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3	
4	
5	
6	
7	Appendix 2
8	Abbreviations and Acronyms
9	
10	For
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12	Information Management and
13	Communications Support (IMCS)
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IMCS Draft RFP 06/27/2007

1 Certain terms, acronyms, and abbreviations used in this contract are listed and defined

2 below. This section is informational only. If and to the extent any definition contained

3 below conflicts with any other portion of the contract, the other portion of the contract

shall prevail.

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45 SW 45th Space Wing

A&E Architectural and Engineering

A/G Air-to-Ground

aAAO Associate Account Authorization Official AACR2 Anglo-American Cataloguing Rules

AC Access Control

ACA Associate Contractor Agreement

ACL Access Control List

AEC Automatic Exposure Control
AER Azimuth, Elevation, and Range

AF Air Force

AFB Award Fee Board

AFFARS Air Force Federal Acquisition Regulation Supplement

AFMAN Air Force Manual

AFMC Air Force Material Command
AFSPC Air Force Space Command
AMS Acquisition Management System

ANI/ALI Automatic Number Identification/Automatic Location Identification

ANSI American National Standards Institute

AO Authorizing Official
AOE Area of Emphasis
ARC Ames Research Center

ARF Assembly and Refurbishment Facility

ARRI Arriflex Camera

ARS Administrative Radio System
ASA American Standards Association
ASI Asynchronous Serial Interface

ASCII American Standard Code for Information Interchange

ASCS Agency Security Configuration Standards

ASQ American Society for Quality

ASQC American Society for Quality Control
ASRS Automated Support Requirements System

ASUS Agency Security Update System ATM Asynchronous Transfer Mode

ATOTS Advanced Transportable Optical Tracking System

ATSC Advanced Television Systems Committee

ATV Asset Transition Value ATXS ATM Transmission System

A/V Audio/Visual

AWG American Wire Gage

AZ Azimuth

B/U Back Up

BCDS Broadband Communications Distribution System

BCI Baseline Configuration Imaging

BICSI Building Industry Consulting Service International

BIM Base Interface Module

bps Bits Per Second

BSP Betacam Superior Play

C&A Certification and Accreditation C&T Communications and Tracking

CAD Computer Aided Design

Computer Aided Drafting

CAD-RMS Computer Aided Dispatch - Report Management System

CAM Control and Acquisition Module

CAMS Circuit Assignment Management System

CAS Code Activated Switch

CASB-CMA Cost Accounting Standards Board – Cost of Money - Facilities

CBA Collective Bargaining Agreement

CBACS Common Badging and Access Control System

CBT Computer Based Training

CCAFS Cape Canaveral Air Force Station

CCB Configuration Control Board Change Control Board

CCC Complex Control Center CCD Charged Coupled Device CCF Converter Compressor Facility

CCSMO Cape Canaveral Space Management Office

CCTV Closed-circuit television CCU Camera Control Unit

CD Compact Disk

CD&SC Central Distribution and Switching Center

CDL Commercial Driver's License

CDR Critical Design Review

CDVS Combined Data/Video Switch

CEE Collaborative Engineering Environment

CES/CEV Civil Engineering Squadron / Environmental Flight

CFP Customer Face Plate

CFR Code of Federal Regulations

CIAO Central Industry Administrative Office CID Configuration Identification Document

CIF Central Instrumentation Facility

CIL Critical Items List

CIO Chief Information Officer

CITE Cargo Integrated Test Equipment
CITSM Center IT Security Manager

CLASS Custom Local Area Signaling Service

CLIN Contract Line Item Number
CLS Contingency Landing Site
CM Configuration Management

Cm Centimeters

CM&S Communications Maintenance and Storage CMDS Configuration Management Data System

CMM Capability Maturity Model

CMR Communications Material Review

CO Central Office
CO Contracting Officer

COAM Customer Owned and Maintained

CoF Construction of Facilities
COF Center Operations Facility
CoFR Certificate of Flight Readiness
COLD Computer Output Laser Disk
COMSEC Communications Security
CONUS Continental United States

CORRS CWDM Optical Remultiplexer and Regenerating System

COTR Contracting Officer's Technical Representative

COTS Commercial Off-the-Shelf

CP Check Print (no color or density corrections)

CR Change Request

CRF Canister Rotation Facility

CSLA Contract Service Level Agreement

CSN Central Summing Network Customer Service Request CSR CSR Computer Sciences Raytheon **CSC Customer Support Center** Customer Service Unit **CSU** CT Crawler Transporter **CTC** Camera Terminal Cabinet Compatibility Test Van **CTV**

CV Contract Value

CWDM Course Wave Division Multiplexers

CX Complex

CXT Cross Connect Terminal

CY Calendar Year

CYS Copies

D/N Dupe Negative
DBM Milliken Camera

DCAA Defense Contract Audit Agency

DCMA Defense Contract Management Agency

DD Data Depository

DEG Degree

DFRC Dryden Flight Research Center

DFUM Directorate Facilities Utilization Manager DHCP Dynamic Host Configuration Protocol

DNS Domain Name Server
DO Delivery Order

DOAMS Distant Objective Attitude Measurement System

DoD Department of Defense DOE Department of Energy

DOL Day of Launch
DOL Department of Labor

DOLILU Day-Of-Launch Initialization Load Update

DOT Department of Transportation

DPAS Defense Priorities and Allocation System

dpi Dots per Inch
DR Disaster Recovery
DR Data Requirement
DR Discrepancy Report

DRA Document Release Authorization
DRD Data Requirement Description

DRL Data Requirements List
DRS Direct Radio System
DS Digital Signal

DSL Digital Subscriber Line
DSU Data Service Unit

DTE Data Transmission Equipment
DTMF Dual Tone Multi-Frequency

DTV Digital Television DV Digital Video

DVD Digital Versatile Disc DVR Digital Video Recorder

DVTS Digital Video Transmission System

ECN Equipment Control Number ECWG Export Control Working Group

EDC Engineering Data Center

EDRS Electronic Drawing Review System

EDW Employee Data Warehouse

EET End-to-End Test
EI End Instrument

EIADD Engineering Imagery Acquisition Distribution Document

ELF Extremely Low Frequency
ELV Expendable Launch Vehicle

EMA Electromagnetic Measurement and Analysis

EMC Electromagnetic Compatibility
EMI Electromagnetic Interference
EML Electromagnetic Laboratory
EMS Electronic Meeting System

ENG Engineering News Gathering

Eng. Engineering

EO Engineering Order

Executive Order

EOM End of Mission

EP Engineering Print (with timing)
EPA Environmental Protection Agency

ER Eastern Range

ESMD Exploration Systems Mission Directorate

ESR Engineering Support Request ESS Electronic Security Surveillance

EUT Equipment Under Test

EWSD Electronicious Whal System Digital

EXP Exposure Extension

f/s Frames per Second

FAA Federal Aviation Administration
FAR Federal Acquisition Regulation
FAST Federal Automotive Statistical Tool
FBI Federal Bureau of Investigations
FCA Frequency Control and Analysis

FCO Flight Control Officer

FDDI Fiber Data Distribution Interface FDO Fee Determination Official

FEP Front-End Processor

FICA Federal Insurance Contributions Act
FIPS Federal Information Processing Standard

FIRMR Federal Information Resources Management Regulations

FISMA Federal Information Security Management Act

FLSA Fair Labor Standards Act

FMEA Failure Modes and Effects Analysis

FOD Foreign Object Debris FOT Fiber Optic Terminal

FOTS Fiber Optic Transmission System

FOV Field of View

FOWB Fiber Optic Wideband FP Film Productions

FPL Florida Power and Light fps Frames Per Second

FR Frame Relay

FRC Federal Record Center FRR Flight Readiness Review

FSUA Facility Space Utilization Database
FTS Federal Telecommunications System
FUTA/SUTA Federal and State Unemployment Tax Act

FY Fiscal Year

G&A General and Administrative GAO General Accounting Office

GB Gigabyte

GBL Government Bill of Lading

Gbps Gigabit Per Second

GCAIP Ground Camera Ascent Imagery Project

GDC General DataComm

GFE Government Furnished Equipment GFP Government Furnished Property

GFY Government Fiscal Year GH2 Gaseous Hydrogen

GHz Gigahertz

GIDEP Government/Industry Data Exchange Program

GIS Geographic Information System

GMIP Government Mandatory Inspection Point

GMT Greenwich Mean Time

GORR Ground Operations Readiness Review

GOTS Government off the Shelf

GOWG Ground Operations Working Group

Group Processor Assembly GPA GPC Government Purchase Card **GPO** Government Printing Office **GPS Global Positioning System GSA** General Services Administration **GSE Ground Support Equipment** Goddard Space Flight Center **GSFC Government Source Inspection GSI**

GSTDN Ground Spaceflight Tracking and Data Network

GUI Graphical User Interface

HASBL Hasselblad Camera

HASBL EL Hasselblad Camera, Electric

HD High Definition

HDRS High Data Rate System

HDSL High Bit Rate Digital Subscriber Line

HDTV High-Definition Television

He Helium

HEDS Human Exploration and Development of Space

HMA Hypergol Maintenance Area
 HMF Hypergolic Maintenance Facility
 HOSC Huntsville Operations Support Center

HP Hewlett Packard HQ Headquarters

HSB Hypergolic Support Building

HSBLD Hasselblad Camera

HSBLD EL Hasselblad Camera, Electric HTML Hyper-Text Markup Language

HUL Hulcher Camera

HUL DF Hulcher Camera Double Frame

HVAC Heating, Ventilation, and Air Conditioning

I/F Interface

I/F Image to Frame I/O Input/Output

IAF Image Analysis Facility
IATO Initial Authority to Operate

ICAS Institutional Computerized Archival System

ICD Interface Control Document

ICE Integrated Collaborative Environment ID/IQ Indefinite Delivery/Indefinite Quantity IDNX Integrated Digital Network Exchange

IDS Intrusion Detection System

IEEE Institute of Electrical and Electronic Engineers
IEMP Integrated Enterprise Management Program

IF Intermediate Frequency

IFLOT Intermediate Focal Length Optical Tracker IFMP Integrated Financial Management Program

IG Inspector General

IGOR Intercept Ground Optical Recorder

IMCS Information Management and Communications Support

IMS Inventory Management System

IN Internegative Print

IOC Initial Operational Capability

IOMI Integrated Operations and Maintenance Instruction

IOP Internal Operating Procedure

IP Internet Protocol

IP Interpositive Film Print

IPA Interpositive Film Print, A-Wind

IPO Integration Project Office IPSEC Internet Protocol Security IPT Integrated Product Team

IRIG Inter-Range Instrumentation Group

IS Information Security

ISBN International Standard Book Number

ISC Institutional Services Contract

ISDN Integrated Switched Digital Network

ISO International Organization for Standardization

IT Information Technology

IT&C Information Technology and Communications Directorate

ITAR International Traffic in Arms Regulations

ITSM IT Security Manager

JDMTA Jonathan Dickinson Missile Tracking Annex

JDP Joint Documented Procedure

JHB Joint Handbook

JOP Joint Operating Procedure

JOSA Joint Operating and Support Agreement

JPL Jet Propulsion Laboratory JSC Johnson Space Center

KARS Kennedy Area Recreational Services

KAS KSC Applications System

Kbps Kilobit per Second

KCCS Kennedy Complex Control System

KEDS Kennedy Engineering Documentation System

KFRL Kennedy Forward Return Link
KICS KSC Integrated Console Schedule
KIIS Kennedy Integrated Imagery System

