

MPD 1280.1

REVISION Y-1

EFFECTIVE DATE: September 24, 2019

EXPIRATION DATE: September 24, 2024

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# MARSHALL POLICY DIRECTIVE

DA01

## MSFC QUALITY MANAGEMENT SYSTEM POLICY *With Change 1 (9/30/20)*

**COMPLIANCE IS MANDATORY**

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<b>Marshall Policy Directive DA01</b>		
<b>MSFC Quality Management System Policy</b>	<b>MPD 1280.1</b>	<b>Revision: Y-1</b>
	<b>Date: September 24, 2019</b>	<b>Page 2 of 7</b>

## DOCUMENT HISTORY LOG

Status (Baseline/ Revision/ Change/ Revalidation/ Canceled)	Document Revision/ Change	Effective Date	Description
Baseline		5/14/99	Document converted from MSFC-MQM to a Directive. Previous history retained in system as part of canceled or superseded ISO Document files. Revised the description of the Quality System documentation in 7.2 and 7.5 to reflect the conversion to Directives. Cancelled MMI 8040.15 to address RCAR #108. Added clarification of "grandfathering" in 2. Added definitions for "data" and "data management" to 6.
Revision	A	8/16/99	Complete revision to expand the scope to include all products and services provided by MSFC. Also updated to reflect re-structuring of the Center. Para. 4, added NPD 8070.6; para. 6, added definition of contractor, deleted "subcontractor," and revised definition of "flight hardware"; revised para. 7.1.2.1 and 7.1.4.1; changed "subcontractor" to "contractor" throughout. Added text to address safety in para. 2 and 7.1. Para. 7.1.2.1(a)(3) updated to change signature authority for MWI from "Directorate level or below" to "Directorate level or higher."
Revision	B	9/16/99	Extended date for cancellation of MM's and MMI's in para. 7.1.2.1 (4) and 7.1.2.1 (5). Added a reference to MPD 1150.1 to para. 7.1.1.3 and section 4.
Revision	C	12/6/99	Added MPG 8823.1 and MPG 8060.2 to section 4 and para. 7.8.1.1, and revised para. 7.8.1.2 and 7.1.8.9 to address all design control activities. Also, changed MM 1107.1 to MPG 1100.1 and MMI 1420.1 to MPG 1420.1 throughout document. Updated title of MPG 8060.1. Added definition 6.f for GSE. Revised 7.1.2.1(a) (4) and 7.1.2.1(a) (5) to delete dates for cancellation of MMs and MMIs. Revised description of OIs in 7.1.2.1(b).
Revision	D	3/6/00	Revised to replace references to MPG 1441.1 with MPG 1440.2.
Revision	E	6/12/00	Revised 2.1 to delete plans for expanded scope of registration; Revised 7.1.1.2.a, 7.1.1.2.c, 7.1.1.3, 7.1.2.1, 7.1.8, and 10 to clarify applicability of the scope of ISO registration vs. the MMS; Changed "software" reference in para. 7.1.5; added references to MPG 8220.1, "Conduct of Research and Technology Activities," in 4.ff. and 7.8.1.1; Clarified use of "shall" and "will" in 7.1.4.1; changed "I" to "The Center's subscription service for standards," in 7.1.4.1; Revised 7.1.9 to exclude servicing from the scope of registration. Updated Figure 2, MSFC Organization Chart.
Revision	F	9/12/00	Corrected the title of MPG 1410.1 in 7.1.4.1; Changed reference for software process control in 7.1.5; added reference to NASA Preferred Technical Standards in 7.1.4.1.
Revision	G	7/25/01	Revised sections throughout to implement the ISO 9001:2000 revision. Deleted first paragraph of 2.1. Revised Figure 1 to reflect the new 2 <sup>nd</sup> Generation Reusable Launch Vehicle Program Office. Revised definition 6.b. to clarify that customers may be internal or external. Added definitions for "quality objective" and "organization" in section 6. Expanded term defined in 6.e. Revised definition of "supplier" in 6.k. Deleted MMs and MMIs from 7.1.2.1(a). Revised 7.1.4.1 to add the new Agencywide Full-Text Technical Standards System. Paragraph 7.5.1.2, added performance, cost and schedule to basis for selection and evaluation of contractors. Paragraph 7.8.1.2 and 7.8.1.4, changed task agreements to CWCs and added risk management. Added risk management planning to 7.7.1. Made editorial corrections.
Revision	H	11/2/01	Revised the statement of scope in paragraph 2 and the quality policy statement in 7.1.1.2 in response to observations raised during a registrar

