Attachment J-6
Applicable Documents

Document Number	Title
14 CFR 1221	NASA Style Guide Complete v2.1
36 CFR Part 1194	Electronic and Information Technology Accessibility Standards
36 CFR, XII, Subchapter B	Federal Records Center (FRC)
CWI J69W-03	Energy Conservation
CWI JE9W-06	EMS Aspect/Impact Assessment and EMP Process
FIPS PUB 199	Standards for Security Categorization of Federal Information and Information Systems
Graphics Standard, GPO300.6	The GPO Preflight Guide
Graphics Standard, GPO3006-8-011	Best Practices for Preparing & Submitting Electronic Design & Prepress Files
HSPD-12	Homeland Security Presidential Directive 12
http://communications.nasa.gov/portal/site/osc	NASA Communications Materials Review System Style Guide
http://www.hq.nasa.gov/pao/insignia/	NASA Graphics Standard
http://www.hq.nasa.gov/pao/insignia/text/newlogopolicy.html	NASA Insignia Policy
http://www.iso14000-iso14001-environmental-management.com/	ISO 14001 for WSTF
http://www.nasa.gov/offices/ogc/commercial/18usc1905.html	18 United States Code (USC) 1905, Disclosure of confidential information generally
http://www.sti.nasa.gov	NASA STI Program direction
International Standard Book Number (ISBN) 0-16-050082-6	United States Government Printing Office Style Manual
ITS-PLAN 1382.1	NASA Plan for Reviewing and Reducing Personally Identifiable Information (PII) and Eliminating Unnecessary Use of Social Security Numbers (SSNs)
Jet Propulsion Laboratory Publication 80-1	The Levels of Edit
JPD 1382.1H	Release of Information to News Media
JPD 1382.4K	Freedom of Information Act (FOIA)
JPD 1385.1I	Official JSC Public Speaking Engagements
JPD 1387.1G	JSC Public Exhibits Program
JPD 8500.1	JSC Environmental Excellence Policy
JPR 1040.3	Johnson Space Center Continuity of Operations (COOP) Planning Procedural Requirements
JPR 1281.5	Document and Data Control
JPR 1440.3C	JSC Records Management Procedural Requirements
JPR 1700.1J	JSC Safety and Health Handbook
JPR 2310.1	JSC Organizational Learning Program
JPR 5322.1F	Contamination Control Requirements Manual
JPR 8500.4K	Engineering Drawing System Manual
JPR 8550.1	JSC Environmental Compliance Procedural Requirements
JPR 8553.1	JSC Environmental Management System (EMS) Manual
JPR 8621.1A	Johnson Space Center Mishap Response Plan
JSC 27847 RevC	Imagery Operations Shuttle Contingency Action Plan
JSC- 27877, Rev I	IRD Mission Support Plan
JSC 29173, Appendix A	JSC IT Configuration Management Plan, Appendix A - IRD Control Board (ICB) Procedures
JSC 29638	IRD Server Operations Management Plan
JSC Announcement 01-060	Policy on Use of NASA Information Technology (IT) Resources (JSC Internet usage policies)
JSC29829	JSC PKI Procedures
NASA Grant/Cooperative Agreement, NNX07AU86A	JSC/UHCL History Archive partnership
NASA RPSv1	NASA Operational Certification Authority (NOCA) Registration Practice Statement
NASA SP-7084	Grammar, Punctuation and Capitalization: A Handbook for Technical Writers and Editors
NASA-STD-2804L	Minimum Interoperability Software Suite
NASA-STD-2818	Digital Television Standards for NASA
NPD 1000.0A	Governance and Strategic Management Handbook
NPD 1000.3D	The NASA Organization
NPD 1382.17G	NASA Privacy Policy

Document Number	Title
NPD 1383.2A	NASA Assistance to Non-Government, Entertainment-Oriented Motion Picture, Television, Video and Multimedia Productions/Enterprises, and Advertising
NPD 1440.6H	NASA Records Management
NPD 1490.1G	NASA Printing, Duplicating, and Copy Management
NPD 2540.1F	Personal Use of Government Office Equipment Including Information Technology (JSC Internet usage policies)
NPD 2800.1B	Managing Information Technology
NPD 2810.1C	NASA Information Security Policy
NPD 2820.1C	NASA Software Policy
NPD 7120.4C	Program/Project Management
NPR 1382.1	NASA Privacy Procedural Requirements
NPR 1387.1	NASA Exhibits Program
NPR 1441.1D	NASA Records Retention Schedules
NPR 1600.1	NASA Security Program Procedural Requirements
NPR 2200.2	Guidelines for Documentation, Approval, and Dissemination of NASA Scientific and Technical Information (STI)
NPR 2810.1A	Security of Information Technology
NPR 2830.1	NASA Enterprise Architecture Procedures
NPR 4200.1	NASA Equipment Management Procedural Requirements
NPR 4200.2	Equipment Management Manual for Property Custodians w/Change 1
NPR 4300.1A	NASA Personal Property Disposal Procedural Requirements
NPR 4310.1	Identification and Disposition of NASA Artifacts
NPR 7120.5D	NASA Space Flight Program and Project Management Requirements
NPR 7120.7	NASA Information Technology and Institutional Infrastructure Program and Project Management Requirements
NPR 7150.2	NASA Software Engineering Requirements
NPR 8570.1	Energy Efficiency and Water Conservation
NPR 8590.1	NASA Environmental Compliance and Restoration (ECR) Program
NPR 8715.3C	NASA General Safety Program Requirements
NPR 8820.2F	Facility Project Requirements
OMB Circular No. A-11	Preparation, Submission, and Execution of the Budget
OMB Circular No. A-11, Part 7	Section 300 — Planning, Budgeting, Acquisition, and Management of Capital Assets
OMB Circular No. A-130	Management of Federal Information Resources
PUBLIC LAW 107–347—DEC. 17 2002	Electronic Government Act of 2002
SP-1998-7501	NASA Thesaurus
SP-1999-7602	NASA Publications Guide for Authors
Title 36 of the Code of Federal Regulations, Chapter XII-B	Records Management
TM-105419	Technical Report Writing
UWI-AP141-001	Scheduling ISS Crew In-Flight Events
	NASA Guidelines for Use of NASA Imagery
	MFR 7, 100, 137 Rex Ltr
	THE PRIVACY ACT OF 1974
	OCIO Investment Management System (IMS) and IT Summary Investment Business Case (SIBC) User Guide v1.2
	NASA Registration Authority (RA) Operations Manual (RAOps7v2)
	X.509 Certificate Policy for NASA PKI (RAOps7v2)
	NASA Certification Authority Certification Practice Statement
	NASA PKI Practices Document (RAOps7v2)
	Section 508 of the Rehabilitation Act

Document Number	Title
	IT Security Incident Response Plan (This document is not yet published. JSC IT Security is currently using NIST document SP800-61, Computer Security Incident Handling Guide, as an interim document)
	Children's Online Privacy Protection Act (COPPA)
	JSC Information Technology (IT) Investment Board Charter (DRAFT)
JSC-64699	JSC Information Technology (IT) Operations and Integration Board Charter
www.nasa.gov/missions/highlights/schedule.html	Space Shuttle Launch Schedule (Manifest)

Attachment J-7
U.S. Department of Labor
Wage Determination

WAGE DETERMINATION NOTICE

The following wage determination (2005-2516 Revision 11) is applicable to labor classifications anticipated during the first year of the contract.

Additional wage determinations, covering work to be performed at the White Sands Test Facility (WSTF), will be incorporated in option years. The additional wage determinations will include both nonunion and union labor classifications. Nonunion nonexempt requirements for WSTF will be covered under wage determination 2005-2512 for Dona Ana County, NM. Union represented work will include classifications currently being performed under Collective Bargaining Agreements (CBA's) between Jacobs Technology, Inc. and the International Association of Machinists and Aerospace Workers, Local 2515 and Enterprise Advisory Services, Inc. and the International Associations of Machinists and Aerospace Workers, Local 2515.

For informational purposes, area wage determination (2005-2512) for Dona Ana County, NM and copies of the current CBA's are included in the Technical Library.

January 1996

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS
ADMINISTRATION

NOTICE OF INTENTION TO MAKE A SERVICE CONTRACT AND RESPONSE TO NOTICE

(See Instructions on Reverse)

1. NOTICE N
NASA
66922

MAIL TO:

Administrator
Wage and Hour Division
U.S. Department of Labor
Washington, DC 20210

2. Estimated solicitation date *(use numerals)*

Month	Day	Year
05	27	2009

3. Estimated date bids or proposals to be opened Or negotiations begun *(use numerals)*

Month	Day	Year
07	09	2009

4. Date contract performance to begin *(use numeral*

Month	Day	Year
03	01	2010

5. PLACE(S) OF PERFORMANCE

Harris County, TX

6. SERVICES TO BE PERFORMED *(describe)*

II: Information Technology and Multimedia Services Contract
Contract Period: 03/01/10 to 02/28/11

7. INFORMATION ABOUT PERFORMANCE

A. [X] Services now performed by a contractor
B. [ ] Services now performed by Federal employees
C. [ ] Services not presently being performed

8. IF BOX A IN ITEM 7 IS MARKED, COMPLETE ITEM 8 AS APPLICABLE

a. Name and address of incumbent contractor

Tessada & Associates
P.O. Box 58807
Houston, TX 77258

MEI Technologies, Inc.
2525 Bay Area Blvd., Suite 300
Houston, TX 77058

b. Number(s) of any wage determination(s) in incumbent's contract

WD 2005-2516

c. Name(s) of union(s) if services are being performed under collective bargaining agreement(s). ***Important:*** Attach copies of current applicable collective bargaining agreements

None

9. OFFICIAL SUBMITTING NOTICE

SIGNED:	DATE
Original signed by	03/26/09
TYPE OR PRINT NAME Jennifer L. Krause Contracting Officer	TELEPHONE NO. 281-483-8269

10. TYPE OR PRINT NAME AND TITLE OF PERSON TO WHOM RESPONSE IS TO BE SENT AND NAME AND ADDRESS OF DEPARTMENT OR AGENCY, BUREAU, DIVISION, ETC.

NASA Johnson Space Center
Jennifer L. Krause, Mail Code BJ2
2101 NASA Parkway
Houston, TX 77058

RESPONSE TO NOTICE
(by Department of Labor)

A. [X] The attached wage determination(s) listed below apply to procurement.
WD 2005-2516, Rev 11

B. [ ] As of this date, no wage determination applicable to the specified locality and classes of employees is in effect.

C. [ ] From information supplied, the Service Contract Act does not apply *(see attached explanation)*.

D. [ ] Notice returned for additional information *(see attached explanation)*

Signed: _____
(U.S. Department of Labor)

_____
(Date)

98-103

COMPUTER-GENERATED

1/96

STANDARD FORM 98a February 1973 U.S. DEPARTMENT OF LABOR Employment Standards Administration	NOTICE OF INTENTION TO MAKE A SERVICE CONTRACT AND RESPONSE TO NOTICE (Attachment A)	11. Notice No. NASA 66922

12. CLASSES OF SERVICE EMPLOYEES TO BE EMPLOYED ON CONTRACT Nonexempt/Nonunion: Occupations Included in "DOL Directory"	13. NUMBER OF EMPLOYEES IN EACH CLASS	14. HOURLY WAGE RATE THAT WOULD BE PAID IF FEDERALLY EMPLOYED
Data Entry Operator, II	1	GS-3 $13.23
Drafter CAD Operator, II	1	GS-5 $16.61
Messenger Courier	1	GS-1 $10.78
Administrative Assistant	2	GS-7 $20.58
Library Technician	9	GS-5 $16.61
Exhibits Specialist, I	5	GS-5 $16.61
Media Specialist, I	1	GS-4 $14.85
General Clerk, I	4	GS-2 $12.12
General Clerk, II	8	GS-3 $13.23
General Clerk, III	17	GS-4 $14.85
Illustrator, I	2	GS-5 $16.61
Tutor	2	GS-5 $16.61
Production Control Clerk	3	GS-6 $18.52
Photographer, II	2	GS-5 $16.61
Photographer, III	5	GS-7 $20.58
Photographer, IV	1	GS-9 $25.17
Material Expeditor	2	WG-7 $20.04
Engineering Technician, I	13	GS-3 $13.23
Engineering Technician, II	14	GS-4 $14.85
Engineering Technician, III	20	GS-5 $16.61
Engineering Technician, IV	1	GS-7 $20.58
Computer Operator, II	1	GS-5 $16.61
Computer Operator, III	5	GS-6 $18.52
Computer Operator, IV	13	GS-7 $20.58
Computer Operator, V	3	GS-8 $22.79
Carpenter, Maintenance	1	WG-9 $23.01
Secretary, I	1	GS-4 $14.85
Secretary, II	3	GS-5 $16.61
Secretary, III	1	GS-6 $18.52

REGISTER OF WAGE DETERMINATIONS
UNDER THE SERVICE CONTRACT ACT
By direction of the Secretary of Labor

Shirley F. Ebbesen
Director

Division of Wage
Determinations

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS
ADMINISTRATION
WAGE AND HOUR DIVISION
WASHINGTON, D.C. 20210

Wage Determination No.: 2005-2516
Revision No.: 11
Date of Last Revision: 07/22/2009

State: Texas

Area: Texas Counties of Austin, Brazoria, Chambers, Colorado, Fort Bend, Galveston, Grimes, Harris, Houston, Jackson, Lavaca, Liberty, Madison, Matagorda, Montgomery, San Jacinto, Trinity, Walker, Waller, Washington, Wharton

Fringe Benefits Required Follow the Occupational Listing

OCCUPATION CODE - TITLE	FOOTNOTE	RATE
01000 - Administrative Support And Clerical Occupations		
01011 - Accounting Clerk I		14 .89
01012 - Accounting Clerk II		16 .71
01013 - Accounting Clerk III		18 .78
01020 - Administrative Assistant		23 .55
01040 - Court Reporter		21 .79
01051 - Data Entry Operator I		12 .09
01052 - Data Entry Operator II		14 .32
01060 - Dispatcher, Motor Vehicle		15 .96
01070 - Document Preparation Clerk		13 .41
01090 - Duplicating Machine Operator		13 .41
01111 - General Clerk I		10 .80
01112 - General Clerk II		12 .97
01113 - General Clerk III		14 .88
01120 - Housing Referral Assistant		20 .55
01141 - Messenger Courier		11 .95
01191 - Order Clerk I		13 .52
01192 - Order Clerk II		15 .24
01261 - Personnel Assistant (Employment) I		15 .13
01262 - Personnel Assistant (Employment) II		16 .92

01263 - Personnel Assistant (Employment) III	18 .86
01270 - Production Control Clerk	19 .10
01280 - Receptionist	12 .02
01290 - Rental Clerk	14 .75
01300 - Scheduler, Maintenance	15 .92
01311 - Secretary I	15 .92
01312 - Secretary II	17 .90
01313 - Secretary III	20 .55
01320 - Service Order Dispatcher	15 .16
01410 - Supply Technician	23 .55
01420 - Survey Worker	16 .59
01531 - Travel Clerk I	13 .63
01532 - Travel Clerk II	14 .69
01533 - Travel Clerk III	15 .71
01611 - Word Processor I	13 .50
01612 - Word Processor II	15 .59
01613 - Word Processor III	17 .44

05000 - Automotive Service Occupations

05005 - Automobile Body Repairer, Fiberglass	24 .80
05010 - Automotive Electrician	22 .66
05040 - Automotive Glass Installer	21 .68
05070 - Automotive Worker	20 .91
05110 - Mobile Equipment Servicer	19 .27
05130 - Motor Equipment Metal Mechanic	24 .53
05160 - Motor Equipment Metal Worker	20 .91
05190 - Motor Vehicle Mechanic	24 .53
05220 - Motor Vehicle Mechanic Helper	18 .48
05250 - Motor Vehicle Upholstery Worker	19 .84
05280 - Motor Vehicle Wrecker	20 .91
05310 - Painter, Automotive	22 .66
05340 - Radiator Repair Specialist	22 .88
05370 - Tire Repairer	14 .40
05400 - Transmission Repair Specialist	25 .17

07000 - Food Preparation And Service Occupations

07010 - Baker	10 .04
07041 - Cook I	9 .52
07042 - Cook II	10 .88
07070 - Dishwasher	8 .11
07130 - Food Service Worker	9 .12
07210 - Meat Cutter	12 .53
07260 - Waiter/Waitress	7 .97

09000 - Furniture Maintenance And Repair Occupations

09010 - Electrostatic Spray Painter	16 .65
09040 - Furniture Handler	11 .74
09080 - Furniture Refinisher	16 .09
09090 - Furniture Refinisher Helper	13 .74
09110 - Furniture Repairer, Minor	15 .29
09130 - Upholsterer	16 .65

11000 - General Services And Support Occupations

11030 - Cleaner, Vehicles	9 .90
11060 - Elevator Operator	8 .17
11090 - Gardener	14 .52
11122 - Housekeeping Aide	8 .17
11150 - Janitor	8 .17
11210 - Laborer, Grounds Maintenance	10 .93
11240 - Maid or Houseman	7 .73
11260 - Pruner	8 .99
11270 - Tractor Operator	12 .82
11330 - Trail Maintenance Worker	10 .93
11360 - Window Cleaner	8 .92

12000 - Health Occupations

12010 - Ambulance Driver	14 .48
12011 - Breath Alcohol Technician	15 .64
12012 - Certified Occupational Therapist Assistant	21 .54
12015 - Certified Physical Therapist Assistant	22 .53
12020 - Dental Assistant	15 .64
12025 - Dental Hygienist	32 .49

12030 - EKG Technician	23 .56
12035 - Electroneurodiagnostic Technologist	23 .56
12040 - Emergency Medical Technician	14 .48
12071 - Licensed Practical Nurse I	18 .94
12072 - Licensed Practical Nurse II	21 .19
12073 - Licensed Practical Nurse III	23 .62
12100 - Medical Assistant	12 .40
12130 - Medical Laboratory Technician	15 .90
12160 - Medical Record Clerk	14 .53
12190 - Medical Record Technician	16 .57
12195 - Medical Transcriptionist	16 .81
12210 - Nuclear Medicine Technologist	35 .13
12221 - Nursing Assistant I	7 .79
12222 - Nursing Assistant II	10 .02
12223 - Nursing Assistant III	10 .94
12224 - Nursing Assistant IV	12 .40
12235 - Optical Dispenser	15 .26
12236 - Optical Technician	13 .90
12250 - Pharmacy Technician	17 .44
12280 - Phlebotomist	13 .30
12305 - Radiologic Technologist	24 .27
12311 - Registered Nurse I	29 .05
12312 - Registered Nurse II	35 .53
12313 - Registered Nurse II, Specialist	35 .53
12314 - Registered Nurse III	42 .98
12315 - Registered Nurse III, Anesthetist	42 .98
12316 - Registered Nurse IV	51 .52
12317 - Scheduler (Drug and Alcohol Testing)	21 .85

13000 - Information And Arts Occupations

13011 - Exhibits Specialist I	19 .30
13012 - Exhibits Specialist II	24 .74
13013 - Exhibits Specialist III	28 .94
13041 - Illustrator I	18 .07
13042 - Illustrator II	22 .56
13043 - Illustrator III	27 .38
13047 - Librarian	26 .69
13050 - Library Aide/Clerk	10 .26
13054 - Library Information Technology Systems Administrator	24 .09
13058 - Library Technician	14 .58
13061 - Media Specialist I	17 .39

13062 - Media Specialist II		19 .46
13063 - Media Specialist III		21 .68
13071 - Photographer I		13 .93
13072 - Photographer II		17 .60
13073 - Photographer III		22 .56
13074 - Photographer IV		26 .40
13075 - Photographer V		30 .06
13110 - Video Teleconference Technician		16 .73

14000 - Information Technology Occupations

14041 - Computer Operator I		16 .41
14042 - Computer Operator II		18 .35
14043 - Computer Operator III		20 .46
14044 - Computer Operator IV		22 .74
14045 - Computer Operator V		25 .18
14071 - Computer Programmer I	(see 1)	25 .36
14072 - Computer Programmer II	(see 1)	
14073 - Computer Programmer III	(see 1)	
14074 - Computer Programmer IV	(see 1)	
14101 - Computer Systems Analyst I	(see 1)	
14102 - Computer Systems Analyst II	(see 1)	
14103 - Computer Systems Analyst III	(see 1)	
14150 - Peripheral Equipment Operator		16 .41
14160 - Personal Computer Support Technician		22 .74

15000 - Instructional Occupations

15010 - Aircrew Training Devices Instructor (Non-Rated)	32 .64
15020 - Aircrew Training Devices Instructor (Rated)	39 .49
15030 - Air Crew Training Devices Instructor (Pilot)	47 .34
15050 - Computer Based Training Specialist / Instructor	31 .10
15060 - Educational Technologist	29 .02
15070 - Flight Instructor (Pilot)	47 .34
15080 - Graphic Artist	25 .42
15090 - Technical Instructor	22 .43
15095 - Technical Instructor/Course Developer	27 .43
15110 - Test Proctor	18 .43
15120 - Tutor	18 .43

16000 - Laundry, Dry-Cleaning, Pressing And Related Occupations

16010 - Assembler	9 .40
16030 - Counter Attendant	9 .40
16040 - Dry Cleaner	12 .06
16070 - Finisher, Flatwork, Machine	9 .40
16090 - Presser, Hand	9 .40
16110 - Presser, Machine, Drycleaning	9 .40
16130 - Presser, Machine, Shirts	9 .40
16160 - Presser, Machine, Wearing Apparel, Laundry	9 .40
16190 - Sewing Machine Operator	12 .79
16220 - Tailor	13 .75
16250 - Washer, Machine	10 .32

19000 - Machine Tool Operation And Repair Occupations

19010 - Machine-Tool Operator (Tool Room)	18 .32
19040 - Tool And Die Maker	21 .12

21000 - Materials Handling And Packing Occupations

21020 - Forklift Operator	12 .84
21030 - Material Coordinator	18 .58
21040 - Material Expediter	18 .58
21050 - Material Handling Laborer	12 .26
21071 - Order Filler	11 .47
21080 - Production Line Worker (Food Processing)	12 .84
21110 - Shipping Packer	14 .60
21130 - Shipping/Receiving Clerk	14 .60
21140 - Store Worker I	10 .67
21150 - Stock Clerk	15 .13
21210 - Tools And Parts Attendant	13 .58
21410 - Warehouse Specialist	12 .84

23000 - Mechanics And Maintenance And Repair Occupations

23010 - Aerospace Structural Welder	28 .07
23021 - Aircraft Mechanic I	26 .73
23022 - Aircraft Mechanic II	28 .07
23023 - Aircraft Mechanic III	29 .47
23040 - Aircraft Mechanic Helper	20 .93

23050 - Aircraft, Painter	24 .39
23060 - Aircraft Servicer	23 .28
23080 - Aircraft Worker	24 .53
23110 - Appliance Mechanic	17 .26
23120 - Bicycle Repairer	13 .91
23125 - Cable Splicer	25 .34
23130 - Carpenter, Maintenance	18 .58
23140 - Carpet Layer	17 .83
23160 - Electrician, Maintenance	26 .51
23181 - Electronics Technician Maintenance I	21 .28
23182 - Electronics Technician Maintenance II	23 .89
23183 - Electronics Technician Maintenance III	25 .10
23260 - Fabric Worker	15 .97
23290 - Fire Alarm System Mechanic	19 .95
23310 - Fire Extinguisher Repairer	15 .46
23311 - Fuel Distribution System Mechanic	19 .28
23312 - Fuel Distribution System Operator	16 .33
23370 - General Maintenance Worker	18 .08
23380 - Ground Support Equipment Mechanic	26 .73
23381 - Ground Support Equipment Servicer	23 .28
23382 - Ground Support Equipment Worker	24 .53
23391 - Gunsmith I	15 .46
23392 - Gunsmith II	18 .08
23393 - Gunsmith III	20 .27
23410 - Heating, Ventilation And Air-Conditioning Mechanic	21 .04
23411 - Heating, Ventilation And Air Contditioning Mechanic (Research Facility)	21 .95
23430 - Heavy Equipment Mechanic	19 .45
23440 - Heavy Equipment Operator	19 .26
23460 - Instrument Mechanic	23 .52
23465 - Laboratory/Shelter Mechanic	19 .29
23470 - Laborer	10 .97
23510 - Locksmith	18 .99
23530 - Machinery Maintenance Mechanic	22 .76
23550 - Machinist, Maintenance	20 .16
23580 - Maintenance Trades Helper	13 .58
23591 - Metrology Technician I	23 .52
23592 - Metrology Technician II	24 .54
23593 - Metrology Technician III	25 .58
23640 - Millwright	21 .53
23710 - Office Appliance Repairer	18 .99
23760 - Painter, Maintenance	18 .99
23790 - Pipefitter, Maintenance	19 .44

23810 - Plumber, Maintenance	18 .98
23820 - Pneudraulic Systems Mechanic	20 .27
23850 - Rigger	19 .47
23870 - Scale Mechanic	18 .08
23890 - Sheet-Metal Worker, Maintenance	19 .95
23910 - Small Engine Mechanic	18 .08
23931 - Telecommunications Mechanic I	23 .89
23932 - Telecommunications Mechanic II	24 .95
23950 - Telephone Lineman	23 .20
23960 - Welder, Combination, Maintenance	20 .27
23965 - Well Driller	20 .27
23970 - Woodcraft Worker	15 .04
23980 - Woodworker	

24000 - Personal Needs Occupations

24570 - Child Care Attendant	10 .65
24580 - Child Care Center Clerk	13 .27
24610 - Chore Aide	7 .25
24620 - Family Readiness And Support Services Coordinator	12 .57
24630 - Homemaker	16 .84

25000 - Plant And System Operations Occupations

25010 - Boiler Tender	21 .14
25040 - Sewage Plant Operator	18 .70
25070 - Stationary Engineer	21 .14
25190 - Ventilation Equipment Tender	14 .33
25210 - Water Treatment Plant Operator	18 .32

27000 - Protective Service Occupations

27004 - Alarm Monitor	16 .14
27007 - Baggage Inspector	11 .15
27008 - Corrections Officer	18 .04
27010 - Court Security Officer	19 .25
27030 - Detection Dog Handler	17 .90
27040 - Detention Officer	18 .04
27070 - Firefighter	19 .10
27101 - Guard I	11 .15
27102 - Guard II	17 .90
27131 - Police Officer I	23 .52

27132 - Police Officer II		26 .14

28000 - Recreation Occupations

28041 - Carnival Equipment Operator		11 .63
28042 - Carnival Equipment Repairer		12 .36
28043 - Carnival Equpment Worker		8 .51
28210 - Gate Attendant/Gate Tender		13 .90
28310 - Lifeguard		12 .38
28350 - Park Attendant (Aide)		15 .55
28510 - Recreation Aide/Health Facility Attendant		11 .35
28515 - Recreation Specialist		17 .83
28630 - Sports Official		12 .38
28690 - Swimming Pool Operator		17 .44

29000 - Stevedoring/Longshoremen Occupational Services

29010 - Blocker And Bracer		19 .36
29020 - Hatch Tender		19 .36
29030 - Line Handler		19 .36
29041 - Stevedore I		17 .98
29042 - Stevedore II		20 .65

30000 - Technical Occupations

30010 - Air Traffic Control Specialist, Center (HFO)	(see 2)	39 .61
30011 - Air Traffic Control Specialist, Station (HFO)	(see 2)	27 .31
30012 - Air Traffic Control Specialist, Terminal (HFO)	(see 2)	30 .07
30021 - Archeological Technician I		21 .10
30022 - Archeological Technician II		25 .47
30023 - Archeological Technician III		30 .62
30030 - Cartographic Technician		30 .62
30040 - Civil Engineering Technician		30 .03
30061 - Drafter/CAD Operator I		21 .10
30062 - Drafter/CAD Operator II		24 .71
30063 - Drafter/CAD Operator III		27 .56
30064 - Drafter/CAD Operator IV		32 .42
30081 - Engineering Technician I		18 .25
30082 - Engineering Technician II		22 .45
30083 - Engineering Technician III		25 .11
30084 - Engineering Technician IV		31 .09
30085 - Engineering Technician V		38 .65

30086 - Engineering Technician VI		46 .04
30090 - Environmental Technician		29 .96
30210 - Laboratory Technician		23 .56
30240 - Mathematical Technician		30 .62
30361 - Paralegal/Legal Assistant I		20 .47
30362 - Paralegal/Legal Assistant II		25 .36
30363 - Paralegal/Legal Assistant III		31 .02
30364 - Paralegal/Legal Assistant IV		37 .52
30390 - Photo-Optics Technician		30 .62
30461 - Technical Writer I		21 .46
30462 - Technical Writer II		26 .25
30463 - Technical Writer III		31 .75
30491 - Unexploded Ordnance (UXO) Technician I		25 .17
30492 - Unexploded Ordnance (UXO) Technician II		30 .45
30493 - Unexploded Ordnance (UXO) Technician III		36 .50
30494 - Unexploded (UXO) Safety Escort		25 .17
30495 - Unexploded (UXO) Sweep Personnel		25 .17
30620 - Weather Observer, Combined Upper Air Or Surface Programs	(see 2)	26 .35
30621 - Weather Observer, Senior	(see 2)	30 .48

31000 - Transportation/Mobile Equipment Operation Occupations

31020 - Bus Aide	11 .25
31030 - Bus Driver	16 .38
31043 - Driver Courier	12 .75
31260 - Parking and Lot Attendant	8 .34
31290 - Shuttle Bus Driver	13 .89
31310 - Taxi Driver	11 .54
31361 - Truckdriver, Light	13 .89
31362 - Truckdriver, Medium	17 .25
31363 - Truckdriver, Heavy	19 .46
31364 - Truckdriver, Tractor-Trailer	19 .46

99000 - Miscellaneous Occupations

99030 - Cashier	9 .10
99050 - Desk Clerk	10 .65
99095 - Embalmer	21 .55
99251 - Laboratory Animal Caretaker I	9 .74
99252 - Laboratory Animal Caretaker II	10 .71
99310 - Mortician	24 .04

99410 - Pest Controller	14 .36
99510 - Photofinishing Worker	11 .47
99710 - Recycling Laborer	14 .96
99711 - Recycling Specialist	18 .24
99730 - Refuse Collector	13 .34
99810 - Sales Clerk	11 .51
99820 - School Crossing Guard	9 .96
99830 - Survey Party Chief	20 .96
99831 - Surveying Aide	14 .35
99832 - Surveying Technician	18 .13
99840 - Vending Machine Attendant	12 .00
99841 - Vending Machine Repairer	14 .41
99842 - Vending Machine Repairer Helper	12 .31

ALL OCCUPATIONS LISTED ABOVE RECEIVE THE FOLLOWING BENEFITS:

HEALTH & WELFARE: Life, accident, and health insurance plans, sick leave, pension plans, civic and personal leave, severance pay, and savings and thrift plans. Minimum employer contributions costing an average of $3.35 per hour computed on the basis of all hours worked by service employees employed on the contract.

VACATION: 2 weeks paid vacation after 1 year of service with a contractor or successor; 3 weeks after 5 years, and 4 weeks after 15 years. Length of service includes the whole span of continuous service with the present contractor or successor, wherever employed, and with the predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 29 CFR 4.173)

HOLIDAYS: A minimum of ten paid holidays per year, New Year's Day, Martin Luther King Jr's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays another day off with pay in accordance with a plan communicated to the employees involved.) (See 29 CFR 4174)

THE OCCUPATIONS WHICH HAVE NUMBERED FOOTNOTES IN PARENTHESES RECEIVE THE FOLLOWING:

1) COMPUTER EMPLOYEES: Under the SCA at section 8(b), this wage determination does not apply to any employee who individually qualifies as a bona fide executive, administrative, or professional employee as defined in 29 C.F.R. Part 541. Because most Computer System Analysts and Computer Programmers who are compensated at a rate not less than $27.63 (or on a salary or fee basis at a rate not less than $455 per week) an hour would likely qualify as exempt computer professionals, (29 C.F.R. 541.400) wage rates may not be listed on this wage determination for all occupations within those job families. In addition, because this wage determination may not list a wage rate for some or all occupations within those job families if the survey data indicates that the prevailing wage rate for the occupation equals or exceeds $27.63 per hour conformances may be necessary for certain nonexempt employees. For example, if an individual employee is nonexempt but nevertheless performs duties within the scope of one of the Computer Systems Analyst or Computer Programmer occupations for which this wage determination does not specify an SCA wage rate, then the wage rate for that employee must be conformed in accordance with the conformance procedures described in the conformance note included on this wage determination.

Additionally, because job titles vary widely and change quickly in the computer industry, job titles are not determinative of the application of the computer professional exemption. Therefore, the exemption applies

only to computer employees who satisfy the compensation requirements and whose primary duty consists of:

(1) The application of systems analysis techniques and procedures, including consulting with users, to determine hardware, software or system functional specifications;

(2) The design, development, documentation, analysis, creation, testing or modification of computer systems or programs, including prototypes, based on and related to user or system design specifications;

(3) The design, documentation, testing, creation or modification of computer programs related to machine operating systems; or

(4) A combination of the aforementioned duties, the performance of which requires the same level of skills. (29 C.F.R. 541.400).

2) AIR TRAFFIC CONTROLLERS AND WEATHER OBSERVERS - NIGHT PAY & SUNDAY PAY: If you work at night as part of a regular tour of duty, you will earn a night differential and receive an additional 10% of basic pay for any hours worked between 6pm and 6am. If you are a full-time employed (40 hours a week) and Sunday is part of your regularly scheduled workweek, you are paid at your rate of basic pay plus a Sunday premium of 25% of your basic rate for each hour of Sunday work which is not overtime (i.e. occasional work on Sunday outside the normal tour of duty is considered overtime work).

HAZARDOUS PAY DIFFERENTIAL: An 8 percent differential is applicable to employees employed in a position that represents a high degree of hazard when working with or in close proximity to ordinance, explosives, and incendiary materials. This includes work such as screening, blending, dying, mixing, and pressing of sensitive ordance, explosives, and pyrotechnic compositions such as lead azide, black powder and photoflash powder. All dry-house activities involving propellants or explosives. Demilitarization, modification, renovation, demolition, and maintenance operations on sensitive ordnance, explosives and incendiary materials. All operations involving regrading and cleaning of artillery ranges.

A 4 percent differential is applicable to employees employed in a position that represents a low degree of hazard when working with, or in close proximity to ordance, (or employees possibly adjacent to) explosives and incendiary materials which involves potential injury such as laceration of hands, face, or arms of the employee engaged in the operation, irritation of the skin, minor burns and the like; minimal damage to immediate or adjacent work area or equipment being used. All operations involving, unloading, storage, and hauling of ordance, explosive, and incendiary ordnance material other than small arms ammunition. These differentials are only applicable to work that has been specifically designated by the agency for ordance, explosives, and incendiary material differential pay.

** UNIFORM ALLOWANCE **

If employees are required to wear uniforms in the performance of this contract (either by the terms of the Government contract, by the employer, by the state or local law, etc.), the cost of furnishing such uniforms and maintaining (by laundering or dry cleaning) such uniforms is an expense that may not be borne by an employee where such cost reduces the hourly rate below that required by the wage determination. The Department of Labor will accept payment in accordance with the following standards as compliance:

The contractor or subcontractor is required to furnish all employees with an adequate number of uniforms without cost or to reimburse employees for the actual cost of the uniforms. In addition, where uniform cleaning and maintenance is made the responsibility of the employee, all contractors and subcontractors subject to this wage determination shall (in the absence of a bona fide collective bargaining agreement providing for a different amount, or the furnishing of contrary affirmative proof as to the actual cost), reimburse all employees for such cleaning and maintenance at a rate of $3.35 per week (or $.67 cents per day). However, in those instances where the uniforms furnished are made of "wash and wear" materials, may be routinely washed and dried with other personal garments, and do not require any special treatment such as dry cleaning, daily washing, or commercial laundering in order to meet the cleanliness or appearance standards set by the terms of the Government contract, by the contractor, by law, or by the nature of the work, there is no requirement that employees be reimbursed for uniform maintenance costs.

The duties of employees under job titles listed are those described in the "Service Contract Act Directory of Occupations", Fifth Edition, April 2006, unless otherwise indicated. Copies of the Directory are available on the Internet. A links to the Directory may be found on the WHD home page at

http://www.dol.gov/esa/whd/ or through the Wage Determinations On-Line (WDOL) Web site at http://wdol.gov/.

REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND WAGE RATE
{Standard Form 1444 (SF 1444)}

Conformance Process:

The contracting officer shall require that any class of service employee which is not listed herein and which is to be employed under the contract (i.e., the work to be performed is not performed by any classification listed in the wage determination), be classified by the contractor so as to provide a reasonable relationship (i.e., appropriate level of skill comparison) between such unlisted classifications and the classifications listed in the wage determination. Such conformed classes of employees shall be paid the monetary wages and furnished the fringe benefits as are determined. Such conforming process shall be initiated by the contractor prior to the performance of contract work by such unlisted class(es) of employees. The conformed classification, wage rate, and/or fringe benefits shall be retroactive to the commencement date of the contract. {See Section 4.6 (C)(vi)} When multiple wage determinations are included in a contract, a separate SF 1444 should be prepared for each wage determination to which a class(es) is to be conformed.

The process for preparing a conformance request is as follows:

1) When preparing the bid, the contractor identifies the need for a conformed occupation(s) and computes a proposed rate(s).

2) After contract award, the contractor prepares a written report listing in order proposed classification title(s), a Federal grade equivalency (FGE) for each proposed classification(s), job description(s), and rationale for proposed wage rate(s), including information regarding the agreement or disagreement of the authorized representative of the employees involved, or where there is no authorized representative, the employees themselves. This report should be submitted to the contracting officer no later than 30 days after such unlisted class(es) of employees performs any contract work.

3) The contracting officer reviews the proposed action and promptly submits a report of the action, together with the agency's recommendations and pertinent information including the position of the contractor and the employees, to the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, for review. (See section 4.6(b)(2) of Regulations 29 CFR Part 4).

4) Within 30 days of receipt, the Wage and Hour Division approves, modifies, or disapproves the action via transmittal to the agency contracting officer, or notifies the contracting officer that additional time will be required to process the request.

5) The contracting officer transmits the Wage and Hour decision to the contractor.

6) The contractor informs the affected employees.

Information required by the Regulations must be submitted on SF 1444 or bond paper.

When preparing a conformance request, the "Service Contract Act Directory of Occupations" (the Directory) should be used to compare job definitions to insure that duties requested are not performed by a classification already listed in the wage determination. Remember, it is not the job title, but the required tasks that determine whether a class is included in an established wage determination. Conformances may not be used to artificially split, combine, or subdivide classifications listed in the wage determination.

Attachment J-8
Safety and Health Plan

(To be provided by Contractor)

NASA Lyndon B. Johnson Space Center Information Technology and Multimedia Services (ITAMS) Contract RFP No. NNJ09244782R

SAFETY AND HEALTH PLAN

June 3, 2010

Submitted By:

DB Consulting Group, Inc.
8403 Colesville Road, 10th Floor
Silver Spring, MD 20910
Voice: 301-589-4020
Fax: 301-589-4122
www.dbconsultinggroup.com

Safety and Health Plan
For ITAMS

Submitted by DB Consulting Group, Inc.

ITAMS Program Manager
DB Consulting Group, Inc.

Performance Excellence Manager
DB Consulting Group, Inc.

JSC COTR

JSC Contracting Officer

JSC Occupational Safety
Branch/NS2

JSC Occupational Health Officer

Use or disclosure of data contained herein is subject to the restriction on the title page of this proposal.

Change Record

Rev.	Date	Originator	Description
Baseline	12/2/2009	Jeff White	Initial Release
Rev 1	6/3/2010	Jeff White	Competitive Range Weakness Resolution

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ITAMS SAFETY AND HEALTH PLAN

1.0 MANAGEMENT LEADERSHIP AND EMPLOYEE PARTICIPATION

PREFACE

The ITAMS Safety and Health (S&H) Plan is developed in compliance with the requirements stated in DRD 9 of the ITAMS RFP, and all applicable federal, state, and local laws and regulations and NASA requirements. This plan defines the Team DB commitment to meeting all of the above obligations and defines the content of the S&H program for ITAMS. Basically the plan defines the "what" and the implementation procedures detail the "how" for the S&H program.

The detailed procedures for the control, implementation, measurement, verification, and improvement safety, health & environmental compliance (SH&EC) processes are documented in the Customer Quality Plan part of the Team DB AS9100 QMS. The procedures are the basis for work force training and certification for the ITAMS SH&EC processes. The Customer Quality Plan contains the specific procedures directly providing support to NASA and is documented in accordance with the requirements of DRD 11 "Standard Operating Procedures". All current versions of the controlled Team DB procedures are accessible by ITAMS employees and NASA electronically from the Team DB Intranet. A correlation matrix between the requirements of AS9100 and the procedures to be developed to support the requirements of this Plan is in Appendix A.

This S&H Plan is reviewed on a minimum of an annual basis, as directed by the Contracting Officer, and when NASA or regulatory changes necessitate updating then submitted to NASA for approval. It is anticipated that the detailed procedures documented to control the implementation of the provisions of this plan, will be updated as needed based on verification of their effectiveness as they are utilized and measured, and as a minimum, annually based on internal audit results and submitted to NASA for review and approval.

Copies of approved versions of the Team DB S&H Plan are submitted to the Contracting Officer, NS/Safety and Test Operations Division, the JSC Occupational Health Officer, and the JSC Emergency Preparedness Office as required by DRD 9. **Exhibit 1.1-1** depicts the relationship of the Customer Quality Plan and customer support procedures to the Team DB AS9100 QMS. The SH&EC procedures are included with all of the other task order implementation procedures into a "Customer Quality Plan" that is documented responsive to the requirements of Clause 7 of AS9100 Product realization

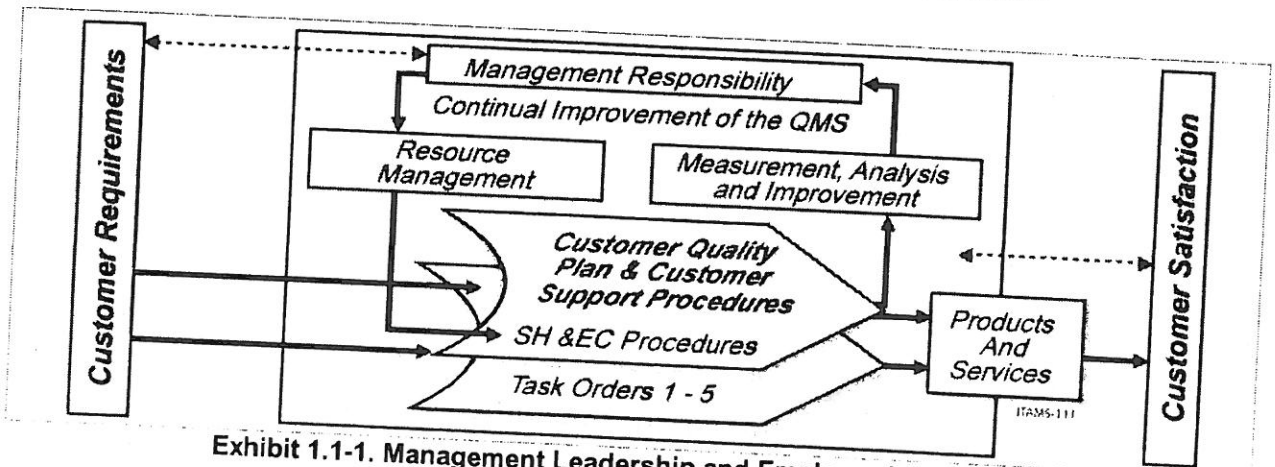

Exhibit 1.1-1. Management Leadership and Employee Involvement

1.1 Policy

Team DB conducts its operations in a manner that provides and maintains safe and healthful working conditions, protect the environment, conserve natural resources, prevent all mishaps, remove or control all workplace hazards, hold managers accountable for the safety and health of the work environment, and incorporate an attitude of safety for self and others as a condition of employment.

This is fundamental based on Team DB's long record of commitment to our customers' requirements and priorities; as well as maintaining an ethical approach to provide the best possible work experience for all of our team members. This includes the absolute commitment by Team DB's management team for providing the leadership, management systems, resources, an open system for active employee participation and input, training, the necessary equipment, to create an environment for protection of the public, Government employees, Team DB employees, other NASA Contractors, and NASA's high value assets. Team DB's SH&EC policy is entirely consistent with and supportive of all NASA policies, and is based on the premise that preventive strategies are the foundation of effective SH&EC Programs. To that end Team DB shall maintain an open and collaborative partnership with NASA, with transparency into all of our operational activities, to provide confidence to NASA that effective measures are in place to fulfill NASA's S&H goals and objectives.

1.2 Goals and Objectives

Team DB's annual goals and objectives for SH&EC are:

- Zero incidents where the public, Government employees, or other contractors are exposed to potential safety and occupational health risks,
- Zero Team DB work-related injuries and illnesses,
- Zero incidents resulting in environmental cleanup or damage,
- Zero incidents resulting in damage to NASA's high value equipment,
- 100% compliance with all SH&EC regulatory laws and requirements (federal, state and local), all NASA contracted requirements, and all related Team DB implementation procedures,
- 100% completion of all required SH&EC training by all Team DB employees,
- Robust employee support as measured by continued employee participation in safety meetings, timely completion of required training, close call reports, and suggestions, and
- Maintenance of an effective S&H program consistent with the principles of the OSHA VPP Program.

Team DB's goal is to have an effective VPP based S&H program implemented at the start of the contract and to achieve VPP Star status within 36 months.

All of these metrics are lagging indicators of the performance of S&H programs. The Team DB strategy is to establish an S&H program based on the OSHA VPP model that focuses on preventive methods and leading indicators to eliminate and/or mitigate risks and hazards that could contribute to any of these metrics.

The following methods are to improve the Days Away Case Rate (DACR), the Total Recordable Injury Rate (TRIR), the total Days Away plus Restricted Duty plus Job Transfer (DART), and overall S&H performance:

- Management commitment by example to our S&H goals and objectives,
- Every work area manager and lead is fundamentally an extension of the Performance Excellence Manager (Safety Manager) for implementation and accountability for the provisions of this plan,
- Establishment of employee led S&H committees that drive rate reductions by employee involvement and ownership of the SHP,
- Defined mandatory S&H training that calls out specific employee training requirements,
- Individual S&H training requirements completion monitoring by training coordinators and managers,
- Monthly safety meetings,
- Safety Alerts/Briefs posted on company website,
- Participation in JSC Safety and Health Day activities on and off site,
- Special emphasis on the development and implementation of programs for slips, trips, and falls, ergonomics and safe lifting,
- Implementation and maintenance of an active prevention oriented employee fitness and health program,
- Employee close call and unsafe condition reporting efforts,

- Robust inspections process, and
- Trend analysis to determine any needs for a special emphasis program.

1.3 Management Leadership

The ITAMS Program Manager and the entire Team DB understand that committed management leadership is the most essential ingredient required in attaining the SH&EC goals stated in Section 1.2 above. Management Leadership starts with the Team DB ITAMS Program Manager and extends through all levels of managers and supervision. The management of all required ITAMS work is accomplished so that S&H considerations are included in the everyday management processes for each Task Order requirement. The Team DB ITAMS Program Manager has direct access to the CEO of DB Consulting and is held accountable by the CEO for providing the necessary leadership of the ITAMS Contract in meeting the SH&EC goals stated in this plan. This accountability is demonstrated to the CEO of DB Consulting with monthly updates of the metrics that demonstrate the status of meeting the ITAMS SH&EC goals and objectives.

As Program Manager for the ITAMS contract, I assume full responsibility for establishing, implementing, and maintaining a comprehensive SH&EC program as approved by NASA. I will ensure this contract is performed by Team DB in a manner consistent with Federal, state, and local regulatory agencies, as well as NASA and OSHA standards, to the degree necessary to avoid loss of life, injury to personnel, property loss, mission failure, and test failure.

Program Manager

The Team DB management approach includes a robust risk management system based on the requirements of NPR 8000.4 to facilitate risk informed decision making by the members of the management team. (Reference Management Volume Section 3.2.2 Risk Management). Team DB has established a leadership position, ITAMS Performance Excellence Manager, reporting directly to the ITAMS Program Manager, responsible for the ITAMS risk management program; which includes Safety, Health, Environmental, the AS9100 Quality Management System and CMMI. S&H issues are potential risk items and must be presented to the management team with completed analysis and mitigation strategies for use in risk informed decision making in accordance with NPR 8715.3C. The hazard analysis and risk assessment process is under the direction of the ITAMS PEO and is described in Section 3. Hazard Prevention and Control of this Plan.

Team DB ITAMS leadership maintains its visibility within the work force for SH&EC by active participation and involvement in the conduct of the work processes and by engaging the employees in decision making for the issues that affect them. This is accomplished by:

- Management leadership of monthly safety meetings with employee representatives,
- "Open door policy" by all Team DB management team members to understand and address all SH&EC issues brought up by any employee,
- Management participation in planned safety inspections,
- Management team timely "on scene review" of hazards, close calls, incidents, significant potential risks, and implemented corrective actions, and
- Management team presentation of "Spot Recognition" to employees in the person's work area for exemplary contributions to SH&EC such as identifying close calls, preventing hazards, and inspiring good safety behavior in team members.

1.4 Employee Involvement

Active involvement by Team DB employees in the administration and implementation of the SH&EC processes is a required condition for employment on the ITAMS Contract. This commitment begins when a prospective employee is considered for employment and is considered a major component of the

collective DNA of our team. Team behavior for SH&EC is reinforced by the Team DB culture that is based on focused management leadership, required employee participation in all aspects of decision making, continual process verification by use of planned audits, employee performance reviews, and awarding exemplary behavior and performance. Employee participation is mandatory throughout all phases of the planning, implementation, and evaluation of Team DB's safety, health, and environmental compliance program and to comply with OSHA VPP requirements.

Employees participate in our SH&EC Program by:

- Serving as Building Fire Wardens,
- Serving as Safety and Health Representatives on the Team DB Safety Committee for their functional work area. The unique perspective that the performers of the work bring to maintaining an effective safety, health, and compliance program adds considerable value to the process,
- Participating in safety, health, and environmental compliance audits,
- Performing Job Hazard Analyses.
- Participating in the annual JSC Safety and Total Health Day activities,
- Participating in Mishap and Close Call investigations,
- Providing safety, health, and environmental inputs and identifying hazards through the Close Call Reporting System and/or directly to management,
- Timely completion of all required training,
- Developing creative themes and methods of communicating "the message" to employees regarding safety, health, and environmental issues on and off the job,
- Nominating Team DB fellow employees for "Spot Awards" for commendable safety actions, and
- Receiving S&H training as required by defined job competency requirements.

The Safety Committee is appointed by the ITAMS Program Manager in compliance with OSHA guidelines, and is comprised of at least one employee from each functional area across the ITAMS contract. The Safety Committee meets monthly or more frequently as necessary, and minutes from those meetings are maintained and posted on the ITAMS Intranet Site for review by all team members.

Team DB requires all employees to be accountable for:

- Their own safety and that of their co-workers,
- Being alert and reporting all SH&EC hazards immediately to their supervisor,
- Reporting any workplace injury, illness, or exposure immediately to their supervisor,
- Ensuring that they understand the job task they are being assigned, as well as how to safely operate all equipment required for each job task,
- Ensuring that they review any Job Hazard Analysis associated with a task that they are to perform,
- Using and operating equipment only if it is safe to do so, never removing or tampering with any safety devices,
- Attending and completing all required training sessions, and
- Understanding of, competence with, and rigorous implementation of all JSC safety procedures.

All of the Team DB employees are empowered to report any SH&EC issues directly to the CEO DB Consulting, OSHA, or NASA if they believe the risk has not been sufficiently considered/ mitigated/controlled by the ITAMS management team to effectively protect the public, Government employees, Team DB employees, other NASA Contractors, and NASA's high value assets. The employees may choose to remain anonymous at their option when making these reports. The Team DB CEO will conduct an independent investigation and report the results to the employee, ITAMS management, and NASA to support any required corrective action.

1.5 Assignment of Responsibility

As stated in Section 1.3 above, the ITAMS Program Manager has the ultimate responsibility for implementation of the SH&EC program with full authority granted by the CEO DB Consulting. The

functional area (line) managers and supervisors are responsible for implementation of the ITAMS SH&EC policy and procedures including all of the responsibilities defined for general employees in Section 1.4 above. The principal staff position responsible for SH&EC program implementation is the ITAMS PEO described in Section 1.5.1 below.

The primary approach to communicating SH&EC information is by inclusion in the normal management of day-to-day business operations of Team DB. SH&EC topics are always a priority during routine implementation of ITAMS activities. This approach is supplemented by specific emphasis during the following:

- Monthly Program Management Review,
- Monthly SH&EC Meeting,
- Weekly Staff Meetings,
- Periodic All Hands Meetings,
- Periodic Email "Safe – Alerts" (JF Form 1240 "JSC Notice of Safety or Health Hazard and Action Plan where applicable and other Team DB special notices),
- Management by Walking Around visits to work areas,
- Management providing "Spot Awards" in work areas for exemplary contributions to SH&EC, and
- Notices on the Team DB Intranet Site.

The formal documentation of all of the processes generated by Team DB for ITAMS SH&EC program will be included as a part of the AS9100 QMS. This will assure that a disciplined approach will be maintained to assure process control, document control, concurrence, approval, team access, related records control, process audits, and determination of process effectiveness. Team DB SH&EC processes will be coordinated and established with approval of NASA and other contractors for shared work site operations.

1.5.1 Safety Representative

The Team DB responsibility for SH&EC is the ITAMS PEO who is trained and certified to accomplish all of the responsibilities required for SH&EC and will participate in all meetings and activities related to the JSC Safety and Health Program. Due to the breadth and width of the different tasks and functions of this contract, every ITAMS work area manager and lead is trained to be an extension of the Performance Excellence Director (Safety Manager) for implementation and accountability for the provisions of this plan in their own work area.

1.5.2 Company Physician/Occupational Injury/Illness Case Manager

Team DB does not have an on-site company physician; however, onsite employees have emergency access to the JSC Clinic at Building 8 by walk-in or emergency service X33333. Off-site employees have access to 911 emergency medical services and local hospitals. The closest hospitals for our employees are:

- Clear Lake Regional Medical Center, 500 Medical Center Boulevard., Webster, Texas, telephone (281) 332-2511, and
- Christus St. Johns Hospital, 18300 St. Johns Drive, Nassau Bay, Texas, telephone (281) 333-5503.

In cases of acute medical emergencies, Team DB employees will be transported by EMS personnel to the Emergency Room at the closest hospital or to the hospital of their choice. For medical situations that are not acute, Team DB will assist employees in contacting their primary care provider. The primary point of contact responsible for the transfer or receipt of ITAMS medical data, in the event any employee suffers a work-related injury or illness is the Team DB Human Resource Manager. Team DB will notify the Clinic with the name, phone number, and Email address of the point of contact after contract award; and any changes that occur in the identity of the point of contact.

1.5.3 Building Fire Wardens

Team DB will provide a roster of fire wardens to the JSC Safety and Test Operations Division (mail code NS2), with copies to the Contracting Officer and COTRs within 15 days of the start of the contract and at the start of each succeeding contract year or when changes occur. The names, mail codes, phone

numbers, email addresses, pagers, will be provided. The Team DB fire wardens will be trained in accordance with JPR 1700.1.

1.5.4 Designated Safety Official

The Team DB designated Safety Official is the ITAMS PEO as defined in Section 1.5.1 above and is responsible for implementation of this plan and all formal contacts with regulatory agencies and NASA.

1.6 Provision of Authority

This S&H Plan is designed to meet all NASA, OSHA, EPA, and other applicable federal, state, and local regulations. This is assured by monitoring established SH&EC goals, establishing accountable program management, establishment of effective management systems with a verification process, and an accountable and trained work force.

This plan will be assessed for effectiveness as necessary or at least on an annual basis, to ensure that changes in federal, state, or local regulations are reflected in our program, policies, and procedures. This review will be a responsibility of the ITAMS PEO and verified at the monthly safety meeting. Revisions to this plan will be submitted to the NASA/JSC Occupational Safety Branch and the Clinical Services Branch for approval in accordance with ITAMS QMS documentation and data control procedures.

1.7 Accountability

The ITAMS Program Manager is directly accountable to the CEO of DB Consulting for meeting the SH&EC responsibilities required in the ITAMS contract as measured by the Goals and Objectives stated in Section 1.2 above. The ITAMS Management Team and the collective workforce is accountable to the ITAMS Program Manager for implementation and compliance with this plan. The ITAMS PEO is accountable for providing the assurance and verification to the ITAMS management team that all provisions of this SH&EC Plan are in compliance with requirements. Accountability for effective implementation for SH&EC is to be clearly defined in every team member's performance plan.

1.8 Program Evaluation

The Team DB S&H Program Evaluation is an annual critical self-evaluation utilizing the Format specified in Appendix C of OSHA Directive Number CSP-03-01-003 latest version. An employee chaired subcommittee will conduct the annual critical self evaluation of the ITAMS SHEC program. In addition to an assessment of the progress on the Goals and Objectives specified in Section 1.2 above, the self-evaluation includes the following critical elements of the ITAMS S&H Plan:

- Management leadership and employee involvement,
- Worksite analysis,
- Hazard prevention and control, and
- S&H Training.

The ITAMS PEO will present status on the progress of the Goals and Objectives and the above critical elements at the monthly safety meetings in order to make a timely determination of the need for management response and corrective actions should it be required. These annual self-evaluations and the minutes of the monthly safety meetings will be placed on the Team DB Intranet site for access to all team members and NASA.

1.8.1 (RESERVED – Ref DRD-9)

1.8.2 Self-evaluation Report

A written critical self-evaluation report will be delivered to NASA on an annual basis using the format and content described in Section 1.8 above. This report will be provided to OSHA when VPP status is achieved.

1.9 Miscellaneous Reports

The following reports are acknowledged as standing requests from the Government on the ITAMS contract and will be handled per Data Requirements Description (DRD-9) requirements as described below:

1.9.1 Roster of Terminated Employees

The ITAMS Human Resources Officer has the responsibility to report no later than 30 days from the end of each contract year the Roster of Terminated Employees from Team DB to the JSC Occupational Health Officer. This report will be dated with the identification of Team DB and the contract number. All terminated personnel will be identified by name including social security number and the date of termination. The name, address, and telephone number of the ITAMS Human Resources Officer will be listed on the report as the point of contact.

1.9.2 Material Safety Data Sheets (MSDS)

The ITAMS PEO is responsible for assuring that MSDS for hazardous materials brought onto Government property or included in products delivered to the Government are promptly provided either before the material is brought on Government Property or at the time it is delivered to the Government in accordance with OSHA, EPA, FED-STD-313, Texas State Regulations, and NASA requirements. One copy of each MSDS will be sent to the JSC Central MSDS Repository including information on new or changed locations and/or quantities normally stored or used. When the MSDS arrives with material that is needed for immediate use, the MSDS will be delivered to the JSC Central MSDS Repository no later than the close of business of the next working day after it enters the site.

1.9.3 Hazardous Materials Inventory

The ITAMS PEO has the responsibility for the compilation of an inventory report for all hazardous materials that Team DB has located on Government property in response to the quarterly call for this inventory and the instructions for delivery prepared by the JSC Occupational Medicine Occupational Health contractor, mail code SD33. This report will be completed in compliance with OSHA, FED-STD-313, and JSC requirements and will identify a) the material (product number, chemical, manufacturer, and NSN as available), b) the location by building, room, and area/cabinet designator, c) the quantity (number of containers, container size(s), type container, unit of measure, conversion factor, storage temperature and pressure, physical state/form, specific gravity, total pounds), d) peak quantity stored, and e) actual or estimated rate of annual usage of each chemical.

1.10 Government Access to Safety and Health Program Documentation

All of Team DB's SH&EC documentation, including relevant personnel records, are available for review or audit at the Government's request. Team DB will provide transparency into all SH&EC documentation and records to NASA. Team DB's SH&EC program provides for disciplined control and maintenance of documentation of SH&EC processes and records on the ITAMS contract based on the principles of the AS9100 Quality Management System. The ITAMS documentation management process provides the foundation and traceability required to comply with JSC NASA, federal, state, and local agency reporting requirements, as well as providing tools for proper management oversight and insight into the plan's performance. The means for identification, acquisition, and processing of SH&EC data; development of procedures; record keeping; statistical analysis and metrics; and provisions for Government insight are delineated in subsequent sections of this plan. Documentation that Team DB generates and provides as part of the Safety, Health, and Environmental Compliance Program are all accessible to NASA electronically via the Team DB web portal:

- S&H Plan (this Plan),
- Miscellaneous Reports defined in Section 1.9 above,
- SH&EC process documentation (Procedures, Work Instructions, Forms),
- OSHA 300 Logs,
- ITAMS Monthly Safety Meeting Minutes,
- Mishap Investigation Reports,
- Close Call Reports,
- Monthly Accident/Incident Summary Reports, 1627s, LO/TO tags, confined space entry procedures and permits, JSAs, and training records,
- Monthly SH&EC Metrics and Trend Analysis Reports,

- Lessons Learned,
- Current ITAMS Organization Chart, and
- Orientation Outline for all visitors to ITAMS work sites, including subcontractors.

Having reliable SH&EC data available is essential for statutory reporting, planning, permit applications, and achieving VPP Star status. Accordingly, the SH&EC performance information will be maintained on the Team DB web portal allowing easy access by the Government.

1.11 Review and Modification of Safety Requirements

Team DB will be responsive to requests from the ITAMS NASA CO/COTR to participate in and contribute to reviews and modifications to safety requirements as necessary. The ITAMS PEO will assure that this is accomplished in a timely manner and that new and revised SH&EC requirements are implemented by the ITAMS Program Manager. The new or revised requirements will be incorporated into the Team DB SH&EC Plan, training, process documents, and operational activities. Effective implementation of the changes will be verified by the AS9100 process audits.

1.12 Procurement

This S&H Plan is applicable for all subcontractor personnel and teammates working on the ITAMS contract. The term, Team DB, used in this plan is inclusive of all prime and subcontractor personnel involved in the implementation of the work for the ITAMS contract.

All suppliers of goods and services to Team DB (other than distributors of office supplies) will be held contractually responsible for compliance with OSHA, EPA, NASA, other applicable federal, state, and local requirements, and the contractual documents on which this plan is based.

All equipment, materials, and vendor services purchased for use in the ITAMS contract facilities are required by the AS9100 purchase order process to meet applicable SH&EC requirements. All purchase orders for new equipment, materials, and services (other than office supplies) will be approved by the ITAMS PEO to ensure purchase order requirements and specifications meet SH&EC and Quality Assurance requirements. The purchasing process will be documented and maintained in the ITAMS AS9100 Quality Management System. The purchase of new chemicals which are not currently on the chemical inventory list will require that a Hazardous Material/Chemical Request Form be completed and approved prior to purchasing or bringing new chemicals into ITAMS contract facilities. A risk assessment will be conducted for all purchases that are deemed to have an added SH&EC risk associated with their acquisition and implementation will have a safety analysis and risk assessment completed prior to approval of the purchase order. NASA will be consulted and provided the risk assessment and mitigation strategy prior to the release of any ITAMS purchase order that increases the baseline risk.

1.13 Certified Professional Resources

Team DB has access to Certified Safety Professionals through team members MEI who is currently working on JSC's Center Institutional Safety Services contract and Wyle Integrated Science and Engineering Group's Bioastronautics Contract. These professionals provide consulting services on SH&EC issues and are active and current on worksite safety analysis, hazard prevention, and hazard control in all areas of JSC operations. Certified Industrial Hygienists are available through team member Wyle who currently has the JSC Occupational Medicine/Occupational Health contract and the JSC Bioastronautics Contract. They are active and current in all areas of JSC operations associated with occupational health issues.

2.0 WORKSITE ANALYSIS

2.1 Analysis of Worksite Hazards

Analysis of hazards and potential accident scenarios including the determination of the associated risk levels are necessary in implementing Team DB's preventive strategy for avoiding SH&EC incidents.

The specific detailed procedures for conducting analysis of worksite hazards will be documented in our System Safety Process (Plan) that is a part of the AS9100B Quality Management System. The Team DB System Safety Process is compliant with NPR 8715.3C, JPR 1700.1, and will used methods defined in

JSC 17773 and NASA STD 8719.13B appropriate to the hazard type, and will be submitted to NASA for review and approval as a part of this plan submission

Worksite analysis for the ITAMS contract is conducted on a lifecycle basis beginning with initiation/early design through disposal/termination of each system or operational activity. Hazard analysis is updated based on lifecycle progression, modifications and changes, acquisition of new information from operations trends and events, and on a minimum interval of at least every 5 years. All available information is considered when a hazard analysis is conducted such as results of surveys and inspections, related close calls, mishap investigations, lessons learned, preventive and reactive maintenance records, system failures, records of related injuries and illnesses.

Team DB will make an assessment of all hazards identified with the ITAMS contract after contract award is received and prior to the start of any work where a hazard has been identified by any team member. Hazard analysis, accident scenario analysis, and the assessment of risk is conducted as a team event facilitated by the ITAMS PEO or another trained team member. The analysis team membership is comprised of personnel who will do the work, their supervisors/managers, and bargaining unit representatives where applicable, and includes any subject matter technical experts as needed. All risks resulting from hazard and accident scenario analyses are ranked in accordance with the risk matrix defined in JPR 1700.1. The results of all hazard analyses, accident scenario analyses, the need for additional controls and mitigations, all supporting data, and the related risk assessments is provided to NS-2 for review.

On NASA property, where a hazard exists and is assessed to be immediately dangerous to life or health, Team DB will not initiate or continue any work and will report such hazards to NASA immediately after they are identified.

2.2 Industrial Hygiene

To ensure the prevention of occupational disease or injury, the ITAMS PEO oversees and administers the industrial hygiene (IH) program. This program incorporates the 4 classic industrial hygiene processes of anticipation, recognition, evaluation and control of physical, chemical, biological and ergonomic hazards. The anticipation and recognition phases of the program are implemented through several mechanisms. Workplace hazards are evaluated through sampling or monitoring methodologies, exposure calculations, or other industrial hygiene techniques. If onsite industrial hygiene sampling and analysis is needed for the ITAMS contract, the ITAMS PEO will contact the onsite Occupational Health Office and make a specific request for the type of industrial hygiene monitoring that is needed.

Occupational hazards are controlled in the following order (where possible): engineering controls (e.g. isolation, exhaust ventilation), administrative controls (e.g. regulated chemical compliance programs), or personal protective equipment.

Examples of program elements include:

- Interface with the JSC HAZMAT database,
- IH exposure assessments,
- PPE assessments,
- Target organ assessments,
- Radiation Safety Program, and
- Ergonomics Program.

In circumstances where ITAMS employees and subcontractors are located in JSC facilities, the ITAMS PEO serves as liaison to the JSC Occupational Health Office to ensure program implementation needs, such as exposure monitoring, are satisfied. In the event the JSC Occupational Health Office cannot support monitoring needs, the ITAMS PEO will arrange for the sampling from another source and submit a survey report to JSC within 15 days of receipt of results.

2.3 Hazard Identification

Hazard Identification involves a comprehensive understanding of the potential for an undesirable event occurring in the workplace that could result in an injury, occupational illness, or damage to facilities and

equipment. In addition, combinatorial events made up of hazards and related contributory events such as human factors (potential accident scenarios) that could result in high severity outcomes must be considered as well. Hazards and potential accident scenarios are identified, analyzed, and documented for each work area occupied by ITAMS personnel. Team DB utilizes specialized expertise available within DB Consulting and MEI for specialized analytical skills such as accident scenario modeling and statistical analysis. Work processes, equipment operation, facility factors, construction work accomplished by NASA or other Contractors in the nearby vicinity of ITAMS work sites is also factored into hazard analyses where possible contributions to safety or occupational illness could result.

Hazard analysis is focused on the types of hazards expected to be found in the ITAMS work places and includes electrical/electronic systems, software systems, mechanical systems, hazardous materials, safe lifting, fire safety, slips, trips and falls, ergonomic conditions, other contractor operations, maintenance actions, the introduction of new technologies, LASER devices, multi-media support to test operations, human factors and process complexity, and general office safety practices.

Effective hazard identification by Team DB consists of the following elements:

- Use of trained analysts,
- Team approach to assure needed skills involved regarding knowledge of systems (H/W & S/W), operating processes, and interactions with other activities such as the facility manager,
- Leadership and facilitation by PEO,
- Use of disciplined and proven analytical methods,
- Plan for lifecycle milestone reviews and updates as necessary based on new information/modifications.
- Assessment of risk for identified hazards, and
- Documentation and submittal to NASA.

2.3.1 Comprehensive Survey

After ITAMS contract award and prior to the start of any work or tasks, Team DB will assess all identified worksites using the process identified in Section 3 of this Plan. This assessment process encompasses facilities, equipment, materials, processes, and the potential interactions of work performed by NASA or other Contractors.

2.3.2 Change (Pre-use) Analysis

Prior to startup, changes to system or operational procedures, modifications, implementation of new technology, introduction of new materials, maintenance operations, movement of system or operational process to a new location, changes in staffing, changes in regulatory and/or NASA requirements, are analyzed for impact to this S&H Plan. These changes may impact other processes such as operational procedures, preventive maintenance procedures, or interactions associated with work performed by NASA or other contractors.

The baseline risk for a given hazard may change due to temporary actions which alter the work environment such as construction or facility modifications. Where these temporary changes in the work environment are identified and found to raise the hazard level, a Safe Alert is issued to all employees in that work area. Updates to baseline hazard analyses and new hazard analyses are provided to NASA for review and approval.

2.3.3 Hazard Analysis

Hazard analysis techniques used by Team DB analysts are tailored to the type of hazard and the degree of risk it represents. The ITAMS PEO determines the technique to be utilized for any identified hazard or potential accident scenario; whether it derives from the facility, hardware systems, software, operations processes, materials utilized, waste management, maintenance procedures, common-cause events, interaction with work performed by NASA or other Contractors, and the state of available knowledge and its uncertainty about the hazard. The initial assessment of the risk utilizing the risk matrix defined in JPR 1700.1 will influence the approach and method required for the hazard analysis. Team DB personnel are trained and maintain proficiency in the hazard analysis techniques defined in JSC 17773. Hazard analyses and report formats will be in compliance with JSC 17773.

All hazard analyses and their resulting risk assessments are documented and reviewed by the ITAMS Program Manager and submitted to NASA for review and approval. Records are maintained in an online database for team access and utilization.

2.3.4 Flow of Comprehensive Survey into Analysis Products

Reference the process diagram in Section 3.1 of this plan entitled "Team DB Hazard/Risk Management Process" depicting the life cycle process used by Team DB for conducting SH&EC hazard analyses. Every hazard identified by Team DB is processed using this process. Unless a hazard is completely eliminated (closed), in order to reduce or eliminate the remaining risk, our process maintains tracking and surveillance over hazards utilizing methods defined in Section 3.2 of this Plan . Team DB employees, NASA, other Contractor's personnel, and the facility managers are made aware of hazards as described in Section 3.12.1 of this Plan.