KIS KSC Internet System

KMAN Kennedy Metropolitan Area Network

KNET Kennedy Institutional Network KNPD Kennedy NASA Policy Directive

KNPR Kennedy NASA Procedural Requirements
KPRD Kennedy Program Requirements Document

KSC Kennedy Space Center KSCNF KSC News Facility

KSCTV KSC Public Affairs Television

KSERP Kennedy System Engineering Review Panel

KTM Kineto Tracking Mount Ku Ku frequency band

kW Kilowatt

LACB Landing Aids Control Building

LAN Local Area Network
LaRC Langley Research Center
LBV Low Bandwidth Video
LC Launch Complex
LCC Launch Control Center

Launch Control Center

Launch Commit Criteria

LCCWG Launch Commit Criteria Working Group
LCWG Launch Countdown Working Group

LED Light Emitting Diode

LETF Launch Equipment Test Facility

LOA Launch Operations Area

LOCC Launch Operations Control Center

LOS Loss of Signal

LOV Limit/Loss of View

LPLWS Launch Pad Lightning Warning System

LPS Launch Processing System
LRR Launch Readiness Review
LSE Launch Support Equipment
LSP Launch Services Program

MAC Move, add, or change

MAN Metropolitan Area Network

MB Megabyte Mb (Mbit) Megabit

Mbps Megabits per Second MDF Main Distribution Frame

MESC Medical and Environmental Support Contract

MHz Megahertz

MIDDS Meteorological Interactive Data Display System

MILA Merritt Island Launch Area
MIP Mandatory Inspection Point
MIS Management Information System

ML Mobile Launcher

MLP Mobile Launch Platform

mm Millimeter

MOA Memorandum of Agreement MOD Mission Operations Directorate

MOPIC Motion Picture

MOSB Multi Operations Support Building
MOTS Mobile Optical Tracking System
MOU Memorandum of Understanding
MPL Motion Picture Laboratory
MPN Manufacturer Part Number

MPPF Multi-Payload Processing Facility

MS Microsoft

MSDS Material Safety Data Sheet
MSFC Marshall Space Flight Center
MSR Multi-service Switch Routing
MWO Maintenance Work Order

N/A Not Applicable N/R Not Required

NAIS NASA Acquisition Internet Services NAMS NASA Account Management System

NARA National Archives and Records Administration NASA National Aeronautics and Space Administration

NASCOM NASA Communications Network

NASCOP NASA Communications Operating Procedures

NASIRC NASA Incident Response Center

NCAD NASA Consolidated Active Directory

NCB Network Control Board

NCCB Network Configuration Control Board

NCC Network Control Center
NDC NASA Data Center

NDE Non-Destructive Evaluation

NE Non Exempt

NEC Negotiated Estimated Cost

National Electrical Code

NEF NASA Electronic Forms

NEFS NASA Electronic Forms System

NEMS NASA Equipment Management System NESS NF1018 Electronic Submission System

NF NASA Form

NFPA National Fire Protection Association

NFS NASA FAR Supplement

NIMS Network Information Management System

NISN NASA Integrated Services Network

NIST National Institute of Standards and Technology

NITR NASA IT Requirement

nm Nanometer

NOMAD NASA Operational Messaging and Directory

NORS NASA On-line Registration System
NOSC NASA On-line Supply Catalog
NPD NASA Policy and Directives

NPDMS NASA Property Disposal Management System

NPPS NASA Payroll/Personnel System NPR NASA Procedural Requirements

NRZ-L No Return Zero-Level

NSAP1 Network Services Assurance Plan1 NSAP2 Network Services Assurance Plan2 NSMS NASA Supply Management System

NSN National Stock Number NSP Network Security Perimeter

NSP-CCB Network Security Perimeter Configuration Control Board

NSR NISN Service Request

NSSTC National Space Science and Technology Center

NSTS National Space Transportation System

NTE Not To Exceed

NTP Network Time Protocol

NTSC National Television Standards Committee

O&C Operations and Checkout O&M Operations and Maintenance

O/E Optical to Electrical

OASIS Reference Model for an Open Archival Information System

OC Optical Carrier

OCC Operations Control Center
OCI Operations Control Instructions
OCLC On-Line Computer Library Center

OCSO Organization Computer Security Official

OD Operations Document
ODC Other Direct Cost

ODIN Outsourcing Desktop Initiative for NASA

OEO Optical to Electrical to Optical
OHF Occupational Health Facility
OIG Office of the Inspector General

OIS Operational Intercommunications System

OIS-D Operational Intercommunications System Digital OIS-Q Operational Intercommunications System Quintron

OJT On-the-Job Training

OMB Office of Management and Budget

OMD Operations and Maintenance Documentation
OMI Operation and Maintenance Instruction

OMRSD Operations Maintenance Requirements Specification Document

OPF Orbiter Processing Facility
OPR Office of Primary Responsibility
OPS Offnet Processor Subsystem
OR Operations Requirements
OSB Operational Support Building

OSB2 Operational Support Building Number 2

OSCU Optic System Control Unit

OSHA Occupational Safety and Health Administration

OTV Operational Television

OTV-D Operational Television Digital

PADD Photographic Acquisition Distribution Document

PAFB Patrick Air Force Base

PAMIS Printing and Microimaging Information System

PAO Public Affairs Office

PAWS Paging and Area Warning System

PBR Policy Based Routing PC Personal Computer

PCC Processing Control Center

Photo Control Center

PCO Program Controlled Output
PCO Plessy Corning Optronics
PCM Pulse Code Modulation
PDF Portable Document Format

PDL Ponce DeLeon

PDS Premise Distribution System

PHSF Payload Hazardous Servicing Facility

PIA Privacy Impact Analysis
PIV Personnel Identity Verification

PM Program Manager PMN Program Model Number

PMS Performance Measurement System

POA&M Plan of Action & Milestones

POCC Payload Operations Control Centers
POCS Photo Optical Control System
POP Program Operating Plan
POTS Plain Old Telephone Service

PPBE Program, Planning and Budget Execution PRCB Program Requirements Control Board PRD Program Requirements Document

PRI Primary Rate Interface

PRP Personnel Reliability Program
PRR Payload Readiness Review

PS Photosonic Camera

PSAP Public Safety Answering Point

PSCN Program Support Communications Network

PSCRD Program Support Communications Requirements Document

psi Pounds Per Square Inch

PSLA Project Service Level Agreement PTCR Pad Terminal Connection Room

PTP Point-to-Point PTZ Pan, Tilt, Zoom

PWS Performance Work Statement

QA Quality Assurance

QAE Quality Assurance Evaluator

QC Quality Control

QMS Quality Management System

R&D Research and Development
R&M Reliability and Maintainability
RAB Registration Accreditation Board.

RADIUS Remote Authentication Dial In User Service

RAID Redundant Array Inexpensive Disks

RAM Random Access Memory RAS Reradiating Antenna System

RCDD Registered Communication Distribution Designer

RCP Radio Control Panel

RCRA Resource Conservation and Recovery Act

RCU Remote Control Unit

REV Revision

RF Radio Frequency

RFI Radio Frequency Interference

RFIC Request For Information/Clarification
RFID Radio Frequency Identification

RFP Request For Proposal RFQ Request for Quotation RFS Request for Service

RMAS Remote Monitoring and Alarm System

RMS Report Management System
ROCC Range Operations Control Center
ROI Range Operating Instruction

ROM Read-Only Memory

Rough Order of Magnitude

RPS Record and Playback Subsystem

RPSF Rotation, Processing and Surge Facility

RRB Risk Review Board
RS Recommended Standard
RSA Records Staging Area
RSU Remote Service Unit
RTLS Return To Launch Site
RTU Remote Terminal Unit

RX Receiver

S&MA Safety and Mission Assurance

S/W Software

SAA System Assurance Analysis SAN Storage Area Network

SATERN System for Administration, Training, and Educational Resources for NASA

SBIR Small Business Innovative Research

SBU Sensitive But Unclassified SCA Service Contract Act

SCADA Supervisory Control And Data Acquistion

SCAPE Self-Contained Atmospheric Protective Ensemble

SD Standard Definition SDI Serial Data Interface

SDTI Serial Digital Transport Interface

SE Sustaining Engineering

SEI Software Engineering Institute
SE&I System Engineering and Integration

SF Standard Form

SLF Shuttle Landing Facility SLSL Space Life Sciences Lab

SNMP Simple Network Management Protocol SOLAR Site for On-line and Learning Resources

SONET Synchronous Optical Network SOP Standard Operating Procedure

SOW Statement of Work SP Special Publications

SPA Shuttle Processing Area SPECSINTACT Specifications-Kept-Intact

SPOC Space Processing Operations Contract

SR Service Request

SR&QA Safety, Reliability, and Quality Assurance

SRAS Secure Remote Access Services

SRB Solid Rocket Booster
SSC Stennis Space Center
SSL Secure Sockets Layer
SSME Space Shuttle Main Engine

SSPF Space Station Processing Facility

STD. Standard

STDN Spaceflight Tracking and Data Network STI Scientific and Technical Information

STS Space Transportation System
S-VHS Super Video Home System

TAL Transoceanic Abort Landing

TB Test Board

TBD To Be Determined TC Technical Control

TCC Television Control Center

TCDT Terminal Count Demonstration Test
TCRS Training and Certification Record System
TCS Transportable Communication System

TIFF/.tif Tag Image File Format

TIM Technical Interchange Meeting

TO Technical Order

Task Order

TPS Thermal Protection System TSR Telephone Service Request

TT Trouble Ticket

TTC Telephone Terminal Cabinet

Temporary Test Configuration

TV Television
TX Transmitter

U.S.C. United States Code
UHF Ultra-High Frequency

um Micrometer

UPS Uninterruptible Power Supply

United Parcel Service

USB Unified S-Band

UTC Universal Time Code

VAA Vehicle Assembly Area

VAB Vehicle Assembly Building

VABR Vertical Assembly Building Repeater

VAFB Vandenberg Air Force Base

VASS ViTS Automated Scheduling System

VAX Virtual Address Extension VCR Video Cassette Recorder

VDL VHF Data Link

VDMS Voice Distribution Management System

VHF Very High Frequency
VIP Very Important Person
VITC Video Teleconference

ViTS Video Teleconferencing System
VLAN Virtual Local Area Network
VoIP (VOIP) Voice Over Internet Protocol
VoTS Voice Teleconferencing System
VPF Vertical Processing Facility
VPN Virtual Private Network
VPP Voluntary Protection Program

WAN Wide Area Network

WBS Work Breakdown Structure
WBTS Wideband Transmission System
WDM Wavelength Division Multiplexer

WebTADS Web Time and Attendance Distribution System

WFF Wallops Flight Facility

WINS Windows Internet Naming Service

WLI Workload Indicator
WR Western Range

WSC White Sands Complex WUC Work Unit Code

work Unit Code

WYE Work Year Equivalent 1

1	
2	
3	
4	
5	
6	
7	Appendix 3
8	Definitions
9	
10	For
11	
12	Information Management and
13	Communications Services (IMCS)
14	

IMCS Draft RFP 06/27/2007

45th Space Wing (45 SW) - The Air Force's 45 SW is the DoD executive agent and
 single manager of Range facilities at Cape Canaveral Air Force Station, Patrick Air Force
 Base, and downrange stations. The 45 SW's mission is to develop, operate and manage
 Eastern Range facilities and, as host agency, provide support services to all launch/user
 activities.

