

MPD 8800.1

BASELINE

EFFECTIVE DATE: November 30, 1999

EXPIRATION DATE: November 30, 2004

MARSHALL POLICY DIRECTIVE

AD01

MSFC ENERGY MANAGEMENT PROGRAM

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DOCUMENT HISTORY LOG

Status (Baseline/ Revision/ Canceled)	Document Revision	Effective Date	Description
Baseline		11/30/99	

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1. PURPOSE

This directive states Marshall Space Flight Center (MSFC) energy conservation policy and establishes organizational responsibilities for managing and reducing MSFC energy consumption and costs.

2. APPLICABILITY

This Marshall Policy Directive (MPD) is applicable to all MSFC personnel and on-site contractors.

3. AUTHORITY

NPD 8500.1, "NASA Environmental Management"

4. APPLICABLE DOCUMENTS

- a. Executive Order (E.O.) 13123, "Greening the Government Through Efficient Energy Management"
- b. Code of Federal Regulation, 10 CFR, Parts 435 and 436
- c. NPG 8800.17, "Energy Metrics for NASA Facilities"

5. REFERENCES

None

6. DEFINITIONS

- a. Energy Metric. A mathematical equation used to track energy use against productive output, facility utilization, or physical facility characteristics to measure progress toward energy-efficiency goals.
- b. Energy Savings Performance Contracting (ESPC). A method whereby a contractor incurs the cost of implementing energy savings measures, including performing the building energy audit to identify approximate energy savings measured on an appropriate work project to achieve the energy savings, designing the project, financing the project, acquiring and installing necessary equipment, training personnel, and operating and maintaining the equipment. The contractor undertakes this investment in exchange for a share of any energy cost savings directly resulting from implementing such measures during the term of the contract.

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7. POLICY

MSFC's policy is to ensure that new facilities are designed and constructed to meet or exceed the energy performance standards set forth in 10 CFR Part 435 and to reduce energy and water consumption and cost whenever possible in all facility operations.

8. RESPONSIBILITIES

a. The Manager, Facilities Engineering Department (FED), Center Operations Directorate, will assign a key individual for MSFC to serve as the focal point (Energy Manager) for all energy matters and to manage and monitor energy consumption and conservation.

b. The Design and Construction Group, FED, will:

(1) Perform energy surveys and identify energy conservation measures that are life-cycle cost effective (in accordance with 10 CFR, Part 436).

(2) Survey facilities every 3 years to determine where potential for dual fuel capability exists.

(3) Assure all designs give full consideration to energy efficiency in compliance with 10 CFR, Part 435. Contract file shall contain a statement certifying this has been done.

c. The Energy Manager will:

(1) Measure the Center's progress toward achieving the energy-efficiency goals for nonmission-variable, mission-variable, and industrial facilities using the energy metrics described in NPG 8800.17.

(2) Provide recommendations to the Director, Environmental Management Division, Code JE, NASA Headquarters, on additions or deletions to the list of exempted mission-variable facilities.

(3) Prepare and annually update MSFC's Energy Efficiency and Water Conservation Plan listing specific energy conservation actions, projects, and initiatives (with their expected impacts) planned for future years which make the best practicable effort towards achieving the Center's energy conservation goals. Additionally, the Energy Manager will update the Annual Energy Report in the NASA Environmental Tracking System (NETS) in order

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to keep Code JE apprised of the Center's progress toward the reduction goals.

(4) Request funds and implement energy conservation measures which are the most life-cycle cost effective (in accordance with 10 CFR, Part 436).

(5) Prepare and enter detailed Quarterly Energy Consumption Data for MSFC and off-site program facilities into the Headquarters Program within 90 days of the close of each fiscal quarter.

d. The Procurement Office will provide support to FED for entering into ESPC's. The Procurement Office will incorporate shared energy savings clauses in facilities and other support contracts in accordance with guidance provided by the NASA Associate Administrator for Procurement.

e. The Customer & Employee Relations Directorate will publicize through the *Marshall Star, Daily Planet, e-mail, etc.*, energy conservation outreach programs developed by FED.

f. Each Center Directorate and Staff Office will appoint a key person to monitor compliance with the Utilities and Energy Conservation Program and take appropriate action to assure that equipment and lights are turned off and building temperatures are maintained in accordance with specific guidelines, where applicable, as enforced by the Manager, FED, or his/her representative, the MSFC Energy Manager.

g. Each Center employee shall be responsible for conserving energy in his/her respective area. When offices and other assigned spaces are not occupied, the employee shall turn off lights, desk lamps, radios, fans, computers (non-servers), printers (non-network), computer peripherals, copiers, and other nonessential, switchable, energy-using equipment, and unplug space heaters.

9. RECORDS

- a. MSFC Energy Efficiency and Water Conservation Plan
- b. MSFC Annual Energy Report

10. MEASUREMENT

a. Nonmission-Variable Building Energy Metric. Progress toward the energy-reduction goal for nonmission-variable buildings will

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be calculated using British Thermal Units per gross square foot per year (BTU/GSF/Yr.) as the metric.

b. Mission-Variable Facility Energy Metrics. Progress toward the energy-efficiency goal for mission-variable facilities will be calculated using the metrics for specific facility types described in subparagraphs 2.2.1 through 2.2.7 of NPG 8800.17.

11. CANCELLATION

MMI 8832.1 dated July 24, 1995

Original Signed by

A. G. Stephenson
Director