2.4 Inspections

Team DB conducts the inspections listed below in order to sustain a safe workplace for all of the team's employees, for protection of the public, Government employees, other NASA Contractors, and NASA's high value assets. Documented procedures, checklists, and records for inspections are controlled by the AS9100 QMS. Records of all inspections are maintained on the Team DB Intranet Site for access by all employees.

SH&EC Inspections include:

- Program Manager Inspections -The ITAMS Program Manager conducts inspections of all ITAMS work facilities on an annual basis or more frequently as needed based on results of trend analysis, the introduction of new equipment, processes, technologies, or other major changes.
- ITAMS Managers, Leads, and safety committee members self inspections—Managers and/or leads conduct formal inspections of their spaces on a monthly basis. (Bargaining unit employees are included where applicable.) The ITAMS manager, lead, and/or safety member provides the results of these self-inspections to the ITAMS PEO for inclusion in the monthly safety meetings.
- 5S Program Inspections - (Sorting, Straighten, Systematic Cleaning, Standardizing, and Sustaining) inspections are conducted on a weekly basis by a lead or supervisor in every ITAMS work area. The basic 5S's provide a foundation for maintaining an environment for a safe workplace. The 5S checklist includes safety items appropriate for that area (the 6th S). The results are maintained and kept up-to-date on a radar chart posted in each work area for visibility to all employees, Team DB management, and NASA. This program provides frequent surveillance to detect the small changes that may creep in and adversely affect SH&EC performance.
- Annual Evaluation of Hazardous Waste Management—The ITAMS PEO conducts an annual evaluation of hazardous waste management activities and report the result to the ITAMS Program Manager

SH&EC findings from inspections that cannot be corrected on the spot are documented on a Corrective Action Form and submitted to the ITAMS PEO for assignment of action for determination of root cause and implementation of timely corrective action. Verification that the SH&EC inspections are conducted properly and are effectively implemented is by the AS9100 internal audit process.

2.5 Protective Equipment

To protect employees from potential hazards in the workplace, Team DB will provide PPE as appropriate to control the hazard after engineering provisions, safe work practice and administrative controls are implemented as appropriate. The ITAMS PEO, supported by area managers/leads and subject matter experts when required, will assess work sites and operations to identify potential hazards that necessitate the use of PPE. The ITAMS PEO is responsible for obtaining the equipment and enforcing its use. Defective or damaged PPE is taken out of service and replaced as necessary.

All employees required to use PPE are trained and required to demonstrate the ability to use PPE properly, and to understand any limitations, proper care, maintenance, storage, useful life, and disposal of the PPE. Retraining is conducted to assure proficiency or when changes are required. Records of use, time/cycles, repairs, maintenance, as recommended by the manufacturer or as determined by its use environment are maintained.

Use or disclosure of data contained herein is subject to the restriction on the title page of this proposal.

2.6 Employee Reports of Hazards

Consistent with Team DB's SH&EC policy, goals and objectives, the management leadership establish and maintain an environment that encourages and rewards full and active, reprisal free participation by all. This includes reporting of hazardous conditions, close calls, and providing recommendations to managers on how to abate the condition. Establishing this environment begins with the hiring process when the initial conditions for employment are explained and is followed by the initial SH&EC awareness training upon employment. An important aspect of the preventive strategy of Team DB's SH&EC program is timely input from workers who are closest to the source of a suspected hazard or a close call, which may result in the avoidance of a mishap.

The following methods are used to create a reprisal free environment for ITAMS workers:

- Giving "Spot Awards" in the work area to employees who report potential hazards. Reporting of information that could lead to avoidance of a SH&EC mishap is considered a "good thing" in the Team DB culture,
- Major Safety Award given annually to the employee who makes the most significant contribution to ITAMS workplace safety and occupational health. Reporting potential hazards and close calls are part of the criteria for this award,
- Upon hiring, training about Team DB's SH&EC policies with an annual refresher for all employees,
- Training on recognizing specific types of potential hazards in the work areas. (Slips, trips, falls, safe lifting, ergonomics, safe equipment operation, electrical, lock out – tag out, confined space entry, hazardous materials handling, etc. as applicable), and
- Timely feedback to employees identifying potential hazards with planned corrective action.

No Team DB employee will be required to conduct any work that he/she believes is hazardous or may result in a SH&EC incident. Management provides timely response to all reports of potential hazardous conditions in the workplace, and provides the necessary controls and mitigation before work is allowed to proceed.

2.7 Accident and Record Analysis

2.7.1 Mishap Investigation

All close calls and mishaps happening as a result of work accomplished for the ITAMS contract requires a mishap investigation meeting the requirements of Chapter 2-7 of JPR 1700.1 and NPR 8621.1. The purpose of the investigation is to determine root cause and to initiate corrective action that will prevent a future mishap, and is not to find fault, initiate disciplinary action, or defend the company from lawsuits. Investigations of Type A and B mishaps or close calls that might result in a Type A or B mishaps are typically conducted by the Government with contractor support. Type C and D mishaps and close calls may be conducted by Team DB unless NASA decides that it should conduct the investigation. Team DB is responsible to investigate all mishaps, including environmental mishaps that involve only Team DB personnel or equipment at an off-site location. Mishap investigations conducted by Team DB are due to be completed within two weeks of the mishap event unless an extension is requested from the Safety and Test Operations Division due to unusual circumstances delaying the investigative activity.

The mishap investigation begins after the initial emergency conditions are controlled, injured persons receive medical help, further injury and damage is prevented, and immediate notification of NASA (NS2) is complete and followed by entry into the NASA Incident Reporting and Information System. OSHA is notified within 8 hours of any mishap causing a death or hospitalization of three or more persons. The method for conducting mishap investigations includes the following steps:

- Consult with NASA JSC NS and/or the Environmental Office when starting the investigation for all accident types. Request NASA support as necessary, especially when external federal, state, or local authorities require notification. Get Go/No-Go for NASA to lead the investigation, and/or identify NASA participation in contractor lead investigations,
- Identify potential witnesses and get statements from them. For Type A and B Mishaps provide a candidate witness list to NASA for their use in collecting statements,
- Secure and protect the mishap scene,

Use or disclosure of data contained herein is subject to the restriction on the title page of this proposal.

- Safeguard all evidence,
- Secure all electronic and paper records,
- Refer any media requests for information to the JSC Public Affairs Office,
- Provide any technical experts/consultants needed for mishap scene review or data analysis,
- Interview witnesses and maintain the witness statements confidential,
- Examine all evidence and analyze all mishap data to the investigation level defined in JPR 1700.1 Chapter 2.7 Paragraph 12,
- Document results of the investigation including action plan and/or actions taken in accordance with Figure 5 and paragraph 7 of NPR 8621.1,
- Document the results of the investigation of an incident resulting in an injury using NASA Form 1627,
- Close call investigations are documented on the close call form JSC Form 1257,
- The ITAMS Program Manager, ITAMS PEO, and the manager of the area where the incident occurred review and concur on all incident investigation reports,
- The facility manager reviews and concurs on all proposed action if the mishap involves the facility or hazardous materials,
- Obtain NASA endorsements on the report as specified in NPR 8621.1, and
- All lessons learned are attached to the final mishap or close-call reports and submitted to NS. The lessons learned are submitted into the NASA lessons learned electronic database.

The close-call and mishap investigation method above is documented and maintained in a detailed procedure with required checklists and forms in the Team DB AS9100 Quality Management System where processes are controlled and verified through the QMS internal audit process.

2.7.2 Trend Analysis

The ITAMS PEO is responsible to assure trend analysis of relevant data regarding events such as close-calls, mishaps, occupational illnesses, environmental releases, equipment failures, and indicators of process performance, systems performance (equipment and software), inspection and audit results, is conducted and reported in order to sustain Team DB's preventive approach to achieving the goals and objectives stated in Section 1.2 of this plan. This includes evaluation and consideration of lessons learned from sources both within and outside the ITAMS contract, including outside of NASA, that may relate to the conduct of the work accomplished on the ITAMS contract.

Common cause contributors to SH&EC events are typically the result of maintenance practices, design practices (hardware and software), and human errors in implementing procedures. Mitigation of common causes for SH&EC as well as for completion of contract performance requirements within ITAMS begins with the initial hazard analysis and is continually updated based on the results of trend analysis. Online databases cataloging common cause data is accessed to look for information on work and systems similar to ITAMS as a resource. Common cause analysis is important for assuring contract performance requirements as well as for SH&EC. Trending of common cause events and their mitigation is an important factor in preventing mishaps.

The SH&EC trend information is maintained on the Team DB Intranet Site on dash board type displays and is updated monthly to provide access to current information by all employees, team management, and NASA. This monthly report is considered an action-based indicator providing feedback on contract SH&EC performance and as a trigger for corrective action if needed..

NASA is provided with JSC Form 288 "Accident/Incident Statistics reports to include new and open mishaps, vehicle accidents, incidents, injuries, fires, and close calls by the 10th day of the month for the preceding month. Negative reports are provided by the same date. These reports are provided by email to JSC-Safety-Report-Submittals@nasa.gov.

NS-2 OSHA 300 and 300A logs are provided to NASA by Team DB no later than February, 15 of each year the contract is in operation.

3.0 HAZARD PREVENTION AND CONTROL

3.1 Identified Hazards Must Be Eliminated or Controlled

Elimination and control of hazards at JSC and WSTF is critical due to the multiple employer environments at JSC with the additional potential of proximity to the general public in certain areas. Hazards identified through inspections, investigations, employee reports, close calls, common cause analysis, and accident scenario analysis located at JSC, Sonny Carter Training Facility, or Ellington Field meeting the following criteria are entered and maintained up-to-date in the NASA online Hazard Abatement Tracking System (HATS) at http://www6.jsc.nasa.gov/safety/HATS/:

- Hazard with risk assessment code (RAC) of 1 or 2,
- Hazards that cannot be fully abated within 30 days,
- Actions arising from mishap investigations (including investigation boards),
- Actions from close call investigations not expected to be completed within 30 days of discovery in the investigation,
- Where Center funding is required for abatement, and
- All hazards that the Safety and Test Operations Division designates for tracking in HATS.

The current status of all hazards identified for the ITAMS contract is maintained in the Team DB risk management database available to Team DB employees and NASA. The steps in the Team DB Hazard/Risk Management Process are shown in **Exhibit 3.1-1** below.

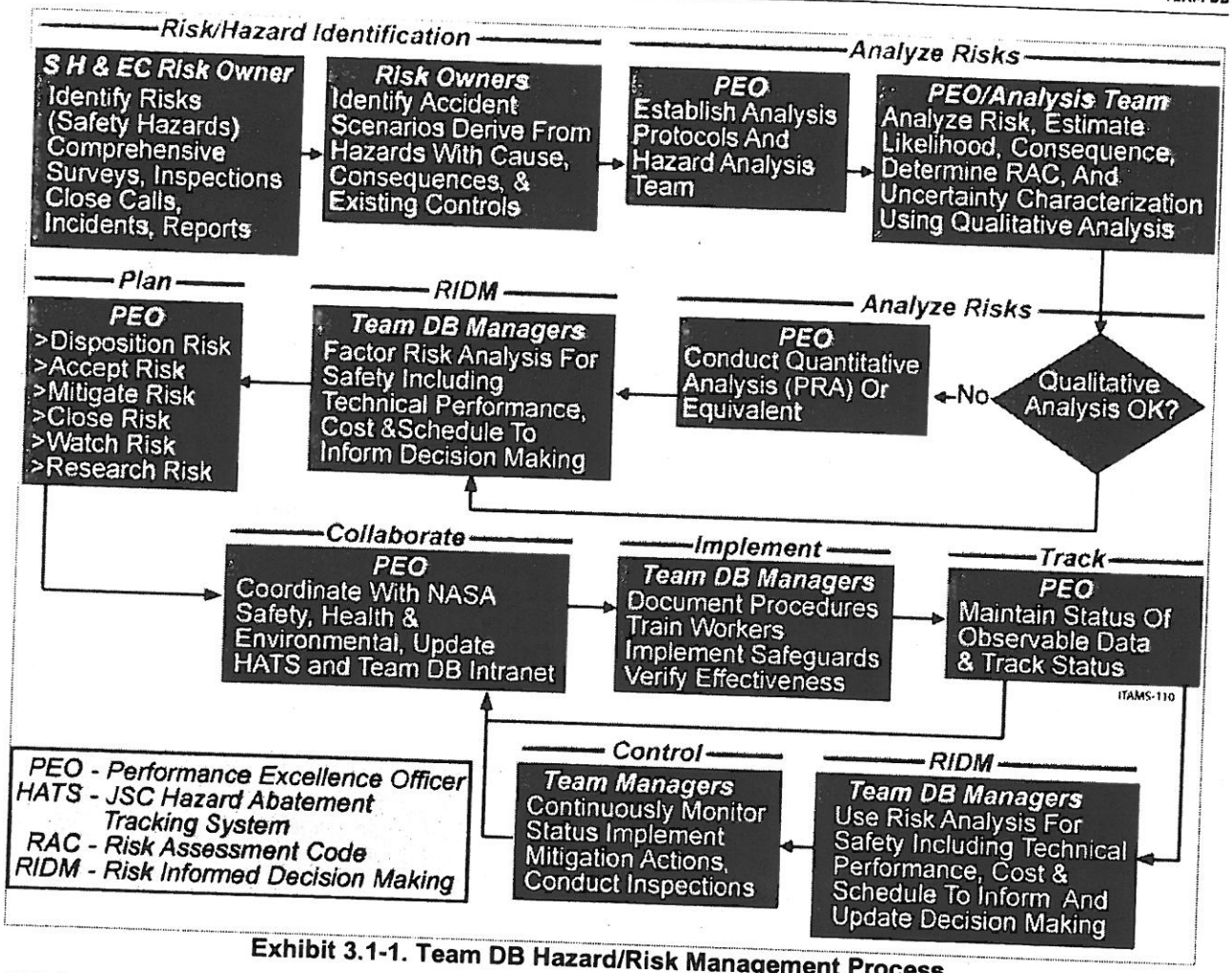

Exhibit 3.1-1. Team DB Hazard/Risk Management Process

3.2 Appropriate Controls

The ultimate goal of system safety engineering is to eliminate all causal elements of an existing hazard or potential accident scenario. Due to the inherent nature of specific hazards, elimination may not be possible and the implementation of controls directed at the causes may be required using the following risk reduction sequence:

- Engineering controls
- Design it out
- Design in protective safety devices (can involve software)
- Administrative controls
- S&H rules
- Use of personal protective equipment (PPE)
- Hazard control Programs.

Hazards having multiple causes may require one or more of the above risk control strategies in order to mitigate all causes involved in any specific hazard. Verification of the effectiveness of hazard controls is accomplished through analysis and modeling, demonstration and evaluation under controlled conditions, evaluation of training effectiveness, Process Failure Mode and Effects Analysis (PFMEA's), and regular process audits. The erosion of hazard controls is a major contributor to incidents, and the work processes are documented as an element of the Team DB QMS; and are audited on a regular basis as a part of the QMS Internal Audit Process.

The ITAMS PEO utilizes the risk informed decision making process as required by NPR 8715.3C "NASA

General Safety Program Requirements" as a methodology for making decisions regarding acceptable levels of residual risk for identified hazards. All operations with a hazard of RAC of 1 or 2 are terminated immediately until controls are established that reduce the RAC to 3 or higher. The risk management process for safety is to reduce the residual risk as low as reasonable by considering the achievable risk level against process technical performance, cost of control actions, and schedule considerations. The scope of the hazard analysis and its associated risk informed decision making includes all sources of hazards in the ITAMS work environment to include human factors, processes, equipment, software, hazardous chemicals, and facilities. NASA is notified where risks exist to emergency service providers such as fire, ambulance, and security personnel, other incident responders; and/or safety, health, and environmental officials to assure the necessary coordination.

3.3 Hazardous Operations and Processes

Hazardous operation, as defined in Chapter 5.8 of 1700.1, is identified by the initial comprehensive survey of work facilities, assigned task orders, and is updated based on technology, equipment, and task order revisions. All hazardous operations are subjected to analysis as shown in the Team DB Hazard/Risk Management Process shown in Section 3.1 above. The ITAMS PEO collaborates with appropriate NASA Safety, Occupational Health, and Environmental personnel, and the facility manager regarding mitigation steps to include procedure approval, required training, certification criteria, and process validation. Where permits and notifications are required for hazardous operations, no work will begin until they are completed and approved, such as for confined space entry, and entry into asbestos containing areas.

3.4 Written Procedures

Procedures utilized for the ITAMS operations are documented and included in the AS9100 Quality Management System. All procedures, forms, inspection checklists, and records utilized are documented, maintained, verified, and controlled in accordance with the requirements of AS9100, and made available to all team members. All procedures, developed to support the requirements stated in this S&H Plan are documented in a format consistent with the requirements of DRD 10 "Standard Operating Procedures" and supplemented as necessary with online links to technical reference information. All work performed by ITAMS including operations, testing, maintenance, handling of hazardous materials, hazardous waste operations, including the systems safety activities described in this plan are documented in controlled procedures. This is verified by the AS9100 internal audit process and the third party audits conducted by the Quality Management System Registrar.

3.5 Hazardous Operations Permits

A hazardous operations permit is required prior to each single operational event involving entry into confined space, hot work, and Category I and II hazardous operations defined by the criterion in JPR 1700.1 Chapter 5.8.

The ITAMS PEO and work area manager and/or lead are the joint approval authorities for hazardous operations permits. These managers will assure that the necessary training, the proper PPE precautions, and safety procedures are used before approving a hazardous operation permit. All hazardous operations conducted by Team DB personnel will require documented procedures that are compliant with the requirements of the AS9100 QMS.

3.6 Operations Involving Potential Asbestos Exposures

Team DB does not anticipate that any ITAMS employees will be required to work with, handle, or control asbestos material in a direct manner, however, compliance with the JSC Asbestos Control Program (per JPG 1700.1 and JPG 8800.1) will be assured by awareness training to all employees who work in JSC Buildings. Employees are made aware of any asbestos containing materials (ACMs) in their work areas and the buildings they work in; and trained on identification of and the precautions to take if they suspect a breach of the containment and release of (ACMs) including notification of JSC Occupational Health.

The ITAMS PEO is trained to be the asbestos competent person as defined in OSHA 29 CFR 1926.32(f) to assure that proper training, medical, and PPE requirements are current and complete; for any work in the category of JPR III-12 and III-13 accomplished by Team DB personnel. Detailed procedures for work operations involving potential asbestos exposures are documented, controlled, maintained, and verified

by the AS9100 QMS and will be consistent with the requirements of Part 12, "Asbestos Control Requirements" JPR 1700.1.

3.7 Operations Involving Exposures to Toxic or Unhealthful Materials

Team DB will review applicable task information, procedures, equipment manuals, and material safety data sheets to identify potentially toxic or unhealthful materials and conduct a hazard and risk analysis. When a hazard is determined to exist, the ITAMS PEO will collaborate with JSC Occupational Safety Medicine for review and approval regarding the acceptability of the controls for the process to ensure that employee health is neither compromised nor jeopardized. If the hazard has potential impact to the environment, collaboration is initiated with the JSC environmental office for review and approval of procedures and controls. Detailed procedures for work operations involving potential exposures to toxic or unhealthful materials are documented, controlled, maintained, and verified by the AS9100 QMS

The principle operations involving exposure to toxic or unhealthful materials on this contract is the operation of the photographic laboratory located in JSC Building 8. Approximately 386 chemicals are listed for this facility in the JSC HAZMAT Database. Some of these chemicals are flammable, toxic or are corrosive. The use of these chemicals requires compliance with 29 CFR 1910.1450, "Occupational Exposure to Hazardous Chemicals in Laboratories", the Chemical Hygiene Standard and JSC JPR 1700.1, Chapter 6.8, Laboratory Safety and Health. Compliance with these requirements requires a Chemical Hygiene Plan and the appointment of a Chemical Hygiene Officer and the appointments are completed before the contract start date.

The ITAMS PEO reports any waste generated by the photographic chemical processing system as required. ITAMS photo waste generation is anticipated to be very low because of the effective maintenance and operation of the ZDS at Building 8P.

3.8 [Reserved]

3.9 Baseline Documentation

Facilities baseline documentation for IT and Multimedia hardware, software, and related support systems is maintained in accordance with the Government approved configuration management process (per DRD-1) for all systems defined under this contract. ITAMS will not change, modify, or relocate Government equipment or systems without prior approval unless otherwise stated in the approved Management Plan (DRD-1). ITAMS will provide, revise, and maintain a complete set of engineering and exhibit drawings, hardware and software configurations, specifications, and associated change documentation as directed. Detailed procedures for the implementation of the configuration management process are documented, controlled, maintained, and verified by the AS9100 QMS.

3.10 Preventive Maintenance

A preventive maintenance plan will be defined in detail based on the requirements of DRD 11 "Preventive Maintenance and Operational Readiness Documentation" for the ITAMS contract with approval by the Government. The preventive maintenance procedures are controlled and verified by the provisions of the AS9100 QMS. The preventive maintenance program is informed by the risk management process which factors into the maintenance procedures, consideration of risks that relate to safety, health, and environmental; for sustaining effective hazard controls. The preventive maintenance program is established to assure the reliability and availability of systems supporting NASA to meet service level goals, as well as being the first line of defense against the erosion of hazard controls. When weaknesses in design, inadequacies in the maintenance procedures, or other operational issues are discovered during maintenance operations which increase risk; corrective action will be initiated to address the problem and update applicable preventive maintenance procedures.

Maintenance, operational readiness, and repairs to equipment are the responsibility of the manager and/or lead in each area. In addition, employees are responsible for ensuring that work site equipment is well maintained and for notifying their managers if service, maintenance, or repair is needed. This continuous surveillance of equipment suitability, as well as systems not the responsibility of ITAMS, is augmented by the weekly 5S assessments in each work area.

3.11 Medical (Occupational Healthcare Program)

The health and safety of Team DB employees is of primary importance. A priority emphasis of our corporate mandate is to encourage a preventive approach regarding health maintenance, and to comply with OSHA requirements. We collaborate with responsible JSC organizations for monitoring the health of the ITAMS employees working in JSC facilities who may be exposed to chemical or physical hazards in the workplace. A comprehensive health maintenance program is developed and instituted upon contract award.

As stated in Section 2.3.1 of this Plan, a comprehensive survey of all worksites identified in the ITAMS contract is made that includes all of the involved facilities, equipment, materials, and processes and all activities that may represent a condition requiring medical consideration and surveillance will identified. The specific processes and the personnel performing those functions is identified and documented in detailed procedures maintained in and verified by the AS9100 QMS to include training requirements, specific medical surveillance requirements (physicals, hearing testing, ergonomic issues, etc.), required record keeping, PPE, and certifications if required. The request for Team DB employees requiring physicals/medical testing is requested from the JSC Occupational Medicine Clinic utilizing JSC Form 270 "Johnson Space Center, Job Related Physicals". The evaluation of work processes is continuous and is updated as new technology, equipment, or materials are being planned for use by ITAMS, and changes in the existing baseline processes are being made.

Team DB's interest in protecting and promoting the health of employees goes substantially beyond dealing with the identified hazards associated with the direct conduct of the work processes. A robust employee health and fitness program will be initiated and is intended to benefit employees both on and off the job. Team DB will establish corporate membership at the Gilruth Center Fitness Facility for use by all team members who desire to use it. Managers and leads are responsible to report signs of stress and other related behaviors so that corrective action may be taken to avoid serious health problems.

Team DB has a "Clinic First" policy for first aid and other initial medical treatment of an on the job illness or injury at JSC. CPR and AED training is provided to selected employees for use in stabilizing employees while waiting for ambulance response. Should it be determined that there is need based on a hazard requiring immediate response, "off-shift" work, or work at a remote location for a first aid type kit, the request will be submitted to the JSC Occupational Health Branch (SD3) for approval and collaboration on specific instructions for its use. It is Team DB policy for employees who have had a job related injury or illness that follow-up treatment and return to work planning is informed by recommendations from the medical professionals involved in the treatment. The Team DB Human Resources lead is responsible for collaboration with the JSC Nurse Case Manager to coordinate the return to work planning.

3.12 Hazard Correction and Tracking

Hazards are identified, documented, and controls established to reduce the RAC to an acceptable level by utilizing the risk informed decision making process. Section 3.1 of this plan discusses the Team DB approach to implementing controls for hazards and their maintenance in the NASA online Hazard Abatement Tracking System (HATS) at http://www6.jsc.nasa.gov/safety/HATS/.

3.12.1 Personnel Awareness of Hazards

Personnel awareness of potential unsafe conditions and approved countermeasures are provided to employees, NASA, and other contractors are made in the following ways:

- Direct contact from Team DB responsible work area manager to all personnel in the work area, the facility manager, and emergency response personnel as necessary,
- Use of HATS as identified in Section 3.1 of this plan,
- Written notice (JSC Form 1240) posted in work area with barricades, safeguards, etc. as needed,
- Email "Safe Alert" to affected employees, and
- Notice on Team DB Web Portal.

Close liaison is maintained with the facility managers for the identification of workplace hazards and the communication of abatement status. Consideration is given to personnel in the work area who are handicapped or have special needs. The nature of the work performed on this contract has close parallels

with like work performed at other NASA and contractor facilities, and the NASA Lessons Learned Information System is utilized to understand the nature of incidents and mitigation strategies that could potentially apply to the processes of the ITAMS contract. ITAMS provides information on lessons learned for entry into the database that result from the performance of this contract.

3.12.2 Interim and Final Abatement Plans

The ideal abatement for workplace hazards is elimination of the hazard where possible. Hazard controls are implemented using the risk reduction sequence defined in Section 3.2 of this plan. Where hazards are identified there may be time required to implement the necessary controls to reduce the risk to its final lowest level thus requiring interim abatement actions anytime operations are allowed to continue that involve that hazard. Interim abatement actions are developed to reduce the RAC of a hazard (must be RAC 3 or lower) by directly addressing those hazard causes that have the potential to result in an incident scenario. Interim abatement actions are temporary and are utilized to protect the workforce until final abatement is in place.

Final abatement of hazards reduces the risk to an acceptable level as determined by the risk informed decision making process utilizing the risk reduction sequence identified in this Plan. Final abatement is targeted to be implemented within 30 days of the identification of the hazard, however this may be dependent on required engineering activity, facility and/or system modifications, purchased equipment, testing, or other actions requiring longer than 30 days. Hazard identification and the status of interim and final abatement plans are maintained in the HATS as well as in the Team DB Intranet Site. Hazard abatement planning is accomplished by utilizing a team approach as described in Section 2.3 "Hazard Identification". Facility managers are included in all aspects of hazard identification and control within their respective facilities. Collaboration with NASA is maintained throughout the entire process, especially where extensions of time or additional resources are needed to complete the hazard abatement.

3.13 Disciplinary System

Every Team DB employee (inclusive of all subcontractors) is expected to participate willingly and actively in the ITAMS S&H program for the benefit of themselves and their fellow workers. Team DB's system for ensuring S&H discipline by all employees is through the use of involved and engaged leadership that demands compliance and sets the example; supplemented with the necessary training for the team members to conduct the work processes in a safe and compliant manner. In the unexpected case of willful safety violations, horseplay, or repeated failures to comply with safety rules and procedures, disciplinary action resulting in verbal warning, written reprimand, suspension, or dismissal will be taken depending on the seriousness and specifics of the violation.

3.14 Emergency Preparedness

Emergency planning by Team DB for the ITAMS contract includes two basic components; support to JSC for the planning and implementation of emergency activities, and planning for maintenance of business continuity for the Team DB enterprise to meet its contractual obligations to NASA. The types of emergency preparedness scenarios that will be detailed in procedures covered in the AS9100 QMS are:

- Hurricane,
- Fire,
- Pandemic Influenza,
- Workplace injuries,
- Hazardous Material Events, and
- Others – Bomb Threats.

The emergency preparedness procedures (a.k.a. Emergency Action Plans) for each of these scenarios are documented in compliance with JPR 1040.4 - JSC Emergency Preparedness Plan, JWI 1040.24 - JSC Hurricane Management Plan, JPR 1700.1 - JSC Safety & Health Handbook, and OSHA 29 CFR 1910.38 are specific to the work places occupied by the ITAMS workforce. Some of the ITAMS IT systems are necessary to support JSC's emergency preparedness planning and emergency response actions; requiring close collaboration with the JSC Emergency Planning Office. These procedures address specific steps and timelines for preparation for hurricanes and pandemic influenza events, both

for maintenance of and restoration of required services; and the protection of equipment and personnel. Procedures for rapid onset emergencies such as fire, workplace injuries, hazardous material events, severe weather, and bomb threats will be developed to protect personnel, property, and vital records. These procedures document all actions from the first alarm or indication of an emergency event, required notifications, work site stabilization, evacuation strategy and routes, employee accountability, consideration for handicapped and special needs employees, assignment of specific roles such as fire warden duty, safe return to work site, and a post event evaluation to determine needed corrective actions and lessons learned. The facility managers are requested to approve emergency preparedness procedures prior to submittal to NASA for approval.

All team members are trained on the specific emergency preparedness procedures that pertain to their work areas. The emergency preparedness is assessed for effectiveness by the results of regularly scheduled audits required by the AS9100 QMS, evaluation of fire drills conducted by NASA, assessments of training effectiveness, and the results of drills/walkthroughs utilized to develop and practice procedures. Badge sized emergency action cards are provided to each employee detailing the priority sequence and phone numbers for notification to JSC emergency forces for their work area for different classes of emergencies.

The Team DB Emergency Planning Representative to NASA is the ITAMS PEO who is supported in the emergency planning and implementation by team members who have the technical knowledge in the different work areas. The Team DB Human Resources Manager supports NASA in planning the emergency response activities for Pandemic Influenza. The Pandemic Preparedness Planning Workbook is utilized to document and assure continuity of ITAMS vital services should JSC be severely impacted by a pandemic level influenza event.

4.0 SAFETY AND HEALTH TRAINING

4.1 ITAMS Safety and Health Training Program

ITAMS personnel are trained to meet the performance requirements of their work to insure that they can successfully accomplish both job related technical performance requirements as well as protecting themselves and others from injury and illness. Team DB personnel are required to be competent in meeting all of their work requirements on the basis of appropriate education, training, skills and experience. The detailed process for training, which includes S&H specific training, is documented, maintained, and verified as a part of the AS9100 QMS. Records for each employee include individual training requirements (training plan) and the status of completion of training are maintained as formal quality records, and are audited on a regular basis as a part of the QMS internal audit process.

4.2 Identification of S&H Training Needs

ITAMS training for S&H defined in the following categories:

- S&H awareness training for all employees upon hiring with emphasis on Team DB S&H policy, and the expectations of all employees for making a responsible and continued effort to meet the S&H goals and objectives defined in Section 1.2 of this plan,
- S&H training that applies to all employees to include hazard recognition, close call reporting, emergency preparedness, ergonomics, safe lifting, slips, trips, and falls, general office safety, driving on JSC safely, use of MSDS, how to access Team DB SH&EC expertise – all employees,
- Accident and close call investigation methods, hazard analysis, risk assessment process, CPR, AED, facility manager, fire warden – selected employees, and
- Work area specific S&H training for understanding the hazards, safe equipment operations, hazardous operations, required PPE, lockout tag out, confined space entry, asbestos control, laser safety, required records – job specific based on defined hazards.

4.3 Personal Protective Equipment (PPE)

Training in the use of PPE is job specific and includes providing the user with an understanding of the hazardous condition and how it is used to conduct the operation safely. The training includes why it is required, when it is required to be used, what its limitations are, how to use it correctly, and how to

maintain and care for it. The training is required prior to first use and is repeated as necessary to maintain user proficiency in its use.

4.4 Tailoring of Training

Section 4.2 of this Plan identifies the categories of S&H training for ITAMS and defines which types of training are required for all team members and which are specific to each work area and are directly job related. Individual training plans are developed for each employee that include the required S&H training. The ITAMS management team and supervisors have the responsibility to implement this S&H Plan and are required to have all of the training required for all employees plus any work area specific training in the areas they are responsible for. The management team is trained to understand the federal, state, and NASA regulations that apply to S&H programs.

4.5 Training Retention

The effectiveness of ITAMS S&H training and its retention is determined by having a management team present and involved in the day-to-day work processes and by monitoring the S&H metrics. The work processes are subject to audit by the AS9100 QMS internal audit process at regular intervals. The work place is surveyed weekly as a part of the 5S program that verifies that S&H provisions are maintained as required. Refresher training is conducted as necessary or as specified by course requirements. Team DB conducts annual awareness training updates for the team regarding S&H policy and requirements. The documentation and objective evidence providing the basis for personnel certifications are defined as quality records and are maintained in accordance with the AS9100 QMS.

4.6 Utilization of JSC S&H Training Resources

The ITAMS PEO coordinates with the NASA Occupational Safety Branch and the Occupational Health Officer for use of NASA provided training. It is anticipated that training for specific job related functions such as asbestos work, confined space entry, lockout/tagout and other JSC approved practices would be received from NASA.

4.7 Training Records and Materials

All ITAMS generated and otherwise purchased training material will be provided to NASA and other federal, state, and local agencies upon request. All training records are formal quality records maintained in accordance with the requirements of AS9100 QMS and are available to NASA and other federal, state, and local agencies upon request.

APPENDIX A - LIST OF SAFETY AND HEALTH RELATED AS9100 PROCEDURES

S & H Plan Reference	Procedure Title	AS9100 Clause
All	Control of Documents	4.2.3
All	Control of Records	4.2.4
1.3, 1.6	Management Responsibility	5.1
1.2, 1.8	Goals and Objectives Program Evaluation	5.4.1, 8.2
4.1 – 4.6	Competence, Training and Awareness	6.2.2
1.12	Purchasing	7.4
1.13	Utilization of Certified Professionals	7.5
1.4	ITAMS Safety and Health Committee	7.5
1.5.3	Building Fire Warden Support	7.5
1.93	MSDS Utilization	7.5
2.1	Worksite Analysis	7.5
2.3, 3.1, 3.2, 3.12	Hazard Analysis and Control	7.5
2.4	Safety Inspections	7.5
2.4	5S Program	7.5
2.5	Use of PPE	7.5
2.6	Employee Reports of Hazards	7.5
2.7.1	Mishap and Close Call Investigation	7.5
3.3, 3.4, 3.5, 3.6, 3.7	Hazardous Operations	7.5
3.14	Emergency Preparedness and Business Continuity	7.5
1.8.2, 2.7.2	Monitoring and Measurement	8.2, 8.4
All	Internal Audit	8.2.2
All	Continual Improvement	8.5.1
All	Corrective Action	8.5.2
All	Preventive Action	8.5.3

Attachment J-9
Management Plan

(To be provided by Contractor)

NASA Lyndon B. Johnson Space Center Information Technology and Multimedia Services (ITAMS) Contract RFP No. NNJ09244782R

Management Plan

June 3, 2010

Submitted by:

DB Consulting Group, Inc.
8403 Colesville Road, 10th Floor
Silver Spring, MD 20910
Voice: 301-589-4020
Fax: 301-589-4122
www.dbconsultinggroup.com

This proposal includes data that shall not be disclosed outside the Government and shall not be duplicated, used, or disclosed—in whole or in part—for any purpose other than to evaluate this proposal. If, however, a contract is awarded to this offeror as a result of—or in connection with—the submission of this data, the Government shall have the right to duplicate, use, or disclose the data to the extent provided in the resulting contract. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets marked with the use or disclosure legend.

DB Management Plan
For ITAMS

Submitted by DB Consulting Group, Inc.

ITAMS Program Manager
DB Consulting Group, Inc.

Performance Excellence Manager
DB Consulting Group, Inc.

JSC COTR

JSC Contracting Officer

JSC Occupational Safety Branch/NS2

JSC Occupational Health Officer

Use or disclosure of data contained herein is subject

Change Record

Rev.	Date	Originator	Description
Baseline	12/2/2009	Jeff White	Initial Release
Rev 1	6/3/2010	Jeff White	Competitive Range Weakness Resolution

Use or disclosure of data contained herein is subject

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The Management Plan Compliance Matrix	
Section	Proposal Section
b) Provide a Management Plan as described in DRD-1, *Management Plan* and a Government Property Management Plan as described in DRD-7, *Government Property Management Plan.*	2.1.6 Management Plan
A. The Management Plan shall include the plans for coordination and execution of all contract technical and administrative tasks, including resources management, contract administration, logistics and property management, documentation management, personal identity verification (PIV), and acquisition management. The Management Plan shall be updated to reflect significant changes that occur after its initial publication. The Management Plan shall be an umbrella document, which encompasses and integrates all Information Technology and Multimedia Services (ITAMS) management activities. As a minimum, the Management Plan shall cover:	1. Introduction 8.1 Resources Management 8.2 Contract Administration 8.3 Logistics and Property Management 8.4 Documentation Management 8.5 Personal Identity Verification 8.6 Acquisition Management
The significant policies and plans of all aspects of the ITAMS contract.	8. ITAMS Policies and Plans
Definition of the Contractor's organization (prime and subcontractors), including organization charts, with emphasis on roles and responsibilities of organizational elements.	2. Organization Organization Chart
Levels of approvals.	3. Levels of Approvals
Flow of authority.	4. Flow of Authority
External interfaces with the Government and other contractors.	5. External Interfaces
Functional relationships between internal organizational elements that differ from the flow of line authority.	6. Functional Relationships
The relationship between and integration of contract DRDs to the overall management of the contract.	7. Relationship and Integration of Contract DRDs
B. The Configuration Management Plan shall prescribe the process to be implemented for control of engineering (design) and operational configuration. The Configuration Management Plan shall:	9. Configuration Management Plan 9.1 CM Process
Define how configuration control will be recorded and documented	9.2 Configuration Control Definition
Identify the specific part of the organization responsible for maintaining the configuration control records	9.3 Configuration Control Responsibility
Identify the documentation and data systems being used to provide configuration control for all systems	9.4 Documentation and Data Systems
Identify the specific equipment, systems, and operational interfaces which are subject to configuration control	9.5 Equipment, Systems, and Operational Interfaces 9.6 Technical and Operational Interfaces
Describe the procedures to be used to coordinate, define, test, monitor, and control all technical and operational interfaces	9.7 Configuration Control Procedures 9.8 NASA Involvement

The Management Plan Compliance Matrix	
Section	Proposal Section
Identify individuals responsible for writing and for approving configuration control procedures Define how NASA will be involved with final decisions in the change process. The information fields required for each category of equipment or software in the system shall include information on the category's description, location, user, external connections to other systems, maintenance support, manufacturer, and other fields normally contained in a configuration management system.	9.9 Information Fields
C. BASELINE CONFIGURATIONS Baseline configuration descriptions and drawings shall be provided and maintained for all systems. These configuration descriptions and drawings shall be updated to reflect the results of approved changes to the configurations. These documents shall be numbered such that it is possible to determine the historical evolution of baseline configurations to the current configurations. Changes from the previous version of the documents shall be clearly noted. For drawings, the information shall be provided to reflect the connectivity represented by network drawings.	C. Baseline Configurations C.1 Baseline Configuration Descriptions and Drawings C.2 Configuration Change Updates C.3 Historical Evolution C.4 Version Changes C.5 Network Drawings Connectivity
D. CHANGE AUTHORIZATION DOCUMENT REPORTS Summary reports of all the documents that authorize changes to be made to the ITAMS-managed systems shall be provided. These reports shall contain approved Service Requests, Change Requests, and the Contractor's internal documentation.	D. Change Authorization Document Reports
E. CHANGE TRACE Trace documentation of all changes between the original baselined systems and the current configuration shall be maintained for ITAMS-managed data systems.	E. Change Trace

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1.0 INTRODUCTION

1.1 Purpose

This plan defines the concepts, methods and processes DB Consulting Group, Inc. (DB) uses to manage the Information Technology and Multimedia Services (ITAMS) contract. It addresses the plans for coordination and execution of all contract technical and administrative tasks for all ITAMS management activities required to satisfy the requirements of the contract.

Exhibit MP-1 depicts the approach used to generate this plan. It is purposely generated to address the ITAMS RFP requirements in hierarchical layers to allow changes to be identified at any level of the work definition and to propagate the change to lower levels in the most efficient manner. This is important after contract negotiations and during transition to quickly reestablish the work plan consistent with the approved contract. It also assists in the integration of work elements from prior contracts such as JETS, JIMMS and IT related work from other contracts. It assists in innovation since studies can be performed at any process level and the impact examined on all levels. For example, a tool trade study can examine the procedural and training impact of the tool as well as the cost of the tool itself. A process change can potentially cause ripple effects in the procedures, tools and the training required to exercise both. The ability to navigate easily through the framework layers allows changes to be made efficiently and with minimal disruption.

The owner of this Management Plan, the ITAMS Program Manager, reviews and updates it within five working days of the start of each quarter. If necessary, more frequent updates are made to incorporate critical information. Within five working days of an update or review, the document owner notifies those on the document distribution list of any update.

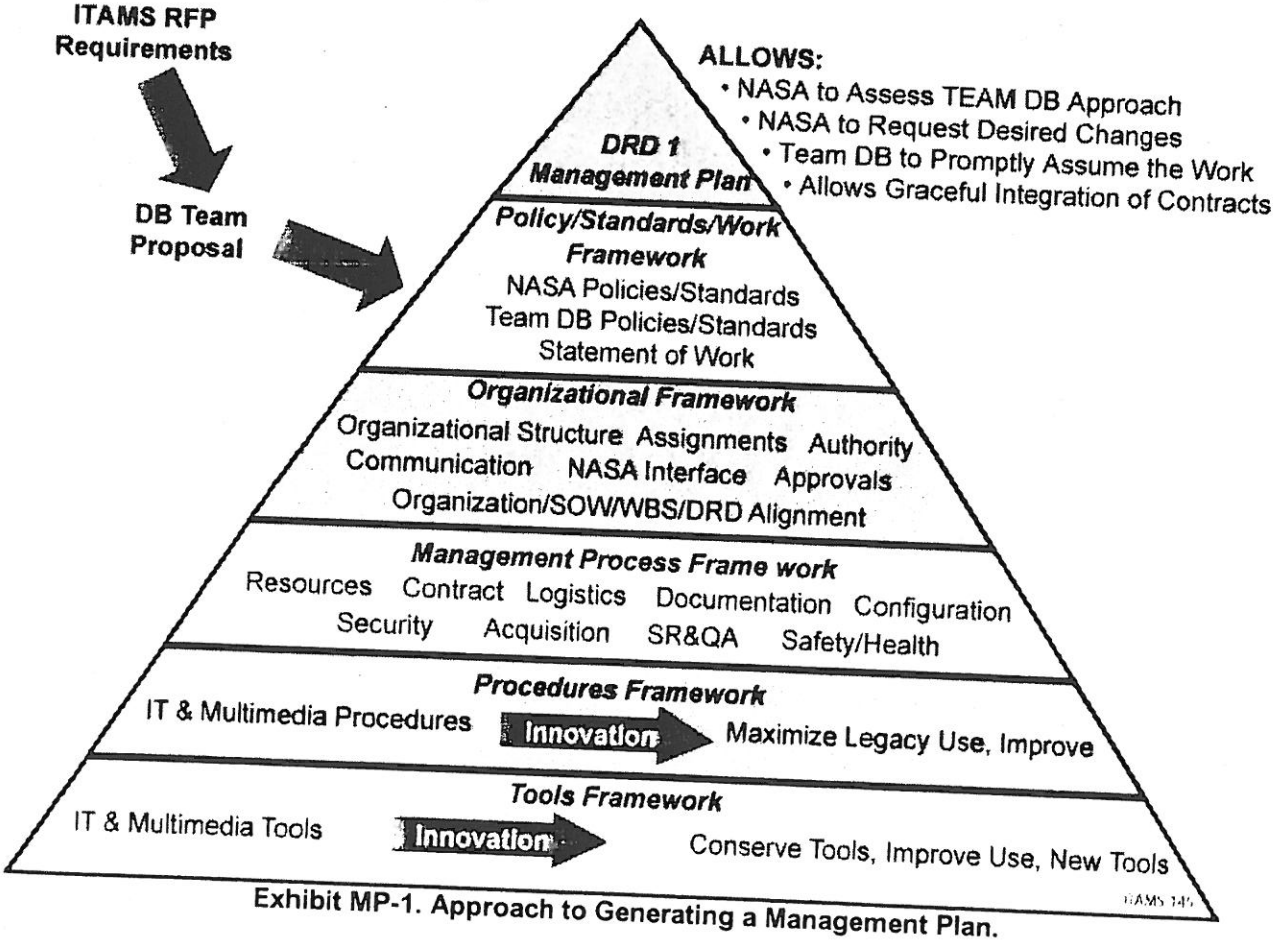

Exhibit MP-1. Approach to Generating a Management Plan.

1.2 Reference Documents

Documents referenced in this Plan should be verified as current by use of the appropriate Master Document List or equivalent.

1.3 Responsibilities

The ITAMS Program Manager is the owner of this document and is responsible for its control according to applicable document and data control procedures.

The Task Order (TO) Leads (TOLs) reporting to the Project Manager ensures the personnel assigned to each task are aware of and adhere to the content specified in this document.

1.4 Scope

It applies to all DB employees and all subcontractor employees working on ITAMS.

1.5 Plan Preparation, Review and Update

This plan is formally reviewed annually by the ITAMS PM and informally on a continuous basis by the Performance Excellence Office (PEO) Manager.

1.6 Goals and Objectives

ITAMS contract goals are to provide the highest quality products and services that result in a high level of customer satisfaction to JSC and its associated sites and facilities.

Following are the objectives to be achieved under the ITAMS contract:

- Improve sharing, teaming, and use of common processes,
- Create shared pools of resources and expertise,
- Enhance commonality in approaches to product and service delivery including standards, tool sets, guidelines, training, and consultation,
- Leverage efficiencies in service delivery and contract management identifying and prioritizing areas for improvement,
- Provide greater accountability and consistent support for end-to-end product and service delivery, and
- Partner with our customer community through a well-structured customer service approach.

Challenges to meeting ITAMS goals and objectives include:

- I3P synergy and integration (i.e., reduce NASA budget percentage spent on IT),
- Program transitions (i.e., Shuttle phase-out and Constellation phase-in),
- Proper utilization of emerging technologies (e.g., cyber security and virtualization), and
- JSC line organization reluctance to fully utilize IRD capabilities and services.

The ITAMS contractor must serve as a trusted partner to the IA and AD organizations and earn the trust and confidence of JSC line organizations by delivering creative, efficient and quality solutions. Our overall approach to meet the ITAMS goals and objectives focuses on efficient integration, cost saving innovations, and performance excellence.

We derive our management approach from JSC challenges and needs focused on the end result of mission success of all JSC programs and projects. That approach – Integrate, Innovate, and Perform is depicted in **Exhibit MP-2.**

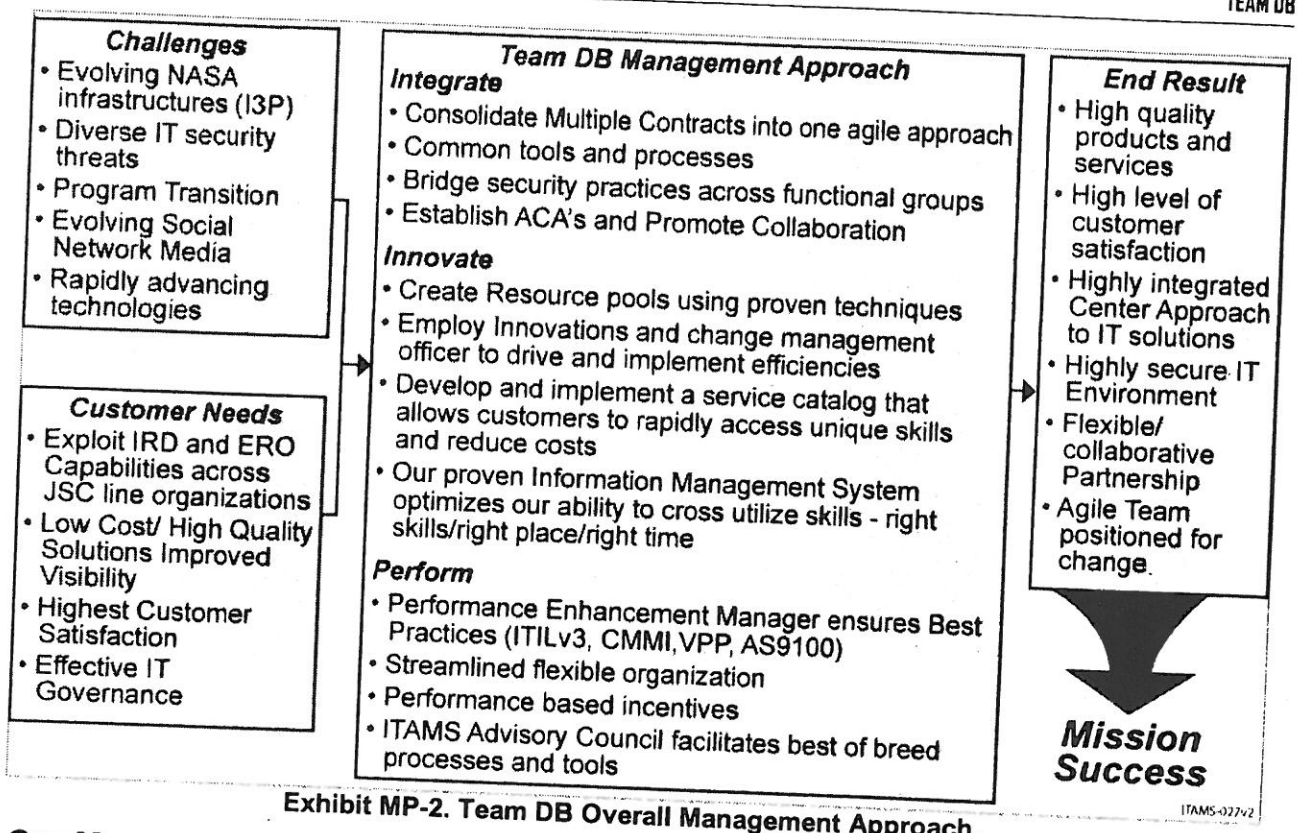

Exhibit MP-2. Team DB Overall Management Approach.

Our Management Approach Key and Unique Features

- Team DB is managed by a company with extensive NASA prime contract experience of comparable scope and complexity.
- Team DB's ITAMS organization is led by the Program Manager, Mr. Jeff White, Mr. White has extensive IT and multimedia leadership experience and complete autonomy to commit company resources, to manage subcontractors, and to lead all contract activities.
- Our PEO integrates quality, safety, health, environmental and risk management and drives these vital processes across all levels of the organization.
- Our Innovation and Change Management Manager leads innovation and manages change across all support elements. See 2.1.5 Management Innovations for details of the ITAMS Innovation and Process Improvement Approach.
- As shown in **Exhibit MP-3**, our organization centers on pools of resources that align with SOW elements. These resources are deployed to support task orders according to the skill sets required for effective performance.
- Our organization employs an integrated team approach that applies the right skills, to the right place, and at the right time regardless of company affiliation. DB provides strong leadership in all program level key positions and is augmented by a talented group of subcontract professionals.
- VPP, AS9100 and CMMI Level 3 certifications are achieved for ITAMS at company expense.
- DB has established a special business unit for Houston Operations in order to focus resources on ITAMS and minimize costs.
- We employ simple prime-sub relationships to eliminate confusion and optimize performance. DB provides clear and direct leadership from a known and established NASA-experienced prime.

2.0 ORGANIZATION

Our overall management approach – Integrate Innovate, and Perform, – driven by ITAMS challenges and needs drives our organization structure and operation. We consolidate and integrate ITAMS functions, minimize management layers, and promote direct and effective lines of communication. We establish groups based on skill sets and customer interfaces, resulting in optimal cross-utilization and single points of contact for customers. The Program Manager reports directly to DB executive management, ensuring the highest priority responsiveness and the flexibility and agility of autonomous local management. Our approach enables integration, innovation, and performance at the highest quality and customer satisfaction levels.

Our organization of forward-thinking leadership is designed to address all ITAMS goals, objectives, requirements and deliver to JSC flexible, responsive services with associated metrics that can be accessed from anywhere and provides value-added tools and capabilities for enabling JSC's mission (see **Exhibit MP-3**).

In our approach, the PM, Jeff White, spans technical, business, and subcontract management. Technical management responsibility has been delegated to Group Managers (GMs) who report directly to the PM and are responsible for specific, unique sections of the WBS and the execution of TOs and Service Level Agreements (SLAs). We organize along integrated Work Breakdown Structure (WBS) functional lines to optimize the skill mix, reduce costs, innovate, capitalize on industry and governmental best practices, manage change, and continuously improve effectiveness and efficiency. Our organization is client-facing so JSC knows who is responsible for their satisfaction and for partnering to anticipate and respond to future initiatives, mandates, and evolutions.

To effectively integrate and consolidate the ITAMS tasks, we allocate the ITAMS technical statement of work to four Groups as shown in **Exhibit MP-3**. This grouping is our management approach to enable IT, IT Security, External Relations, and Multimedia Solutions for JSC organizations. For example, the IT Integrated Solutions Group consolidates JETS and JIMMS functions and provides an efficient framework for consolidating other JSC IT related efforts. In addition, the planning and integration support managed under this group supports project management elements for the other groups through a pool of cross-matrix and shared resources.

We create a separate group for WBS 5.6, IT Security, to recognize the importance and preserve the integrity of this critical function. IT Security provides integrated support to the other technical groups for new and existing IT and multimedia projects, as well as for verifying the security posture of the systems and applications managed by ITAMS.

We consolidate the WBS 6.0 and 8.1 multimedia requirements into our Multimedia Operations and Services work center to improve communication and workforce synergy. We merge External Relations, Information and Communications (WBS 8.2) and Information Management (WBS 7.0) into a single work center focused on communication products and services, our External Relations and Information Management Services Group.

We assign SOW 4.0, Customer Support in a third organizational element managed by our DPM who has dual responsibilities. The DPM has broad visibility across the DB organization and to Team DB performance. Assigning this dual responsibility enables a more proactive, responsive posture to customer support and provides IRD and JSC increased confidence in contract success.

We delegate business management responsibility to the Business Manager (BM) who reports directly to the PM. Business Management involves financial reporting, property management, preparation of the pricing elements of TO proposals, and SLA reporting. Subcontract Management is responsible for identifying subcontractors to perform subcontracted work, monitoring their performance, and integrating their cost and performance results into higher level reports.

A mechanism for effective innovation implementation is our Innovation and Change Management Officer, Ms. Beth O'Connor (Lean Six Sigma Black Belt, Executive Strategic Planning Facilitator, PMP, and Certified Quality Auditor). Ms. O'Connor, reporting directly to our PM, is responsible for managing continual innovation development throughout the contract period of performance, as well as work with our ITAMS workforce and customers to ensure proper transition planning and implementation. We

demonstrate our confidence in this approach by paying for this position out of the cost savings generated by our innovations as well as company profits. We establish an Innovation and Change Management Officer (ICMO) who is responsible to manage our Innovation Master Plan and to continuously promote innovation. The ICMO develops, coordinates, and manages the acceptance of change and project communication activities with stakeholders. Working collaboratively with IRD and ERO, the ICMO prepares the JSC organization for innovative and transformed ways of IT and multimedia service delivery. Key responsibilities include communications planning, stakeholder engagement, leadership alignment, and integrating changes to roles and jobs, policies and practices, and work flows. This individual is a key DB player in the JSC Innovation and Inclusion initiative and is a major contributor to our integrate, innovate, and perform approach.

We integrate safety and quality throughout our organization and create a Performance Excellence Office that consolidates safety, health and environmental, quality and risk management requirements. This office promotes continuous performance improvement and excellence and reports to the PM, Jeff White. We commit to obtaining VPP Star, CMMI Level 3 and AS9100 certifications for ITAMS at company expense. The PEO Manager, Ms. Julia Babineaux, directs quality, safety, risk, and training requirements for the ITAMS contract. She manages all aspects of the Quality Management System, including coordination of collecting, trending, and reporting performance metrics; management of the Quality Assurance Plan; and development and implementation of preventative and corrective action plans. She provides leadership to stimulate employees' awareness of workplace safety. The PEO is the focal point for analyzing TO performance data and maintaining up-to-date metrics on the ITAMS Management System (IMS) as key management assessment points. The PEO manages the ITAMS Safety and Health Program. She leads our efforts to implement CMMI and ISO benchmarks and ITIL procedures. The PEO administratively reports to the DB Corporate Quality Improvement Office to maintain the independence of the PEO to identify and report negative findings without recrimination. The impact of this consolidation is an efficient, contract-wide focus on mission success, and simplified, certified management systems.

We establish the ITAMS Advisory Council (IAC) to keep our ITAMS leaders current on emerging technologies and industry technology advancements and trends. Through the IAC, Mr. White seeks advice on emerging technologies, technology infusion, IT security, and other topics through Team DB's companies, university experts, and research institutes.

To harmonize our work center consolidations, we select a leadership team with complementary backgrounds and a common focus on customer service and satisfaction. Mr. Jeff White leads our team as Program Manager and brings 35 years of management experience in multimedia and IT environments. We identify seven key positions critical to achieving ITAMS goals and objectives, and select complementary candidates with IT, multimedia and external relations backgrounds, and a common focus on customer service and satisfaction. Collectively our key personnel possess leadership, IT, multimedia and external relations qualifications with JSC, NASA, DoD, other Government, and industry experience. Section 3.0 describes our key personnel team.

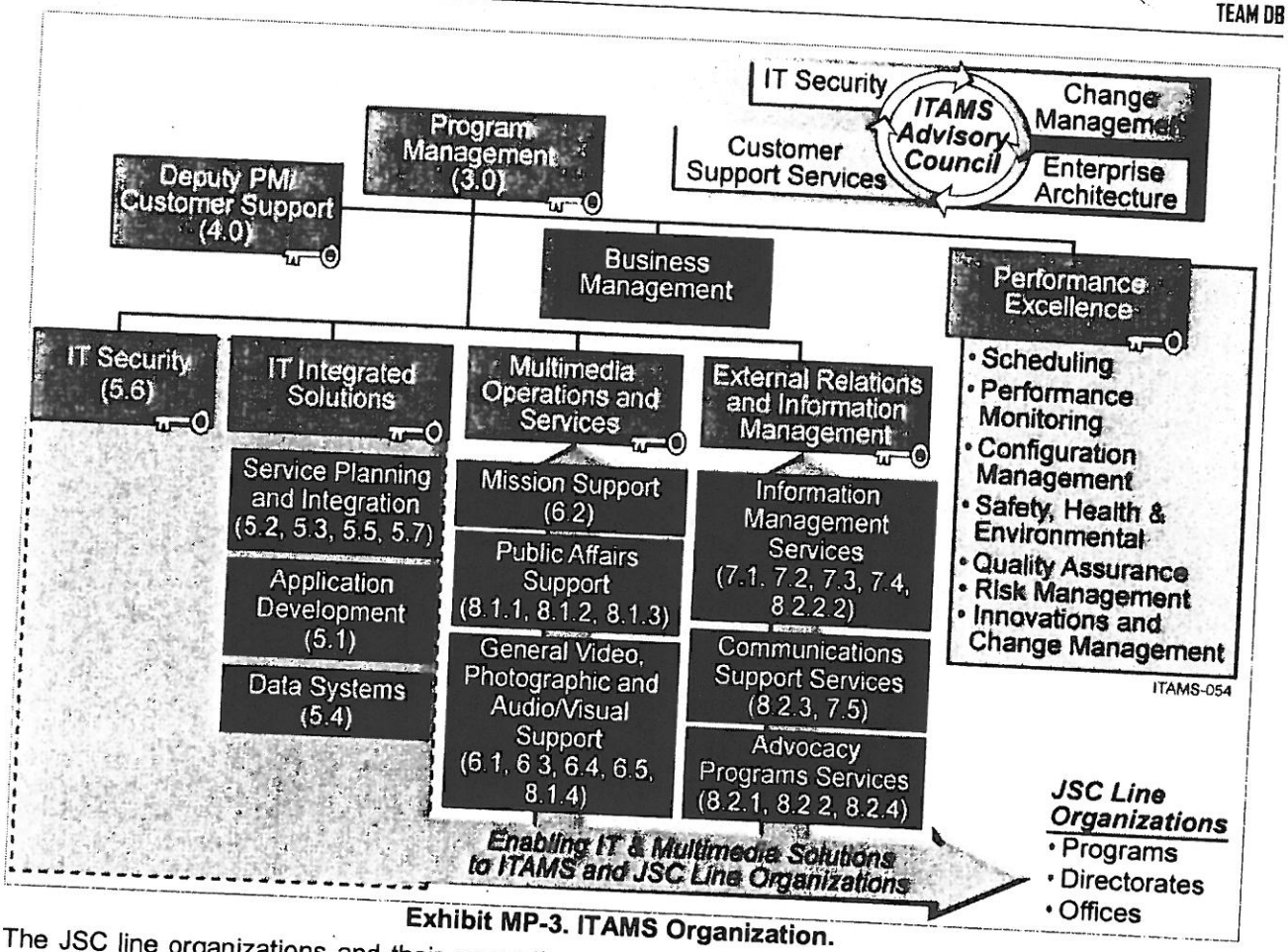

Exhibit MP-3. ITAMS Organization.

The JSC line organizations and their supporting contractors with which we must establish relationships are shown below in **Exhibit MP-4**.

Line Organization	Contractor	Line Organization	Contractor
AF - Advanced Planning	None	KA - Aeromaterials Research and Exploration Science Office	None
AH - Human Resources Office	None	LA – Chief Financial Manager	Science Applications International Corporation
AJ – Office of Equal Opportunity and Diversity	None	MA - Space Shuttle Program Office	United Space Alliance
AK – Chief Knowledge Manager	None	NA - Safety and Mission Assurance Directorate	Science Applications International Corporation
AL - Legal Office	None	OA - ISS Program Office	Anadarko Industries Boeing ARES Inc Barrios Technologies Inc
BA – Office of Procurement	None	QA - Commercial Crew and Cargo Office	None
CA – Flight Crew Operations Directorate	United Space Alliance	RA - White Sands Test Facility	Jacobs ESC Group
DA - Mission Operations Directorate	United Space Alliance	SA - Space & Life Sciences Directorate	Wyle Integrated Science and Engineering

Line Organization	Contractor	Line Organization	Contractor
EA - Engineering Directorate	Jacobs ESC Group	XA - EVA Office	None
JA - Center Operations Directorate	Computer Sciences Corporation Earth Resources Technology, Inc.	ZA - Constellation Program Office	Lockheed Martin SGT Inc

Exhibit MP-4. JSC Line Organizations.

Associate Contractor Agreements (ACAs) Forum. The process of establishing Associate Contractor Agreements and our proposed ACA Forum is a way to more effectively communicate with our contractor team, develop a shared body of knowledge, and focus actions implementing significant ITAMS decisions. The ACA Forum monthly meeting of key decision makers and implementers can respond quickly and effectively to organization-wide changes. In addition, technical working groups between ITAMS and specific contractors are formed to meet periodically for projects or operations requiring more detailed coordination and interaction.

As we begin this process during Phase-In, we work with IRD management to conduct initial discussions with JSC line organizations, and begin the ACA process with their support contractors. We focus on how we can best meet the needs of those organizations and their contractors as well as the support we need from them. We extend this initial relationship building with our approach to SOW 4.0 and our use of customer agents.

Proactive Customer Service. Our approach to JSC line organization customer support is the second method of establishing relationships and is formed by the selection of qualified incumbent customer support experts, by building a customer support paradigm founded on industry best practices defined by ITILv3 and the Help Desk Institute (HDI), and by elevating the manager of general customer support to the position of DPM. We further expand and integrate the customer support efforts under many predecessor contracts into a unified approach and we leverage our JSC experience and CSA team to provide involvement in IRD and ERO customer organizations so all potential users have ready access to, and technical understanding of IRD and ERO products and services. Most importantly, we provide our collaborative customer service with customer-focused, end-to-end accountability for the delivery of ITAMS products and services ensuring that IRD and ERO products and services are delivered efficiently, effectively, and at the right cost to IRD and its customers.

Management by Walking Around (MBWA). Our PM and his management team are deeply involved with both IRD and external customers to ensure we maintain productive, trusting relationships. They spend a significant portion of their time formally and informally engaging customers and employees, staying current with ITAMS operations and projects. We identify and address JSC line organization and contractor problems before they impact operations and the mission. This is facilitated by directly engaging customers face-to-face and developing customer relationships through periodic tag ups and brief pop in meetings.

Building Trust and Effective Partnerships. Trust in delivering products and services and in executing service level agreements with JSC line organizations and contractors is essential to high quality performance and highly satisfied customers. Being trustworthy in such relationships requires both competence and character. As a trusted service partner, we focus our communications on prioritizing tasks, offering smooth and timely flow of information and data, and having insight to effectively foresee and address potential issues with our JSC line organizations and contractors.

DB's performance evaluation in delivering services in highly relevant environments at NASA Headquarters and Glenn Research Center resulted in Award Fee scores of 96 and higher. At each level of communication with our partners, we establish a single point of contact both through the Team DB chain of command and to the JSC client and contractor. This well defined escalation process ensures timely resolution of technical, contractual, and staffing issues. Each level has a defined responsibility coupled with an appropriate level of authority. Issues raised that are outside the authority of a team member are raised automatically to the next level according to a structured problem resolution sequence.

The ITAMS PM is a single point of contact that interfaces with all levels of all companies and organizations to resolve any ITAMS issues. We interface with the Contracting Officer (CO) and Contracting Officer Representative (COTR), Task Managers (TMs) or their designated Technical Monitor Representative and senior management across JSC line organizations.

We strongly believe that early identification and effective issue resolution are essential to ITAMS customer satisfaction. While we strive to identify and resolve issues at the lowest possible level, the final authority for resolution rests with the ITAMS PM. Our lines of communication include a proactive ITAMS customer visit program. We schedule visits at regular intervals to ITAMS stakeholders at all levels from TMRs to Division Chiefs to Directors to assess our quality of service, identify and resolve potential issues, and get an update on the next 1-3 months so we can plan for near-term task and resource fluctuations.

2.1 Organization Structure and Responsibilities

The ITAMS organization chart shown in **Exhibit MP-3** identifies the main elements which comprise the organization: The PM and DPM, the Program Management Office, and the five Group Managers. Each of these is described in detail.

At each level, there is a single point of contact for technical, contractual, or financial interface. Lines of communication and problem escalation follow the lines of the organization chart, ensuring timely resolution of issues. Each level has a defined responsibility coupled with an appropriate level of authority. Issues raised that are outside the authority of the closest level of management are automatically raised to the next level according to a structured problem resolution sequence. Our lines of communication include a proactive customer visit program. We will schedule visits at regular intervals to ITAMS stakeholders at all levels to assess how we're performing and to get an update on future needs.

2.2 PM and DPM

The program manager is the customer's primary point of contact and DB's focal point for the program. The program manager has total responsibility for program execution and decisions and has the resources necessary to successfully complete program-related activities. The program manager has direct access to senior management and the directors of other organizations involved in the execution of this program and provide the necessary leadership to transform the group of individuals working on the program into a team that works interdependently to attain program objectives.

The PM reports directly to DB's Chief Executive Officer, Gerald Boyd, Jr., and has been delegated complete autonomy and authority necessary to execute the ITAMS contract without any need for additional authorization or approval by Mr. Boyd.

Our management positions have been delegated appropriate autonomy – at program and task order levels – to execute within their assigned scope without further authorization or approval to provide effective and qualified leadership empowered to make timely decisions, engage company resources, and to successfully resolve issues with other associate contractors.

The PM's job is to challenge our organization to think outside the box to find solutions and approaches and to continuously improve. To do this, he will establish and maintain customer-facing information channels with IRD, ERO, JSC stakeholders using techniques such as email, Instant Messenger (IM), web sites, face-to-face meetings, and surveys to assess the needs of ITAMS users. The PM is the owner of the Management Plan (DRD 1). Even though individual parts of the plan are supplied and maintained by other organizational functions, the PM is responsible for its usefulness and consistency.

The DPM is responsible for the daily operations of the ITAMS contract, the accomplishment of all metrics, and ITAMS stakeholder overall satisfaction. In a dual role, the DPM is also responsible for managing the Customer Support Services Group. Our organizational approach places management focus on customer service and assigns the DPM to ensure its delivery. This gives customer service more visibility in the organization, providing and ensuring enhanced delivery of products and services to customers and maximizing customer satisfaction. This is a critical position with responsibility to deliver negotiated and exemplary service to all users. The DPM is the owner of the Project Plans (DRD 2) and Standard Operating Procedures (DRD 10). Individual functional areas produce these plans, but the DPM is responsible for their timeliness, usefulness and consistency.

2.3 Program Management Office (PMO)

The PMO supports the PM and DPM to provide overall control of the ITAMS contract. They work together to establish the broad "steering currents" that drive the evolution of contract performance from Day 1 through a transformation to the service delivery model envisioned by IRD and ERO. The PMO consists of a Business Manager and an advisory staff consisting of the ICMO and the PEO. The PMO is responsible for the following DRD's:

- Project Plans (DRD 2)
- Information Technology Capital Planning & Investment Control (DRD 3)
- Resource Management Plan (DRD 5)
- Resource Management Supplemental Report (DRD 6)
- Government Property Management Plan (DRD 7)
- Organizational Conflict of Interest Avoidance Plan (DRD 8)
- Contractor Status Report (DRD 13)
- Nondisclosure Statements (DRD 16)
- Re-Procurement Data Package (DRD 18)
- Emergency Plan (20)
- Wage/Salary and Fringe Benefit Data (DRD 21)
- On-Site Contractor (Headcount) (DRD 22)
- Notification of Labor Disputes & Contingency Strike Plan (DRD 23)
- Financial Reporting Contractor Held Property (DRD 25)

Other supporting functions include:

- Financial management for annual operating plan, sales, and bookings forecasts; indirect budget management; and rate adjustments and impacts.
- Engineering matrix management for engineering resource planning and career progression.
- Facility Management for management of the ITAMS facility floor space.
- Security for maintaining facility security.
- Risk management
- Environmental Health and Safety for ensuring a safe and healthy work environment for program personnel.

2.4 Business Manager (BM)

The BM is responsible for all business elements and contract and subcontract administration. His primary duties involve collecting and verifying costs from labor timesheets and subcontractor and vendor invoices, tracking actual against planned costs, and reporting cost performance at a summary contract level with supporting cost detail for each TO. The BM and PM work closely to track cost performance and the effectiveness of cost control initiatives. The BM is supported by a staff of project control and schedule analysts and a human resources specialist.

2.5 Performance Excellence Manager

The PEO directs quality, safety, risk, and training requirements for the ITAMS contract. She manages all aspects of the Quality Management System, including coordination of collecting, trending, and reporting performance metrics; management of the Quality Assurance Plan; development and implementation of preventative and corrective action plans. She provides leadership to stimulate employees' awareness of workplace safety. The PEO is the focal point for analyzing TO performance data and maintaining up-to-date metrics on the IMS as key management assessment points. The PEO manages the ITAMS Safety and Health Program. She leads efforts to implement CMMI and ISO benchmarks and ITIL procedures. The PEO administratively reports to the DB Corporate Quality Improvement Office to maintain the independence of the PEO to identify and report negative findings without recrimination. The PEO is

responsible for the following DRD's:

- Metrics Performance Plan (DRD 4)
- Safety and health Plan (DRD 9)
- Problem Reporting/Resolution (DRD 12)
- ITAMS Lessons Learned Document (DRD 19)
- Monthly Safety and Health Metrics (DRD 24)
- Safety and Health Program Self Evaluation (26)

2.6 Innovation and Change Management Officer (ICMO)

The ICMO develops, coordinates, and manages the acceptance of change and project communication activities with stakeholders. Working collaboratively with IRD and ERO, the ICMO prepares the JSC organization for innovative and transformed ways of IT and multimedia service delivery. Key responsibilities include communications planning, stakeholder engagement, leadership alignment, and integrating changes to roles and jobs, policies and practices, and work flows. The ICMO is clearly a major contributor to our integrate, innovate, and perform framework.