Acceptance Testing - The testing of a system, subsystem, assembly or subassembly in an operating environment, to ensure that the performance of the aggregate is not compromised by the integration of the newly developed or modified asset.

Accreditation – The official management decision given by a senior agency official to authorize operation of an information system and to explicitly accept the risk to agency operations (including mission, functions, image, or reputation), agency assets, or individuals, based on the implementation of an agreed-upon set of criteria.

Availability - The percentage of a scheduled service delivered to the user. Availability is measured as: 100 * (number of scheduled service time in a reporting period – the time the scheduled service was not provided during a reporting period) / (number of scheduled minutes in a reporting period). This equals the percentage of scheduled service delivered to the user during a reporting period.

Cape Canaveral Air Force Station (CCAFS) – The geographic area of the station encompasses approximately 24.7 square miles (15,804 acres) and is located on the Atlantic Coast between Port Canaveral, Florida and the National Aeronautics and Space Administration (NASA), Kennedy Space Center (KSC). It includes Air Force, NASA, NOTU, and other tenants/customers.

Certification - The process of determining and attesting to a required level of value, performance and readiness.

Charging Rule Set – Instructions and guidelines for the contractor to help in assigning the correct customer fund source to the work being performed.

Commercial Off the Shelf (COTS) Software - Software that is commercially available and maintained by a vendor. Custom software maintained by the Government or the contractor is not COTS software.

Configuration Control - The discipline of processing changes to the configuration baseline to ensure that the changes are adequately described, assessed, approved by a proper authority, and closed upon verification of implementation.

Configuration Control Board (CCB) - A functional body whose chairperson is solely responsible for the approval or disapproval of configuration changes within the limits of the Board's authority.

Configuration Management Data System (CMDS) - A KSC centralized computer data system for maintaining the design configuration identification and change tracking for ground support facilities, systems, and equipment end-items.

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Contracting Officer (CO) - The individual appointed by the contracting activity for procuring and/or administering a contract. The CO is the only person authorized to direct contractor performance, execute amendments to the contract, and contractually obligate the Government.

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Contracting Officer Technical Representative (COTR) - A Government official who has been appointed by the Contracting Officer (CO) who has the responsibility in managing the technical aspects of the contract and monitor the contractor's technical performance and delivery of the final products and/or services. Pursuant to NFS 1842.270, the COTR is not authorized to initiate procurement actions or in any way that cause a change to the contract or increase the Government's financial obligations. The CO is the only Government official authorized to direct contractor performance, execute modifications to the contract, and contractually obligate the Government.

17 18 19

Contract Specialist - The individual within the contracting office, who performs the day-to-day administration of the contract. The contract specialist may also be the CO.

20 21

- Coordination This definition contains typical functions associated with the interaction
 with the internal and external service providers, other contractors, and the customer as
 necessary to meet customer service requirements. These functions include:
- 25 a) Supporting the development of customer requirements.
- 26 b) Providing service status.
- 27 c) Obtaining customer feedback.
- 28 d) Providing consultation for reporting and resolving service problems.
- 29 e) Operations coordination (e.g., airspace interference, radio-frequency interference).
- 30 f) Interagency coordination.

31

Contractor - The term "contractor" as used herein refers to both the prime contractor and any subcontractors. The prime contractor has a contract with the Government directly.

The prime shall ensure that subcontractors comply with the provision of this contract.

35

36 **Corrective Action** - Action taken to correct or prevent the recurrence of a nonconformance.

38

Countdown (Range Users) - The detailed Range User countdown is prepared by the Range User to supplement the general countdown in the Operation Requirements (OR). The countdown is used by operations support people during the operation.

42

1 **Critical Item** - A Category 1, 1S, or 2 single failure point (See NSTS 22206). 2 3 Critical Items List (CIL) - A listing comprised of all critical items, meeting the 4 requirements of NSTS 22206, identified as a result of performing the Failure Modes and Effects Analysis (FMEA). Also see Criticality Categories. 6 7 Criticality Level 1S – A single failure in a safety or hazard monitoring system that could 8 cause the system to fail to detect, combat, or operate when needed during the existence of 9 a hazardous condition and could result in loss of life or flight hardware. 10 11 **Customer** - Anyone who receives a service or product from this contract. 12 13 Customer Fund Source - A unique category of funding associated with a specific 14 customer. 15 16 Customer Owned And Managed (COAM) – A computer network built, operated, 17 maintained, and/or managed by a KSC Government or contractor organization, outside of 18 the existing KNET institutional network system. 19 20 Customer Owned And Managed Network – A computer network built, operated, 21 maintained, and/or managed by a KSC Government or contractor organization, outside of 22 the existing KNET institutional network system. 23 24 **Data Center** – A central facility that contains a number of computers that host IT 25 applications. Typically this type of facility has redundant power, air conditioning, and 26 network connections. At KSC, the data center currently only has limited redundancy. 27 28 **Data Requirement Description** - A detailed description of a required data item 29 including purpose, content, format, references, maintenance requirements, submittal 30 requirements, and other pertinent information. 31 32 **Demarcation** – KSC shared interface with internal or external customers. 33 34 **Design Review** – Review of a configuration end-item's actual design to ensure that the 35 design satisfies the authorized configuration requirements before design release for 36 procurement and implementation commitments. 37 38 **Development -** The process whereby new hardware and software capability is introduced 39 into a system. Development encompasses those activities required to create new systems 40 or enhance existing systems beyond their as-built capabilities and performance. It includes the functions of product design, product fabrication or programming, product 41 42 specification testing and acceptance, and product integration and test.

1 **Documentation** - This definition contains typical functions associated with the 2 preparation of technical documents. This information shall be available in both a hard 3 copy and electronic format and comply with the policies and requirements set forth by 4 NASA. These functions include: 5 6 Configuration control of document changes. (a) 7 8 Record and provide change processing and implementation status of services. (b) 9 10 Providing technical reports and requirements documents. (c) 11 12 (d) Providing design documents. 13 14 (e) Providing system configuration documents. 15 16 Providing technical plans and procedures. (f) 17 18 Storing technical documentation. (g) 19 20 (h) Providing documentation services for Government generated documents. 21 22 **Electronic Security System (ESS)** - The system that manages the surveillance, access 23 control, and alarm systems for KSCfacilities. 24 25 **Emergency Request** - A request for service or services by a requestor who has 26 determined that the request warrants having expedited handling. 27 28 **End-to-End** - Used to delineate the boundaries of a system. In the context of this 29 contract, end-to-end means the two-way path from the spacecraft to the ground antenna 30 through the ground systems, the communications systems, to the user system, such as a 31 control center or payload processing facility. 32 33 **End-to-End Testing -** The testing, in an operational environment, to ensure that data 34 flows from each one end to the other end of a defined end-to-end system and meets 35 documented performance and data flow and data accuracy requirements and data interface agreements. 36 37 38 **Excess** - A classification assigned to Government property for which there is no 39 requirement at a particular operational level. 40 41 **Facility** - The location where various mission services, data services, and center unique 42 services are performed. 43 44 Failure Modes and Effect Analysis (FMEA) - The analysis of the potential failure 45 modes in a system to determine effects on system operation, personnel safety, and flight

hardware; and to classify each failure mode according to severity.

First Level Troubleshooting - Receipt of trouble calls, problem isolation and resolution of minor problems (e.g., lost password, software question), dispatch of problem reports to the proper maintenance agency, and customer follow-up.

Functional Area - The organization having responsibility for the actual performance of a given service, whether it is performed in-house or by contract.

Geographic Information System (GIS) - A computerized relational database management system for capture, storage, retrieval, analysis, and display of spatial (locationally defined) data. GIS software applications allow users to develop linkages between graphical and non-graphical data.

Government-Furnished Equipment (GFE) - Equipment or property in the possession of, or directly acquired by, the Government and subsequently made available to the contractor. This includes all property or equipment owned by or leased to the Government, acquired by the Government, or acquired with Government funds.

Government-Industry Data Exchange Program (GIDEP) – A cooperative effort to exchange research, development, design, testing, acquisition, and logistics information among Government and industry participants. Used to notify GIDEP participants of actual or potential problems on discrete parts, components, materials, manufacturing processes, test equipment, or safety conditions. Includes the use of ALERT and SAFE-ALERT Reports.

Hazard - The presence of a potential risk situation whereby environment, personnel errors, design characteristics, procedural deficiencies, or subsystem malfunctions may result in loss of personnel capability, loss of system, or loss of life. (See NSTS 5300.4)

Hazardous Operation (Hazardous Tasks) - Any operation involving activities that could result in exposure/injury/loss of life to operating personnel and/or damage to systems/equipment or have an environmental impact.

In-Family – Term for classifying work to be performed by the contractor that does not need Government approval prior to implementation. In-family work is routine and repetitive in nature. It is normally associated with a provisioning of a standard service.

Integration -The addition of a hardware, firmware or software product to an existing system, subsystem, assembly or subassembly.

Interface - The point or area where a relationship exists between two or more parts, systems, programs, functions, persons, or procedures where physical and/or functional compatibility is required.

KSC Integrated Control Schedule (KICS) - The implementing schedule for Shuttle operations that occur for all missions. Published Monday through Friday (weekends as

required) in a 96-hour/11-day format to include, but not be limited to, all work in the following categories: hazardous tasks, current and near term flow critical path activities, tasks requiring non-dedicated support, tasks requiring Launch Processing System (LPS) support, and management visibility items as specified by ISC/NASA management.

Launch Scrub - A failed launch attempt or launch delay, which occurs after the Range terminal count (launch minus 360 minutes) is initiated. The duration of the delay is not considered, one change of date is considered one scrub, regardless of the delay.

Launch Slip - A change in launch date, which occurs prior to the initiation of the Range terminal count.

 Life-Cycle Costs – A form of economic analysis that considers the total cost of owning, operating, and maintaining a building over its useful life. Life-cycle costs are the sum of the present value of the following: investment costs, less salvage value, at the end of the study period; non-fuel operation and maintenance costs; replacement costs, less salvage costs, of the replaced building systems; and energy costs.

Lockout - The placement of a device in accordance with an established procedure to ensure the equipment being controlled cannot be operated until the device is removed.

Logistics - This definition contains typical functions associated with the provision of logistics support used to deliver services listed in the statement of work.

Maintenance - Actions taken to ensure system longevity of the telecommunications and computing assets used to deliver the services in the statement of work.

Maintainability - The measure of the ability of an item to be retained in, or restored to, a specified condition when the maintenance is performed by personnel having specified skill levels, using prescribed procedures and resources, at each prescribed level of maintenance and repair. A characteristic of design that permits hardware to be serviced, inspected, and repaired with a minimum expenditure of maintenance resources.

Material - Property that may be consumed or expended during the performance of a contract, component parts of a higher assembly, or items that lose their individual identity through incorporation into an end-item. Material does not include equipment, special tooling, and special test equipment. (See FAR 45.101)

Material Safety Data Sheet (MSDS) - Written or printed material that provides the health and safety information about a specific item; i.e., chemical composition, physical properties, fire and explosion hazards, health hazards, reactivity data, spill or leak procedures, occupational protective measures, special precautions, and transportation data. As a minimum, contains all information required by the Occupational Safety and Health Administration (OSHA).

