NASA Headquarters

Washington, DC 20546

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HQOWI2500 - M018
REVISION B
July 7, 2000

Code M
Space Data Systems
Standards Services
Process

Code M
Space Data Systems Standards Services

Approved and signed by

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Associate Administrator
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DOCUMENT HISTORY LOG

Status (Draft/ Baseline/ Revision/ Canceled)	Document Revision	Effective Date	Description
Baseline		12-16-98	
Revision	A	04-16-1999	Revised as a result6 of DNV Pre-Registration audit. Section 5 modified to add NTAG meeting minutes as a product. Modified Section 6 action steps 1 & 5 for clarification & modified section 7 to agree with Record Retention schedule NPG 1441.1B.
Revision	B	05-05-2000	Clarified the purpose in Section 1 and the process. Numbered decision boxes and updated Section 6 accordingly. Updated record information in Section 7.
Admin Change	B	07-07-2000	Administrative changes to remove version level reference from documents in section 4.0

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1.0 PURPOSE

The purpose of this OWI is to document the process by which the OSF provides oversight to the NASA space communications technical standards program and promulgates NASA contributions to the international arena for standards development through the international Consultative Committee for Space Data Standards (CCSDS) and the International Organization for Standardization (ISO).

The Associate Administrator (AA) for the Office of Space Flight (OSF) is responsible for maintaining this document. The controlled version of the manual is available on the World Wide Web (WWW) via the HQ ISO 9000 Document Library for the ISO 9000 QMS at *http://hqiso9000.hq.nasa.gov.* By definition, any printed version of this OWI is uncontrolled. Any proposed revision to this manual is submitted by the AA for OSF or his designee. The AA for OSF or his designee, authorizes approval of the revision after an internal review by the Document Control Board.

2.0 SCOPE

This OWI covers those steps which are performed by NASA Headquarters, Code M personnel to develop and approve required NASA Technical Standards for space communications.

3.0 DEFINITIONS

Space Data Systems Standards - Administrative and technical documents that establish rules, technical specifications, requirements, and other criteria that support the engineering, design, functions, parameters, and interfaces of space data systems elements.

Space Data Systems Manager – Individual assigned this process in Code M.
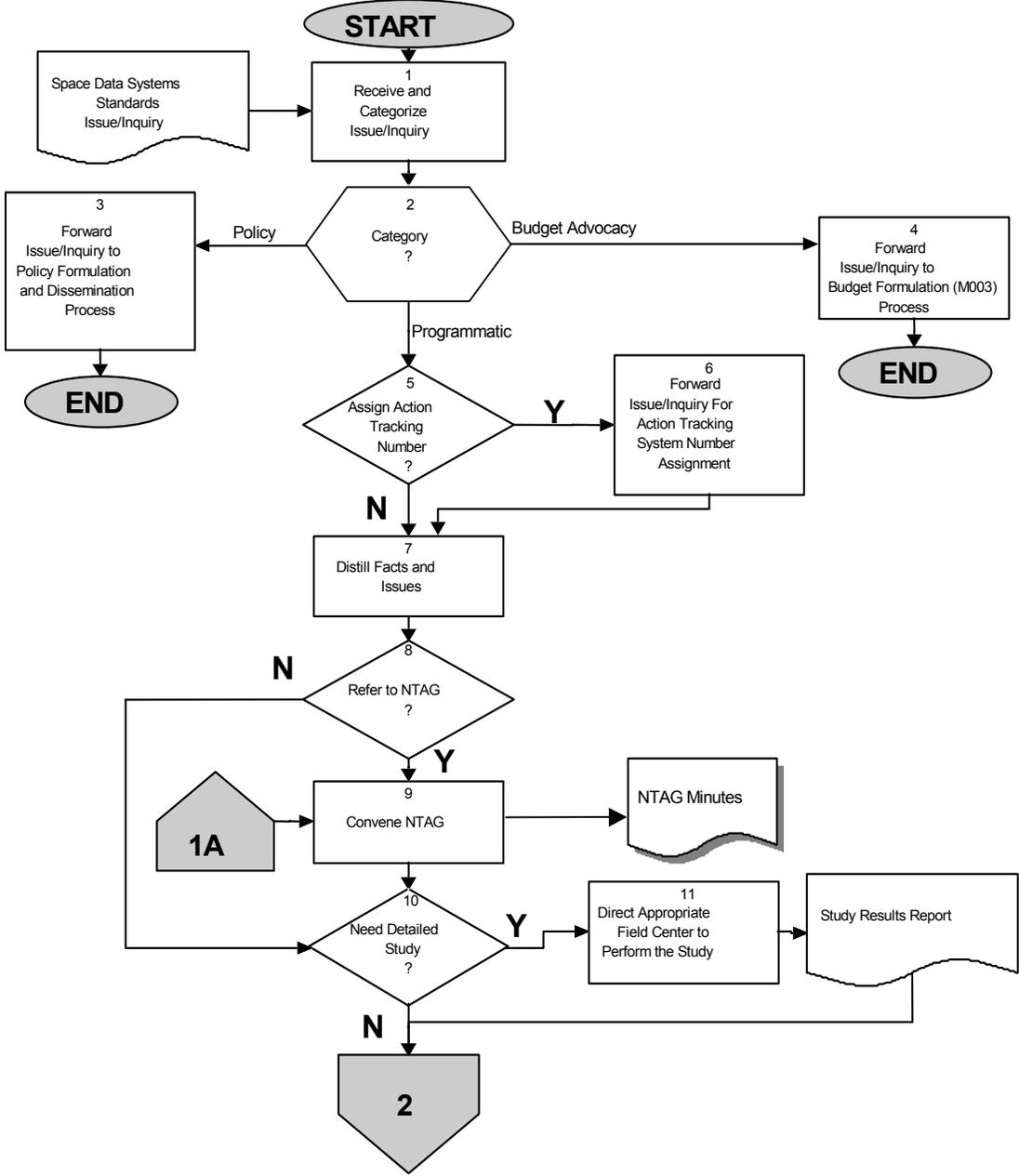
4.0 REFERENCES