2.7 Group Managers (GM)

Our ITAMS organization has five GMs: IT Integrated Solutions Manager, IT Security Manager, Multimedia Operations and Services Manager, and External Relation/Information Management Manager. The DPM fills the fifth GM position as the Customer Support Manager in a dual role.

As the organizational chart presented earlier describes, each GM is assigned a discrete portion of the WBS that does not overlap with any other GM. This approach integrates those elements of the WBS under one GM who can integrate, innovate, perform, introduce commercial best practices, optimize service delivery techniques and the associated skill mix level of his workforce, and reduce cost while focused on TO performance metrics. GMs are responsible for developing the unique Project Plans (DRD 2) and Standard Operating Procedures (DRD 10) under the supervision and direction and coordination of the PM. GMs are also responsible for the following DRD's:

- Preventative Maintenance and Operational Readiness Documentation (DRD 11)
- Performance Management and Capacity Plan (DRD 17)
- Mission Support Planning Documents (DRD 14)
- Television Productions Deliverables (DRD 15)
- Data Center Reports (DRD 27)
- Physical Inventory Plan (DRD 28)
- Server Backup & Tape Usage Reports (DRD 29)
- IT Security Plan, Risk Assessment, and FIPS 199 Assessment (DRD 31)
- Asset Management Planning and Reports (DRD 32)

3.0 LEVELS OF APPROVALS

The ITAMS organizational structure facilitates the levels of approvals required to effectively and efficiently carry out the work of the ITAMS contract. **Exhibit MP-5** summarizes the levels of approvals supported by the contract. As seen in the exhibit, the most critical approvals occur at the ITAMS Contracting Officer (CO) and Program Manager (PM) boundary. Proposals for contract changes such as Task Order proposals and Services Order proposals are offered by the PM for consideration. Approvals or requests for changes are tendered in return by the CO. In a similar manner, systems, products and DRD's are delivered by the contract to the contract office. If the systems, products and Type 2 DRD's are as expected (systems and products may undergo acceptance tests), they are accepted by the contract officer after TMR assessment. Type 1 DRDs, after undergoing a RID process and approved change control process, are then approved by the contract office.

SR and CR proposals sent from the PM to the contract office which require IRD approvals are routed to

the appropriate IRD board. Once approved by the boards, the SR's and CR's are transmitted to the PM. Then, and only then, can they be included in contractual work.

The exhibit also shows the levels of approval within the contractor's organization. They can be summarized by noting the categories of work elements flowing up and down the organization. For example, task elements of work are performed under task leaders, are inspected and corrected by the task teams, and offered up for review individually or in groups by the functional manager. The functional managers, after review and correction approve the work and offer it to the DPM for an integrated look at ITAMS wide consistency. Only after any needed corrections are the work products approved for release by the PM. This structured system of levels of offerings, reviews, and approvals is designed to discover errors and correct them at the lowest possible level in the organization. This has been shown to be the most effective and efficient to deliver products and services on contracts.

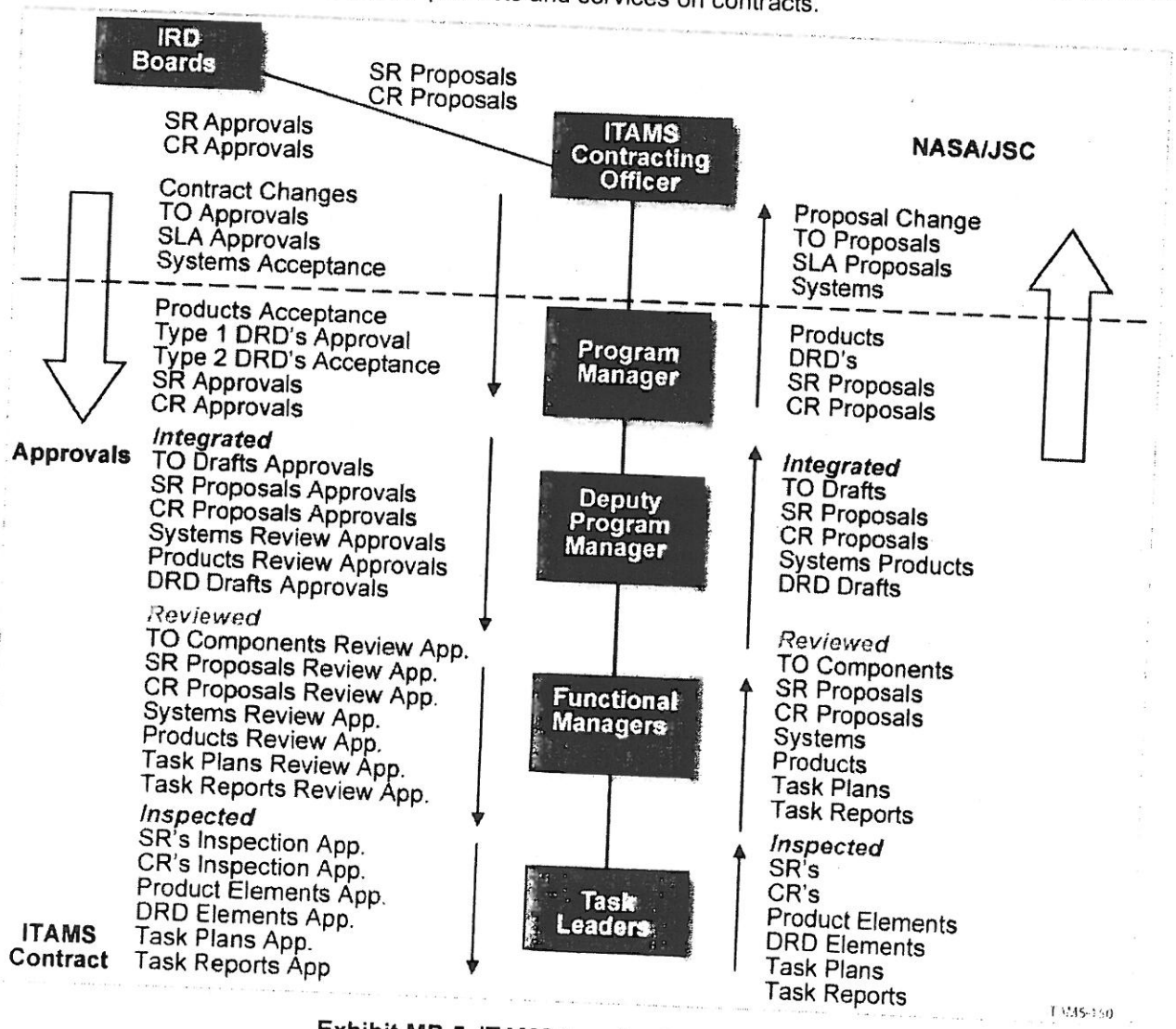

Exhibit MP-5. ITAMS Levels of Approvals.

4.0 FLOW OF AUTHORITY

The WBS is a hierarchical decomposition of the products and services defined in the statement of work. Task Order and DRD requirements correlate with WBS elements. We use the WBS to:

- Subdivide the total contract effort into manageable units of work,
- Assign responsibility for accomplishing specific tasks to organizational elements,
- Develop integrated cost, schedule and technical plans; perform status assessment; collect cost and manage performance; and
- Provide a structure to report internal and external customer-required management information.

A description of the position, responsibilities and authorities for the PMO and Task Leads is provided in **Exhibit MP-6**. It defines the span of control, degree of autonomy and lines of communication utilized by each position,

Position, Responsibilities, and Authorities	Span of Control	Degree of Autonomy	Lines of Communication
Program Manager (PM)			
Total contract performance (quality of services, deliverables; technical, cost, schedule performance; customer satisfaction) Full authority over all contract matters Approves 533s, internal financial reports, invoices Maintains customer satisfaction across all ITAMS customers Supervises BM, Group Managers & Safety/Training Leads Chair for ITAMS Quality and Safety Councils Hires/terminates staff Approves employee awards, performance and spot bonuses Manages integrated contractor team	Entire ITAMS Contract	Full Autonomy On All Contract Matters	JSC: COTR, CO, TMRs, CIO, Directors, Div. Chiefs DB corporate: CEO, CFO, Facilities, HR, Purchasing, IAC Team Members: Executives of Interest, SMEs ITAMS: Direct Reports, MBWA
DPM - Dual Role - Customer Support Services Manager			
Acts on behalf of the PM in his absence Performance of Customer Support Services Group (technical, cost, schedule performance; quality of services, deliverables; customer satisfaction) Performance of all Task Leads and Tasks in Group Ensures consistent use of standards, methods and processes to meet quality of deliverables Supervises Task Leads, approves timecards, hire/terminate staff, nominates employee awards and bonuses, approves reviews Maintains Customer Satisfaction across supported JSC areas	Entire ITAMS contract as DPM	Full Autonomy on all delegated contract matters	Team Members: Executives of Interest, Subject Matter Experts (SMEs) ITAMS: Direct Reports JSC: Division Chiefs, Deputy Chiefs, Assistant Chiefs; Lab/Branch Chiefs; TMRs DB and Team Members: IAC ITAMS: PM, PMs direct reports, Task Leads

Position, Responsibilities, and Authorities	Span of Control	Degree of Autonomy	Lines of Communication
Overall financial responsibility Provides and tracks cost estimates Prepares 533 reports, ad hoc reports, invoices Direct access to corporate Costpoint accounting system Manages TOMS Cost Modules Supervises Business Office	Entire ITAMS contract for assigned responsibilities	Full autonomy on all financial matters with approval of ITAMS Manager(s)	JSC: CO, COTR, RA DB Corporate: CFO, Contracts Team Members: Contracts, Finance Reports to PM
Performance Excellence Manager (Safety, QA, SH&E, & Risk Mgmt)			
Improvement of operations Manages Quality System, Risk Management System Deputy Chair for ITAMS Quality Council ISO/Quality Metric Reports to COTR	All ITAMS contract for assigned responsibilities	Full autonomy for Quality	JSC: COTR: QMS Council DB Corporate: QIO Reports to PM
Administers Safety and Health Program Deputy Chair for ITAMS Safety Council Attends JSC Safety Council meetings with PM Conducts periodic and ad-hoc safety inspections of all work areas	Entire ITAMS contract for assigned responsibilities	Full autonomy for safety, health & environmental	JSC: Safety Office DB Corporate: Safety Manager Reports to PM
Group Managers			
Performance of Group (technical, cost, schedule performance; quality of services, deliverables; customer satisfaction) Performance of all Task Leads and Tasks in Group Ensures consistent use of standards, methods and processes to meet quality of deliverables Supervises Task Leads, approve timesheets, hire/terminate staff, nominates employee awards and bonuses, approves reviews Maintains customer satisfaction across supported JSC areas	Assigned Group	Full Autonomy for Group	JSC: Division Chiefs, Deputy Chiefs, Assistant Chiefs; Lab/Branch Chiefs; TMRs DB and Team Members: IAC ITAMS: PM, PM's direct reports, Task Leads
Innovation and Change Management Officer			
Innovation and Change management plus the following: Sustains innovation development throughout the contract performance period Works with ITAMS workforce and customers to ensure proper transition planning and implementation	Assigned tasks	Full autonomy for functional areas	JSC: ITSM, TM, Center SIRT DB: IT Security Manager, IAC Reports to PM
[illegible]			
Performance Based Tasks (quality of services, deliverables; technical, cost, schedule performance; customer satisfaction) Prepares Task Plans, project plans status reports Supervises task staff, approves timecards, recommends hires and terminations, nominates employee awards and bonuses Ensures consistent use of standards, methods and techniques to meet quality of deliverables Approves final task deliverables, maintains TM satisfaction	Assigned task(s)	Full autonomy for task	JSC: TMs DB Corporate: IAC Team Members: IAC ITAMS: Reports to Group Manager, supervises task staff, collaborates with PEO

Exhibit MP-6. Team DB Roles and Responsibilities.

5.0 EXTERNAL INTERFACES

Each organizational element interacts with its technical monitor and IRD and ERO customers. Our program manager interacts with IRD and ERO management, the CO and COTR. Functional specialists and business management staff interact with the COTR and technical monitor representatives regarding issues under their area of responsibility.

As a team of experienced NASA contractors, we have created an organization with simple and clear points of interface with JSC. This experience is reflected in **Exhibit MP-7** which highlights many operational interfaces with JSC personnel. Having clearly defined interfaces at each level of our organization keeps JSC proactively informed of significant issues and concerns and what's being done about them. NASA interfaces are defined at each level of the organization. Our organization enables us to operate as knowledge-sharing and integrated elements to ensure the best available resources are assigned regardless of company affiliation.

At each level there is a single point of contact through our chain of command and the JSC customer. This well-defined escalation process ensures timely resolution of technical, contractual, and staffing issues. Each level has a defined responsibility coupled with an appropriate level of authority. Issues raised that are outside the authority of a team member are automatically elevated to the next level according to our problem resolution sequence.

JSC	Interaction	Team DB	Contractor Responsibility
CO	Request for TO Proposal	PM	Assign responsibility to appropriate GM TO Proposal review and approval Negotiate, discuss proposal as needed
		BM	Acknowledge receipt Prepare cost/price elements Support TO negotiation, discussion as needed
	Authorization to Proceed	BM	Acknowledge receipt Start work
	Modifications (unilateral)	BM	Update documentation Broadcast informational notice
	Modifications (negotiated)	PM, BM	PM engage corporate Contracts as needed BM perform local coordination and response
	Financial (533) reporting	PM, BM	PM review and approve reports BM provide clarification, correction as required
	Acceptance of Services	PM, BM	Prepare and submit documentation IAW contract
	Installation of System	PM, BM, GM	Prepare and submit documentation IAW contract
	Government Property	BM	Prepare and submit documentation IAW contract
	PIV Sponsor	BM	Request employee badge, access to JSC
	Safety, Health Reporting	PM, PEO	Prepare and submit documentation IAW S&H Plan
	OCI	PM	Prepare and submit documentation IAW contract
	IT Security Plan	PM, GM	Prepare and submit documentation IAW contract
	Consent to Subcontract	PM, BM	Prepare and submit documentation IAW contract
COTR	Acceptance of Services	PM, BM	Prepare and submit documentation IAW contract
	Financial (533) Reporting	PM, BM	Prepare and submit documentation IAW contract
	PIV Sponsor	BM	Request employee badge, access to JSC
SH&E	Safety, Health Reporting	PM, PEO	Prepare and submit documentation IAW S&H Plan

JSC	Interaction	Team DB	Contractor Responsibility
Finance	Financial (533) Reporting	PM, BM	Prepare and submit documentation IAW contract
TM or TMR	Clarification of TO Requirements	GM, TOL	Ensure clear understanding of TO requirements for development of proposal
	Technical Information Exchange	TOL	Provide JSCC with up-to-date status and technical information
IRD/ERO	Partnership and Alignment with JSC, NASA	PM	Ensure ITAMS plans are consistent with ITAMS and NASA policy, and business needs
IRD/ERO, Stakeholders	Voice of the Customer Outreach	PM	From JSC feedback, evaluate TO, metric, and incentives for consistency with JSC business needs Respond to all feedback

Exhibit MP-7. Interfaces Responsibilities.

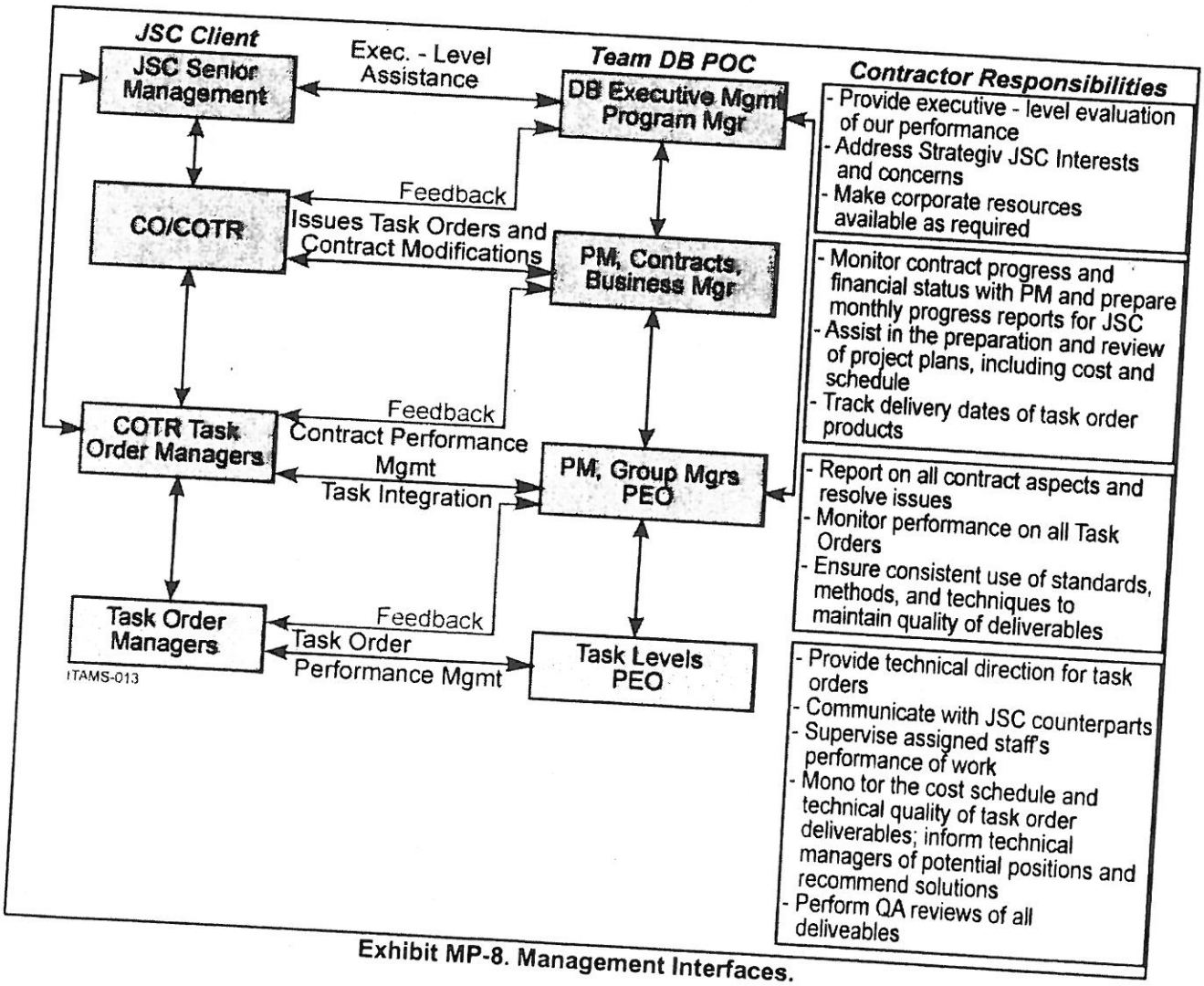

Exhibit MP-8. Management Interfaces.

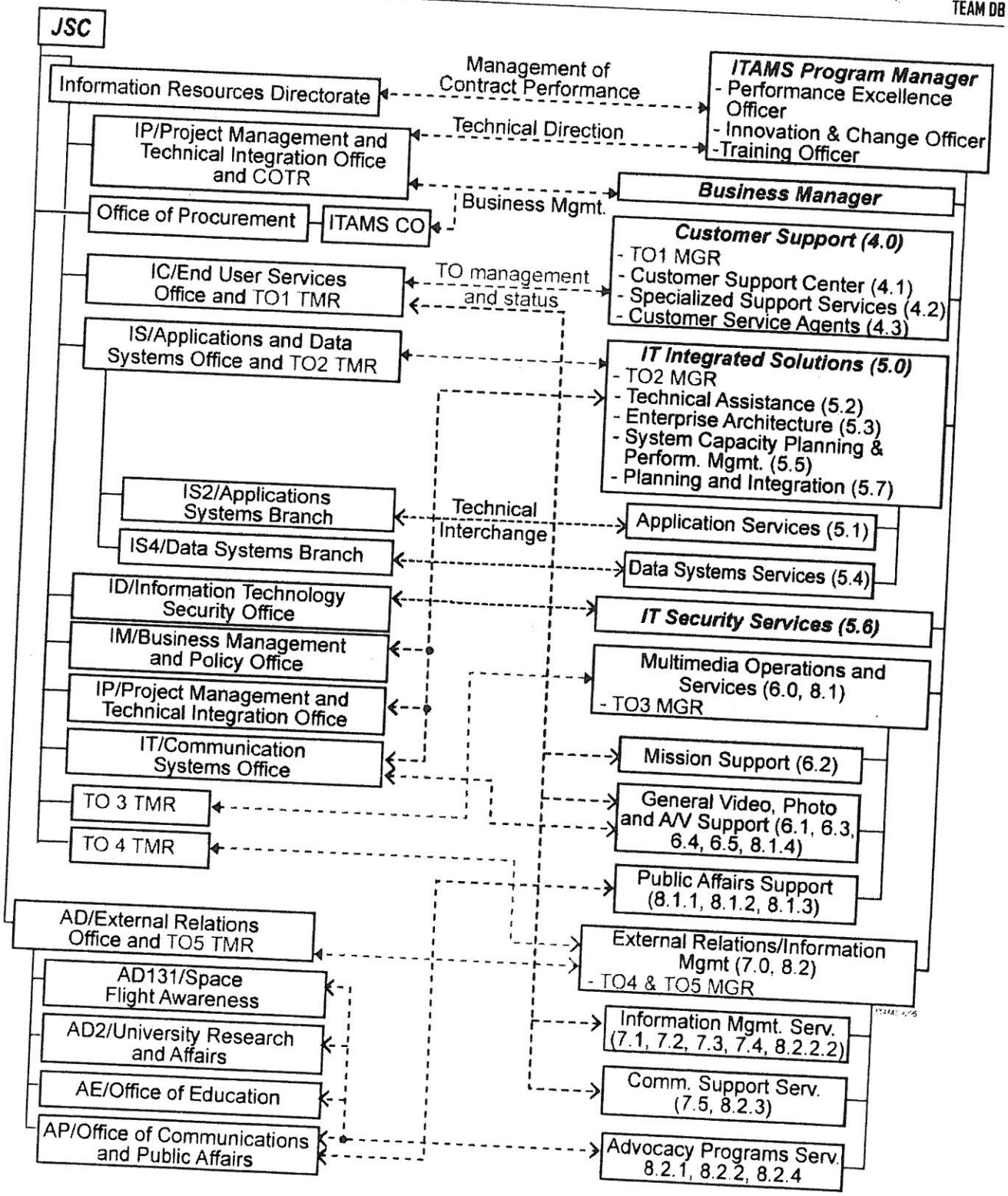

Exhibit MP-9. JSC Interfaces.

6.0 FUNCTIONAL RELATIONSHIPS

Formal authority flows along organizational lines. The functional staff (e.g. PEO and ICMO) establishes policy, procedures and practices; advises line supervisors and audits performance to confirm compliance. The IT Integrated Solutions Group manager takes requirements needing new technology solutions to the technology development lead. Technology development draws on the integrated IT service teams' expertise for concept development and design support, such as introducing IT security, operations and support issues early in the concept development and design phases. **Exhibit MP-10** identifies relationship activities between functional and organizational levels.

	Relationship Activities
Technical and Business Mgt.	• Develop/staff/price task plans • Analyze subcontract invoices for accuracy • Manage/monitor/report contract/task performance to GRC • Perform cost monitoring/analysis [planned vs. actual] • Ensure highly efficient, effective use of subcontractor resources • Ensure integrated program management • Request company resources from corporate • Maintain lines of communication, resolve priority conflicts
Business & Sub. Mgt.	• Review subcontractor invoices to authorize payment • Manage/modify subcontract agreements, POs, funding • Monitor/report subcontractor cost performance • Analyze monthly subcontractor time charging • Ensure integrated program management • Maintain lines of communication, resolve priority conflicts
Technical and Subcontract Mgt.	• Coordinate task plan development/staffing • Manage/perform tasks • Monitor/report subcontractor technical/schedule performance • Manage/monitor subcontractor time charging by task • Ensure highly efficient, effective use of subcontractor resources • Assign staff including subcontractor staff • Ensure integrated program management • Coordinate/ensure company resources from corporate, for any task • Maintain lines of communication, resolve priority conflicts

Exhibit MP-10. Relationship Activities.

7.0 RELATIONSHIP AND INTEGRATION OF CONTRACT DRDS

In organizing the ITAMS contract work, the WBS elements are aligned with the SOW and mapped into the organization. That mapping is shown in the organization in **Exhibit MP-3** in Section 2.0. In addition, to assure that all work is accounted for, the DRDs must be mapped onto the Organization / SOW / WBS structure. That mapping is depicted in **Exhibit MP-11**. To assure that the DRDs are accounted for properly in the process flows of each organizational function, the nature of work represented by each DRD must be examined and assigned to the correct step in the process. To aid in this, the DRDs were analyzed and parsed into categories such as plans, reports, or a combination of plans and reports. The results of this analysis are given in **Exhibit MP-12**. Using all the work accomplished thus far, the DRDs are categorized and aligned in hierarchical groups and related to one another. **Exhibit MP-13** shows the results of these groupings. The Management Plan (DRD 1) is the overarching Plan for the contract. In the next row are the subordinate management plans detailing specific work elements under the Management Plan. The next row represents the management reporting of the planned work. Please notice that there are clear relationships between the Resource Management Plan (DRD 5) and the reporting in DRDs 6, 22 and 25. There is also a close relationship between the Safety and Health Plan (DRD 9) and DRDs 19, 24, and 26. The next layer represents the technical DRDs which apply across all technical areas. The work on these DRD's is accomplished by the unique technical functions, but reviewed and coordinated by the DPM for consistency of delivery. The next tier represents the technical DRD plans followed by the DRDs which report on technical work. There is a final tier of DRDs which contain both technical planning elements and reporting elements. The importance of these is that they must be scheduled into work flows

at both planning and reporting milestones. Finally, each DRD icon has a letter and number listed above it. The letter is the DRD Category listed by NASA (Technical, Administrative, or SR&QA). The number is the Type of the DRD (1–Approval, 2–Submitted, 3–On Request). This drives the resource model used in the work flows since different activities are involved in the review and approval of unique DRD's.

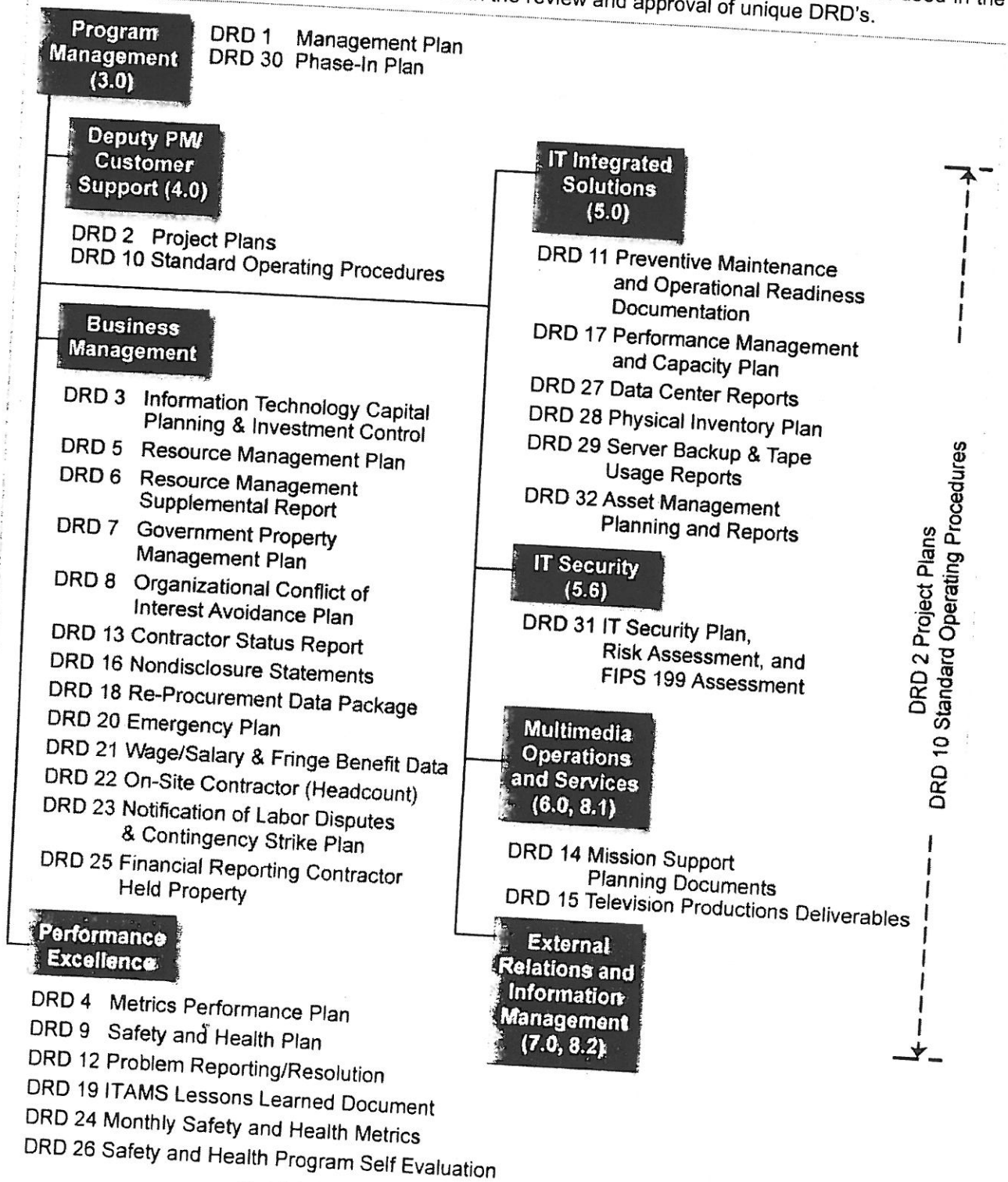

Exhibit MP-11. DRD Organization Mapping.

Program Management (3.0)

Plans
DRD 1 Management Plan
DRD 30 Phase-In Plan

Deputy PM/ Customer Support (4.0)

Plans
DRD 2 Project Plans
DRD 10 Standard Operating Procedures

Business Management

Plans
DRD 3 Information Technology Capital Planning & Investment Control
DRD 5 Resource Management Plan
DRD 7 Government Property Management Plan
DRD 8 Organizational Conflict of Interest Avoidance Plan
DRD 20 Emergency Plan

Reports
DRD 6 Resource Management Supplemental Report
DRD 13 Contractor Status Report
DRD 16 Nondisclosure Statements
DRD 18 Re-Procurement Data Package
DRD 21 Wage/Salary & Fringe Benefit Data
DRD 22 On-Site Contractor (Headcount)
DRD 23 Notification of Labor Disputes & Contingency Strike Plan
DRD 25 Financial Reporting Contractor Held Property

Performance Excellence

Plans
DRD 4 Metrics Performance Plan
DRD 9 Safety and Health Plan

Reports
DRD 12 Problem Reporting/Resolution
DRD 19 ITAMS Lessons Learned Document
DRD 24 Monthly Safety and Health Metrics
DRD 26 Safety and Health Program Self Evaluation

IT Integrated Solutions (5.0)

Plans
DRD 17 Performance Management and Capacity Plan
DRD 28 Physical Inventory Plan

Reports
DRD 27 Data Center Reports
DRD 29 Server Backup & Tape Usage Reports

Plan/Reports
DRD 11 Preventive Maintenance and Operational Readiness Documentation
DRD 32 Asset Management Planning and Reports

IT Security (5.6)

Plans
DRD 31 IT Security Plan, Risk Assessment, and FIPS 199 Assessment

Multimedia Operations and Services (6.0, 8.1)

Plans
DRD 14 Mission Support Planning Documents
DRD 15 Television Productions Deliverables

External Relations and Information Management (7.0, 8.2)

Plans DRD 2 Project Plans
DRD 10 Standard Operating Procedures

ITAMS-106

Exhibit MP-12. DRD Plans & Reports.

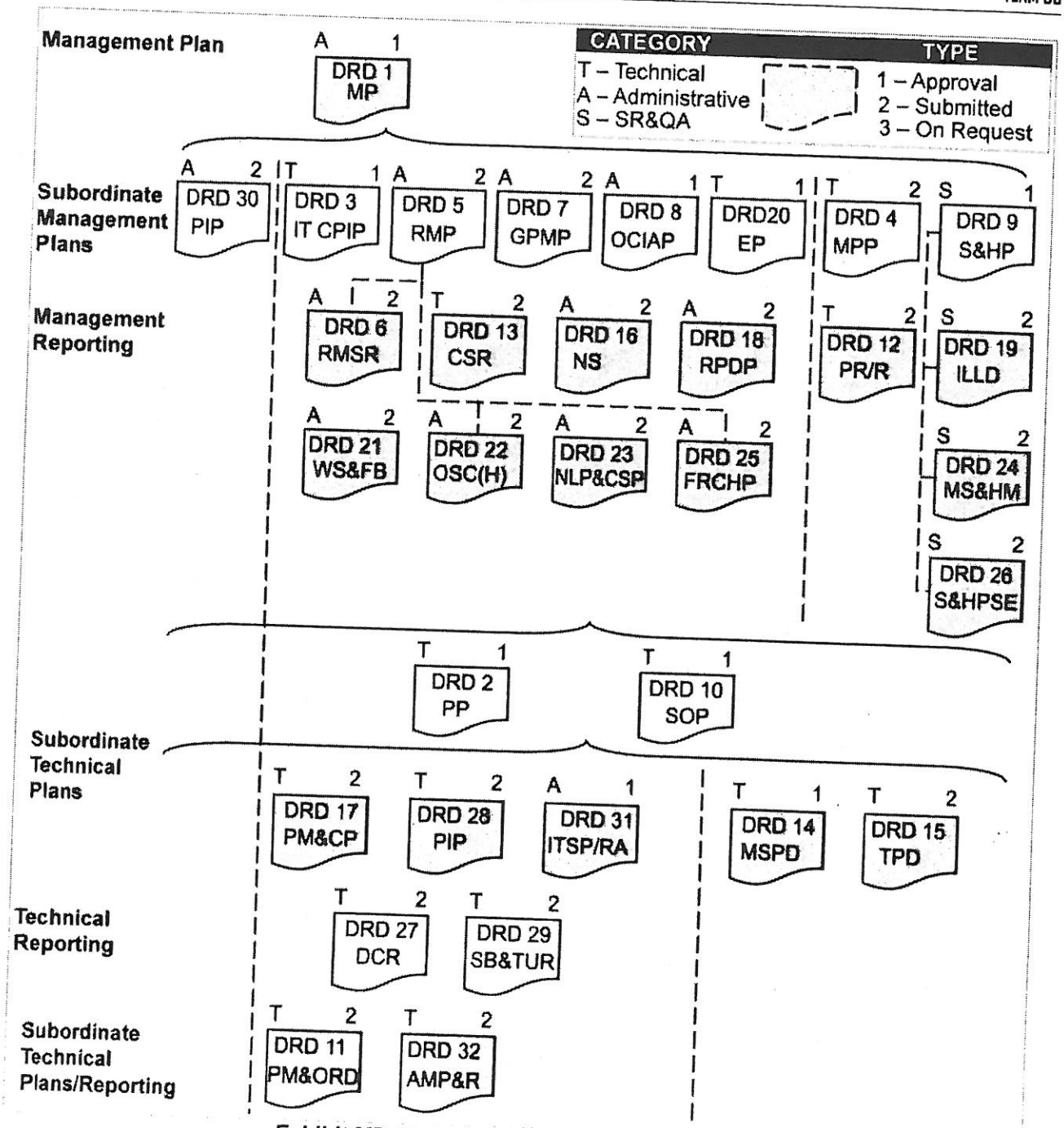

Exhibit MP-13. DRD Hierarchical Relationship.

8.0 ITAMS POLICIES AND PLANS

ITAMS activities are planned, monitored, and controlled through the use of several integrated plans and processes. Areas addressed include program monitoring and control processes, measurement against the plan, program commitments, program risk management against the plan, project data against the plan, data management, and corrective action plans. In **Exhibit MP-14** are significant policies, plans, unique work instructions (UWIs), and applicable documents that help satisfy the ITAMS contract requirements.

Directive No.	Subject
NPD 1000.0A	NASA Governance and Strategic Management Handbook
NPD 1000.3D	The NASA Organization w/Change 6 (August 14, 2009)
NPD 1000.5	Policy for NASA Acquisition
NPR 1382.1	NASA Privacy Procedural Requirements
NPD 1382.17H	NASA Privacy Policy
NPD 1383.1B	Release and Management of Audiovisual Products and Services
NPD 1440.6H	NASA Records Management
NPR 1441.1D	NASA Records Retention Schedules (w/Change 5, 6/26/09)
NPR 1450.10D	NASA Correspondence Management and Communications Standards and Style w/Change 1 (12/30/2008)
NPD 1450.12D	Handling Correspondence and Information From the Executive Office of the President (Revalidated 1/27/09)
NPD 1490.1G	NASA Printing, Duplicating, and Copy Management
NPD 2540.1F	Personal Use of Government Office Equipment Including Information Technology
NPD 2570.5D	NASA Electromagnetic (EM) Spectrum Management
NPD 2800.1B	Managing Information Technology
NPR 2800.1B	Managing Information Technology
NPR 2810.1A	Security of Information Technology
NPD 2810.1D	NASA Information Security Policy
NPD 2820.1C	NASA Software Policy
NPD 2830.1	NASA Enterprise Architecture
NPR 2830.1	NASA Enterprise Architecture Procedures
NPD 4200.1B	Equipment Management (Revalidated 01/23/06)
NPR 4200.1F	NASA Equipment Management Procedural Requirements
NPR 4200.2B	Equipment Management Manual for Property Custodians w/Change 1, 9/11/03
NPR 4300.1A	NASA Personal Property Disposal Procedural Requirements (Revalidated 2/17/06 with Change 1)
NPD 4300.1B	NASA Personal Property Disposal Policy (Revalidated 1/31/06)
NPD 7120.4C	Program/Project Management
NPR 7120.5D	NASA Space Flight Program and Project Management Requirements
NPR 7120.6	Lessons Learned Process
NPR 7120.7	NASA Information Technology and Institutional Infrastructure Program and Project Management Requirements
NPR 7150.2	NASA Software Engineering Requirements
NPR 8570.1	Energy Efficiency and Water Conservation w/Change 2 (4/04/08) REVALIDATED
NPR 8590.1	NASA Environmental Compliance and Restoration (ECR) Program
NPR 8715.1	NASA Occupational Safety and Health Programs w/Change 3 (02/13/06)
NPR 8715.3C	NASA General Safety Program Requirements (w/Change 4 dated 7/20/09)
NPR 8820.2F	Facility Project Requirements
JPD 1382.4K	The JSC IT Use Policy
JPD 8500.1	(FOIA Policy)
	JSC Environmental Excellence Policy
OSHA CSP 03-01-003	NASA Guidelines for Use of NASA Imagery.doc
JSC 17773,	Voluntary Protection Program (VPP)
JPR 1700.1	Instructions for Preparation of Hazard Analysis for JSC Ground Operations
JSC 29173I	JSC Safety and Health Plan
	IRD Configuration Management Plan
	CBA for IAM at WSTF
	CBA for the TEC work at WSTF
	JSC IT Operations and Integration Charter
	JSC IT Investment Board Charter
	05-2512 Wage Determination
	Taxonomy Assessment Scan

Directive No.	Subject
	MFR Decision Memorandum (2007) from the Associate Administrator (policy on use of cell phones, TVs PDAs, etc.)
JSC-29638	IRD Server Operations Management Plan
	The NASA Style Guide (graphics)
	HSPD-12
UWI-AP141	Scheduling ISS In-flight Events procedure
NASA SP 7084	(Grammar, etc. handbook for writers)
NASA-STD-2818	NASA Digital Television Standards

Exhibit MP-14. ITAMS Relevant NASA Policies.

8.1 Management Process Approach

Our ITAMS Management Plan (DRD 01) guides and defines the overall management control procedures used on this contract.

Our overall approach for the conduct and implementation of the SOW begins with a commitment process as shown in **Exhibit MP-15**. The DB Strategic Operating Plan (SOP) is the vehicle for establishing our corporate resource and management commitments to the ITAMS program. ITAMS PM negotiates the program resource requirements semiannually and revises the SOP as necessary to ensure the needs of program are met. Upon reaching agreement with the CEO, the SOP becomes binding on all DB management. Our successes on other contracts attest to the effectiveness of the SOP commitment process; we readily obtained all company resources required by these programs.

ITAMS PM, Jeff White, is named executive agent for the corporation, authorized to represent DB on all initiatives related to the program. With this authority, the PM has coordinated program technology and support requirements with other DB organizations and executed binding agreements that detail the responsibility of each organization in the ITAMS Program. These steps assure the autonomy of our program manager.

The Management Plan consists of an index of our internal operation plans, directives, and procedures. Our detailed planning extends the commitment process by the development of the Management Plan (DRD 01), including the index of our internal operations plans, directives, procedures and subordinate management and technical plans as shown in **Exhibit MP-16**. When the work of a subcontractor is essential to contract fulfillment, the subcontractor's activities are integrated with the procedures and plans for schedule, cost control, and technical management. The completeness of our planning is depicted in the index of our management and technical plans in **Exhibit MP-11**. Each plan is "owned" by a designated manager in our organization structure.

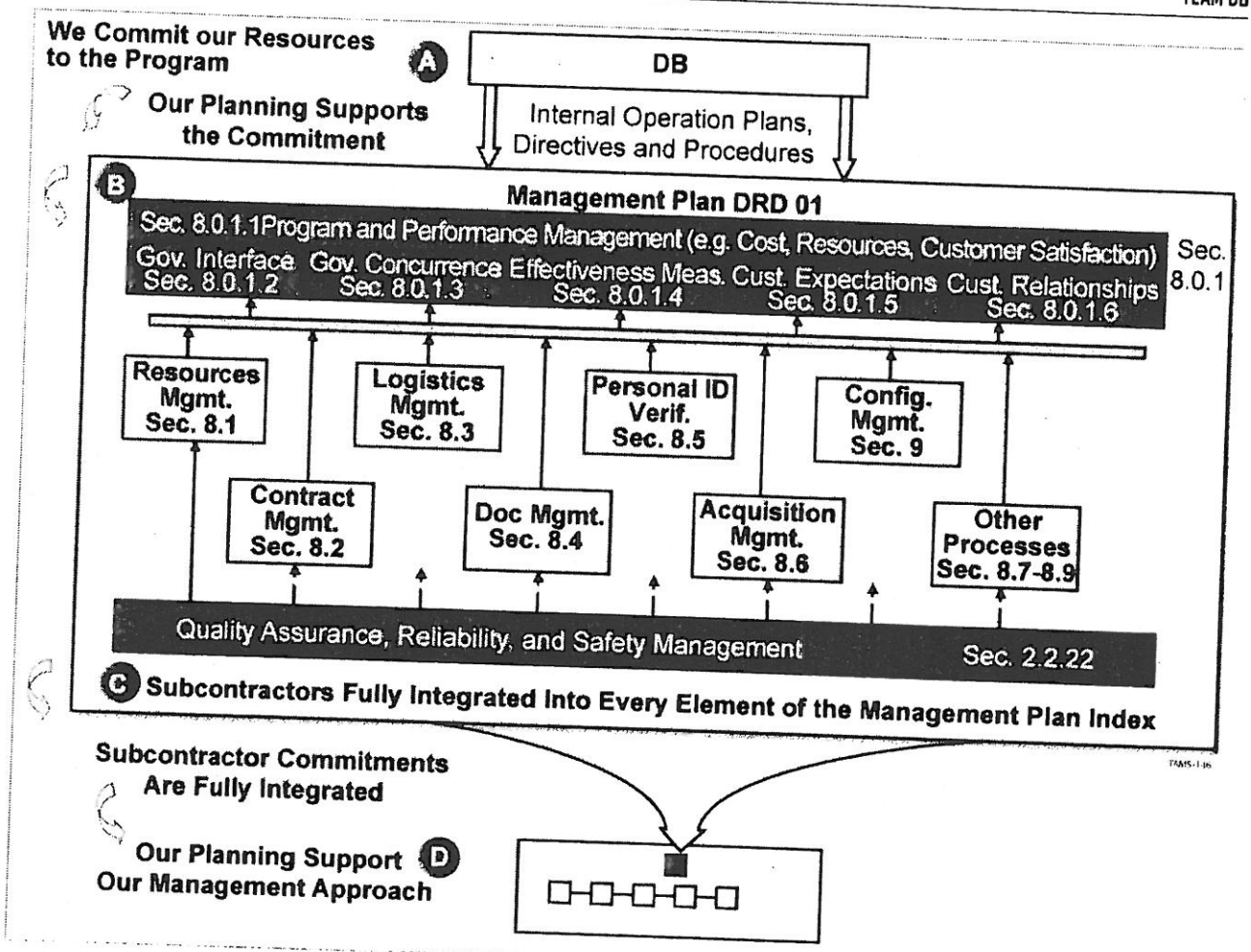

Exhibit MP-15. Program Commitment Process.

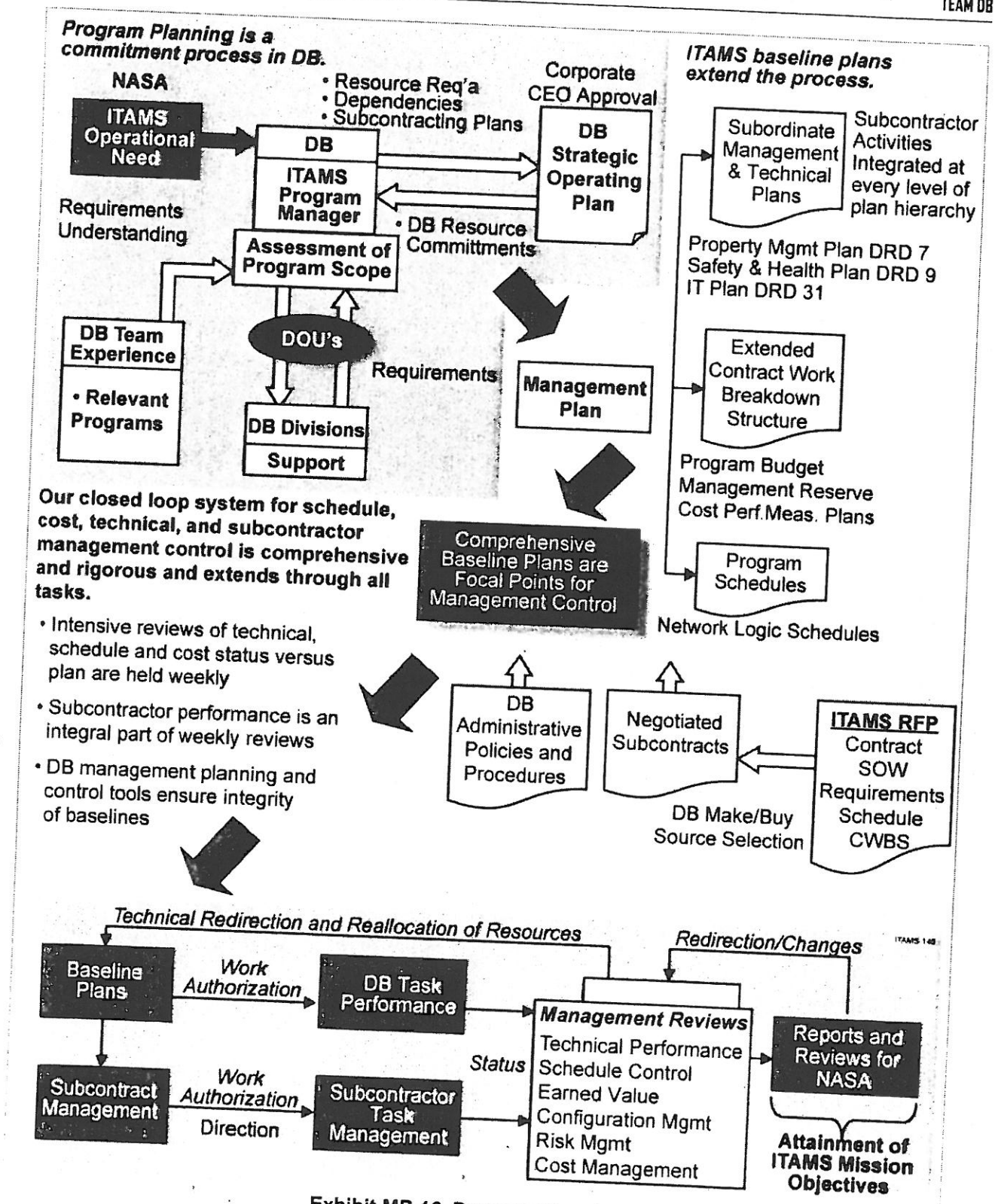

Exhibit MP-16. Program Planning.

Our Management Plan (DRD 01), defines the interrelationships of all working-level plans necessary to bring the program to fruition. Detailed supporting plans are contained in subordinate documents that collectively constitute a control hierarchy. Each supporting plan complies with applicable program DRD's.

Our Management Plan Control Hierarchy Ensures NASA and DB visibility into program performance- The management control system provides rigorous tracking and visibility into performance throughout the program life cycle. It is designed to monitor implementation of our plans and spot variances early enough to permit our management team to take timely corrective action. As further described in Section 8.1.1, the process is a closed loop that is stimulated by the baselined plans and technical redirection and reallocation of resources that result from the management team review process.

This review process encompasses technical and management reviews of both DB and subcontractor activities to ensure acceptable products that comply with program requirements.

As has been our practice on other programs, we continue to afford NASA visibility into our management planning and control reviews and reports throughout the ITAMS Program life cycle, beyond the requirements of the contract.

Subcontractor Management – Planning for subcontractor support is an integral part of our management system. We employ our established management processes for make or buy analyses and subcontractor source selections. We review our subcontractors' management systems for planning, scheduling, cost control and technical management and determine that they are responsive to the demands of the ITAMS Program. Because of the similarity of their management systems to our own, we are able to integrate their work into every level of our baseline management plan hierarchy. Negotiated contracts with our subcontractors embody their corporate resource commitments to the program.

Our Management Plan (DRD 01) fulfills the plan requirements to support the overall management approach described in **Exhibit MP-15** in Section 8.1.

8.1.1 Program and Performance Management Process

Our closed loop management process (**Exhibit MP-17**) benefits NASA management by providing maximum visibility into and control over program products, resources and customer satisfaction. This process consists of systematic planning; disciplined implementation; comprehensive measurement of technical performance, schedule and cost; and analysis of measurements as the basis for management action to resolve any developing problem. DB and its subcontractors are actively involved at all management levels. Measurements and analysis relayed to NASA assist the NASA decision-making and approval process. Because changes are readily accommodated, DB can respond promptly to NASA redirection.

Plan Work – The planning process transforms program requirements into a set of approved, baselined plans and work authorizations. Our understanding of ITAMS requirements, gained from years of work on NASA programs has prepared us to achieve comprehensive planning. DB management has partitioned tasks into manageable segments, established a dedicated organization, defined a Contract Work Breakdown Structure based on the NASA Work Breakdown Structure, and assigned task and product responsibilities. Functional managers have accountability for these tasks and participate in the definition of the detailed schedules and resources. We establish controls; define measurements, schedules and criteria for assessing progress; and document management policies and procedures. Contract change orders and task orders will initiate new planning activities.

Perform Work – During the implementation process, NASA-approved plans are carried out to produce program services and deliverables required by the program.

Analyze/Evaluate Performance – Technical, cost and schedule measurements are taken throughout the implementation process at frequent, regular intervals. As products are generated, structured reviews and technical inspections provide additional measurements. The analysis process focuses on comparing measured results with predefined values, assessing the impact of any variances, and reporting the results to management for their review. Analysis of technical, cost and schedule measurements provides checks-and-balance techniques for ensuring product integrity, and cost and schedule objectives are met. Our visibility and control techniques are shown in **Exhibit MP-18**.

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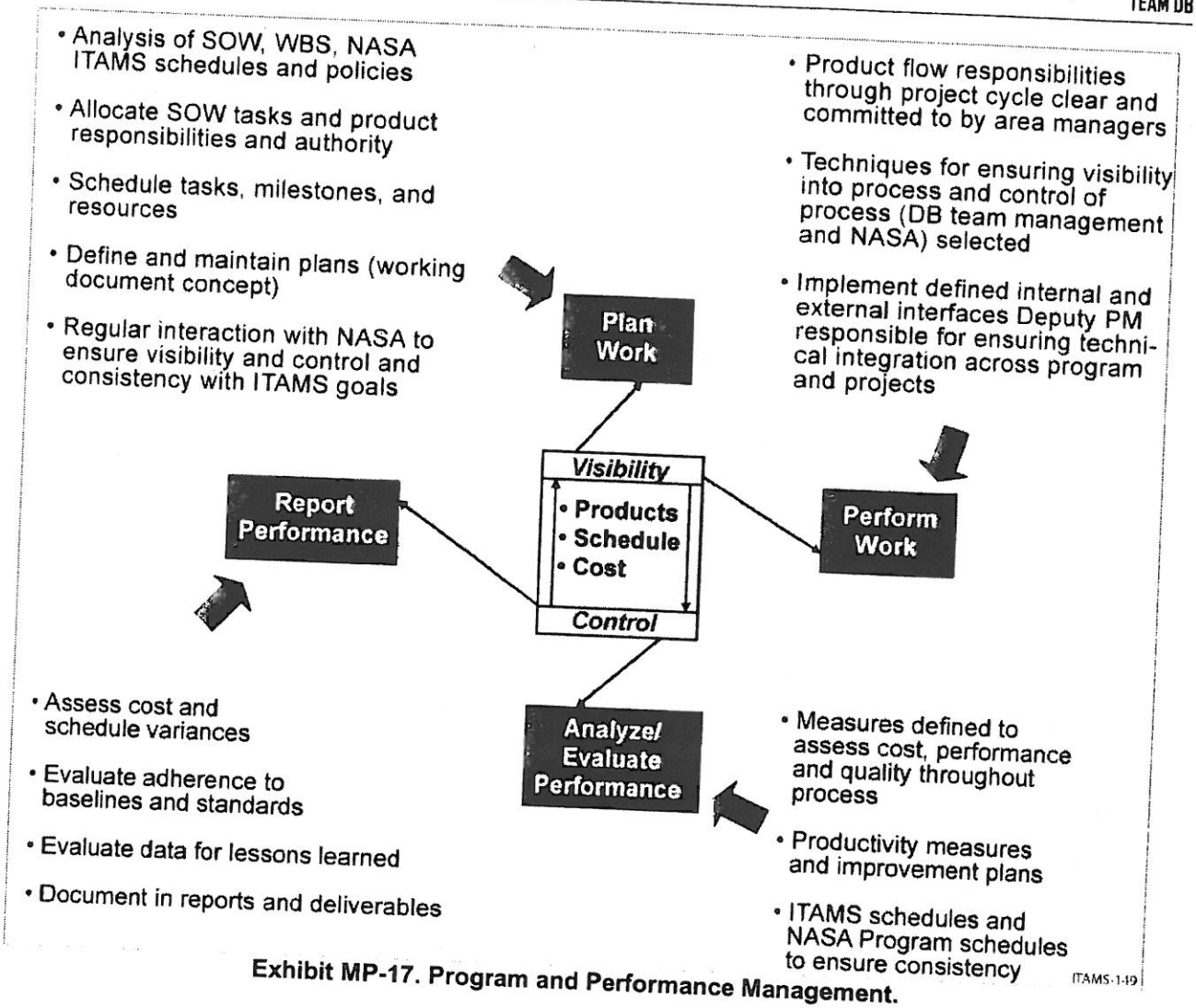

Exhibit MP-17. Program and Performance Management.

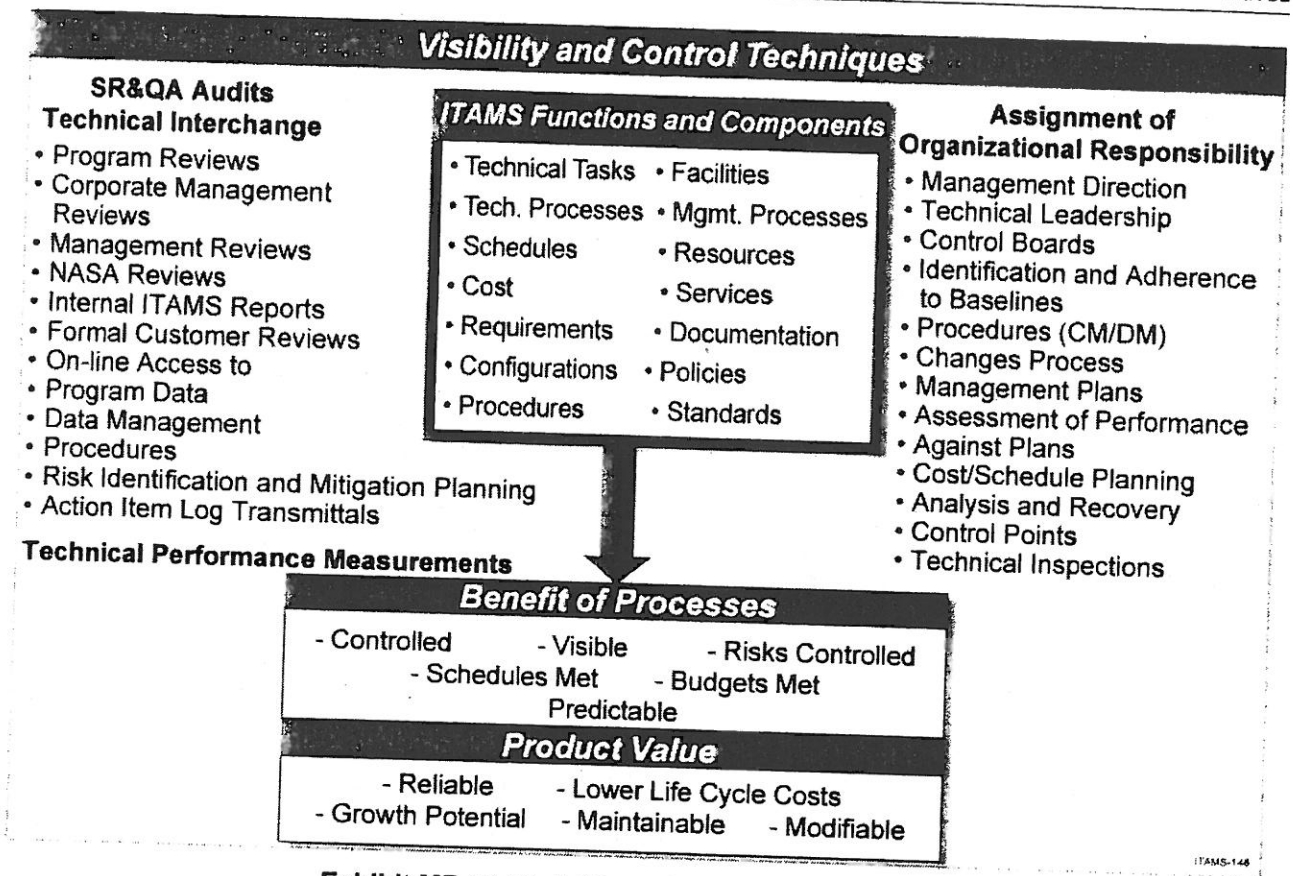

Exhibit MP-18. Visibility and Control Techniques.

Report Performance – The reporting of measurement and analysis results, and frequent internal and NASA management reviews of DRDs are used to communicate status, progress and problems so NASA and DB management can direct prompt action: redirection or replanning, authority to proceed to the next task, or delivery of approved program products.

8.1.2 Government Interface

The success of the ITAMS will be strongly influenced by the working relationship between JSC and the ITAMS contractor. Visibility into status and clear lines of communication are essential. Close coordination with NASA panels and programs is also important to ensure satisfaction of user needs

Communication Approach – We closely involve the NASA Contract Manager when we identify information needs and interfaces. We develop a policy specifying the purpose, method and responsibility for each interface. We implement those communications interfaces based on NASA approval and keep NASA aware of these activities through our regular reporting channels.

We select communication methods proven to be the most effective and efficient in environments similar to this program; for example, the use of electronic communications, technical interchange and working groups, and regular customer communications.

8.1.3 Government Concurrence

Product and service deliveries are established by NASA directives through Task Orders. We support NASA in this process by making recommendations of task contents to support user needs, defining impacts in terms of resource and skill commitments, and establishing a business case to help NASA weigh resource expenditures against program benefits. In all contracts, we routinely deal with changing priorities and workforce adjustments. We have gained considerable experience in promptly responding to NASA direction while producing high quality products and services. We propose TOs that are SOW based. As program requirements are defined in TOs, we replan as required to support the new direction and reflect all changes to baselines and schedules in the appropriate development plan. These task

proposals and plans are implemented only upon NASA review, critique and concurrence with the proposed work. This approach fully supports NASA's ongoing annual planning and tracking cycles (runouts, reviews).

8.1.4 Effectiveness Measurement

Exhibit MP-20 depicts how the various areas of management interact to provide an integrated task management approach to planning, monitoring, and controlling tasks in the program. The product or service is identified and sized. The size is then used to estimate labor, resources and defects which are used to balance the schedules. The balanced schedules, along with subcontractor inputs are used to forecast cost and produce task budgets. A risk assessment is performed to assure feasibility of the task. The monitoring process provides accounting mechanisms, measurements and risk analysis to provide task status. After the plan is negotiated, scope change is controlled, status assessed and effort redirected to address problems. Control is exercised by acceptance of deliverables.

The heart of this approach is a set of measurements and performance standards upon which organizational effort and quality models are based. The models enable effort and quality forecasts to be made which are used to load the schedules and balance the earned value (product, effort and schedule) and quality triangles to be balanced. This is key to risk analysis and selection of a feasible task plan. In process actual measurements are then used to assess task status. Upon task completion, customer satisfaction is elicited. Satisfaction scores of less than excellent can then be diagnosed using task process measurements to set in motion process/product improvements so future satisfaction can be increased. **Exhibit MP-21** shows our plan, monitor and control approach in engineering management.

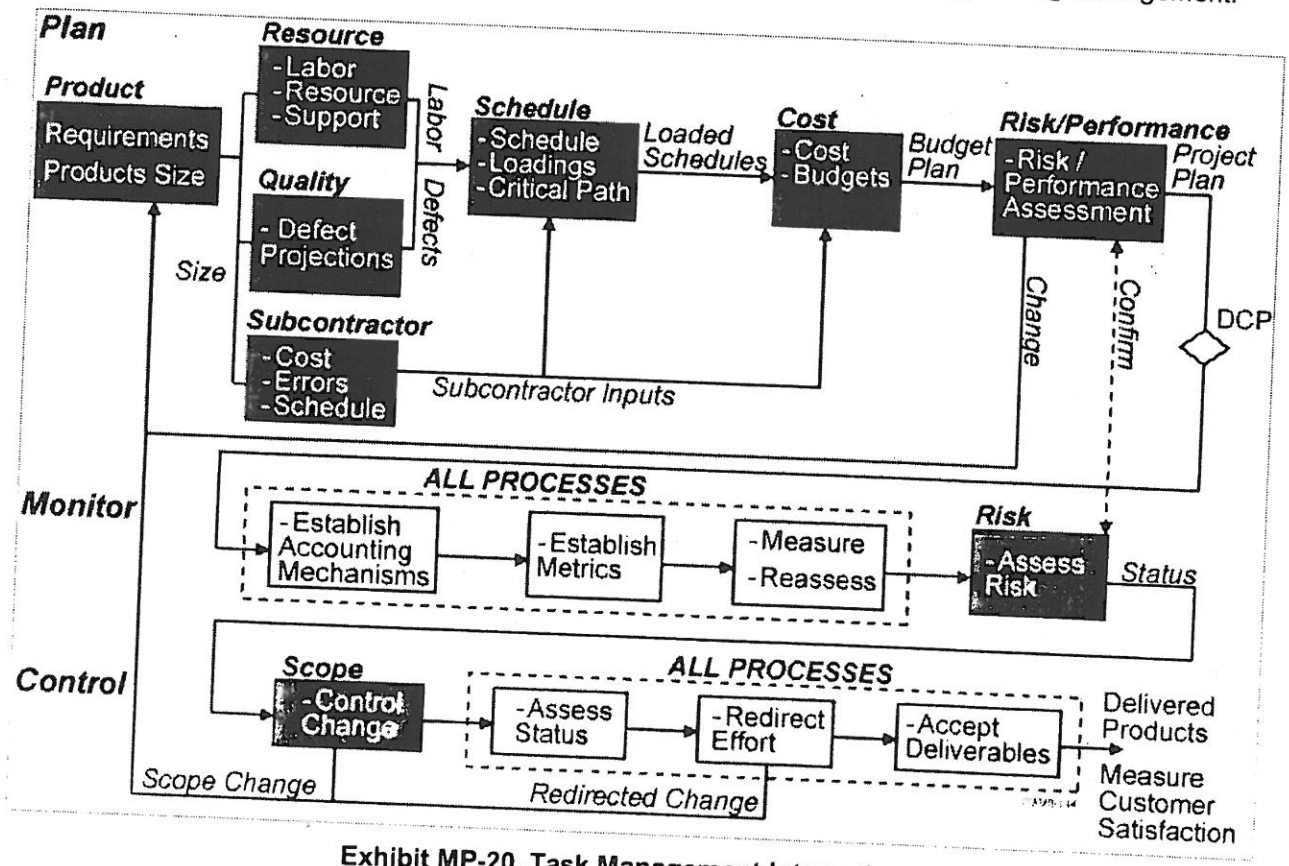

Exhibit MP-20. Task Management Integration.

Measurements – To adequately track each task, provide data for pipeline management and to accurately measure and predict task and organizational capacity, a measurement system is mandatory. This measurement system identifies each measurement to be used. It provides for collection of data associated with each measurement and for its storage and retrieval. This data is used to model the performance of a task and to calibrate the model for use on a new task. Forecasts from the models are

used to establish performance targets within a task to support management decisions. These targets are used to control the technical processes. Trends of data from tasks are used to identify potential process changes to improve the effectiveness and efficiency of future tasks. A process change must be accompanied by consistent measurement model changes to be successful.

8.1.5 Customer Expectations

Our team has studied many systems designed to deliver quality in products and services to customers. These systems include ITILv3, AS9100, ISO 9000, Commerce Department's Baldrige Award, SEI's CMM and CMMI, and TQM. These features include: a focus on the customer and meeting their needs; leadership of commitment to a quality culture; involving everyone in the quality process; identifying, documenting, teaching and improving processes; systematic management of the processes for effectiveness and efficiency; continuously improving the processes; data based decision making; and mutually beneficial supplier relationships.

Measuring Customer Expectations – DB uses its audit approach including focus on the customer to understand the reason behind each performance standard in the contract. Our performance management system tracks specific data on tasks and relates that data to the customers performance standard. This enables early identification of issues and diagnostics for unmet expectations enabling quick remedy.

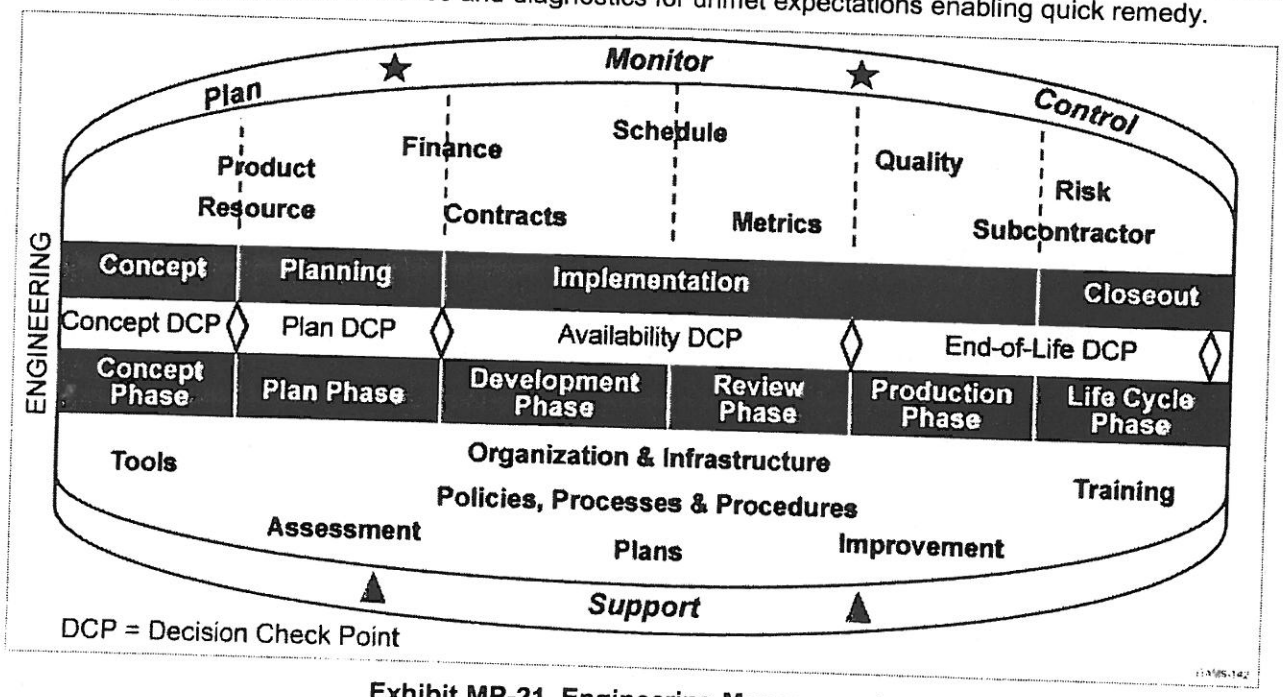

Exhibit MP-21. Engineering Management.

Reporting on Customer Expectations – DB monitors each task's status on a weekly, monthly and task milestone basis. At any point the relationship can be drawn between the task data and impact on customer satisfaction. In addition, trend data is monitored across tasks for possible process modifications to improve effectiveness and efficiency. These activities are reported on a monthly basis and at the quarterly performance reviews held with the customer.

8.1.6 Customer Relationships

DB's experience as a prime contractor indicates that success is determined largely by the day-to-day working relationships with the customer. Our program manager recognizes this working relationship as his highest priority and assures that all levels of management give it the same attention.

Section 8.0.1.1 discusses government interfaces, communication channels and communication methods. These discussions include interface responsibilities, information flow, reporting methods and demonstration of the effectiveness of the methods. While these techniques are essential to the process of good communications, an experienced manager will tell you that the key ingredient to good relationships is trust.