 Mishap - An unplanned event involving (or potentially involving) injury or death to persons, damage to or loss of property or equipment, or mission failure; categorized (in accordance with NPR 8621.1) as follows:

 (a) **Close Call.** An undesirable and unexpected event resulting in no personal injury or illness, personal injury or illness requiring only first aid, and/or minor damage (of less than \$1,000) but with potential for causing a more serious mishap (see below) or negative mission impact.

 (b) **Type A Mishap.** A mishap causing death, hospitalization (within 30 days from the same mishap) of three or more persons for other than observation, and/or damage to equipment or property resulting in a loss of \$1,000,000 or more*.

(c) **Type B Mishap.** A mishap resulting in permanent disability to one or more persons, inpatient hospitalization of one or two persons, and/or property damage or mission failure resulting in a loss of \$250,000 or more but less than \$1,000,000*.

(d) **Type C Mishap.** A mishap causing occupational injury or illness that results in a case involving day(s) away from work and/or damage to equipment or property or mission failure resulting in loss of \$25,000 or more but less than \$250,000*.

(e) **Type D Mishap.** A mishap consisting of personal injury requiring medical treatment of more than first aid but without any property damage or mission failure costing \$1,000 or more but less than \$25,000. (Personal occupational hearing loss in excess of 25 decibels in either ear is classified as an incident.)

* Mishaps resulting in damage to aircraft, space hardware, or ground support equipment that meet these criteria are included, as are test failures in which the damage was unanticipated.

Moves, Adds or Changes (MAC) – A Request to move, add to or change a service. It is a type of work order.

National Institute of Standards and Technology (NIST) – An organizational element of the Department of Commerce (DOC) responsible for custody, maintenance, and development of the national standards of measurement and provision of the means and methods for making measurements consistent with those standards.

 Network Interface - The point of demarcation for outbound data (e.g., telemetry data), between a tracking complex and the NASA Integrated Services Network (NISN). Also the point of demarcation for inbound data (e.g., command data) between the user and NISN.

1	NISN Service Request (NSR) - a Request for Service initiates the NISN to provide a		
2	service that was forecasted in the PSCRD.		
3			
4 5 6	Nominal Support Requirement – The nominal timeframe in which IMCS personnel are expected to provide active, live support for services.		
7 8 9		Primary Responsibility (OPR) - An organization with overall responsibility velopment of, and subsequent changes to, a designated documentor function.	
10 11 12	On-Time Launch - A launch, which takes place within the established launch window on the date published on the Range schedule.		
13 14 15 16	Operations Analysis - This definition contains typical functions associated with the assessment of the current performance of the ground systems and the impacts of additional loading to those services as listed in the statement of work. These functions include:		
17 18 19	(a)	End-to-end system performance monitoring, recommending appropriate changes to eliminate potential system bottlenecks and overloads; and short-term and long-term trend analysis.	
20	(b)	Risk analysis and management.	
21 22	(c)	Assessment of technical, schedule, and cost factors involved with the operation of systems.	
23 24 25	(d)	Analysis and evaluation of tracking resource, spacecraft, and telecommunications parameters and recommending ground system configurations to improve link margins.	
26 27 28	(e)	System operability and review of operation procedures, recommending or effecting changes to minimize data, voice, or video outages.	
29 30 31 32 33 34	and UDS I meet the recommitme	has Directive (OD) - The OD is prepared by 45 SW according to 45 SWI 99-101 Handbook and is the official support that will be provided the Range User to equirements of the OR. The OD provides (1) a basis for test scheduling, (2) a ent of Range support, (3) support operating instructions, and (4) a briefing for supervisory persons.	
35 36 37 38 39	Operations Directive Annex - The OD annex is prepared by the 45 SW and is the official 45 SW answer to the OR annex. The OD annex is a complete detailed description of the support that will be provided the Range User to meet the requirements in the OR annex.		
40 41	_	ns Requirements (OR) - The OR is prepared by the Range User as outlined in 0-101 and is a complete detailed description of the requirements necessary to	

accomplish a specific test or series of tests in the program described in the PRD. When

support is required from another Range, the appropriate number of copies is added to the distribution page of the OR by the Program Support Management Division.

Operations Requirements Annex - The OR annex is prepared by the Range User and is a complete detailed description of the requirements necessary to accomplish a subsystem test or a special minor test related to the overall test in the OR. Reference to the OR may be made in the annex. An annex may not refer to another annex. The OR annex may be submitted with the OR at any time subsequent to submission of the OR.

- **Operations Requirements Extract (ORE)** The ORE is prepared by the 45 SW and is a complete detailed description of the requirements in the OR to be supported by another national or service Range.
- **Out-of-Family** Out-of-family work is any changes that affect the system baseline design and/or system architecture. An architecture change is the addition of new capability, change in system topology, system modification, or system software change. Changes in topology include first-time provision of a standard service to a facility.

Performance Work Statement (PWS) - The performance-based description of tasks or services to be performed and/or end products to be delivered by the contractor. The PWS also defines facilities, property, and support to be provided to the contractor by the Government.

Photo Acquisition Disposition Document (PADD) - A plan that is generated by the contractor for each operation or minor support test. The document identifies all requirements and provides internal instructions to other DOD technical multi-media support functional technicians on how to plan, meet, and execute support.

Program Planning, Budget and Execution (PPBE) Plan— An annual plan developed by the Government, which provides budget and workforce estimates, along with an outline of the work on which the estimates are based. Generally the plan covers the succeeding five years with the first year having a monthly cost phasing plan and the remaining four years having only annual estimates.

Program Requirements Document (PRD) - The PRD is prepared by the Range user, according to 45 SWI 99-101, 45 SW Mission Program Documents, and/or is a combination of more than 90 standard forms common to all national and service ranges. The PRD is a detailed description of the requirements of the total program and is used for Range support planning.

Program Support Plan (PSP) - The PSP is prepared by the 45 SW according to the UDS Handbook, Document 501-89, and 45 SWI 99-101, and is the official answer to the PRD. The PSP outlines the planned support that will be provided the Range User to meet the requirements in the PRD.

Project Manager (PM) - The Government technical representative having overall responsibility for budgeting for and funding contract support, defining technical

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1 2	requirements, identifying priorities, and providing this information to the CO. The contractor's counterpart is responsible for the overall management and coordination of
3 4	the contract and acts as the central point of contact for the Government.
5	Property Administrator (PA) - An appointed representative of the CO authorized to
6	administer contract provisions pertaining to Government property.
7	
8	Property Control Program - The contractor's written policies and procedures for
9	controlling each type of Government asset in its possession in accordance with FAR Part
10	45 and the provisions of the contract.
11	
12	Quality Assurance (QA) - A planned and systematic pattern of all actions necessary to
13	provide confidence that adequate technical requirements are established; products and
14	services conform to established technical requirements; and satisfactory performance is
15	achieved.
16	Quality Control (QC) These actions taken by a contractor to control the maduation of
17 18	Quality Control (QC) - Those actions taken by a contractor to control the production of outputs to ensure that they conform to the contract requirements of timeliness, accuracy,
19	appearance, completeness, consistency, and conformity to appropriate standards and
20	specifications.
21	specifications.
22	Range Users - Elements of the Department of Defense (DoD), other federal agencies, or
23	civilian organizations authorized to use Range resources.
24	
25	Real Time – An event, test, task, operation, etc. is underway at the present time rather
26	than at some point in the future.
27	
28	Requirements Document - A document that specifies the requirements that are to be
29	met.
30	Risk - The probability, severity, and uncertainties of experiencing an undesired event.
31 32	Risk Assessment - An engineering and operational analysis which identifies risks, failure
33	modes and potential hazards.
34	modes and potential nazards.
35	Root Cause - A fundamental deficiency that results in a nonconformance and must be
36	corrected to prevent recurrence of the same or a similar nonconformance.
37	•
38	Rough Order of Magnitude (ROM) - An estimate to accomplish a configuration change
39	or a project or task(s) based on minimal available data.
40	
41	Safety – Freedom from those conditions that could cause injury to, or the death of,
42	personnel and/or damage to, or the loss of, equipment or property.
43	

IMCS Draft RFP Page 3-10 of 3-13 06/27/2007

Scheduling - This definition contains typical functions associated with the commitment of resources. These functions include:

1 Scheduling of resources needed to provide a service. (a) 2 (b) Providing notification to customers of service availability and providing resolution of any conflicts. 3 4 Maintain schedule and resource utilization history databases. (c) 5 6 **Sensitive Information** – Unclassified information that requires protection due to the risk 7 and magnitude of loss or harm that could result from the inadvertent or deliberate 8 disclosure, alteration, or destruction of information. This includes information for which 9 improper use or disclosure could adversely affect the ability of an agency to accomplish 10 its mission, proprietary information, records about individuals requiring protection under 11 the Privacy Act, and information not releasable under the Freedom of Information Act. 12 This is not the same as the National Security Agency (NSA) term "Sensitive, But 13 Unclassified Information." 14 15 **Service -** The performance of all activities necessary to deliver customer products. 16 17 **Service Request** – A request made by a customer asking a service. 18 19 **SpecsIntact** (**Specifications Kept In Tact**) - An automated specification processing 20 system that uses standard master guide specifications for the preparation of facility 21 construction project specifications. 22 23 Standards and Limits - A file containing the upper and lower bounds of the system 24 configuration and system performance parameters. 25 26 **State-of-the-shelf** - Technology items that are proven and readily available for purchase. 27 Generally these items are considered mainstream versus state-of-the-art. 28 29 **Subsystem -** A collection of hardware, software and procedures, which perform an 30 identifiable task in support of one or more systems. 31 32 Supervisory Control and Data Acquisition (SCADA) - SCADA systems are generally 33 used to perform data collection and control at a higher level. Some SCADA systems only 34 monitor without doing control, these systems are still referred to as SCADA systems. An 35 example would be a system that monitors equipment room parameters such as 36 temperature, under floor water, or power and initiates an action or auto-dials phone

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Support Products - Sets of data containing time-ordered parameters used to configure link equipment. These data sets consist of telemetry, radiometric, antenna pointing, and command parameters. Support products also include software support files containing project files, configuration files, site unique files, and equipment setup tables.

numbers when preset limits are exceeded.

42 43

1 2	Surveillance Plan - The plan defining the process, reviews, and documentation used to monitor technical performance metrics and to report the cause, impact, and corrective
3 4	action required to resolve variations form contracted technical performance.
5	Sustaining Engineering - Sustaining engineering includes changes and modifications to
6 7	systems to provide additional service capacity, add features to software, reduce operational risk, replace obsolete hardware and software, or consolidate services
8	
9	System - Any combination of components, assemblies, or sets joined together to perform
10	a specific operational function(s).
11	
12	System Assurance Analysis (SAA) - An integrated reliability and safety analysis that
13	combines criticality assessment, Failure Modes and Effects Analysis (FMEA), Single
14	Failure Point Analysis (SFPA), Critical Items List (CIL), and Hazard Analysis (HA) into
15	one document.
16	
17	Systems Engineering - Systems engineering is the management of engineering processes
18 19	to ensure end-to-end integration and improve service delivery
20	System Maintainability - The implementation of a design which improves the
21	identification of a failure and eases the replacement of the faulty assembly.
22	identification of a failure and cases the replacement of the faulty assembly.
23	System Operability - The implementation of the human-machine interface, which
24	minimizes operator errors and equipment setup time.
25	
26	Tagout - The placement of a device in accordance with an established procedure to
27	ensure the equipment being controlled cannot be operated until the device is removed
28	
29	Test Team – A collection of personnel communicating via OIS, telephones, and radios to
30	accomplish a processing, launch, or landing function. There are test teams at KSC, JSC,
31 32	GSFC, MSFC, MILA, and CCAFS.
33	Testing - The process by which the presence, quality, performance or genuineness is
34	determined
35	
36	Tool - Hardware, firmware or software that serves as an aid to accomplishing a task.