The following documents contain provisions that, through reference in this OWI or in policy or procedure documents, constitute the basis for the documented procedure:

NPD 8070.6   Technical Standards

NPD 8074.1   Space Data Systems Standards

HQSM 1200-1   Headquarters Quality System Manual

5.0 FLOWCHART

START

Space Data Systems Standards Issue/Inquiry

1
Receive and Categorize Issue/Inquiry

2
Category ?

Policy →
3
Forward Issue/Inquiry to Policy Formulation and Dissemination Process
END

Budget Advocacy →
4
Forward Issue/Inquiry to Budget Formulation (M003) Process
END

Programmatic ↓

5
Assign Action Tracking Number ?

Y →
6
Forward Issue/Inquiry For Action Tracking System Number Assignment

N ↓

7
Distill Facts and Issues

8
Refer to NTAG ?

N
Y ↓

1A

9
Convene NTAG

→ NTAG Minutes

10
Need Detailed Study ?

Y →
11
Direct Appropriate Field Center to Perform the Study

→ Study Results Report

N ↓

2

1A

2

Y — 15 Requires NTAG Coordination ? — **N** → 12 Prepare/Revise Response

13 Coordinate Response

14 Concur ? — **N**

Y

16 Convene CCSDS MC & ISO/TC20/SC13 ? — **N**

Y

17 Convene CCSDS MC & ISO/TC20/SC13 → CCSDS MC Meeting Minutes / ISO/TC20/SC13 Meeting Minutes

18 Publish, distribute Archive Response → Final Inquiry/Issue Response Correspondence