DB has told everyone on its team that the worst thing that can happen within a collaborative team environment is if someone knows of a problem and does not inform the teammates. This delays the initiation of a remedy and may put the whole task in jeopardy of failure. In contrast, raising the issue early and tracking it to determine the nature of the issue and its solution gives the team longer to fix a problem that is there.

We, as a team, resolve to follow this approach in working with one another. We further resolve to work in this same manner as a "trusted partner" with NASA. We will always use open communications to take direction, ask for advice, offer solutions, work-out issues, make plans and track status to bring value to JSC's ITAMS work with JSC programs and products. We are not just asking for NASA's trust. As we always do with our customers, we intend to earn it.

8.2 Resources Management

The resources plans address what physical resources (people, equipment, material, facilities) and what quantities of each are needed, when they are needed to perform program activities and the method for updating the plan. It requires an annual contract-wide requirements and resources review as defined in DRD-5. The internal review is completed prior to the annual Capital Planning and Investment Control Process (CP/ICP) and the IRD Internal Task Agreement Process. **Exhibit MP-22** identifies the actions our groups and project managers perform for the ITAMS resources management process. **Exhibit MP-23** illustrates our resource management system.

Responsibility	Action
Group/Project Manager	• Identify resource requirements for work activities that are not project specific (e.g., safety program implementation, human resource administration, procurement of office supplies, etc.) and submit them to the ITAMS Program Manager
Group/Project Manager	• Review work requirements and determine: • Number, skill mix, and skill levels of personnel required to perform work tasks • Amount and type of training needed to enhance personnel skills or technical proficiency in order to perform required work • Amount and type of training needed to meet safety regulatory requirements • Availability of and/or need for other resources (e.g. office space and furnishings, laboratory space, computers, software, safety equipment, and tools) to support work requirements
Group/Project Manager	• Review available resources and determine if: • Individuals with the required skills are available • Rescheduling of personnel assignments can satisfy labor requirements • Available training can enhance the skill of existing personnel • Existing facilities/equipment are adequate to meet current needs
Group/Project Manager	• Initiate action if deficiencies exist in any of the above areas. Actions may include: • Hiring additional personnel • Procuring contract labor • Renting work space and tools • Arranging for specialized training • Procuring computers, software, equipment, etc.
Group/Project Manager	• Review resource utilization on a monthly basis. Review resource requirements, and develop and implement a plan to correct deficiencies if the status of work accomplished is not consistent with work plans.

Exhibit MP-22. Resource Management Actions.

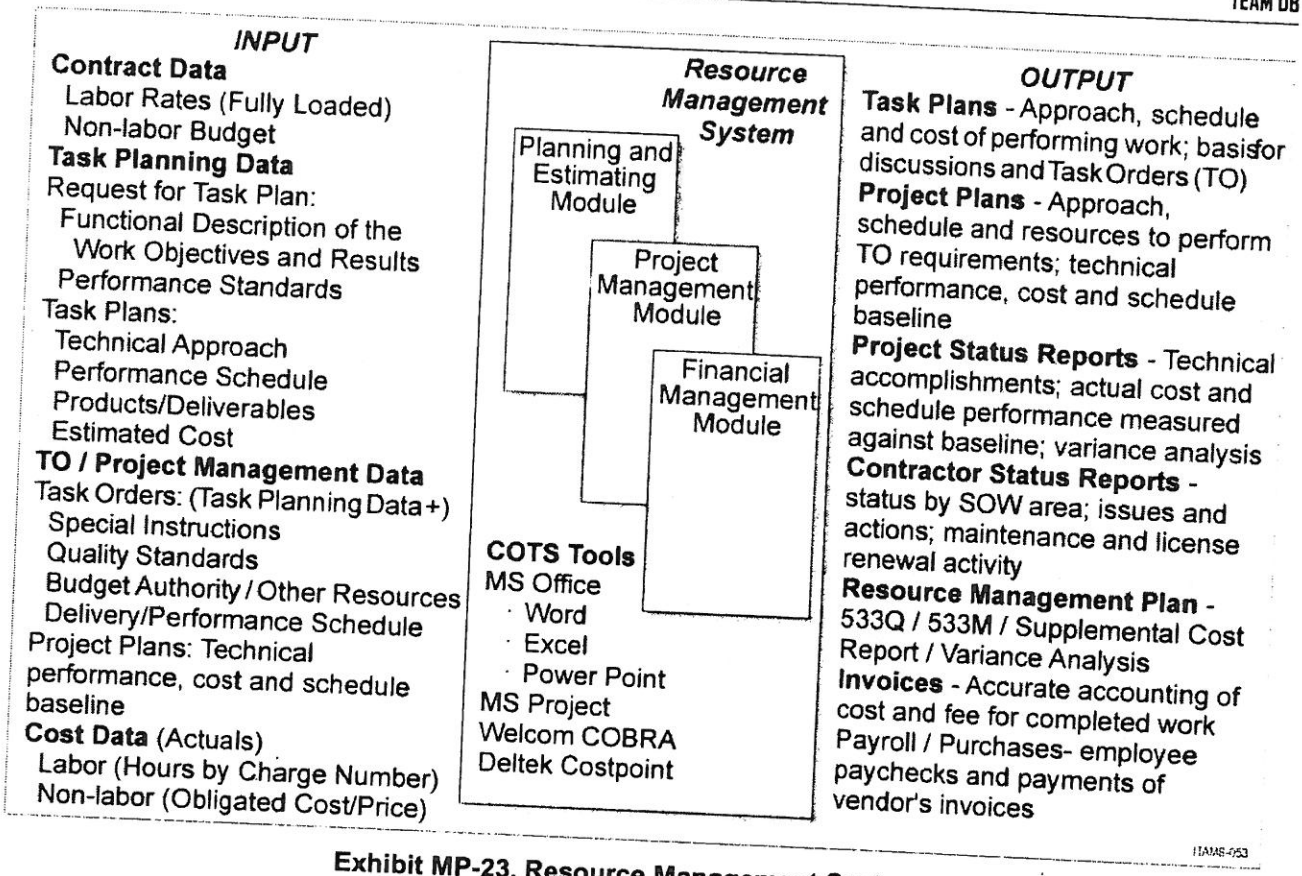

Exhibit MP-23. Resource Management System.

8.2.1 Communications Management

Communications management includes the timely and appropriate generation, collection, dissemination, storage, maintenance, and ultimate disposition of program information to relevant stakeholders.

8.2.2 Facilities / Security Plan

ITAMS is physically performed in several locations in Houston Texas and at other associated facilities including White Sands Test Facility in New Mexico.

- Facilities Staff Roles and Responsibilities provides facility personnel guidance in carrying out their overall responsibilities and tasks to support NASA facility operations
- Facility Office Space Guidelines establishes the guidelines for standard office sizes and basic office furnishings.

The ITAMS security program is implemented and maintained in accordance with NPG 2810.1, Security of Information Technology. ITAMS physical, personnel, information, communications, and IT security represent special concerns that justify their own suite of documentation. While security responsibility is that of the Contract Security Manager, all offices or organizations of the ITAMS must be sensitive to security issues.

8.2.3 Property Management

The DB Government Property Management Plan defines the contractor's use, maintenance, repair, control, protection, and preservation of Government property. It describes our approach to receiving, handling, stocking, maintaining, protecting, issuing and tracking Government property. The document is in full concert with and meets the requirements of the following related documents:

- NASA Procedural Requirement (NPR) 4200.1, Equipment Management Procedural Requirements
- NASA Procedural Requirement (NPR) 4200.2, Equipment Management Manual for Property

Custodians

- FAR Part 45, Federal Acquisition Regulation (FAR), Government Property
- Federal Acquisition Regulation (FAR), Part 52.245-1, Government Property
- Federal Acquisition Regulation (FAR), Part 52.245-2, Government Property Installation Operation Services
- NASA FAR Supplement (NFS) Part 1845, Government Property
- NASA FAR Supplement 18-52.245-71, "Installation Accountable Government Property"
- NASA FAR Supplement (NFS) Part 1852, Solicitation Provisions and Contract Clauses

As the prime, DB Consulting Group is responsible to the Government for the accountability, control, and reporting of contractor-acquired property and Government Furnished Property (GFP) during the execution of the ITAMS contract. All referenced FAR and NFS clauses will be flowed down to each subcontractor.

ITAMS will employ a Procurement and Property Administrator (PPA) who will oversee performance of all property functions and control ITAMS property located at JSC and DB Facilities. The PPA will be the primary Property Custodian for ITAMS. Additional ITAMS Property Custodians will support the PPA in these functions. This includes a team that will reside on-site and support NASA in their property control processes as well as a team of Government Furnished Property (GFP) Custodians. Administratively, Property Custodians fall into various work groups and will, typically, act as Custodians over property in or around their primary work area.

It is important to note that the on-site Installation Accountable Government Property functions are performed in accordance with NPR 4200.2, *Equipment Management Manual for Property Custodians* and under the coordination of NASA. The GFP functions are performed according to the DB Government Property Management Plan and are entirely the responsibility of Team DB. We employ the PPA approach in order to ensure that the different functions are performed in concert with regular communication and common purpose. The PPA and the other Property Custodians will interact with JSC property personnel as prescribed in the previously referenced governing publications.

Team DB will not duplicate the property system used by NASA to track installation-accountable property, but will track property in our own ITAMS Property Management System to support the property management, control, and reporting functions for Contractor-acquired property and GFP. The ITAMS Property Management System includes physical files and an ITAMS Property Database.

Team DB will employ the Deltek Costpoint Inventory module as our Property Database to maintain an adequate property control system for government property that will meet the guidelines of Federal Acquisition Regulation (FAR) Part 45, NASA FAR Supplement (NFS) Part 1845, and all specified property clauses included in the ITAMS contract.

Refer to the DB Government Property Management Plan for considerable detail of all mechanisms to be used to control and protect Government property.

8.2.4 Staffing, Training, and Certification of Personnel

Established processes defined in ITAMS Human Resources policies for hiring of appropriate personnel and for training and certification are employed to ensure staff availability, competence, reliability, and performance of the work force required to execute the management and technical activities identified in each TO. The PM is responsible for approval of hiring personnel and allocating available resources to perform the identified tasks; the PEO is responsible for overseeing the training and certification processes.

Each project TOL identifies infrequently performed procedures that require periodic exercises designed to maintain operator familiarity and proficiency. The nature and frequency of these exercises is established by the TOL, and may take the form of a procedure review, a paper simulation or one using available hardware/software components, or actual on-line performance. The project TOL keeps records identifying the date, nature, participants, and evaluation of the results (to include any identified actions) of all such exercises. ITAMS PEO establishes an integrated process that provides for the determination of training requirements; development and implementation of a formal training plan, and provides for the

maintenance of associated training data (i.e., identification/development of courses, attendees, suppliers, costs, and schedules).

Effective resource management requires 1) understanding the status of resources at all times, and 2) backing up the operation with redundant systems that can come on-line immediately, if necessary, to continue the production process uninterrupted. In other words, the best defense is a sound preventive maintenance program, together with a staffing plan that schedules appropriately trained back-up personnel to be on call and step in to substitute when needed. Our Learning and Development Program ensures ready/able backups are identified and receive proper training and/or cross-training.

After the scheduling process, we assign resources to activities. Our IMS charts the availability of all our people and tells what percentage of time and to which Task Orders they are currently committed. This lets us quickly schedule personnel resources based on priorities and individual staff availability. Our TOMS solution is the component of IMS that facilitates this process.

For maximum operational effectiveness, we need to manage how our people are used. Proper staffing depends on knowing what skills are required to carry out each operation, the daily schedule, and staff availability. IMS provides the window through which we can view the whole picture, adjusting priorities and fine-tuning the match-up of qualified personnel for whatever daily operations are scheduled. We consider current work assignments before allocating any new daily tasks to our personnel. IMS takes a proactive approach to staffing needs in an ever-faster-paced production environment. IMS also predicts future staffing needs as we tie together individual personnel capabilities with our strategic business objectives. **Exhibit MP-24** shows the Task Order planning and execution process. The feature and benefits of IMS which are enabled by our TOMS solution are shown in **Exhibit MP-25**.

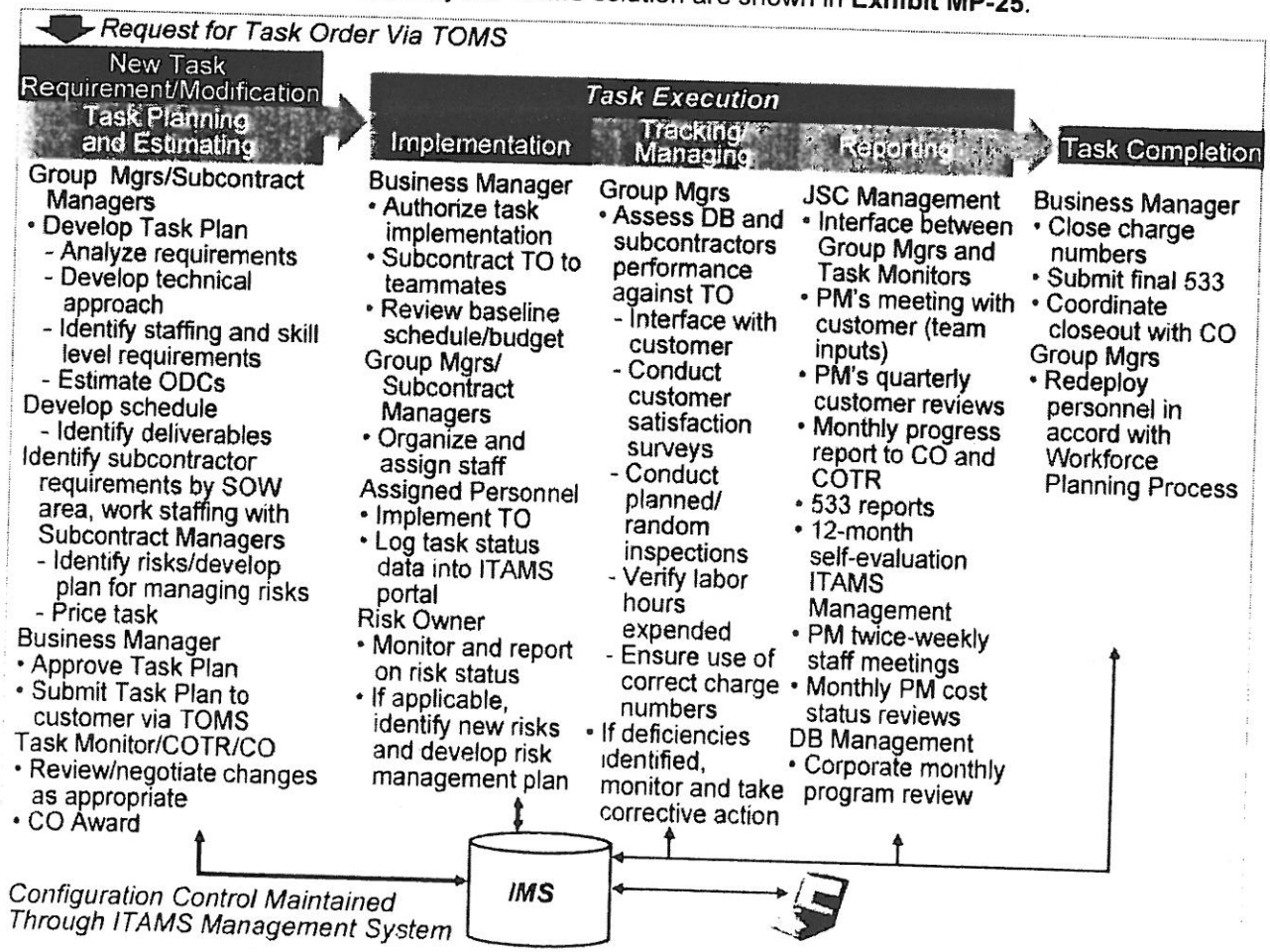

Exhibit MP-24. Task Order Planning and Execution Process.

Use or disclosure of data contained

IMS Feature	Tangible Benefits to JSC
Web-based 533s (current and historical data)	• Eliminates paper copies (unless requested), electronic archive • Facilitates timely decision-making • Allows more timely contract and task financial information
Cost trend and variance performance reports—contract and task	• Makes cost performance—planned vs. actual, labor and ODCs—status available in a timely manner • Allows more effective cost-performance surveillance
Resource Breakdown Structure (categorizing all personnel by discipline & level)	• Facilitates better personnel utilization and accommodates cross-utilization • Forecasts accurate training needs through current skills assessment
Series of training materials used to provide "hands on" experience	• More effective training of ITAMS staff • Reduced training costs
Seamless interface into TOMS	• Eliminates non-value-added processes, improving performance • Reduces total life-cycle costs associated with administration • Improves visibility into all phases of Task Order management processes
"TurboTax" approach to facilitate task estimating	• Helps ensure all task requirements met • Greatly simplifies process of entering required information during task planning process by embedding intelligence into the tool and process (e.g., staffing, ODCs, etc.) • More efficient; saves ITAMS management team time that in turn can be reinvested in improving overall operations
Voice of the Customer (VOC) access to provide feedback	• Makes it easy for customers to provide feedback • Gives status of all VOC requests and responses on-line 24/7
Automated e-mail alerts and notifications	• Flashes icon upon log-in when actions required—no inbox "dead time" • Sends notification/alert to alternate staff during absences—no delays or lost work time

Exhibit MP-25. IMS Features and Benefits.

Equipment is managed and scheduled. We establish preventive maintenance plans to keep our equipment in top working condition. These plans provide an online preventive maintenance report detailing the system, date of completion of the maintenance, and description of the work performed. We provide an Operational Readiness Check (ORC) Report listing the system affected the date of completion of the ORC activity and the description of the work performed.

We determine the useful life of our equipment and make replace/fix recommendations prior to experiencing costly downtime or material waste. New technology is introduced when significant savings warrant the replacement of outdated equipment.

We inspect our facilities daily to head off unsafe conditions. Just as for our equipment, we establish preventive maintenance plans to keep the facilities safe and operational. We address maintenance problems immediately, not allowing them to degrade into an unsafe or uncontrollable condition.

Our experienced management and administrative personnel, by using the capabilities of our cost management system, ensure realistic monitoring and control of day-to-day costs. We prepare current-month cost and labor actuals and next-month estimates. Variances between planned and actual costs are readily and accurately identified, and variance explanations (and corrective actions, as appropriate) are provided as addenda to the 533M and 533Q reports. We conduct an annual internal contract-wide resource review and prepare recommendations for current and future years based on contract requirements.

8.2.5 Meeting Planning and Management

One of our principal methods for communicating status and activities on ITAMS is the effective use of meetings. As such, planning and managing meetings with forethought is required. Good meeting practices exercised on ITAMS include setting agendas, identifying meetings by purpose/location/type of information exchanged and participants, keeping direction and focus during meeting, tabling other issues for another meeting, achieving meeting goals/decisions, managing Action Items from meetings, and documenting meeting results and key points of contact for DB and Suppliers.

The following meetings and preparation activities are typical for the ITAMS program.

- Internal staff meetings: Managers assess activities within their areas of responsibility with standing staff meetings and note items of interest to the Program Team. These issues are presented concisely for information purposes. If the issue presents a problem-solving situation, a separate meeting is scheduled. Meeting minutes are taken and posted.
- Status meetings with supplier personnel: Usually performed at a monthly subcontractor program review, Subcontractor team members provide the program status with sufficient time for Program Management to review prior to the meeting. Program Management reviews the presentation prior to the meeting to ensure status and issues have already been considered for discussion. The briefing material represents the documentation artifact.
- Program Status Reviews: Program reviews are typically performed on a monthly basis. The PM team reviews the presentation material prior to delivery to either the customer or senior DB management. The briefing material represents the documentation artifact.

Technical exchange and engineering status meetings: Technical exchange meetings occur daily, weekly, and monthly. These discussions follow an established agenda, which identifies the reason for the meeting and the intended outcome from the discussion. Minutes are taken and posted.

8.2.6 Timekeeping

DB's DCAA-approved electronic Deltek Costpoint system, a web-based application that lets employees record their time from locations with internet access. The system allows time to be logged to multiple authorized tasks but prevents logging time to unauthorized task numbers. Deltek has a robust audit capability that can create a detailed history of timecard entry and modifications that the Business Management Office and managers can use for audit purposes. Employees and management signify electronic approval when satisfied with the accuracy of the timecard.

Timekeeping is the foundation for distributing labor dollars to individual Task Orders and billing labor hours to the government. Due to the critical nature of this process, timekeeping is governed by a strict set of policies and guidelines. Violation of timecard policy and procedure results in strict disciplinary action and could involve termination.

This procedure, at a minimum, consists of the following:

- Employees are responsible for filling in their timecards daily,
- Employees are prohibited from using any unauthorized Task Order charge numbers,
- Management must review and approve each employee timecard,
- Overtime must be preapproved and coordinated with the CO and customer,
- Employees are responsible for knowing and following the timecard procedure,
- Periodic compliance audits of this procedure are performed by the Business Management Office and members of management.

New employees are trained on timekeeping procedure and use of the Deltek tool during new-hire orientation. In addition, each employee is required to attend a yearly refresher course on the procedures and use of the tool.

8.3 Contract Administration

The Business Manager is DB's official point of contact for proposal negotiations and contract management with the customer. The Business Manager supports the PM by interpreting the contract

requirements and by accomplishing or coordinating the administrative and reporting requirements of the contract. The Business Manager also monitors the contract funding and performance and brings all problematical issues, either existing or potential, to the attention of the PM. Business Manager also includes proposing, negotiating, and implementing modifications or task orders issued under the contract, coordinating with the PM and with the customer regarding delivery issues, supplier/subcontractor issues, contract interpretation, payment issues, requests for equitable adjustments (REAs), claims, disputes, requests for information, the submission of data items required by the contract and closure activity at the end of the contract. After receipt of the contract, the Business Manager carefully reads the Special and General Provisions to identify each clause that requires an administrative action after contract award.

8.3.1 Work Breakdown Structure (WBS)

NASA defined the ITAMS Contract WBS in the ITAMS Request for Proposal and subsequently in the Statement of Work. Reference the ITAMS WBS Dictionary for a detailed description of each element to Level 4. The WBS is tailored as a joint effort given inputs from the stakeholders and the customer when new work is received. The WBS to Level 3 is provided in **Exhibit MP-26**.

- 1.0 GOALS AND OBJECTIVES
- 2.0 WORK BREAKDOWN STRUCTURE
- 3.0 MANAGEMENT AND ADMINISTRATION
  - 3.1 Safety and Health
    - 3.1.1 Facility Management
    - 3.1.2 Environmental Compliance
  - 3.2 Resources Management
    - 3.2.1 Operations, Project, and Function Management
    - 3.2.2 Risk Management
    - 3.2.3 Property Management
    - 3.2.4 Records Management
    - 3.2.5 Procurement
  - 3.3 Configuration Management
  - 3.4 Work Authorization
  - 3.5 Quality Management and Control
    - 3.5.1 Metrics
    - 3.5.2 Training
  - 3.6 Project/System Integration
- 4.0 GENERAL CUSTOMER SUPPORT
  - 4.1 Customer Support Center
  - 4.2 Specialized Support Services
  - 4.3 Customer Service Agent
- 5.0 INFORMATION TECHNOLOGY
  - 5.1 Application Services
    - 5.1.1 Commercial Off-the-Shelf (COTS) Development
    - 5.1.2 eForms Development
    - 5.1.3 Web Development
    - 5.1.4 Custom Applications Development
  - 5.2 Technical Assistance
    - 5.2.1 IRD Administrative Support
    - 5.2.2 Website Registration Process Support
    - 5.2.3 IT Security Policy and Waiver Tracking and Reporting
    - 5.2.4 Capital Planning and Investment Control (CPIC) Support
      - 5.2.4.1 Exhibit 300 Support
      - 5.2.4.2 Summary Investment Business Case (SIBC) Support
      - 5.2.4.3 IT Planning Support
    - 5.2.5 Privacy Support
    - 5.2.6 IT Asset Management Support
    - 5.2.7 Section 508 Support
    - 5.2.8 Data Call Support
    - 5.2.9 Support of the JSC IT Governance Structure
  - 5.3 Enterprise Architecture
    - 5.3.1 Enterprise Architecture Development
    - 5.3.2 EA and IT Portfolio Management Integration
    - 5.3.3 EA Review Support
    - 5.3.4 Response to Agency Actions

Use or disclosure of this ...

- 5.4 IT Systems Engineering, Installation, Maintenance and Operations
  - 5.4.1 Engineering and Installation
    - 5.4.1.1 Planning and Estimating
    - 5.4.1.2 System Development
  - 5.4.2 Data Center Management
  - 5.4.3 Server Administration
  - 5.4.4 Storage Administration
  - 5.4.5 Database Administration
  - 5.4.6 Multimedia Engineering, Installation and Maintenance
    - 5.4.6.1 Multimedia Engineering and Installation
      - 5.4.6.1.1 Planning and Estimating
      - 5.4.6.1.2 Minor Projects
      - 5.4.6.1.3 Major Projects
      - 5.4.6.1.4 Sustaining Engineering
    - 5.4.6.2 Multimedia Maintenance
      - 5.4.6.2.1 Preventive Maintenance
      - 5.4.6.2.2 Repair
- 5.5 System Capacity Planning and Performance Management
  - 5.5.1 Server and Storage Performance Monitoring
  - 5.5.2 Network Performance Monitoring
  - 5.5.3 Application Monitoring
- 5.6 IT Security Services
  - 5.6.1 IT Security Engineering
  - 5.6.2 IT Security Maintenance and Operations
    - 5.6.2.1 Perimeter Firewall Systems
    - 5.6.2.2 Content Monitoring and Filtering Systems
    - 5.6.2.3 Network Intrusion Detection and Prevention Systems
    - 5.6.2.4 Traffic Capturing and Analysis Systems
    - 5.6.2.5 IT Security Support Systems
    - 5.6.2.6 Vulnerability and Discovery Scanning Systems
    - 5.6.2.7 Consolidated Logging Systems
    - 5.6.2.8 Remote Access System
    - 5.6.2.9 Public Key Infrastructure Registration Authority and Roaming Profile Systems
    - 5.6.2.10 Security Information Management Systems
  - 5.6.3 IT Security Administration
    - 5.6.3.1 Consultation
    - 5.6.3.2 Forum/Board Participation
    - 5.6.3.3 Organizational Computer Security Official – Representative (OCSO-R) Duties
  - 5.6.4 Vulnerability Management
    - 5.6.4.1 Vulnerability Assessment
    - 5.6.4.2 Vulnerability Remediation
  - 5.6.5 IT Security Monitoring
  - 5.6.6 IT Security Incident Response
  - 5.6.7 Certification and Accreditation Consulting and Auditing Services
- 5.7 Planning and Integration
- 6.0 MULTIMEDIA OPERATIONS AND SERVICES
- 6.1 Imagery Acquisition
  - 6.1.1 Engineering Testing Support
  - 6.1.2 JSC Institutional and Mission Support
- 6.2 Human Spaceflight Multimedia Operations
  - 6.2.1 Real-Time/Mission Processing, Recording, and Distribution
  - 6.2.2 Post-Mission Processing, Recording, and Distribution
- 6.3 General Photographic Operations and Services
  - 6.3.1 Film Processing and Scanning
  - 6.3.2 Digital Imaging and Products
  - 6.3.3 Flight Film Certification
  - 6.3.4 Photographic Chemical Processing
- 6.4 General Video Operations and Services
  - 6.4.1 Processing, Recording and Distribution
  - 6.4.2 Video Products
- 6.5 Video Teleconferencing, Meeting and Presentation Support, Multimedia Equipment Loan Pool

7.0 INFORMATION MANAGEMENT
- 7.1 Document and Data Management
  - 7.1.1 Electronic Document Management Systems
  - 7.1.2 Content Management System (CMS)
  - 7.1.3 Engineering Drawing Control Center (EDCC)
  - 7.1.4 JSC Quality Documentation
  - 7.1.5 Forms
  - 7.1.6 Document and Data Scanning
- 7.2 Library and Multimedia Repository Management
  - 7.2.1 JSC Library Operations
  - 7.2.2 Satellite Library Operations
  - 7.2.3 Multimedia Repository Management
  - 7.2.4 Taxonomy Discovery and Formulation
- 7.3 Records Management
- 7.4 History Support
- 7.5 Writing, Editing and Graphics
  - 7.5.1 Writing and Editing
  - 7.5.2 Graphics

8.0 EXTERNAL RELATIONS SUPPORT SERVICES
- 8.1 Public Affairs Multimedia Services
  - 8.1.1 Television Production
    - 8.1.1.1 Briefings
    - 8.1.1.2 In-Flight Events
    - 8.1.1.3 Live Interviews and Appearances
  - 8.1.2 Audio Program Control, Recording and Products
  - 8.1.3 Mission Commentary
  - 8.1.4 Video and Multimedia Production
- 8.2 External Relations, Information and Communications
  - 8.2.1 Exhibits Program, Outreach Campaigns and Events
    - 8.2.1.1 Traveling Exhibits
    - 8.2.1.2 Exhibit Production and Refurbishment
    - 8.2.1.3 Artifact and Exhibits Management/Maintenance
  - 8.2.2 Outreach Program
    - 8.2.2.1 Protocol and Guest Operations
    - 8.2.2.2 Information Service Center
    - 8.2.2.3 Speakers Bureau Program
    - 8.2.2.4 Event Planning and Coordination
  - 8.2.3 Communications
    - 8.2.3.1 Internal Communications
    - 8.2.3.2 External Communications
      - 8.2.3.2.1 Strategic Communications Activities
      - 8.2.3.2.2 Public Affairs Internet Content Operations
    - 8.2.3.3 General Media Support Services
      - 8.2.3.3.1 Media Resource Center Operations
      - 8.2.3.3.2 Media Technical Assistance
  - 8.2.4 Education Support Services
    - 8.2.4.1 E-Learning
    - 8.2.4.2 Education Outreach
    - 8.2.4.3 JSC Education Program Support
  - 8.2.2 Management Reporting

Exhibit MP-26. ITAMS Work Breakdown Structure (WBS).

The monthly project review is the process through which the PM keeps track of all ITAMS projects. The PM reviews each project to monitor its cost, budget and schedule performance against the plan; discuss any critical issues or risks and risk mitigation strategies; and address any additional resource requirements. The PM uses this information in preparing the ITAMS program reports for IRD management. If any additional or specialized resources are required, the PM discusses the issue with the NASA customer and leverages the corporate resources of DB and teammates to meet the needs.

DB empowers its group managers to interface with the NASA staff and other JSC contractors in resolving day-to-day and critical issues that may impact the project at hand. They identify any unclear requirements/issues and either get them resolved or bring them to the PM's attention. The project lead

prepares weekly reports to identify issues, concerns or dependencies that require action or decision from the PM or ITAMS customers.

We prepare and maintain project documents as required by the ITAMS program and JSC policies. The project lead ensures that appropriate reviews are conducted and that all issues are resolved. They identify and collect the necessary metrics and lead the effort in the lessons learned and root cause analyses. They also recommend process refinement, new features or tools to improve the project performance.

Benefits: In effect, DB has a management approach that benefits IRD/ERO customers over the life of the project by allowing us to:

- Resolve problems in a timely fashion,
- Provide comprehensive support in the assigned areas of responsibility,
- Identify and mitigate future risks,
- Communicate with IRD/ERO customers and team members effectively,
- Deliver high-quality products and services in a consistent fashion, and
- Manage schedule and budget in an effective manner.

The ITAMS TO Manager designates a TOL for each task received. The TOL is the point-of-contact to provide the management support necessary to ensure staff availability, competence, reliability, performance, and reporting of the work force required to support the TO. In addition, the TOL is responsible for integrating all TO-specific activities and managing the project in conformance with the role of the IRD customer. The TOL performs these functions by regularly coordinating with members of ITAMS upper management, appropriate cross-functional ITAMS managers, the ITAMS TO Manager, and other NASA personnel as may be necessary. The TOL integrates the results of these coordination efforts into a staffing and responsibility allocation plan to perform the necessary work defined in the TO. The TOL reviews monthly status reports on the technical, cost, schedule and operational performance of each TO with the designated TO Manager. The format and structure of these reviews is in accordance with contract-specified cost reporting vehicles and consistent with existing processes for communicating technical and operational details to the ITAMS PM.

The TOL provides reports of anomaly detection, isolation and resolution. Planning, status and definitive reports are provided for all special operations. Established processes for capturing and conveying this information will continue to be employed.

The TOL provides an annual performance review of mission operations and mission support services based on current requirements and actual services used, and presents to the TO Manager an operations concept for the next year considering the TO mission's current status, expected budget, and risk tolerance.

As appropriate, the TOL prepares special reports, including those associated with end-of-life activities, in response to specific requirements in each TO. All reports are made available in both soft- and hardcopy and are delivered according to customer requirements.

Exhibit MP-27 shows the plans, policies, procedures, and techniques we employ to efficiently manage the proposed work.

Policies, Procedures, and Techniques	Description	Benefit
Bi-Weekly ITAMS COTR Meeting	Our management team meets bi-weekly with the ITAMS COTR and any TMRs that desire to attend for review include updates on task activities, funding status, performance metrics reports, planned activities for the next reporting period, any issues or concerns that would impact completion of those planned activities, the status of risks and risk management activities	These meetings contribute to open communications, timely issue resolution, and no surprises!

Policies, Procedures, and Techniques	Description	Benefit
Associate Contractor Agreements (ACA's) Forum	Monthly meeting of key decision makers and implementers who can respond quickly and effectively to organization-wide changes	The ACA Forum is a way to more effectively communicate with contractor team, develop a shared body of knowledge, and focus actions implementing significant ITAMS decisions
Self Evaluation Presentations	At the end of each 6-month evaluation period, our management team presents a self-evaluation for all ITAMS tasks to the COTR, the CO and to TMRs for their tasks	Advocates accountability and responsiveness to customers
Effective Resource Assignment and Cross Utilization Using TOMS	Our management team supplements full-time employees with part-time employees and consultants. Using TOMS to assign resources precisely where and when they are needed eliminates the underutilization of full-time employees and the need for a full-time employee when only a few hours of a specific labor category are required	Improves timeliness of responses to customer's requirements. Minimizes ITAMS management costs. DB will build on this cost-saving innovation on ITAMS
Management by Walking Around (MBWA)	Mr. White and his management team practice MBWA. Rather than "behind the desk" all day, they will be using MBWA and visiting customers and employees, staying current with the real ITAMS pulse	We identify and address problems before they impact operations and the mission.
Monthly Operational Reviews (MOR).	At the MOR, DB executives review corporate activities and their impact on general ITAMS operations. DB executives will review the status of all requests for corporate resources to ensure corporate support from all team members is provided to ITAMS in a timely manner, and that the support is effective	Ensures corporate support from all team members is provided to ITAMS in a timely manner, and that the support is effective in the customer's and subcontractor's perspective
Management Reports	533 M/Q reports are delivered monthly and quarterly, within 10 and 15 work days of the accounting period close. They summarize period actual and planned costs	Ensures efficient, effective written communications and enhances control

Exhibit MP-27. Policies, Procedures, and Techniques for Efficiently Managing Proposed Work.

8.3.2 Reserved

8.3.3 Subcontractor Management

The PM directs and evaluates subcontractor performance. Subcontractor's work assignments are directed by project plans that establish the technical requirement, approach, budget, schedule, special instructions and success criteria. Subcontractor performance is measured against project requirements.

8.3.4 Staffing

The PM is responsible for staffing and directs the HR lead to recruit, hire, assign and train management, technical and administrative staff. DB's corporate Human Resource Department furnishes personnel and benefits administration support.

8.3.5 Task Coordination and Execution

Project plans define the requirement, approach, budget, schedule, deliverables and special instructions for implementing the task order(s) requirements. Budget is allocated and cost collected by WBS and

reported by SOW element. Project plans contain safety, quality and configuration management requirements.

8.3.6 Configuration Management

The TOL maintains and executes a formal Configuration Management (CM) Plan for operational products in accordance with TO requirements. This CM plan identifies CM responsibilities and primary and backup personnel to perform these, establish a schedule or threshold requirements for performing these responsibilities, and identify reports or other verification media to ensure adequate rigor in CM is being maintained.

In cases where the TO establishes such a requirement, the TOL will operate and maintain a configuration management system (CMS) to manage change requests for hardware and software as well as technical and procedural documentation necessary for the operation and maintenance of the operations systems. Qualified and trained personnel are assigned by the TOL to perform this function according to established processes for operation and maintenance of the CMS.

In all cases, the TOL accurately tracks changes to operations requirements, products, systems, and software configuration using established processes. The TOL tracks and maintain changes to interfaces with the network and other institutional facilities as changes occur. The TO Manager or his/her designee approves all configuration changes before the changes are implemented.

Configuration Management and Software Configuration Management are combined and fully addressed in the ITAMS Configuration Management Plan (CMP). The ITAMS CM approach is based on mature and proven processes. In addition to the CMP, several project instructions are used to ensure standardization and compliance with well-established practices.

8.3.7 Information Technology Security

The TOL is responsible for Information Technology (IT) security for all systems operated under the TO for NASA or used to connect to a NASA network, and makes arrangements and coordinate security checks and scanning of operational systems as required. The ITAMS Contractor applies security standards as defined by NPG 2810.1 for all systems. In addition, the TOL complies with all Federal Rules and Regulations and Agency directives. The TOL employs existing processes for these tasks and utilizes NIST special publications for overall program guidance and best practices.

8.3.8 Operations Library

In cases where the TO establishes such a requirement, the TOL maintains a library of current operating documents and reports. Whenever practicable, this library is maintained electronically and be accessible through the IMS. This library serves as a:

- Repository of the operations history,
- Reference library for operations training materials,
- On-console reference library for operations activities,
- Repository of manufacturer provided documentation or other relevant hardware software documentation generated by external parties, and
- Repository of operations procedures, activity plans, and authorization meeting presentations.

Whether or not a formal library is maintained as described above, each TOL maintains current procedures that address routine and contingency operations, as well as those activities that are performed on an as-needed basis. These procedures are readily accessible to all personnel in ITAMS management and the TOL ensures they are reviewed annually and updated as necessary to reflect current conditions and constraints. All such procedures, as well as escalation procedures, are in approved documentation, Standard Operating Procedures, or similar document. Redline updates to any procedure is made in accordance with established document and data control processes, and notification of any redline update is distributed to the operations personnel using a memo or similar process. Each TOL maintains a master list identifying the current versions of all such documents.

8.3.9 Work Authorization

The PM and DPM authorize work to be performed on ITAMS contract via Task Orders (TO) and the

TOMS (Task Order Management System) within the IMS.

The start work authorization for a new TO is a letter signed by the PM to the assigned budget allocation. For modifications or changes to existing baselined tasks, a Budget Change Request (BCR) is used to document and approve distribution of budget within the baselined plan. The work is verified complete based on the type of activity baselined. Level of effort work is deemed complete at the end of the existing period of performance of the work. Discrete activities are deemed complete based on the type of performance achieved and reported by the Control Account Manager. Work authorizations are closed with a letter to the customer indicating completion of the work and status of all control accounts and final deliverables.

The PM directs the activities of the administrative and functional staff. ITAMS functional staff PEO (Safety and Health, Quality, & Risk) and CM specialists have authority to implement policy and procedures in their respective disciplines. The program manager coordinates contract administration actions with the Contracting Manager (CO).

8.3.10 Cost Management

Cost management includes the processes needed to ensure ITAMS is completed within the approved budget. This includes ensuring a realistic estimate of the costs to perform the required tasks and developing an accurate time-phased budget baseline to perform the ITAMS tasks.

8.3.11 Cost Estimates and Budget Allocation

Developing cost estimates is an on-going activity on ITAMS due to the nature of the Task Order contract. There are two types of estimates developed on ITAMS: a detailed priced cost estimate and a Rough Order of Magnitude (ROM) estimate. Detailed project instructions on Developing proposals, Developing Basis of Estimates, Developing ROMs, and Developing Software Estimates provide specific direction for performing each of these activities. When a Task Plan Request is received from NASA or DB decides to submit a System Enhancement Proposal or other unsolicited proposal, the PM chooses a Proposal Manager or ROM Coordinator to develop the proposal or ROM and resulting estimates. ITAMS estimates address all the elements of cost and are documented in Basis of Estimates (Proposals) or Impact Analysis Reports (ROMs). Estimates are reviewed regularly to ensure productivity factors, lines of code estimates, and labor grades were appropriately chosen for authorized work. As deltas to original estimates are determined, they are incorporated for future estimating and existing budget baseline adjustments. Estimates are normally developed by the individuals with the technical expertise to understand the type and scope of the work. When the estimators have completed their basis of estimate, the pricing analysts assist them in translating the required labor hours, material, and other direct costs into cost and price.

8.3.12 Cost Controls

Once the proposal has been accepted and authorized as a new TO, DB proceeds with developing a time-phased budget baseline. The original basis of estimates (BOEs) is used to allocate budget to the functional accounts performing the work. Each of the accounts has a Control Account Manager (CAM), who is responsible for executing the prescribed work for that account on budget and within schedule. The CAM works with the Program Control Analyst (PCA) in setting up the budget by month. This involves identifying the resources to perform the work and the material to be purchased. When the budget has been allocated to the full period of performance for the scope identified in the task order, the baseline plan is peer reviewed and approved by the PM and the customer in an Integrated Baseline Review. Smaller tasks and modifications to tasks are reviewed and approved in the standing Planning Meeting. The Program Office provides charge numbers to the resources to start collecting costs against the baselined accounts. On a monthly basis, the status of each account is reported to the PM and Customer. The baseline is maintained through strict control of the budget using the Budget Change Request (BCR). This document identifies the funds to be moved (to and from accounts), the period the funds will be moved, and the necessary approvals from the CAM, PCA, Task Leader, and Program Manager. Significant variances to the baseline plan are reviewed monthly and reported to Program Management and the customer. Performance metrics are reported in monthly NASA 533 Cost Reports. Cost performance is presented to the customer in monthly Program Management Reviews. Several automated tools are used to assist with cost control and reporting, including Deltek Costpoint and Task Order

Management System (TOMS).

8.3.13 Performance Management

Metrics are a key measurement of success on ITAMS. Technical, cost, schedule, and business metrics are collected on a monthly basis and reported to the customer. The following sections include the metric strategy used on ITAMS, a short synopsis of the ITAMS Work Breakdown Structure (WBS) as directed in the SOW, and cost and schedule management activities.

It is DB's policy that each ITAMS company has an operative performance management system. The purpose of the performance management system is to ensure that:

- The work performed by employees accomplishes the work of the customer,
- Employees have a clear understanding of the quality and quantity of work expected from them,
- Employees receive ongoing information about how effectively they are performing relative to expectations,
- Awards and salary increases based on employee performance are distributed accordingly,
- Opportunities for employee development are identified, and
- Employee performance that does not meet expectations is addressed.
- An operative performance management system shall consist of:
- A process for communicating employee performance expectations, maintaining ongoing performance dialogue, and conducting annual performance appraisals,
- A procedure for addressing employee performance that falls below expectations,
- A procedure for encouraging and facilitating employee development,
- Training in managing performance and administering the system, and
- A procedure for resolving performance pay disputes.

8.3.14 ITAMS Metrics Strategy

DB uses performance metrics as a means of determining whether the ITAMS is meeting its goals and requirements. DB anticipates that these metrics, as well as other information, will be used by the customer in measuring program performance. There are five categories of metrics collected for ITAMS: Technical, Schedule, Cost, Business, and Customer Satisfaction. All metrics are collected monthly.

8.3.15 Technical Metrics

DB develops metrics in response to specific ITAMS goals determined in conjunction with the customer. While the goals are expected to be constant across ITAMS, it is possible that the metrics may be refined over time, either by improving the formula for measurement, or by changing the thresholds for performance. For instance, DB's ability to respond to priority nonconformance reports (NCRs) is based on the complexity of the NCR, and it has been our experience that enhancements are more complex to resolve than problems with existing functionality. As the number of enhancements on the priority list increases, DB may be less able to quickly resolve priority list issues. For instance, a DAAC may decide to perform less distribution because it is engaged in a specific reprocessing campaign. Operations specific issues must be taken into consideration in the evaluation of these metrics.

8.3.16 Change Management

The PM is the focal point of DB's escalation process. Our escalation process is designed to furnish management insight and appropriate resources efficiently and effectively in order to resolve critical operational problems. Whenever a critical operational problem is encountered, the project lead notifies the PM—who, in turn, notifies the NASA customer and work with the appropriate project lead to develop a resolution plan. This is another situation where the PM uses all the available resources, including DB and teammates' corporate expertise. The PM chairs the ITAMS CRB that establishes policies, procedures and guidelines for the escalation process.

8.3.17 Program Data Repositories and Artifacts

Formal program documentation is controlled. Other program artifacts such as contract correspondence,

reports, meeting minutes, planning artifacts, presentations, memos, ad hoc documents describing the program, lessons learned, reviews with upper management, results of measurement activities, performance reports, risk information, and subcontract information are filed as softcopy on a common server as well as in individual private folders. Program personnel are granted access to information based on their need to know the information. Groups have been established to allow read only, read/write, or no access to common folder information.

8.3.18 Schedule Management

An integrated master schedule is maintained for ITAMS that depicts high-level milestones for each of the Tasks. This integrated master schedule is facilitated by the use of MS Project Server.

8.3.19 Safety & Quality

A key feature of our organizational approach is the establishment of a Performance Excellence Office (PEO). Team DB has carefully analyzed JSC's incentive award requirements for excellent performance and we take a proactive approach to achieving excellent performance with the establishment of our PEO. The PEO manager who serves as our safety representative will report directly to our Program Manager (PM), Jeff White, and is responsible for developing an ongoing, systematic set of processes and techniques for measuring, monitoring, and evaluating key processes, programs and outcomes of performance in both technical and management areas.

We use the Quality Management System (QMS) from our ISO program as a major performance information source for our PEO. Our QMS (described in our Quality Plan) provides the PEO with a proven, mature, integrated tool set for the early detection of performance issues. QMS performance data will include:

- Audit results
- Corrective actions
- Preventative actions
- Customer complaints
- QMS training
- Customer satisfaction survey metrics

An additional source of information used by the PEO is our structured and comprehensive customer satisfaction survey process. We will use these surveys to foster communication with our customers regarding our contract performance. Our customer relationships are exceedingly important and we diligently work to build a foundation of trust that fosters effective communication. Honest and open communication strengthens our partnership with our customers and our understanding of their needs, thus helping to ensure customer success. We meet with the COTR and our principal ITAMS organizational customers on a regular basis to discuss topics such as cost, technical performance, safety and our timely and accurate communication as expected by our customers. This information allows our Performance Excellence Team, led by our PM, to select opportunities for improvement and implement performance improvement initiatives.

We are confident the PEO and formal performance excellence program we propose will enhance the Government's insight into all aspects of contract performance and greatly reduce contract performance risks by providing early identification and correction of any performance issues.

Our PM and PEM and group managers attend the JSC Contractors Safety Council meetings. Group managers conduct and tracks Job Hazard Analyses on every position, then follow up with necessary precautions [e.g., training, Personal Protection Equipment (PPE)]. We conduct periodic unannounced safety walkthroughs of all facilities used by ITAMS staff. Safety is on the agenda of every ITAMS staff meeting. We incentivize our staff to point out safety hazards, and to put safety first. Our safety policy and commitment are detailed in our Safety & Health Plan.

8.3.20 ITAMS Management System (IMS)

DB's IMS integrates DB's Task Order Management System (TOMS) and digital dashboard features to provide comprehensive access to ITAMS information, products & services. Team DB integrates proven components to manage the ITAMS program from contract start through close-out. The IMS integrates TOMS and digital dashboard features to provide comprehensive access to ITAMS information, products and services. The features and benefits of IMS are shown in **Exhibit MP-28**.

First, the IMS serves as web portal providing a single point of entry for all IRD/ERO customers, IRD/ERO management and technical staff, ITAMS Team DB employees, and Team DB management to access general contract information, TOMS, selected websites, MS SharePoint, MS Project Server, and data repositories. The portal acts as an electronic dashboard for these constituents, building on the concepts of the proven TOMS homepage to provide customized access for each user group. Using a web portal provides an efficient and familiar approach for current JSC personnel, similar to the current homepage used on one predecessor contract, and providing "tier zero" support to IRD customers.

Second, TOMS has been used for over eight years on various NASA and other Federal agency contracts to enter task order requests, prepare task order proposals, allow for interactive modification and approval, and record and report actual results vs. planned results. TOMS provides more features than the JSC-developed JTOPS system, which we will not use.

IMS Feature	Tangible Benefits to JSC
Seamless interface into TOMS	• Eliminates non-value-added processes, improving performance • Reduces total life-cycle costs associated with administration • Improves visibility into all phases of Task Order management processes
Web-based 533s (current and historical data)	• Eliminates paper copies (unless requested), electronic archive • Facilitates timely decision-making • Allows more timely contract and task financial information sharing
Cost trend and variance performance reports—contract and task	• Makes cost performance—planned vs. actuals, labor and ODCs—status available in a timely manner • Allows more effective cost-performance surveillance
Resource Breakdown Structure (categorizing all personnel by discipline & level)	• Facilitates better personnel utilization and accommodates cross-utilization • Forecasts accurate training needs through current skills assessment
Integrates MS SharePoint Server and MS Project Server	• Enables the ability to develop dashboards for summary status and metrics on elements such as contract performance and project performance • Centralized location for working DRDs and final submitted DRDs • Simplifies sharing and collaboration of ITAMS information and activities for IRD/ERO and ITAMS staff
Series of training materials used to provide "hands on" experience	• More effective training of ITAMS staff • Reduced training costs
"TurboTax" approach to facilitate task estimating	• Helps ensure all task requirements met • Greatly simplifies process of entering required information during task planning process by embedding intelligence into the tool and process (e.g., staffing, ODCs, etc.) • More efficient; saves ITAMS management team time that in turn can be reinvested in improving overall operations
Voice of the Customer (VOC) access to provide feedback	• Makes it easy for customers to provide feedback • Gives status of all VOC requests and responses on-line 24/7

IMS Feature	Tangible Benefits to JSC
Automated e-mail alerts and notifications	• Flashes icon upon log-in when actions required—no inbox "dead time" • Sends notification/alert to alternate staff during absences—no delays or lost work time

Exhibit MP-28. IMS Features and Benefits.

8.4 Logistics and Property Management

Team DB ITAMS Logistics and Property Management activities and systems are covered in the DB Government Property Management Plan. Refer to this separate plan for details.

8.5 Documentation Management

The Documentation Management activities for the ITAMS Program are described in the Configuration Management Plan. In addition, the following guidelines have been developed for ITAMS.

- Data Identification Numbering establishes and defines procedures by which ITAMS documentation and data are assigned a unique identifier,
- Document Generation, Review, Release, and Maintenance establishes and defines operating procedures for production, review, approval, release and maintenance of deliverable documents,
- CDRL Document Format establishes the format for all ITAMS project CDRL and other deliverable documents,
- Document Delivery and Dissemination describes the process for delivering and distributing ITAMS documentation, and
- Documentation Archiving and Storage establishes the process for archiving and storing ITAMS-related documentation and reference material to ensure items remain secure and retrievable.

The document management process allows ITAMS organizations to exert greater control over the production, storage, and distribution of documents. This yields greater efficiencies in the ability to reuse information, reduce duplication of effort, enhance organizational awareness, control a document through a workflow process, reduce document cycle times, and collaborate among geographically dispersed groups and individuals. See Section 9.3, "Documentation and Data Systems" for more detail about the documentation management process.

8.6 Personal Identity Verification

8.6.1 Identity Verification and Credential Issuance Process

Exhibit MP-31 graphically displays the following procedure for the issuance of a PIV credential. Our PIV Card Issuance Procedures are in accordance with FAR clause 52.204-9, Personal Identity Verification of Contractor Personnel.

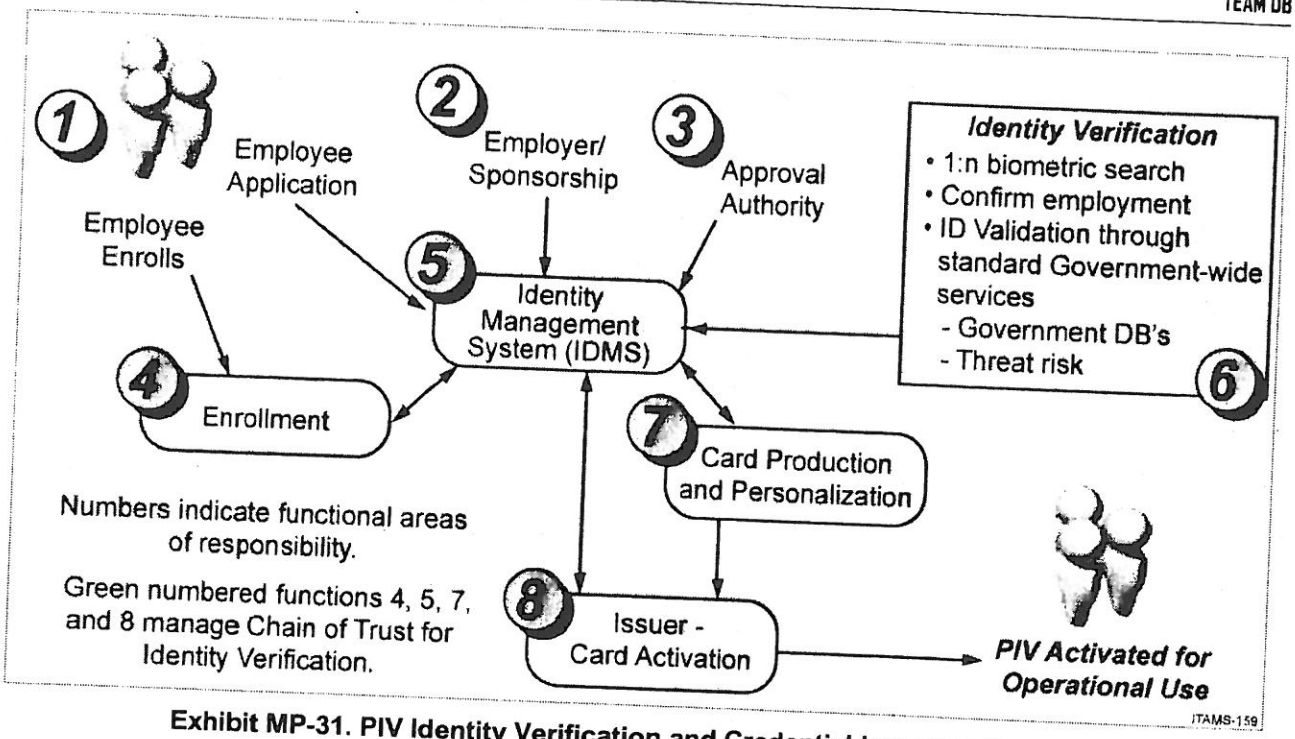

Exhibit MP-31. PIV Identity Verification and Credential Issuance Process.

The following steps describe the procedures for the NASA Personal Identity Verification Card Issuance (PCI) of a PIV credential:

Step 1:

The PM submits a formal letter that provides a list of contract employees (applicant) names requesting access to the NASA Contracting Manager's Technical Representative (COTR). In the case of a foreign national applicant, approval through the NASA Foreign National Management System (NFNMS) must be obtained for the visit or assignment before any processing for a PIV credential can take place. Further, if the foreign national is not under a contract where a COTR has been officially designated, the foreign national will provide the information directly to their visit/assignment host, and the host sponsor will fulfill the duties of the COTR mentioned herein.

In each case, the letter shall provide notification of the contract or foreign national employee's (hereafter the "applicant") full name (first, middle and last), social security number (SSN) or NASA Foreign National Management System Visitor Number if the foreign national does not have a SSN, and date of birth. If the contract employee has a current satisfactorily completed National Agency Check with Inquiries (NACI) or an equivalent or higher degree of background investigation, the letter shall indicate the type of investigation, the agency completing the investigation, and date the investigation was completed. Also, the letter must specify the risk/sensitivity level associated with the position in which each applicant will be working (NPR 1600.1, §4.5 is germane) Further, the letter shall also acknowledge that contract employees may be denied access to NASA information or information systems based on an unsatisfactory background investigation/adjudication. After reviewing the letter for completeness and concurring with the risk/sensitivity levels, the COTR/host must forward the letter to the Center Chief of Security (CCS). The CCS shall review the OPM databases (e.g., DCII, PIP, et al.), and take appropriate steps to validate the applicant's investigation status. Requirements for a NACI or other investigation shall be initiated only if necessary.

Applicants who do not currently possess the required level of background investigation shall be directed to the e-QIP web site to complete the necessary background investigation forms online.

The CCS shall provide to the COTR/host information and instructions on how to access the e-QIP for each contract or foreign national employee requiring access.

Step 2:

Upon acceptance of the letter/background information, the applicant is advised that in order to complete the investigative process, he or she must appear in-person before the authorized PIV registrar and submit two forms of identity source documents in original form. The identity source documents must come from the list of acceptable documents included in Form I-9, Employment Eligibility Verification, one which must be a Federal1 or State issued picture identification. Fingerprints will be taken at this time. The applicant must appear no later than the entry on duty date.

When the applicant appears, the registrar electronically scans the submitted documents; any document that appears invalid is rejected by the registrar. The registrar captures electronically both a facial image and fingerprints of the applicant. The information submitted by the applicant is used to create or update the applicant identity record in the Identity Management System (IDMS).

Step 3:

Upon the applicant's completion of the investigative document, the CCS reviews the information, and resolves discrepancies with the applicant as necessary. When the applicant has appeared in person and completed fingerprints, the package is electronically submitted to initiate the NACI. The CCS includes a request for feedback on the NAC portion of the NACI at the time the request is submitted.

1 A non-PIV government identification badge, including the NASA Photo Identification Badge, MAY NOT BE USED for the original issuance of a PIV vetted credential

Step 4:

Prior to authorizing physical access of a contractor employee to a federally-controlled facility or access to a Federal information system, the CCS ensures that a check has been performed with the National Crime Information Center (NCIC) and Interstate Identification Index. In the case of a foreign national, a national check of the Bureau of Immigration and Customs Enforcement (BICE) database is performed for each applicant. If this process yields negative information, the CCS immediately notifies the COTR/host of the determination regarding access made by the CCS.

Step 5:

Upon receipt of the completed NAC, the CCS updates IDMS from the NAC portion of the NACI and indicate the result of the suitability determination. If an unsatisfactory suitability determination is rendered, the COTR advises the contractor that the employee is being denied physical access to all federally-controlled facilities and Federal information systems. Based on a favorable NAC and NCIC/III or BICE check, the CCS authorizes the issuance of a PIV federal credential in the Physical Access Control System (PACS) database. The CCS, based on information provided by the COTR/host, determines what physical access the applicant should be granted once the PIV issues the credential.

Step 6:

Using the information provided by the applicant during his or her in-person appearance, the PIV card production facility creates and instantiates the approved PIV card for the applicant with an activation date commensurate with the applicant's start date.

Step 7:

The applicant proceeds to the credential issuance facility to begin processing for receipt of his/her federal credential.

The applicant provides to the credential issuing operator proof of identity with documentation that meets the requirements of FIPS 201 (DHS Employment Eligibility Verification (Form I-9) documents. These documents must be the same documents submitted for registration. The credential issuing operator will verify that the facial image, and optionally reference finger print, matches the enrollment data used to produce the card. Upon verification of identity, the operator will locate the employee's record in the PACS database, and modify the record to indicate the PIV card has been issued. The applicant selects a PIN for use with his or her new PIV card. Although root data is inaccessible to the operator, certain fields (hair color, eye color, et al.) may be modified to more accurately record the employee's information.

Step 8:

The applicant proceeds to a kiosk or other workstation to complete activation of the PIV card using the initial PIN entered at card issuance.

8.7 Acquisition Management

With regards to acquisition and purchasing control guidelines, DB offers a clearly defined, paperless procurement process to ensure timely and accurate delivery of products and service. Our process is DCAA-compliant with FAR procurement regulations. Our control guidelines and requisition criteria are shown in **Exhibit MP-32** and **Exhibit MP-33**, respectively.

A formal Delegation of Authority (DOA) allows approval of specified dollar amounts to a specified level of management. Our DOA eliminates delays in the approval cycle and place authority at the right level in the organization. Our process uses PKI digital signatures.

We pursue government approval of our procurement system upon contract inception. Our goal is to be government-approved one year after contract phase-in. While in the approval process, we seek consent on all procurements over $2,500. In the interim, we request an approval letter from the CO to allow for procurement of general consumables up to a certain dollar threshold without the complete consent package. We request consent during the Task Order process.

Our roles and responsibilities for procurement are clearly defined. We use the Deltek procurement module to simplify the procurement process and track purchase using prequalified vendors/sources for fast turnarounds. Our procurement policies and procedures follow specific rules outlined in FAR Part 45, purchasing/acquisition of government property. We train all employees directly involved in the procurement process and instruct them on how to fill out the on-line purchase requisitions, the course of the approval process flow, and the rules governing procurement integrity.

Acquisition/Purchasing

Procurement Status	Control Guidelines
	Vendors
Acceptable	For major/critical equipment items, factory acceptance test or inspection conducted and documented as deemed necessary by project team Periodic expediting calls (Reference 3.18)
	Subcontractors
Acceptable	Subcontractor attendance required at weekly coordination meetings Subcontractor representative with authority to commit company resources identified and present at all meetings and inspections

Exhibit MP-32. Guidelines for Controlling Major Vendors and Subcontractors.

Reviewer	Criteria
	Project Equipment and Material Procurements
	All purchase requisition
Project Manager Note: If the Project Manager is unavailable, a Manager of the company can approve the requisition	Purchase requisitions where one of the following conditions exists: Procurement exceeds $50.000 in value Procurement not included in project budget Procurement value exceeds the following allowable deviation: Purchase Order Cost — Allowable Deviation 0 - $5,000 — 10% $5,001 - $20,000 — 8% $20,001 - $50,000 — 3%
	Non-Project Equipment and Material Procurements
Group Manager	Purchase requisitions up to $1000
Group Manager or Designee	Purchase requisitions that equal or exceed $1000
	Procurement of Subcontractor Services
Project Manager	All purchase requisitions for subcontractor services
Manager of the Company	All purchase requisitions for subcontractor services

Exhibit MP-33. Purchase Requisition Responsibilities.

Acquisition Management

Our Business Manager is responsible for acquisition of vendor products and, as such, is responsible for both delivery and performance requirements. The acquisition management function works with DB Procurement in administering acquisitions to ensure conformance to both DB and NASA terms and conditions. Performance of vendors and suppliers is monitored to ensure procurement of products is proceeding as planned, and schedules are being met. Monitoring focuses on identifying problem areas early, to promptly escalate them with vendors and suppliers. Acquisition management also ensures timely corrective actions are implemented when necessary. Finally, it serves as the primary point of contact within the contract for vendor problem support.

Procurement staff at DB Corporate is responsible for negotiating licensing agreements and ordering vendor products. They generate and execute Purchase Orders, secure vendor and supplier commitments and represent DB in contractual matters related to each procurement. Procurement staff also effects corrective actions when appropriate through contractual clauses and/or management channels.

A safety audit/review is conducted on all vendor hardware products in accordance with NASA and DB safety standards. The design, operation and physical characteristics are reviewed for potential safety hazards (both operational and maintenance). When problems are found, appropriate corrective actions are recommended to the vendor for implementation before accepting the product.

Our source selection and vendor procurement/control processes assure NASA JSC of high quality products for ITAMS at low risk from vendors. In the unlikely event a problem cannot be resolved with a supplier or vendor, the Acquisition Management Function and Procurement staff use information gathered during source selection to identify alternate supply channels or, if necessary, products from other vendors. If a change to the product baseline is necessary, a technical assessment is accomplished by the CM CCB in consultation with NASA, to ensure ITAMS requirements remain satisfied. Only after CCB approval of the product change does acquisition proceed.

8.8 Performance Excellence Processes

The following sections were not specifically requested by DRD 1, but, are needed to complete a robust management approach. These processes are assigned to the Performance Excellence Organization.

8.8.1 Innovation

The dynamic nature of the ITAMS service environment providing critical support to many priority elements of the mission of the Johnson Space Center will not be successful if static and inflexible service solutions are not challenged and changed. Changes are required that range from significant innovations to effective incremental process improvement related to JSC mission needs and available technology. Team DB has established a management approach to systematically assess and implement innovative approaches to continually modify and adapt the service processes to meet the ever changing needs of IRD and the Office of External Relations and the greater JSC community that they support.

The focus for this process is at the Program Manager's level due to its importance to meeting the goals and objectives of the ITAMS service commitments. We use employees at all levels to lead tasks which enhances focus on individual tasks and helps develop project management skills at all levels. We have established an Innovation and Change Management Officer, Ms. Beth O'Connor, who reporting directly to the Performance Excellence Office Manager, Ms. Julia Babineaux, on the Program Manager's Staff who is knowledgeable in the tools of process changes and provides leadership for the change management process.

The PEO has primary responsibility for the maintenance of process baselines and the effectiveness of the ITAMS management systems (QMS, CMMI, Risk Management, & Safety & Health, ITILv3). Innovation and change management decisions are evaluated and implemented in collaboration with the Contracting Officer, COTR, and applicable JSC WBS managers. **Exhibit MP-34** outlines the basic process flow.

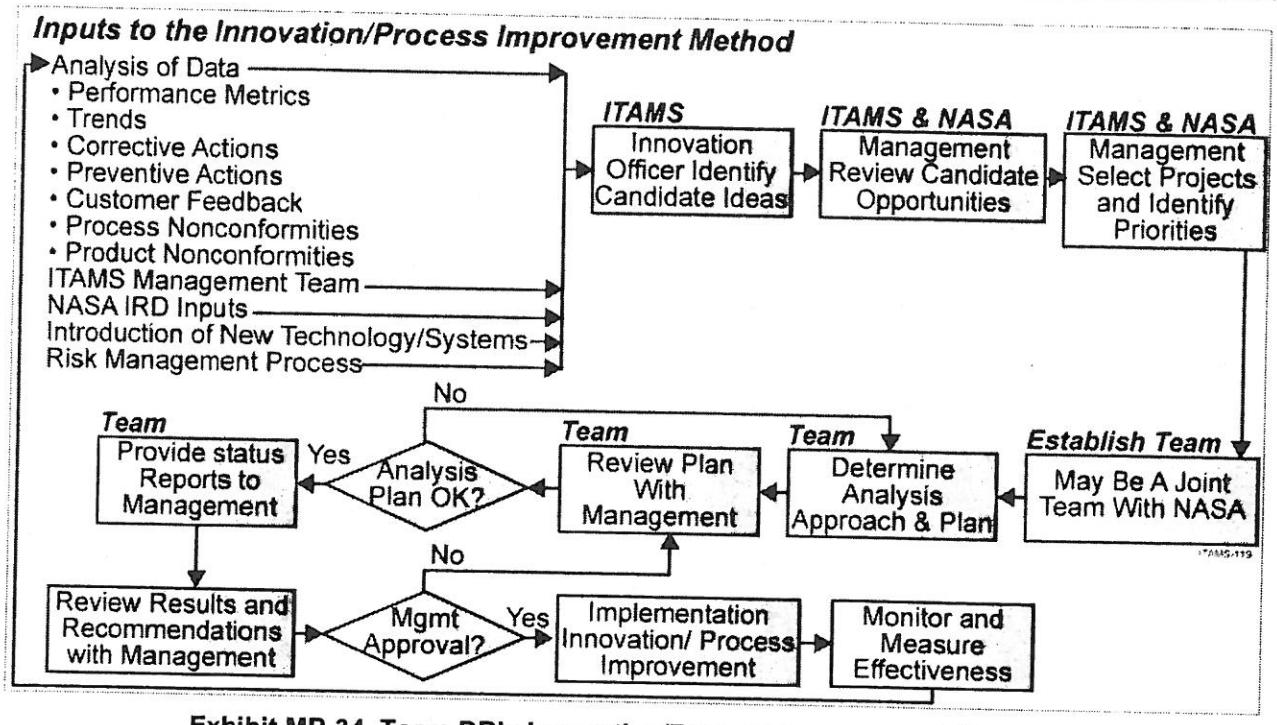

Exhibit MP-34. Team DB's Innovation/Process Improvement Methods.

Innovation and change management is accomplished in a team environment inclusive of Team DB personnel directly involved in an existing process or a newly proposed process, NASA personnel as appropriate, and associate contractors as appropriate. The team is facilitated and led by the ICMO and utilizes analysis methods dictated by the objectives of each improvement project. The ITAMS contract daily operations and this process benefit from the large number of measurements and related data that are available to evaluate current process performance. This allows for making a rational business case to justify the initiation of an improvement project based on expected benefits. NASA and Team DB management conduct monthly progress reviews to assure that innovation and improvement projects stay on track and are focused on meeting planned objectives.

The tools typically employed in the change projects fall under the domain of lean six-sigma. Lean process methods focus on efficiency improvements and relate more directly to innovative type changes. Six-sigma methods are used for reductions in process variation in order to improve the predictability of the process outcome. Both the lean process and six-sigma tool kits come with a variety of disciplined methods utilized to evaluate, analyze, and improve processes. Team DB utilizes several team members that are certified at both the green belt and black belt levels in these methods to support improvement team projects. Team DB has a reach back capability to the team's corporate resources for all of the ITAMS management systems listed above, including qualified personnel with experience in process improvement processes.

Team DB's approach to defining processes begins with the AS9100 QMS which provides process definition, control, maintenance, and verification. CMMI Level 3 adds a layer of process discipline to the QMS defined processes to assure they are rigorously defined and managed proactively using an understanding of the interrelationships of the process activities and detailed measures of the process and its work products. It also means that Team DB's way of doing business at this level is ingrained throughout the team, routinely followed, and is a part of Team DB's culture. Team DB's own implementation of CMMI Level 3 will result in internal process improvements, as well as to facilitate achievement of JSC CMMI Level 3 objectives as required by the ITAMS SOW.

8.8.2 Schedule Management

Schedule management is the project management process which applies the technical processes to each product to be developed to provide a time phasing of the process. Generally, three levels of schedule are produced: master, functional and detailed levels. For each level the duration of each process step is estimated and the process steps are networked to address process step interdependencies. Once the

network is established, analysis is performed to determine the critical path through the schedule and areas of flexibility within the schedule. The schedule is loaded with critical resources to determine feasibility of the schedule and to trade some flexibility for smooth application of resources. The resulting schedule is then levied upon the project as a baseline and documented and maintained in the Project Plan. Changes to scope are assessed for schedule impact. Approved changes modify the schedule baseline and the new schedule is then baselined for use by the project.

8.8.3 Risk Management

Risk management is the project management process that emphasizes early risk identification, impact assessment, mitigation, planning, control, and close scrutiny of progress to ensure successful solution implementation. Continuous Risk Management (CRM) is defined as a continuous process utilized by the ITAMS management team to identify potential risks and eliminate or mitigate them before they have an adverse effect. The ITAMS PM has the final authority for making ITAMS decisions that are informed by a disciplined risk assessment and management process implemented consistently with the requirements of NPR 8000.4. The ITAMS PM collaborates with NASA IRD and AD managers on a regular basis to establish priorities and targets for risk mitigation and reduction. The PE Office Manager is responsible for implementation of the CRM process and assuring that the ITAMS management team is fully integrated into all aspects of CRM. The risk management procedures are documented, maintained, controlled, and verified as a part of the AS9100 QMS. The Team DB management structure for the risk management process is shown on **Exhibit MP-35**. The risk management process is established to promote informed decision-making regarding IRD and client projects involving Safety and Health, Technical Performance, Cost, and Schedule issues and is fully integrated with the AS9100 QMS, the safety and health processes, and the CMMI program.

