.1.2.1 F & P Input Signals

The equipment will provide the following input signals for the Frame and Panel Assembly:



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- Signals for setting IB parameters direct to IB
- Signals for setting IB parameters in F & P

3.7.1.1.1.3.2 IB Test Signals

The equipment will monitor pulse mode indication.

3.7.1.1.1.3.3 IB Simulation Circuit

The equipment will provide for simulating signals for setting parameters as provided by the Control Indicator.

3.7.1.1.1.4 Control Indicator (CI)3.7.1.1.1.4.1 CI Input Signals

The equipment will provide the following input signals for the Control Indicator:

- RHAW
- 28V  $\pm$  2VDC
- 115VAC Simulated Continuity
- % Chaff
- % Chaff from F & P

3.7.1.1.1.4.2 CI Test Signals

The equipment will monitor 115 V feed through circuits.

3.7.1.1.1.4.3 CI Simulation Circuit

The equipment will provide a simulation circuit for the following:

- Operating the IB parameter setting switches
- Providing % Chaff voltage
- Simulating 115VAC Feed through

3.7.1.1.1.5 End of Cycle Box (EOC)3.7.1.1.1.5.1 EOC Input Signals

The equipment will provide the following input signals for the EOC:

- $28 \pm 2\text{VDC}$
- $-15\text{V} \pm 1\text{VDC}$
- Ground through  $560 \pm 10\%$  ohms, 2W

#### 3.7.1.1.1.5.2 EOC Test Signals

The equipment will monitor the following EOC test signals:

- % Chaff test point
- % Chaff indicators
- First POD ON indicator
- Second POD ON indicator
- NLP Output (0-15V test point)

#### 3.7.1.1.1.5.3 EOC Simulation Circuit

The equipment will provide for simulation of the CI % Chaff decoder.

#### 3.7.1.1.1.6 Converter

##### 3.7.1.1.1.6.1 Converter Input Signals

The equipment will provide an input signal of  $115 \pm 5\text{VAC}$ , 400 Hz, 3 $\emptyset$  for the Converter.

##### 3.7.1.1.1.6.2 Converter Test Signals

The equipment will monitor the following converter test signals:

- Output voltage test point
- Output voltage under load test point
- Three phase ON indicators

##### 3.7.1.1.1.6.3 Converter Simulation Circuits

The equipment will provide for simulating converter output load ( $6 \text{ ohms} \pm 10\%$  50W).

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3.7.1.2 Form Factor

The equipment will incorporate a combination case 26 inches long by 20 inches wide by 12 inches high.

3.7.1.3 Form Factor

The equipment will contain the following assemblies, subassemblies, and circuits:

- Ten cable assemblies contained in the 113979-500 case
- Combination case in which is mounted the 113407-500 Panel Assembly
- Control panel assembly which mounts the 113406-500 Circuitry
- Circuits as shown on MBAssociates Dwg. 113406.
- Printed Circuit Board extender cards for Frame and Panel Assembly per MBAssociates Dwgs. 113988-500 and 113988-501, and Printed Circuit Board extender card for the Control Indicator per MBAssociates Drwg. 113991-500.

3.7.1.4 Controls

The following controls shall be provided on the control panel assembly:

- "POWER" toggle switch with positions for "EXT", "OFF", and "CONV"
- 115VAC power switch with positions "ON" and "OFF"
- "METER FUNCTION" switch with the position for "OFF", "+" polarity, "-" polarity and "CONTINUITY"
- "METER SELECT" with 12 detent positions including
  - (1) "POWER (28V)"
  - (2) "CONVERTER OUT (28V)"
  - (3) "EXTERNAL NLP"
  - (4) "EXTERNAL % CHAFF"

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- (5) "MOTOR SIMULATOR OUT"
- (6) "PA CONTROL"
- (7) "PA OUTPUT"
- (8) "F & P % CHAFF & PULSES"
- (9) "INTERNAL % CHAFF"
- (10) "INTERNAL NLP"
- (11) "F & P DELAYED 28V"
- (12) "OFF"