19 Action Required ? — **N** → **END**

Y

Status Reports

20 Verify Performance

21 Follow-Up ? — **N** → **END**

Y

22 Develop Remedial Actions
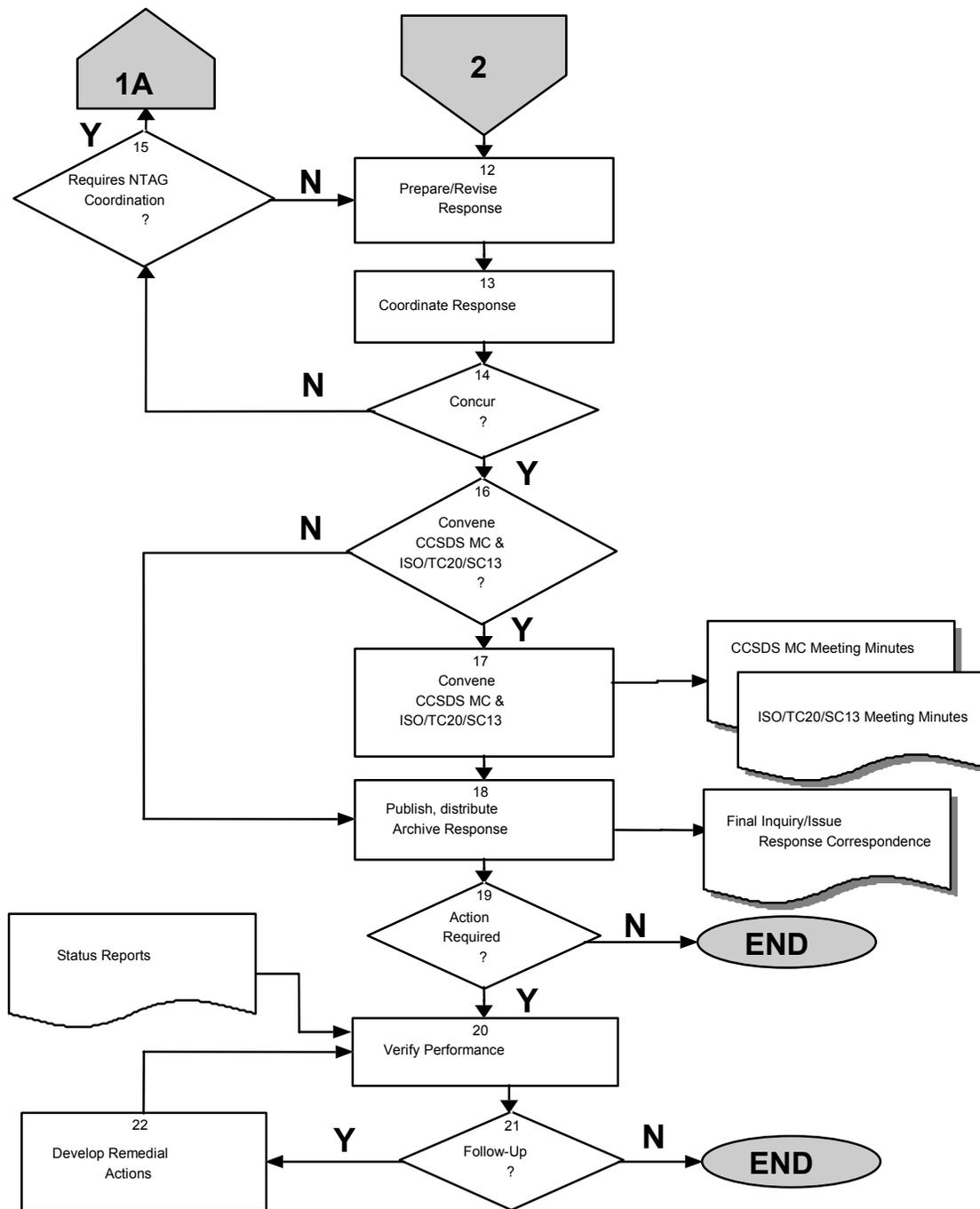
6.0 SPACE DATA SYSTEMS STANDARDS SERVICES PROCESS

NPD 8070.6A, Technical Standards, establishes policy and organizational responsibilities for the development, management, and use of technical standards on NASA programs. This NPD specifies that Officials-in-Charge of Headquarters offices are responsible for developing and approving required NASA Technical Standards in areas for which they have technical and/or functional responsibility; and approve waivers to standards designated as mandatory for which they are the responsible authority. The Office of Space Flight is responsible for space communications.

NPD 8074.1A establishes the policy by which the Office of Space Flight fulfills the responsibilities for Space Data Systems Standards as authorized in NPD 8070.6A, Technical Standards. This procedure describes the functions performed by the Headquarters Space Data Systems Standards Program Officer in establishing policy and providing budget advocacy, program oversight and external advocacy for the Space Data Systems Standards Program.