Note: Team DB addresses risk management from an IT security perspective by following the Risk Management Framework, NIST SP800-39. With IRD support, ITAMS will work to implement the guidance provided in NIST SP800-37, Guide for Applying the Risk Management Framework to Federal Information Systems: A Security Life Cycle Approach. This approach is discussed in our Technical Approach under TA2 and specifically for the work performed for SOW 5.6 IT Security Services. However, the CRM process is applied to the approach for assessing risks associated with IT systems.

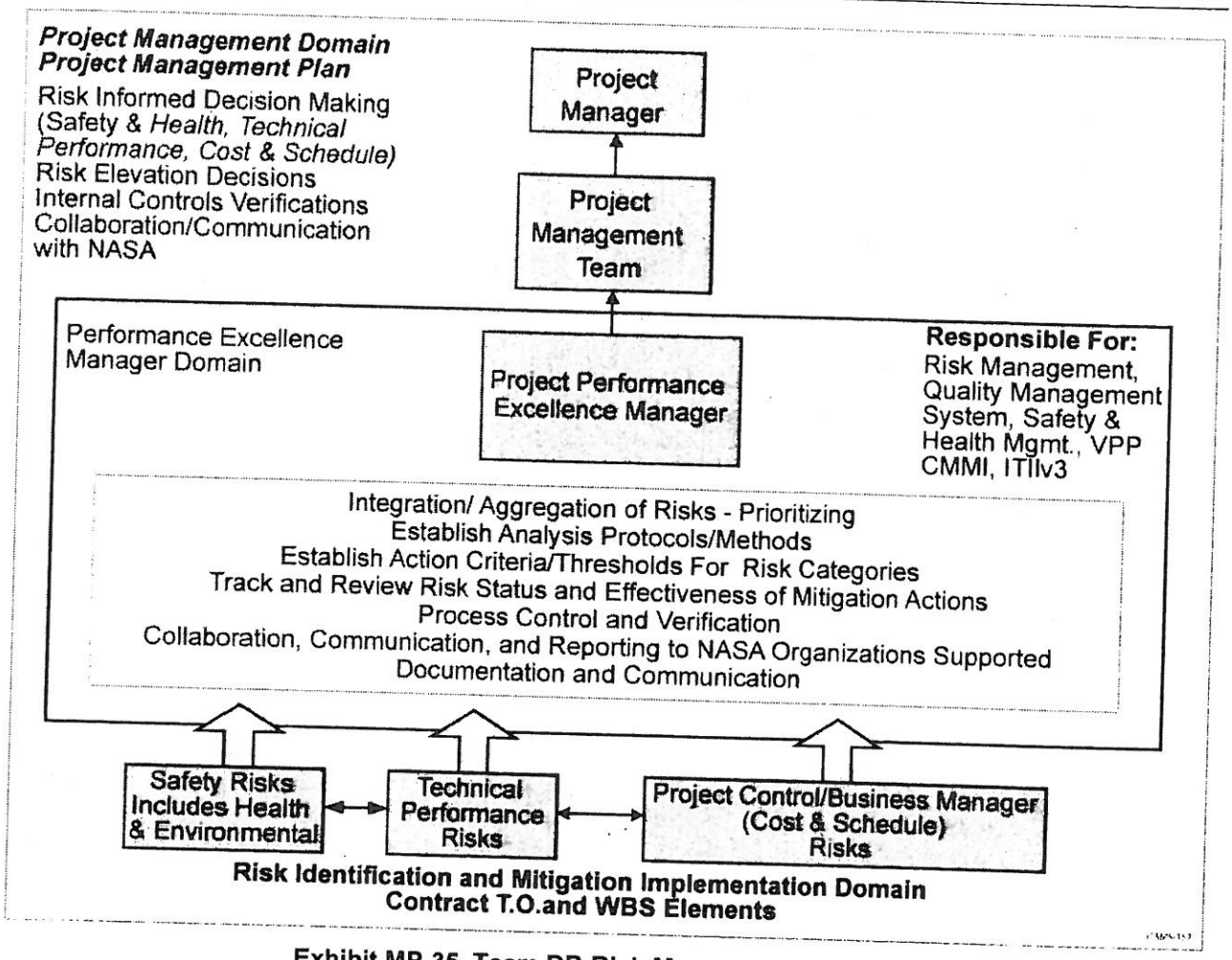

Exhibit MP-35. Team DB Risk Management System.

The flow chart shown on **Exhibit MP-36** depicts the Team DB Continuous Risk Management Process. Identified and assigned risks for all safety and health, technical performance, cost, and schedule issues are classified in terms of probability of occurrence and the expected severity of the resulting end states using a 5X5 risk matrix or a cumulative distribution function for cost and schedule risks. Attachment J8 to this proposal "ITAMS Safety and Health Plan" delineates how Safety and Health Risks are assessed and managed.

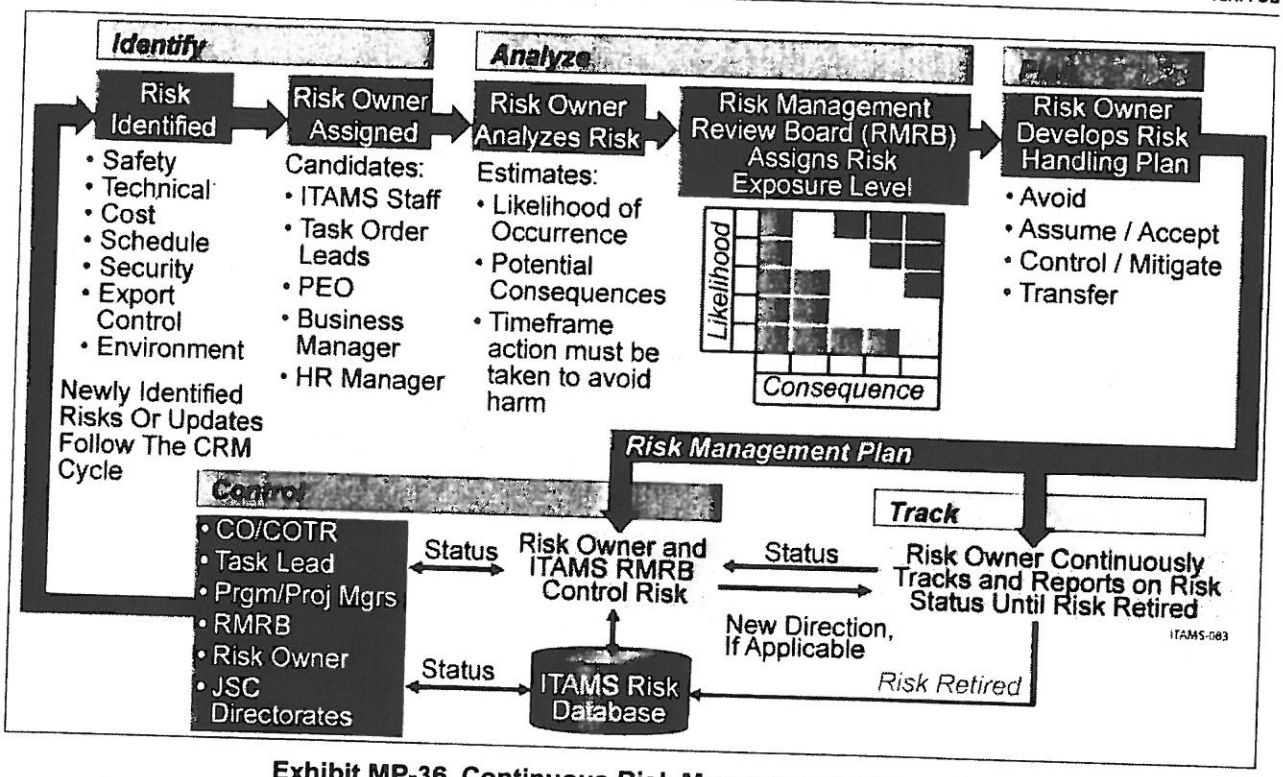

Exhibit MP-36. Continuous Risk Management Approach.

Technical performance risk assessments are typically accomplished for the implementation of new systems and technologies and require subject matter expert (SME) evaluation of analytical results, assumptions, and supporting data to generate probabilities, consequences, and uncertainties. Bayesian inference methods are used to update risk estimates as new information is considered and evaluated. Technical risk assessments provide a basis for the formulation of a risk handling plan, implementation of specific metrics to monitor status and control risk mitigation progress.

Cost & schedule represent two of the four risk components of project risk management and can interact with the other two risk areas – safety and technical performance. Duration is a significant factor that interacts with the cost of a task. The composite set of interrelated tasks defined in a Project's WBS is varied and uniquely complex resulting in a varying degree of probability of being completed within the time and cost planned. Quantitative Cost and Schedule Risk Assessment methods using stochastic models and Monte Carlo simulations as defined in the NASA Cost Estimating Handbook provide better estimates of these risks than deterministic methods, and are utilized where the risk level justifies it. Risk assessments for cost and schedule concerns using the CRM process focus cost/schedule risk analysis activities:

- Prior to initial project baseline,
- Project milestone reviews,
- Risk changes – newly identified, retired existing, risk changes,
- New task order, and
- Trades or alternatives under consideration.

8.9. Business Management Processes

8.9.1 Financial Management

Financial management is the project management process which uses estimates of the required resources identified in the resource management process to forecast an estimate of the cost of the project. Estimates of effort and cost for each work product are related to the work product's size. Historical productivity data is used where available. Estimates and assumptions are documented in the

Project Plan. This estimate is the basis of the budget data loaded into the work breakdown structure (WBS) in the cost accounting system. This system is used to judge the actual costs during the process to the forecasted targets. If the data is integrated with product and schedule data, the system will support analysis of the value earned thus far in the project and support estimates to completion and estimates at completion in support of management decision making to address potential overruns and underruns.

8.9.2 Subcontractor Management

Supplier contract management is the project management process which manages the formal interface with project suppliers. This process identifies products and services to be outsourced on the project. A survey of potential suppliers is performed and a competitive environment is established. After creating necessary requests for information (RFI) and requests for proposal (RFP), the procurement cycle is begun. A selection committee is established and criteria for selection created. All resultant proposals are subjected to the process for selection. Completing best and final offer (BAFO) and negotiation, the supplier is chosen. A documented agreement is reached identifying the products and services to be provided, requirements for the products, dependencies between the prime and subcontractor, evaluation criteria for monitoring subcontractor performance, and any standards and processes imposed on the subcontractor. This agreement becomes the basis for managing the subcontractor. Communication with the supplier, change processing affecting the supplier and acceptance of the final products and services are all controlled through this process.

9.0 CONFIGURATION MANAGEMENT PLAN

9.1 Introduction

9.1.1 Purpose

The purpose of this plan is to define the life cycle and processes used for items identified as requiring configuration control for the Information Technology and Multimedia Services (ITAMS) Contract. Configuration Management (CM) processes baseline and maintains control of products under development and their associated requirements, engineering drawings, software code, and other documentation that controls or specifies configuration. The approval of baseline configurations and the control of the changes to the approved baselines are necessary to control cost, project schedules, ensure safety, and maintain the integrity of the hardware, software and documentation that has been baselined. The ITAMS CM system provides a structured forum for the management team to:

- Review the cost, schedule, safety and risk(s) associated with proposed changes to an approved baseline,
- Ensure that all functional organizations that are tasked with implementing the change request (CR) have evaluated the CR for feasibility, cost, schedule, safety, and risk,
- To ensure that consensus within the ITAMS management team has been reached and that the CR is ready to present to the customer (when required) for final disposition, and
- Provide visibility to the customer and ITAMS personnel for the configuration status of the products and hardware/software at any point in time in their life cycle.

9.1.2 Scope

This plan is applicable to all aspects of ITAMS performed by DB Consulting and their team mates. This includes, hardware, software, and documentation placed under ITAMS CM control.

9.1.3 Reference Documents

- CxP 70073-01A Management Systems Requirements, Vol. I, Configuration Management
- JPR 1280.2ALyndon B. Johnson Space Center Quality Manual
- JPR-1281.8NC Product Identification and Traceability
- JPC-2800-2 JSC IT Investment Board Charter
- JPR 7120.3 Project Management: Systems Engineering & Project Control Processes and Requirements
- NPR 1441.1 NASA Records Retention Schedules
- JPR 1281.8 Product Identification and Traceability
- EA-WI-027A Configuration Management Requirements
- JPR 8500.4K Engineering Drawing System Manual
- JMI-2314.2L Identifying and Processing JSC Scientific, Technical, and
- JSC-291731 IRD Configuration management Plan
- JSC-64699 JSC IT Operations and Integration Charter
- JPR 1281.4 Design and Development

9.1.4 Configuration Management Approach

Team DB's CM approach is implemented throughout all elements of the program and has evolved through years of experience. A key lesson learned from Team DB's work on complex NASA programs is that to have an effective CM plan and implement it successfully, all cognizant elements of the program must participate from the start.

9.1.4.1 Configuration Control Responsibility

Exhibit MP-37 shows the organizational elements that implement the CM program and the main responsibilities of each. The Configuration Management function within the PEO operates as an extension of the program manager in guiding and coordinating the overall CM effort. Configuration identification activities continue immediately after award, configuration control is accomplished through the establishment of comprehensive baselines at prescribed control points in each task. A configuration control board structure provides the decision making and tracking mechanisms to ensure that DB, its subcontractors and NASA have current configuration status information. Finally, configuration audits verify that services and products are configured as requested by the customer.

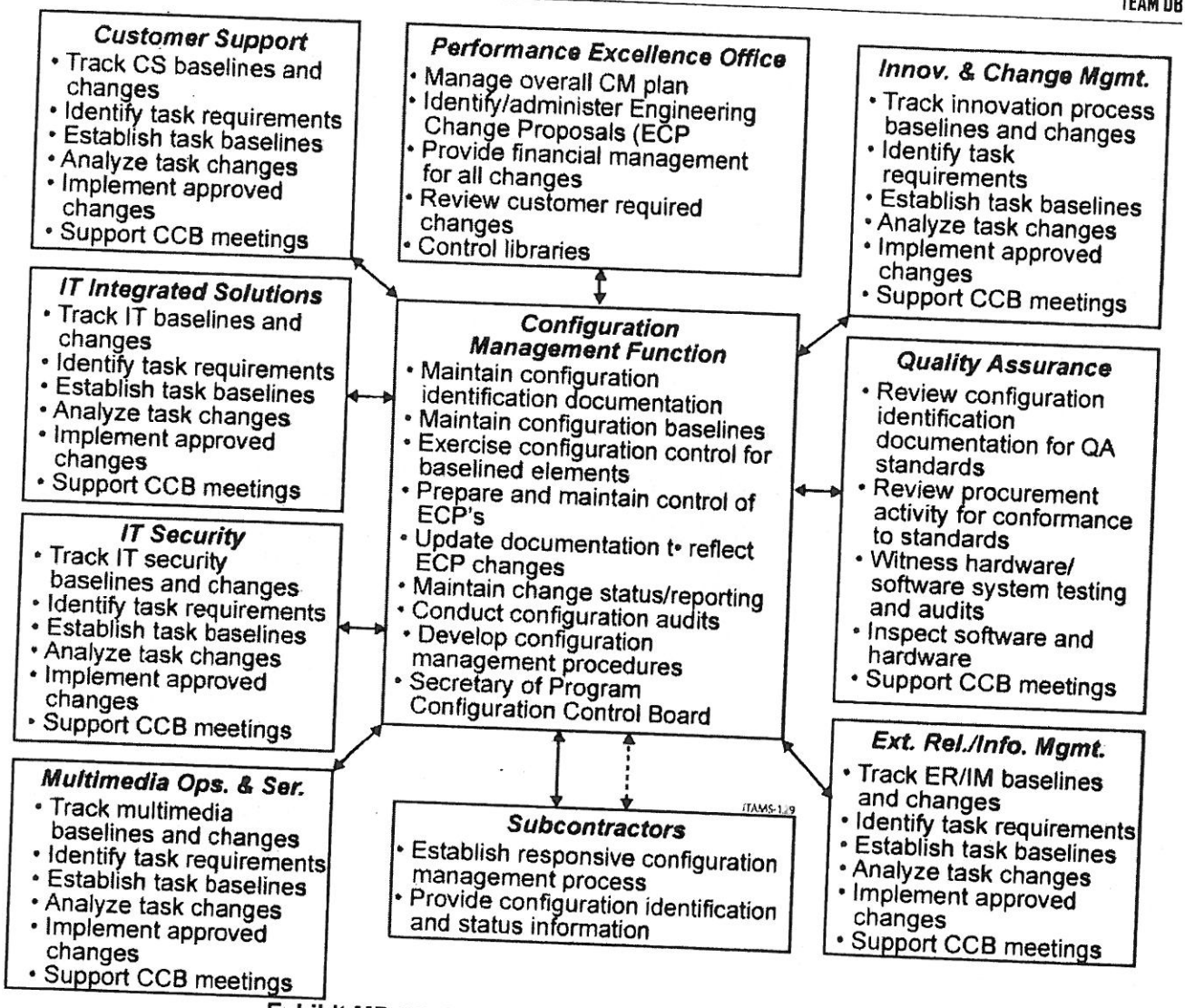

Exhibit MP-37. Configuration Management Approach.

9.1.5 Configuration Management Plan

Team DB recognizes that rigorous configuration management (CM) is essential to ITAMS Contract success. We have the experience to implement effective CM and are committed to do so for ITAMS– Upon award Team DB works with the designated CM administrator to create approved procedures and add detail to the proposed CM approach in the Management Plan (DRD 01). The CM approach, when approved, becomes the commitment approach in implementing an effective CM program. The approach will comply with JSC, NASA, and Team DB standards for CM and will embody the unique requirements of the ITAMS Contract. The CM function maintains the CM approach throughout the contract, modifying it as required and disseminating the changes to organizational elements and the customer. The CM approach becomes the basis for the program manager to instill the discipline needed in all program areas to tightly control change activity and provide accurate, current status to program management and the customer. This approach has been proven through use on NASA PACE III and NASA NRESS programs.

The DB CM approach complies with JSC and NASA standards and contains all essential functions of a robust CM solution – Configuration identification, configuration control, configuration status accounting, and configuration audit. Importantly, the DB solution specifies that all subcontractors are integrated with the process from the start and relies on the use of automated tools for implementation.

9.1.6 Configuration Management Process

Our CM process complies with NASA required standards and requirements. Team DB and NASA visibility and control of product and operational status are its dominant characteristics. The organization of our Configuration Management Plan is shown in **Exhibit MP-38.** The CM approach proposed for ITAMS is currently in use within DB and is based on compliance with NASA CxP70073-01A Management Systems Requirements, Vol. I, Configuration Management. It addresses all essential CM functions – configuration identification, configuration control, configuration status accounting, and configuration audit – all of which are covered in greater detail in the next section. An important aspect of the DB solution is that all subcontractors are integrated with the process from end-to-end. The CM function, working with subcontract management, ensues that the CM requirements specified in subcontractor's SOW's are well understood and incorporate their reporting with the overall ITAMS CM process.

DB's established CM processes rely heavily on the use of automated tools. Specialized tools to support CM are necessary on large, complex development / operational support efforts. Not only do they make it possible to track and report on high volumes of data, but they also reduce costs by electronically maintaining and disseminating status to the management team and NASA.

DB recognizes that effective configuration management is as important after new systems go operational as it is during design and integration. Our approach is designed to facilitate a smooth transition of CM systems on the various current support contracts to a common integrated approach on ITAMS, provide transparency to the many users of the CM system and ensure that the required life cycle support data is available.

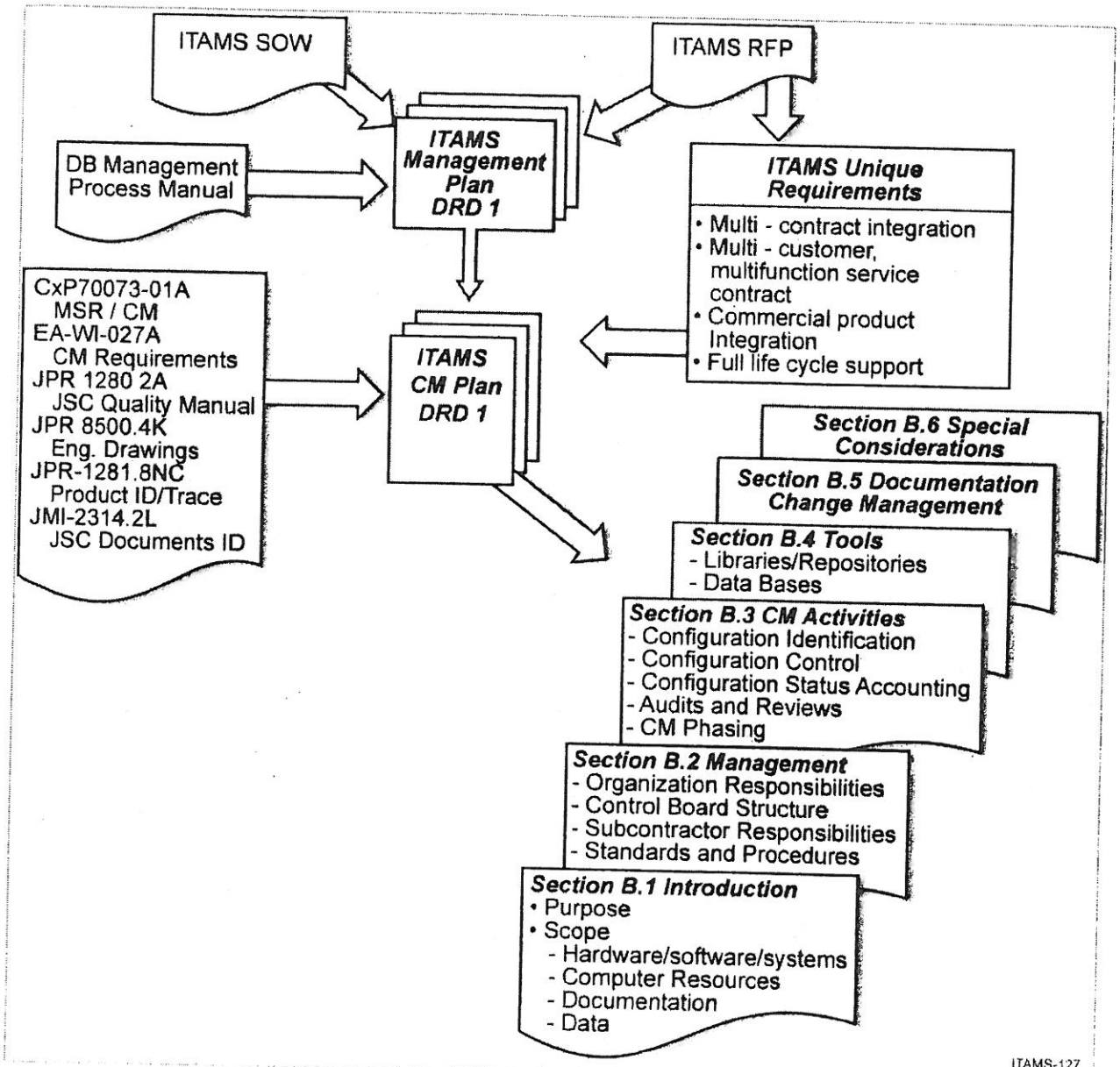

Exhibit MP-38. ITAMS Configuration Management Plan.

9.2 Configuration Control Definition

Our CM Process is well defined and its implementation is stable and consistent. The DB CM approach complies with JSC and NASA standards and contains all essential functions of a robust CM solution – configuration identification, configuration control, configuration status accounting, and configuration audit (verification). Activities associated with these functions are shown in **Exhibit MP-39**. More importantly, the DB solution specifies that all subcontractors are integrated with the process from the start and relies on the use of automated tools for implementation.

When a TO is received, Team DB reviews the requirements, and initiates the identification process to establish baselines in the Documentation Data System (DDS), where all the documents, products, and processes are captured. The requirements, design, and certified baselines are identified at the applicable lifecycle state with their revision information. Documenting baselines enables the product configuration to be controlled throughout its evolution. Products and related documentation are managed through 3 data configurations within (DDS): As Designed (complete design package at the Detail Design phase completion which includes drawings and related engineering data), As Built (product traceability,

incorporation information and associated data for an instance of a product design at the production phase completion), and As Qualified/Maintained (related effectivity and traceability information for operations & maintenance of this product available at the Deployment phase). Effective decisions are enabled with a full picture of the current configuration status. Changes to an existing related baseline are planned and implemented with the appropriate reviews and approvals captured within an automated release process. Dependant on the life cycle of the project and the baseline of the product, change may require the engineer's review or the full configuration control board authority. We support control board activities by preparing and coordinating directives, waivers, deviations, and maintaining complete accurate configuration data.

We perform Data Management of ITAMS data and processes using the Documentation Data System (DDS). By using a common configuration system throughout we centralize access, standardize processes, and enable everyone to perform their tasks with data that is reliable, current, and accessible real time. DDS provides CM with the methods to account for all baselines, documents, drawings and data items. The release of a new product or documentation baseline or the change to an existing baseline is programmatically routed for approval and distribution with automated lifecycle status accounting visibility.

Additionally, to ensure full product CM visibility and awareness, we conduct monthly Configuration Status Reviews of our implementation plan, with performance metrics, problems, actions, risks, mitigations, and planned improvements.

Configuration Management Activities	
Planning	• Configuration management planning typically can be performed using the following techniques: • Identification of baselines and their component configuration items • Baselining identified configuration items requiring change control • Change control via a cost/benefit impact analysis of each proposed change in terms of effort, schedule, and cost, etc • Audits of configurations in terms of content and readiness (e.g., for release) • Status Reports of the status of the baselines and their component configuration items
Identification	• Number each Product Configuration Item (CI) including Hardware, Software, Firmware and the associated documentation including part number; document number, serial number, lot code, etc. • Identify configuration baselines for each facility using equipment lists, documentation and procedures • Enforce standardized item naming conventions and use descriptive attribute fields to uniquely identify the items • Identify Engineering Change Requests and Change Proposals.
Control	• Apply control at each phase of the IT Project Life Cycle through a series of control gates defined in NPR 7120.7 • Establish the requirement, design, and certified baselines for IT Projects including; Hardware, Software and Firmware • Product data is managed within 3 data configurations (As Designed, As Built and As Qualified/Maintained) • The controlled approved baselines are comprised of released documents. Departure from these baselines require approval • Changes will be processed through the appropriate control boards for evaluation, then monitored through approval cycle and released for implementation. The CM function will prepare and maintain the Control Board directives, waivers and deviations • Processes are automated within (DDS), allowing electronic routing, approvals and closure. • Waivers and deviations will be submitted through contracts for approval. Approved deviations and waivers will be attached to the as-built data for the serial numbers affected • Maintain product configuration in (DDS) until disposition at product end of life

Configuration Management Activities	
Accounting	• Maintain, track, provide visibility to the state of products and documents throughout the project lifecycle using (DDS) • Compare hardware, as-designed vs. as-built vs. as-qualified and reconcile the differences with audits prior to acceptance • Create and use Project Files in (DDS) • Perform limited shelf life, limited operational life, and time cycle life documentation and tracking • Track the revision and iteration history for all Flight HW products, related documentation and RID closures • Qualification Data Packages, and Acceptance Data Packages will be maintained in (DDS) • Provide facility management with status accounting reports to evaluate and implement changes to configuration • A physical inventory (Physical Configuration Audit) will be performed for those facilities lacking complete documentation
Verification	• Provide CM support for System Reviews • Perform Functional Configuration Audits/Physical Configuration Audits (FCA/PCA) by collecting all documentation demonstrating the product's compliance to requirements. Quality will verify all hardware and software meet those requirements and present to NASA for acceptance. This documentation will then be available in (DDS) as the Qualification Data Pack and the Acceptance Data Package • Perform CM audits, verifying process & procedures are used by all; including teammates and subcontractors • Support archival and storage of products and documentation per product plan and procedures

Exhibit MP-39. Configuration Management Activities.

9.3 Documentation and Data Systems

A data management plan, rigorous data management controls, state-of-the –art tools, and proven procedures ensure on-time delivery of contract data. To increase efficiency and provide better service to our customers, DB policy directs that a formal Data Management Approach be established and maintained. This is consistent with NASA, JSC and contract requirements. Prior to contract award, documentation conflicts, redundancies and anomalies will have been flagged for customer review. Upon contract award, the DM approach in the CM Plan is submitted to NASA for approval. This plan, which embodies the overall data management process portrayed in **Exhibit MP-40** establishes the baseline for DM development and publication and serves as the basis for defining and managing the cost and schedules associated with documentation throughout the life of the contract. As shown in the exhibit, the dynamic aspects of the DM are maintained within the Schedule Management System (SMS) to ensure program-wide and NASA visibility of DRD schedules, requirements, and ownership. Through the SMS, all DRD schedule requirements and the detailed internal schedules needed to meet DRD delivery dates are maintained and distributed rapidly through periodic forecast and status reports to NASA and cognizant management team members, including subcontractors. These status reports are generated, distributed, and closely monitored by our DM function to include the latest information from authors, reviewers, or NASA. As with all other contract documents, subcontractor deliverables are monitored by the DM function. DB Will Apply a Formal, Proven System of Data Development, Review, and Approval. **Exhibit MP-40** portrays the document preparation, approval and release process that will be implemented for all documents. This process makes extensive use of automated tools and a program controlled library structure to ensure data integrity throughout the entire development phase. A formal process involving configuration management, quality assurance, and data management, as well as strict adherence to multiple levels of independent review for each deliverable document, ensures greater accuracy, quality, and compliance with customer requirements.

Data Management Tools and Controls Provide Timely Dissemination and Availability of All Contract Documentation and Correspondence – A key component of the data management process is the

Document Management System (DMS), through which all incoming and outgoing correspondence and contract information is logged and managed. The DMS workflow process, CM items, and CM support data are shown in **Exhibit MP-40**. ITAMS will utilize MS SharePoint with document management and schedule notification web parts as the DMS and SMS. As discussed in Section 8.2.2., MS SharePoint is one of the components of the ITAMS Management System (IMS). Using MS SharePoint, the following contract information is logged, controlled, distributed, retained and preserved:

- Task orders,
- Incoming/outgoing correspondence,
- Meeting minutes, trip reports, and telephone reports,
- Customer furnished reference documentation,
- Program standards and procedures,
- DRD items,
- Test and analysis data,
- Reconfiguration data, and
- Action items.

The above documents comprise the initial data included in the DM approach. Procedures that supplement the DMS are in place to ensure that all contract information flows through the data management function, is incorporated with DMS and, where appropriate, is stored on-line for electronic access. All correspondence and documentation are logged and accessed through the DMS on-line catalog, enabling the requestor to select and order desired documentation electronically. Both NASA and subcontract personnel have access to the on-line catalog for retrieving and referencing program data.

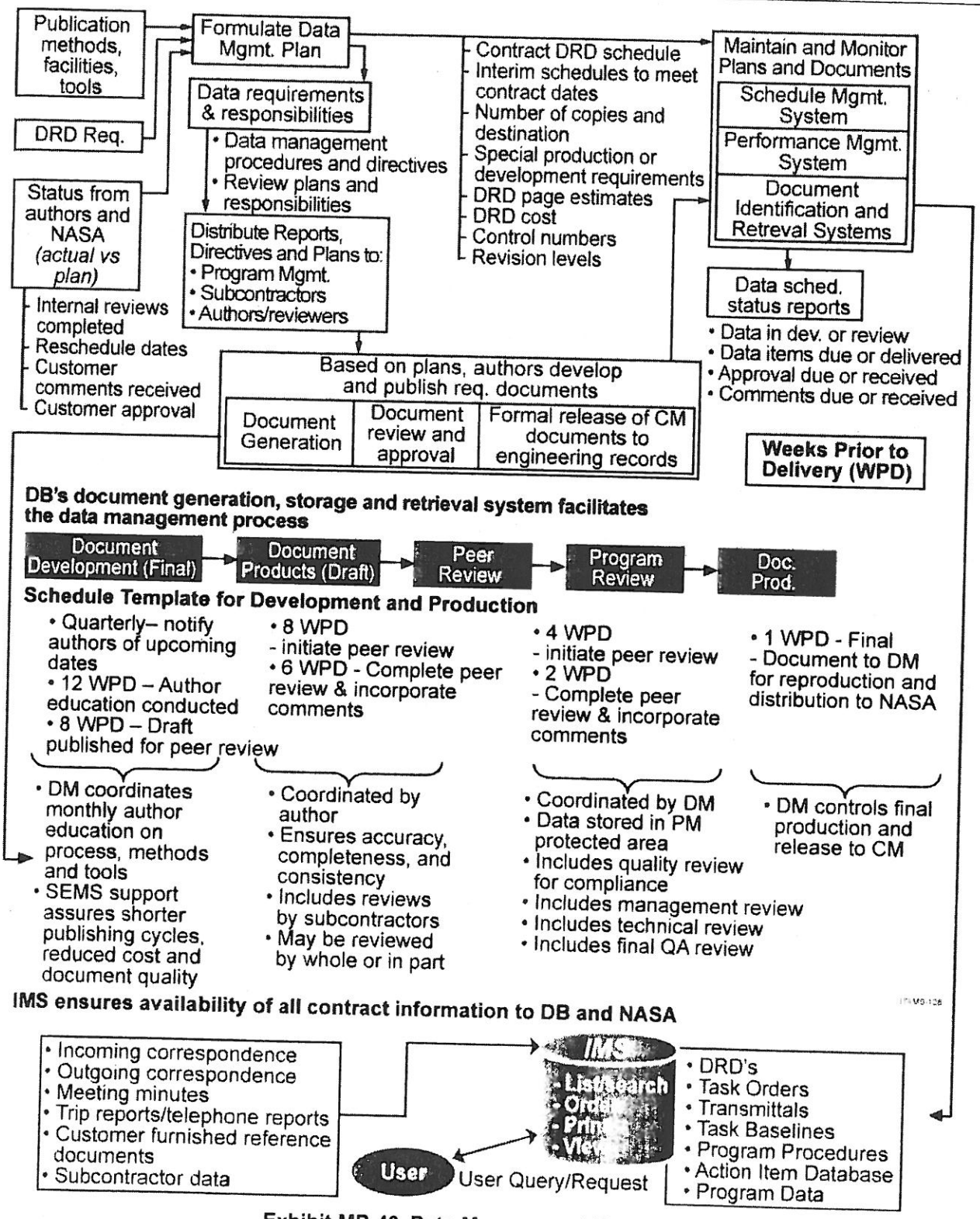

Exhibit MP-40. Data Management Process.

9.4 NASA Involvement

Customer involvement is essential for ITAMS success.. In ITAMS, a Configuration Control Board (CCB) is the focal point for configuration identification and change management. It is responsible for identifying and controlling the system components as the life cycle progresses and for assessing the total impact of

proposed changes to that configuration. It is the source of direction and has authority delegated by the Program Manager for implementation of all NASA approved changes. Its activities are a primary source of NASA involvement in the CM processes of ITAMS.

The proposed ITAMS CCB configuration and its relation to NASA functions is shown in **Exhibit MP-41**. The CCB is chaired by the ITAMS Program Manager and has representatives from all program elements, including the Contracts function and Quality Assurance. The CCB will be convened within 30 days of contract award and will remain in effect throughout the contract. The CM function serves as CCB secretary in planning and coordinating CCB meetings and disseminating minutes. All decisions involving proposed scope changes are forwarded to the customer via contracts. Through informal communications, the CM function keeps NASA CM personnel advised of activities and status.

As the contract progresses, sub-boards will be formed as an efficiency measure to monitor specific ITAMS functional areas that have specific product and operational needs. They will handle change activities within their scope, bringing changes that affect areas outside their function to the CCB. In similar fashion, subcontractors support the unique sub-boards and CCB as required to fulfill their functions and activities in the ITAMS organization.

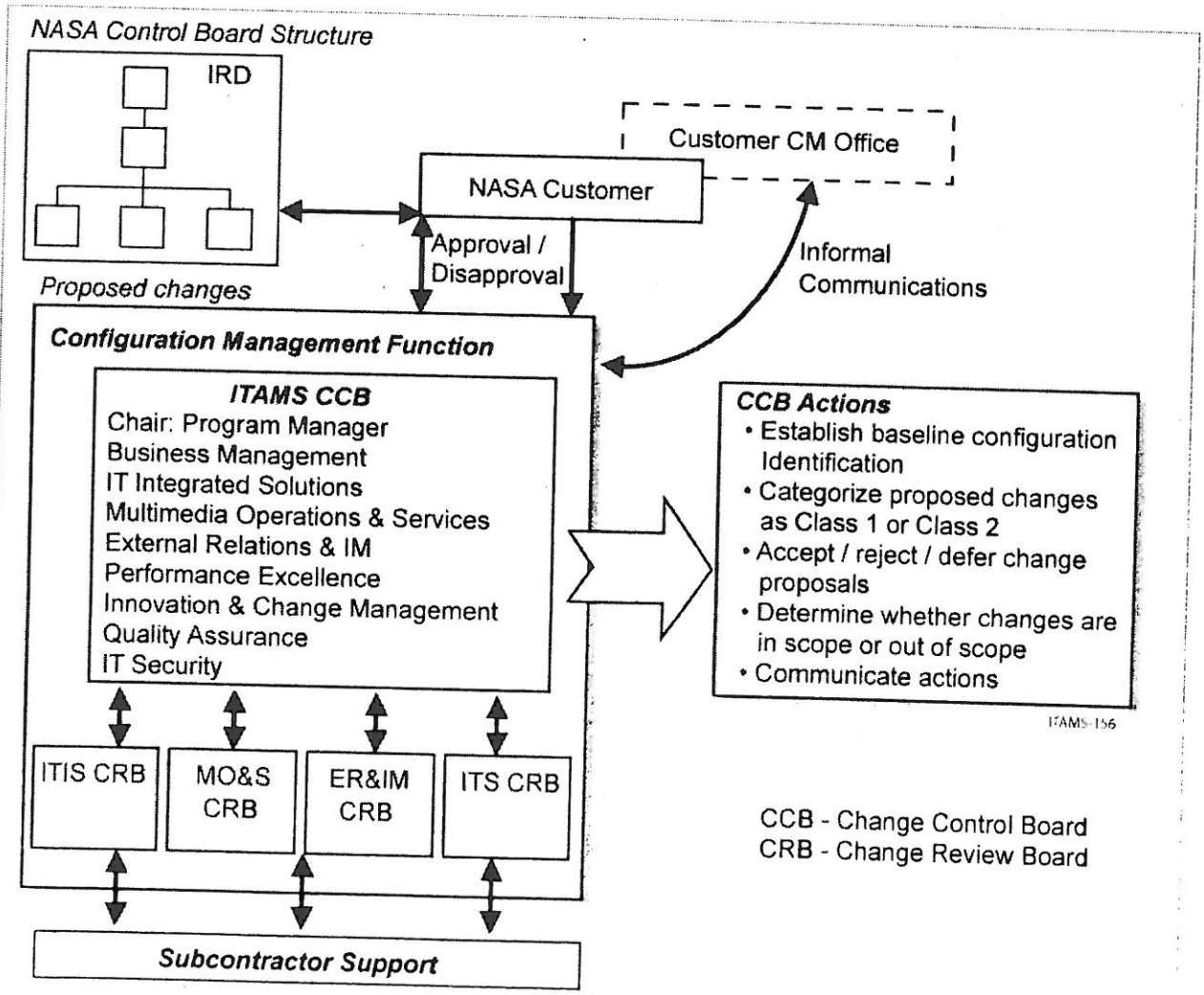

Exhibit MP-41. ITAMS CCB.

9.5 Specific Equipment, Systems, and Operational Interfaces

At the beginning of the Phase-in an enterprise analysis is performed to identify and inventory all specific equipment, systems and operational interfaces within the control of the ITAMS Contract. The inventory is reviewed with the NASA CM office for approval of the items feeding the ITAMS CCB Baseline

identification process. Once reviewed by the ITAMS CCB the baseline candidate list is offered to NASA for approval. Once approved the baseline list is controlled by the CCB modified only by formal change procedures.

9.6 Technical and Operational Interfaces

At the beginning of the transition phase (CSD) an Interface Control Working Group (ICWG) is formed to participate in the enterprise analysis and baseline identification activities. The ICWG members are representatives of the functional elements of the ITAMS organization. The ICWG goal is to ensure that technical and operational interfaces are properly identified, documented and controlled to provide compatibility and uninterrupted operations for ITAMS products users. The approved baseline list developed in Phase-in is analyzed by the ICWG to identify major interfaces which should be controlled. The major interface list is reviewed by the functional areas. The completed list is presented to the CCB for concurrence and to NASA for approval. Once approved, the ICWG uses the list to identify candidates for Interface Control Document (ICD) needs. Where an ICD already exists it is noted in the list. Where no ICD exists, the ICWG, with CCB and NASA approval initiates an effort to produce one. An ICD defines the interface, describes the interface boundary, identifies owners on each side of the interface boundary, and defines the rules for modifying the interface. ICD's, once reviewed and approved by the CCB, are baselined to support change activity required in the future.

9.7 Configuration Control Procedures

The CM function in the Performance Excellence Office is responsible for guiding and coordinating the overall CM effort. It works with the NASA CM coordinator after contract start to refine the processes described in this CM plan and seek contract approval of DRD 1. Once approved, the CM plan defines and guides CM process enactment within the ITAMS contract. As the processes are enacted there invariably rises a need to describe how certain CM are performed. To meet this need, the CM function writes procedures to assure consistent application of CM. These procedures are documented, reviewed, approved and grouped into baseline approaches for application of CM. Since procedures tend to change more often than the CM process kept within the CM plan, for efficiency reasons, they are usually kept separate from the CM Plan.

9.8 Information Fields

At contract start the information fields required for each category of equipment or software in the system are identified and analyzed with the NASA CM administrator. The identified set is reviewed at the CCB and formalized for approval by NASA. This set is added to the CM plan under CM activities in Section 9.2 of this plan. At a minimum, the information field will include information on the categories description, location, user, external connections to other systems, maintenance support, and manufacturer. Other fields suggested by users or used by CM systems in best practice examinations by ITAMS will be considered.

10.0 BASELINE CONFIGURATIONS

As described in Section 9.0 Team DB uses the steps of identification, accounting, control and audit to accomplish its CM objectives. During identification baseline configuration descriptions and drawings are provided and maintained for all systems. During the system life cycle these configuration items are updated to reflect NASA approved changes. The CM accounting process modifies the documentation using a version control numbering scheme that allows the historical evolution of the items to be captured and tracked and related to the current configuration being used for control in operations phase. It is also used as the control baseline to perform maintenance to generate the next operational baseline. Change tracking functions are used in the documentation process and related to the approved CR's which drove the changes. These are noted in the document change notifications with the delivery documents. This is also true for drawings where the changes may have altered the connectivity from past baselined configurations. These process steps, along with the resulting documentation, allow for the audit step to be performed by DB and allows for oversight and approval by NASA.

11.0 CHANGE AUTHORIZATION DOCUMENTATION REPORTS

The CM process, summarized in Section 10, identifies baselines for all systems and accounts for changes

against those baselines with accounting mechanisms such as Service Requests, Change Requests, and error corrections. To assist in control of the baselines at the CCB and IT Governance Boards, minutes and approval artifacts are generated and used to support the decision making process in those boards. These minutes and artifacts offer the additional advantage of allowing audits to be performed at both summary and detailed levels by personnel on the ITAMS team and by NASA JSC.

12.0 CHANGE TRACE

The DB CM process documents detailed changes against all identified baselines using the change accounting mechanisms mentioned in Section 11.0 It also summarizes that data as described there. Trace documentation is generated at both detailed and summary levels. The detailed level is used by engineering, CM, and management to perform their tasks. The summary levels are used at the board levels to assist in decision making about releases, the cost of total release maintenance and sun-setting of releases. This trace documentation is maintained as part of the documentation management process.

Attachment J-10
Systems Table

System Table - Instruction and Definitions
Each system listed below is referenced by its principle location in the Statement of Work (SOW). The primary systems are in bold text. The elements contained in each of the primary systems are listed below that. If the SOW reference is shaded, refer to the reference immediately above the shaded area.
Statement of Work Reference No. - The WBS elements within the SOW which contain applicable information regarding the listed system.
Statement of Work Title - The SOW WBS title of the listed WBS elements.
Systems are in bold type with system elements listed below. - The system to be defined. Many systems are made up of sub-elements. These will be listed below the main system and not in bold.
Building - The building where the system is located. A reference of "Sitewide" indicates that the system is located in numerous buildings (the cable system, for example).
Room - The room where the system is located. A reference of "n/a" indicates that the location within the building has no room number or that the system is located in numerous buildings and numerous rooms.
Principle Period Of Performance (PPP) - The time period the system is expected to be available for use. The format is typically: number of hours per day / number of days per week. Some entries will contain a specific number of weeks (e.g. 16/5 (10 weeks per year) which indicates that the system is not under operations all of the time and the contractor should estimate support for the number of weeks provided.
Minimum Availability - The minimum expected time for the period of performance. This is defined as the number of hours the system is available for use / the number of hours the system is expected to be available. (For example: A system has been available for 662 hours for a month with expected number of hours, 24*7*4 = 672. The system was down for schedule maintenance for 3 hours. Then availability is defined as (662+3) / 672 = 98.96%.
Scheduled Outages Included - Yes means that time under scheduled outages is counted as part of the a system being unavailable. No means that scheduled outages are not counted against the availability metric.
Maximum Response Time - The maximum amount of time allowed for a system/sub-system to become available after an outage has been detected.
Operations Required (Shifts/Wk) - The number of shifts required for operational support of a listed system. (e.g. 5: one - 8 hour shift Monday through Friday, 10: two - 8 hour shifts Monday through Friday and 14: two - 8 hour shifts for every day of the week.
Criticality - See Attachment J-22, Performance Standards, WBS 5.0
Notes: "critical*" means the system has no redundancy and a failure halts or seriously degrades system operability.

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Operations Required (Shifts/Wk) - The number of shifts required for operational support of a listed system. (e.g. 5: one - 8 hour shift Monday through Friday, 10: two - 8 hour shifts Monday through Friday and 14: two - 8 hour shifts for every day of the week.
Criticality - See Attachment J-22, Performance Standards, WBS 5.0
Notes: "critical*" means the system has no redundancy and a failure halts or seriously degrades system operability.

System Table - Instruction and Definitions

Each system listed below is referenced by its principle location in the Statement of Work (SOW). The primary systems are in bold text. The elements contained in each of the primary systems are listed below that. If the SOW reference is shaded, refer to the reference immediately above the shaded area.

Statement of Work Reference No. - The WBS elements within the SOW which contain applicable information regarding the listed system.

Statement of Work Title - The SOW WBS title of the listed WBS elements.

Systems are in bold type with system elements listed below. - The system to be defined. Many systems are made up of sub-elements. These will be listed below the main system and not in bold.

Building - The building where the system is located. A reference of "Sitewide" indicates that the system is located in numerous buildings (the cable system, for example).

Room - The room where the system is located. A reference of "n/a" indicates that the location within the building has no room number or that the system is located in numerous buildings and numerous rooms.

Principle Period Of Performance (PPP) - The time period the system is expected to be available for use. The format is typically: number of hours per day / number of days per week. Some entries will contain a specific number of weeks (e.g. 16/5 (10 weeks per year) which indicates that the system is not under operations all of the time and the contractor should estimate support for the number of weeks provided.

Minimum Availability - The minimum expected time for the period of performance. This is defined as the number of hours the system is available for use / the number of hours the system is expected to be available. (For example: A system has been available for 662 hours for a month with expected number of hours, 24*7*4 = 672. The system was down for schedule maintenance for 3 hours. Then availability is defined as (662+3) / 672 = 98.96%.

Scheduled Outages Included - Yes means that time under scheduled outages is counted as part of the a system being unavailable. No means that scheduled outages are not counted against the availability metric.

Maximum Response Time - The maximum amount of time allowed for a system/sub-system to become available after an outage has been detected.

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System Table

Statement of Work Reference No.	Statement of Work Title	Systems are in bold type with system elements listed below.	Building	Room	Principle Period Of Performance (PPP)	Minimum Availability	Schedule Outages Included	Criticality	Maximum Response Time (see notes on Instructions and Definitions tab for definiton of "new	Operatior Required (Shifts/Wk)
		General Customer Support								
4.1	Customer Support Center	**Customer Service Area**	8	Lobby	8/5	99.9000%	Yes	4	2 days	5
		Human Resource Information Systems								
5.1, 5.4, 5.5	Application Services, IT Systems Engineering, Installation, Maintenance and Operations, System Capacity Planning and Performance Management	**Exchange operations**	3,11, Gilruth	N/A	8/5	99.9% (while in use)	Yes	3	30 minutes while in use	N/A
5.4, 5.5	IT Systems Engineering, Installation, Maintenance and Operations, System Capacity Planning and Performance Management	**Human Resource Class rooms**	12	256, 286, 188	8/5	99.9% (while in use)	Yes	3	30 minutes while in use	N/A
5.1, 5.4, 5.5	Application Services, IT Systems Engineering, Installation, Maintenance and Operations, System Capacity Planning and Performance Management	**Application/Web servers**	JSC Data Center	N/A	24/7	99.9000%	Yes	4	1 day	N/A
		Information Technology								
5.1, 5.4, 5.5	Application Services, IT Systems Engineering, Installation, Maintenance and Operations, System Capacity Planning and Performance Management	**IRD Application/Web servers**	JSC Data Center	N/A	24/7	99.9000%	No	4	1 day	N/A
5.4.6.1, 5.4.6.2, 3.3	**Multimedia Engineering and Installation; Multimedia Maintenance; Configuration Management**	**Multimedia Engineering, Installation and Maintenance**								
		Baseband Video Distribution Network (includes analog & digital cable & fiber plus routing systems)	Sitewide	N/A	24/7	99.9000%	No	4	2 days	14
		Cable TV Distribution Network	Sitewide	N/A	24/7	99.9000%	No	4	2 days	5
		JSC Omni Broadcast System Transmitters and Receivers	Sitewide	N/A	24/7	99.9000%	No	4	2 days	5
		IP Network TV Encoders	Sitewide	N/A	24/7	99.9000%	No	4	2 days	5
		Audio and Intercom Distribution Systems and Network	Sitewide	N/A	24/7	99.9000%	No	4	2 days	14
		Lobby, Conference Room & Office TVs & Video Players	Sitewide	N/A	8/5	99.9000%	No	4	5 days	N/A
		Collaborative and Meeting Room Multimedia Support Systems	Sitewide	N/A	8/5	99.9000%	No	4	2 days	N/A
		JSC Central Security Control System (includes camera, card readers, etc.)	Sitewide	N/A	24/7	99.9000%	No	4	Next business day	N/A
		Flight Control Room Camera System	Bldgs. 2, 8, 30M & 30S	N/A	24x7 during critical mission periods 8/5 otherwise	99.9000%	No	4	2 days or 4 hours during critical mission periods	N/A
		News Media Audio and Video Distribution Interface and Equipment	Bldgs. 2 & T586	N/A	24x7 during critical mission periods 8/5 otherwise	99.9000%	No	4	2 days or 4 hours during critical mission periods	5
		Video Routing and Control System	7	N/A	16/5 (10 weeks/year)	99.9000%	No	4	2 days	10
		Video Baseband Distribution System	7	N/A	16/5 (10 weeks/year)	99.9000%	No	4	2 days	10
		Test Chamber Camera Systems (several)	7	N/A	16/5 (10 weeks/year)	99.9000%	No	4	2 days	10
		Institutional Support Video Recording, Processing, Editing and Duplication Systems and Equipment	8	N/A	24/7	99.9000%	No	4	2 days	5
		Digital Mastering System	8	N/A	8/5	99.9000%	No	4	2 days	14
		Mission Support Video Recording, Processing, Editing and Duplication Systems and Equipment	8	N/A	24/7	99.9000%	No	4	2 days or 4 hours during critical mission periods	14

Statement of Work Reference No.	Statement of Work Title	Systems are in bold type with system elements listed below.	Building	Room	Principle Period Of Performance (PPP)	Minimum Availability	Schedule Outages Included	Criticality	Maximum Response Time (see notes on Instructions and Definitions tab for definiton of "Hall	Operati Require (Shifts/W
		TV Receive Only (TVRO) Satelite Antennas and Equipment	Bldgs. 8, T588 & others	N/A	8/5	99.9000%	No	4	2 days	5
		Avionics Integration Laboratory Video System	16	N/A	8/5	99.9000%	No	4	2 days	N/A
		Baseband Video Distribution Network (includes analog & digital cable & fiber plus routing systems)	32	N/A	16/5 (10 weeks/year)	99.9000%	No	4	2 days	10
		Video Routing and Control System	32	N/A	16/5 (10 weeks/year)	99.9000%	No	4	2 days	10
		Vacuum Test Chamber Camera System	32	N/A	16/5 (10 weeks/year)	99.9000%	No	4	2 days	10
		Film Archive Transfer System	398	N/A	8/5	99.9000%	No	4	2 days	5
		Acoustic and Vibration Chamber Video System	49	N/A	8/5	99.9000%	No	4	2 days	N/A
		Arc-Jet Facility Video System	222	N/A	8/5	99.9000%	No	4	2 days	N/A
		Baseband Video Distribution Network (includes analog & digital cable & fiber plus routing systems)	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		Central Video Routing System	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		NBL Camera Support (Cameras, central control processor, camera control units, control panels, and interconnecting cables)	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		Test Conductor Control Room - Video Monitoring and Display Systems	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		Test Conductor Control Room - Video System Operator Console Support Systems	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		SS Support Video Subsystem	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		Chamber Camera Systems	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		Hyperbaric Chamber Support Video Subsystem	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		Scuba Tank Fill Area Video Security system	NBL	N/A	8/5	99.9000%	No	4	2 days	5
		SCTF Video Security System	SCTF	N/A	24/7	99.9000%	No	4	Next business day	N/A
		Cable TV Distribution Head-End and Network	Ellington	N/A	8/5	99.9000%	No	4	2 days	5
		Ellington Field Video Security System	Ellington	N/A	24/7	99.9000%	No	4	Next business day	N/A
5.4	Multimedia Operations and Services Multimedia Acquisition; Videotape Duplication	Videotape and Portable Camera Storage and Dessicant Dehumidifier for Film Vault	8	226B	24/7	99.9000%	No	4	Next business day	N/A
5.4.	Collection Development and Maintenance	8 Film Vault	8	TBD upon competion of construction	24/7	99.9000%	No	4	Next business day	N/A
5.4.6.1.4	Configuration Management, Sustaining Engineering	TV Maintenance Area	8	215B	8/5	99.9000%	No	4	2 days	5
5.6.2.1	**Perimeter Firewall Systems**	**Perimeter Firewall Systems**	**JSC Data Center**	**N/A**						
		JSC Firewalls	JSC Data Center	N/A	24/7	99.9999%	Yes	5	30 minutes	N/A
		Firewall Log Servers	JSC Data Center	N/A	24/7	99.9990%	Yes	5	4 hrs	N/A
		WSTF Firewalls	WSTF Data Center	N/A	24/7	99.9999%	Yes	5	4 hrs	N/A
		DMZ SPIF 17 ISG-2000	JSC Data Center	N/A	24/7	99.9999%	Yes	5	30 minutes	N/A

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5.6.2.2	Content Monitoring and Filtering Systems	Content Monitoring and Filtering Systems	JSC Data Center	N/A						
		NetContext-CA	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		NetContext-NTR (to be replaced by IPView)	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		NetContect-CA	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		NetContext-NTR	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		URL NID	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		URL CMS	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		SurfControl Systems	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.3	Network Intrusion Detection and Prevention Systems	Network Intrusion Detection and Prevention Systems	JSC Data Center	N/A						
		Intrusion Detection Systems	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		ISS SiteProtector Application Server	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		WSTF ISS SiteProtector Application Server	WSTF Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		Network Sensors	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.4	Traffic Capturing and Analysis Systems	Traffic Capturing and Analysis Systems	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.5	IT Security Support Systems	IT Security Support Systems	JSC Data Center	N/A						
		Boundary Services Log Repository servers	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		JSC IT Security Forensics Repository servers	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		IT Security Forensics console	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.6	Vulnerability and Discovery Scanning Systems	Vulnerability and Discovery Scanning Systems	JSC Data Center	N/A						
		Vulnerability Scanning systems	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		ISO Linux scanner	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		INS Linux scanner	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		WSTF Linux Scanner	WSTF Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.7	Consolidated Logging Systems	Consolidated Logging Systems (Loglogic)	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.8	Remote Access System	Remote Access System	JSC Data Center	N/A						
		Point-to-Point Tunneling Protocol Environments	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
		R2S Systems	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.9	Public Key Infrastructure Registration Authority and Roaming Profile Systems	Public Key Infrastructure Registration Authority and Roaming Profile Systems	JSC Data Center	N/A						
		PKI Laptop	JSC Data Center	N/A	24/7	99.9000%	No	4	4 hrs	N/A
		PKI Profile Servers	JSC Data Center	N/A	24/7	99.9000%	Yes	4	4 hrs	N/A
5.6.2.10	Security Information Management Systems	Security Information Management Systems	JSC Data Center	N/A						
		Security Data Warehouse Environment	JSC Data Center	N/A	24/7	99.9000%	No	4	4 hrs	N/A
		Multimedia Operations and Services								
6.1.2, 6.3	JSC Institutional and Mission Support; General Photographic Operations and Services	Multimedia Acquisition								
		Photography Studio	8	272	8/5	99.9000%	No	4	2 days	5
		Photography Equipment Control Area	8	298	8/5	99.9000%	No	4	2 days	5
		Photography Screening Area	8	293	7:30/11	99.9000%	No	4	5 days	10
6.2	Human Spaceflight Multimedia Operations	Still Digital Imaging System								
		Payload Control Center - POCC (ESC)	30	212	24x7 during critical mission periods	100.0000%	No	5	2 hrs	21

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6.2	Human Spaceflight Multimedia Operations	**Television and Video System (subsystems)**								
		Video Downlink Recording and Playback System (VDRPS)	8	280	24/7	99.9000%	No	4	2 days	14
		Spaceflight Imagery Review Facility	12	254	On request	99.9000%	No	4	2 days	5
6.3	General Photographic Operations and Services	**Photographic, Hybrid and Digital Imaging System**								
		Rack and Tank Processing	8	184	7:30/11	99.9000%	No	4	2 days	10
		RA-4 Paper Processing	8	110	7:30/11	99.9000%	No	4	2 days	10
		Mission Scanning	8	181B	7:30/11	99.9000%	No	4	5 days	10
		Institutional Scanning	8	103R	7:30/11	99.9000%	No	4	2 days	10
		Large Format Digital Scanning	8	125A	7:30/11	99.9000%	No	4	2 days	10
		Shipping and Mounting Area	8	174	7:30/11	99.9000%	No	4	5 days	10
		Durst Lambda Control Area	8	172A	7:30/11	99.9000%	No	4	2 days	10
		Fuji Frontier	8	169	7:30/11	99.9000%	No	4	2 days	10
		Medium Format Digital Printing	8	121B	7:30/11	99.9000%	No	4	2 days	10
		Digital Imaging Laboratory	8	125AB	7:30/11	99.9000%	No	4	2 days	10
		Chemical Mixing Area	8	290	8 /5	99.9000%	No	4	5 days	5
		Chemical Analysis Area	8	290B	8 /5	99.9000%	No	4	5 days	5
6.4	General Video Operations and Services	**General Video Operations and Services**								
		Scenelisting	8	218	8 hrs/day (non-mission), 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	1
6.4.2	Video Products									
		Tape Duplication Facility (TDF)	8	208	7:30/11	99.9000%	No	4	2 days	5
		Video Products	8	280	7:30/11	99.9000%	No	4	3 days	10
6.5	Video Teleconferencing, Meeting and Presentation Support, Multimedia Equipment Loan Pool	**Video Teleconferencing System**								
		Video Teleconferencing Distribution (VTC)	8	273B	8/5	99.9000%	No	4	2 days	5
		NISN CODEC Remote Control	8	273B	N/A	N/A	No	N/A	N/A	5
		VTC Room	1	220	8/5	99.9000%	No	4	2 days	5
		VTC Room	1	257A	8/5	99.9000%	No	4	2 days	5
		VTC Room	1	360A	8/5	99.9000%	No	4	2 days	5
		VTC Room	1	457A	8/5	99.9000%	No	4	2 days	5
		VTC Room	1	818	8/5	99.9000%	No	4	2 days	5
		VTC Room	1	945	8/5	99.9000%	No	4	2 days	5
		VTC Room	1	966	8/5	99.9000%	No	4	2 days	5
		VTC Room	4S	4519	8/5	99.9000%	No	4	2 days	5
		VTC Room	8	2100	8/5	99.9000%	No	4	2 days	5
		VTC Room	8	SVAS/JSC7	8/5	99.9000%	No	4	2 days	5
		VTC Room	17	1066	8/5	99.9000%	No	4	2 days	5
		VTC Room	17	2026	8/5	99.9000%	No	4	2 days	5
		VTC Room	30M	225	8/5	99.9000%	No	4	2 days	5
		VTC Room	30M	311	8/5	99.9000%	No	4	2 days	5
		VTC Room	9	2170/DLO/STU	8/5	99.9000%	No	4	2 days	5
		VTC Room	9	2170/DLO/EDU	8/5	99.9000%	No	4	2 days	5
		VTC Room	30S	2312	8/5	99.9000%	No	4	2 days	5
6.5	Video Teleconferencing, Meeting and Presentation Support, Multimedia Equipment Loan Pool	**Staging and Presentation**								
		Staging and Presentation Equipment	Sitewide	N/A	8/5	99.9000%	No	4	2 days	5
		Auditorium	30	N/A	8/5	99.9000%	No	4	2 days	5
		Teague Lobby	2S	N/A	8/5	99.9000%	No	4	2 days	5
		Teague Auditorium	2S	N/A	8/5	99.9000%	No	4	2 days	5
		Conf Room	1	966	8/5	99.9000%	No	4	2 days	5
		Conf Room	1	945	8/5	99.9000%	No	4	2 days	5
		Gilruth Center	Gilruth	N/A	8/5	99.9000%	No	4	2 days	5
		Information Management								
7.1.6	Document and Data Scanning	**Microfiche and Scanning Systems**	227							
		16mm Canon CF100 Camera	227	30	8/5	99.9000%	No	4	5 days	5
		Fiche Camera Consolidated Micrographic	227	30	8/5	99.9000%	No	4	2 days	5
		35mm 3M2800	227	30	8/5	99.9000%	No	4	2 days	5
		Documate Automate Fiche Camera	227	30	8/5	99.9000%	No	4	2 days	5
		Varifilm Processor	227	29	8/5	99.9000%	No	4	2 days	5
		3M Quantimatic Aperture Card Printer	227	32	8/5	99.9000%	No	4	2 days	5
		3M948 Encoder - Punch Aperture Cards	227	32	8/5	99.9000%	No	4	2 days	5

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		Panasonic KVSS855 Document Scanner	227	34	8/5	99.9000%	No	4	2 days	5
		Kip 2080 Image Scanner - Large Foat Scanner	227	34	8/5	99.9000%	No	4	2 days	5
		HP3000CP Inkjet Printer	227	4	8/5	99.9000%	No	4	2 days	5
7.2	Library and Multimedia Repository Management	**Library System (subsystems)**								
		TV Archival Storage	12	160	8/5	95.0000%	No	4	1 day	N/A
		Library Lobby	45	Annex	8/5	95.0000%	No	4	1 day	N/A
		Library Documents	45	Annex	8/5	95.0000%	No	4	1 day	N/A
		Library Bound Journals	45	Annex	8/5	95.0000%	No	4	1 day	N/A
		Library Main Collection	45	Annex	8/5	95.0000%	No	4	1 day	N/A
		Library Walk Up Computers	45	Annex	8/5	95.0000%	No	4	1 day	N/A
		Lundia Files	424	104	8/5	99.9000%	No	4	1 day	N/A
		Power Files	424	104	8/5	95.0000%	No	4	1 day	N/A
		OLD Cataloging Files	424	104	8/5	95.0000%	No	4	1 day	N/A
		Customer Resource Area	424	104	8/5	95.0000%	No	4	1 day	N/A
		Negative Control Area	424	104	8/5	95.0000%	No	4	1 day	N/A
		Cataloger Workstation	424	104	8/5	95.0000%	No	4	1 day	N/A
		Media Resource Center Storage Files	423	107	8/5	99.9000%	No	4	2 hrs if critical*; 1 week if not	N/A
		Media Resource Center Customer Service Area	423	106	8/5	98.0000%	No	3	1 day	5
7.5.2	Graphics	Video and Film Repository	2N	176	8/5	98.0000%	No	3	1 day	5
		Graphics Services								
		Graphics Control Room	227	1	N/A	N/A	No	N/A	N/A	N/A
7.2.3	Multimedia Repository Management	Spray Booth	227	4	N/A	N/A	No	N/A	2 days	5
		Video Repository	8	225	8/5	98.0000%	No	3	1 day	5
		External Relations Support Services								
8.1.2	Audio Program Control, Recording and Products	Television Audio Room - Production	2S	204	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1, 8.1.4	Television Production, Video and Multimedia Production	Television Production Room 2 - TPR2	2S	204	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1, 8.1.1.1- 8.1.1.3, 8.1.3, 8.1.4	Television Production, Briefings, In-Flight Events, Live Interviews and Appearances, Mission Commentary, Video and Multimedia Production	Video Dubbing Panel	2S	208	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1, 8.1.1.1- 8.1.1.3, 8.1.3, 8.1.4	Television Production, Briefings, In-Flight Events, Live Interviews and Appearances, Mission Commentary, Video and Multimedia Production	Still Store (Top) / Special Effects Generator (Bottom)	2S	208	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1	Television Production	Camera Control Unit Area - CCU	2S	208, 110	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1	Television Production	Switcher (Left) / Patch Panel (Right)	2S	208	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1	Television Production,	Television Production Room 1 - TPR1	2S	204	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1, 8.1.1.1 - 8.1.1.3, 8.1.3, 8.1.4	Television Production, Briefings, In-Flight Events, Live Interviews and Appearances, Mission Commentary, Video and Multimedia Production	Graphics Suite for TV Productions	2S	203, 102	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1, 8.1.1.1- 8.1.1.3, 8.1.3, 8.1.4	Television Production, Briefings, In-Flight Events, Live Interviews and Appearances, Mission Commentary, Video and Multimedia Production	Production Control Room - PCR	2S	211	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.2	Audio Program Control, Recording and Products	Audio control room - ACR	2S	210	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1.1	Briefings	PAO Press Briefing Room	2N/2S	2N 101 & 2S 120 & Teague	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.1.1	Briefings	Video Cameras for Press Briefings	2N/2S	2N 101 & 2S 120 & Teague	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
1, 8.1.1, 8.1.1.1, 8.1.3,8.1.4	**Public Affairs, Television Production, Briefings, Mission Commentary, Video and Multimedia Production**	**Video Computer Lab (VCL)**	**2S**	**203/102 & Teague**						
8.1.1, 8.1.4	Television Production, Video and Multimedia Production	Overview	2S	109, 106, 112, 204, 206	8hrs/dayx 5 days/wk	99.9000%	No	4	8 hrs if critical*, 1 week if not	5

Statement of Work Reference No.	Statement of Work Title	Systems are in bold type with system elements listed below.	Building	Room	Principle Period Of Performance (PPP)	Minimum Availability	Schedule Outages Included	Criticality	Maximum Response Time (see notes on Instructions and Definitions tab for definiton of "MR"	Operations Required (Shifts/Wk)
8.1.1, 8.1.4	NASA Television and Media Distribution, Non-Mission Television, Video, and Media Production	**PAO Systems**	**Bldg 2S**	**109, 110,208,210, 107, 211**						
		PAO MDC1	2S	107	24/7	99.4000%	No	4	4 hrs	5
		PAO Video Editing System 1	2S	112	24/7	99.4000%	No	4	4 hrs	5
		PAO Video Editing System 2	2S	206	24/7	99.4000%	No	4	4 hrs	5
8.2.1, 8.2.1.1, 8.2.1.2,	**Exhibits Program, Outreach Campaigns and Events Exhibits, Traveling Exhibits, Exhibit Production and Refurbishment**	**Exhibit Fabrication and Storage**	**ITAMS Contractor Offices Offsite**	**Warehouse**						
8.2.1, 8.2.1.1, 8.2.1.2, 8.2.1.3	Exhibits Program, Outreach Campaigns and Events Exhibits, Traveling Exhibits, Exhibit Production and Refurbishment, Artifact and Exhibits Management/ Maintenance	**Exhibit Overview**	ITAMS Contractor Offices Offsite	Warehouse	8 hours/day; 5 days/week	98.0000%	No	3	3 days for equipment	5
8.2.3.3	General Media Support Services	**News area**	2N	130	N/A	N/A	No		N/A	N/A
8.1.1, 8.1.4	Television Production, Video and Multimedia Production	**Video Editing Suite, back up AVID**	2S	205	8hrs/day (non-mission); 24/7 during mission	99.9000%	No	4	2 hrs if critical*; 1 week if not	5 (non-mission period); 14 during missions
8.1.4	Video and Multimedia Production	**AVID System & TV/AV, Multimedia Engineering/Maintenance**	Bldg 2S ,	Room 110, 109, 208, 206, 205, 203, 207, 212,105, 103, 122	24/7	99.9000%	No	4	2 hrs if critical*; 3 days if not	5 (non Mission or critical production) 14 during mission or *critical production

