

ISSUANCE TRANSMITTAL  
SHEET

N A S A  
National Aeronautics and  
Space Administration

George C. Marshall Space Flight Center  
Marshall Space Flight Center, Alabama 35812

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Issuance Number: MMI 5320.1E

Date: March 15, 1993

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Material Transmitted:

1. Marshall Management Instruction: MMI 5320.1E, "Implementation of the NASA Standard Parts Program"
2. This Instruction has been revised to:
  - a. Eliminate references to/and requirements for the use of the different grades of electronic parts.
  - b. Add reference to NHB 5300.4(1F) in the responsibility for program/project managers.
  - c. Expand responsibility of program/project managers for part traceability and installed location.
  - d. Reflect the new name of the Astrionics Laboratory in place of the former Information and Electronic Systems Laboratory.

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Filing Instructions:

Remove MMI 5320.1D and Change 1 thereto and replace with the attached MMI 5320.1E.

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Originating Organization: EA01      Effective Date: March 15, 1993      MMI: 5320.1E

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Subject: IMPLEMENTATION OF THE NASA STANDARD PARTS PROGRAM

1. PURPOSE

To establish the Marshall Space Flight Center (MSFC) policy, responsibilities, and procedures for the selection of electrical, electronic, and electromechanical (EEE) parts and for the implementation of the NASA Standard Parts Program. The NASA Standard Parts Program is designed to maximize the standardization, performance, reliability, and quality of EEE parts used in NASA programs and projects, consistent with NMI 5320.5 and NMI 5320.6.

2. APPLICABILITY

This Instruction applies to all space flight equipment and all space flight support equipment built for MSFC, either in-house or under contract. These requirements are not mandatory for programs or projects ongoing prior to the effective date of this MMI.

3. AUTHORITY (Only applicable parts of the most recent edition apply.)

a. NHB 5300.4(1F), "Electrical, Electronic, and Electromechanical (EEE) Parts Management and Control Requirements for NASA Space Flight Programs"

b. NMI 5320.5, "Basic Policy for NASA Space Flight Program Electrical, Electronic, and Electromechanical (EEE) Parts"

c. NMI 5320.6, "Implementation of NASA Standard Electrical, Electronic, and Electromechanical (EEE) Parts Program"

\* 4. POLICY

It is the policy of MSFC that all applicable hardware shall utilize EEE parts in accordance with the basic requirements of NHB 5300.4(1F), "Electrical, Electronic, and Electromechanical (EEE) Parts Management and Control Requirements for NASA Space Flight Programs," and that each space project shall have a parts program that is tailored to mission objectives, reliability goals, and schedule and cost constraints. Additionally, each project shall make maximum use of the NASA Standard Parts Program and the NASA Standard Parts List (MIL-STD-975) in accordance with NMI 5320.5 and NMI 5320.6. The Program/Project Manager shall serve as the central approval authority for all nonstandard EEE parts usage on that program/project over which he has cognizance.

\* Added by this revision



5. DEFINITIONS (see Attachment A)

\* 6. RESPONSIBILITIES (See detailed responsibilities in Attachment B.)

The following individuals/organizations have responsibilities in implementing this Instruction:

\* a. Program/Project managers

b. Deputy Director for Space Transportation Systems, and Deputy Director for Space Systems, Science and Engineering Directorate

\* c. Astrionics Laboratory

d. Other MSFC laboratories and offices

e. Initiating organizations

7. CANCELLATION

MMI 5320.1D dated June 1, 1989 and Ch. 1 dated December 26, 1991

(orig s/by)

T. J. Lee  
Director

Attachment:  
Responsibilities

Distribution:  
SDL-2

\* Changed/added by this revision.

\* DEFINITIONS

1. NASA Standard Parts: Those within the scope of NMI 5320.6 which are listed in the NASA Standard Parts List, MIL-STD-975 (NASA).
2. NASA Nonstandard Parts: Those within the scope of NMI 5320.6 which are not listed in the NASA Standard Parts List, MIL-STD-975 (NASA).
3. EEE Parts: Electrical, electronic, and electromechanical parts as defined by MIL-STD-975, "NASA Standard Electrical, Electronic, and Electromechanical (EEE) Parts List."

\* Changed by this revision

## RESPONSIBILITIES

### 1. Program/Project Managers will:

a. Give first preference to NASA standard parts when establishing program and project technical requirements for flight hardware and mission-essential ground support equipment consistent with mission objectives, reliability goals, and cost constraints.

\* b. Impose the MSFC parts policy and the NASA parts policy, and NASA parts management and control requirements as contained in NHB 5300.4(1F), as project contractual requirements.

c. After review by the Science and Engineering Directorate, act as the MSFC approval authority for all nonstandard parts.

\* d. Develop and maintain a project parts list, including an "as built" parts list, consisting of procurement specifications, detail part number, manufacturer, traceability (lot date code, serial number, etc.), quantity used, and installed location.

e. To the extent practical, establish procedures for consolidated procurement of standard and nonstandard parts in order to fully realize cost and schedule benefits.

f. Assure that contractor requests for use of nonstandard parts are properly submitted through approval channels.

2. Deputy Director for Space Transportation Systems, and Deputy Director for Space Systems, Science and Engineering Directorate, will serve as the interface with program/project managers for proper review within the Directorate for nonstandard parts usage and also to provide technical recommendations for nonstandard parts usage.

### \* 3. Astrionics Laboratory will:

a. Provide parts specialists to assist project managers in approving the selection, application, and qualification of EEE parts.

b. Assist project managers in developing parts program requirements for the project and provide technical consultation in developing and maintaining the project approved parts list.

c. Perform technical review and provide recommendations for all nonstandard parts approval requests.

\* Changed by this revision.

- d. Provide identification of nonstandard parts used by the project and recommendations for new standard parts to the NASA Parts Project Office.
  - e. Review and approve specifications, test procedures, and other documentation for nonstandard parts.
  - f. Provide technical consultation to the project managers in regard to the additional screening, testing, derating criteria, or analysis required by project applications or environments which are beyond the requirements specified for NASA standard parts and for nonstandard parts.
  - g. Perform or review parts failure analysis and provide recommendations for corrective action. Disseminate results to the NASA Parts Project Office, other Centers, and the Government Industry Data Exchange Program. Investigate ALERT's and provide technical recommendations concerning impact and corrective action.
  - h. In coordination with the appropriate program/project manager and contracting officer, perform audits and surveys of project contractors to assess implementation and adequacy of the parts program to the project requirements.
  - i. Perform technical surveys and monitor parts suppliers' performance, as appropriate, for standard and nonstandard parts.
  - j. Act as the focal point for the MSFC Electrical, Electronic, and Electromechanical (EEE) Parts Program.
4. Other MSFC laboratories and offices will provide technical assistance, as required, for successful implementation of the MSFC Parts Policy and the NASA Standard Parts Program.
- \* 5. Initiating organizations will submit a Nonstandard Part Approval Request, Form EB-01 (OT-2/24/88) or equivalent, to the Program/Project Office for use of nonstandard parts. The Program/Project Office will then submit the request to the Science and Engineering Directorate for concurrence prior to implementation. Contractor requests will be submitted to the appropriate Contracting Officer.

\* Changed by this revision.

