

MIL-P-85484(AS)  
19 February 1982

## MILITARY SPECIFICATION

### POD-TRAY SUBASSEMBLY, SIMULATING SET

This specification is approved for use by Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

#### 1. SCOPE

1.1 Scope. This specification establishes the requirements for the manufacture and acceptance of the Pod-Tray Subassembly, Simulating Set, hereafter referred to as the pod.

#### 2. APPLICABLE DOCUMENTS

##### 2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. Unless otherwise specified, the following specifications, standards, and handbooks of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this specification to the extent specified herein.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer, Naval Air Engineering Center, Engineering Specifications and Standards Department (ESSD) Code 93, Lakehurst, New Jersey 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

FSC 5841

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## SPECIFICATIONS

## MILITARY

MIL-W-5088	Wiring, Aerospace Vehicle.
MIL-E-5400	Electronic Equipment, Airborne, General Specification for.

## STANDARDS

## MILITARY

MIL-STD-129	Marking for Shipment and Storage.
MIL-STD-454	Standard General Requirements for Electronic Equipment.
DOD-STD-480	Engineering Change Proposals (ECPs) and Request for Deviation and Waivers (Long Form).
MIL-STD-794	Parts and Equipment, Procedures for Packaging and Packing of.
MIL-STD-810	Environmental Test Methods.
MIL-STD-45662	Calibration System Requirements.

## DRAWINGS

## MILITARY

NAVAL AIR SYSTEMS COMMAND  
(Code Ident. 30003)

DL 1236AS240	Data List, Pod-Tray Subassembly, Simulating Set.
1236AS258	Well, Umbilical.
1236AS270	Circuit Card Assy RF Detector and Fault Indicator.

(Copies of specifications, standards, handbooks, drawings, and publications required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

2.1.2 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

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## 3. REQUIREMENTS

3.1 Item description. The pod shall be used to house and carry the AN/DPT-1(V) modulator with attached magnetron, wave guides, and antenna. The pod consists of the following components:

- a. Tray assembly, electrical.
- b. Radome.
- c. Pod body assembly.

3.1.1 Associated equipment. The pod shall function with the following associated equipment:

- a. DOD-031 Magnetron, in accordance with MIL-E-1/1753.
- b. DOD-032 Magnetron, in accordance with MIL-E-1/1754.
- c. DOD-033 Magnetron, in accordance with MIL-E-1/1755.
- d. 940990 Modulator, AN/DPT-1(V), FSCM 49956.
- e. 1236AS247-1 and 1236AS247-3 Waveguide Monitoring Assemblies.
- f. 1236AS248-1 and 1236AS248-3 Flexible Waveguides.
- g. 1236AS249-1 and 1236AS249-3 Antenna Assemblies.
- h. SG-1189/AST-4(V) Generator-Control-Indicator.
- i. 1337AS109 Power Cable, W5.

3.2 First article. When specified (see 6.2.1), a sample shall be subjected to first article inspection and approval (see 4.6 and 6.3).

3.3 Materials, parts and processes. Unless otherwise specified herein, the selection of materials, parts and processes shall be in accordance with MIL-E-5400 and the drawings listed on DL 1236AS240.

3.3.1 Approval for nonstandard parts and materials. Approval for the use of nonstandard parts and materials shall be obtained from the procuring activity in accordance with MIL-E-5400.

3.3.2 Materials. All materials used in the construction of the pod shall be in accordance with MIL-STD-454 Requirement 4, for fungus-inert materials, Requirement 15 for ferrous alloys corrosion resistance, and Requirement 16 for dissimilar metals. Minimum use shall be made of strategic or critical materials.

3.4 Characteristics.

3.4.1 Electrical performance characteristics. The pod shall provide the components and logic circuitry necessary to interface and operate with the associated equipment (see 3.1.1). The pod shall be wired in accordance with MIL-W-5088 and the applicable drawings listed on DL 1236AS240.

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3.4.1.1 Input voltage. The input voltage shall be 115 Volts alternating current (Vac), three phase 400 Hertz (Hz) at 10 amperes per phase in accordance with MIL-STD-454, Requirement 25.

3.4.1.2 Power distribution. The pod shall distribute both 115 Vac three phase 400 Hz and 28 Vdc. The distribution shall be such that a minimum of noise is introduced into associated circuits.