- **Training** This definition contains typical functions associated with ensuring the
- 2 preparation of personnel to perform the functions necessary to provide the services as
- 3 listed in the statement of work. These functions include:
- 4 (a) Customer training on applications or services.
 - (b) Certification of personnel on operational consoles.
- 6 (c) Maintenance and operations training.
 - (d) Mission-specific training.

Universal Documentation System (UDS) - The Range Commanders' Council (RCC) Handbook 501-89 describes mandatory documentation to be used by the National Ranges and their users. The system provides a formal, common method of language and format for stating requirements and preparing support responses. The UDS encompasses documentation generated by user agencies, which state program, mission or test requirements and those response documents generated by the support agencies to define the support to be provided.

Validation Testing - The testing of a newly developed or modified asset (system, subsystem, assembly, subassembly or lowest replaceable element), to ensure that all requirements of the specification have been met. Additionally, this can mean testing done for an item to prove or certify that it is ready to support.

Verification Testing - The testing of a newly developed or modified asset (system, subsystem, assembly, subassembly or lowest replaceable element), to ensure that of the asset conforms to the specification.

Verify – To confirm the accomplishment of an operation, either by witnessing the actual operation or by inspecting the completed operation, depending on the nature of the work being performed.

Waiver/Deviation – Granted use or acceptance of an article that does not meet specified requirements. A waiver is given or authorized after the fact; a deviation is given or authorized before the fact.

Appendix 4 Applicable Policies and Procedures

For

Information Management and Communications Support (IMCS)

IMCS Draft RFP 06/27/2007

The contractor shall comply with the following documents in performance of the IMCS contract:

NASA DIRECTIVES

Document #	Title
NPD 1040.4A	NASA Continuity of Operations
NPD 1382.17G	NASA Privacy Policy
NPD 1383.1B	Release and Management of Audiovisual Products and
	Services
NPD 1383.2A	NASA Assistance to Non-Government, Entertainment-
	Oriented Motion Picture, Television, Video and
	Multimedia Productions/Enterprises, and Advertising
NPD 1420.1	NASA Forms Management
NPD 1440.6G	NASA Records Management
NPD 1490.1G	NASA Printing, Duplicating, and Copy Management
NPD 1600.2D	NASA Security Policy
NPD 1820.1B	NASA Environmental Health Program
NPD 2190.1A	NASA Export Control Program
NPD 2200.2B	Management of NASA Scientific and Technical
	Information
NPD 2530.1E	Monitoring or Recording of Telephone or Other
	Conversations
NPD 2540.1F	Personal Use of Government Office Equipment Including
	Information Technology
NPD 2570.5D	NASA Electromagnetic (EM) Spectrum Management
NPD 2800.1A	Managing Information Technology
NPD 2810.1C	NASA Information Security Policy
NPD 2820.1C	NASA Software Policy
NPD 4100.1A	Supply Support and Material Management Policy
NPD 4200.1B	Equipment Management
NPD 4300.1B	NASA Personal Property Disposal Policy
NPD 6000.1B	Transportation Management
NPD 8500.1	NASA Environmental Management
NPD 8700.1C	NASA Policy for Safety and Mission Success
NPD 8710.1D	Emergency Preparedness Program
NPD 8710.2D	NASA Safety and Health Program Policy
NPD 8710.5C	NASA Safety Policy for Pressure Vessels and Pressurized
	Systems
NPD 8720.1B	NASA Reliability and Maintainability (R&M) Program
	Policy
NPD 9501.1H	NASA Contractor Financial Management Reporting
	System
NPD 9501.2D	NASA Contractor Financial Management Reporting

NPR 1040.1	NASA Continuity of Operations (COOP) Planning Procedure Requirements
NPR 1441.1D	NASA Records Retention Schedules
NPR 1450.10D	NASA Correspondence Management and Communications Standards and Style
NPR 1600.1	NASA Security Program Procedural Requirements
NPR 1620.1	NASA Security Procedural Requirements
NPR 2190.1	NASA Export Control Program
NPR 2200.2B	Requirements for Documentation, Approval, and
	Dissemination of NASA Scientific and Technical
	Information
NPR 2210.1A	External Release of NASA software
NPR 2570.1	NASA Radio Frequency (RF) Spectrum Management
	Manual
NPR 2800.1	Managing Information Technology
NPR 2810.1A	Security of Information
NPR 2820.1C	NASA Software Policy
NPR 4100.1D	NASA Materials Inventory Management Manual
NPR 4200.1D	NASA Materials Inventory Management Manual
NPR 4200.2B	Equipment Management Manual for Property Custodians
NPR 4300.1A	NASA Personal Property Disposal Procedural
	Requirements
NPR 6000.1G	Requirements for Packaging, Handling and Transportation
	for Aeronautical and Space Systems, Equipment, and
	Associated Components
NPR 6200.1B	NASA Transportation and General Traffic Management
NPR 7120.5C	NASA Program and Project Management Processes and
	Requirements
NPR 7120.7	NASA Institutional Infrastructure and Information
	Technology - Program and Project Management
NDD 7100 11	Requirements
NPR 7123.1A	NASA Systems Engineering Processes and Requirements
NPR 8000.4	Risk Management Procedural Requirements
NPR 8553.1	NASA Environmental Management System (EMS)
NPR 8621.1B	NASA Procedural Requirements for Mishap and Close
NDD 0515.0	Call Reporting, Investigating, and Recordkeeping
NPR 8715.2	NASA Emergency Preparedness Plan Procedural
NDD 0715 3D	Requirements
NPR 8715.3B	NASA General Safety Program Requirements
NPR 8735.1A	Procedures for Exchanging Parts, Materials, and Safety
	Problem Data Utilizing the Government-Industry Data
NDD 0725 2 A	Exchange Program and NASA Advisories
NPR 8735.2A	Management of Government Quality Assurance Functions
	for NASA Contracts

NASA STANDARDS

Document #	Title
NASA-GB-8719.13	NASA Software Safety Guidebook
NASA-STD-2202	Software Formal Inspections Standard
NASA-STD-2801	NASA Strategy for Windows NT Domain
NASA-STD-2802	Intracenter Networking Architecture, Standards and
	Products
NASA-STD-2803	Intranet Strategy
NASA-STD-2804	Minimum Interoperability Software Suit
(Rev.: K)	
NASA-STD-2805	Minimum Hardware Configurations
(Rev.: K)	
NASA-STD-2806	Network Protocol
NASA-STD-2807	The NASA Directory Service Architecture, Standards, and
	Products
NASA-STD-2808	Interoperability Profile for NASA E-Mail Clients
NASA-STD-2810	UNIX Interoperability
NASA-STD-2812	Intranet Functional Requirements
NASA-STD-2813	NASA Firewall Strategy, Architecture, Standards and
	Products
NASA-STD-2814A	NASA Integrated Information Technology Architecture
NASA-STD-2815	NASA Electronic Messaging Architecture, Standards and
	Products
NASA-STD-2817	Computer-Aided Engineering, Design and Manufacturing
	Data Interchange Standard
NASA-STD-2818	Digital Television Standards for NASA
NASA-STD-2819	Collaborative Tools Standards
NASA-STD-2820	Encryption and Digital Signature Standards
NASA-STD-5005	Ground Support Equipment
NASA-STD-8719.11	NASA Safety Standard for Fire Protection
(Rev.: Baseline (Change	
3))	
NASA-STD-8719.13	NASA Software Safety Standard
NASA-STD-8719.7	Facility System Safety Guidebook
NASA-STD-8719.9	Standard for Lifting Devices and Equipment
NASA-STD-8729.1	Planning, Developing, and Managing an Effective
(Rev.: Baseline)	Reliability and Maintainability (R&M) Program
NASA-STD-8739.5	Fiber Optic Terminations, Cable Assemblies, and
22.4 6.4 6.5 6.5 6.5	Installation
NASA-STD-8739.8	Software Assurance Standard

KSC DIRECTIVES

Document #	Title
KNPD 1150.24	KSC Councils, Boards and Working Groups
(Rev.: BASIC-1)	
KNPD 1216.1	Smoke-Free Workplace
(Rev.: A)	•
KNPD 1420.1	KSC Forms Management Program
(Rev.: BASIC-1)	
KNPD 1440.1	KSC Records Management and Vital Records Program
(Rev.: B)	
KNPD 1490.2	Printing, Duplication, Micrographics and Office Copier
(Rev.: BASIC-1)	Services
KNPD 1590.2	KSC Bulletin, Bulletin Boards & Hallway Displays
(Rev.: BASIC-1)	
KNPD 1600.3	Use of Alcoholic Beverages on Kennedy Space Center (KSC) Property
KNPD 1800.1	Environmental Health Program
(Rev.: BASIC-2)	
KNPD 1800.2	KSC Hazard Communication Program
(Rev.: A-1)	
KNPD 1810.1	KSC Occupational Medicine Program
(Rev.: BASIC-1)	
KNPD 1860.1	KSC Radiation Protection Program
(Rev.: BASIC-1)	
KNPD 2240.1	KSC Library and Archives
(Rev.: BASIC-1)	
KNPD 2810.1	Appropriate Use of NASA Information Technology (IT)
(Rev.: BASIC)	Resources
KNPD 3792.1	KSC Employee Assistance Program (EAP) Policy
(Rev.: BASIC-1)	
KNPD 6000.2	Commercial Transportation Corridors
(Rev.: BASIC)	
KNPD 8500.1	KSC Environmental Management
(Rev.: BASIC)	
KNPD 8700.1	Safety and Mission Assurance Policy Directive
(Rev.: A-1)	
KNPD 8719.9	Examination and Licensing of KSC Operators of Special,
	Heavy Equipment, Facility Cranes or Hoists
KNPD 9501.1	Contractor Financial Management Reporting System
(Rev.: A)	
KNPD 9501.2	KSC Earned Value Management
(Rev.: A-1)	
KNPR 1040.3 (Rev.:	Continuity of Operations Planning (COOP)
BASIC)	
KNPR 1600.1	KSC Security Procedural Requirements

