ATTACHMENT J-1,
APPENDIX D-1 (DRAFT)

NETWORK COMMUNICATIONS INITIATIVE (NCI) CONTINUATION

Table of Contents

1 OBJECTIVES 3

2 APPLICABLE DOCUMENTS 5

3 REQUIREMENTS 5

4 ASSUMPTIONS 5

5 CONSTRAINTS 6

6 TIMELINE 6

1 OBJECTIVES

Network Communications Initiative (NCI) project will define Agency network zone architecture and deploy the supporting Center border network infrastructure establishing Intranet, Extranet, and Public network security zones. Based upon the following OCIO FY2011-2015 priorities:

a. NASA Networks Consolidated Management: NASA will consolidate, operate, and provide network services to better align capabilities with mission requirement through an enterprise level contract.

b. Improve Security Operations and Incident Response: Implement risk mitigation and sustainability practices across the Agency's infrastructure to prevent adverse mission impacts, protect mission resources, and enable the NASA mission to the fullest extent possible

The following functional drivers for NCI were derived:

a. Functional Driver 1: Enable trusted cross-agency collaboration by developing the Agency zoned network architecture, and by creating consistent center network architectures.
b. Functional Driver 2: Enable trusted communications from the NASA Intranet to external networks, including the Internet.
c. Functional Driver 3: Centralize network management. Establish consolidated visibility of all Agency network assets, centralize the management of agency networks, quantify the total cost of agency networks, improve time-to-service, provide IT Security operational support, and establish agency processes for centralize network management.
d. Functional Driver 4: Establish the controls and network architecture needed to meet federal and agency standards as well as confirm compliance with relevant standards.

The following benefits to the agency are expected:

a. Enable trusted cross-agency collaboration

    1. Remove barriers to inter-Center collaboration by extending Agency network management into consistent borders at each NASA Center, facility, and Headquarters
    2. Enhance network security and performance by reducing volume of unauthorized traffic on the NASA Intranet
    3. Improve network security posture by establishing a zoned architecture to support various access needs, including trusted internal communications, controlled

access for Agency partners, and open access to appropriate content for the general public

4. Support Security Operations Center (SOC) objectives by establishing a standardized infrastructure with appropriate monitoring points
5. Enhance Center LAN planning and transition activities by establishing a standardized go-to infrastructure

b. Enable trusted communications between NASA and non-NASA networks Enhance network security by controlling external access in a consistent manner

1. Improve time-to-service for Agency project requirements by establishing standardized access policy and solution set
2. Support Security Operations Center (SOC) objectives by establishing a standardized infrastructure with appropriate monitoring points
3. Centralize network management Improve Agency CIO ability to manage the assets for which he/she is responsible by centralizing visibility of networking assets across the NASA WAN and into all Centers, facilities, and Headquarters

c. Enable more effective cost control by consolidating more networking assets into single maintenance and refresh plans

1. Improve time-to-service for Agency-wide applications through the use of a single management organization
2. Improve service trouble resolution process and reduce time to restore service
3. Support Security Operations Center (SOC) objectives by providing a single source for network data and incident response
4. Ensure compliance Improve Agency CIO ability to assure and validate compliance with Federal and Agency standards.

The NCI deployments include the following locations:

a. Ames Research Center (ARC)
b. Dryden Flight Research Center (DFRC)
c. Glenn Research Center (GRC)
d. Goddard Space Flight Center (GSFC)
e. GSFC's Independent Validation & Verification Facility (IVV)
f. NASA Headquarters (HQ)
g. Jet Propulsion Laboratory (JPL)
h. Johnson Space Center (JSC)
i. JSC's White Sands Test Facility (WSTF)/GSFC's White Sands Complex (WSC)
j. John F. Kennedy Space Center (KSC)
k. Langley Research Center (LaRC)
l. George C. Marshall Space Flight Center (MSFC)
m. MSFC's Michoud Assembly Facility (MAF)
n. Stennis Space Center (SSC)/NASA Shared Services Center (NSSC)

The NCI Project will have procured all equipment for all centers and will have completed deployments at DFRC, HQ, MSFC, NSSC/SSC, ARC, GRC, WSTF/WSC and LaRC. The NCI Continuation Project will complete the deployments at the remaining centers. The transition testing of Center Zoned Architecture Project to NCI will not be part of NCI Continuation Project and will be included in the CZAP project.

2 APPLICABLE DOCUMENTS

The following documents are available on CD-ROM and may be requested in writing on company letterhead from:

Jeff Jackson
OFC: PS31, Procurement Office
NASA, George C. Marshall Space Flight Center
MSFC, AL 35812
256-544-8935
jeffery.s.jackson@nasa.gov

a. *System Design Document, Network Communications Initiatives (NCI) Network Architecture Approach*, (NCI Intranet-023 BASELINE2 (Systems Design Document).doc)
b. *Redacted - Network Communications Initiatives (NCI), Agency IT Program Management Board, Key Decision Point (KDP-D) Briefing*, (OCIO_IT_PMB_KDP_D_NCI_032609.ppt)
c. *Redacted - Network Communications Initiative (NCI), Project Plan, NCI-005,* (NCI-005_(Project_Plan)_BASELINE_1c.doc)

3 REQUIREMENTS

a) The contractor shall complete deployments of NCI to the following Centers:
   1. Goddard Space Flight Center (GSFC)
   2. GSFC's Independent Validation & Verification Facility (IVV)
   3. Jet Propulsion Laboratory (JPL)
   4. Johnson Space Center (JSC)
   5. John F. Kennedy Space Center (KSC)
   6. MSFC's Michoud Assembly Facility (MAF)

b) The contractor shall use the Government Furnished Equipment for deployments.

c) The contractor shall bid approximately 9,744 hours for FY10 and 2,080 hours for FY11.

4 ASSUMPTIONS

a. NCI Continuation Project will deploy prior to CZAP/NCI transition testing begins.
b. NCI deployments are operational however CZAP determines when LAN connections are activated.

5 CONSTRAINTS

Deployments will adhere to Mission Freeze Polices.

6 TIMELINE

The contractor shall perform NCI Continuation Project deployments to the following time line:

Complete deployment by end of June 2010:

c. Goddard Space Flight Center (GSFC)
d. GSFC's Independent Validation & Verification Facility (IVV)
e. Jet Propulsion Laboratory (JPL)

Complete deployment by end of March 2011:

1. Johnson Space Center (JSC)
2. John F. Kennedy Space Center (KSC)
3. MSFC's Michoud Assembly Facility (MAF)