3.4.1.3 Logic circuitry. The logic circuit shall consist of only one printed circuit card, which shall include the following:

- a. Reverse voltage protection.
- b. Logic power supply.
- c. Fault processor logic circuit.
- d. Detector logic circuit.
- e. Isolation of display power.
- f. Interlock relay.

3.4.1.3.1 Form factor. The logic printed circuit card shall be in accordance with Drawing 1236AS270.

3.4.1.3.2 Cooling. Natural cooling of the logic circuitry shall be in accordance with the thermal design requirements of MIL-STD-454, Requirement 52.

3.4.1.3.3 Input power. An input of 28 Vdc shall be applied to Pin 19 of connector P11.

3.4.1.3.4 Warm up. Warm up time shall be not greater than five seconds.

3.4.1.3.5 Polarity protection. The logic card shall provide reverse polarity protection to Pin 19 of connector P11.

3.4.1.3.6 Logic power. The logic shall operate on 12 Vdc. The 12 Vdc shall be provided by the card with all necessary filtration.

3.4.1.3.7 Fault processor logic. The logic circuit shall receive the following fault processor output signals from the modulator on Pin 13 of connector P11:

- a. Warm up cycle: A steady 10 Vdc to 12 Vdc level for a two to four minute period.
- b. Time out: After a two to four minute warm up the fault processor signal shall drop to a 2.00 Vdc to 2.25 Vdc level.

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## c. Fault signatures:

- (1) Latch up (see 6.4).
- (2) Load fault (see 6.4).

3.4.1.3.8 Logic circuit characteristics. The logic circuit shall provide the following:

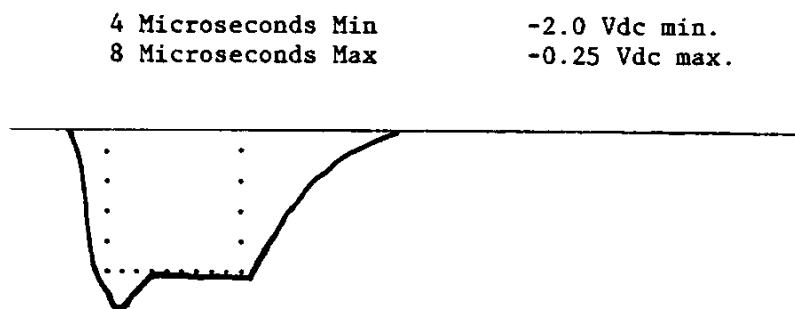
- a. Input load impedance: Impedance to the modulator shall be not less than 1 megohm.
- b. Noise rejection: The fault processor shall reject all signals of any amplitude and any polarity with a width less than 2 milliseconds (ms).

3.4.1.3.9 Fault detector circuit output. The output from the fault detector circuit output shall provide a ground to two parallel 327 incandescent lamps (labeled RDY) whenever the time out occurs. If a latch up or load fault occurs, the fault detector circuit shall cause the two 327 incandescent lamps to flash at a one-half second on, one-half second off rate. This output shall be applied to Pins 14 and 20 of connector P11.

3.4.1.3.10 RF detector. The RF detector circuit shall receive the output from the waveguide assembly detector on Pin 6 of connector P11. The detector output shall be as follows:

- a. Negative pulse.
- b. 0.4 to 0.8 microseconds in width at the 90 percent points.
- c. Not less than -2.00 Volts and not greater than -0.25 Volts amplitude when terminated, reference ground into a 1000 ohm load, as shown in Figure 1.
- d. The detector logic circuit shall provide the 1000 ohm load in (c) above.
- e. Input pulse rates shall be not less than 200 pulses per second, and shall be not greater than 4,000 pulses per second.
- f. The output from the detector logic circuit shall provide a ground to two parallel 327 incandescent lamps (labeled RAD) through Pins 10 and 11 of connector P11.

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FIGURE 1. RF detector output.

3.4.1.3.11 Isolation of display power. Isolation of the cockpit master dimmer power supply, which supplies power to the SG-1189 Generator-Control-Indicator display lights and the 28 Vdc display power to the pod, shall be provided on the logic circuit card. This card shall provide a ground to the incandescent lamps of both assemblies during the display mode, yet shall provide isolation of the two supplies whenever the ground is removed. This isolation shall be required on both the fault detector circuit and the RF detector circuit.

3.4.1.3.12 Interlock relay. A 28 Vdc relay shall be included which shall be configured ground seeking through an external switch on Pin 15 of connector P11.