Attachment J-11
Software Inventory

Customer Org	Application Name	Acronym	Version	Life Cycle	Application Size	FIPS 199	Number of Accounts Range	Technology - Server OS	Technology - Database	Technolog MiddleWa
AC / IA	JSC Metrics - Production 1	N/A	1.0	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
AC	Export Control Database	N/A	N/A	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	ColdFusion
AC	JSC Facilities Review Database	JFReD	1.0	Operational	XS (extra small)	Low	21 - 100	Windows	SQL Server	ASP
AK / IA	Trackwise/QPID (AK) / CM & Meeting Support Tool (IA Boards)	QPID	1.0	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	COTS
AD	Space Flight Awareness (SFA)	SFA	2.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
AD	Space Shuttle Book	N/A	1.1.1	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ColdFusion
AD	University Research	URAO	2.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
AD	URAO Biennial Research Report Submission Application	N/A	2.0	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ColdFusion
AF	Advance Planning Office	AF	2.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
AF	AT Space Act Agreement Partnership Database	ATDB	1.1	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ColdFusion
AF2	Technology Transfer - migrating to SharePoint	N/A	4.0	Operational	S (small)	Low	> 1000	Windows	SQL Server	SharePoint
AG	Export Control Web Site	none	N/A	Operational	S (small)	Low	21 - 100	Windows	None	HTML
AH	NASA Employee Profile System	NEPS	1	Operational	XL (extra large)	Moderate	> 1000	Windows	SQL Server	ColdFusion
AH	NASA Organizational Profile System	NOPS	1.27.0	Operational	M (medium)	Low	> 1000	Windows	SQL Server	ColdFusion
AH	NASA Workforce Transformation Tracking System	WTTS	1	Operational	M (medium)	Moderate	> 1000	Windows	SQL Server	ColdFusion
AJ	Equal Opportunity and Diversity Management Programs Office	EOPO	2.1.0.0	Operational	XS (extra small)	Low	> 1000	Windows	SQL Server	ColdFusion
AK	JSC Lessons Learned Database	N/A	N/A	Operational	M (medium)	Low	<= 20	Windows	SQL Server	Cold Fusion
AL	JSC Legal Office Web Site	N/A	N/A	Operational	S (small)	Low	< =20	Windows	SQL Server	SharePoint
AP	Community and Government Relations Office	CGRO	1.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
AP	Media Resource Center Catalog	MRCC	1.0.0	Operational	S (small)	Low	<= 20	Unix	flat files	Perl
AP	Open House	N/A	1.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
AP	PAO Internal Web Site	N/A	N/A	Operational	S (small)	Low	<= 20	Windows	No database	No middleware
AP	Visual Communication Lab (VCL) Web Site	VCL	1.0.1	Operational	S (small)	Low	<= 20	Unix	Oracle	ColdFusion
BA	Space Program Integrated Contract Environment (SPICE)	SPICE	5.2	Operational	L (Large)	Moderate	> 1000	Windows	SQL Server	ColdFusion
IS	NASA Supply Management System	NSMS	8.8.1	Operational	L (Large)	Low	101 - 500	IBM z/OS	ADABAS	Natural
EA	Action Item Database	AIDB	1	Operational	M (medium)	Low	501 - 1000	Windows	SQL Server	ASP

Customer Org	Application Name	Acronym	Version	Life Cycle	Application Size	FIPS 199	Number of Accounts Range	Technology - Server OS	Technology - Database	Technolo MiddleW
EA	JSC Design & Data Management System	DDMS	N2.0.0.0.61	Operational	L (Large)	Moderate	> 1000	Unix, Windows	Oracle	Java, PTC C
EA	DOORS	DOORS	8.2	Operational	M (medium)	Moderate	101 - 500	Windows	SQL Server	COTS
EA	e-ITA System	ITA	7	Operational	L (Large)	Low	101 - 500	Windows	SQL Server	FileNet, ColdFusion
EA	Engineering Drawing Review System	EDRS	1.0.00.14	Operational	L (Large)	Moderate	> 1000	Unix	Oracle	ColdFusion, I
EA	Engineering Events Calendar	EVE	1	Operational	M (medium)	Low	501 - 1000	Windows	SQL Server	ColdFusion
EA	Transaction Tracking System	TTS	N/A	Operational	M (medium)	Low	501 - 1000	Windows	SQL Server	ColdFusion
EOC	Active Identity	N/A	6.00.00069	Operational	Large	Moderate	>20	Windows XP	N/A	COTS
EOC	AniAli	AniAli	NA	Operational	Small	Moderate	<20	Windows XP	N/A	C++
EOC	AtHoc	SyREN	V6.1	Operational	Medium	Moderate	>10000	Windows XP	SQL	COTS
EOC	Aware	N/A	1.0.2711.24356	Operational	Large	Moderate	>20	Windows XP	N/A	COTS
EOC	Centracom	N/A	10.00.05	Operational	Medium	Moderate	<20	Windows XP	N/A	COTS
EOC	Codi Video Encoder	VMI	NA	Operational	Medium	Moderate	<20	Windows XP	N/A	COTS
EOC	Identix Fingerprint Scanner	N/A	2.0.13.63	Operational	Small	Moderate	>20	Windows XP	N/A	COTS
EOC	Intergraph	ICAD	07.09.05.02	Operational	Large	Moderate	<20	Windows XP	N/A	COTS
EOC	Lenel/Common Badging Access control System	CBACS	5.11.216	Operational	Large	High	>150	Windows XP	Oracle 10g	COTS
EOC	Low Power AM Transmitter	N/A	1.0.44	Operational	Medium	Moderate	<20	Windows XP	N/A	COTS
EOC	NICE VLR (NICE Voice Logging Recorder)	NICE VLR	8.9.1.53	Operational	Large	Moderate	<20	Windows XP	N/A	COTS
EOC	Top Most Clock	N/A	TBI	Operational	Small	Low	<20	Windows XP	SQL	COTS
EOC	Weather Logger	N/A	1.3	Operational	Medium	Low	<20	Windows XP	N/A	COTS
IA	Acronym Central	N/A	2.0.4.5	Operational	S (small)	Low	<=5	Windows	SQL Server	ColdFusion
IA	Ask A Librarian	N/A	1.0.0	Operational	XS (extra small)	Low	<=5	Windows	SQL Server	ColdFusion
IA	BMC Bladelogic Operations Manager	N/A	TBI	Operational	Medium	Moderate	<= 20	Windows	SQL Server	COTS
IA	Cisco Videoconference Bridge	IPVC	TBI	Pre-release	S (small)	Low	<= 20	Cisco	COTS	COTS
IA	Ciscoworks	CW	TBI	Operational	S (small)	Moderate	<= 20	Windows	COTS	COTS
IA	Customer Profile Management System	CPMS	TBI	Operational		Low	> 1000	Windows	SQL Server	ASP
IA	Datamart	N/A	2.0	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	Digital Image Collection (DIC)	DIC	1.0	Operational	S (small)	Low	<= 20	Unix	Oracle	TBI
IA	Digital Imagery Management System (DIMS)	DIMS	4.7.1	Operational	Custom Built	Low	101 - 500	Unix	Oracle	ColdFusion, Per
IA	Document Index System	DIS	2.0.2	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion / MS Access
IA	Engineering Drawing Control Center	EDCC	1.0.00.14	Operational	L (Large)	Moderate	> 1000	Unix	Oracle	ColdFusion, Perl
IA	Forms	eForms	4.2	Operational	M (medium)	Low	<= 20	Windows	SQL	FileNet Desktop eForms
IA	Forms Catalog	Forms	1.0	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion

Customer Org	Application Name	Acronym	Version	Life Cycle	Application Size	FIPS 199	Number of Accounts Range	Technology - Server OS	Technology - Database	Techno Middle
IA	GroupSystems		2.0	Operational	S (small)	Low	<= 20	Windows	COTS	COTS
IA	Guest Network Administration System	GNARS	1.1.1	Operational	S (small)	Moderate	<= 20	Windows	SQL Server	ColdFusion
IA	HP Open View	HPOV	TBI	Operational	S (small)	Moderate	<= 20	COTS	COTS	COTS
IA	Imagery Online	IO	1.4	Operational	M (medium)	Moderate	101 - 500	Unix	Oracle	ColdFusion
IA	Inquisite Survey Tool	N/A	8.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	COTS
IA	Internal JSC Homepage	www6	3.15	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	ColdFusion
IA	International Space Station and Space Shuttle Video Asset Management System (VAMS)	VAMS	4.4	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ASP
IA	IRD Customer Service System	CSS	3.1.2	Operational	L (Large)	Moderate	101 - 500	Windows	SQL Server	ColdFusion
IA	IRD Home Page	IRD	3.0.1	Operational	M (medium)	Low	101 - 500	Windows	SQL Server	SharePoint
IA	IRD Metrics	N/A	1.0	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ColdFusion
IA	IRD network monitor development system	N/A	TBI	Operational	S (small)	Low	<= 20	Linux	COTS	COTS
IA	IRD network monitoring	N/A	TBI	Operational	S (small)	Low	<= 20	Linux	COTS	COTS
IA	IRD Suggestion Box	IRD Suggestion Box	1.0	Pre-release	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	IT Inventory Database (Formerly the Maintenance Database)	ITIDB	2.0.1.2	Operational	S (small)	Low	101 - 500	Windows	SQL Server	ColdFusion
IA	IT Security Application	ITSA	N/A	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JIMMS Task Order Proposal System	JTOPS	1.4	Operational	M (medium)	Moderate	21 - 100	Windows	SQL Server	ColdFusion
IA	Joint Leadship Team	JLT	2.0.3	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC 90-Day Report	N/A	1.0	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ColdFusion
IA	JSC Action Tracking System (JATS)	JATS	2.2.2	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC Bulletin Board System	BBS	1.3	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC Diversity Council	N/A	1.1.1	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC Emergency Awarness	JEA	1.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC History Database	N/A	2.0	Operational	S (small)	Low	> 1000	Windows	SQL Server	ColdFusion
IA	JSC Image Acquisition Group	N/A	1.0	Operational	M (medium)	Low	<= 20	Unix	Oracle	ColdFusion
IA	JSC Knowledge Online	JKO	1.0	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC Management Council	JMC	1.5.1	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	ColdFusion

Customer Org	Application Name	Acronym	Version	Life Cycle	Application Size	FIPS 199	Number of Accounts Range	Technology - Server OS	Technology - Database	Technolo MiddleW
IA	JSC Management Information System SQL (Personnel)	JSCMIS SQL	1.3	Operational	M (medium)	Moderate	21 - 100	Windows	SQL Server	MS Access F End (on user workstations)
IA	JSC Organization List	OrgList	2.0.1.2	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC Phone Directory	N/A	1.5	Operational	M (medium)	Moderate	<= 20	Unix	N/A	Perl
IA	JSC Safety Action Team	JSAT	1.0.3.7	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	JSC Search	JS	6.1	Operational	M (medium)	Low	<= 20	Google	COTS	COTS
IA	JSC Virtual Private Network	JSC VPN	5.4	Operational	S (small)	Moderate	<= 20	Juniper Appliance	COTS	COTS
IA	Lift Machine	Lift	1.7	To be replaced w/ new COTS	M (medium)	Low	21 - 100	Unix	COTS	COTS
IA	Lunar Lander Project Office Events	LLPO	1.0	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	Management Information System for the STIC (Scientific Technical Information Center)	MISSTIC	1.0	Operational	S (small)	Low	<= 20	Windows	Access	none
IA	Motion Picture Film Database	N/A	1.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	NASA Application Tracking Tool	NATT	1.6.8	Operational	M (medium)	Moderate	501 - 1000	Windows	SQL Server	ColdFusion
IA	NetIQ AppManager	N/A	TBI	Operational	S (small)	Low	<= 20	Windows	SQL Server	COTS
IA	Niksun1	N/A	TBI	Operational	S (small)	Moderate	<= 20	Unix	COTS	COTS
IA	Niksun2	N/A	TBI	Operational	S (small)	Moderate	<= 20	Unix	COTS	COTS
IA	PatchLink Update Server	N/A	TBI	Operational	M (medium)	Moderate	<= 20	Windows	SQL Server	COTS
IA	Presidential Management Agenda - Production	PMA	TBI	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	Quality Management System (QMS)- UNIX	QMS-UNIX	1.0.1.6	Operational	M (medium)	Low	<= 20	Unix	Oracle	Perl
IA	Remedy Help Desk	N/A	7.0	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	COTS
IA	Security Data Warehouse	SDW	TBI	Operational	L (Large)	Moderate	21 - 100	Linux	MySQL	Perl
IA	Senior Staff Resources	N/A	1	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
IA	Solarwinds	N/A	TBI	Operational	S (small)	Low	<= 20	Windows	SQL Server	COTS
IA	STI Center Homepage	STIC	2.0	Operational	M (medium)	Low	<= 20	Unix	Access	Perl
IA	STS 107 Archive	N/A	1.0.2	Operational	S (small)	Moderate	501 - 1000	Windows	SQL Server	ColdFusion
IA	Technical Reports Server (TRS)	TRS	1	Operational	S (small)	Low	<= 20	Unix	TBI	Perl, CGI
IA	Urchin Web Statistics	Webstats	5.7.03	Operational	M (medium)	Low	21 - 100	Unix	COTS	TBI
IA	VBrick IPTV Web Interface	N/A	TBI	Pre-release	S (small)	Low	<= 20	Windows	COTS	COTS
IA	Vehicle Integration & Test Office Imagery	VITO	1	Operational	M (medium)	Low	<= 20	Unix	Oracle	ColdFusion, Per
IA	Video Operations Scheduler (VOS)	VOS	2.0	Operational	S (small)	Moderate	<= 20	Windows	SQL Server	ASP

Customer Org	Application Name	Acronym	Version	Life Cycle	Application Size	FIPS 199	Number of Accounts Range	Technology - Server OS	Technology - Database	Technolo MiddleW
IA	Video Repository Database System	VRDS	1.1	Operational	M (medium)	Low	<= 20	Unix	Oracle	ColdFusion
IA	Video Repository Home Page	Video Repository	1.0	Operational	M (medium)	Moderate	<= 20	Unix	Oracle	ColdFusion
IA	Zero Gravity Experiments	Zero Gravity Experim	1.1.2	Operational	S (small)	Low	501 - 1000	Unix	Oracle	Perl
IS	IEM Business Warehouse	IEM BW	TBI	Operational	XL (extra large)	Moderate	> 1000	Unix	Oracle	COTS
IS	IEM Web Based Time Attendance and Distribution System	IEM WebTADS	TBI	Operational	L (large)	No	> 1000	Linux	Oracle	Java
IS	NASA Equipment Management System (Core)	NEMS	6.12	Operational	M (medium)	Low	> 1000	IBM z/OS	ADABAS	Natural
IS	NASA Information Center	NIC	6.6.4.50	Operational	XS (extra small)	Low	101 - 500	Windows	SQL Server	
IS	NASA Property Disposal System (Core)	NPDMS	4.12	Operational	M (medium)	Low	101 - 500	IBM z/OS	ADABAS	Natural
IS	NASA Supply Management System (Core)	NSMS	8.8.1	Operational	L (large)	Low	101 - 500	IBM z/OS	ADABAS	Natural
JA	CenterOps Facility Operations Construction Status	CenterOps FOCuS	1.1	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
JA	CenterOps Polling System	CPS	1.1	Operational	S (small)	Low	<= 20	Windows	SQL Server	ColdFusion
JA	Close Call Action Log Form	CCALF	1.0.6	Operational	M (medium)	Low	> 1000	Windows	SQL Server	ColdFusion
JA	Computerized Maintenance Management System - Maximo	CMMS	6.2.1	Operational	M (medium)	Low	501 - 1000	Windows	SQL Server	COTS
JA	Continuous Emissions Monitoring System	CEMS	TBI	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ASP
JA	Enterprise Building Integration	Ebi	R310.1	Operational	S (small)	Low	21-100	Windows	SQL Server	COTS
JA	Employee - Contractor Badge System	none	N/A	Operational	S (small)	Moderate	21 - 100	Windows	SQL Server	ColdFusion
JA	Energy Management Control System	EMCS	N/A	Operational	M (medium)	Low	<= 20	Hardware	Hardware	Hardware
JA	Environmental Management System Impacts Database	EMS	2.0	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	ColdFusion
JA	Facility CAD System	N/A		Operational	M (medium)	Low	21 - 100	Mainframe	Mainframe	Mainframe
JA	Facility Description System	FDS	N/A	Operational	S (small)	Moderate	21 - 100	Windows	SQL Server	ColdFusion
JA	JSC Outbound Freight Log System	JOFLS	N/A	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	ColdFusion
JA	Local Stock Number Log	LSNL	N/A	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
JA	Logistics Supply Database	none	N/A	Operational	M (medium)	Low	<= 20	Windows	SQL Server	ColdFusion
JA	Official Visitor Badging System	none	N/A	Operational	S (small)	Moderate	101 - 500	Windows	SQL Server	ColdFusion
JA	Personal Reliability Program	PRP	N/A	Operational	S (small)	Moderate	21 - 100	Windows	SQL Server	ASP
JA	PIV Scheduling Tool	PIVS	1.0	Operational	M (medium)	Moderate	> 1000	Windows	SQL Server	

Customer Org	Application Name	Acronym	Version	Life Cycle	Application Size	FIPS 199	Number of Accounts Range	Technology - Server OS	Technology - Database	Technolo MiddleW
JA	Property Custodian Database	none	N/A	Operational	S (small)	Low	<= 20	Windows	SQL Server	ASP
JA	Real Property Accounting System	RPAS	TBI	Operational	S (small)	TBI	TBI	TBI	TBI	TBI
JA	Security Barcode Scanner	none	N/A	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	ColdFusion
JA	Security Operations System	SOS	N/A	Operational	S (small)	Moderate	21 - 100	Windows	SQL Server	ColdFusion
JA	Survey Report Log--Missing & Lost Report Database	none	N/A	Operational	M (medium)	Low	101 - 500	Windows	SQL Server	ColdFusion
JA	SyREN	SyREN	TBI	Operational	M (medium)	Moderate	21 - 100	Windows	SQL Server	COTS
JA	Transportation Inbound Freight Log	TIFL	2.0	Operational	M (medium)	Low	21 - 100	Windows	SQL Server	ColdFusion
JA	Unsolicited Contacts	UC	1.1	Operational	S (small)	Moderate	21 - 100	Windows	SQL Server	ColdFusion
JA	Web Control	WebCtrl	4	Operational	M (medium)	Low	<= 20	Windows	SQL Server	COTS
JB	NSMS/NEMS/MPDMS Data Archive Warehouse	N/A	TBI	Operational	TBI	Low	21-100	Windows	Oracle	Hperion
LA	G&A and Service Pool Trace System (TRACE) - TRACE is a module within IBOT (Integrated Budget Office Toolbox)	TRACE	3.0	Operational	TBI	Low	101 - 500	Windows	SQL Server	ASP
LA	Integrated Budget Office Toolbox	IBOT	3.0	Operational	TBI	Low	101 - 500	Windows	SQL Server	ASP
LF	Archived Time and Labor Collection (TLC) reports - This is redundant data for research only.	TLC	TBI	Limited Operation	TBI	Low	5	Windows	SQL Server	Hyperion
LF	Pay/Labor Data Warehouse - This data has been archived to disk. There has been no request to restore the data in the past two years. We are reviewing records retention schedules to determine when this can be destroyed.		TBI	Operational	TBI					
LF	Property Accounting Tracking System The application sits on the desktop with a pointer to the SQL Server for the data.	PATS	TBI	Operational	TBI	Low	5	TBI	SQL Server	TBI
LZ	Constellation Integrated Resource Reporting	CIRR	3.3	Operational	TBI	Low	100-500	Windows	SQL Server	ASP
RA	Material and Components Test (MCT) information management system	MCT	1.X	Operational	small	Low	21-100	Windows	Oracle	TBI
RA	MSDS and Chemical Inventory Database	WBS	1.X	Operational	small	Low	500-1000	Unix	Oracle	TBI
RA	Oracle Financials	WBS	1.X	Operational	medium	Low	500-1000	Unix	Oracle	TBI
RA	Quality Document Database	WBS	1.X	Operational	small	Low	200-500	Unix	Oracle	TBI
RA	Safety Inspection Management System	SIMS	N/A	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ASP
RA	White Sands Test Facility Management System Manual	MSM	2	Operational	S (small)	Low	<= 20	Windows	SQL Server	ASP
RA	WSTF Document Search	none	1	Operational	S (small)	Low	<= 20	Windows	SQL Server	ASP
RA	WSTF Emergency Assembly Area	EAA	1	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ColdFusion

Customer Org	Application Name	Acronym	Version	Life Cycle	Application Size	FIPS 199	Number of Accounts Range	Technology - Server OS	Technology - Database	Technology MiddleWar
RA	WSTF Internal Web	none	2	Operational	S (small)	Low	501 - 1000	Windows	SQL Server	ASP
RA	WSTF Media Search	none	1.0	Operational	S (small)	Low	<= 20	Windows	SQL Server	ASP
RA	WSTF Oracle Supply System (-> NSMS)	WBS	1.X	Operational	small	Low	21-100	Unix	Oracle	TBI
RA	WSTF Phone Directory	none	1.0	Operational	S (small)	Low	21 - 100	Windows	SQL Server	ASP
RA	WSTF Training Database (-> SATERN)	WBS	1.X	Operational	small	Low	500-1000	Unix	Oracle	TBI
SSC	Emergency Contact Data System	ECDS	N/A	Operational	TBI	No	<= 20	Windows	Oracle	ASP
ZA	Content Management System	NICE	N/A	Conceptual	M (medium)	Medium	>100	Windows XP	SQL	COTS

Note: This inventory is derived from the NASA Application Tracking Tool (NATT). NATT is an agency-wide tool that collects and reports application meta-data to support application integration into the Agency Logical Access Management infrastructure. This list represents those applications maintained by the Information Resources Directorate (IRD) as of October 2009 and is subject to change. The Contractor shall support all software included in the NATT. This inventory will be updated at contract start and quarterly thereafter.

Attachment J-12
Contract Labor Categories

CONTRACT LABOR CATEGORY	GUIDELINES
Administrative Assistant	Supports Program Manager/Project Manager/project staff; prepares correspondence, schedules and coordinates travel or events. May assist in the preparation and integration of presentation graphics and other materials. May support the development of contract deliverables and reports. Performs data entry and verifies data entered, where applicable. May support external customers (e.g. educators and news media).
Administrative Specialist I (WSTF)	Responsible for performing daily office tasks such as filing, recording, maintaining records, copying, posting, and other similar duties, using a computer terminal, typewriter, and other word processors. Follows organization and department procedures to complete tasks in a timely manner. Typically requires a high school diploma or its equivalent with at least 1 year of work experience. Familiar with standard concepts, practices, and procedures within a particular field. Performs a variety of tasks. Works under general supervision; typically reports to a supervisor or manager.
Administrative Specialist II (WSTF)	Responsible for performing daily office deliveries such as filing, recording, maintaining records, copying, posting, and other similar duties, using a computer terminal, typewriter, and other word processors. Follows organization and department procedures to complete deliveries in a highly skilled and timely manner. Typically requires a high school diploma or its equivalent and a minimum of 4 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of deliveries. Works under general supervision; typically reports to a supervisor or manager.
Animation Specialist	Creates digital animation for video and various digital media using computer-based animation and modeling software. Manipulates models for three-dimensional animated graphics. Works with a variety of computer platforms and software packages. Coordinates with video and multimedia producers and product designers. Often works to tight deadlines and interacts directly with clients to adjust product to specific needs. Bachelor's degree in a related field preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Broadcast Engineer	Designs, builds, integrates and maintains broadcast systems for television and video production. Responsible for overall technical operation and maintenance of equipment supporting live broadcast television including studio programming, live interviews with remote locations via satellite, live briefings, live to tape events and video production systems. A four-year degree in broadcast engineering or equivilent and at least five years experience is preferred.
Business Specialist I (WSTF)	Prepares contract proposals and administers major contracts and delivery orders. Also may negotiate contractual provisions with potential partners. Typically requires a bachelor's degree in a related area and normally possess 3 years of work experience. Has knowledge of standard concepts, practices, and procedures within the Business field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of deliveries. Works under general supervision; typically reports to a manager.
Business Specialist II (WSTF)	Coordinates and monitors the scheduling, pricing, and technical performance of programs. Responsibilities also include aiding in the negotiation of contracts and contractual changes and coordinating preparations of proposals, plans, specifications, and financial conditions of contracts. Ensures adherence to master plans and schedules and develops solutions to program problems. Typically requires a bachelor's degree and a minimum of 5 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of complex deliveries. A certain degree of creativity and latitude is required. Typically reports to a manager or program manager. May direct the efforts of others.
Camera Operator	Operates cameras, studio cameras, video switchers, audio mixers, disk-based file servers, broadcasting or video recording cameras, and equipment used in live and taped media programming. May be expected to maintain a variety of program/ production logs. Associates degree or its equivalent with at least 3 years of experience preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Clerk	Performs routine clerical work in office or warehouse operations. Answers the telephone and refers calls to appropriate personnel based on specific name or functional area request. Relays simple information when no subject matter knowledge is involved. May provide callers with standard, prescribed responses. Processes incoming mail. Picks up and delivers mail as instructed. Operates office machines such as office copiers and fax machines. Assembles copies of correspondence as instructed. Obtains office supplies from the supply room as directed. May prepare reports, orders and materials for shipment.
Configuration Management Specialist	Responsible for configuration management planning. Describes provisions for configuration identification, change control, configuration status accounting and configuration audits. Responsible for configuration planning. Identifies and maintains the original configuration of requirements documentation, design documentation, and related documentation. Responsible for configuration change control. Regulates the change process so that only approved and validated changes are incorporated into product documents. Responsible for configuration status accounting. Tracks all problems and changes in product documents and reports changes and current configuration. Responsible for configuration audits. Supports audits to verify that requirements of all baselines have been met. Supports quality assurance process audits.
Contract Administrator	Aids in the preparation of contractual provisions and the administration of contract proposals. May also provide other procurement related support. A Bachelor's degree and at least 2 years of experience in the field or in a related area is preferred.
Database Administrator	Administers, maintains, develops and implements policies and procedures for ensuring the security and database integrity. Implements data models and database designs, data access and table maintenance codes; resolves database performance issues, database capacity issues, replication, and other distributed data issues. Writes code for database access, modifications and constructions including stored procedures. Bachelor's degree in a related area and at least 3 years of experience in the field or in a related area preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Deputy Program Manager	Serves as the Contractor's second line contract manager, and in the absence of the Program Manager shall be the contractor's authorized interface with the Government Contracting Officer (CO), the contract level Contracting Officer's Technical Representative (COTR), government management personnel and customer agency representatives. Bachelor's degree in related field and at least 5 years of supervisory experience preferred. Responsible for formulating and enforcing work standards, assigning contractor schedules, reviewing work discrepancies, supervising contractor personnel and communicating policies, purposes, and goals of the organization to subordinates.
Designer I - Web	Produces graphic sketches, designs, and copy layouts for online content. Determines size and arrangement of illustrative material and copy, selects style and size of type, and arranges layout based upon available space, knowledge of layout principles, and aesthetic design concepts. Associate's degree or its equivalent with at least 3 years of experience in the field or in a related area preferred.
Designer II - Web	Produces graphic sketches, develops and designs layouts for online content. Determines size and arrangement of illustrative material and copy, selects style and size of type, and arranges layout based upon available space, knowledge of layout principles, and aesthetic design concepts. Works with production development team to design and evaluate visual human interfaces utilizing user-centered design principles. Bachelor's degree or equivalent and at least 3 years of experience in the field or in a related area preferred.
Digital Video Engineer	Provides expert forward planning, management, consultation, installation and maintenance for the design, development and implementation of highly technical audiovisual broadcast digital equipment and systems. Recognized as technical leader and primary digital resource. Responsible for all digital internal activities and equipment/product planning and development. Masters Degree and at least ten years direct technical experience in the digital Audiovisual/Broadcast area is required. AVID System certification as Systems Administrator and AVID 3rd level technical training is required. Leads and directs the work of others.

CONTRACT LABOR CATEGORY	GUIDELINES
Document Scanner I	Provides setup and operation of various types of document and microform scanning. Conducts initial setup procedures including quality control testing prior to running production. Prepares media to be scanned and performs the scanning process. Is responsible for quality control of scanning process and the quality assurance of the final product.
Document Scanner II	Provides setup and operation of various types of document and microform scanning. Conducts initial setup procedures including quality control testing prior to running production. Prepares media to be scanned and performs the scanning process. Responsible for quality control of scanning process and the quality assurance of the final product. At least 2 years of experience is preferred.
Drafter I	Responsible for creating drawings and associated databases that are used in instructions to build or modify systems, and document the as-built final configuration. Typical drawings include block diagrams, wiring diagrams, flow diagrams, and physical layouts with cross references to related system drawings and databases such as wiring, software or equipment lists. Production of drawings would be derived from sketches provided by Engineers or Technicians. Associate's degree in a related area in computer based drafting preferred.
Drafter II	Creates drawings and associated databases that are used in instructions to build or modify systems, and document the as-built final configuration. Typical drawings include block diagrams, wiring diagrams, flow diagrams, and physical layouts with cross references to related system drawings and databases such as wiring, software or equipment lists. Production of drawings would be derived from sketches provided by Engineers or Technicians. Associate's degree in a related area and at least 4 years of experience in computer based drafting preferred.
Editor	Writes, edits, proofreads, and copyedits a variety of documents. Plans and prepares stories for online dissemination. Prepares articles from knowledge of topic and editorial position of publication, supplemented by additional study and research. A Bachelor's degree in a related area and at least 2 years of experience in the field or in a related area preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Education Coordinator	Coordinates or develops education training programs. Arranges education workshops and coordinates tours. Bachelor's degree in education or a related area preferred.
E-Learning Lead	Coordinates and ensures the production of distance learning activities including the instructional design, coordination with customers, overall production activities, and the coordination of the maintenance of NISN equipment with Marshall Space Flight Center personnel based on established quality and schedule guidelines and priorities. A Bachelor's Degree in the core activity or similar field with at least 2 years experience is preferred. Review customer orders and work tickets and establish priorities for completion of work based on established guidelines. Provide point of contact support for supply orders and all equipment maintenance. Provide quality control over core area processes and final products. Ensure the preparation and timely submission of reports, procedures, timesheets and other documentation required.
Engineer I (JSC & WSTF)	Provides analysis related to the design, development, and implementation of hardware for products. Develops test strategies, devices, and systems. Bachelor's degree in area of specialty preferred.
Engineer II (JSC & WSTF)	Provides analysis related to the design, development, and implementation of hardware for products. Develops test strategies, devices, and systems. Bachelor's degree and at least 5 years of experience in the field or in a related area preferred. May lead and direct the work of others.

CONTRACT LABOR CATEGORY	GUIDELINES
Engineer III (JSC & WSTF)	Provides expert consultation in one or more areas for the design, development and implementation of technical products and systems. Recognized as technical leader and resource. Responsible for all internal activities and product development.
Engineering Tech I	Installs, configures, operates and maintains a variety of equipment, which may include complex audio control devices. May perform a variety of duties associated with control and distribution of audio. Associate's degree preferred.
Engineering Tech II	Installs, configures, operates and maintains a variety of equipment, which may include complex audio control devices. May perform a variety of duties associated with control and distribution of audio. Associate's degree with at least 2 years of experience in the field preferred.
Engineering Tech III	Installs and performs maintenance on equipment. Associate's degree with at least 5 years of experience in the field preferred. Familiar with a variety of the field's concepts, practices, and procedures. May direct and lead the work of others.
Exhibits Foreman	Oversees work in the exhibits shop including design, production, equipment maintenance and operation, materials acquisition and storage, personnel scheduling and supervision and other aspects of shop operations. As a member of the exhibits fabrication and maintenance staff, will also be knowledgeable in the operation and care of equipment in the shop. Has overall responsibility for shop safety.

CONTRACT LABOR CATEGORY	GUIDELINES
Exhibits Specialist	Builds and maintains exhibits according to designs provided. Operates a variety of fabricating equipment for wood, metal, plastic and composite materials. Requires skills in the use of shop equipment and knowledge of applicable safety practices. Three years experience in applicable field preferred.
Forms Designer	Defines the organization and visual elements for new and revised hardcopy and electronic forms. Creates and maintains electronic forms templates. Associate's degree in a related area with at least 3 years of work experience preferred.
Graphic Designer	Uses computer graphic systems to produce graphic sketches, designs, and copy layouts. An Associate's degree or Technical degree or its equivalent preferred. Familiar with standard concepts, practices, and procedures within the Graphics Design field.
Graphics Design Specialist / Illustrator	Uses computer graphic systems to produce graphic sketches, designs, and copy layouts and experience with multi-media design illustration. Bachelor's degree and at least 5 years of experience in the field or in a related area preferred. May direct and lead the work of others.
Help Desk Support I	Provides support to end users on a variety of issues. Identifies, researches, and resolves technical problems. Responds to telephone calls, email and personnel requests for technical support. Tracks and monitors the problem to insure a timely resolution. Associate's degree in a related area preferred. Primary job functions require excellent written and oral communications skills.

CONTRACT LABOR CATEGORY	GUIDELINES
Help Desk Support II	Provides support to end users on a variety of issues. Identifies, researches, and resolves technical problems. Responds to telephone calls, email and personnel requests for technical support. Tracks and monitors the problem to insure a timely resolution. Associate's degree in a related area and at least 3 years of experience in the field or in a related area preferred. Primary job functions require excellent written and oral communications skills. May lead and direct the work of others.
Historian	Serves as primary point of contact and coordination for history related matters. Provides coordination and oversight for the Oral History program, including reviewing and recommending interview candidates, and integrating the activities of History Intern researchers with Oral History production activities. Provides coordination and operational support for the JSC/UHCL History Archive partnership. Supports community outreach activities for the JSC History Program. Supports the identification and development of new historical materials. Provides inputs to planning and budgeting activities. A Master's degree or higher, and at least 5 years of experience in the field or in a related area preferred. May lead and direct the work of others.
Imaging Specialist I	Uses various forms of still and motion imagery as a source, produce imaging products such as film duplicates, videotapes, DVDs, CDs, digital files, prints, slides, overheads. The final products will require preparation to meet customers requirements for quality. Checks imaging equipment for imperfections and faults. Associate's degree in the field or in a related area preferred.
Imaging Specialist II	Uses various forms of still and motion imagery as a source, produce imaging products such as film duplicates, videotapes, DVDs, CDs, digital files, prints, slides, overheads. The final products will require preparation to meet customers requirements for quality. Checks imaging equipment for imperfections and faults. Associate's degree with at least 3 years of experience in the field or in a related area preferred.
Imaging Specialist III	Uses various forms of still and motion imagery as a source, produce imaging products such as film duplicates, videotapes, DVDs, CDs, digital files, prints, slides, overheads. The final products will require preparation to meet customers requirements for quality. Checks imaging equipment for imperfections and faults. Bachelor's degree with at least 5 years of experience in the field or in a related area preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Information Engineer	Applies business process improvement practices to re-engineer methodologies/principles and business process modernization projects. Applies as appropriate, activity and data modeling, transaction flow analysis, internal control and risk analysis and modern business methods and performance measurement techniques. Assist in establishing standards for information systems procedures. Develops and applies organization-wide information models for use in designing and building integrated, shared software and database management systems. Constructs business improvement opportunities consistent with corporate information management guiding principles, cost savings, and open system architecture objectives. Bachelor's degree in a related area with at least 2 years of work experience preferred.
IT Professional I (JSC & WSTF)	Analyzes, develops configuration, provides recommendations for the design, installation and configuratior of servers, storage devices and other IT components. Installs, configures, operates, maintains and administers items such as file servers, print servers, KVM switches, SANs, switches, operating systems, middleware software and various other IT hardware and software components. Typically requires a bachelor's degree in a related area or experience in the field. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision and reports to a supervisor or manager.
IT Professional II (JSC & WSTF)	Analyzes, develops configuration, provides recommendations for the design, installation and configuration of servers, storage devices and other IT components. Installs, configures, operates, maintains and administers items such as file servers, print servers, KVM switches, SANs, switches, operating systems, middleware software and various other IT hardware and software components. Typically requires a bachelor's degree in a related area and a minimum of 3 years of experience in the field or in a related area. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions and pre-established guidelines to perform the functions of the job. Works under immediate supervision and reports to a supervisor or manager.

CONTRACT LABOR CATEGORY	GUIDELINES
IT Professional III (JSC & WSTF)	Analyzes, develops configuration, provides recommendations for the design, installation and configuratio of servers, storage devices and other IT components. Installs, configures, operates, maintains and administers items such as file servers, print servers, KVM switches, SANs, switches, operating systems, middleware software and various other IT hardware and software components. Typically requires a bachelor's degree in a related area and normally possess 5 years of experience in the field or in a related area. Relies on experience and judgment to plan and accomplish goals. Performs a variety of deliveries. Works under general supervision; typically reports to a supervisor or manager. May direct the efforts of others.
IT Professional IV	Analyzes, develops configuration, provides recommendations for the design, installation and configuratior of servers, storage devices and other IT components. Develop project plans and reports the status. Typically requires a bachelor's degree in a related area and normally possess 10 years of experience in the field or in a related area. Relies on extensive experience and judgment to plan and accomplish goals. Responsible for the solution of complex total systems problems. Directs guides and coordinates activities of a team/teams of technical personnel performing complex engineering activities. Typically reports to top management.
IT Professional V	Analyzes, develops configuration, provides recommendations for the design, installation and configuration of servers, storage devices and other IT components. Develop project plans and reports the status. Typically requires a master's degree in a specialty and normally possess 15 years of experience in the field or in a related area. Relies on extensive experience and judgment to plan and accomplish goals. Responsible for the solution of complex total systems problems. Directs guides and coordinates activities of a team/teams of technical personnel performing complex engineering activities. Typically reports to top management.
IT Technician I (JSC & WSTF)	Installs, configures, operates, maintains and administers items such as file servers, print servers, KVM switches, SANs, switches, operating systems, middleware software and various other IT hardware and software components. Typically requires a high school degree or its equivalent. Has knowledge of commonly used concepts, practices, and procedures within a particular field. Relies on instructions to perform the functions of the job. Works under immediate supervision. Typically reports to a supervisor or manager.

CONTRACT LABOR CATEGORY	GUIDELINES
IT Technician II (JSC & WSTF)	Installs, configures, operates, maintains and administers items such as file servers, print servers, KVM switches, SANs, switches, operating systems, middleware software and various other IT hardware and software components. Typically requires a high school degree or its equivalent and a minimum of 4 years of experience in the field or in a related area. Proficient in the use of standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of deliveries. Works under minimal supervision. Typically reports to a supervisor or manager.
IT Technician III (JSC & WSTF)	Installs, configures, operates, maintains and administers items such as file servers, print servers, KVM switches, SANs, switches, operating systems, middleware software and various other IT hardware and software components. Typically requires a high school degree or its equivalent and normally possess 12 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field. Relies on experience and judgment to plan and accomplish goals. Performs a variety of deliveries. Performs highly skilled work at the advanced level. May instruct, lead and direct the work of others. Typically reports to a supervisor or manager.
Librarian/Researcher I	Maintains library collections of books, serial publications, documents, audiovisual, Multimedia, and other materials, and assists groups and individuals in locating and obtaining materials. Furnishes information on library activities, facilities, rules, and services. Conducts research activities in a library. Processes requests for research information and compiles information on related topics. A Master's degree in library science preferred.
Librarian/Researcher II	Maintains library collections of books, serial publications, documents, audiovisual, Multimedia, and other materials, and assists groups and individuals in locating and obtaining materials. Furnishes information on library activities, facilities, rules, and services. Conducts research activities in a library. Processes requests for research information and compiles information on related topics. A Master's degree in library science, and at least 2 years experience preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Library Technician	Uses practical knowledge of the methods and techniques of library or related information work in acquiring, organizing, preserving, accessing, and/or disseminating information. Requires knowledge of information services, tools and methods and procedures. Provides direct services to the customer and indirect technical services such as materials acquisition, copy cataloging, support of automated systems, or other similar work in support of library or related information programs and operations.
Live Television Technical Director	Configures and operates equipment associated with the production of live television. Coordinates with multiple sources of video and makes selections of sources for broadcast. Coordinates with clients, sources of information and other system operators to plan, schedule and conduct a variety of live television events. Follows standard procedures and guidelines while applying a significant amount of creativity and judgement. A bachelor's degree in related field and at least 4 years of experience preferred.
Media Information Specialist/Commentator	Researches information and responds to inquiries from news media via telephone, internet or in person. Requires detailed knowledge of technical systems of spacecraft and knowledge of news media methods, standards and practices. May be required to provide broadcast commentary of spaceflight mission activities for media and public use. Previous media experience helpful. A Bachelor's degree in journalism, broadcast media or related field and at least four years experience preferred. Significant degree of independent analysis and judgement is required.
Multimedia Quality Engineer (Quality Control Specialist)	Develops, applies, revises, and maintains quality standards for final inspection of conventional film products and digital imagery in accordance with company and contractual requirements. A Bachelor's degree in related field with at least 2 years experience in process control and laboratory operations perferred. Assists in reviewing and evaluating rejections, obtains disposition, and implements corrective action as needed. Researches industry advances in quality control. Operates digital imaging tools to produce digital image files, prints, negatives, slides, DVD, and CD-R media. Operates film processors, automatic printers, and film analyzers to produce color photographic prints, slides and viewgraphs. Adhere to all published safety procedures. Ensures the preparation and timely submission of reports, procedures, timesheets and other documentation required for the contract.

CONTRACT LABOR CATEGORY	GUIDELINES
Photographer I (JSC & WSTF)	Creates and prepares video, multimedia and photographic images to display creative, institutional, scientific exhibits, brochures, and other related material. Coordinates the purchase of multimedia/photographic materials. Associate's degree with at least 2 years experience in the field or in a related area preferred.
Photographer II (JSC & WSTF)	Creates and prepares video, multimedia and photographic images to display creative, institutional, scientific exhibits, brochures, and other related material. Coordinates the purchase of multimedia/photographic materials. Bachelor's degree with at least 5 years of experience in the field or ir a related area preferred. A certain degree of creativity and latitude is expected.
Photographer, Scientific	Creates and prepares video, multimedia and photographic images to produce technical brochures and other related material. Coordinates the purchase of multimedia/photographic materials. Bachelor's degree with at least 3 years of experience in the field or in a related area preferred. A certain degree of creativity and latitude is expected.
Photographic Processing Machine Operator/Tender	Selects, loads, and maintains film for cameras. Enlarges and reduces photos. Develops and prints color, and black and white film. May be expected to maintain chemical balances in processing equipment. Associate's degree with at least 2 years of experience in the field or in a related area preferred.
Photographic Specialist (WSTF)	Checks photographic equipment for imperfections and faults. Determines methodology to correct problems. Associate's degree in the field or in a related area preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Producer/Director/Scriptwriter I	Coordinates scripts and elements for productions. Auditions and identifies performers for roles in specific productions and conducts rehearsals. Writes, proofreads, and edits copy content for multimedia productions. Bachelor's degree or its equivalent and at least 2 years of experience in the field or in a related area preferred. A wide degree of creativity and latitude is expected.
Producer/Director/Scriptwriter II	Coordinates scripts and elements of productions for national distribution. Auditions and identifies performers for roles in specific productions and conducts rehearsals. Writes, proofreads, and edits copy content for multimedia productions. Bachelor's degree or its equivalent and at least 5 years of experience in the field or in a related area preferred. A wide degree of creativity and latitude is expected.
Program Manager	Serves as the Contractor's primary contract manager, and shall be the contractor's authorized interface with the Government Contracting Officer (CO), the contract level Contracting Officer's Technical Representative (COTR), government management personnel and customer agency representatives. Responsible for formulating and enforcing work standards, assigning contractor schedules, reviewing work discrepancies, supervising contractor personnel and communicating policies, purposes, and goals of the organization to subordinates. Shall be responsible for the overall contract performance. A Bachelor's degree in a related field with at least 10 years experience in a management position, managing 50 or more employees preferred.
Project Control Specialist	Directs all financial management and administrative activities, such as budgeting, manpower and resource planning, and financial reporting. Performs complex evaluations of existing procedures, processes, techniques, models, and/or systems related to management problems or contractual issues which would require a report and recommend solutions. Develops work breakdown structures, prepare charts, tables, graphs, and diagrams to assist in analyzing problems. Bachelor's degree in related field and at least 3 years experience in a related field preferred. May provide supervision and direction to staff.

CONTRACT LABOR CATEGORY	GUIDELINES
Project Manager	Serves as the Project Manager for a large, complex task order (or a group of task orders affecting the same common/standard/migration system) and shall assist the Program Manager in working with the Government Contracting Officer (CO), the contract-level Contracting Officer's Technical Representative (COTR), the task order-level monitor(s), government management personnel and customer agency representatives. A Bachelor's degree, 10 years work experience in related field, and at least 5 years managerial experience, managing 20 employees or more is preferred. Under the guidance of the Program Manager, responsible for the overall management of the specific task order(s) and insuring that the technical solutions and schedules in the task order are implemented in a timely manner. Performs enterprise-wide horizontal integration planning and interfaces to other functional systems.
Protocol Staffer	Conducts tours for high-level internal and external guests. Provides guests with explanations of facilities visited and the activities that take place in them. Stays informed of overview level of NASA programs and activities. Provides courteous, friendly customer relations in dealing with guests. Often required to drive cars or large vans. May plan and implement special events that may include formal presentations, U.S. Government and International protocol activities, news media activities and other details. May direct and lead the work of others.
Public Relations Specialist	Prepares and disseminates information regarding an organization through newspapers, periodicals, television radio, and other forms of media. Bachelor's degree in a related area and at least 5 years of experience in the field or in a related area preferred. May direct and lead the work of others. A significant amount of creativity is desired.
Quality Control/Safety Mgr	Familiar with a variety of accepted quality assurance and safety concepts, practices, and procedures. Develops, implements, and manages both quality control and safety plans, programs, and policies. Responsible for maintenance of safety/accident records. A Bachelor's degree, or equivalent, and at least 5 years of experience preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Records Management Specialist	Conducts meetings with records coordinators and custodians to identify and resolve record keeping problems in their organizations. Provides technical assistance and procedural advice/consultation to other personnel. Prepares training materials and conducts training, as required, for records management personnel. Prepares official records for retirement to the appropriate records storage facility, and facilitates the retrieval of retired records as required. Performs and supports periodic audits and self-assessments of the Records Management function. Associate's degree or its equivalent and at least 1 year of experience in the field or in a related area preferred.
Requirements Analyst	Responsible for identifying project stakeholders, eliciting, analyzing, writing, modeling, validating, verifying, prioritizing, and managing requirements. Key responsibility is to streamline the development process by providing an interface to customers for requirements and test plans. Generate detailed technical requirements and acceptance test plans for software engineers, developers, and other members of the development team. Identify and provide technical feasibility assessments of solutions. Support user interface development for common user experience across offerings. Owner for all project documentation ensuring proper documents for each project have been identified, completed, and cataloged. Prepare and present management reports and technical presentations
Scenelister I	Provides descriptive text to various forms of multimedia imagery based on library science guidelines for creating metadata.
Scenelister II	Provides descriptive text to various forms of multimedia imagery based on library science guidelines for creating metadata. At least 2 years experience is preferred.

CONTRACT LABOR CATEGORY	GUIDELINES
Software Engineer I	Designs, modifies, develops, writes and implements software programming applications including web applications. Supports or installs software applications. Participates in the testing process through test review and analysis, test witnessing and certification of software. Bachelor's degree in a related area preferred.
Software Engineer II	Designs, modifies, develops, writes and implements software programming applications including web applications. Supports or installs software applications. Participates in the testing process through test review and analysis, policy verification, test witnessing and certification of software. Bachelor's degree in a related area and at least 2 years of experience in the field or in a related area preferred. A certain degree of creativity and latitude is expected.
Software Engineer III	Designs, modifies, develops, writes and implements software programming applications. Supports and/or installs software applications. Participates in the testing process through test review and analysis, test witnessing and certification of software. Bachelor's degree in a related area and at least 5 years of experience in the field or in a related area preferred. May lead and direct the work of others. A wide degree of creativity and latitude is expected.
Software Quality Assurance I	Develops, publishes, and implements test plans. Writes and maintains test automation. Develops quality assurance standards. Defines and tracks quality assurance metrics such as defect densities and open defect counts. Bachelor's degree and at least 2 years of experience coding in C, C++, Java preferred. Should have a working knowledge of quality assurance methodologies. Familiar with NT, UNIX and Solaris environments as well as database environments.
Software Quality Assurance II	Develops, publishes, and implements test plans. Writes and maintains test automation. Develops quality assurance standards. Defines and tracks quality assurance metrics such as defect densities and open defect counts. A bachelor's degree and at least 5 years of experience coding in C, C++, Java is preferred. Should have a working knowledge of quality assurance methodologies. May lead and direct the work of others.

CONTRACT LABOR CATEGORY	GUIDELINES
Taxonomist	Researches and develops taxonomic classification and metadata schema. Uses both automated and manual processes for gathering candidate terms for the taxonomy on an ongoing basis. Collaborates with subject matter experts (SMEs) in identifying terms and determining their place and relationships. Works in appropriate tools for taxonomy management, data collection, application, and analysis, and for surfacing of new project management terminology by which to keep the taxonomy up to date. Adds terms to the taxonomy, makes collaborative decisions about term relationships, and inputs those relationships into the taxonomy using appropriate taxonomy tools. Conduct content audits and content analysis.
Technical Supervisor	Coordinates and ensures timely submission and completion of work orders based on established quality and schedule guidelines and priorities. An Associate's Degree or higher in the core activity or similar field with at least 5 years experience preferred. Review customer orders and work tickets and establish priorities for completion of work based on established guidelines. Sort and distribute work to appropriate production group and coordinate activities with immediate supervisor and group leads. Provide point of contact support for supply orders and all equipment maintenance. Comply with all published safety procedures. Provides quality control over production area processes and final products. Communicates clearly and often with group personnel regarding assignments, due dates, and other pertinent information. Ensures the preparation and timely submission of reports, procedures, timesheets and other documentation.
Technical Writer I	Writes a variety of technical articles, reports, brochures, or manuals for documentation for a wide range of uses. May be responsible for coordinating the display of graphics and the production of the document. Bachelor's degree in a related area preferred.
Technical Writer II	Writes a variety of technical articles, reports, brochures, and/or manuals for documentation for a wide range of uses. May be responsible for coordinating the display of graphics and the production of the document. Bachelor's degree in a related area and at least 5 years of experience in the field or in a related area preferred. May lead and direct the work of others. A wide degree of creativity and latitude is expected.

CONTRACT LABOR CATEGORY	GUIDELINES
Video Editor	Performs all editing tasks associated with creating video productions. Works with a variety of types of video editing equipment including digital and analog systems. An associate degree or equivalent with at least 2 years experience in a related field preferred. Creativity and independent judgment necessary. Works under general supervision.
Video Technician I	Monitors, analyzes, evaluates and maintains a Multimedia system. Specifically, related to the reception, recording, and distribution of multimedia imagery for inclusion into television programs and products. Operates videotape machines, disk-based file servers, camera control units, studio cameras, video switchers, audio mixers and other equipment used in the broadcast of live and taped television programming. May be expected to maintain a variety of program/production logs. Provides interaction and interface to customer of the multimedia services. Associate's degree or its equivalent and at least 1 year of experience in the field or in a related area preferred.
Video Technician II	Monitors, analyzes, evaluates and maintains a Multimedia system. Specifically, related to the reception, recording, and distribution of multimedia imagery for inclusion into television programs and products. Operates videotape machines, disk-based file servers, camera control units, studio cameras, video switchers, audio mixers and other equipment used in the broadcast of live and taped television programming. May be expected to maintain a variety of program/production logs. Provides interaction and interface to customer of the multimedia services. May require an Bachelor's degree or its equivalent and at least 5 years of experience in the field preferred.
Warehouse Specialist	Oversees the receiving, storing, packing, and shipping of merchandise or materials. Maintains stock records and schedules. High school diploma or its equivalent with at least 4 years of experience in the field or in a related area preferred.

Attachment J-13
List of
Government Furnished Property

Part/Model #	Serial # (if applicable)	Description	Cost
SED13101638	NONE	JACKET, SHUTTLE	$152.53
SED39117132-301	1002	APOGEE KICK MOTOR DEV.	$10,000.00
0106-88936-04	071(JAY APT)	RESTRAINT, SHUTTLE EV GLOVE	$9,000.00
MC-332-0006+	NONE	WINDOW PANE, SHUTTLE ORBITER	$35,000.00
12707G-02ALH--	NONE	GLOVES, PRESSURE, 1 PR	$5,000.00
63B305318G-3	013	GARMENT, SKYLAB PROTECTION(Bean)	$1,500.00
SEB13100143-	1043	BOOT ASSEMBLY, 1 PR (SKYLAB)	$200.00
NONE	NONE	MODEL, X-38 MOCKUP	$1,000.00
SED18100295	001	ANTENNA, SAREX	$1,000.00
NONE	NONE	EXHIBIT, INTERNATIONAL	$51,862.00
VARIOUS	NONE	NAME TAGS, ASTRONAUTS(37 EACH @$2)	$74.00
SEC4210+	1014	KIT, PERSONAL HYGIENE(6039S062)	$100.00
5073S081	UNKNOWN	GLOVE, TMG ASSEMBLY	$50.00
5018S098	NONE	EXPERIMENT, STUDENT	$20.00
PENGUIN	NONE	SUIT, FLIGHT, WENDY LAWRENCE	$40,000.00
PENGUIN	NONE	SUIT, FLIGHT, J. LINENGER	$40,000.00
SED33102521-301	1009/1014	CAMERA, 16MM(FLEW ON STS57, STS47, STS38, STS31)	$17,087.00
SED33102522-302	1014/SR 07362	MAGAZINE, FILM(FLEW ON STS44, STS37, STS35, STS32, STS30)	$5,019.00
SED33102524-301	1009	LENS, CAMERA, ZOOM(10-100MM)(FLEW ON STS77, STS69, STS68, STS57, STS54, STS46, STS44)	$4,463.00
NONE	NONE	JOHN BLAHA SOKOL SUIT	$150,000.00
0101-10001-03	1084	COMMUNICATIONS CARRIER ASSEMBLY EV1/EV2	$5,000.00
0106-111723-02	4004	GLOVE ASSEMBLY, LEFT, HEATED	$17,500.00
0102-82437-18	071	WATER LINE (VENTED TUBE ASSEMBLY), SIZE 02	$500.00
0102-82437-18	073	WATER LINE (VENTED TUBE ASSEMBLY), SIZE 02	$500.00
0106-811211-XX	PP001	GLOVE ASSEMBLY, LEFT, THERMAL METEORIDE, SIZE ZTT	$3,000.00
NONE	NONE	LAUNCH/REENTRY SUIT(ANDY THOMAS)	$150,000.00
RUSSIAN	NONE	SEAT LINER(ANDY THOMAS)	$50,000.00
NONE	NONE	PENGUIN SUIT(ANDY THOMAS)	$40,000.00
0106-812146-01	PVU012	GLOVE RESTRAINT ASSEMBLY, LEFT, PHASE VI	$12,500.00
0106-812537-01	00052	GLOVE BLADDER, LEFT, PHASE VI	$5,000.00
SED16102313-303	5015	MODULE, ELECTRONIC, COMMUNICATIONS CARRIER ASSEMBLY	$4,042.25

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	DISPLAY, NOMADIC, 10'	$2,920.00
NONE	NONE	DISPLAY, NOMADIC, 10'	$2,920.00
NONE	NONE	MODEL, SP. STATION COMPONENT	$1,000.00
NONE	NONE	MODEL, SP. STATION COMPONENT	$2,000.00
DAVID WOLF	UNKNOWN	SUIT, LAUNCH/REENTRY, PRESSURE	$150,000.00
ANDY THOMAS	0870659	SPACESUIT, PENGUIN	$40,000.00
A. THOMAS	UNKNOWN	SLEEPING BAG	$15,000.00
ANDY THOMAS	9570	SUIT, SHUTTLE, BLUE KNIT	$10,000.00
SED39124481	1001	DOCKING TARGET, SHUTTLE-MIR	$100,000.00
rn-8k-11	0450018	GLOVE, EVA	$15,000.00
NONE	NONE	DISPLAY, 10' POP-UP	$3,346.50
1/100 SCALE	NONE	MODEL, SPACE STATION	$7,500.00
NONE	NONE	SHUTTLE SYSTEMS PANEL DISPLAY	$3,291.50
NONE	NONE	SHUTTLE SYSTEMS PANEL DISPLAY	$3,291.50
NONE	NONE	SHUTTLE SYSTEMS PANEL DISPLAY	$3,291.50
NONE	UNKNOWN	SUIT, WATER SURVIVAL, SHANNON LUCID	$40,000.00
NONE	UNKNOWN	SLEEPING BAG, SHANNON LUCID	$15,000.00
NONE	NONE	MODEL, 1/144 SCALE SPACE STA.	$1,000.00
NONE	NONE	MODEL, 1/144 SCALE SPACE STA.	$1,000.00
NONE	NONE	DISPLAY, SPACE STATION FOOD	$6,115.04
NONE	NONE	MODEL, APOLLO, 1/20 SCALE	$3,000.00
MODEL	NONE	INFLATABLE REPLICA/NASA SPACE SHUTTLE	$12,027.00
NONE	NONE	INFLATABLE 10' NASA LOGO	$3,894.00
SHANNON LUCID	1250202	SUIT, RUSSIAN SOKOL FROM MIR	$150,000.00
JERRY LINENGER	0450262	BAG, SLEEPING, RUSSIAN - FROM MIR	$15,000.00
EMU	NONE	SHUTTLE SPACE SUIT MODEL	$12,800.00
NONE	NONE	SHUTTLE IN-FLIGHT SUIT, ONE PIECE, LIGHT BLUE	$74.00
NONE	NONE	TRUSS RING FOR EXB 0092 (ENH)	$7,746.38
NONE	NONE	SKYLINE TRUSS STRUCTURE (ENH 03-1842, 03-2165)	$12,789.03
NONE	013, 005, 076	LES COVERALL ASSEMBLY	$130,544.82
NONE	NONE	INFLATABLE ASTRONAUT COSTUME	$4,000.00
NONE	NONE	MODEL, MARS ROVER	$3,701.25
528-20991-1	1032	WATCH,CHRONOGRAPH, STS-92	$100.00
528-20991-1	1049	WATCH,CHRONOGRAPH, STS-104	$2,301.56
528-20991-1	1053	WATCH,CHRONOGRAPH, STS-114,99	$2,500.00

Part/Model #	Serial # (if applicable)	Description	Cost
528-20991-1	1057	WATCH, CHRONOGRAPH, STS-112,105,106,103	$2,500.00
528-20991-1	1097	WATCH, CHRONOGRAPH, STS-112	$5.00
528-20991-1	1099	WATCH, CHRONOGRAPH, STS-112	$5.00
NONE	NONE	PROTOTYPE ROBONAUT EXHIBIT	$11,453.50
NONE	NONE	PROTOTYPE ROBONAUT EXHIBIT	$11,453.50
MC621-0069-2006	03953-GT6465	MISSION SPECIALIST SEAT(FLOWN)	$170,115.00
MC621-0069-2006	03953-GT6467	MISSION SPECIALIST SEAT(FLOWN)	$170,115.00
NONE	NONE	PENGUIN FLIGHT SUIT, NORM THAGARD	$40,000.00
NONE	40-176-100-88	SLEEVELESS FLIGHT COVERALL, NORM THAGARD	$5,000.00
NONE	N0670232	PERSONAL FLOTATION DEVICE, NORM THAGARD	$1,000.00
NONE	NONE	FLIGHT SLEEPING BAG, NORM THAGARD	$15,000.00
RK28-651001-001	5004	POWER DRIVE UNIT DISCONNECT	$250.00
SED39117075-301	1001	CABLE CUTTER ASSEMBLY	$25.00
0106-88975-01	108	THERMAL METEROID GLOVE(TMG)	$6,000.00
0106-88975-01	108	THERMAL METEROID GLOVE(TMG)	$3,000.00
51450F-135-1	003	GROUND STRAP ASSEMBLY	$1,000.00
0101-80844-06	NONE	NECKSTRAP FOR COMMUNICATIONS CARRIER ASSY.	$10.00
0106-88936-04	024	RIGHT GLOVE, RESTRAINT ASSEMBLY	$3,653.00
0104-210895-01	003	LEFT BOOT, LOWER TORSO ASSY.	$4,000.00
0104-210895-02	003	RIGHT BOOT, LOWER TORSO ASSY.	$4,000.00
0107-81057-00	X-04-3	LEFT BOOT LEG VENT DUCT FROM LCV GRMT.	$1,000.00
0101-10001-03	1045	COMMUNICATIONS CARRIER ASSY(CCA)(SNOOPY CAP)	$2,200.00
NONE	NONE	POP-UP DISPLAY WITH HALOGEN LIGHTS & 2 SHIPPING CASES	$3,379.84
NONE	NONE	POP-UP DISPLAY WITH HALOGEN LIGHTS & 2 SHIPPING CASES	$3,379.83
NONE	NONE	POP-UP DISPLAY WITH HALOGEN LIGHTS & 2 SHIPPING CASES	$3,379.83
1/50 SCALE	NONE	INTERNATIONAL SPACE STATION MODEL	$12,428.90
NONE	NONE	KIOSK, INTERACTIVE	$6,623.89
NONE	NONE	KIOSK, INTERACTIVE	$6,623.89
NONE	NONE	KIOSK, INTERACTIVE	$6,623.89
EBS-20	101	ASTROMAST	$5,000.00
SKD42101108-302	1013	STS-97 MEDICATIONS AND BANDAGES KIT(MBK)	$1,237.15
SKD42101108-301	1013	STS-97 EMERGENCY MEDICAL KIT(EMK)	$1,237.15

Part/Model #	Serial # (if applicable)	Description	Cost
V53-3	UNKNOWN	DOCKING RING, APOLLO- SOYUZ	$1,400,000.00
NONEX	NONE	1/100 SCALE SPACE STATION MODEL	$2,500.00
NONEX	NONE	1/100 SCALE SPACE STATION MODEL	$2,500.00
1/50 SCALE	N/A	HI-FI ORBITER MODEL	$1,000.00
0106-88975-031	086	THERMAL METEOROID GLOVE(TMG)	$6,000.00
0	109	THERMAL METEOROID GLOVE	$10,000.00
0106-811852-02	109	THERMAL METEOROID GLOVE(TMG)	$10,000.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LT. BLUE, LAUNCH/ENTRY(Coats)	$700.00
P/N 10108-10055	NONE	COVERALL, 1-PIECE, LIGHT BLUE, LAUNCH/ENTRY(Allen)	$700.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
P/N 10108-10055	NONE	COVERALL, ONE-PIECE, LIGHT BLUE, LAUNCH/ENTRY(Bobko	$700.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY(Hawley)	$700.00
P/N10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY(Stewart)	$700.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
P/N 10108-10055	NONE	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
NONE	SPEC.55993(AER)	COVERALL, ONE PIECE, LIGHT BLUE, LAUNCH/ENTRY	$700.00
P/N 10101-20001	NONE	JACKET, LIGHT BLUE, IN-FLIGHT	$350.00
P/N 10101-20001	NONE	JACKET, LIGHT BLUE, IN-FLIGHT	$350.00
P/N 10101-20001	NONE	JACKET, LIGHT BLUE, IN-FLIGHT	$350.00
1017-10078-01	UNKNOWN	SHUTTLE IMPROVED WASTE COLLECTION SYSTEM	$50,000.00
MC194-0007-000+	2020N00746	SHUTTLE TIRE, STS-51	$4,000.00
MC194-0007-000+	2146N00732	SHUTTLE TIRE, STS-57	$4,000.00
NONE	2142N00401	SHUTTLE TIRE, STS-60	$4,000.00
MC194-0007-000+	2218N00056	SHUTTLE TIRE, STS-68	$4,000.00
SHUTTLE	UNKNOWN	TROUSERS, FLIGHT, CREW	$119.00
SHUTTLE	UNKNOWN	TROUSERS, FLIGHT, CREW	$47.88

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	216	PROTECTIVE VISOR FOR SPACE HELMET(FLEW 8 MISSIONS)	$11,241.00
MARK III	N/A	SPACESUIT REPLICA	$62,892.00
NONE	NONE	CASE W/SPACE PHOTOS	$555.09
NONE	NONE	CASE W/SPACE PHOTOS	$588.40
NONE	NONE	CASE W/SPACE PHOTOS	$518.45
NONE	NONE	CASE W/SPACE PHOTOS	$566.19
NONE	NONE	X-38 MODEL	$566.19
NONE	NONE	TBL TOP EXB FOOD FOR SPC	$500,000.00
PN:V36316207101	NONE	SHAPE CHARGE, APOLLO	$772.00
PN:V363162073	NONE	SHAPE CHARGE, APOLLO	$400.00
PN:V36-316207-5	NONE	BACK-UP RINGS (S/C 101)	$400.00
SED39117580-301	1005	SHUTTLE LOPPING SHEARS	$750.00
NONE	NONE	GLOVE MOLDS,HARD CASTING	$100.00
PN:RFBOP4-2-001	007	KIT,SURVEY,RADIATN W/MTR	$10.00
NONE	NONE	CHARTS(3),MAP,MOON,APOLO8	$500.00
GEMINI	P/N 7.1-14	HEAT SHIELD SAMPLE,7.5X4	$100.00
14-0104	2025	APOLLO WATER DISPENSER	$50.00
NONE	NONE	SHUTTLE FLT SUIT,1 PC	$100.00
NONE	NONE	POLAR STAR CHART	$49.28
NONE	NONE	REPLICA OF ASTP MEDALLN	$10.00
NONE	NONE	CUE CARD,ORB VEH 102	$50.00
NONE	NONE	ORBIT OPS CHCKLST,STS41B	$10.00
T159401/T159402	NONE	GLOVE MOLD,PR,APOLLO/CNRD	$5.00
T1336/T1337	B206	GLVE MOLD,RUBBER,APOLLO	$80.00
T1594001/159402	0277	GLOVE MOLD,APOLLO/SLAYTON	$80.00
A7L-103000-18	222	GLVE ASSY,(RT HND)APOLLO	$80.00
A7L-103000-06	135	GLOVE,LEFT,APOLLO(CONRAD)	$100.00
A7L-103000-06	564	GLV,IV,RGT HD COOPER	$100.00
NONE	NONE	APOLLO/GEMINI PROTYP CNT	$200.00
GEMINI	8117	CAMERA,PLT OBSRVR W/LENS	$1,000.00
NONE	NONE	MODEL H-1 ROCKET ENGINE	$1,000.00
V36-601219-31	NASA 101 WS	SANITATION BOX,APOLLO	$2,000.00
829170-2-1	126-130	COMMUNIC CARRIER ASSY	$300.00
			$2,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
PN:V36553520	HE 3CR-3	PRSR CNTL VLV(S/C106)APLO	$750.00
NONE	NONE	ARM H/E (S/C 113), APOLLO	$500.00
SKYLAB 3	652570012-mm	HEAT SHIELD,SMALL PC	$200.00
NONE	65257000-8HHH	FIRE EXTINGUISHER, S/C 118	$50.00
NONE	65257000-8MMM	FIRE XTING SC106,APOLLO10	$50.00
NONE	652570009-MMM	FIRE XTING S/C116,SKYLAB2	$50.00
NONE	652571008-PPP	FIRE XTING S/C117,SKYLAB3	$50.00
SKYLAB/CARR	1021	FIRE XTING UNFLN, SKYLAB	$50.00
SKYLAB/BOBKO	1029/1023/1040	COVERALL GARMENT ASSY	$50.00
SKYLAB/SCHWEICK	1075/1075/1328	COVERALL GARMENT ASSY	$200.00
SKYLAB/MCCANDLS	1077/1014/1103	COVERALL GARMENT ASSY	$300.00
NONE	1076	COVERALL GARMENT ASSY	$200.00
NONE	1004	CVRALL GRMNT(JACKT ONLY)	$300.00
NONE	A013	RESTRAINT,COMFRT TP BLKT	$150.00
P/N A6L-505000	208 (ASSY #9254	PRTBL FT RESTRT W/O CONN	$200.00
PN 14-0108-04	6047	PURGE VALVE ASSY	$100.00
NONE	NONE	URINE TRNSF ASSY(S/C118)	$100.00
129; 229	NONE	FIRED-INSERT SPIN RCK MR	$250.00
NONE	NONE	APOLLO 9 CLOTH EMBLEMS	$75.00
PN C3424	22	OTOSCOPE/OPH	$24.00
(25 EACH)	NONE	APOLLO 14 CLOTH EMBLEMS-2	$25.00
PN30091;EC30095	1930; 102	URINE VOLUME MEAS DEVICE	$1.00
PN 14-0108-02	6235	NAME TAGS-SLAYTON	$450.00
PN 14-0108-02	6232	NASA EMBLEMS(24))	$25.00
PN:V36-71510181	9396	URINE TRANSFER DEVICE	$46.00
PN 14-0108-04	6052	URINE COL DEV,STS3/5	$350.00
PN 14-0108-04	6051	URINE CLCT DEV,STS3LOUSMA	$5,000.00
PN 14010802	3345	CCU CABLE S/C 103,APOLLO8	$5,000.00
NONE	FAF165	URINE CLCT DEV,STS1,2,3	$100.00
601183011	K1C15	URINE CLCT DEV,STS1/2	$5,000.00
140224802	5807	URINE COLT TRANS ASSY,APO	$5,000.00
SEB42100045-201	101	APOLLO 16 CLOTH EMBLEMS	$3,000.00
SEB42100015-203	047	SUIT-DONNING STRAP ASSY	$24.00
SEB42100045-201	102	SGHT OPTIC ALGNMT EYE PC	$5.00
115D207041-101	N/A	BUSS COLLECT CONTNR ASSY	$10.00
			$150.00

Part/Model #	Serial # (if applicable)	Description	Cost
SEB40100065-201	1014	1.2 LITER CONTING BAG	$50.00
114100-3	F-20	EMERGENCY URINE COLL BAG	$150.00
NONE	30 _,331,320,DVT	1.2 LITER CONTING BAG	$50.00
CF550111R	1035+5	BAG,COLLECTION,FECAL	$25.00
2588218	P-141	MOORING LANYARD ASSEMBLY	$50.00
P/N V36-782029	NASA-101 WS	APOLLO SURVIVAL RADIO	$1,000.00
SEB42100015-203	046	MISC GLOVES(4)COV,DKE,IRW	$10.00
P/N 303800	C19	CAMERA,70 MM W/FILM PACK	$1,000.00
P/N 1B95300	00634	BEACON T/R	$500.00
PN 33100262-302	29027	SANITATION BOX/APOLLO	$300.00
14-0104-03	2191	EMERGENCY URINE COLL BAG	$150.00
NONE	SC 114	APOLLO SURVL RADIO BATT	$25.00
14-0108-02	3344	URINE BAG ASSEMBLY,SKYLAB	$2,100.00
NONE	NONE	RECRDR/REPRODUCER	$100.00
2001731;2001651	2AP91R	APOLLO WATER DISPENSER	$1,500.00
PN SV723405-2	5E010,5E012	APOLLO 17 CM HAND CONTROL	$10.00
PN SV748700-9	785/2040	URINE COLL TRANSF ASSY	$3,000.00
NONE	NONE	WHITE SUIT STRAPS (4)	$5.00
NONE	06362AAJ8373	MATCHD PENDLM & MDL ASSY	$4,500.00
MRS-202-3	76042	SILVER ELEC CONN CAPS(2)	$5.00
1-95M13021-1	NONE	BLADDER ASSEMBLY	$50.00
1-95M13023-1	142	CHARTS,STAR (6 PCS)	$42.86
CF55026-2	31,7	STOWAGE BAGS (2)	$25.00
2899019	1	VOICE,CARTRIDGE/GEMINI	$10.00
V36-601399	AAH3986	WELD SPECIMEN-1/SKYLAB	$500.00
PN 1B83847-1	052	WELD SPECIMEN-3/SKYLAB	$500.00
V36-612547	102940000057	70MM CAMERA	$1,500.00
1B83847-1	06362YCB9850	VERB NOUN PANEL/SKYLAB	$2,000.00
2583071-02	B160	URINE HOSE ASSY/APOLLO	$1,000.00
NONE	2308	PATCH,FINISH SURFC 3"X3"	$25.00
PN V36-327280	NONE	URINE FLTRS/C103,APOLLO 8	$600.00
NONE	0009,0015,0010,	PATCH,FINISH SURFC 3"X3"	$25.00
V36-601082-5	06362YCB9851	SMS CAP ASSEMBLY	$500.00
45-88814-11	67	DEFECT COLL DEVICE,APOLLO	$25.00
V28-420116	06362AAJ8608+	CMMND MOD TENSN TIEBELT	$5.00