- "% CHAFF" with six detent positions including "RESET", "F", "3/4", "1/2", "1/4", and "E"
- "NLP" (Non-linear potentiometer) ranging from "FULL" to "EMPTY"
- Two "HIGH CURRENT TEST/ CONVERTER/POWER AMP" pushbutton switches allowing converter and/or power amplifier to be tested under load in conjunction with a gain meter
- "TEST/POWER AMP GAIN" pushbutton switch for determining proper operation of power amplifier in conjunction with a gain meter
- Interconnecting Box (IB) controls including:
  - "DR/PL/PI" rotary switch selecting parameters for "Dispense Rate (DR)" "Pulse Length (PL)" and "Pulse Interval (PI)" functions
  - "SET" pushbutton switch for entering the selected parameters into the IB
  - "PULSE/PL/DR/PI" three-position toggle switch for selecting simulated operating mode

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- "RIIAW" toggle switch with "ON" and "OFF" positions for simulating RHAW signal to test Control Indicator (CI) circuit
- "115V FEED THRU/TEST" pushbutton switch for testing 115V circuit continuity in CI
- "DELAYED 28V ON/OFF" toggle switch with "ON" and "OFF" positions for applying 28VDC to F & P Assembly
- "PA TEST" toggle switch for exercising the Power Amplifier (PA) to drive the motor simulator circuit and for allowing the PA to be exercised by the F & P Assembly
- "CI OUTPUT" toggle switch for switching CI output from the PULSE GENERATOR to the F & P assembly.
- "MOTOR SIMULATOR" switch for switching the motor simulator from the F & P assembly output to the PA output.

### 3.7.2 Case, Test Set

The equipment will be provided with a combination case conforming to the requirements of MIL-T-21200, Paragraph 3.2.3.

### 3.8 Finish

Finish will be in accordance with MIL-T-21200, Paragraph

3.1.10.

### 3.9 Interchangeability

Interchangeability will be in accordance with MIL-STD-454, Requirement 7.

### 3.10 Workmanship

Workmanship will be in accordance with MIL-STD-454, Requirement 9.



#### 4.0 QUALITY ASSURANCE PROVISIONS

##### 4.1 Responsibility for Inspection

Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

##### 4.2 Acceptance Tests

The contractor will furnish all samples and will be responsible for accomplishing the acceptance tests. All inspection and testing will be with the approval of the procuring activity. Representatives of the procuring activities shall monitor the testing if desired. Contractors not having testing facilities satisfactory to the procuring activity will engage the service of a commercial testing laboratory acceptable to the procuring activity. The contractor will furnish test data sheets showing quantitative results for all acceptance tests. Such data sheets shall be signed by an authorized representative of the contractor or laboratory, as applicable. Acceptance tests will consist of the following:

- Individual Tests
- Special Tests

##### 4.2.1 Individual Tests

Each equipment submitted for acceptance will be subjected to the Individual Tests. These tests shall be adequate to determine compliance with the requirements of material, workmanship, and operational adequacy. As a minimum, each equipment accepted shall have passed the following tests:

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- Examination of Product
- Operational test

4.2.1.1 Examination of Product

Each equipment will be examined carefully to determine that the material and workmanship requirements have been met.

4.2.1.2 Operational Test

Each equipment will be operated to check characteristics and record adequate data to assure satisfactory equipment operation. Test procedures shall be prepared and approved in accordance with Paragraph 4.4, Test Procedures.

4.2.2 Special Tests

Special tests shall be conducted on a quantity of equipments for the purpose of checking the effect that any Class I design or material change may have on the performance of the equipment and to assure adequate quality control. Such tests will be performed if so required by the Class I Engineering Change Proposal.

4.2.2.1 Special Test Schedule

Selection of equipments for special tests shall be made on an early equipment after a Class I engineering or material change.

4.2.2.2 Scope of Tests

Special tests shall consist of such tests as are mutually established by the contractor and procuring activity. Test procedures previously approved for the preproduction tests shall be used where applicable. When not applicable, the contractor shall prepare a test procedure and submit it to the Pacific Missile Test Center, Pt. Mugu, Code 1152 for approval prior to conducting the tests.

#### 4.2.2.3 Equipment Failure

Should a failure occur during the special tests, the following action will be taken:

- Determine the cause of failure.
- Determine if the failure is a random case or design defect.
- Submit to the procuring activity for approval proposed corrective action intended to reduce the possibility of the same failure(s) occurring in future tests. Where practical, include a test in the individual test to check all equipment for this requirement until reasonable assurance is obtained that the defect has been satisfactorily corrected.

#### 4.3 First Unit Test

In addition to the acceptance tests identified in Paragraph 4.2, the first prototype unit will be subjected to the vibration environment specified in Paragraph 3.4.3.2. The first prototype unit will also be subjected to the shock environment specified in Paragraph 3.4.3.1.