3.4.2 Environmental conditions. The pod shall operate during the environmental conditions specified herein with a magnetron, modulator, waveguide monitor assembly, flexible waveguide, and an antenna properly installed (see 3.1.1).

3.4.2.1 Random vibration. Except as otherwise specified herein, the pod shall operate after exposure to the vibration test in accordance with MIL-STD-810, Method 514.2, Figure 514.2-4A. The pod shall be suspended from an AERO-7A Bomb Ejector Rack (see 3.5 and 6.5).

3.4.2.2 Shock (non-operating). The pod shall operate after exposure to the shock test in accordance with MIL-STD-810, Method 516.2, Procedure I, Figure 516.2-2, except the pod, with associated equipment installed, shall be

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suspended from the AERO-7A rack and subjected to the shock levels listed below. Ten half sine wave shocks per axis shall be applied for a total of 50 shocks.

- a. Vertical, up direction only, 25g peak for 20 ms (tensile stress imparted to the lugs).
- b. Transverse, both directions, 25g peak for 20 ms.
- c. Longitudinal, both directions, 6g peak for 20 ms.

3.4.2.3 Temperature-altitude. The pod shall operate as specified herein during exposure to the temperature-altitude tests in accordance with MIL-STD-810, Method 504.1, procedure 1, except the temperature shall be -25°C to +85°C and the altitude shall be 60,000 feet mean sea level.

3.4.3 Physical characteristics.

3.4.3.1 Form factor. Dimensions and mounting configuration of the pod shall be in accordance with the applicable drawings listed on DL 1236AS240.

3.4.3.2 Weight. The weight of the pod shall be not greater than 158 pounds.

3.4.3.3 Panel markings. Panel markings shall be in accordance with MIL-E-5400 and the applicable drawings listed on DL 1236AS240.

3.4.3.4 Design and construction. The pod shall be designed and constructed in accordance with MIL-E-5400 for Class 1, Category III equipment, the drawings listed on DL 1236AS240, and as specified herein. The contractor shall notify the procuring activity, in accordance with DOD-STD-480, of any recommended changes in design and construction.

3.4.3.5 Cabling and connectors. The pod shall be designed for the use with RF components. The umbilical well shall conform to Drawing 1236AS258. Cables and connectors shall be in accordance with MIL-E-5400.

3.4.3.6 Input/output connector. The logic card shall use the input/output connector in accordance with Drawing 1236AS270.

3.5 Government-loaned property. Unless otherwise specified in the contract (see 6.2.1), the contractor shall be loaned the following equipment in operating condition (see 3.1.1 and 6.5):

- a. DOD-031 Magnetron: 1 each
- b. DOD-032 Magnetron: 1 each
- c. DOD-033 Magnetron: 1 each
- d. 940990 Modulator, AN/DPT-1(V): 1 each

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- e. 1236AS247-1 Waveguide Monitoring Assembly: 1 each
- f. 1236AS247-3 Waveguide Monitoring Assembly: 1 each
- g. 1236AS248-1 Flexible Waveguide: 1 each
- h. 1236AS248-3 Flexible Waveguide: 1 each
- i. 1236AS249-1 Antenna: 1 each
- j. 1236AS249-3 Antenna: 1 each
- k. SG-1189/AST-4(V) Generator-Control-Indicator: 1 each
- l. 1337AS109 Power Cable, W5: 1 each
- m. AERO-7A Ejector Bomb Rack: 1 each

3.6 Workmanship. The pod, including all parts and accessories, shall be constructed and finished in accordance with MIL-STD-454, Requirement 9 and the drawings listed on DL 1236AS240. Prior to and after final assembly, the pod shall be thoroughly cleaned of metal chips and other foreign matter; also, all sharp edges and burrs shall be removed.

#### 4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspections. Unless otherwise specified in the contract or purchase order (see 6.2.1), the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.8).
- b. Quality conformance inspection (see 4.9).

4.3 Inspection conditions. Unless otherwise specified herein, all inspection conditions shall be as specified in MIL-STD-810.

4.3.1 Tolerance on specific test conditions. The allowable tolerance on specific test conditions shall be as follows:

- a. Vibration amplitude:  $\pm 10$  percent of peak.
- b. Vibration frequency:  $\pm 2$  percent.
- c. Shock loads:  $+0$ ,  $-10$  percent.
- d. Shock duration:  $\pm 20$  percent.