Part/Model #	Serial # (if applicable)	Description	Cost
SEB-3310081-305	1021, 1020	EVA UTILITY LTS(2)	$200.00
SEB39105200-302	2011,2082	O2 HOSE CLAMP, SKYLAB	$124.00
115D207041-101	NONE	BIOMED SNSOR HRNESS/COOPR	$300.00
ME453-0005-0046	053830146AUC	ELEC HRNS ASSY W/END PRT	$50.00
NONE	NONE	CAMERA MOUNTS (2)	$10.00
MED901-0736-000	C021 & 1543	LUNAR SAMPLE SCALE/APOLLO	$50.00
2899017	1	BAG,COLLECTION,FECAL	$25.00
PN: BW1060003	1202	CARTRIDGE (BREECH)	$1,065.00
P/N R-S104B6	45	PLIERS,SPRING-MODIF	$10.00
14010804	5887	BAG,OUTER FECAL-EMESIS	$50.00
NONE	NONE	STAR LIST PANEL/SKYLAB	$2,000.00
NONE	NONE	JACKET,ICG, APOLLO/YOUNG	$400.00
4107070131	06359-1265BKA	BAG,DROUGUE,PARACHUTE	$1,000.00
NONE	2193	URINE COLLECT. TRNSF BAG ASSY	$250.00
NONE	NONE	CRESC 25 NDLE NS PLIERS	$5.00
53817811	73-R4	GEMINI FLAG	$200.00
1B90464-1	D001,D003,A001,	LUNAR MOD SIGHT-OPT ALGM	$1,000.00
NONE	NONE	WATER DISPENSER, APOLLO	$1,600.00
NONE	NONE	MAPS,FLIGHT, APOLLO 11	$200.00
ASS#1021358-011	1021377-021	MICROPHN W/SENSORS	$250.00
A7L10105403	136,041	CNTR,URN SAMP W/UTS CUFF	$250.00
NONE	0089	COLLAR,LFE JACK/MERCURY	$50.00
NONE	0030	MNTED SECT HT SHD/APOLLO	$25.00
P/NV3671510021	AAG4734	SXT CVR ASSY(S/C109)APL13	$750.00
R-14,0.268P-8	NONE	HARNESS ASSY BIO	$500.00
NONE	NONE	PATCH,FIN SUR 7"DI/SKYLAB	$100.00
P/N14-0111-01	2267	PATCH,FINSH SRFC7"DIA/SL	$100.00
115D406100-101	DE1411	CCU CONTROL HEAD/APOLLO	$1,000.00
SEB13100144-301	1070	LUNAR MOD TOOLS FOR ACA	$10.00
1B95357-501B	9110	MNTED SEC HEATSHD/GEMIG81	$25.00
MERCURY MA8-2	NONE	DEFECATION COLL DEVICE	$25.00
BW-1060-003	1168	OW/WMS COLCT UNIT/SKYLAB	$50.00
SKYLAB	054	GLVS,NFLGT,1PR,SKYLAB/BEA	$50.00
NONE	NONE	OW/WMS COLCT UNIT/SKYLAB	$50.00
115D406100-101	DE1412 (SKYLAB)	MOUNTED SECT OF HEAT SLD	$25.00

Part/Model #	Serial # (if applicable)	Description	Cost
APOLLO	1174,1141	JACKET,ICG/APOLLO:IRWIN	$400.00
V36-3	053830153AUC	PATCH,FINISH SURFC 3"X3"	$25.00
ASS#1021358-021	NONE	STS1 ORBTR VACM CLNR BAG	$1.50
V36-601632-211	06362AAK1395	OW/WMS COLLECTION UNIT	$50.00
20542	128	STRNL HRNSS & AUXIL HRNS	$30.00
M551	103	CARTRIDGE(OUTBRD-LONG 4)	$1,065.00
SEB4010000-202	1192	SCT UNIT	$1,000.00
115D402115-3	A9118	URINE BAG S/C 111 (ASTP)	$250.00
NONE	NONE	SCISSORS,STNLS STEEL/GEMI	$10.00
SEB40100190-301	5013	WELD SPECIMEN-1,SKYLAB	$500.00
V36-601632-111	06362AAJ9883	SUNBONNET, APOLLO	$25.00
EC-30100	501	OW/WMS COLLECTION UNIT	$50.00
NONE	AAG4727, 403	GLOVE,EVA (RT HAND)APOLLO	$100.00
M551	B005	SURVIVAL BLANKET,APOLLO	$75.00
30091	1932	WATER BAG	$250.00
9557-3-109-2	NONE	URINE VOLUME MEAS SYSTEM	$450.00
NONE	1002	CCU CONTROL HEAD	$1,000.00
V36-601632-211	06362AAK1396	WELD SPECIMEN-1,SKYLAB	$500.00
P/N 5140026011	026728090007	URINE TRANSFER DEVICE	$350.00
NONE	NONE	DEFECATION COLL DEVICE	$50.00
NONE	05383-0028-ALN	CMP SOLO BOOK, APOLLO 11	$200.00
V36610338	06361AO14517	URINE BAG S/C 111 (ASTP)	$250.00
V36-470201-5	06362AAH4003	BCN RECVRY VHF (S/C 104)	$1,500.00
NONE	004000115224	BOOT MLD,LUN SURF, APOLLO	$200.00
NONE	V36611517	CARTRIDGE (S/C 104)	$1,065.00
SEB26100001	05383-066ALN	KNOB CHLRN SYRG (S/C114)	$250.00
SEB26100001	05383-0054-ALN	FLEX LINE (S/C 114),APOLO	$350.00
NONE	0050007 & 00500	CHECK VALVE (CM 109)	$2,000.00
PN V36-601082-5	06362YCB9850	BRACKET (S/C 112), APOL15	$350.00
C6200-503-8	NONE	CRTRDGE(FHS)(S/C 101)	$1,065.00
SEB33100051-205	1049	CARTRIDGE (S/C 104)	$1,065.00
NONE	102940000046	PRESSURE TRANSDUCR(2 EA)	$11,670.00
P/N14116-501	10260H000079	O2 HOSE CLAMP	$124.00
NONE	AAG4843,AAG4839	VALVE (S/C 112), APOLLO	$250.00
P/NV36-601082	06362YCB0559	MIRROR,16MM CAMERA,SKYLAB	$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	004000050025	FILTER ASSY (S/C 110)	$250.00
V36-3	10095411476A	FILTER (S/C 113)	$133.00
P/N829-170-3-1	116129	31 BRCH ASSY PTS S/C107	$100.00
P/N245D30900	20	O2 HOSE CLAMP	$124.00
APOLLO VII	100200000018	PRESS X'DUCER (S/C 101)	$1,500.00
SVSK62906,81120	3	TEMP X'DUCER (S/C 110)	$3,500.00
P/NSVSK62934	006	PRSR CNTRL VALVE(S/C106)	$750.00
NONE	NONE	SBAND S/W (S/C 103)APOLLO	$4,000.00
P/NV36-59616711	06362AAG4839	CHECK VALVE ASSY.	$1,200.00
SEB39100370-107	2010	OPS BREAST PLATE-3 EACH	$870.00
NONE	309,446,434	OPS MOCKUP	$4,400.00
NONE	125120	CHAMBER UMBILICAL-1 EACH	$150.00
NONE	441,458,456-57,	BRECH ASSY(S/C107),APOLLO	$2,300.00
209441	408514302602/20	CAMERA STAFF	$100.00
P/N313540-3-1	59604	STS 1 FOOD ITMS(16),SSHUTLE	$35.23
NONE	MA/9	VALVE CNTRL,TEMP(S/C106)	$750.00
NONE	NONE	FIXED MEMORY MODULE (6)	$30,000.00
X-529434	6	MERCURY SURVIVL KIT	$500.00
33E11-1C	01544000050U	RCKT ENG ASSY(S/C101)APOL	$15,000.00
NONE	NONE	ABSRBR ELEM CO2(S/C 117)	$1,479.00
ASS# 97942	4001	PROTOTYPE,BEACON FLSHLT	$200.00
NONE	NONE	LUNAR ROVER WHEEL MTR AS	$500.00
APOLLO 12	NONE	LUNAR ROVER WHEEL MTR	$200.00
P/NR80815	904069	CMPRSSR-MTR DRVN (S/C17)	$8,576.29
NONE	240	TWR LG BOLTS(4PCS)S/C107	$250.00
NONE	118-199	INTERFACE UNIT VIDEO	$25,000.00
NONE	NONE	FOOD TRAY, SKYLAB	$150.00
V36-610053-7	NONE	FITTING ASSY(S/C 108)	$600.00
NONE	010,012,005,026	PACK ASSY,MAIN CHUTE	$75,000.00
NONE	NONE	HELICOPTER NET	$800.00
P/NV36-316018-6	136-68	GLYCL TEMP SENSR(S/C116	$6,697.00
V36-334135-3	NONE	BEAM (S/C 108),APOLLO 12	$2,000.00
GORDON	A6L-400000-1	RETNR ASY(S/C112)APOLLO15	$250.00
WEITZ	1056/11	FLXBLE ARM/GLV HD ST AS	$300.00
BW-1029-001	001	SHUTTLE IVA JACKET/STS26	$600.00

Part/Model #	Serial # (if applicable)	Description	Cost
APOLLO	NONE	GUSSET PANEL (S/C 102)	$300.00
70MM	NONE	CLOSE-OUT PNLS (S/C 110)	$750.00
NONE	063	LIQ. COOL. GARMENT	$1,000.00
NONE	10051266079	COVERALL GARMENT ASSY.	$300.00
V36-610040-30	06362AAF394	LIQ. COOL. GARMENT	$1,000.00
ME901-0090-	003	TV CAMERA	$100,000.00
NONE	005	CAMERA, TV, COMMUNICATIONS	$50,000.00
612R285G	P0005	CAMERA, DATA	$1,500.00
E901-0090-010	002	TV CAMERA	$200,000.00
2RD2800	1034	LEM HAND CONTROLLER	$5,000.00
612R285G01	P0002	WESTINGHOUSE TV CAMERA	$20,000.00
V56-715100	06362AAJ778	COLD PLATE, S/C 101	$500.00
612R285G01	P0001	CAMERA, 70MM W/FILM PAK	$1,000.00
NONE	1433	LUNAR TV CAMERA	$25,000.00
1756950-50Z	1080013	COLOR TV CAMERA	$44,250.00
NONE	0110	LUNAR TV CAMERA	$25,000.00
30053-1	A130	L CCU CONTROL HEAD	$7,247.00
V36-770036-22	06362AAJ774	SLOW-SCAN TV	$25,000.00
V36-326637	NONE	WIND TUNNEL MODEL(2 EA)	$100.00
APOLL0 S/C 112	06361A01544	APOLLO TV ZOOM CAMERA	$5,000.00
APOLLO	008	APOLLO TV ZOOM CAMERA	$5,000.00
NONE	021	FITTING, S/C 113, APOLLO	$1,200.00
AJK039(23L)+	NONE	R/H RENDZV. SHADE,S/C 116	$600.00
65675-107-161	A11A	GASKET ASSY., S/C 108	$250.00
S/C 104	NONE	X-X HD SHK STRUCTURE	$4.00
NONE	255	ALSEP DEPLOY. ARM MC	$400.00
N/A	NONE	ALSEP DEPLOY. ARM MC	$400.00
EMS 35	002,800047N	SRB HOLD DOWN BOLT/SPAC	$100.00
NONE	AC26	IMU(INERTIAL MEASURE.UNIT	$125,000.00
NONE	043	MESC COVER, S/C 112	$1,200.00
NONE	068	HEATSHIELD PLUGS	$1,938.00
NONE	052	HELMET, GOLD NECK RING	$1,000.00
NONE	NONE	LUNAR GLOBE	$19.80
NONE	906828	DEFILBRILLATOR, MINI	$11,850.00
NONE	026	THRUST TRANSLAT. C'TROL	$35,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
ME4560041003	10014000441	THRUST TRANSLAT. C'TROL	$35,000.00
NONE	NONE	THRUST TRANSLAT. C'TROL	$35,000.00
NONE	A001	STS 1 FOOD ITEMS	$28.20
NONE	RAY39	PILOT CHUTE	$5,000.00
SKYLAB	NONE	CONTROL CAMERA TV	$20,500.00
NONE	NONE	CONTROL TIMING UNIT S/C104	$6,000.00
S/C 104	06362AAH54	1/20 SCALE LM MODEL	$10,000.00
NONE	1062V	GEMINI H/HELD MANEUV.UN	$5,000.00
467A8060016-1	4C	DSKY HANDLING FIXTURE	$50.00
APOLLO	LTT410-26-88	RED DECK. SECT. FROM SKYL	$50.00
NONE	024	SKYLAB FLOORING SECTION	$500.00
APOLLO	101	EVA GUARDS, APOLLO S/C	$350.00
APOLLO	467A8060016099+	GEMINI H/HELD MANEUV.UN	$5,000.00
P/N SV3675057	AAC704	LUNAR DRILL STEM	$50.00
S/C 104	NONE	MOCKUP LM CRW	$100.00
NASA/ASTP	NONE	A HARNESS	$20,287.00
V36-00002-141	NONE	SENSING PROBE	$100.00
NONE	0712-080400-	APOLLO LUNAR SURFACE CR	$50.00
APOLLO	007 & 020	PLSS/RCS MOCKUP	$200,000.00
P/N 829500-1-1	31-109	RECORDER, FLT. QUALIFIED	$2,000.00
B36-00000-2-1	108	FORWARD HATCH	$55,000.00
APOLLO	3000 RCA	LUNAR COMM. RELAY SYS.	$500,000.00
NONE	AC25	SILK SCREEN, WOODEN	$100.00
61A850003-319	1073	C/O PANEL, S/C 110	$500.00
EW543	NONE	PGM TELEM. UNIT, S/C 104	$22,000.00
61A850003-319	1046	IVA UMBIL. DISC COMPOSIT.	$500.00
NONE	NONE	A HARNESS	$6,245.00
APOLLO(G&N)	AC12	B HARNESS	$10,570.00
NONE	ACSK-10	INTERCOM SPEAKER	$20,000.00
NONE	ACSK-2	SOLAR POWER SATELL. MDL	$700.00
E-2	3400735	INTERCOM SPEAKER	$20,000.00
50M167631	002	MOCKUP STABIL. FLYING VEH	$500.00
APOLLO 13	46118	PULSE TORQUE ASSY.	$18,000.00
2007222-221	ACSK24	CDU(CMPTR DISPLAY UNIT)	$173,500.00
NONE	NONE	PSA(POWER & SERVO ASSY)	$58,508.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	PSA HANDLING FIXTURE	$400.00
NONE	370	GEN. SYNC CAMERA	$40,000.00
NONE	AH-4H-026	VIDEO SWITCHER	$32,000.00
NONE	MH-1	PORT. WATER TANK(OXYG)	$550.00
NONE	NONE	APOLLO DOCKING PROBE W/C	$1,000.00
NONE	A5/07	1PC SHUTTLE FLIGHT SUIT	$49.28
NONE	S3L-106005-0	LM ERECTIBLE S-BAND ANTE	$1,000.00
NONE	029	ATTITUDE/TRANSLAT. CTRL.	$500,000.00
NONE	024 & 003	ATTITUDE/TRANSLAT. CTRL.	$500,000.00
APOLLO	027	DESCENT ENG. CTRL. ASSY.	$250,000.00
NONE	NONE	HELMET	$1,000.00
NONE	NONE	HELMET, MERCURY	$1,000.00
APOLLO	NONE	HELMET, PROTOTYPE	$100.00
SPD-804-2	002	HELMET	$1,000.00
NONE	104	HELMET, PRESSURE ASSY.	$2,000.00
NONE	034	HELMET, MANNED ORBIT	$200.00
APOLLO	NONE	HELMET(BUBBLE)	$100.00
NONE	017	HELMET, RED NECK RING	$100.00
V36-601326-11	NONE	HELMET, APOLLO PRESSURE	$2,000.00
V36-601325-11	NONE	HELMET	$1,000.00
V36-601325-12	NONE	HELMET SHIELD	$50.00
NONE	2016	HELMET, LEXAN, BLUE NECK	$1,000.00
NONE	1053	HELMET VENT PADS, 2 EACH	$20.00
APOLLO	11701122	BACK PAD, APOLLO	$200.00
NONE	1007	BACK PAD, APOLLO	$200.00
NONE	1209	BACK PAD, APOLLO	$200.00
NONE	1210	APOLLO FLASH LIGHT	$100.00
NONE	NONE	APOLLO FLASH LIGHT	$250.00
A7L-106021-16+	555	APOLLO FLASH LIGHT	$250.00
A7LB-104087-01	059, 347	BIO ISOLATION GARMENT	$750.00
A7LB-104087-06+	355, 147	SAMPLE COLLECTION BAG	$25.00
NONE	138, 176	SAMPLE COLLECTION BAG	$25.00
NONE	093, 101	SAMPLE COLLECTION BAG	$25.00
NONE	1003770-051	UPPER/LOWER ARM ASSY.	$20.00
NONE	RAY 5	APOLLO BOOT ASSY.	$20.00

Part/Model #	Serial # (if applicable)	Description	Cost
APOLLO	003	ELBOW CONVOLUTES(2 EA)	$20.00
APOLLO	004	ELBOW CONVOLUTES(2 EA)	$20.00
APOLLO	037	THIGH CONVOLUTES(2 EA)	$20.00
APOLLO	65832	SHOULDER CONVOLUTES	$20.00
JA	NONE	SIMULATOR, COMPUT G&N	$50.00
NONE	RAY 36	AGC(APOLLO GUID. COMP..)	$275,800.00
ID#A-4H-030	832	AGC/HAND FIXTURE	$500.00
NONE	001	ALSRC STRUCTURAL SIM.	$25,000.00
NONE	003M	ALSRC STRUCTURAL SIM.	$25,000.00
NONE	402	LITHIUM HYDROX. CARTRIDGE	$100.00
P/N 14-0108-03	3961	SPS ENG GIM ACTIVATOR	$30,000.00
P/N A7L-101054	103	APOLLO SUIT MOCKUP	$3,000.00
NONE	NONE	APOLLO SPACE SUIT GLOVE	$25.00
NONE	G2G18	APOLLO PRESS. GARMENT	$5,000.00
4060AF	NAS641M64-6	APOLLO SPACE SUIT W/CV	$2,000.00
A3983010001	104	APOLLO SPACE SUIT C'LAYER	$500.00
1004783	05A5P3	URINE COLL. TRANSF. ASSY.	$100.00
MIT2018601	200-EM,D	BIO HARNESS ASSY.	$50.00
NONE	CM3692-1	GLOVES, 1PR, BLUE	$10.00
GG33C1	K-108	HELMET, GEMINI	$2,000.00
NONE	NONE	APOLLO ATTITUDE INDICATOR	$19,311.00
NONE	1009; 1006	VERTICAL SCLALE INDICATOR	$6,400.00
P/N DCG148D	1005	AGC COVER PLATE PANEL	$50.00
NONE	1009	APOLLO INERTIAL MEASURE	$1,000.00
NONE	10028FAL101	APOLLO ROPE MEMORY	$2,000.00
NONE	10028FAB100	APOLLO FLT. VERT. GYRO	$500.00
P/N DGG79A-	K-5	EXPERIM. MOD & MDL	$50.00
P/N A1271-507	A 002Y	A&B ATTITUDE INDICAT. SET	$2,000.00
NONE	RAY-205	VELOCITY CHANGE INDICAT.	$500.00
NONE	112, H-18	VELOCITY CHANGE INDICAT.	$500.00
APOLLO	WC1-2	APOLLO TRANSLAT. HAND CO(2 each)	$500.00
APOLLO	1007	3-AXIS ANGULAR GYRO ASSN	$2,000.00
APOLLO	EM-2	RATE GYROSCOPE, MERC.	$2,000.00
NONE	NONE	ENT MONITOR SYS ASSY.	$100.00
APOLLO	IH-1247	AGC SUBSYSTEM, APOLLO	$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	INERTIAL PLATFORM	$1,000.00
CHALLENGER	NONE	INERTIAL MDL OF OPT. TRCK	$5,000.00
CHALLENGER	NONE	ATTITUDE GYRO ACCE.	$2,000.00
1/100 SC	NONE	LUMINATING BEACON	$1,000.00
NONE	NONE	SP. SH. STACK MDL, 1/100	$500.00
APOLLO	NONE	LEX. HELMET, SILVER NECK	$2,000.00
NONE	2TV-1	SP.SH. STACK MDL, 1/100	$270.00
NONE	NONE	SP. SH. STACK MDL, 1/100	$270.00
NONE	NONE	SP. SH. STACK MDL, 1/100	$270.00
NONE	NONE	SHUTTLE STACK MDL-ATLNTS	$270.00
NONE	NONE	SP.STATION MODULE(5 PCS)	$10,000.00
NONE	NONE	AGC PANEL	$100.00
NONE	NONE	APOLLO-SOYUZ HI GN ANTEN	$7,500.00
NONE	NONE	1/3 SC MERCURY MODEL	$5,000.00
A5L012	NONE	CREW COUCH, APOLLO	$1,000.00
NONE	NONE	CREW COUCH, APOLLO	$1,000.00
APLOLLO	NONE	CREW COUCH, APOLLO	$1,000.00
A6L-40000-01	011	CORE TUBE EXHIBIT	$245.00
NONE	NONE	MNND MANVRNG UN(MMU)SHTL	$10,000.00
S983A,A1725	401,406,426A523	SUIT ASSY, GRISSOM	$10,000.00
APOLLO	020	PAINTING "MOONSCAPE"	$2,000.00
SKYLAB/SCHWEICK	1047/1052/1114	SPACE SUIT, FULL PRESSURE, MERCURY	$5,000.00
NONE	NONE	PRESSURE GARMENT ASSY., MOL	$5,000.00
STS-9	NONE	PRESSURE GARMENT ASSY., YOUNG	$100,000.00
NONE	NONE	SPACE SUIT	$2,000.00
NONE	32-311	LIQ COOLNG GRMT LNR ASSY	$1,000.00
NONE	NONE	PRESSURE GARMENT ASSY. W/BOOTS	$1,000.00
APOLLO/SCOTT	325,336	SPACESUIT WITH HELMET AND GLOVES, GEMINI	$9,500.00
NONE	NONE	ITLSA W/EV GLVS	$101,000.00
SK84100020000-0	NONE	SPACE SUIT, W/HLMT&BTS, APOLLO	$5,000.00
NONE	NONE	AIR BEARING TRAINER	$550,000.00
NONE	NONE	COVERALL GARMENT ASSY	$300.00
NONE	NONE	FRSI-FLEX REUSABLE SURFACE INSULATION	$313.86
NONE	NONE	PRESENTATION, CULTURAL BOOK WEEK AWARD	$100.00
NONE	NONE	ATM SOLAR CELL MODULE	$6,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	PLAQUE, WOOD, PRESENTED TO NASA	$25.00
NONE	NONE	PAINTING, "AT TOP OF RAMP"	$200.00
NONE	NONE	PAINTING "BUILDING 16"	$200.00
APOLLO	3005,009,003	PAINTING "TEST STAND MSC"	$250.00
NONE	NONE	PAINTING "ROW"	$200.00
NONE	NONE	PAINTING "SEABIRDS"	$200.00
NONE	NONE	PAINTING "BLOCKHOUSE"	$200.00
1/100 SC	NONE	PAINTING "NIGHT ON PAD 34"	$500.00
1/100 SC	NONE	PAINTING "MENSCH IN ALL"	$200.00
1/100 SC	NONE	HI GAIN ANTENNA	$15,000.00
NONE	NONE	GREETINGS FROM SOYUZ CREW TO JSC	$50.00
1/9 SC	NONE	PAINTING "ON THE WATER-GT-4"	$7,500.00
NONE	NONE	FRAMED PHOTO FUTURE SPACE STATION	$300.00
NONE	NONE	MODEL, SPACE SHUTTLE STACK	$250.00
1/96 SC	NONE	MODEL, SPACE SHUTTLE STACK-OLD	$250.00
1/8 SC	M11/4	MODEL, SPACE SHUTTLE ORBITER/747	$350.00
1/8 TH SCALE	NONE	GLOBE,LUNAR	$19.80
1/8 TH SCALE	NONE	MODEL, MERCURY	$1,000.00
1/8 TH SCALE	NONE	TBL TOP EXB FOOD FOR SPC	$772.00
NONE	NONE	TBL TOP EXB FOOD FOR SPC	$772.00
1/8 SC	NONE	MODEL, SATURN V	$400.00
1/8 TH SCALE	NONE	MODEL, EXPLORER XII	$110.00
NONE	NONE	MODEL, RELAY	$95.00
1/100 SC	NONE	MODEL, ALOUETTE	$140.00
1/25 SC	NONE	MODEL, SYNCOM	$60.00
1/40 SC	NONE	MODEL, ARIEL, 1/8 SCALE	$80.00
1/100 SC	NONE	MODEL, TIROS	$75.00
NONE	NONE	TELSTAR MODEL	$90.00
1/96 SC	NONE	SPAN DISTRB-LD AIRCFT LD	$4,600.00
1/10 SC	NONE	SPACE SHUTTLE STACK MDL	$250.00
1/32 SC	NONE	F8 SPRCRTCL WING AIRCRFT	$119.00
1/50 SC	NONE	COMMAND SRV MODULE MODEL	$300.00
1/10 SC	0/18	SPACE SHUTTLE CUTAWAY ML	$300.00
BF GOODRICH	NONE	AST100 ADV SUPRSNC MODEL	$4,600.00
BF GOODRICH	NONE	SATURN V MODEL	$200.00

Part/Model #	Serial # (if applicable)	Description	Cost
STS19	2196A00476	GEMINI MODEL	$1,250.00
STS11	7076AK0651	APPLIC TECH SATELTE	$520.00
1/8 SC	NONE	ASTP MODEL	$500.00
1/100 SC	NONE	MODEL, GEMINI	$1,500.00
1/96 SC	NONE	TIRE, NLG(SHUTTLE)	$290.00
1/40 SC	NONE	TIRE, NLG(SHUTTLE)	$290.00
1/48 SC	NONE	TIRE, MLG, FLOWN(SHUTTLE)	$3,835.00
1/96 SC	NONE	TIRE, NLG, TUBELESS	$165.63
1/8 SC	NONE	MODEL, ATS-6(AP TECH SATELLITE)	$520.00
1/10 SC	NONE	MODEL(PARTIAL) SPACE SHUTTLE STACK	$102.00
1/96 SC	NONE	MODEL, SPACE SHUTTLE STACK(OLD)	$1,000.00
1/96 SC	NONE	MODEL, LUNAR MODULE	$80.00
NONE	NONE	MODEL, SKYLAB	$2,500.00
1/100 SC	NONE	MODELS, LAUNCH VEHICLE SET	$840.00
1/96 SC	NONE	MODEL, ORBITING GEOPHYSICAL ORBITER	$250.00
1/96 SC	NONE	MODEL, MERCURY	$1,100.00
1/100 SC	NONE	MODEL, SATURN V	$500.00
NONE	NONE	SATURN V MODEL	$225.00
NONE	NONE	SHTLE STACK MODEL W/ARMS	$400.00
1/40 SC	NONE	SPACE SHUTTLE STACK MDL	$400.00
NONE	NONE	SATURN I MODEL	$400.00
1/48 SC	NONE	SATURN IB MODEL	$401.00
NONE	NONE	SPACE SHUTTLE STK MODEL	$109.75
1/50 SC	NONE	VIKNG'75 SPCCRFT+LNDR ML	$300.00
1/50 SC	NONE	SPACE SHTLE STACK W/ARM	$400.00
NONE	NONE	VIKNG'75 SPCCRFT+LDR MDL	$300.00
1/25 SC	NONE	APOLLO LUNAR MODULE MDL	$500.00
NONE	NONE	LUNAR SAMPLE REPLCA DISP	$900.00
1/50 SC	NONE	SKYLAB CLUSTER MODEL	$2,500.00
1/50 SC	NONE	APOLLO EVA FRMD PHOTOS	$1,000.00
1/100 SC	NONE	SPACE SHTLE ORBITR W/ARM	$900.00
1/100 SC	NONE	SPACELAB W/PALLET MODEL	$256.00
NONE	NONE	LUNAR SAMPLE MOCKUP	$1,100.00
1/96 SC	NONE	VIKING 75 LANDER MODEL	$2,500.00
1/8 SC	NONE	VIKNG'75 SPCCRFT&LNDR ML	$300.00

Part/Model #	Serial # (if applicable)	Description	Cost
1/50 SC	NONE	SPACE SHTLE ORBITR W/ARM	$900.00
1/50 SC	NONE	SPACELAB W/PALLET MODEL	$256.00
1/100 SC	NONE	SPACE SHUTTLE STACK MDL	$400.00
1/100 SC	NONE	SPACE SHTLE STACK W/ARM	$400.00
1/96 SC	NONE	LUNAR SAMPLE REPLICA	$1,100.00
1/100 SC	NONE	SATURN V MODEL	$200.00
1/40 SC	MF A-M-326	GEMINI MODEL	$2,500.00
NONE	NONE	SPACE SHTLE ORBITR W/ARM	$900.00
1/100 SC	NONE	SPACELAB W/PALLET MODEL	$256.00
1/100 SC	NONE	SPACE SHUTTLE STACK MDL	$250.00
1/100 SC	NONE	SPACE SHUTTLE STACK MDL	$250.00
1/40 SC	NONE	SATURN V W/ESCP TWR MDL	$1,010.56
NONE	NONE	SPCE SHUTTL ORB/747 MDL	$450.00
1/100 SC	NONE	APOLLO COMD SRV & LNR MD	$600.00
5 MODELS	NONE	1/100 SC ORB/747 MDL	$350.00
NONE	NONE	SPC SHTL STK MDL-DISCVRY	$425.00
1/100 SC	NONE	SPC SHTL STK MDL-DISCVRY	$425.00
1/96 SC	NONE	SPC SHTL STK MDL-DISCVRY	$425.00
1/40 SC	NONE	COMMAND SRV MODULE MODEL	$300.00
1/50 SC	NONE	APPLIC TECH SATELTE MDL	$520.00
1/50 SC	NONE	SPC SHTL STK MDL-ATLNTIS	$425.00
NONE	NONE	LAUNCH VEHICLE FAMILY	$400.00
NONE	NONE	HYPERSNC CRS AIRCRFT TRN	$4,600.00
NONE	NONE	747 AIRCRAFT W/STD & BS	$4,600.00
1/8 SC	NONE	LAUNCH VHCL SET W/4 MDLS	$800.00
1/10 SC	NONE	APOLLO COM.SERV.MOD.MODEL	$300.00
1/8 SC	NONE	SPACE SHTLE ORBITR W/ARM	$900.00
1/8 SC	NONE	SPACELAB W/PALLET MODEL	$256.00
1/8 SC	NONE	APPLIC TECH SATELLTE MDL	$520.00
NONE	NONE	LUNAR ROCK REPLICA	$275.00
NONE	NONE	LUNAR ROCK REPLICA (7)	$1,500.00
NONE	NONE	MARINER VII MODEL	$310.00
NONE	NONE	APOLLO COMMAND MODULE ML	$3,000.00
NONE	NONE	RANGER MODEL	$110.00
1/48 SC	NONE	NIMBUS MODEL	$160.00

Part/Model #	Serial # (if applicable)	Description	Cost
E2 ARRAY E	26	SURVEYOR MODEL	$200.00
APOLLO	NONE	LUNAR SAMPLE MOCKUP	$110.00
NONE	NONE	SHTL FLT SUIT MCKUP,2 PC	$114.75
1/10 SC	NONE	SHTL FLT SUIT MCKUP,2 PC	$114.75
1/10 SC	NONE	SHTL FLT SUIT MCKUP,2 PC	$114.75
LM1363	NONE	SHTL FLT SUIT MCKUP,2 PC	$114.75
STS9	102	SKYLAB MODEL	$720.00
STS9	127-A	ALSEP MOCKUP,SUBPKG 1	$500.00
STS9	200,219,212	MODEL F-1 ROCKET ENGINE	$2,000.00
STS9	314	DROP MODEL 5 SHUTTLE	$3,000.00
STS9	NONE	COMMAND MODULE MODEL	$300.00
STS9	NONE	LUNAR MODULE MODEL	$300.00
STS9	216	MODEL,1/10 SC,AES LAB	$1,000.00
STS9	103	EJECTION SEAT	$15,000.00
STS9	122-A	SURVIVAL KIT	$800.00
STS9	201,220	PERSONNEL CHUTE	$500.00
STS9	105	ROCKET CATAPULT W/CARTRD	$1,200.00
STS9	104	GUARD D-RING	$250.00
STS9	208	GUARD D-RING	$250.00
STS9	205	ROCKET CATAPULT W/CARTRD	$1,200.00
1/10 SC	NONE	EJECTION SEAT	$15,000.00
NONE	NONE	SURVIVAL KIT	$800.00
GARR/MCCAND/POG	NONE	PERSONNEL CHUTE	$500.00
GIBSON	SKYLAB 4	GUARD D-RING	$250.00
1/96 SC	NONE	GUARD D-RING	$250.00
1/100 SC	NONE	ACTUATOR	$375.00
LR/6	NONE	ACTUATOR	$375.00
1/50 SC	NONE	SHTLE ORBITR MDL 57-0	$42,500.00
NONE	NONE	SKYLAB SUIT (CONRAD)	$391.00
MERCURY	NONE	SKYLAB SUIT ASSY	$391.00
NONE	1055,1233	SKYLAB SUIT ASSY	$295.00
NONE	321	ITLSA W/MANNEKIN,GLVS,+	$150,000.00
APOLLO	J/5	LAUNCH PAD W/SATRN V MDL	$900.00
NONE	NONE	CLR PLXGLS SHTLE MODEL	$300.00
NONE	NONE	LUNAR RCK REPLCA DISPLAY	$1,100.00

Part/Model #	Serial # (if applicable)	Description	Cost
2588254	249	SHTLE ORBITR MDL W/RMS	$782.00
NONE	P-114; 248, 237	TBL TOP EXB FOOD FOR SPC	$772.00
1/100 SC	NONE	ESCAPE TOWER	$5,000.00
1/96 SC	303	HELMET,RED NECK RING	$1,000.00
NONE	NONE	SUIT W/GLOVES & BOOTS	$3,000.00
1/3 SC	NONE	RADIO BEACON BATTRY-5 EA	$3,500.00
1/3 SC	NONE	RADIO BEACON BATTRY-9 EA	$6,300.00
APOLLO/CERNAN	087,049,093,ETC	RADIO BEACON BATTRY-1 EA	$700.00
NONE	020M	RADIO BEACON BATTRY-3 EA	$12,000.00
1/50 SC	NONE	SHTLE STACK MODEL W/ARMS	$400.00
BW-1060-002+	1136,1076,1105	SATURN V MODEL	$200.00
NONE	NONE	MANNED SP FLT HISTOR EXB	$7,000.00
NONE	NONE	APOLLO COMMAND MODULE ML	$10,000.00
NONE	NONE	LUNAR MODULE MODEL	$6,000.00
NONE	00025/00021	COVER LAYER(TMG) ASSY	$500.00
NONE	NONE	DISPLAY,EMU SUIT-ITLSA	$14,500.00
1/100 SC	NONE	SPACE SHUTTLE STACK MDL	$1,500.00
1/20 SC	NONE	COVERALL SUIT-1 EACH	$200.00
1/100 SC	NONE	BIOBELT ASSY-3 EACH	$102.00
APOLLO	J/11	URINE BAG SAMPLE-2 EACH	$200.00
NONE	NONE	PLSS THERMAL COVER-3 EA	$2,900.00
NONE	NONE	OPS THERMAL COVER-4 EACH	$14,524.00
1/100 SC	NONE	PLSS THERMAL COVER-1 EACH	$870.00
1/2 SC	NONE	SPACE SHTLE STACK MODEL	$400.00
NONE	NONE	SKYLAB MODEL	$6,000.00
NONE	NONE	SPACE SHTLE STACK W/ARM	$400.00
NONE	NONE	SUIT (BUSTER)	$11,000.00
NONE	NONE	CLR PLXGLS SHTLE MDL	$300.00
APOLLO/ARMSTRNG	NONE	LUNAR ROCK REPLC DISPLAY	$1,100.00
NONE	NONE	SPACE SHUTTLE STACK MDL	$400.00
SKYLAB	J/12	APOLLO COMMAND MODULE ML	$1,200.00
NONE	NONE	IVCL ASSY,BRAND	$1,000.00
1/50 SC	NONE	SPACE FOOD TRVLNG DISPLY	$4,311.90
NONE	NONE	MINORITY PROFILE PANELS	$1,500.00
1/15 SC	NONE	SPACE FOOD TRVLNG DISPLY(w/1895)	$4,311.90

Part/Model #	Serial # (if applicable)	Description	Cost
1/50 SC	NONE	SUIT,EMU (W/A-V)	$11,000.00
1/50 SC	NONE	SPACE FOOD TRVLNG DISPLY	$4,311.90
1/50 SC	NONE	SUIT (JUNIOR) W/A-V	$11,000.00
1/50 SC	NONE	EXPLRNG SOLAR SYS PNL DP	$4,500.00
1/48 SC	NONE	SPC SHUTTL ORB/747 MDL	$2,500.00
1/48 SC	NONE	EXPLRNG SOLAR SYS PNL DP	$4,500.00
1/50 SC	NONE	SPACELAB CUTAWAY MDL	$1,530.00
NONE	NONE	SPACE SHTLE STACK MODEL	$1,500.00
APOLLO	1719	SHUTTLE STACK MODEL	$733.00
1/15 SC	NONE	SPACE SHTLE STACK MODEL	$1,500.00
1/15 SC	NONE	SPACE SHTLE STACK MODEL	$1,500.00
APOLLO	1716	SATURN V MODEL	$2,000.00
GEMINI	NONE	SATURN V MODEL	$250.00
NONE	NONE	SHUTTLE STACK MODEL	$733.00
APOLLO/HAISE	404/003	1/20 SC SHUTTLE MDL MKUP	$200.00
SPACE SHUTTLE	NONE	SSV WIND TUNNL MDL 39-0	$150,000.00
APOLLO/STAFFORD	015,013	WATER METERING DEVICE	$1,200.00
NONE	NONE	SPACE SHUTTLE ORBITR MDL	$3,500.00
NONE	NONE	SHUTTLE ORBITR DISPLY BS	$6,500.00
NONE	NONE	WATER METERING DEVICE	$1,200.00
NONE	NONE	PARACHUTE	$500.00
NONE	NONE	DISPLAY, SIGHTSEEING, A SPACE PANORAMA	$71,400.00
APOLLO	1720	COVER LAYER	$500.00
NONE	NONE	PRSR GRMNT ASSY W/LNR AY	$1,000.00
NONE	NONE	SHUTTLE THERMAL TILES(24)	$192.00
1/3 SC	M69/5	1 LOT SCRP SHTL TILES-28	$140.00
1/3 SC	NONE	1 PC MCKUP SHTL INFLT GT	$150.00
1/100 SC	NONE	SHUTTLE FLT SUIT, 1 PC	$49.28
NONE	034	SCRAP SHTLE TILES (47 EA)	$8,225.00
NONE	015	WATER METERING DEVICE	$1,200.00
NONE	3356	SPACE FOOD TRVLNG DISPLY	$4,311.90
NONE	NONE	STS1 SHTL ORB THRML TLES	$3,886.00
1/4 SC	NONE	GEMINI MODEL	$2,275.00
1/4 SC	NONE	MERCURY MODEL	$5,000.00
APOLLO	J/7	SPACE SHUTTLE STACK MDL	$250.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	018/04/208	PRSSUR GRMNT ASSY W/EH	$102,000.00
NONE	MSF 40/5	HELMET	$1,000.00
NONE	MSF-44/8	FECAL CONTAINMT SYSTEM	$100.00
1/4 SC	NONE	URINE COLL TRANSF ASSY	$100.00
1/4 SC	NONE	MERCURY MODEL	$5,000.00
NONE	MSF36/30	LUNAR MODULE MODEL	$2,500.00
NONE	NONE	GEMINI MODEL	$1,000.00
NONE	NONE	SUIT	$1,000.00
1/96 SC	NONE	LUNAR EXLORATION DIORAMA	$3,000.00
APOLLO	024	SPACE SHUTTLE DIORAMA	$3,000.00
NONE	NONE	COMMAND SRV MODULE MODEL	$2,500.00
1/50 SC	NONE	LUNAR MODULE MODEL	$2,500.00
NONE	NONE	APOLLO SUIT MOCKUP	$900.00
1/10 SC	NONE	MERCURY MODEL	$5,000.00
NONE	NONE	APOLLO COMMAND MODULE MU	$50,000.00
1/100 SC	NONE	SATURN V MDL W/DISPLY CS	$700.00
1/40 SC	NONE	HELMET,LEXAN W/BL NK RNG	$2,000.00
NONE	NONE	FIREFIGHTING BRTHNG SYS	$500.00
1/3 SC	M79/14	ASTP MODEL	$328.00
NONE	NONE	APOLLO 17 LUNAR RK DISPL	$500.00
1/4 SC	M40/36	LUNAR MODULE MODEL	$1,000.00
APOLLO 6	063628AG412	HALF SUIT W/MANNEKIN DIS	$800.00
1/96 SC	304	SPC SHUTTL ORB/747 MDL	$350.00
1/100 SC	116	COMMAND SRV MODULE MODEL	$40.00
1/96 SC	NONE	GLOBE,LUNAR	$19.80
APOLLO	NONE	APOLLO COMMAND MODULE	$6,500.00
APOLLO	NONE	MOON MODEL, WITH BASE	$6,916.00
NONE	NONE	GEMINI MODEL	$5,000.00
APOLLO	NONE	WINDOW,INNER DOOR S/C020	$500.00
NONE	NONE	SATURN V MODEL	$200.00
APOLLO	NONE	SPACE SHUTTLE STACK MDL	$250.00
APOLLO	NONE	SPCE SHTTL STAK MDL-OLD	$1,000.00
SKYLAB	NONE	NAMETAGS-ALDRIN(25)	$25.00
NONE	NONE	NAMETAGS-ARMSTRONG(25)	$25.00
NONE	003	NAMETAGS-BEAN (24 pcs)	$24.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	1008	NAMETAGS-COLLINS(25)	$25.00
NONE	1003	NAMETAGS-CONRAD(25)	$25.00
NONE	1014	NAMETAGS-GARRIOTT(25)	$25.00
NONE	1002	NAMETAGS-GORDON(25)	$25.00
NONE	019	NAMETAGS-LOUSMA(25)	$25.00
APOLLO	1177	NASA EMBLEMS(25)	$25.00
NONE	1123	BOOT ASSY (1 PR)	$25.00
APOLLO	1095	CRIPPEN SHIRT ASSY	$50.00
APOLLO	1093	BOBKO TROUSER ASSY	$50.00
NONE	004	BOBKO SHIRT ASSY	$50.00
NONE	1219	THORNTON TROUSER ASSY	$25.00
NONE	1027	BEAN ITMG	$50.00
NONE	0224	MITCHELL INFLT CVRAL JKT	$1,000.00
1/100 SC	NONE	COOPER INFLT CVRALL JKT	$50.00
1/3 SC	M79/4	LOVELL BOOT ASSY	$50.00
1/40 SC	M23/2	COLLINS BOOT ASSY	$50.00
1/96 SCALE	303	GIBSON OWS BOOTS	$50.00
1/10 SC	0/11	DUAL LIFE VEST ASSY	$50.00
1/10 SC	M7/12	RUCKSAC 28 DAY CLTHG KIT	$50.00
NONE	FAE1000-E	BEAN GLOVE MOLD (1 PR)	$50.00
APOLLO	ALSEP/1	SPACE SHUTTLE STACK MDL	$50.00
1/96 SC	M77/5	APOLLO COMMAND MODULE	$500.00
1/96 SC	NONE	LUNAR MODULE MODEL	$6,500.00
1/48 SC	NONE	MODEL, SATURN V	$80.00
1/6 SC	NONE	APOLLO COMMAND MOD MDL	$200.00
1/40 SC	NONE	GEMINI MODEL	$410.00
NONE	NONE	APOLLO INSTRUMENT PANEL	$125.00
NONE	NONE	ALSEP MOCKUP	$4,000.00
RTV 19718 501	001	VEHICLE ASSMBLY BLDG MDL	$60,000.00
1/25 SC	NONE	SKYLAB MODEL	$16,000.00
308A/J MAURER	1037,MU1005,+	ASTP MODEL	$1,015.00
NONE	NONE	APOLLO CMD SERV MOD MODL1	$1,000.00
ACSK-10	NONE	SPACE SHUTTLE STACK MDL	$10,000.00
SKYLAB	001	ARTWRK,PNTINGS,EARLY STL	$775.00
APOLLO	NONE	MERCRY MCKUP SUIT ON MNK	$1,200.00
			$1,500.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	026	LUNAR ROVER VEH WIRE WHL	$1,000.00
APOLLO VII)	06359-0362-ARA	SPACE STATION W/ ORBITOR	$35,000.00
APOLLO 15	06359-0366A	STILL PICTURE CAMRA,16MM	$20,000.00
SKYLAB	A046	10 PC SHUTTLE FOOD	$2.00
NONE	1003	OPTICS SHROUD ASSY	$100.00
NONE	0062AAJ4870	PARASOL & DEPLOY MECH	$1,000.00
NONE	AC2	1/20SC PLEXI C-A-W CM MD	$1,500.00
NONE	1044	CAMERA TV (NASA 902744)	$20,000.00
APOLLO	114	THRUSTER (S/C 101)	$5,300.00
APOLLO	112	THRUSTER (S/C112)	$5,300.00
GIBSON	309/309A/317	SOAP BAR	$1.00
APOLLO/WORDEN	56/403	PERSONAL HYGIENE KIT	$500.00
APOLLO/ENGLE	083/064/302	VACCUUM CLEANER	$347.00
APOLLO/IRWIN	312	NOUN PANEL	$3,000.00
SKYLAB	610	EVA TETHER	$5,000.00
APOLLO	105	LEM (S-BAND) STRBLE ANTN	$100,750.00
APOLLO/HAISE	324	LEM (S-BAND) ERCTBLE ANT	$42,500.00
APOLLO/COVINGTN	DVT-004/-004B	LEM (S-BAND) ERCTBL ANTN	$42,500.00
APOLLO/DUKE	323/323A/323B	ITLSA PRSR GARMT ASSY	$1,000.00
APOLLO/SCOTT	319	ITLSA PGA	$1,000.00
SKYLAB/POGUE	305	ITLSA PGA	$1,000.00
APOLLO/SCOTT	103/088/021/015	ITLSA PGA	$1,000.00
APOLLO/EVANS	407	ITMB ASSY W/BOOTS	$1,000.00
NONE	DVT-001	ITLSA PRSR GARMENT ASSY	$1,000.00
NONE	403	ITLSA PSRE GARMENT ASSY	$1,000.00
STAFFORD	067	COVER LAYER W/BT CVRS	$500.00
APOLLO/IRWIN	035,104	ITLSA	$1,000.00
APOLLO/MATTINGL	005,406,410	PRESSURE GARMENT ASSY	$500.00
KERWIN	603	COVER LAYER W/BT COVERS	$500.00
VONEHRENFREID	301,103	COVER LAYER ASSY	$500.00
NONE	2033	IVCL ASSY/VON EHRENFRIED	$500.00
NONE	2012	COVER LAYER ASSY/BRAND	$500.00
NONE	2029	COVER LAYER(TMG) ASSY	$500.00
NONE	2023	COVER LAYER(TMG) ASSY	$500.00
NONE	2016	COVER LAYER ASSY	$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	2020	ITLSA	$1,000.00
NONE	2025	ITLSA W/BOOTS	$1,000.00
NONE	2032	INFLGHT COVERALL SET	$100.00
NONE	2013	INFLGHT COVERALL SET	$100.00
NONE	2003	INFLGHT COVERALL SET	$100.00
NONE	2027	INFLGHT COVERALL SET	$100.00
NONE	2038	INFLGHT COVERALL SET	$100.00
NONE	2034	INFLGHT COVERALL SET	$100.00
NONE	2035	INFLGHT COVERALL SET	$100.00
NONE	2006	INFLGHT COVERALL SET	$100.00
NONE	2002	INFLGHT COVERALL SET	$100.00
NONE	2057	INFLGHT COVERALL SET	$100.00
NONE	2008	INFLGHT C0VERALL SET	$100.00
NONE	2030	INFLGHT COVERALL SET	$100.00
NONE	2043	INFLIGHT JACKET, MR	$100.00
NONE	2055	INFLIGHT JACKET, MR	$50.00
NONE	2031	INFLIGHT JACKET, MR	$50.00
NONE	2056	INFLIGHT JACKET, ML	$50.00
NONE	2054	INFLIGHT JACKET, SL	$50.00
NONE	2040	INFLIGHT JACKET, MR	$50.00
NONE	2010	INFLIGHT JACKET, MR	$50.00
NONE	2034	INFLIGHT JACKET, MR	$50.00
NONE	2035	INFLIGHT JACKET, MR	$50.00
NONE	2011	INFLIGHT JACKET, MR	$50.00
NONE	2014	INFLIGHT JACKET, ML	$50.00
NONE	2021	INFLIGHT JACKET, ML	$50.00
NONE	2047	INFLIGHT JACKET, MR	$50.00
NONE	2048	INFLIGHT JACKET, MR	$50.00
NONE	2019	INFLIGHT TROUSERS, ML	$50.00
NONE	2052	INFLIGHT TROUSERS, ML	$50.00
NONE	2018	INFLIGHT TROUSERS, ML	$50.00
NONE	2045	INFLIGHT TROUSERS, MS	$50.00
NONE	2039	INFLIGHT TROUSERS	$50.00
NONE	2024	INFLIGHT TROUSERS	$50.00
NONE	2007	INFLIGHT TROUSERS, SL	$50.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	2010	INFLIGHT TROUSERS	$50.00
NONE	2036	INFLIGHT TROUSERS, SL	$50.00
NONE	2022	INFLIGHT TROUSERS, ML	$50.00
NONE	2017	INFLIGHT TROUSERS, SS	$50.00
NONE	2037	INFLIGHT TROUSERS, ML	$50.00
NONE	2001	INFLIGHT TROUSERS, ML	$50.00
NONE	2028	INFLIGHT TROUSERS, MR	$50.00
NONE	2006	INFLIGHT TROUSERS, ML	$50.00
NONE	2026	INFLIGHT TROUSERS, ML	$50.00
WEITZ	604	INFLIGHT TROUSERS, ML	$50.00
APOLLO/SCOTT	311	INFLIGHT TROUSERS, ML	$50.00
APOLLO/HAISE	305	INFLIGHT TROUSERS, ML	$50.00
KERWIN	307	INFLIGHT TROUSERS, LR	$50.00
APOLLO/SCOTT	039	INFLIGHT TROUSERS, ML	$50.00
APOLLO/SCOTT	016	INFLIGHT TROUSERS, ML	$50.00
SHEPARD	088	INFLIGHT TROUSERS, MR	$50.00
APOLLO/CERNAN	330	PRSR GRMT ASSY W/CVR LYR	$1,000.00
APOLLO/WORDEN	408	PRSR GRMNT ASSY W/CVR LR	$1,000.00
WEITZ	031	PRSR GARMENT ASSY	$1,000.00
KERWIN	104	PRSR GRMNT ASSY W/ARM AY	$1,000.00
NONE	040	PGA COVER LAYER	$100.00
CONRAD		PGA CVR LYR W/BOOT ASSY	$100.00
WORDEN	096	ITMG COVER LAYER	$500.00
IRWIN	083	ITMG ASSY,CVR LAYER	$250.00
WEITZ	116	COVER LAYER ASSY	$500.00
GORDON	123	FECAL CONTAINMT SUBSYS	$20.00
NONE	057	FECAL CONTAINMT SUBSYS	$20.00
BRAND	088	FECAL CONTAINMT SUBSYS	$20.00
KERWIN	603	FECAL CONTAINMT SUBSYS	$20.00
NONE	NONE	FECAL CONTAINMT SUBSYS	$20.00
NONE	NONE	FECAL CONTAINMT SUBSYS	$20.00
APOLLO 15	1022	FECAL CONTAINMT SUBSYS	$20.00
SKYLAB/KERWIN	1578	FECAL CONTAINMT SUBSYS	$20.00
SKYLAB/WEITZ	1502	FECAL CONTAINMT SUBSYS	$20.00
SKYLAB/CONRAD	1528	FECAL CONTAINMT SUBSYS	$20.00

Part/Model #	Serial # (if applicable)	Description	Cost
APOLLO IX	036,046	CVR LYR W/BT & ARM ASSY	$250.00
APOLLO 16/DUKE	1474	CLOTHING SHIPSET	$44.94
APOLLO 16/YOUNG	1375	CLOTHING SHIPSET	$7.28
APOLLO 16/MATTG	1381	INFLT EXRCSR W/BG S/C112	$100.00
NONE	1404	CNSTNT WR GRMT S/C116	$25.00
NONE	1294	CNSTNT WR GRMT S/C116	$25.00
NONE	1059	CNSTNT WR GRMT S/C116	$25.00
NONE	1	FCL CNTNMT SUBSYS S/C104	$100.00
SKYLAB 1/CONRAD	1084	CNSTNT WR GRMT S/C 113	$25.00
NONE	06362AAG8900	CNSTNT WR GRMT S/C113	$25.00
APOLLO 8	118	CNSTNT WR GRMT S/C 113	$25.00
NONE	NONE	PENLIGHT (ROCKET)	$7.00
SKYLAB 3	1051,120,000033	BALL POINT PEN (FISHER)	$7.00
NONE	NONE	PENCIL (GARLAND)	$2.00
SKYLAB 2	145,2258	PENLIGHT (ROCKET)	$1.00
SKYLAB 2	129	JACKET ASSY	$50.00
SKYLAB 2	153	DEBRIS TRAP (3 PCS)	$1,500.00
APOLLO 15	032	AUDIO TAPE	$20.00
STAFFORD	6222	CCU CABLE	$5.00
NONE	06362AAJ8828	OPERATNL BIO-INSTRUM SYS	$21.00
NONE	1008	CHECKLIST	$20.00
NONE	06362AAH8219	CNSTNT WR GRMT S/C116	$10.00
CONRAD	3353	CNSTNT WR GRMT ELEC HRNS	$10.00
NONE	NONE	CNSTNT WR GRMT ELEC HRNS	$10.00
NONE	1	CNSTNT WR GRMT ELEC HRNS	$15.00
NONE	1023	URINE COLL TRANSF ASSY	$20.00
NONE	1021	CCU HEADS (3)	$15.00
SKYLAB 2	151,370	SAMPLE BAG CONTAINER	$100.00
APOLLO XVI	1006	TARGET DOCKING ADAPTER	$5.00
APOLLO 16	3985	URINE COLL TRANSF ASSY	$80.00
APOLLO X/CERNAN	1173	HELMET VENT PAD	$10.00
APOLLO X/YOUNG	1178	PENLIGHT ASSY	$2.00
GAF ST/1002	NONE	INK PEN (BRKN CLIP)	$7.00
NONE	B001	INK PEN & LANYARD	$7.00
APOLLO XVI	1007	CNSTNT WR GRMT ELEC HRNS	$10.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	ADAPTER,16MM CMRA,SXTANT	$15.00
NONE	06362AAJ8832	URINE COLL TRANSF ASSY	$10.00
STS-2	NONE	CNSTNT WR GARMENT	$100.00
NONE	1462	CNSTNT WR GARMENT	$100.00
NONE	06362AAH5448	CAMERA,8MM MOTN PIC	$300.00
STS-2 ENGLE	NONE	SPEAKER BOX (NON-FLT)	$50.00
NCR	102	ADAPTER,CAMERA,S/C 114	$20.00
NONE	NONE	SLEEP KIT(EYE CVS,EAR PL	$10.45
NONE	NONE	CCU CABLE	$12.00
NONE	NONE	SHTTLE ORB THRML SYS TLS	$300.00
NONE	17	PSLSS STRAPS & CNTNR	$32.00
NONE	15	CCU CABLE	$25.00
NONE	12	PERSONAL HYGIENE KIT	$29.26
NONE	14	TELEPRINTER UNIT	$20,000.00
NONE	21	OLD CONFIG SHTLE MODEL	$200.00
NONE	18	OLD CONFIG SHTLE MODEL	$200.00
NONE	22	OLD CONFIG SHTLE MODEL	$200.00
APOLLO 15	NONE	HAZ ENVRNMTL BRTHNG SYS	$500.00
NONE	NONE	HAZ ENVRNMNTL BRTHNG SYS	$500.00
NONE	NONE	HAZ ENVRNMTL BRTHING SYS	$500.00
NONE	NONE	HAZ ENVRNMTL BRTHING SYS	$500.00
NONE	06362AAJ2629	HAZ ENVRNMTL BRTHING SYS	$500.00
SKYLAB/WEITZ	1025	HAZ ENVRNMTL BRTHING SYS	$500.00
SKYLAB/CONRAD	1017	HAZ ENVRNMTL BRTHING SYS	$500.00
SKYLAB/KERWIN	1021	DDR TAPE	$10.00
SKYLAB	0000013	HELMET SHIELDS (2)	$20.00
STS-1	NONE	VISOR, HELMET	$10.00
NONE	1126,203,232+	SUN VISOR	$10.00
NONE	1124,237,230+	UMBILICAL, 02	$10.00
NONE	1126,231,202+	BOOT ASSY	$50.00
APOLLO	NONE	BOOT ASSY	$50.00
APOLLO	NONE	BOOT ASSY	$50.00
SKYLAB	0000005/2420103	CAMERA FILTER RETURN CON	$20.00
SKYLAB	0000002/2050119	SHTLE ORB THRML SYS TILS	$500.00
NONE	NONE	HRNS ASSY,BIO-BELT	$10.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	117,217	HRNS ASSY,BIO-BELT	$10.00
NONE	127,217	HRNS ASSY,BIO-BELT	$10.00
NONE	115,215	LSR RNGING RET REFLT MU	$3,500.00
NONE	NONE	1/4 SC COMM SERV MOD MU	$2,500.00
NONE	112	EREP TAPE RECORDER SYS	$37,500.00
APOLLO	123	EREP REPROD/RECORDER	$37,500.00
SKYLAB	SEZ36109557-301	OXYGEN PURGE SYS MOCKUP	$50.00
SKYLAB	SK840220110-009	HRIZN SENS SYS W/SENS HD	$100.00
NONE	LDW340-60714-5	HRIZN SENS SYS W/SENS HD	$100.00
NONE	LDW340-60714-6	HRIZN SENS SYS W/SENS HD	$100.00
NONE	NONE	MISC FLT HRDW, GRAY	$700.00
NONE	003	RENDEVZ RADR & HANDL KIT	$1,000.00
NONE	008	ANTENNA,RADAR RENDEZVOUS	$1,000.00
NONE	1005	CREWMAN SHOWER	$500.00
NONE	1002	EREP TAPE RECORDER	$37,500.00
NONE	1008	HAND-RAIL ASSY	$50.00
NONE	X8	HAND-RAIL ASSY	$50.00
NONE	1042	PERSONAL HYGIENE KIT	$6.92
NONE	1019	RCA TV CAMERA	$50,000.00
NONE	X6,106	RCA COLOR TV CAMERA SET	$50,000.00
NONE	1030	BINOCULAR,20X60MM,TASCO	$80.00
NONE	M1	CAMERA LENS,35MM,NIKON	$300.00
NONE	1041	CAMERA LENS;SWITAR KERN	$250.00
NONE	P1001	CAMERA LENS,18MM,HEITZ+	$500.00
NONE	1011	CAMERA LENS,75MM;SWTKERN	$400.00
NONE	0009	CAMERA LENS,18MM,SWTKERN	$500.00
NONE	1003	CAMERA LENS,FAIRCHILD	$3,000.00
NONE	1003	CPU, MICRO	$20,000.00
NONE	1006	MAGAZINE FILM,16MM	$1,000.00
NONE	A1033	CPU, MICRO	$5,000.00
NONE	1044	BINOCULAR,10X40,122M,TRN	$400.00
APOLLO CM	1043	CPU, MICRO	$4,000.00
APOLLO CM	1042	CAMERA,STILL PCTR,16MM	$650.00
SKYLAB	1004	CAMERA,BODY AEC,35MM,NIK	$2,000.00
GEMINI	1045	CAMERA LENS,55MM,NIKON	$150.00

Part/Model #	Serial # (if applicable)	Description	Cost
GEMINI	17	CAMERA LENS,25MM,ANGENIX	$400.00
NONE	1035,1017	CANISTER FLM,16MM,MAURER	$1,000.00
NONE	1001,1004	CANISTER FLM,16MM,MAURER	$1,000.00
NONE	1005	POWER CABLE,16MM	$25.00
NONE	1007	POWER CABLE,16MM	$25.00
NONE	1044,1046	POWER CABLE, 16MM	$25.00
NONE	1008	POWER CABLE, 16MM	$15.00
NONE	1002	POWER CABLE, 16MM	$15.00
NONE	1063	RIGHT ANGLE MIRRORS (2)	$20.00
NONE	1005,1001	UNIVERSAL MOUNT	$100.00
NONE	1444,1001	SPOTMETER(SPC MTR),MINOL	$150.00
NONE	1059	AUTOMATIC FLASH,HONEYWLL	$100.00
NONE	10	FLASH BATTERIES-2 BT PAK	$10.00
NONE	10	BRACKET ASSY,35 MM	$75.00
NONE	B1001	VARIABLE EXPSR TMR,NIKON	$50.00
NONE	1008	SPOTMETER BATTERY	$10.00
NONE	1006HRE	AUTO FLASH ASSY,35MM,NKN	$60.00
NONE	10028DAN1027	FILM CASSETTES,35MM	$2.00
NONE	006	BTRY,ELEC CMRA,35MM,NKN	$5.00
NONE	TRAIN.1001	TWIN FILTER SLIDE HLDRS	$30.00
APOLLO	NONE	HAZE FILTER	$10.00
NONE	002	TAPE CASSETTE KIT	$15.00
NONE	1006	PILOTS CLIPBOARD,AERO	$25.00
NONE	A1003	BINOCULARS,10X49,LZWZLR	$100.00
STS17	2211A00440	INDICATOR,ATTIT FLT DIR	$17,957.00
SKYLABW/SL FOOD	NONE	RCA TV CAMERA CONTROL MT	$34,250.00
SKYLAB	NONE	WSTNGHS TV CMRA W/MU ZM	$15,000.00
1/3 SC	M80/4	COMMAND SVC MODULE MODEL	$100.00
1/3 SC	M79/5	PRSR CONTROL UNIT	$50.00
1/48 SC	M86/46	CAMERA,ABC DATA,NIKON	$1,000.00
1/4 SC	M40	CAMERA LENS,55M,F1.2,NIK	$150.00
1/48 SC	NONE	FLOWN MLG TIRE (SHUTTLE)	$3,835.00
1/200 SC	NONE	WHALE BONE STRG INSRTS	$21.00
ACSK-18	NONE	HIGH DENSITY SURV BARS	$310.00
APOLLO	LRL-3	LUNAR MODULE MODEL	$6,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	APOLLO COMMAND MODULE ML	$6,000.00
NONE	NONE	SKYLAB MODEL	$1,000.00
WEITZ STS-6	NONE	MODEL, GEMINI	$1,000.00
PETERSON STS-6	NONE	SATURN IB MODEL	$500.00
SKYLAB	638,638B	SPACE STATION MODEL	$1,700.00
NONE	1002	OPTICS SHROUD ASSY	$100.00
NONE	2D628-SP2-051	LUNAR SAMPLE RET CONTNR	$25,000.00
1/96 SC	NONE	SLEEP KIT-EYECVRS+EARPLG	$8.00
1/48 SC	27	SLEEPKIT-EYECVRS+EAR PLG	$8.00
1/48 SC	NONE	PERSONAL HYGIENE KIT	$15.00
APOLLO/YOUNG	015	PERSONAL HYGIENE KIT	$15.00
APOLLO/COLLINS	010	PRESSURE GRMT ASSY	$100.00
APOLLO/CERNAN	055	BRTHNG APPARTS EGRESS	$1,044.00
APOLLO/CERNAN	1071	STOWAGE CABINET	$2,400.00
2001730	2AP274	SKYLAB MODEL	$490.00
1/10 SC	M7/11	SATURN IB MODEL	$1,200.00
1/96 SC	193	SATURN V MODEL	$800.00
1/50 SC	NONE	IVLC	$100.00
1/40 SC	NONE	IVLC	$100.00
SKYLAB/BEAN	1017	ITMG	$100.00
1/40 SC	M2/2	BOOT ASSEMBLY	$50.00
1/48 SC	M75/3	MATCHD PENDLM & MDL ASSY	$4,500.00
1/48 SC	M86/44	GEMINI MODEL	$125.00
1/100 SC	676	SKYLAB MODEL	$690.00
NONE	NONE	SPACE SHUTTLE ORBTR MDL	$650.00
1/96 SC	192	LUNAR MODULE MODEL	$25.00
1/8 SC	M17/5	COVERALL GARMENT ASSY	$300.00
1/8 SC	M9/16	APOLLO CSM MODEL	$140.00
1/8 SC	M12/13	SATURN V MODEL	$800.00
1/8 SC	M72/29	SKYLAB MODEL	$1,000.00
1/8 SC	M11/12	SPACE SHUTTLE STACK MDL	$250.00
1/8 SC	M5/4	LUNAR SAMPLE CASE,WIPO	$3,500.00
SKYLAB/LENOIR	1065/1118	SKYLAB MODEL	$690.00
NONE	06362AAJ9887	MARINER MODEL	$90.00
1/10 SC	NONE	ORBITING SLR OBSERV MDL	$140.00