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<b>Marshall Policy Directive DA01</b>		
<b>MSFC Quality Management System Policy</b>	<b>MPD 1280.1</b>	<b>Revision: Y-1</b>
	<b>Date: September 24, 2019</b>	<b>Page 3 of 7</b>

			audit. Updated Figure 2 in 7.1.2.2 to show the interrelationship of the Center processes. Made other minor editorial changes.
Revision	I	1/24/02	Revised 7.1.1.3 quality system objectives to ensure metrics exist and are in alignment with the MSFC values. (Changes address a minor nonconformance identified by the MSFC ISO registrar.) Added a reference to the MSFC values in 7.1.1.2. Revised 7.1.1.3, 7.8.1.2, and 7.1.4.1.
Revision	J	1/27/03	Updated URL in footers, 4.a, and 7.1.2.1; updated mission descriptions in 1; corrected title of MPG 8823.1 in 4.a.(40) and 7.8.1.1; deleted reference to obsolete versions of ISO documents in 5; revised definition 6.e; corrected reference paragraph in 7.1.8; updated filing subject titles in all sections; deleted “within our defined scope” from 7.7.1; corrected number in OMB Circular A-119 in 7.8.1.2; minor editorial corrections in 7.1.1.4.a., 7.1.1.4.c, Figure 2, 7.1.2.1, 7.1.4.1, 7.1.4.2, 7.2.2, 7.4.1, 7.6.1.1, 7.6.1.2, 7.6.1.3, 7.6.1.6, and 7.8.1.1. Revised 7.8.1.5, 7.8.1.7 and 7.8.1.8 to clarify design verification and validation in response to an NQA NCR.
Revision	K	5/9/03	Revision to comply with AS9100 requirements and other minor updates. Changed “quality records” to “records” throughout text; added AS9100 references throughout; updated the scope in section 2; changed NPD 8730.3 to NPD 1280.1 throughout; added MWI 5330.1 and MWI 8050.1 to applicable documents; revised 6.e. definition; added definition for “key characteristics”; revised 7.1.1.4.c, 7.1.3.3, 7.1.4.3, 7.1.5.2.a, 7.1.5.4.a., 7.1.5.5, 7.1.6.2, 7.1.7, 7.4.1, 7.5.1.1, 7.5.1.3.b, 7.8.1.1, 7.8.1.5, 7.8.1.6, and 7.8.3 to add/clarify AS9100 requirements; added 7.1.5.2.g-j., 7.5.1.3.d-f., and new paragraphs under 7.5.1.4, 7.6.1.5, 7.8.3 to add/clarify AS9100 requirements; revised measurements in section 10; added acronyms to definitions.
Revision	L	11/21/2003	Added MWI 7120.6, “Program/Project Risk Management” to 7.1.6.3 and 4.a. and renumbered items in that section. Added Centerwide Plans to 7.1.2.1.a. Revised 7.8.3 to clarify procedures for inspections and tests. Revised 1. Purpose to delete the term, “Center of Excellence.” Changed “reference” to “referenced” in section 9.
Revision	M	5/26/2004	Changed “NPG” to “NPR” throughout document; Updated the organization chart in Figure 1; Changed S&MA “Office” to “Directorate” in 7.8.6.2; Updated the Program Formulation series in 7.7 and the Financial Management series in 7.9.
Revision	N	9/17/2004	Revised to bring document in compliance with the HQ Rules Review Action (CAITS: 04-DA01-0387). Updated the MSFC mission areas in 1; Updated the MSFC Quality Policy in 7.1.1.2 to reflect the NASA Values; Updated 7.1.1.3 on quality objectives; updated the organization chart in figure 1 and moved from 7.1.1.5 to 7.1.1.4; added Marshall Guidance Manuals (MGMs) in 7.1.2.1(b).
Revision	O	12/22/2005	Reorganized applicable documents in section 4; Deleted MPR 8220.1 and replaced with NPR 7120.5; Deleted MPR 8040.3 and updated title of MPR 8040.2; Updated title of MPR 1050.1; Updated title of MWI 5330.1; Changed MPR 1280.9 to MGM 1280.1, “Guidance for Continual Improvement”; Updated the Quality Policy to reflect the new NASA Values; Replaced NPR 1000.2 with NPD 1000.0 and revised section 1.0; Revised 7.1.1.5 to change MQC to IMSB; Updated 7.1.1.3 to reflect the scorecard and delete MPR 1130.1; Updated the org. chart in Figure 1; added reference to the Environmental Management System in section 2.0; changed 7.1.4.2 from “issue” to “issuance”; added new preface section; added MPR 2810.1; editorial corrections, including spelling out acronyms. Added explanation on shelf life to 7.6.1.5.