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4.3.2 Environmental testing conditions. Unless otherwise specified herein, the tests shall be performed under the following conditions of environment:

- a. Room temperature: +18°C to +35°C.
- b. Altitude: Normal elevation of test facility.
- c. Room humidity: Not greater than 95 percent.
- d. Vibration: Normal conditions of test facility.

4.4 Test equipment. All test equipment shall be maintained and calibrated in accordance with MIL-STD-45662. The contractor shall prepare calibration data for review by the procuring activity.

4.4.1 Test equipment accuracy. All test equipment used in the performance of tests shall have an accuracy of at least one-fifth the tolerance for the variable to be measured.

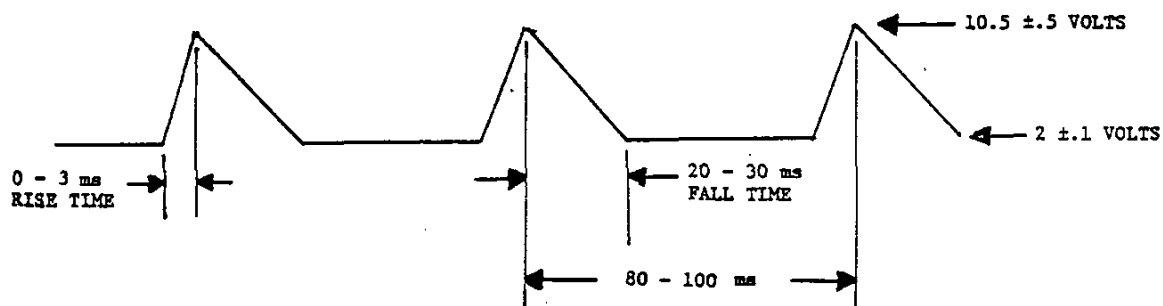
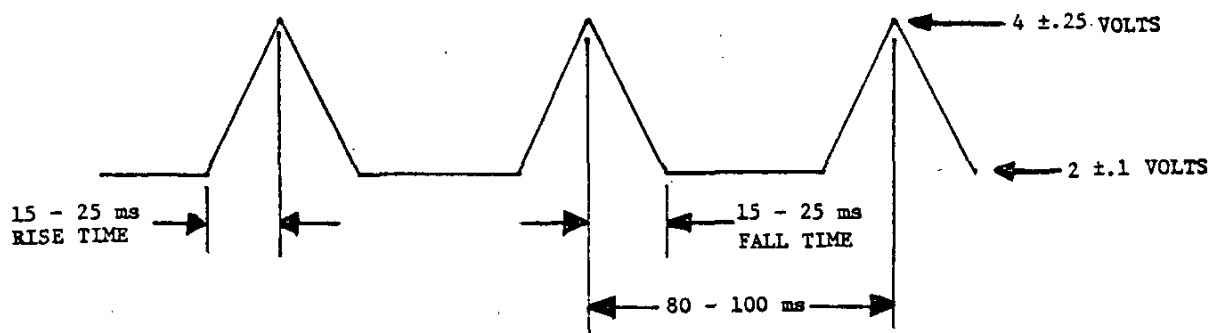
4.5 Test methods and procedures.

4.5.1 Electrical. The test methods and procedures for conducting the tests for the electrical performance characteristics (see 3.4.1) shall be prepared by the contractor for review and approval by the procuring activity. The contractor shall ensure these test methods and procedures meet all the requirements of 3.4.1. The right is reserved by the procuring activity to modify the tests or require any additional tests deemed necessary to ensure compliance with the requirements of this specification (see 6.2.1).

4.5.1.1 Fault detector circuit. The latch up (see 6.4.1) and load fault (see 6.4.2) signals shown in Figure 2 and Figure 3 shall be separately injected at Pin 13 of connector P11, to simulate latch up and load fault conditions. Each of these simulation signals shall cause the fault detector circuit to provide a ground to Pins 14 and 20 at connector P11 at one-half second on, one-half second off rates.

4.5.2 Environmental. The contractor shall prepare test procedures for conducting the environmental tests specified herein. The right is reserved by the procuring activity to modify the tests or require any additional tests deemed necessary to ensure compliance with the requirements of this specification (see 6.2.1).

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FIGURE 2. Latch up simulation signal.FIGURE 3. Load fault simulation signal.

4.6 Test data. The contractor shall prepare a daily record of the performance of the pod, making particular note of any deficiencies or failures. In the event of part failures, the defective part shall be replaced and the operation resumed for the balance of the test period. This record shall indicate the following:

- a. Part number.
- b. Drawing number and reference symbol number.
- c. Part function.
- d. Name of manufacturer.
- e. Nature of failure and proposed corrective action.
- f. The number of hours which the part operated prior to failure.