#### 4.4 Test Procedures

The procedures used for conducting acceptance tests will be prepared by the contractor and submitted to the procuring activity for review and approval. Specification MIL-T-18303 shall be used as a guide for preparation of test procedures. When approved test procedures are available from previous contracts such procedures will be provided and may be used when their use is approved by the procuring activity.

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#### 4.5 Reconditioning of Tested Equipment

Equipment which has been subjected to acceptance tests shall be reconditioned by the contractor by replacing all worn or damaged items. After reworking, the contractor will resubmit the equipment for acceptance.

#### 4.6 Presubmission Testing

No item, part of complete equipment, will be submitted by the contractor until it has been previously tested and inspected by the contractor and found to comply, to the best of his knowledge and belief, with all applicable requirements.

#### 4.7 Rejection and Retest

Equipment which has been rejected may be reworked or have parts replaced to correct the defects and resubmitted for acceptance. Before resubmitting, full particulars concerning previous rejection and the action taken to correct the defects found in the original shall be furnished to the government inspector.

### 5.0 PREPARATION FOR DELIVERY

#### 5.1 General

All major units and parts of the equipment will be preserved, packaged, packed and marked for the level of shipment specified in the contract or in accordance with MIL-E-17555 and MIL-STD-794.

### 6.0 NOTES

#### 6.1 Intended Use

The equipment is intended for use as a IMA tester for the AN/ALE-41 Chaff Dispensing Set including its associated Control Indicator and Interconnecting Box.

## 6.2 Performance Objectives

Minimum size and weight, simplicity of operation, ease of maintenance, and an improvement in the performance and reliability of the specific functions beyond the requirements of the specification are objectives which shall be considered in the production of this equipment. Where a substantial reduction in size and weight or improvement in simplicity of design, performance, ease of maintenance or reliability appears likely to result from the use of materials, parts and processes other than those specified in MIL-T-21200, it is desired that their use be investigated. When investigation shows that advantages can be realized, a request for approval will be submitted to the procuring activity for consideration. Each request will be accompanied by complete supporting information.

## 6.3 Precedence of Documents

When the requirements of the contract, this specification or applicable subsidiary specifications are in conflict, the following precedence shall apply:

- Contract - The contract shall have precedence over any specification.
- This Specification - This specification shall have precedence over all applicable subsidiary and reference specifications. Any deviation from this specification, or from subsidiary specifications where applicable, will be specifically approved in writing for the procuring activity.

## 6.4 Ordering Data

Procurement documents should specify the following:

- Title, number, and date of this specification.
- Selection of applicable levels of packaging and packing (see Paragraph 5.1).

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6.5 Specification Cognizance

This specification is under the cognizance of Naval Air Systems Command AIR-53421E.

6.6 Definitions

To be determined.

Procuring Activity Representative:

Pacific Missile Test Center  
Pt. Mugu, CA 93042  
Code 1152

Custodians

Navy - AS

Preparing Activity

Navy - AS

Project No. 5865-N015

## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

**INSTRUCTIONS:** This form is provided to solicit beneficial comments which may improve this document and enhance its use. DoD contractors, government activities, manufacturers, vendors, or other prospective users of the document are invited to submit comments to the government. Fold on lines on reverse side, staple in corner, and send to preparing activity. Attach any pertinent data which may be of use in improving this document. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity. A response will be provided to the submitter, when name and address is provided, within 30 days indicating that the 1426 was received and when any appropriate action on it will be completed.

**NOTE:** This form shall not be used to submit requests for waivers, deviations or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

DOCUMENT IDENTIFIER (Number) AND TITLE MIL-T-85066(AS) Test Set, Countermeasures Chart Dispensing Set, AN/ALM-181

NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

VENDOR       USER       MANUFACTURER

1.  HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?       IS ANY PART OF IT TOO RIGID, RESTRICTIVE, LOOSE OR AMBIGUOUS? PLEASE EXPLAIN BELOW.

A. GIVE PARAGRAPH NUMBER AND WORDING

B. RECOMMENDED WORDING CHANGE

C. REASON FOR RECOMMENDED CHANGE(S)

2. REMARKS

SUBMITTED BY (Printed or typed name and address -- Optional)

TELEPHONE NO.

DATE

DD FORM 1426  
1 OCT 76

EDITION OF 1 JAN 72 WILL BE USED UNTIL EXHAUSTED.