<b>Marshall Policy Directive DA01</b>		
<b>MSFC Quality Management System Policy</b>	<b>MPD 1280.1</b>	<b>Revision: Y-1</b>
	<b>Date: September 24, 2019</b>	<b>Page 4 of 7</b>

Revision	P	2/7/2006	Minor changes to Preface. Editorial corrections to four document titles in the Applicable Document list and where used in the text. Also deleted an applicable document that isn't used. (NPD 1000.0 deleted "NASA" from title; MPR 8500.2 added "Manual" to end of title; MWI 7120.6 added "Continuous" to title; OMB Circular A-119 added "Consensus" and "and in Conformity Assessment Activities"; Deleted MIL-STD-961 – not used in document. Revised paragraph numbering throughout for consistency. Corrected EEO title in Figure 1.
Revision	Q	7/18/2006	Administrative change of definition in 6.a.(19) to be silent on measurement of quality objectives so as not to be confused with requirement in 7.1.1.3.a.
Revision	R	2/26/2007	Revised title of document to clarify its purpose; added definitions for EMS, QMS, MMS, and OH&S management systems; changed "MMS" to "QMS" throughout the document; revised 2.a; added 2.e; added NPD 1440.6; added MPR 8715.1; updated 6.a.(6); added MIDs to 6.a.(13) and 7.1.2.1.c; added 6.a.(19); revised 7.1.1.4.a.(2); revised 7.5.1.1b(3) and added reference to NPD 8730.5 to determine appropriate quality systems; deleted MPR 1050.1; revised 7.1.1.4c management representative responsibilities and governance; revised section 7.1.1.5 to reflect management review as part of the governance process and added MC-08, MC-25, and MPD 1000.1; revised 7.1.2.1c records and centerwide plans for clarification; added NPR 1441.1; deleted MPR 7100.1 and added NPD 1050.1 in 7.1.3.1; revised 7.5.1.2. Other minor editorial changes throughout.
Revision	S	3/4/2008	Revised 2. Applicability statement to reflect transition of MAF from GOCO to GOGO. Added exception to scope of external registrations in paragraph 2.2, and revised section 10.
Revision	T	4/01/2009	Updated titles of applicable and reference documents; separated requirements into uniquely numbered paragraphs; updated the preface; added reference to NPD 1000.3; revised 7.1.1.3 on quality objectives; updated the MSFC Organization Chart in Figure 1; made minor editorial revisions and changes for clarity and alignment to the ISO 9001 2008 revision; and, changed "multi-program/project documents" to "MSFC technical standards;" added Appendix A for Acronyms; added NPD 8730.5 to 1.1; moved 2.1.a-e and 2.2 to section 1; cleaned up use of acronyms; added "services" to "product" references; re-ordered Applicable Documents; replaced NPR 7120.5C with NPR 7120.7 and deleted revision level from NPR 7120.5D; revised 7.1.2.1.c(2) and (7); added text to section 8; revised 7.4.1.b, 7.1.5.1.a, 7.1.5.2.b(7), 7.8.3.c(1) and (2), 1.1.b, 1.1.c(1) for clarity.
Revision	U	6/10/2010	Minor updates to reflect other document changes and minor editorial corrections. Updated the title of NPD 1280.1 throughout; deleted MPR 8060.1 throughout; added MPR 7123.1, MPR 7123.2, and MWI 7123.1 to applicable documents list and section 7.8; changed "IMSB" to "IMSC" throughout; section 10 changed "2.2" to "1.2;" changed Appendix to Attachment A; moved References to Attachment B; updated applicability statement; updated title for 91XX in 7.9; deleted acronym "MCP" to eliminate confusion as to this being a designator for a document type in numbering documents; revised 7.5.1.1.e(1) to include NFS and MSFC and provisions; minor clarifications including adding TRL and hazardous materials; added tailoring to 7.2.1.c; and complete rewrite of 7.1.7 for clarity.

<b>Marshall Policy Directive DA01</b>		
<b>MSFC Quality Management System Policy</b>	<b>MPD 1280.1</b>	<b>Revision: Y-1</b>
	<b>Date: September 24, 2019</b>	<b>Page 5 of 7</b>