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4.7 Test failures. Should a failure occur during inspections or tests, the following action shall be taken:

- a. The Government inspector shall be notified immediately.
- b. Determine the cause of failure.
- c. Determine if the failure is an isolated case of design defect.
- d. Prepare a failure report with proposed corrective action for review by the procuring activity.

4.8 First article inspection. Unless otherwise specified in the contract or purchase order (see 6.2.1), the pod shall be subjected to a first article inspection. First article inspections shall be performed on one pod with associated equipment installed (see 3.1.1). The contractor shall prepare test reports for review by the procuring activity. The procuring activity shall be advised when tests are to be conducted so the procuring activity may designate a representative to witness the tests when so desired (see 6.2.1).

4.8.1 Electrical performance tests. The electrical performance tests shall be performed on the pod with associated equipment installed (see 3.1.1), using the test methods and procedures approved by the procuring activity.

4.8.2 Environmental tests. The environmental tests shall be performed on the pod using the test procedures approved by the procuring activity.

4.8.2.1 Random vibration. The pod with the associated equipment installed (see 3.1.1), shall be exposed to the random vibration test in accordance with MIL-STD-810, Procedure I, Method 516.2-IV, Figure 516.2-2. During the test, the pod shall be suspended by an AERO-7A Bomb Ejector Rack using a lug spacing of 30 inches. In turn, the AERO-7A rack shall be suspended by elastic cords. The input control sensing device shall be rigidly attached to the pod strong back midway between the lugs. Each of the tests shall be for one hour duration with the vibration having an amplitude of 0.04 gravity<sup>2</sup>/Hertz (g<sup>2</sup>/Hz) over the frequency range of 20 to 2000 Hz.

4.8.2.2 Shock (non-operating). The pod with the associated equipment installed (see 3.1.1), shall be exposed to the shock test in accordance with MIL-STD-810, Procedure I, Method 516.2, Figure 516.2-2. The pod shall be suspended from the AERO-7A rack, and subjected to the shock levels listed below. Ten half sine wave shocks per axis shall be applied for a total of 50 shocks.

- a. Vertical, up direction only 25g peak for 20 ms (tensile stress imparted to the lugs).
- b. Transverse, both directions, 25g peak for 20 ms.
- c. Longitudinal, both directions, 6g peak for 20 ms.

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4.8.2.3 Temperature-altitude. The pod with the associated equipment installed (see 3.1.1), shall be exposed to the temperature-altitude test in accordance with MIL-STD-810, Method 504.1, Procedure 1, except the temperature shall be -25°C to +85°C and the altitude shall be 60,000 feet mean sea level.

4.8.3 Examination of pod. The pod shall be examined to ensure that the material and workmanship requirements have been met.

4.9 Quality conformance inspection. Unless otherwise specified in the contract (see 6.2.1), each pod shall be subjected to the following inspections:

- a. Operational
- b. Visual.

4.9.1 Operational. Each pod shall be subjected to the electrical performance tests, using the applicable test methods and procedures approved by the procuring activity (see 4.5.1). The contractor shall prepare test data for review by the procuring activity.

4.9.2 Visual. Each pod shall be visually inspected for conformance to the drawings listed on DL 1236AS240, including markings and the workmanship requirements specified herein.

## 5. PACKAGING

5.1 Preservation-packaging. Unless otherwise specified in the contract (see 6.2.1), the preservation-packaging of the pod shall be level C in accordance with MIL-STD-794.

5.2 Packing. Unless otherwise specified in the contract (see 6.2.1) the packing of the pod shall be level C in accordance with MIL-STD-794.

5.3 Markings. Marking of exterior shipping containers shall be in accordance with MIL-STD-129.

## 6. NOTES

6.1 Intended use. The pod is used with the AN/AST-4(V) Radar Simulating Emission Set to emit radar signals during Electronic Warfare Support training exercises.

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6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. First article requirements (see 3.2).
- c. Type of Bomb Ejector Rack furnished to contractor if other than AERO-7A (see 3.5).
- d. Responsibility for inspection (see 4.1).
- e. Option to modify tests or require any additional tests (see 4.5.1 and 4.5.2).
- f. Designated representative for first article tests (see 4.8).
- g. Quality conformance inspections, if different than specified (see 4.9).
- h. Option to waive first article inspection (see 4.8).
- i. Level of preservation-packaging, if different than specified (see 5.1).
- j. Level of packing if different than specified (see 5.2).