Actionee	Flowchart Reference	Action
Space Data Systems Manager	1	Receive & Categorize Issue/Inquiry. Receive the inquiry or issue statement and determine and assign one or more categories to the issue/inquiry.
Space Data Systems Manager	2	The possible categories are: policy (Step 3); budget advocacy (Step 4); and/or programmatic (Step 5). The Issue/Inquiry normally manifests itself in the form of minutes and Action Items from meetings, e-mail messages or normal correspondence.
Space Data Systems Manager	3	Forward the issue/inquiry, if policy related, to the Policy Formulation and Dissemination Process for completion.
Space Data Systems Manager	4	Forward the issue/inquiry, if budget related, to the Budget Formulation Process for completion.
Space Data Systems Manager	5	If the significance of the item warrants, to the Code M Action Item Tracking System Administrator for assignment of an OSF Action Item Number then proceed to step 6.

Space Data Systems Manager	6	Forward the issue/inquiry.
Space Data Systems Manager	7	Identify pertinent facts & issues from the Issue/Inquiry statement, if it is a programmatic issue.
Space Data Systems Manager	8	Review the facts and information available and determine whether or not the Issue/Inquiry should be referred to the NASA Technical Advisory Group (NTAG) for discussion. If "yes" convene a NTAG meeting. If "no" prepare/revise a response (Process Step 10).
Space Data Systems Manager	9	Convene a meeting of the NTAG to discuss the Issues/Inquiries requiring a NASA position.
Space Data Systems Manager	10	Determine if a detailed study is required from a supporting organization before a NASA position can be established. If "yes" direct the appropriate organization to perform the study. If "no", prepare/revise a response (Process step 12). NTAG meeting minutes will be distributed within 30 calendar days.
Space Data Systems Manager	11	Direct the appropriate organization to perform the study and to report the results of the study, if a detailed study is required.
Space Data Systems Manager	12	Prepare/revise a response to the issue/inquiry based on the information available.
Space Data Systems Manager	13	Coordinate the response with all impacted offices/organizations.
Space Data Systems Manager	14	Reiterate content of response until all concurrences are obtained by appropriately revising the response.

Space Data Systems Manager	15	If the non-concurrence comments are significant in nature, make a judgment if the NTAG must be reconvened to consider the comments. If "yes" return to Procedure 9. If "no" revise the response and repeat the concurrence cycle.
Space Data Systems Manager	16	Then determine if the Issue/Inquiry should be referred to the CCSDS Management Council and ISO/TC20/SC13. If "yes" refer the matter to the committees. If "no" proceed to publish, distribute and archive the response (Process 18).
Space Data Systems Manager	17	Convene the CCSDS Management Council and ISO/TC20/SC13 meetings.
Space Data Systems Manager	18	Publish, Distribute & Archive the Response. Finalize the response, distribute it within 30 calendar days to the offices/organizations/ standards committees that are impacted and/or have an interest in the issue/inquiry. Maintain a file copy.
Space Data Systems Manager	19	Based on the final response determine if a specific action(s) is required. If no action is required the process is terminated. If action is required, the process continues.
Space Data Systems Manager	20	Verify Performance to determine if the directed office(s)/organization(s) has (have) complied with the action specified in the response.
Space Data Systems Manager	21	If the action is complete the process is terminated. If the action is incomplete, determine remedial action (Process Step 22).
Space Data Systems Manager	22	Determine remedial action, if the directed office(s)/organization(s) has (have) failed to comply with the response. Gather the relevant facts, assess the situation and develop remedial action to achieve compliance with the response. Until the action is completed, performance must be

verified by iterative repetitions of the steps to verify performance and complete remediation actions.

7.0 RECORDS

RECORD IDENTIFICATION	OWNER	LOCATION	RECORD MEDIA: ELECTRONIC OR HARD COPY	SCHEDULE NUMBER AND ITEM NUMBER	RETENTION/DISPOSITION
NTAG Minutes (Action Item Lists)	M-3	M-3	Hardcopy	Schedule 7 Item 4,B	Destroy 5 yrs after supersession or completion.
CCSDS MC Meeting Minutes	M-3	M-3	Hardcopy	Schedule 7 Item 4,B	Destroy 5 yrs after supersession or completion.
ISO/TC20/SC13 Meeting Minutes	M-3	M-3	Hardcopy	Schedule 7 Item 4,B	Destroy 5 yrs after supersession or completion.
Final Inquiry/Issue/Response Correspondence	M-3	M-3	Hardcopy	Schedule 7 Item 4,B	Destroy 5 yrs after supersession or completion.