Revision	V	3/02/2011	Corrected/updated document titles and paragraph numbering and references. Editorial changes. Significant rewrite for transition to AS9100 revision C, including addition of project, risk, and configuration management sections. Revisions to multiple paragraphs under 6, 7.1.1, 7.1.2, 7.1.3, 7.1.5, 7.1.6, 7.5.1, 7.6.1.5, 7.7, and 7.8. Revised 7.1.1.4.c to reflect CMC review of customer satisfaction instead of SPC review per DA01 change in practice.
Revision	W	10/18/2011	Changed document title from “Marshall Quality Management System Manual;” major rewrite to include only policy content; remainder of the document moved to a new Directive, MPR 1280.10.
Revision	X	12/23/2015	Updated format to current requirements of MWI 1410.1; inserted text for delegation of authority; added NPD 8730.5 as an authority document; revised and renumbered 1.c. to place as a subparagraph under 1.b. to keep the quality policy statement content in one place; and revised 1.a to agree with the revised scope of QMS registration in MPR 1280.10.
Revision	Y	9/24/2019	Updated section 1.a. to remove the reference to ISO 9001 and AS9100 registration, and replace it with a statement reflecting compliance with those standards. Updated section 5.a(2), to remove reference to MPR 1280.1, and replace it with reference to MPR 1280.10 for management review requirements.
Change	1	9/30/2020	On 9/30/20, at the request of the OPRD, an administrative change was made to update the quality policy to reflect the updated NASA Values (“inclusion”) as documented in NPD 1000.0. (Approved by IMSC on 9/30/2020).

<b>Marshall Policy Directive DA01</b>		
<b>MSFC Quality Management System Policy</b>	<b>MPD 1280.1</b>	<b>Revision: Y-1</b>
	<b>Date: September 24, 2019</b>	<b>Page 6 of 7</b>

## **1. POLICY**

a. This MPD states the policy for establishing the MSFC Quality Management System (QMS) policy and program consistent with NPD 1280.1 and NPD 8730.5. The design, development, production, testing, installation and servicing of MSFC’s flight hardware, flight software, and associated ground support equipment interfacing with flight hardware and flight software are conducted in compliance with AS9100 or ISO 9001 requirements as required by NPD 8730.5.

b. MSFC’s quality policy is to provide quality products and services to our customers and partners through the NASA values: safety, integrity, teamwork, excellence, and inclusion.

(1) To accomplish this, implementation of this policy includes:

(a) Compliance with higher-level Agency and MSFC requirements;

(b) Compliance with customer, regulatory, and statutory requirements;

(c) Continual improvement of the effectiveness of the QMS (see MPR 1280.10); and

(d) Use of the NASA values as the principles to guide our decisions and behaviors. (See NPD 1000.0.)

## **2. APPLICABILITY**

a. This MPD applies to Center personnel, programs, projects, and activities, including contractors and resident agencies to the extent specified in their respective contracts or agreements. (“Contractors,” for purposes of this paragraph, include contractors, grantees, Cooperative Agreement recipients, Space Act Agreement partners, or other agreement parties.)

b. This MPD applies to MAF.

c. This MPD applies the following: 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.

d. This MPD applies the following: all document citations are assumed to be the latest version unless otherwise noted.

## **3. AUTHORITY**

a. NPD 1280.1, NASA Integrated Management System Policy

b. NPD 8730.5, NASA Quality Assurance Program Policy

<b>Marshall Policy Directive DA01</b>		
<b>MSFC Quality Management System Policy</b>	<b>MPD 1280.1</b>	<b>Revision: Y-1</b>
	<b>Date: September 24, 2019</b>	<b>Page 7 of 7</b>

#### **4. APPLICABLE DOCUMENTS AND FORMS**

- a. NPD 1000.0, NASA Governance and Strategic Management Handbook
- b. MPR 1280.10, Marshall Quality Management System

#### **5. RESPONSIBILITIES**

- a. The MSFC Center Director shall:
  - (1) Ensure that the quality policy and QMS are appropriate for MSFC's activities; and
  - (2) Ensure that the quality policy and QMS are reviewed for continuing suitability by the Integrated Management System Council (IMSC) in accordance with MPR 1280.10.

#### **6. DELEGATION OF AUTHORITY**

The Associate Director is the Management Representative for the QMS at MSFC. The Associate Director is authorized to resolve matters pertaining to implementation of the QMS.

#### **7. MEASUREMENT/VERIFICATION**

- a. Routine audits are conducted by MSFC internally, and by the office of Safety and Mission Assurance, NASA Headquarters, in order to verify compliance of the QMS to the AS9100/ISO 9001 standards in accordance with NPD 1280.1 and NPD 8730.5.
- b. Management reviews are conducted by the MSFC Governance Councils, at least annually, in order to assess the continuing suitability, adequacy, and effectiveness of the QMS. (See MPR 1280.10.)

#### **8. CANCELLATION**

MPD 1280.1Y, MSFC Quality Management System Policy, dated September 24, 2019.

*Electronically approved by*

Jody Singer  
Director