IZNIDD 1020 2	VCC II i I D D.
KNPR 1820.3 (Rev.: BASIC-1)	KSC Hearing Loss Prevention Program
KNPR 1820.4	KSC Respiratory Protection Program
(Rev.: A)	Roc Respiratory Protection Program
KNPR 1840.19	KSC Industrial Hygiene Program
(Rev.: A)	Noe maastrar Hygiene Hogram
KNPR 1860.1	KSC Ionizing Radiation Protection Program
(Rev.: BASIC-1)	TIGO TOMEZING PARAMETER TOCOMON Trogram
KNPR 1860.2	KSC Nonionizing Radiation Protection Program
(Rev.: BASIC-1)	
KNPR 1870.1	KSC Sanitation Program
(Rev.: BASIC-1)	
KNPR 2540.1	KSC Telecommunications Services
(Rev.: BASIC)	
KNPR 2570.1	KSC Radio Frequency Spectrum Management
(Rev.: BASIC)	
KNPR 4000.1	Supply and Equipment System Manual
(Rev.: BASIC)	
KNPR 6000.1	Transportation Support System
(Rev.: BASIC)	
KNPR 8040.1	KSC Configuration Management Procedural Requirements
(Rev.: BASIC)	
KNPR 8040.4	International Space Stations/Payload Processing
(Rev.: A-2)	Configuration Management Procedural Requirements
KNPR 8040.5	Shuttle Processing Level III Configuration Control Board
(Rev.: BASIC)	Procedural Requirements
KNPR 8500.1	KSC Environmental Requirements
(Rev.: A)	
KNPR 8715.3	KSC Safety Practices Procedural Requirements
(Rev.: C-1)	
KNPR 8715.4	KSC Lockout/Tagout Program Procedural Requirements
KNPR 8715.5	KSC Personal Protective Equipment (PPE) Program
	Procedural Requirements
KNPR 8720.1	KSC Reliability, Maintainability, and Quality Assurance
(Rev.: BASIC-1)	Procedural Requirements
KNPR 8730.2	Quality Assurance Procedural Requirements
(Rev.: BASIC)	
KNPR 8830.1	Facilities and Real Property Management Procedural
(Rev.: A-1)	Requirements
KDP-KSC-P-1280	Government Printing Process
KDP-KSC-P-1311	Major, High Impact and Minor Moves
KDP-KSC-P-1334	KSC Network Scan Process

KDP-KSC-P-1376	Information Technology (IT) directorate New Work Flow
KDP-KSC-P-1451	NASA Safety Reporting System
KDP-KSC-P-1473	KSC Mishap Reporting and Investigating
KDP-KSC-P-1474	Mishap Investigation Board
KDP-KSC-P-1537	Document Release Authorization (DRA) Process
KDP-KSC-P-1538	NASA KSC Specifications and Standards Development
	Process
KDP-KSC-P-1833	KSC Web Site Development and Maintenance
KDP-KSC-P-1836	Removing Data and Licensed Software from Information
	Technology (IT) Storage Devices
KDP-KSC-P-1878	Control and Use of Internal and External Documents
KDP-KSC-P-1881	NASA Business Records Management
KDP-KSC-P-1899	Obtaining Graphics Services
KDP-KSC-P-2111	Reporting Close Calls
KDP-KSC-P-2117	Deviating from KSC Maximum Work Time (MWT)
	Requirements
KDP-KSC-P-2123	Reporting of Unsafe and/or Unhealthful Conditions or Acts
KDP-KSC-P-2139	Advance notification of Workforce Reductions
KDP-KSC-P-2613	KSC Export Process
KDP-KSC-P-3213	KSC Web Site Registration and Approval
KDP-KSC-P-3313	ODIN Waiver Process
KDP-KSC-P-3320	Telecommunications Headset Acquisition Process
KDP-KSC-P-3323	Non-ODIN Printers Vulnerability Process
KDP-KSC-P-3717	Foreign National Visitor Badging and Access

INFORMATION TECHNOLOGY SECURITY DIRECTIVES

National Institute of Standards and Technology (NIST) Special Publications (SP)

Document #	Title
SP-800-18	Guide for Developing Security Plans
SP-800-26	Security Self-Assessment Guide for IT Systems
SP-800-30	Risk Management Guide
SP-800-34	Contingency Planning Guide for IT System
SP-800-37	Guide for the Security Certification & Accreditation of Federal Information Systems
SP-800-40	Patch and Vulnerability Management
SP-800-53	Recommended Security Controls for Federal Information Systems
SP-800-60,	Guide for Mapping Types of Information to Security
Vol. I & II	Categories
SP-800-64	Security Considerations in the Information system
	Development Life Cycle
SP-800-70	Security Configuration Checklists Program
SP-800-83	Malware Incident Prevention and Handling
SP-800-85A	PIV Middleware and PIV Card Application Conformance
	Test
SP-800-86	Computer and Network Data Analysis: Applying Forensic
	Techniques to Incident Response
SP-800-87	Codes for the ID of Federal and Federally-Assisted Orgs
SP-800-97	Establishing Wireless Robust Security Networks A Guide
	to IEEE 802.11i
SP-800-94	Guide to Intrusion Detection and Prevention Systems
	(IDPS)
SP-800-78	Cryptographic Algorithms and Key Sizes for Personal
	Identity Verification
SP-800-72	Guidelines on PDA forensics
SP-800-67	Recommendation for the Triple Data Encryption
	Algorithm (TDEA) Block Cipher

Federal Information Processing Standards (FIPS)

Document #	<u>Title</u>
FIPS PUB 140-2	Security Requirements for Cryptographic Modules
FIPS PUB 197	Advanced Encryption Standard (AES)
FIPS PUB 199	Standards for Security Categorization of Federal IT
	Systems
FIPS PUB 200	Minimum Security Requirements for Federal Information
	and Information Systems
FIPS PUB 201	Personal Identity Verification (PIV) of Federal Employees
	and Contractors

NASA IT Requirements (NITRS)

Document #	<u>Title</u>
NITR 2810-1	Wireless Requirements
NITR 2810-2	Risk Management and Security Plans
NITR 2810-3	Internet Publishing Content Guidelines
NITR 2810-4	Information Technology (IT) system Security Certification
	and Accreditation and Authorizing Systems for Operation
NITR 2810-5	NASA Information Technology (IT) Security Patch
	Management System

NASA IT Security Standard Operating Procedures (SOPs)

Document #	<u>Title</u>
ITS-SOP-0002	NASA's Target Vulnerability Selection Procedures
ITS-SOP-0003	NASA's IT Security Emergency After-Hours Test
	Procedures
ITS-SOP-0004	NASA's Information Technology Requirement (NITR)
	Procedures
ITS-SOP-0005-B	Procedure for Completing a NASA Information
	Technology (IT) Security Program or System Assessment
ITS-SOP-0006-C	Procedure for Extending an IT System Authorization to
	Operate
ITS-SOP-0007	NASA Master and Subordinate System Security Plan
	Numbering Schema
ITS-SOP-0008	Procedures for Initiating and Managing Targeted
	Monitoring of Electronic Data
ITS-SOP-0009	Procedures for Updating and Managing NASA's Plan of
	Actions and Milestones
ITS-SOP-0012	NASA Patch Selection & Reporting Procedures
ITS-SOP-0014	Procedures for Approving Changes to NASA's Information
	Technology Baseline
ITS-SOP-0015	Procedures for Agency IT Security Incident Classification
	and Reporting
ITS-SOP-0016-B	Subordinate IT Security Plan Template, Requirements,
	Guidance and Examples
ITS-SOP-0017	IT Security Penetration Test Plan and Rules of
	Engagement
ITS-SOP-0018	Contractor IT Security Program Plan Procedures
ITS-SOP-0019-B	Procedure for FIPS-199 Information Categorization for
	NASA IT Systems
ITS-SOP-0020	Wireless Local Area Network Implementation
ITS-SOP-0021	Network Security Vulnerability Scanning
ITS-SOP-0022	Determining Cost Impact of Information Technology
	Security Incidents
ITS-SOP-0030B	IT System Certification and Accreditation Process for FIPS
	199 Moderate and High Systems

ITS-SOP-0031B	IT System Certification and Accreditation Process for FIPS
	199 Low Systems
ITS-SOP-0032	Master IT Security Plan Template, requirements, Guidance
	and Examples
SOP No. CIOB-01	Assignment of IT Actions

Office of Management and Budget Memorandums

Document #	Title
OMB M-06-15	Safeguarding Personally Identifiable Information
OMB M-06-16	Protection of Sensitive Agency Information
OMB M-07-16	Safeguarding Against and Responding to the Breach of
	Personally Identifiable Information

AIR FORCE PUBLICATIONS

Document #	<u>Title</u>
AFI 21-101	Aircraft and Equipment Maintenance Management
AFI 32-9002	Use of Real Property Facilities
AFI 33-103	Communications and Information – Requirements
	Development and Processing
AFI 33-117	Multimedia (MM) Management
AFI 91-204	Safety Investigations and Reports
AFSPCMAN 91-710 V6	Ground and Launch Personnel, Equipment, Systems, and
	Materials Operations Safety Requirements

45th SPACE WING PUBLICATIONS

Document #	<u>Title</u>
45SW 13-206	Eastern Range Scheduling
45SW 33-104	Multimedia (MM) Management
45SWI40-201	45the Space Wing Instruction 40-201 Radiation Protection
	Program

RANGE OPERATING INSTRUCTIONS

Document #	<u>Title</u>
ROI 01-01	Range Operating Instructions
ROI 01-01-01	Site Verification of ROI Mailing
ROI 01-02	Reacceptance Procedures for Range Instrumentation
ROI 01-03	Station Designators
ROI 01-04	ER Range Conference Nets
ROI 01-05	Operational Configuration Control Philosophy
ROI 01-06	Range Time Standardization
ROI 01-07	Minor Range Support

ROI 01-08	Downgrading of Scheduling or Launch Information After
DOI 01 10	DOD or NASA Release
ROI 01-10	Coordination with Range Users During Operations
ROI 01-12	Visits to Range Instrumentation Sites
ROI 01-13	Instrumentation Coverage Plans
ROI 01-14	Requesting Emergency Maintenance Assistance for
	Communications, Electronic, Meteorological Equipment
ROI 01-15	Processed Data Delivery Schedules
ROI 01-16	RTSC Instrumentation Launch Planning Process
ROI 01-19	Orbital Network Duties and Responsibilities During
	Unmanned Space Flights
ROI 01-20	Range Scheduling Operation Notification Responsibility
ROI 01-21	System Access
ROI 01-23	Scheduling Downtime for Maintenance
ROI 01-24	Range Turnaround Time
ROI 01-25	Relaying Countdown and Operations Information
ROI 01-29	Range Control Officer (RCO) Responsibilities
ROI 01-30	Expedite Operations Requirements Processing
ROI 01-32	Range Instrumentation Systems Controllers
ROI 01-33	Inflight Advisories of Vehicle Flight Performance
ROI 01-36	Network Operating Procedures During Manned Space
	Flights
ROI 01-39	Scheduling of Prelaunch Instrumentation Checkout
11010109	Operations and Calibration Operations
ROI 01-40	Control and Operation of Instrumentation Nets
ROI 01-44	Use of Unaccepted Equipment, Systems, or Configurations
ROI 01-45	Range Reconfiguration Time for Navy Missions
ROI 02-02	Range Countdown
ROI 02-04	Operations Control Instructions
ROI 03-01-01	Operation Logs
ROI 03-01-04	Reporting Range Instrumentation Status During an
KO1 03 01 04	Operation
ROI 03-01-05	Launch Performance Analysis
ROI 03-01-03	Quick Look Operation Report
ROI 03-02-10	Pre-Operational Instrumentation Checks
ROI 03-03-04	Eastern Range Equipment Status Reporting System
ROI 03-04	
ROI 03-04	Notification of Weather Warnings and Weather Advisories Penerting Operation Termination/Extension Status
ROI 03-05 ROI 09-01	Reporting Operation Termination/Extension Status
KOI 09-01	Handling of Film Products for DOD Launch Operations Requiring Special Handling
ROI 09-02	Handling of Film Products for DOD Launch Anomalies
	During Classified Operations
ROI 12-01-14	Optical Tracking Central Computer (OTCC) Checkout
	Operating and Reporting Procedures
ROI 12-04-01	Manual Audit Trails for Instrumentation Computers