6.2.2 Data requirements. When this specification is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL), the data requirements identified below shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved CDRL incorporated into the contract. When the provisions of DAR-7-104.9(n) (2) are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this specification is cited in the following paragraphs:

Paragraph No.	Data requirement title	Applicable DID No.	Option
3.3.1	Approval for Non-standard Parts	DI-E-7028	-----
3.4.3.4	Engineering Change Proposal	DI-E-2037	-----
4.4	Equipment Calibration Procedures	DI-R-7065	-----
4.5.1, 4.5.2	Inspection Test Methods	UDI-T-21375A	-----
4.5.1, 4.5.2	Test Procedures	UDI-T-22710B	-----
4.6, 4.9.1	Test Reports	DI-T-2072	-----
4.7d	Failure Analysis and Corrective Action Report	DI-R-5299C	-----
4.8	Report, First Article Test	UDI-T-23790	-----

(Copies of data item descriptions required by the contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

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6.3 First article. When a first article is required, it shall be tested and approved under the appropriate provisions of 7-104.55 of the Defense Acquisition Regulation. The first article should be a preproduction sample. The first article should consist of one unit. The contracting officer should include specific instructions in all procurement instruments, regarding arrangements for examinations, test and approval of the first article.

6.4 Definitions.

6.4.1 Latch up. The latch up is the wave form having a one to four milliseconds (ms) rise time on the leading edge, from an approximate positive 2 Vdc quiescent to 10 Vdc to 11 Vdc peak. The trailing edge is exponential back to the 2 Vdc quiescent, requiring 20 ms to reach the 2 Vdc level. This occurs every 80 ms to 100 ms as shown in Figure 4.

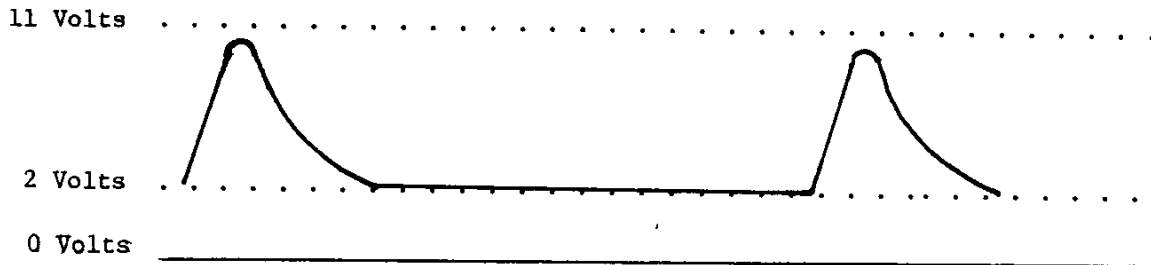


FIGURE 4. Latch up.

6.4.2 Load fault. The wave form requiring 30 to 40 ms to go from an approximate positive 2 Vdc quiescent to 4 Vdc and return to 2 Vdc. This occurs every 80 ms to 100 ms as shown in Figure 5.

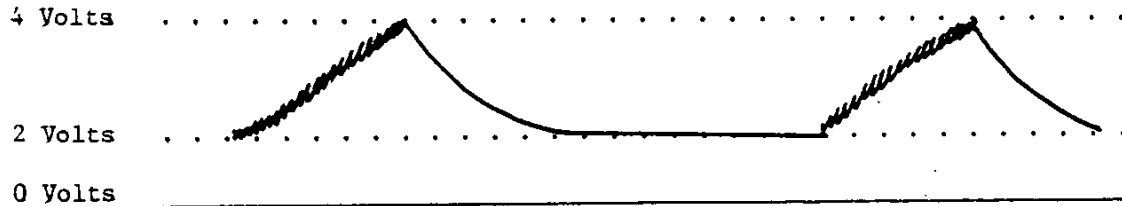


FIGURE 5. Load fault.

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6.5 Government-loaned property. The contracting officer should arrange to loan the property listed in 3.5.

Preparing activity:  
Navy - AS

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**DOCUMENT IDENTIFIER (Number) AND TITLE**

MIL-P-85484 (AS) POD-TRAY SUBASSEMBLY, SIMULATING SET

**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.

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EDITION OF 1 JAN 72 WILL BE USED UNTIL EXHAUSTED.