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NASA Procedural Requirements

COMPLIANCE IS MANDATORY

NPR 7120.10

Effective Date: April 22, 2011

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2016

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Request Notification of Change (NASA Only)

Subject: Technical Standards for NASA Programs and Projects

Responsible Office: Office of the Chief Engineer

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Preface

P.1 Purpose

a. This NASA Procedural Requirements (NPR) supports the implementation of the technical standards aspects of the parent NASA Policy Directive (NPD) 7120.4, NASA Engineering and Program/Project Management Policy. This NPR establishes responsibilities, requirements, and processes for:

(1) Selecting and using technical standards as program/project requirements, encouraging commonality in use across NASA programs and projects, and mandating use of specific technical standards when warranted.

(2) Developing technical standards, complying with Federal requirements for participating in the development of voluntary consensus standards and designating NASA-endorsed technical standards.

P.2 Applicability

a. This NPR is applicable to NASA Headquarters and NASA Centers, including Component Facilities and Technical and Service Support Centers. This language applies to the Jet Propulsion Laboratory (JPL), a Federally Funded Research and Development Center (FFRDC), other contractors, grant recipients, or parties to agreements only to the extent specified or referenced in the appropriate contracts, grants, or agreements.

b. Technical standards and this NPR are also applicable to programs and projects managed under NPR 7120.5, NASA Space Flight Program and Project Management Requirements; NPR 7120.7, NASA Information Technology and Institutional Infrastructure Program and Project Management Requirements; and NPR 7120.8, NASA Research and Technology Program and Project Management Requirements.

c. For the purposes of this NPR, the following apply:

(1) The term "standard or technical standard" as used in this document is defined in Appendix A and refers to various means of standardization used to achieve and maintain the desired levels of compatibility, interchangeability, or commonality.

(2) The term "NASA technical standards" refers to technical standards, specifications, and handbooks developed and approved by NASA Headquarters offices, for Agencywide use, assigned a prefix of "NASA-STD-," "NASA-SPEC-," or "NASA-HDBK-," respectively, to the unique document number.

d. All mandatory actions (i.e., requirements) are denoted by statements containing the term "shall." The terms "may" or "can" denote discretionary privilege or permission, "should" denotes a good practice and is recommended but not required, "will" denotes expected outcome, and "are/is" denotes descriptive material.

e. This NPR does not apply to development of Center-specific and/or program/project-specific technical standards.

f. All document citations in this NPR are assumed to be the latest version unless otherwise noted.

P.3 Authorities

- a. Functions of Secretary and Institute, 15 U.S.C. § 272(b), as amended.
- b. OMB Circular No. A-119, Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities.
- c. NPD 1000.0, NASA Governance and Strategic Management Handbook.
- d. NPD 1000.3, The NASA Organization.
- e. NPD 1400.1, Documentation and Promulgation of Internal NASA Requirements.
- f. NPD 7120.4, NASA Engineering and Program/Project Management Policy.

P.4 Applicable Documents and Forms

- a. NPR 1441.1, NASA Records Retention Schedules.
- b. NPR 7120.5, NASA Space Flight Program and Project Management Requirements.
- c. NPR 7120.7, NASA Information Technology and Institutional Infrastructure Program and Project Management Requirements.
- d. NPR 7120.8, NASA Research and Technology Program and Project Management Requirements.
- e. NPR 8715.3, NASA General Safety Program Requirements.
- f. NPR 8900.1, Health and Medical Requirements for Human Space Exploration.
- g. NASA-STD-8709.20, Management of Safety and Mission Assurance Technical Authority (SMA TA) Requirements.

P.5 Measurement/Verification

Compliance with this NPR is verified by submission to responsible NASA officials of products identified in this document and by internal and external controls. Internal controls include audit, review, and assessment processes defined in NPD 1200.1, NASA Internal Control. External controls may include external audits and reporting requirements.

P.6 Cancellation

None.

REVALIDATED WITH CHANGE 1 8/30/12, ORIGINAL SIGNED BY:

/S/

Michael G. Ryschkewitsch
NASA Chief Engineer

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