ROI 14-08-01	Closed-Circuit Television Unit Operating Procedures
ROI 14-08-02	Range Safety Video and Vertical Wire Skyscreen Site
	Designations

OTHER POLICIES AND PROCEDURES

Document #	<u>Title</u>
	Americans with Disabilities Act of 1990, as amended
	Federal Acquisition Regulations (FAR)
	NASA FAR Supplement
	ISO 14000 Standards
	The Gregg Reference Manual
	Roget's Thesaurus
	Merriam Webster's Collegiate Dictionary
	U.S. Government Printing Office Style Manual (2000
	Edition)
	NASA Chief Information Officer (CIO) Executive Notices
	IT Security Implementation Guide
	Library of Congress Classification Schedules
29 CFR Part 1910	Occupational Safety and Health Standards
29 CFR Part 1925	Safety and Health Standards for Federal Service Contracts
29 CFR Part 1926	Safety and Health Regulations for Construction
29 CFR Part 1960	Basic Program Elements for Federal Employees OSHA
29 U.S.C. § 794(d)	Section 508 of the Rehabilitation Act of 1973, as amended
7 CFR Part 1755.890	RUS Specification for Filled Telephone Cables with
	Expanded Insulation
7 CFR Part 1755.900	RUS Specification for Filled Fiber Optic Cables
79K28125	Fiber Optic Cable Specification for KSC
AACR2	Anglo-American Cataloguing Rules
AFSPCMAN 91-710	Range Safety Manual (Volumes 1-7)
ANSI/ISO/ASQ Q9001-	ISO 9000 Standards
2000	
CSP 03-01-002 [TED 8.4]	Voluntary Protection Programs (VPP): Policies and
	Procedures Manual & Directive
Executive Order (EO)	Prescribing Regulations Establishing Minimum Standards
10290	for the Classification Transmission and Handling of
	Official Information Which Requires Safeguarding in the
	Interests of Security
EO 10995	Assigning Telecommunications Management Functions
EO 12046	Relating to the Transfer of Telecommunications Functions
EO 12139	Exercise of Certain Authority Respecting Electronic
	Surveillance
EO 12148	Federal Emergency Management
EO 12356	National Security Information
EO 12472	Assignment Of National Security and Emergency

	Dronoundness Telecommunication Functions
EO 12221	Preparedness Telecommunication Functions
EO 13231	Critical Infrastructure Protection in the Information Age
EO 13407	Public Alert and Warning System
EO 13423	Strengthening Federal Environmental, Energy, and
	Transportation Management
GP-435 Vol. 1 & 2	Engineering Drawing Practices
HSPD-12	Homeland Security Presidential Directive 12
ISO 9001	Quality Management Systems - Requirements
JDP-KSC-P-3014	Generic Emergency Procedures Document (EDP)
(Rev.: C)	
JHB 2000 (Rev.: D)	Consolidated Comprehensive Emergency Management Plan
KCA 1308	Joint Operating Procedure (JOP) Between 45 th Space Wing (45 SW) and the John F. Kennedy Space Center (NASA-KSC) for Safety
KCA-1323	Joint Operating Procedure (JOP) Between 45 th Space Wing (45 SW) and NASA-KSC for Electromagnetic Laboratory (EML) Services
KPL-PLN-50007	KSC Facility Contamination Control Requirement Plan
KSC-DE-512-SM	Facility, System, and Equipment General Design
	Requirements
KSC-DF-107	Technical Document Style Guide
KSC-PLN-1912	KSC Environmental Management Plan
KSC-PLN-3302 (Rev.: D)	Information Technology (IT) Security Awareness and Training Plan
KSC-STD-E-0021	Telecommunications Premises Distribution Systems, Design of, Standard for (KSC)
NASA Communication	Communication Material Review Team (CMRT) Policy
Material Review System Website	Guidelines
NASA Communication Material Review System Website	NASA Logo/Insignia Guidelines
NASA-SP-2005-7602 (Rev. 1)	NASA Publications Guide for Authors
NASA-SP-7084	Grammar, Punctuation, and Capitalization; A Handbook for Technical Writers and Editors
NF-1676	NASA Scientific and Technical Information (STI)
	Document Availability Authorization (DAA)
NSTS 07700, Volume V	Information Management Requirements
(Change No. 167)	
NSTS 08117	Requirements and Procedures for Certification of Flight
(Change No. 84)	Readiness
NSTS 22206	Requirements for Preparation and Approval of Failure
(Change No. 39)	Modes and Effects Analysis (FMEA) and Critical Items List (CIL)

NSTS 22254	Methodology for Conduct of Space Shuttle Program
(Change No. 17)	Hazard Analyses
NSTS 5300.4 (1D-2)	Safety, Reliability, Maintainability and Quality Provisions
(Change No. 9)	for the Space Shuttle Program
SF-298	Report Documentation Page

The following KSC Shelf-Master SPECSINTACT specifications should be used when performing work at KSC:

Document #	<u>Title</u>
16700	Communications Termination Blocks and Patch Panels
16701	Communication/Equipment Room Fittings
16702	Communications Optical Fiber Backbone Cabling
16703	Communications Copper Backbone Cabling
16704	Communications Horizontal Cabling
16705	Clock systems
16725	Audio-Video Communications Horizontal Cabling
16801	Paging Systems
16802	Intermediate/Radio Frequency Communications Horizontal
	Cabling

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7	Appendix 5
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9	Expectations, Performance Standards,
10	and Metrics
11	
12	For
13	
14	Information Management and
15	Communications Support (IMCS)
16	
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IMCS Draft RFP 06/27/2007

Expectations, Performance Standards and Metrics

1 2 3

- This document describes expectations, performance standards and metrics for specific PWS tasks.
- 4 Additional performance metrics based upon areas of emphasis and specific task orders may be
- 5 included. The existence and use of these tables in no way relieves the contractor of the obligation

6 to perform all PWS elements and delineated tasks.

8

9

- Expectations, Performance standards, and metrics provided in this document will be incorporated into the final Government performance surveillance and award fee evaluation plans. The
- Government has the unilateral right to revise this document as necessary, including revisions to 10
- capture and incorporate methodologies, approaches, and levels of expected performance proposed 11 12
 - by the successful offeror and accepted by the Government.

13 14

Level 1 – Performance Standards data will be collected by the contractor, reported to and evaluated by the Government for Award Fee purposes.

15 16 17

Level 2 – Performance Standards data will be collected by the contractor, reported to and evaluated by the Government for trends and operational analysis.

18 19

For the purpose of this document the following definitions shall be used:

20 21 22

23

Expectation – The Government's and their customers' expected response and outcome by the contractor to have work completed, to have problems resolved and to have systems available under this contract.

24 25 26

Performance Standards - A representation of the actual performance levels that the contractor achieves and to what degree those achievements meet or exceed the Governments expectations.

27 28

29 **Metrics** – The resultant pictorial view of the actual work performance by contractor to meet the 30 expectations and performance standards.

Service Delivery

Service Delivery is the performance of work orders by the contractor to meet customer submitted requirements and delivery timeframes.

6

Expectation – Service Delivery

Successfully complete all customer service requests by the scheduled completion dates that are in adherence with the timeframes established on pages 6-8 (Expectation – Service Delivery Standards).

8 9

Performance Standard - Service Delivery (1)

Level 1

93.0% - 96.5% Completed by Scheduled Completion Date (SCD) – Meets Expectation

> 96.5% Completed by SCD - Exceeds Expectation

< 93.0% Completed by SCD - Does Not Meet Expectation

Level 2

97.5% Completed within 20 Working days of SCD

No more than 1% open for more than 40 Working days

11 12

10

13

Metric - Service Delivery:

14 15



In all cases, level of service shall not impact safety, mission success or major program/project milestones.

Problem Resolution

3 4 5

Problem Resolution is the measured response of the contractor's performance to provide corrective action to system, sub-system and/or component malfunction or failure.

Expectation - Problem Resolution

Successfully resolve all service problems and return to service prior to the original receipt time of the service problem on the next work day.

6

Performance Standard - Problem Resolution

Level 1

93.0-96.5% Completed within the performance standard timeframe – Meets Expectation

> 96.5% Completed within the performance standard timeframe - Exceeds Expectation

< 93.0% Completed within the performance standard timeframe - Does Not Meet Expectation

Level 2

No more that 2% open > 30 calendar days.

8 9 10

Metric - Problem Resolution:

Does Not Meet Expectation	Meets Expectation	Exceeds Expectation
93	5.0% 96	.5% 100%

System Availability

System Availability is the percent of time the system is available for use by the customer. System availability shall be reported to two or three decimal places as applicable.

6

Expectation -System Availability

The systems are to be functional, accessible and useable 24 hours per day 7 days per week and 365 days per year.

7 8

Performance Standard - System Availability

Group 1 Systems: Data Center, Cable Plant, Transmissions, Networks and Network Security Perimeter, Imaging, Voice Communications, Engineering Data Center, Library (Online), Forms

99.90 – 99.95% Availability – Meets Expectation

> 99.95% Availability - Exceeds Expectation

< 99.90% Availability - Does Not Meet Expectation

Group 2 Systems: Telephones and Timing

99.999 – 99.9995% Availability – Meets Expectation

> 99.995% Availability - Exceeds Expectation

< 99.999% Availability - Does Not Meet Expectation

9 10 11

Metric - System Availability - Group 1

12

Does Not Meet Expectation	Meets Expect	ation	Exceeds Expectation	
99.9	00%	99.95%		100%

14 15

13

Metric - System Availability - Group 2

16 17

Does Not Meet Expectation	Meets Expectation	Exceeds Expectation	
 99.99	99.9	9995%	100%

Expectation – Service Delivery Standards

Service Delivery Standards Expectation Levels are delineated below for services to be performed by the contractor. The expectation level represent the time from receipt of customer

5 request until work completion.

6

Expectation -	Expectation – Service Delivery Standards (** All metrics are in working days unless noted specifically in Hours or Minutes)							
PWS	Service Area Service		Expectation for Services Infrastructure Available <= **	Expectation for Services Infrastructure Not Available <= **				
3.0	All Services	Answer Help Desk Call	< 15 Seconds					
3.1.1	Computer	Provide server space for new application	5	20				
3.1.1	Computer	Perform software upgrade	5	20				
3.1.1	Computer	Add account with specified permissions	4 Hours					
3.1.2	Computer	Move New Applications to Production	3	20				
3.1.2	Computer	Move New Development to Production	2					
3.1.2	Computer	Priority Data Changes	1					
3.1.2	Computer	Data Changes	3					
3.1.2	Computer	Priority Minor Software Changes	ССВ					
3.1.2	Computer	Priority Medium Software Changes	CCB					
3.1.2	Computer	Priority Major Software Changes	CCB					
3.1.2	Computer	Minor Software Changes	CCB					
3.1.2	Computer	Medium Software Changes	ССВ					
3.1.2	Computer	Major Software Changes	CCB					
3.2.1	Cable Plant	Install Copper pair	2	15				
3.3.1	Transmission	Install Transmission Drop/Circuit	5	15				
3.4.1	Networks	Install Network Drop Less than 20		10				
3.4.1	Networks	Install Network Drop More than 20		15				

⁷ CCB denotes work must be completed by the CCB negotiated due date.

06/27/2007

PWS	Service Area	Service	Expectation for Services Infrastructure Available <= **	Expectation for Services Infrastructure Not Available <= **
3.4.1	Networks	Provide and activate IP address	1	\ <u>-</u>
3.4.1	Networks	Install Wireless Access points		20*
3.4.1	Networks	Install Temporary Wireless Access points	2	
3.4.2	Networks	Activation of Approved Perimeter Access Control Change Request Standard Request	5	
3.4.2	Networks Activation of Approved Perimeter Access Control Change Request Priority Request NTE 10% of total requests		2	
3.4.2	Networks	Activation of Approved Perimeter Access Control Change Request Priority Expedite Request NTE 2% of total requests	<4 Hours	
3.4.3	Networks	Install or MAC Telephone including Voicemail - Less than 20	2	10
3.4.3	Networks	Install or MAC Telephone including Voicemail - More than 20	5	30
3.4.3	Networks	Telephone MAC -no field visit required	1	
3.4.4	Networks	Issue Secure Remote Access Device	3	
3.5.1	Imaging	Install Video Monitor	5	20
3.5.1	Imaging	Install Perimeter Security Camera		20
3.5.2	Imaging	Install BCDS Drop	5	20
3.5.4	Imaging	Digital Photo Print <25 prints	1	
3.5.4	Imaging	Digital Photo Print >25 prints	3	
3.6	Graphics	Perform Photo Editing	2	
3.6	Graphics	Convert Graphic for Web Use	1	
3.6	Graphics	Produce Graphics Products	5	
3.8	Timing	Install countdown timing display	10	20

^{2 *} Not including approval time for Master Planning

PWS	Service Area	Service	Expectation for Services Infrastructure Available <= **	Expectation for Services Infrastructure Not Available <= **
3.9.1	Voice	Install Voice/PAWS Speaker	10	20
3.9.3	Voice	Replace Radio in Vehicle	2	
3.9.3	Voice	Remove Radio from Vehicle	1	
3.9.3	Voice	Install Radio at Fixed Location	10	20
3.9.3	Voice	Program Radio	1	
3.9.4	Voice	Install Voice/OIS-D End Instrument	10	20
3.9.4	Voice	Provide OIS Dub	1	
3.9.4	Voice	Provide OTV dub to DVD	2	
.9.4+3.12	Voice & Print/ Repro	Provide DVD/CD dub	2	
3.11	Publications	Provide Tech Written Document	5	
3.11	Publications	Respond to Public Inquiry- General	5	
3.12	Printing/Repro	Reproduction of Documents: <10,000 pages	2	
3.12	Printing/Repro	Reproduction of Documents: >10,000 pages (non-GPO)	5	
3.13	Engineering Data Center	Retrieve document, convert to electronic format and provide to customer	3	
3.16	Forms	Generate New Form	5	
3.17	IT Security	Initial Report of Potential IT Security Incident	<1 Hours	
3.17	IT Security	Isolate IT Security Incident	<2 Hours	
3.17	IT Security	Provide Accurate Report of IT Security Incident	1	

Appendix 6 Workload Indicators

For

Information Management and Communications Services (IMCS)

IMCS Draft RFP 06/27/2007

WORKLOAD INDICATORS											
					Annual	Workload	Quantities	by FY			
PW	S Element	Indicators	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17
	System Engineering	Systems in use	50	50	50	50	50	50	45	45	45
1.4.8	and Integration	Document Generation / Document Reviews	150	200	250	250	250	200	200	150	150
		Number of hosts supported	310	315	320	325	330	335	340	345	350
3.1.1	Data Center	Number of data center locations	5	5	4	4	3	3	3	3	3
		Number of web sites/applications	200	210	220	230	240	250	260	270	280
		Priority data changes	75	75	75	75	75	75	75	75	75
		Data changes	375	375	375	375	375	375	375	375	375
		Priority minor changes	375	375	375	375	375	375	375	375	375
3.1.2	S/W Eng	Priority medium changes	225	225	225	225	225	225	225	225	225
3.1.2	S/ W Eng	Priority major changes	75	75	75	75	75	75	75	75	75
		Minor change	1350	1350	1350	1350	1350	1350	1350	1350	1350
		Medium change	600	600	600	600	600	600	600	600	600
		Major change	150	150	150	150	150	150	150	150	150
3.2	Cable Plant	Trouble Tickets	400	400	280	280	300	320	340	340	340
3.2	Services	Support Requests	175	180	120	120	130	140	150	150	150
3.3	Transmission	Trouble Tickets	250	250	180	180	190	200	210	210	210
3.3	Services	Support Requests	100	100	70	70	75	80	85	85	85
3.4.1	Network	Trouble Tickets	1,300	1,300	910	910	975	1,050	1,100	1,100	1,100
3.4.1	Services	Support Requests	1,300	1,300	910	910	975	1,050	1,100	1,100	1,100
3.4.2	Network Security	Access Request	150	150	125	125	150	150	150	150	150
3.4.2	Perimeter	Support Requests	125	125	125	125	125	125	125	125	125
		Trouble Tickets	4,000	4,000	2,800	2,800	3,000	3,200	3,400	3,400	3,400
	Telephone	Support Requests (TDM)	3,900	3800	3500	2900	2800	2500	2200	2000	1800
3.4.3	Services	Support Requests (VoIP)	100	130	170	200	270	400	530	670	800
	Services	TDM Instruments (each)	18,000	17,500	16,000	13,500	12,750	11,500	10,250	9,250	8,250
		VoIP Instruments (each)	750	1,000	1,250	1,500	2,000	3,000	4,000	5,000	6,000
2.4.4	Secure Remote	Account Request	2,000	400	500	2,500	500	500	3,500	500	500
3.4.4	Access	Support Requests	600	350	350	650	350	350	700	350	350
3.5	Imaging	Trouble Tickets	150	150	105	105	110	120	130	130	130
3.3	Services	Support Requests	1,300	1,300	910	910	975	1,050	1,100	1,100	1,100
	Craphia	Basic products	900	900	850	850	900	900	850	850	850
3.6	Graphic Services	Complex products requiring lengthy planning & frequent customer interface	700	700	650	650	700	700	650	650	650

WORKLOAD INDICATORS											
			Annual Workload Quantities by FY								
PWS Element		Indicators	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17
	Audio Visual &	Videoconferences supported (events)	1,500	1,650	1,650	1,500	1,500	1,350	1,350	1,200	1,200
3.7	Production	Assist with AV presentations (events)	700	770	770	700	700	630	630	560	560
3.7	Support	Provide sound reinforcement (events)	270	270	190	190	200	220	230	230	230
	Services	AV equipment loans	60	60	60	60	60	50	50	50	50
3.8	Timing	Trouble Tickets	50	50	35	35	40	40	40	40	40
3.6	Services	Support Requests	50	50	35	35	40	40	40	40	40
3.9	Voice Comm	Trouble Tickets	750	750	525	525	565	600	640	640	640
3.9	Services	Support Requests	580	580	410	410	435	470	500	500	500
	Electromagnetic	EMI Tests	n/a	n/a	n/a	n/a	45	40	40	35	35
3.10	Measurement &	Beacon Readouts	n/a	n/a	n/a	n/a	10	14	18	20	20
	Analysis Svcs	Launch Support	n/a	n/a	n/a	n/a	10	12	14	15	15
	Publications Services	Research, write, edit, & post web videos & podcasts	150	180	165	150	150	135	135	120	120
		Research, write, edit, & post web feature-length articles	150	180	165	150	150	135	135	120	120
		Coordinate, write scripts, & post live web	50	60	55	50	50	45	45	40	40
3.11		Perform minor updates to web pages	360	435	400	360	360	325	325	290	290
		Create new or modify existing web pages	270	325	300	270	270	245	245	220	220
		Release and post press releases	100	115	110	100	100	90	90	80	80
		Release and post status reports	50	60	55	50	50	45	45	40	40
		Publish KSC internal newsletters	80	95	85	80	80	70	70	65	65
		Writing assignments	350	420	385	350	350	315	315	280	280
		Captions created for photos	2,200	2,640	2,420	2,200	2,200	1,980	1,980	1,760	1,760
	Printing,	Printing / duplicating (8.5x11 page equiv)	50,000,000	60,000,000	55,000,000	50,000,000	50,000,000	45,000,000	45,000,000	40,000,000	40,000,000
		Color copies (8.5x11 page equiv)	1,500,000	1,800,000	1,650,000	1,500,000	1,500,000	1,350,000	1,350,000	1,200,000	1,200,000
		Drawing reproductions (sq. ft.)	1,212,000	1,454,400	1,333,200	1,212,000	1,212,000	1,090,800	1,090,800	969,600	969,600
		Encode aperture cards	50,000	60,000	55,000	50,000	50,000	45,000	45,000	40,000	40,000
	Reproduction,	Aperture cards scanned to raster files	120,000	144,000	132,000	120,000	120,000	108,000	108,000	96,000	96,000
3.12	and	Documents scanned to CDROM	3,366,000	4,040,000	3,703,000	3,366,000	3,366,000	3,030,000	3,030,000	2,693,000	2,693,000
	Microimaging	Microfiche scanned to CDROM	65,000	78,000	71,500	65,000	65,000	58,500	58,500	52,000	52,000
	Services	Prints created from aperture & microfiche	30,000	30,000	30,000	30,000	20,000	20,000	20,000	20,000	20,000
		Microforms inventory	1,628,000	1,953,600	1,791,000	1,630,000	1,630,000	1,465,000	1,465,000	1,303,000	1,303,000
		Images indexed via hyperlinks	1,700,000	2,040,000	1,870,000	1,700,000	1,700,000	1,530,000	1,530,000	1,360,000	1,360,000
		Images converted for Word format	20,000	24,000	22,000	20,000	20,000	18,000	18,000	16,000	16,000

WORKLOAD INDICATORS											
			Annual Workload Quantities by FY								
PWS Element		Indicators	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17
3.13	Engineering	Engineering document sheets processed	24,000	29,000	29,000	25,000	24,000	21,600	21,600	19,200	19,200
	Data Center	Document Release Authorizations	2,000	2,400	2,200	2,000	2,000	1,800	1,800	1,600	1,600
	Library Services	Acquistions	38,900	46,700	43,800	39,000	39,000	35,000	35,000	31,150	31,150
		Items circulated	87,000	104,400	95,700	87,000	87,000	78,300	78,300	69,600	69,600
3.14		Updates to library online catalog Reference requests	45,000 140,000	54,000	49,500	45,000	45,000	40,500	40,500	36,000	36,000
		resource requests	·	168,000	154,000	140,000	140,000	126,000	126,000	112,000	112,000
3.16	Forms Services	Forms created or revised	800	960	880	800	800	720	720	640	640
3.10		Requests for stock forms	2,000	2,400	2,200	2,000	2,000	1,800	1,800	1,600	1,600
3.17	IT Security Services	Incident investigations	70	75	80	100	100	100	125	125	125
3.18	Center Managed Services	Fan Mail kits & special items distributed	33,000	31,000	31,000	32,000	33,000	33,000	31,000	26,400	26,400
Unless otherwise noted, quantities indicate the number of times the service was performed.										•	