Part/Model #	Serial # (if applicable)	Description	Cost
1/8 SC	NONE	ALOUETTE MODEL	$140.00
1/12 SC	NONE	MARINER VII MODEL	$310.00
1/50 SC	NONE	EXPLORER XII MODEL	$100.00
1/100 SC	NONE	TIROS MODEL	$75.00
NONE	NONE	COVERALL GARMENT ASSY	$300.00
1/20 SC	NONE	URINE BAG S/C 111 (ASTP)	$250.00
NONE	NONE	GEMINI MODEL	$125.00
NONE	NONE	NIMBUS MODEL	$150.00
NONE	NONE	LUNAR MODULE MODEL	$100.00
1/100 SC	669	ASTP MODEL	$328.00
9 PANELS	NONE	SPACE SHUTTLE STACK MDL	$250.00
NONE	NONE	GLOBE,LUNAR	$19.80
1/55 SC	31	COMMAND SRV MOD CUTAWAY	$150.00
1/10 SC	NONE	ANTARCTIC METEORTE DISPL	$5,250.00
1/100 SC	MSF41/33-40	ENCPSLTED METEORTE SMPLS	$2,250.00
1/40 SC	NONE	TBL TOP EXB FOOD FOR SPC	$772.00
NONE	KHL 39	SPACE SHUTTLE STACK MDL	$400.00
1/10 SC	NONE	MANNED SPACE FLT HISTORY	$7,000.00
APOLLO	079	APOLLO HISTORCL PNL DISP	$5,821.49
CHALLENGER	NONE	SATURN 1-B MODEL	$240.00
APOLLO	NONE	GEMINI MODEL	$600.00
APOLLO	NONE	SPACE SHUTTLE STACK	$675.00
1\48 SC	NONE	SPACE SHUTTLE STACK MDL	$775.00
NONE	C001	SIM LNR SAMPLES 7 IN CS	$500.00
APOLLO	1047	SPACE SHTLE ORBITR MDL	$1,500.00
APOLLO	054,046	GLOVE, RT	$100.00
APOLLO	075	ORBIT OPS CHKLST,STS-41B	$5.00
APOLLO	NONE	MAIN PARACHUTES	$200.00
APOLLO	224529	FLAG COMM"LNDNG OF EAGL"	$50.00
APOLLO	063600844101	SPACE SHUTTLE MODEL	$200.00
APOLLO	063600844102	ASTP HI FI TRNG UN MA106	$600.00
APOLLO	063600844109	CERNAN INFLT SUIT	$250.00
APOLLO	063600844106	GORDON PRSR GRMNT ASSY	$10,000.00
10101-20001-04	NONE	LOVELL PRSR GRMNT ASSY	$10,000.00
APOLLO 14	091	APOLLO SVC PROP SYS ENG	$10,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	APOLLO CM THRSTR/RKT ENG	$2,000.00
NONE	1001	APOLLO CM THRSTR/RKT ENG	$2,000.00
APOLLO/SCOTT	0207	APOLLO CM THRSTR/RKT ENG	$2,000.00
NONE	NONE	APOLLO CM THRSTR/RKT ENG	$2,000.00
1/40 SC	NONE	JACKET, SHUTTLE INFLIGHT	$2,000.00
1/40 SC	NONE	WESTINGHS CLR TV CMRA	$250.00
APOLLO/SOYUZ	A4006,1369953+	PRSR GARMT ASSY W/IVCL	$110,000.00
1/12 SC	0/14	SOYUZ TV SCENE LIST	$1,000.00
SHTTL MSN 41-B	06E2711	ASTP MALFNCTN PROCED BK	$10.00
P BAUDRY	NONE	GLOVE MOLD (1 PR)	$150.00
SED33102941-301	NONE	GLOBE,LUNAR	$80.00
J RESNIK	NONE	LUNAR MODULE MODEL	$19.80
1/3 SC	M80/17	COMMAND SRV MODULE MODEL	$25.00
1/100 SC	NONE	APOLLO,STACKUP MODEL	$300.00
1/40 SC	NONE	TRACKER-PULSR EDM	$800.00
NONE	NONE	FLIGHT SUIT 51-G	$4,886.00
AGL-400000-09	046	SHUTLE LAUNCH ENTRY CVRL	$1,117.00
1/100 SC	673	PERS HYGNE KIT & FEM PRF	$148.00
NONE	NONE	LUNAR MODULE MODEL	$288.39
APOLLO/ALDRIN	NONE	SPACE SHUTTLE STACK MDL	$11,500.00
NONE	1028,051,103,+	COMMAND SRV MODULE MODEL	$400.00
NONE	NONE	SHUTTLE FLT SUIT,1 PC	$300.00
NONE	NONE	LIQUID COOLING GRMT ASSY	$49.28
NONE	NONE	SPACE SHUTTLE STACK MDL	$1,000.00
NONE	NONE	LUNAR ROCK REPLICA	$400.00
1/100 SC	NONE	SUIT,EMU	$275.00
NONE	NONE	SHUTTLE GLOVES, 1 SET	$5,000.00
NONE	NONE	SHUTTLE HELMET,RED NK RG	$18,400.00
1/100 SC	NONE	CLR PLXGLS SHTLE MDL	$13,300.00
1/15 SC	NONE	MARINER 9 MARS GLOBE MDL	$300.00
SV731880-1-1	001	GLOBE,LUNAR	$160.00
P/N SEB39107047	1003	SHUTTLE STACK MDL-CHALLG	$19.80
SEB39100319207	104	APOLLO HISTRCL PNL DISPL	$270.00
SEB39100340202	2013	MOON RCK REPLICA 15498	$5,821.49
A6710200301	006		$400.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	SPACE SHUTTLE STACK MDL	$400.00
1/15 SC	NONE	SHUTTLE ORBITER BASE	$4,000.00
1/8 SC	NONE	PRESSURE SUIT ASSY	$5,000.00
NONE	017	LUNAR SCOOP, APOLLO 17	$500.00
NONE	NONE	HAMMER,TRAINING,APOLLO 17	$200.00
NONE	NONE	LUNAR TONGS, APOLLO	$500.00
NONE	NONE	HELMET,LEXAN,BL NCK RNG	$5,000.00
NONE	NONE	MARS GLOBE,1973 EDITION	$100.00
NONE	NONE	SPACE SHUTTLE ORIBTR MDL	$3,500.00
NONE	NONE	MODEL, SPACE SHUTTLE ORBITER	$10,500.00
NONE	NONE	HELMET ASSY W/RED NCK RG	$1,000.00
NONE	NONE	1837 SURVEY MAP OF CLEAR LAKE	$100.00
NONE	NONE	TRACING OF CITY/MARINER 7	$25.00
N WEISSMORE	NONE	PAINTING, FIANCEE OF SPACE	$250.00
NONE	NONE	CERTIFICATE OF APPRECIATION FOR BICENTENNIAL	$100.00
APOLLO 11	NONE	ASTP PLAQUE	$1,000.00
APOLLO 8	NONE	PNTNG,CARTOON ASTP CREW	$500.00
N WEISSMORE	NONE	REPLICA STATUE RSN SCIEN	$800.00
NONE	NONE	PORTRT OF YURI GARGARIN	$500.00
NONE	NONE	DECRTV GEORGIAN PANNEAU	$800.00
APOLLO 11	NONE	PLQUE APOLLO 11 SCENE	$500.00
NONE	NONE	PLAQUE TO APOLLO CREW	$100.00
NONE	NONE	REPLICA LM LEG PLAQUE	$200.00
K LOLADZE	NONE	PLAQUE W/FLT MEDLLNS(2)	$300.00
APOLLO 11	NONE	PLAQUE APOLLO 1 FLT EMBL	$500.00
ROTARY INTERNL	NONE	PLAQUE AMER LEG COMMENDN	$200.00
NONE	NONE	PLAQUE APOLLO 11 CREW	$300.00
NONE	NONE	PLAQUE"TUSS MCLGHRY AWD"	$100.00
NONE	NONE	POEM "SELENAUTICA"	$25.00
NONE	NONE	SOLAR CORONA & MOON PHOTO	$100.00
NONE	NONE	TAPESTRY TO ASTP CREW	$5,000.00
NONE	NONE	GUEST REGISTRY TO MSC	$100.00
NONE	NONE	PLAQUE TO NASA 2/80	$50.00
NONE	NONE	PLAQUE-CELTIC CROSS AWRD	$200.00
NONE	NONE	STATUETTE "G MARCONI"	$1,500.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	MDL "NATL SPACE AWARD"	$800.00
NONE	NONE	REPLCA STATUE "MAMAYEV"	$500.00
NONE	NONE	REPLCA STATUE "SUNRISE"	$1,000.00
NONE	NONE	SOYUZ MODEL TO APOLLO 14	$800.00
NONE	NONE	GEORGIAN PITCHER TO ASTP	$1,500.00
NONE	NONE	R GOTHEIL MDLLN TO ASTP	$1,000.00
NONE	NONE	PLAQUE IN MEMRY PROF KDB	$200.00
NONE	NONE	PLAQUE FROM '76 CHNA PGM	$100.00
NONE	NONE	COIN PRESENTED DR KRAFT	$200.00
NONE	NONE	STATUE DR KRAFT BY USSR	$1,000.00
NONE	NONE	Y GAGARIN MEDALLION	$1,000.00
NONE	NONE	REPLCA HYDROELEC PLNT	$750.00
APOLLO 11	NONE	PLAQUE DR KRAFT BY USSR	$500.00
WASH ASSOC MLTY	NONE	CATALOG OF TBILISI ACADM	$5.00
NONE	NONE	CATALOG TBILISI ACADMY	$5.00
NONE	NONE	RHGODDARD TROPHY	$1,500.00
NONE	NONE	NAT MGMT ASSOC PLAQUE	$20.00
NONE	NONE	PLAQ INST OF NAVIGATION	$15.00
NONE	NONE	PLAQ NAVAJO NATION	$100.00
NONE	NONE	RHGODDARD MEMRL TROPHY	$2,500.00
NONE	NONE	PLAQUE TO JSC 1979	$25.00
NONE	NONE	MDLLN HOUS AWRD APOL 13	$1,000.00
NONE	1223	PLAQ NAT COUNCL BSA	$25.00
NONE	NONE	WLNT PLQ FROM HOUS CC	$50.00
NONE	NONE	UMILCL DISCNNCT ATLAS LV	$300.00
NONE	NONE	SILVER PROGRESS MEDAL	$500.00
NONE	NONE	CERTIF FR INDSTRL COLLGE	$15.00
NONE	NONE	BRICK FROM LINDBERGH BPL	$20.00
NONE	NONE	AWARD AM INST PROF GEOL	$5.00
STS-1	NONE	OMEGA MARINE CHRONOMTR	$5,000.00
1/100 SC	NONE	PLAQ NAT ACAD OF ART&SCI	$25.00
RL-10A-3	641804	NAT FIRE PROT ASSOC PLAQ	$15.00
R SHORE	NONE	APOLLO 11 COMM 1ST DY CV	$100.00
NONE	NONE	PLAQ LOGISTCL ORIEN TOUR	$20.00
NONE	NONE	STS1 COMMEMTV MEDAL	$100.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	14K YLW GLD SPC SHTL CHM	$750.00
A MCADAMS	NONE	2 SLVR FILIGREE REPROS	$200.00
A MCADAMS	NONE	SHUTTLE STACK MODEL	$270.00
NONE	NONE	ROCKET ENGINE	$10,000.00
P FJELD	NONE	PNTNG "ASTRONAUT"	$250.00
NONE	NONE	PNTING "ALL SYSTEMS GO"	$750.00
NONE	NONE	PNTNG "MISSION CONTROL"	$750.00
NONE	NONE	PAINTING "CAPE KENNDY"	$2,000.00
NONE	NONE	PNTNG "RANGE SAFETY"	$500.00
NONE	NONE	PNTNG"SPACEPORT"	$2,000.00
1/4 SC	NONE	LBJ BUST (REPLICA)	$5,000.00
GEMINI	87/347A	PNTNG"APLO-SYZ IN ORBIT"	$500.00
NONE	E/19	PNTNG "APLO-SYZ @ SUNRS"	$500.00
NONE	74-116	PNTNG "FIRST CREW"(SKY-L)	$500.00
NONE	001,002,003	PNTNG "LAUNCH OF SKYLAB"	$500.00
GEMINI	67	PNTNG "SKYLB CRW LAUNCH"	$500.00
GEMINI	NONE	DISPLAY PEDESTAL BASE	$1,000.00
GEMINI	NONE	GEMINI MODEL	$5,000.00
GEMINI	40	ENGINE RL-10,AGENA	$2,000.00
GEMINI	12	GEMINI ASTRONT WK STATN	$800.00
GEMINI	7	GEMINI EJECTION COUCH	$1,000.00
GEMINI 10	NONE	GEMINI FLIGHT LOGS (3)	$300.00
GEMINI 10	105	BIO-SENSORS	$50.00
GEMINI 11	181	URINE SAMPLE & VOL MEAS	$1,000.00
GEMINI 11	194	EXERCISER,INFLIGHT	$100.00
310	5	FUEL CELL W/WOOD BASE	$100.00
NONE	NONE	CAMERA,PUSH BUTTON,LEFT	$500.00
MERCURY	NONE	CRCT BRKR,CAMERA,GT-10	$25.00
NONE	WC/1	ADAPTER,CAMERA,EVA	$50.00
1/8 SC	NONE	MOUNT,CAMERA,GEMINI	$50.00
1/8 TH SCALE	NONE	MAGAZINE,FILM 6	$40.00
1/8 SC	NONE	MAGAZINE FILM 2	$40.00
1/8 SC	NONE	CAMERA U.V.GRTNG LENS AD	$100.00
1/8 SC	NONE	PNTNG "PERISCOPE"	$400.00
1/8TH SCALE	NONE	TPE RCRDR,URN DISP & HC	$1,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
1/48 TH SCALE	NONE	GEMINI INSTRUMENT PANEL	$2,000.00
GEMINI	104	SYNCOM MODEL	$60.00
NONE	NONE	EXPLORER XII MODEL	$110.00
NONE	NONE	TELSTAR MODEL	$90.00
NONE	NONE	RELAY MODEL	$95.00
10101-20001-04+	NONE	ALOUETTE MODEL	$140.00
APOLLO 14	0278979-100006	MODEL, NIMBUS	$160.00
APOLLO	237/294	SATURN V MODEL	$800.00
NONE	MS/1	MANEUVERING UNIT,HANDHLD	$5,000.00
NONE	NONE	MANNEQUIN,MALE	$425.00
NONE	JSC09147	2 PC SHTL INFLT SUIT	$1,300.00
NONE	JSC09212	2 PC SHTLE INFLT SUIT	$1,300.00
SKYLAB/GARRIOT	1070	INFLT COVERALL SUIT(SHIRT, JACKET, TROUSERS, GARMENT BAG)	$461.00
NONE	JSC09139	RT HD RN&VZ WINDW S/C110	$2,000.00
NONE	JSC09138	UMBILICAL ASSMBLY,COMM	$200.00
NONE	NONE	LUNAR SURFACE MOCKUP	$10,000.00
SKYLAB/LENOIR	1065	PNTNG "GEMINI WHITE RM"	$700.00
	652571004PPP	ASTP UPDATES BOOK	$25.00
SKYLAB/BEAN	1018	ASTP RENDEZVS TRG CHCKLT	$25.00
NONE	NONE	JACKET,INFLIGHT	$70.00
NONE	JSC09139	ASTP RENDEZVOUS BOOK	$25.00
NONE	JSC09144	ASTP FLIGHT PLAN SUPPLMT	$25.00
NONE	NONE	ASTP FLIGHT PLAN VOL I	$25.00
1/25SC,NASA5793	NONE	TROUSERS,INFLIGHT	$70.00
APOLLO	J/9	FIRE EXTINGUISHER	$3,000.00
APOLLO	T69	SHIRT,INFLIGHT	$25.00
APOLLO	T19	ASTP FLIGHT PLAN VOL II	$25.00
AP/CERNAN/LOVEL	009/126	ASTP RENDEZVOUS BOOK	$25.00
APOLLO	20	ASTP JOINT OPS CHECKLIST	$25.00
APOLLO	152	ASTP JNT OPS CHCKLST RUS	$25.00
APOLLO	2003	ASTP CUT-A-WAY MODEL	$1,906.00
APOLLO 16	2	LUNAR SURFACE UV CMRA	$200,000.00
APOLLO	003	SUIT (SCHMITT)	$5,000.00
APOLLO	TR1	T-35 TUBE	$50.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	T-35 TUBE	$50.00
APOLLO 11 CONFG	2006/3001	PRESSURE GARMENT ASSY	$91,000.00
MITDWG 20252091	NONE	MODEL,TG TRNG(TRVRS GRV)	$100,000.00
APOLLO 15	1003	LUNAR SCOOP	$500.00
NONE	A1003	LUNR SURFC COSMC RAY DET	$1,500.00
1/15 SC	NONE	LUNAR CLR SAMPL (GNOMON)	$50.00
NONE	NONE	LUNAR ROVER VEH FNDR(2)	$200.00
SKMMU1000	000001	LNR SAMP BAY DISP W/BAG	$100.00
STS8	NONE	XV-15 TLT RTR RES AIRCFT	$4,600.00
1/96 SC	NONE	LUNAR HAND SCOOP	$50.00
NONE	1002	CAMERA,35MM,NIKON	$1,000.00
NONE	NONE	CAMERA LENS,55MM,NIKON	$150.00
NONE	NONE	SPACE SHUTTLE STK MODEL	$19,679.00
1/48 SC	M75/3A	SHUTTLE EMU SUIT MOCKUP	$35,000.00
NONE	NONE	SHUTLE SUIT MOCKUP W/MMU	$10,000.00
M3-4640007001M	0673P650726	US FLAG FLOWN ON PFTA	$100.00
215832	117	SKYLAB MODEL	$1,000.00
NONE	001	EUV TELESCOPE,QUALIF MDL	$384,901.00
NONE	NONE	ASTP PRES GIFT BAG(TRNG)	$1,500.00
P CALLE	NONE	ASTP DOCKING RINGS DISPLA	$1,800.00
NONE		EARTH GLOBE,6' DIAMETER	$100,000.00
APOLLO LUNAR	STR-1	BASE,ROTATNG FOR GLOBE	$200.00
NONE	NONE	LAUNCH VEHICLE FAMILY	$5,000.00
NONE	009	PIONEER SATURN TRAJ EXB	$800.00
NONE	120	RENDEZVOUS RDR ASSY ANTN	$401,300.00
APOLLO	0002	RCA LASER ALTMTR QUAL UN	$100,000.00
NONE	NONE	FUEL CELL,APLO NASA & ID	$1,000.00
NONE	NONE	EXT TRCKNG LIGHT ASSY	$45,000.00
NONE	NONE	MURAL "OPNG SPC FRNTR+"	$37,990.00
R SHORE	NONE	PNTNG"ASTRNTS SURV TRNG"	$200.00
NONE	NONE	TRNR,CAMERA,EASTMAN KODK	$40,000.00
NONE	NONE	PNCL/WTRCLR LNR MOD MSN	$2,500.00
NONE	NONE	VYG RCD"SOUNDS OF EARTH"	$3,000.00
NONE	NONE	PNTNGS "MEN IN SPACE"	$600.00
APOLLO 13	NONE	DRWG "APOLO 11 PRS CRPS"	$1,000.00
NONE	NONE		

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	ARTWK "MAN EMRGS IN SPC"	$300.00
NONE	NONE	PNTNG "THE FIREMAN"	$250.00
NONE	NONE	PLAQ EJERCITO DE VENEZ	$25.00
NONE	NONE	PLAQ EQUAL OPPORT AWARD	$15.00
NONE	NONE	MDL OF FREEDM TO APOL 13	$1,000.00
NONE	NONE	PLQ W/FLN-RESTRCTR LM-7	$50.00
J KIKER	NONE	PLATE PRES TO DR KRAFT	$200.00
NONE	NONE	CERTIF TO DR KRFT FR IAA	$50.00
APOLLO 11	NONE	CERTIF TO APOLLO 15	$50.00
NONE	NONE	MDLLNS OF ASTP CRW MEMBR	$600.00
D KINGMAN	NONE	MDLLN RUSS/ENGL ASTP EMB	$1,000.00
NONE	NONE	REPLICA OF ASTP MEDALLN	$200.00
NONE	NONE	MDLLN RUSSN ASTP MSN EMB	$1,000.00
RL 10-A3	1805	MDL,US HGHST AWRD PARACH	$1,000.00
C4039	1023	1894 REPRNT INVST LNR TH	$50.00
NONE	NONE	PHTO ENLRGMT GDWLL MESSG	$300.00
SKYLAB 2/WEITZ	186	3D LNR GLOBE W/WOOD BASE	$75.00
APOLLO/GOODMAN	037	PNTNG"SATURN BLACKHSE"	$5,000.00
APOLLO/GOODMAN	004	PNTNG "MA-9"	$8,000.00
GEMINI	403	PNTING "GT5 RECOVERY"	$8,000.00
NONE	NONE	ENGNE,F/S W/HNDLR,J2 ENG	$200,000.00
60C20062-3	5035	ENGNE,RCKT,OUTBOARD H1	$205,000.00
GEMINI	NONE	EXHIBIT,RL-10 ENGINE	$4,000.00
MERCURY	NONE	ADAPTER,ROCKET ENGINE	$1,100.00
NONE	009,003,19,103	LBJ PORTRAIT W/FRAME	$3,600.00
MARK IV	362,149,1353,35	LIQ COOLNG GARMENT	$10,000.00
APOLLO/GORDON	069,047,510	SUIT ASSY	$100,000.00
NONE	128	PRESSURE GRMT ASSY	$10,000.00
NONE	132	PRESSURE GRMT ASSY	$10,000.00
NONE	NONE	PRSR GRMNT ASSY G4C-3	$15,000.00
NONE	NONE	SUIT,GLC-013 W/GLVS+	$25,000.00
NONE	NONE	SUIT,M7 SLAYTON W/GLVS+	$10,000.00
NONE	NONE	SUIT ASSY	$30,000.00
1010-20001-04+	NONE	SUIT ASSY (USN)	$30,000.00
APOLLO/CERNAN	010,554,085	PGA ASSY W/COMM CAP	$110,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	001	ELECTRIC HARNESS	$750.00
NONE	002	ELECTRICAL HARNESS	$750.00
NONE	6	1 PC MCKUP SHTL INFLT GT	$150.00
APOLLO	1229	SHUTTLE FLT SUIT,1 PC	$49.28
APOLLO	1057	SHUTTLE FLT SUIT,1 PC	$49.28
APOLLO	06362AAG5947	1 PC MCKUP SHTL INFLT GT	$150.00
NONE	101153840008	INFLT. CVRALL SUIT(2 SHIRTS, JACKET,TROUSERS, BAG	$473.00
APOLLO 12	06362AAG8162	MODEL, WIND TUNNEL	$100.00
NONE	NONE	MODEL, WIND TUNNEL	$100.00
NONE	23	ALIGNMENT OPTICAL TLSCPE	$128,373.00
APOLLO/HAISE	935	CNTAINR,ALIGNMT OPT TELS	$2,000.00
SKYLAB	003	SEA DYE MARKER	$10.00
NONE	140	HEAD REST PAD (S/C 117)	$75.00
NONE	TR-6	SUIT DUCT (S/C 108)	$2,500.00
NONE	NASA-1,126	SIDE WINDOW GLASS	$2,000.00
NONE	974	HATCH WNDW FRM (S/C 108)	$12,000.00
NONE	NASA-2	HOSE ASSY,UMBIL (NONFLT)	$300.00
NONE	AF59-30	IVCL (CVR GARMT)	$1,000.00
NONE	586	LIQUID SPREADING CUBE(3)	$25.00
NONE	630101,435	INDICATOR-SERVOMETRIC	$600.00
NONE	153	INDICATOR,ATTIT DIRECTOR	$15,000.00
NONE	NAS65IM6520,577	REMOTE ATTIT DIR INDICTR	$11,877.00
NONE	1463	INDICATOR,HORIZONTAL	$2,500.00
NONE	432,630106	REMOTE ATTIT DIR INDICTR	$2,000.00
NONE	801111	INDICATOR,HORIZONTAL	$2,500.00
NONE	001	INDICATOR,HORIZONTAL	$2,400.00
NONE	1003	INDICATOR,ATTIT W/AMPLIF	$5,800.00
NONE	003	INDICATOR-SERVOMETRIC	$600.00
NONE	004	INDICATOR,ATTIT W/AMPLIF	$7,687.00
NONE	023	INDICATOR,HORIZONTAL	$25,000.00
NONE	005	INDICATOR ATTIT DIR RMTE	$5,800.00
CONRAD	025	INDICATOR, ALTIT,VERTICL	$2,000.00
MCDIVITT	022	FILTER REGENERAT UNIT	$9,000.00
LOVELL	011	PAD,EMERGENCY AIR PACK	$6,000.00
THORNTON	1321	GLOVES (1 PR)	$250.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	1357	SPACE SUIT COVER LAYER	$100.00
NONE	52	SPACE SUIT COVER LAYER	$100.00
NONE	1667	SPACE SUIT COVER LAYER	$100.00
NONE	1477	SPACE SUIT COVER LAYER	$100.00
NONE	1221	SPACE SUIT COVER LAYER	$100.00
NONE	1232	SPACE SUIT COVER LAYER	$100.00
NONE	1524	CONSTANT WEAR GARMENT LL	$100.00
NONE	1666	CONSTANT WEAR GARMENT ML	$50.00
NONE	1640	CONSTANT WEAR GARMENT ML	$50.00
NONE	1626	CONSTANT WEAR GARMENT SL	$50.00
NONE	NONE	CONSTANT WEAR GARMENT LS	$50.00
NONE	NONE	CONSTANT WEAR GARMENT LL	$50.00
NONE	NONE	CONSTANT WEAR GARMENT MR	$50.00
NONE	1487	CONSTANT WEAR GARMENT MR	$50.00
NONE	1484	CONSTANT WEAR GARMENT MR	$50.00
NONE	095	CONSTANT WEAR GARMENT MS	$50.00
NONE	016,248	CONSTANT WEAR GARMENT MS	$50.00
APOLLO AUX	A-110-MT	CONSTANT WEAR GARMENT LR	$50.00
YOUNG	1049	CONSTANT WEAR GARMENT LR	$50.00
MATTINGLY	1154	CONSTANT WEAR GARMENT LR	$50.00
YOUNG	1088	CONSTANT WEAR GARMENT LR	$50.00
YOUNG	1049	CONSTANT WEAR GARMENT LR	$50.00
MATTINGLY	1154	ITMG ASSY(LIND)	$50.00
APOLLO	3	PGA (CONRAD) W/HELMET	$100.00
APOLLO	NONE	FLOTATION COLLAR	$10,000.00
NONE	4002	INFLT COVERALL TROUSER	$180.00
APOLLO	1030,1064,1073+	INFLT COVERALL TROUSER	$100.00
NONE	A4003,1074,1072	INFLT COVERALL JACKET	$100.00
NONE	02	BOOT ASSY (SZ 8)	$100.00
NONE	03	BOOT ASSY (SZ 9)	$50.00
NONE	NONE	LUNAR LANDING TRNG VEH	$50.00
NONE	NONE	LUNAR MOD SIMULATOR	$15,000.00
BOBKO STS-6	NONE	INTERFACE UNIT VIDE0	$15,000.00
MUSGRAVE STS-6	NONE	APOLLO SOYUZ CLR CMRA TV	$25,000.00
NONE	D/3	APOLLO SOYUZ CLR CMR TV	$50,000.00
			$50,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
BSP2	15469	CLR TV CMRA SEQUENCR RCA	$50,000.00
1/100 SC	NONE	CAMERA TV,RCA	$50,000.00
1/10 SC	M3/19	SLEEP KIT-EYECVRS+EARPLG	$8.00
1/20 SC	NONE	SLEEP KIT-EYECVRS+EARPLG	$8.00
4005-04-0-55158	484	PERSONAL HYGIENE KIT	$15.00
YC1213	6460003	PERSONAL HYGIENE KIT	$15.00
IP-1016	6460003	COMPATIBLE,STRTRL-PARTL	$15,000.00
NONE	NONE	ALSEP RCK W/CRDIOSCP IND	$20,000.00
1/10 SC	M7/14	SPACE SHUTTLE,STACK MDL	$675.00
1/48 SC	M86/45	MERCURY MODEL	$110.00
GEMINI	437	SPACE SHUTTLE STACK MDL	$1,500.00
NONE	NONE	EMR DISCRMNTR(7)+FR 4150	$8,000.00
1/96 SC	NONE	CONTROL INDICATOR	$1,000.00
NONE	NONE	CARDIOSCOPE	$7,000.00
NONE	280-301	LNR LNDNG TRNG VEH MODEL	$1,000.00
APOLLO	B-11	GEMINI MODEL	$125.00
APOLLO	NONE	SKYLAB MODEL	$1,000.00
APOLLO	2008	PRESSURE GRMT ASSY	$5,000.00
APOLLO	1006	VSL RLF MRNR 9 MARS GLB	$100.00
APOLLO	2021	SATURN V MODEL	$200.00
NONE	NONE	TRAINER,LUNAR MOD CR SYS	$20,000.00
APOLLO	DM40020-01	TEMPERATURE MONITOR	$50.00
1/20 SC	NONE	LUNAR SAMPLE BAG	$10.00
1/40 SC	NONE	LUNAR RAKE	$50.00
NONE	NONE	LUNAR TOOL RACK ASSEMBLY	$1,000.00
GEMINI	NONE	LUNAR HAMMER	$50.00
GEMINI	101	CORE TUBE ASSEMBLY CARR	$50.00
GEMINI	415	STORAGE COMPARTMENT BAG	$10.00
NONE	NONE	LUNAR DUST CONTAINER	$10.00
SKYLAB	NONE	LUNAR MODULE MODEL	$500.00
SKYLAB	NONE	COMMAND MODULE MODEL	$140.00
SKYLAB	1012	WALL PNLS FOR E GVNS MEM	$500.00
APOLLO/COLLINS	1092	MOCKUP CAMERA, 70MM	$2,000.00
APOLLO/MITCHELL	1180	EVA SUPPORT PKG GFAE	$3,000.00
NONE	G2G-5	SUIT ASSY,G-3C-11 W/GLVS	$2,680.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	017	COMMAND MOD SIM CRW STA	$20,000.00
NONE	526	SMEAT JACKET	$90.00
APOLLO 10	45	SMEAT JACKET	$90.00
SKYLAB	NONE	SMEAT JACKET	$50.00
SKYLAB/CARR	1061	TROUSERS,COVERALL	$100.00
1/100 SC	189	TROUSERS,COVERALL	$100.00
1/96 SC	NONE	HELMET	$200.00
1/40 SC	NONE	HELMET ASSY,MEDIUM	$200.00
1/40 SC	NONE	HELMET,FULL PRESSURE	$200.00
NONE	NONE	IMU	$500.00
NONE	NONE	FIRE EXTINGUISHER	$50.00
NONE	NONE	COVERALL GARMENT ASSY	$200.00
APOLLO	058	SPACE SHUTTLE STACK MDL	$250.00
B. FISHER	NONE	SKYLAB MODEL	$500.00
P. SCULLY-POWER	NONE	LUNAR MODULE MODEL	$25.00
NONE	1083A00037	COMMAND SRV MODULE MODEL	$40.00
NONE	1349A01014	GLOBE,LUNAR	$19.80
NONE	NONE	MICROWV BEAM SYS MOCKUP	$692.00
ONIZUKA	NONE	SHTL ORB THERML SYS TILS	$350.00
NONE	NONE	HAND CONTROLLER,LEM	$5,000.00
A7L-106043-05	032	SHUTTLE LAUNCH/ENT CVRLL	$802.31
A7L-203025-12	106	SHUTTLE LAUNCH/ENT CVRLL	$402.00
1/25 SC	NONE	SHUTTLE TIRE ASSY	$3,835.00
1/100 SC	150	SHUTTLE TIRE ASSY	$3,835.00
1/40 SC	NONE	SHUTTLE IVA SHIRT W/51-L	$12.00
NONE	NONE	SHUTTLE ICG W/51-L	$802.31
NONE	NONE	HELMET,MERCURY MOCKUP	$100.00
1/100 SC	NONE	LUNAR BOOT,LEFT(CERNAN)	$1,250.00
1/100 SC	NONE	EV GLV ASSY,RT(SPROSS)	$100.00
1/96 SC	NONE	VIKING 75 LANDER MODEL	$300.00
1/96 SC	NONE	SKYLAB MODEL	$465.00
1/96 SC	NONE	SPACE SHUTTLE STACK MDL	$250.00
1/50 SC	NONE	COMMAND SRV MODULE MODEL	$40.00
1/100 SC	NONE	GLOBE, LUNAR	$19.80
1/48 SC	NONE	CABINET,HISTOR MDL DISPY	$2,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
1/50 SC	NONE	SPC SHTL ORB W/SPCLB MDL	$347.00
1/100 SC	NONE	SPACE SHTLE STACK W/ARM	$275.00
NONE	NONE	SATURN V MODEL	$550.00
1/100 SC	NONE	SATURN 1-B MODEL	$400.00
1/48 SC	NONE	SKYLAB MODEL	$665.00
SV706200S	A5/09	ASTP MODEL	$328.00
1/100 SC	NONE	SPC SHUTTL ORB/747 MDL	$350.00
1/100 SC	NONE	SKYLAB MODEL	$2,500.00
NONE	508,1278	SPACE SHUTTLE ORBTER MDL	$900.00
YOUNG	P/N A7LB-106062	SHUTTLE STACK MDL-CHALLG	$270.00
YOUNG	036	1 PC MCKUP SHTL INFLT GT	$150.00
NONE	1173,009	SPC SHTL STK MDL-DISCOVY	$425.00
APOLLO 8/ANDERS	079	SKYLAB MODEL	$820.00
P CALLE	NONE	HELMET	$1,000.00
1/100 SC	NONE	SHUTTLE STACK MODEL	$270.00
NONE	DC/4	SHUTTLE STACK MODEL	$270.00
1/100 SC	125	HELMET,RED NECK RING	$100.00
1/100 SC	NONE	APOLLO LUNAR BOOT	$1,250.00
ATLANTIS	NONE	APOLLO LUNAR BOOT	$1,250.00
NONE	75	HELMET,RED NECK RING	$1,000.00
NONE	NONE	PRSR GARMENT ASSY	$1,000.00
1/100 SC	NONE	PNTNG"GT-4 MCDVT & WHTE"	$200.00
1/100 SC	906	SPACE SHTLE STACK W/ARM	$275.00
NONE	NONE	DISPLAY CASE	$750.00
1/100 SC	NONE	SPACE SHUTTLE STACK MDL	$250.00
NONE	NONE	SPACE SHTLE STACK W/ARM	$400.00
RODOLFO NERI	NONE	SP. SH. STACK MDL, 1/100	$270.00
RODOLFO NERI	NONE	BUST OF CHAS LINDBERGH	$1,000.00
RODOLFO NERI	NONE	2-PC LGHTD PRISM SET	$500.00
RODOLFO NERI	NONE	SHUTTLE STACK MDL-CHALL	$270.00
RODOLFO NERI	NONE	SPACE SHUTTLE STACK MDL	$500.00
1/100 SC	NONE	FRMD CLR PHOT T STAFFORD	$50.00
1/100 SC	NONE	SPC SHTL STK MDL-DISCOVY	$425.00
NONE	NONE	SHUTTLE FLT SUIT, 1 PC	$49.28
NONE	NONE	INFLIGHT TROUSERS	$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
L GITTELMAN	NONE	INFLIGHT JACKET	$600.00
L GITTELMAN	NONE	IVA SHIRT	$12.00
L GITTELMAN	NONE	LAUNCH/ENTRY CVRALLS	$800.00
L GITTELMAN	NONE	NAME TAGS	$10.00
L GITTELMAN	NONE	SPC SHTL STK MDL-COLUMBA	$425.00
L GITTELMAN	NONE	SHUTTLE STACK MDL-COLUMB	$270.00
L GITTELMAN	NONE	PLEXI SUIT CASE W/O SUIT	$1,000.00
CSU-13B/P	NONE	PRNT "OCEANUS PROCELLRM"	$200.00
GNS1030	010	PRNT "SCHROETERS VALLEY"	$200.00
KERWIN	012	PRINT "FRESH CRATER"	$200.00
NONE	5648,5659,5645+	PRINT "CRATER"	$200.00
NONE	4476	PRINT "AREA OF NASSAU"	$200.00
GIBSON	017	PRINT "UNNAMED CRATER"	$200.00
NONE	NONE	PRINT "LUNAR FEATURES"	$200.00
CRIPPEN	003	PRINT "RILLES"	$200.00
NONE	NONE	ANTI-G CUTAWAY SUIT	$100.00
NONE	NONE	RETAINER ASSY	$100.00
1/100 SC	NONE	HYPTNS PRTCT PRSR GRMT	$500.00
1/100 SC	NONE	COLLECTION ASSY MASS MU	$500.00
GEMINI	510/002	DEFECATN COLLTN DEVICE	$50.00
1/100 SC	NONE	HYPTNS PRTCT PRSR GRMT	$500.00
1/100 SCALE	NONE	ANTI-G SUIT,PROTOTYP #2	$100.00
APOLLO	NONE	EXTER CVR GARMT	$100.00
APOLLO	010-00	WET WASHES/JOHNSON, 2 bx (2 BX LOST IN SF 154 V#1186-004)	$3.18
APOLLO	TR2	BRNZE SCULPTR,APLO ASTRN	$4,000.00
NONE	NONE	SPACE SHTLE STACK W/ARM	$275.00
NONE	NONE	SPACE SHUTTLE STACK	$675.00
NONE	NONE	SUIT,G5C-10 LOVELL W/GLV	$25,000.00
NONE	NONE	SPC SHTL STK MDL-DISCVRY	$425.00
NONE	NONE	SPC SHTL STK MDL-DISCOVY	$425.00
06362	AAJ1911	HARD SUIT ASSY (RX5A)	$10,000.00
06362	AAJ1592	BAG,LUNAR SAMPLE,SMALL	$50.00
06362	AAK0292	LNR SAMP BAY DISP W/BAG	$100.00
06362	AAH8793	PNTNG COLMBA LANCH FNTSY	$4,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
06362	AAJ1693	PNTNG CNRY ISLND TRK STA	$7,500.00
06362	AAJ8110	JPNES WARR HLMT W/DPY CS	$500.00
06362	AAJ1912	X-15 MODEL	$49.75
06362	AAJ1934	SLEEP RESTRAINT	$500.00
06362	AAH8499	SLEEP RESTRAINT	$500.00
06362	AAH8794	SLEEP RESTRAINT	$500.00
06362	AAH0792	SLEEP RESTAINTS	$500.00
SPC SHTLE W/MDL	NONE	SLEEP RESTRAINT	$500.00
SPACE SHUTTLE	NONE	SLEEP RESTRAINT	$500.00
NONE	NONE	SLEEP RESTRAINT	$500.00
NONE	NONE	SLEEP RESTRAINT	$500.00
APOLLO	2192	SLEEP RESTRAINT	$500.00
APOLLO	1066	SLEEP RESTRAINTS	$500.00
BLUE	NONE	SLEEP RESTRAINT	$500.00
SHUTTLE	NONE	SLEEP RESTRAINT	$500.00
SHUTTLE	NONE	AMER. SPACE SHUTTLE EXB.	$7,174.00
SHUTTLE	NONE	AMER. SPACE SHUT. EXB.	$7,174.00
SHUTTLE	NONE	AMER. SPACE SHUTTLE EXB.	$7,174.00
38245	NONE	1/50 SCALE SHUTTLE	$2,350.00
10101-20001-04	NONE	WATER DISPENSER	$1,600.00
10101-20002-04	NONE	HELMET,RED NECK RING(ref. HEI#1221)	$1,000.00
10101-20002-04	NONE	ASTRONAUT COVERALL	$800.00
10101-20002-01	NONE	MODEL, 1/100TH SCALE	$600.00
10101-20002-04	NONE	MODEL, 1/100TH SCALE	$600.00
10101-20002-04	NONE	MODEL, 1/100TH SCALE	$600.00
10101-20002-04	NONE	MODEL, 1/100TH SCALE	$600.00
10101-20002-04	NONE	GLOBE,12" MOON/CELESTIAL	$19.80
10101-20002-04	NONE	FLIGHT JACKET	$151.67
SEB33100056-203	012	TROUSERS	$47.88
F2.0 160 DEGREE	114	SHUTTLE IVA TROUSERS	$47.88
F2.8	3	TROUSERS	$47.88
F2.8	NONE	TROUSERS	$47.88
F4.0	8853666	TROUSERS	$47.88
F4.0	8853688	TROUSERS	$47.88
6760	9010391	TROUSERS	$47.88

Part/Model #	Serial # (if applicable)	Description	Cost
F4.5	1004	TROUSERS	$47.88
F4.5	1011	LENS, CAMERA 5MM	$3,000.00
F4.5	1015	LENS, CAMERA 5MM	$3,000.00
F4.5	1032	LENS, CAMERA 100MM	$250.00
308-4C	1052	LENS, CAMERA 100MM	$250.00
308-4C	1053	LENS, CAMERA 150 MM	$100.00
308MB	1582	LENS, CAMERA 150 MM	$100.00
308MA	1262	LENS, CAMERA 150 MM	$250.00
16MM	1039	LENS, CAMERA 180 MM	$500.00
16MM, 48FPS	1003	LENS, CAMERA 180 MM	$500.00
16MM, 48FPS	1004	LENS, CAMERA 180 MM	$500.00
75MM F2.5	1037	FILM CANISTER, 16 MM	$500.00
200MM, F5.5	8912027	FILM CANISTER	$1,000.00
200MM, F4.0	1006	FILM MAGAZINE, 16MM	$1,000.00
16MM	0008	FILM MAGAZINE, 16MM	$1,000.00
16MM	0004	CAMERA REMOTE CONTROL	$1,000.00
9.5-57GG F1.6	1008	STILL PICTURE CAMERA	$20,000.00
9.5-57MM F1.6	1009	STILL PICTURE CAMERA	$20,000.00
10MM	1040	CAMERA LENS	$400.00
10MM, F1.6	1046	CAMERA LENS	$250.00
18MM, F0.9	1032	STILL PICTURE CAMERA	$250.00
18MM, F0.9	1033	STILL PICTURE CAMERA	$650.00
18MM, F0.9	1053	CAMERA LENS W/VF	$650.00
18MM, F1.8	1008	CAMERA LENS W/VF	$2,400.00
18MM, F1.8	1011	CAMERA LENS, 10MM	$2,400.00
25MM, F1.4	6	CAMERA LENS	$250.00
25MM, F1.4	9	CAMERA LENS	$250.00
25MM, F0.95	1026	CAMERA LENS	$500.00
25MM, F0.95	1027	CAMERA LENS	$500.00
75MM, F2.2	1027	CAMERA LENS	$500.00
75MM, F2.2	1023	CAMERA LENS	$500.00
100MM F2.8	2	CAMERA LENS	$500.00
18MM, F1.8	1007	CAMERA LENS	$500.00
75MM, F2.5	1074243	CAMERA LENS	$100.00
200MM, F5.5	1001	CAMERA LENS	$100.00

Part/Model #	Serial # (if applicable)	Description	Cost
530	1002	CAMERA LENS	$350.00
9.5-57MM, F1.6	1006	CAMERA LENS	$350.00
9.5-57MM F1.6	1001	CAMERA LENS	$400.00
308MB	1627	CAMERA LENS	$400.00
16MM	1029	CAMERA LENS	$250.00
16MM	1035	CAMERA LENS	$500.00
16MM	1030	CAMERA LENS	$400.00
16MM, 48FPS	1009	CAMERA HANDLE	$250.00
16MM, 48FPS	1008	CAMERA LENS W/VF	$1,000.00
308A	1070	CAMERA LENS	$2,400.00
F2.0 160 DEGREE	1057	FILM MAGAIZINE, 16MM	$2,425.00
10101-20002-04	NONE	CAMERA DRIVE ASSEMBLY	$1,000.00
10101-80009-04	NONE	CAMERA DRIVE ASSEMBLY	$4,000.00
10101-80009-04	NONE	CAMERA DRIVE ASSEMBLY	$4,000.00
10101-80009-04	NONE	STILL PICTURE CAMERA	$4,000.00
10101-80009-04	NONE	STILL PICTURE CAMERA	$20,000.00
10101-80009-04	NONE	STILL PICTURE CAMERA	$20,000.00
10101-80009-04	NONE	LENS, CAMERA 5MM	$20,000.00
10101-80009-04	NONE	TROUSERS	$3,000.00
10101-80009-04	NONE	SLEEP SHORTS	$47.88
10101-80009-04	NONE	SLEEP SHORTS	$40.30
9.PANELS	NONE	SLEEP SHORTS	$40.30
6 PANELS	NONE	SLEEP SHORTS	$40.30
10101-20001-04	NONE	SLEEP SHORTS	$40.30
10101-20001-04	NONE	SLEEP SHORTS	$40.30
10101-20001-04	NONE	SLEEP SHORTS	$40.30
10101-20002-04	NONE	SLEEP SHORTS	$40.30
10101-20002-04	NONE	SLEEP SHORTS	$40.30
10101-20002-04	NONE	SLEEP SHORTS	$40.30
1/40TH SCALE	NONE	A NEW AGE OF EXPLORATION	$40.30
10101-20001-04	NONE	PRESERVING OUR PLANET	$12,688.50
10101-20001-04	NONE	IVA JACKET	$9,688.50
10101-20001-04	NONE	IVA JACKET	$600.00
10101-20001-04	NONE	IVA JACKET	$600.00
			$600.00

Part/Model #	Serial # (if applicable)	Description	Cost
10101-20001-04	NONE	IVA TROUSERS	$500.00
10101-20001-04	NONE	IVA TROUSERS	$500.00
10101-20001-04	NONE	IVA TROUSERS	$500.00
10101-20001-04	NONE	MODEL, X-29A	$44.75
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20001-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHTLE INFLT JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA JACKET	$600.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$600.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
NONE	NONE	SHUTTLE IVA TROUSERS	$500.00
			$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
NONE	89059	SHUTTLE IVA TROUSERS	$500.00
65MM, F3.5	6107607	SHUTTLE IVA TROUSER	$500.00
LEM	062	SHUTTLE IVA TROUSER	$500.00
LEM	064	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
NONE	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	STILL PICTURE CAMERA	$500.00
10101-200002-04	NONE	CAMERA LENS	$71.00
10101-20002-04	NONE	LM TRANSLATION CONTROLR	$112.00
10101-20002-04	NONE	LM TRANSLATION CONTROLLR	$25,000.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$25,000.00
10101-20002-04	NONE	SHUTTLE TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	TROUSERS, SHUTTLE IVA	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20001-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
10101-20002-04	NONE	SHUTTLE IVA TROUSERS	$500.00
NONE	NONE	SHUTTLE IVA TROUSERS	$500.00
PAINTING	NONE	SHUTTLE IVA TROUSERS	$500.00
NONE	NONE	SHUTTLE IVA TROUSERS	$500.00
10102-10002-03	1014	SHUTTLE IVA TROUSERS	$500.00
27235-00	16,03-10,12	SHUTTLE IVA TROUSERS	$500.00
NONE	NONE	SHUTTLE IVA TROUSERS	$500.00
A7LB-103010-03	321	SHUTTLE IVA TROUSERS	$500.00
A7LB1C302903	688	SHUTTLE IVA TROUSERS	$500.00
A7L10300018/19	134	DSPLY HIGHSPEED TRN MDL(W/#3109)	$500.00
SEB13100084201	1105	30yrs OF MANNED SPCEFLT	$500.00
SEB13100084201	1115	SS FREEDOM PAINTING	$8,500.00
SEB13100084201	1116	0RBITER SURVIVAL KIT	$2,000.00
16536G04	257	BREATHING SYSTEM, FIRE	$15,000.00
16536G04	147	SLIPPER SOCKS	$1,500.00
1001A	519	APOLLO IV GLOVES (2)	$12.50
16536G-02	130	GLOVE BLADDER (YOUNG)	$50.00
16536G-02	NONE	APOLLO IV GLOVE (2-HALSE)	$2.00
16535G-02	NONE	BIOBELT ASSEMBLY	$50.00
16535G-02	NONE	BIOBELT ASSSEMBLY	$1.00
NONE	NONE	BIOBELT ASSEMBLY	$1.00
NONE	NONE	APOLLO COMM CARRIER	$1.00
NONE	NONE	APOLLO COMM CARRIER	$10.00
NONE	NONE	APOLLO EV GLOVE, IRWIN	$100.00
NONE	NONE	APOLLO COMM CARRIER	$40.00
NONE	NONE	APOLLO COMM CARRIER	$10.00
A7LB105024-03	393	APOLLO COMM CARRIER	$10.00
A7LB10415204	306	APOLLO COMM CARRIER	$10.00
A7LB10415203	311	HOSE, WHITE 1 1/4 ID	$10.00
A7LB105024-03	396	HOSE, WHITE 1 1/4 ID	$1.00
A7LB1630290304	498	HOSE, WHITE 1 1/4 ID	$1.00
SEB13100084202	1139	HOSE, WHITE, 1 1/4 ID	$1.00
SEB13100084202	1270	HOSE, WHITE 1 1/4 ID	$1.00
			$1.00

Part/Model #	Serial # (if applicable)	Description	Cost
SEB13100084202	1223	HOSE, WHITE 1 1/4 ID	$1.00
A7LB2011501	625	THIGH CONVOLUTE ASSY	$3.00
SEB13100084203	1551	SHOULDER CONVOLUTE ASSY	$2.00
A7LB20115501	408	SHOULDER CONVOLUTE ASSY	$2.00
CDR	NONE	THIGH CONVOLUTE ASSY	$3.00
SEB13100143303	1102	GLOVE BLADDER	$2.00
SEB13100143304	1055	BIOBELT ASSEMBLY	$1.00
SEB13100084204	1521	BIOBELT ASSEMBLY	$1.00
A7L2030010405	047	BIOBELT ASSEMBLY	$1.00
A7L-203000-22	069	POCKET, STRAP/SCISSOR PK	$2.00
A7LB10606105	592	BIOBELT ASSEMBLY	$1.00
A7LB10606106	594	POCKET, STRAP/SCISSOR PK	$2.00
A7L201047-01	NONE	CREW ID BAND	$1.00
A7L-201128-02	066	BOOT ASSEMBLY, SLIPPERS	$10.00
A7LB20605105	318	BOOT ASSEMBLY, SLIPPERS	$10.00
A7LB20605106	327	BIOBELT ASSEMBLY	$1.00
A7LB20605105	330	SHELL ASSEMBLY GLOVE	$4.00
A7LB20605106	323	EV GLOVE (COVER GLOVE)	$5.00
A7L20600007	055	RESTRAINT, HEEL/SOLE ASY	$5.00
A7L-201128-01	379	RESTRAINT, HEEL/SOLE ASY	$5.00
A7LB20605105	331	POCKET, STRAP/SCISSOR PK	$2.00
A7LB12611708	575	ITMG SPAT ASSEMBLY	$5.00
A7LB12611708	587	ITMG BOOT ASSEMBLY	$10.00
A7L1060110104	NONE	ITMG BOOT ASSEMBLY	$10.00
A7L1060110104	NONE	ITMG BOOT ASSEMBLY	$10.00
A7L20118101	NONE	ITMG BOOT ASSEMBLY	$10.00
2CDR	NONE	BOOT ASSEMBLY	$10.00
A7LB-106078-07	645	ITMG SPAT ASSEMBLY	$5.00
A7LB10415702	248	ITMG BOOT ASSEMBLY	$10.00
A7LB10415702	247	BOOT BLADDER	$10.00
A7LB10503301	788	BOOT BLADDER	$10.00
A7LB10503301	789	SOLE ASSY, BOOT, SIZE B	$5.00
A6L50500003	188	SOLE ASSEMBLY, BOOT, SZA	$5.00
A6L50500003	150	CREW ID BAND	$1.00
A14263	195	CREW ID BAND	$1.00

Part/Model #	Serial # (if applicable)	Description	Cost
A14263	138	BOOT ASSEMBLY	$10.00
A14247R	308	ELBOW CONVOLUTE ASSY	$1.00
A14247R	539	ELBOW CONVOLUTE ASSY	$1.00
SV7109212	123	KNEE CONVOLUTE ASSY	$1.00
SV7109212	186	KNEE CONVOLUTE ASSY	$1.00
AL427402	110	PURGE VALVE	$1.00
SV713842	252	PURGE VALVE	$10.00
SEC38101371301	1001	NOZZLE, GOLD	$10.00
EC4-M-404-10	NONE	NOZZLE, GOLD	$4.00
AL9125	943	NOZZLE, RED	$4.00
AL9125	941	NOZZLE, RED	$4.00
AGL50500087	198	MNTNG PLATE LOG CONNECT	$4.00
SV7109085	198	MNTNG PLATE LOG CONNECT	$5.00
SV7109085	199	NOZZLE, RED	$5.00
A6L50300010	505	NOZZLE, BLUE	$5.00
A7L10500304	257	NOZZLE, REDW/PIZOMTR TAP	$4.00
A7L10500304	333	NOZZLE,BLUEW/PIZOMTR TAP	$2.00
A7L10500304	290	COMM CONNECTOR SHELL	$2.00
A7L10500304	285	COMM CONNECTOR SHELL	$2.00
A7L10500304	252	PURGE VALVE	$2.00
A7L10500304	253	CONNECTOR, VEHICLE WASTE	$10.00
A6L50300-12	054	CONNECTOR, VEHICLE WASTE	$3.00
NONE	NONE	EMU MAINTENANCE KIT	$3.00
NONE	P/N: V28-575202	CONNECTOR, URINE	$1.00
CLASS 3	NONE	CONNECTOR, URINE	$3.00
SVSK1002	1001	CONNECTOR, URINE	$3.00
NONE	NONE	CONNECTOR, URINE	$3.00
FULL SCALE	NONE	CONNECTOR, URINE	$3.00
1/10 SCALE	NONE	CONNECTOR, URINE	$3.00
1/20 SCALE	NONE	CONNECTOR, URINE	$3.00
NONE	NONE	EMU MAINTENANCE KIT	$3.00
06362-AAK0971	P/N: V716-00000	SKYLAB FRAGMENT	$1.00
NONE	NONE	DOCKING PROBE ASSEMBLY	$100.00
NONE	NONE	DROGUE ASSEMBLY	$625,000.00
NONE	NONE	EMU MOCKUP	$65,000.00
		MOCKUP HIKFIPLSS	$94,100.00
			$4,500.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	GODDARD ROCKET MODEL	$2,100.00
1/25TH SCALE	NONE	EXPLORER 1 SATELLITE MDL	$5,500.00
NONE	NONE	SATURN V MODEL	$80,000.00
NONE	NONE	SKYLAB MODEL	$8,500.00
NONE	NONE	SKYLAB MULT DOCK ADPT MOD	$200.00
NONE	NONE	EARTH HORIZON PORT. POPUP	$8,356.00
NONE	NONE	SPACE TECHNOLOGY DISPLAY	$9,361.00
1/15TH SCALE	NONE	DISCOVER. SPACE FOR A.E.G	$9,361.00
SED33103381-304	1007	ASTP FLAG LOGO (30"DIA)	$50.00
P/N 47E253000	NONE	SPACE SHUTTLE STACK MODEL	$9,820.00
SED33101307-303	1002 (FLY SWAT	SPACE STATION PANEL DISP.	$3,000.00
NONE	P/N: SED3811170	SPACE STATION PANEL DISP.	$3,000.00
STS-49 TRAINING	SED39122538-301	SPACE STATION PANEL DISP.	$3,000.00
NONE	NONE	SP. STATION PANEL DSPLY.	$3,000.00
35MM	10 (P/N SEB3310	SPACE STATION PANEL DISP.	$3,000.00
(FOR 35mm)	1031	MODEL, SPACE SHUTTLE STACK	$25,000.00
35 mm	1010 (LENS S/N	DIGITAL COMPUTER ASSEMBLY	$15,000.00
55 mm	10	GALLEY PROTOTYPE W/CONT.	$5,050.00
NONE	CONT.#1048/CAN.	AUXILIARY REACH MECHANISM	$5,200.00
NONE	1002	CAPTURE BAR MAIN BEAM	$140,000.00
FOR NIKON	1032	CAPTURE BAR LIFT. SLING	$2,000.00
FOR NIKON	1031	CREW PROPULSION DEVICE	$1,000.00
NONE	1031	TREADMILL, SECOND-GENERA.	$65,000.00
NONE	1001	CAMERA, 35MM ELEC W/LENS	$1,500.00
STILL PICTURE	1007	VARIABLE EXPOSURE TIMER	$100.00
STILL PICTURE	0002	CAMERA, MANUAL W/LENS	$1,100.00
35MM	1002	LENS, ULTRAVIOLET	$400.00
35MM	1015	FILM CANNISTER & CONT.	$10.00
NONE	10	UV FILTER CASSETTE	$50.00
WITH MAGAZINE	1025	UV CAMERA FILTER CASSETTE	$50.00
WITH MAGAZINE	1045	UV FILTER HOLDER	$20.00
F1.2	1002	MINI-THERMAL REGRIGERATOR	$100.00
16MM	1044	CAMERA,RECON/OPTICAL 16MM	$20,000.00
540	1023	CAMERA,RECON/OPTICAL 16MM	$650.00
F1.6	1013	CAMERA, AEC DATA 35MM	$2,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	X10/1074083	CAMERA, AEC DATA 35MM	$1,000.00
F1.4	1009	CAMERA, W/MAGAZINE	$2,100.00
NONE	1008	CAMERA, HASSELBLAD DATA	$4,000.00
NONE	1005	CAMERA, HASSELBLAD ELEC.	$326.00
SHUTTLE	NONE	LENS, CAMERA 55MM	$150.00
NONE	2	MAGAZINE, FILM TECON/OPT.	$1,000.00
1/50TH HS376	NONE	CAMERA HANDLE RECON/OPT.	$1,000.00
NONE	NONE	LENS, CAMERA 10MM	$250.00
1/96TH SCALE	NONE	LENS CAMERA ANGENIEUX/ETS	$400.00
1/48TH SCALE	NONE	LENS, CAMERA 35MM	$381.00
208	NA	LENS, CAMERA 60MM	$200.00
305	NONE	LENS, CAMERA 80MM	$216.00
NONE	NONE	STS CREW ESC. POLE MOCKUP	$250.00
1/100TH SCALE	NONE	SPACELAB MODEL 1/20TH	$2,368.00
1/100TH SCALE	W/TDRS (CHALLEN	MODEL, COMM. SATELLITE	$500.00
SK852RLT	0000001	MODEL, SKYLAB 1/96 SCALE	$400.00
70 MM WIDE ANG	395	SKYLAB MODEL (CSM & PAR.)	$500.00
500 ELX	DM-100/200(DE-3	MODEL, APOLLO-SOYUZ	$400.00
70 MM	825	MODEL, SATURN V 1/96TH	$400.00
P/N: 16536G-04	304 (SNOOPY CAP	MODEL, SATURN V 1/96TH	$400.00
16MM	2	MODEL, SATURN V, 1/96th Scale	$400.00
16MM	1271	SPACE SHUTTLE STACK MODEL	$300.00
10MM	1061	SPACE SHUTTLE STACK MODEL	$400.00
540	1028	RET. TETHER MOCKUP HI-FI	$36,000.00
NONE	NONE	CAMERA, LUNAR SURFACE	$1,000.00
SIZE MEDIUM	NONE	CAMERA, WITH DATA RECORD.	$1,000.00
NONE	NONE	FILM MAGAZINE	$200.00
NONE	NONE	COMM. CARRIER ASSEMBLY	$100.00
NONE	NONE	CAMERA, DATA 16MM	$1,000.00
NONE	NONE	CAMERA FILM MAGAZINE	$1,000.00
NONE	NONE	CAMERA LENS	$250.00
NONE	NONE	CAMERA HANDLE, 16MM	$1,000.00
NONE	NONE	MIRAGE CUSTOM PORT. DISP.	$2,500.00
SEB39100317-304	2010	FLIGHT SUIT MOCKUP	$30.63
NONE	NONE	AMERICA FROM SPACE	$2,380.26

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	THE WORLD FROM SPACE	$2,711.62
NONE	NONE	SPEC. EFFECTS FROM SPACE	$2,587.36
SDB39100360-002	2008	SPACE SHUTTLE REUSE. SYS.	$2,421.68
SDB39100360-002	2003	MODEL, 6 DEGREES OF FREED	$100.00
SDB39100360-002	2006	MINISCOPE, MEDICAL	$150.00
SEB39100311-201	2002	APOLLO 13 LITH HYD CANNIS	$100.00
SEB39100502-201	1006	GNOMON ASSY, CLASS A	$200.00
SKO7368-08-002	2002	CLOCK, FROM RUSSIAN DELEG	$200.00
SEB39100310-101	103	ALUMINUM FLOWER ON PEDEST	$100.00
NONE	NONE	APOLLO TRAINING AID SPARK	$300.00
SEB39103122-301	2008	LUNAR TOOL HANDLE EXTENS	$150.00
SEB39101476-000	2001	EXT HANDLE FOR LUNAR TOOL	$150.00
SEB39100310-101	105T	EXT HANDLE FOR LUNAR TOOL	$150.00
SJC12100251-301	1005	LUNAR HAND SCOOP, MOCKUP	$150.00
PROJECT MERCURY	NONE	LUNAR SURFACE DRILL BIT	$150.00
GYROSCOPE	NONE	LUNAR CORE SAMPLE TUBE	$150.00
NONE	NONE	LUNAR HAND SCOOP, MOCKUP	$150.00
NONE	NONE	LUNAR SHOVEL W/ EXT HANDL	$200.00
NONE	NONE	LUNAR SCOOP, MOCKUP	$150.00
NONE	NONE	LUNAR TONGS, MOCKUP	$150.00
NONE	NONE	LUNAR HAND SCOOP, MOCKUP	$150.00
NONE	NONE	INFLIGHT DART BOARD W KIT	$100.00
NONE	NONE	AMER. VETS SILVER AWARD	$400.00
P/N: SEB	C002	MOON & ATTIT. TRAIN. DEV.	$200.00
NONE	NONE	PLAQUE, DED. ASTRON. WAY	$200.00
NONE	NONE	RESOLU./CHICAGO JUNE 1969	$200.00
NONE	NONE	BRONZE BUST, OMAR BRADLEY	$300.00
24"x13"	NONE	PROC./NAT'L MOON WALK DAY	$100.00
ATLAS 109-D	NONE	PLAQUE, PROG. OPPORTUNITY	$100.00
ATLAS 109-D	NONE	FRAMED U.S. FLAG	$100.00
ATLAS 109-D	NONE	APOLLO 10 SURVIVAL GEAR	$800.00
35MM	1006; 1001	INFLIGHT HAND EXERCISER	$100.00
35MM	1003	FRAMED TAPESTRY - GEMINI	$200.00
NONE	1002	SKYLAB FOOD TRAY MOCKUP	$100.00
NONE	1001	SKYLAB FOOD TRAY MOCKUP	$100.00

Part/Model #	Serial # (if applicable)	Description	Cost
26X38	NONE	WOODEN PLAQUE	$200.00
NONE	124	UMBILICAL DISCONNECT	$500.00
16 X 9-1/2"	NONE	UMBILICAL DISCONNECT	$500.00
NONE	NONE	UMBILICAL DISCONNECT	$550.00
NONE	NONE	FLASH ASSEMBLY W/BAT.COMP	$100.00
36 X 30-1/2"	NONE	CAMERA TIMER	$200.00
31-1/2 X 43-1/2	NONE	SPACE METER (SPOTMETER)	$100.00
NONE	NONE	SHUTTLE TREADMILL	$1,000.00
AL CHINCHAR	NONE	SHUTTLE ARTWORK	$150.00
EAGLE & FLAG	RECOVERY	PGA HELMET W/EARPHONES	$2,000.00
36 X 36	NONE	SHUTTLE INSULA. BLANKET	$200.00
33-1/2 X 33"	NONE	HEAT SHIELD APOLLO 12	$300.00
44" X 31"	I REMEMBER	HEAT SHIELD APOLLO 12	$275.00
46 X 57-1/2"	NONE	SHADOW-BOX SHUTTLE PHOTO	$200.00
10' X 12-1/2'	NONE	ARTIST RENDITION(SHUTTLE)	$400.00
1/25TH SCALE	NONE	ARTIST RENDITION(SHUTTLE)	$500.00
190CS	NONE	ARTWORK (MAN'S FACE)	$200.00
33101028	1002	FRAMED SERIGRAPH PRINT	$200.00
36-1/2 X 48"	NONE	ARTWORK "WINDOWS"	$200.00
NONE	NONE	ARTWORK "MARE COGNITUM"	$200.00
NONE	NONE	FRAMED OIL PRINT	$200.00
M1	1253299	CHALLENGER MEM. PAINTING	$200.00
33100054-202	1023	CHALLENGER MEM. PAINTING	$1,000.00
33101139	1001	MODEL, HUBBLE SPACE TELE.	$1,250.00
33101140-301	1002	SKYLAB CABLE CUTTERS	$100.00
33101141-301	1001	LIGHT, AUX. PHOTOGRAPHIC	$3,000.00
33101140-301	1001	PAINTING (NIGHT REFELCT.)	$4,000.00
STS-28	T9595R	SKYLINE DISPLAY (MIRAGE)	$3,576.26
18355G04EHBEO	009	SKYLINE DISPLAY (MIRAGE)	$3,576.26
18355G04EHBEO	030	LENS, CAMERA 25MM	$250.00
18355G04EHAKO	018	LENS, CAMERA 25MM	$350.00
18355G04EHAKO	035	CAMERA,STILL PICTURE 16MM	$25,000.00
18355G04EHAKO	043	FILM MAGAZINE, 16MM	$1,200.00
8475011769158	NONE	CAMERA,STILL PICTURE 16MM	$25,000.00
8475011769162	360	FILM MAGAZINE, 16MM	$1,200.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	LUNAR VEHICLE	$500,000.00
8475011769163	NONE	ARTWORK, SSF REDESIGN	$5,000.00
8475011769164	NONE	PRESSURE ASSY ANTI-G SUIT	$5,000.00
8475011769164	7159	PRESSURE ASSY ANTI-G SUIT	$5,000.00
8475011799992	NONE	PRESSURE ASSY ANTI-G SUIT	$5,000.00
MIL-S-5085	NONE	PRESSURE ASSY ANTI-G SUIT	$5,000.00
101081005501	NONE	PRESSURE ASSY ANTI-G SUIT	$5,000.00
101012001802	NONE	FLYERS ANTI-EXP COVERALLS	$200.00
101221002205	1039 (ON MANNEQ	FLYERS ANTI-EXP COVERALLS	$200.00
101222000201	NONE	FLYERS ANTI-EXP COVERALLS	$200.00
G020100302	062 (ON MANNEQU	FLYERS ANTI-EXP COVERALLS	$200.00
SK83035101	6001	FLYERS ANTI-EXP COVERALLS	$200.00
SK83035101	6002	FLYERS ANTI-EXP COVERALLS	$200.00
SK83035201	7001	ANTI-BLACKOUT TYPE22 SUIT	$200.00
SK83035201	7002	COVERALLS(ON A MANNEQUIN)	$350.00
SK83038301	5001	IVA BOOTS (ON MANNEQUIN)	$100.00
SK83038301	5002	LIFE VEST HARNESS ASSY	$750.00
010382351XX	066	LUMBAR PAD (ON MANNEQUIN)	$100.00
104801300101	SP-5	LAUNCH ENTRY HELMET	$750.00
0104801300101	SP-5	THIGH SIZING STRIP-ZIPPER	$100.00
01048013002	SP-5	THIGH SIZING STRIP-ZIPPER	$100.00
01048013002	SP-5	LEG SIZING STRIPS-ZIPPER	$100.00
0104801300103	SP-5	LEG SIZING STRIPS-ZIPPER	$100.00
0104801300103	SP-5	ARM SIZING STRIPS-ZIPPER	$100.00
0103800690102	SP-5	ARM SIZING STRIPS-ZIPPER	$100.00
0103800690102	SP-5	LOWER ARM BLADDER	$2,000.00
0103800690103	SP-5	LEG SIZING STRIPS-KEVLAR0	$100.00
0103800690103	SP-5	LEG SIZING STRIPS-KEVLAR	$100.00
0103800690104	SP-5	LEG SIZING STRIPS-KEVLAR	$100.00
0103800690104	S[-5	LEG SIZING STRIPS-KEVLAR	$100.00
A6L400000	084 - SCHMITT	LEG SIZING STRIPS-KEVLAR	$100.00
A6L400000	090 - IRWIN	LEG SIZING STRIPS-KEVLAR	$100.00
A6L400000	101 - SHEPARD	ARM SIZING STRIPS-KEVLAR	$100.00
A6L400000	114 - SCOTT	ARM SIZING STRIPS-KEVLAR	$100.00
A6L400000	129 - HAISE	ARM SIZING STRIPS-KEVLAR	$100.00

Part/Model #	Serial # (if applicable)	Description	Cost
A6L400000	134 - DUKE	ARM SIZING STRIPS-KEVLAR	$100.00
A6L400000	149 - LENOIR	ARM SIZING STRIPS-KEVLAR	$100.00
A6L400000	162 - MUSGRAVE	ARM SIZING STRIPS-KEVLAR	$100.00
A6L400000	171 - BRAND	LIQUID COOLING GARMENTS	$16,000.00
A6L400000	181 - POGUE	LIQUID COOLING GARMENTS	$16,000.00
A6L400000	184 - GIBSON	LIQUID COOLING GARMENTS	$16,000.00
A6L400000	190 - GARRIOTT	LIQUID COOLING GARMENTS	$16,000.00
A6L400000	194-BEAN	LIQUID COOLING GARMENTS	$16,000.00
01071100001	SP5 - BEAN	LIQUID COOLING GARMENTS	$16,000.00
01071100001	100 - STAFFORD	LIQUID COOLING GARMENTS	$16,000.00
01071100001	1002 - MITCHELL	LIQUID COOLING GARMENTS	$16,000.00
01071100001	1003 - CERNAN	LIQUID COOLING GARMENTS	$16,000.00
01071100001	1004 - BRAND	LIQUID COOLING GARMENTS	$16,000.00
01071100003	1010 - LOUSMA	LIQUID COOLING GARMENTS	$16,000.00
NONE	070, 114, &393	LIQUID COOLING GARMENTS	$16,000.00
NONE	054, 154, &449	LIQUID COOLING GARMENT	$16,000.00
NONE	054, & 551	LIQUID COOLING GARMENTS	$16,000.00
NONE	030, 132, & 419	LIQUID COOLING GARMENTS	$16,000.00
NONE	1024, 030, & 05	LIQUID COOLING GARMENTS	$16,000.00
NONE	1029, 053, & 05	LIQUID COOLING GARMENTS	$16,000.00
NONE	083, 127, & 459	LIQUID COOLING GARMENTS	$16,000.00
NONE	1038, 049, 112,	LIQUID COOLING GARMENTS	$16,000.00
NONE	1039, 041, & 13	GLOVE ASSY WITH RESTRAINT	$9,000.00
NONE	1039, 041, & 13	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	1040, 047, 085,	GLOVE ASSY. W/ RESTRAINT	$9,000.00
NONE	1043, 056, & 52	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	1043, 056, & 14	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	1061, 065, 089,	GLOVE ASSY. W/ RESTRAINT	$9,000.00
NONE	1061, 065, 089,	GLOVE ASSY. W/ RESTRAINT	$9,000.00
NONE	1073, 089, & 14	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	1074, PVU, 157,	GLOVE ASSY. W/ RESTRAINT	$9,000.00
NONE	1078, 103, 185,	GLOVE ASSY. W/ RESTRAINT	$9,000.00
NONE	1079, 104, & 18	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	1079, 104, & 18	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	NONE	GLOVE ASSY. W/ RESTRAINT	$9,000.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	NONE	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	NONE	GLOVE ASSY. W/ RESTRAINT	$9,000.00
SJC42100212-301	1002	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	1455, & 1150	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	NONE	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	14310	GLOVE ASSY. W/ RESTRAINT	$8,975.00
NONE	14321	APOLLO FLAG LOGO(EMBLEM)	$50.00
NONE	SEB NC-M011	APOLLO FLAG & PATCH (FLOWN)	$200.00
M10543RM00104	1036	GEMINI PORTABLE HANDHOLD	$25.00
A7LB103011-06	350	LUNAR TOOL RACK W/ MOCKUP	$100.00
NONE	NONE	SKYLAB DENTAL KIT	$200.00
A7L-203025-11	107	APOLLO MEDICAL ACCES. KI	$100.00
A6L-503058-03	029	ASTP BROWN WOODEN PLAQUE	$50.00
A6L-503058-04	NONE	APOLLO 14 LUNAR ROCK	$100.00
A6L-503058-02	019	APOLLO 14 LUNAR ROCK	$100.00
NONE	NONE	LUNAR ROVER FENDER(3 PCS)	$100.00
NONE	NONE	BAG, COLLECTION CTNGCY.	$10.00
NONE	NONE	APOLLO GLOVE	$50.00
NONE	NONE	SCRAPBOOK"TRIBUTE APO.11"	$50.00
E15729-01	43-01	APOLLO LUNAR GLOVE(LEFT)	$50.00
14-0104-02	2210	EMU MAINTENANCE KIT	$20.00
SEB40100060-201	4200	EMU MAINTENANCE KIT	$20.00
NONE	NONE	EMU MAINTENANCE KIT	$20.00
14-0111-01	2383	CHECKLIST-OBTL VHCLE 099	$10.00
NONE	NONE	CHECKLIST STS-7 OBTL PCKT	$10.00
V36-601135-601	06362AA-18071	CHECKLIST, STS-13	$10.00
V36-601416	NONE	SCISSORS, S.S. GEMINI/APO	$5.00
V36-601135-701	06362AAK1368	RETROROCKET MOTOR	$50.00
V36-601135-601	06362AAK1367	DISPENSER, WATER (APOLLO)	$50.00
(2 PIECES)	NONE	LIFE RAFT (3 MAN)APOLLO	$100.00
NONE	NONE	LEXAN HELMET/REDNECK RING	$100.00
NONE	NONE	INFLT DEFECATION COLL.DEV	$5.00
NONE	NONE	GEMINI TRACKING CHART DEV	$100.00
NONE	NONE	TOOL KIT, APOLLO FLOWN	$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	TOOL KIT, APOLLO FLOWN	$500.00
NONE	NONE	TOOL KIT, APOLLO FLOWN	$500.00
0107-85807-0708	NONE	TOOL KIT, APOLLO FLOWN	$500.00
0107-85807-0708	NONE	EXPL THE UNIV.DSP PANEL	$4,873.00
NONE	NONE	1/50 SHUTTLE ORBITER MOD.	$10,000.00
PRES. REAGAN	NONE	HUBBLE SPCE TELESCOPE MOD	$2,000.00
GOV.TX-SMITH	NONE	TDRS W/ IUS BOOSTER	$2,000.00
COLLIER TROPH	NONE	GALILEO SPACECRAFT MODEL	$1,500.00
(TO NASA-MERC.)	NONE	MAGELLAN SPACECRAFT MODEL	$1,500.00
APOLLO 11	NONE	HUGHES COMM. SATELLITE(S)	$1,500.00
NONE	45672	LUNAR EARTH MODULE(LEM) MODEL	$484,870.50
APOLLO 11	NONE	LOW PROFILE VENT DUCTS	$400.00
FALCON	NONE	LOW PROFILE VENT DUCTS	$400.00
FALCON	NONE	U.S. FLAG (FRAMED,SKYLAB)	$100.00
NONE	NONE	PROCLAMATION-CHALLENGER	$25.00
AQUARIUS	NONE	PROCLAMATION-MSC	$20.00
ANTARES	NONE	PLAQUE-SKYLAB	$30.00
ORION	NONE	PLAQUE(SPIRIT OF FLIGHT)	$40.00
NONE	NONE	REP. PLAQUE LEFT ON MOON	$30.00
NONE	NONE	REP. PLAQUE LEFT ON MOON	$30.00
NONE	NONE	REP. PLAQUE(APOLLO 15)	$40.00
NASA MEATBALL	NONE	REP. PLAQUE (APOLLO 15)	$30.00
NONE	NONE	REP. PLAQUE (APOLLO 12)	$30.00
NONE	NONE	REP. PLAQUE (APOLLO 13)	$30.00
STS-26T	NONE	REP. PLAQUE (APOLLO 14)	$30.00
15445	NONE	REP. PLAQUE (APOLLO 16)	$30.00
1-72 BY S.MYER	NONE	REP. LTA PLAQUE	$30.00
15415	NONE	PLAQUE W/APOLLO LOGOS	$40.00
12002	NONE	MAP-1ST MANNED ORB. FLGHT	$45.00
NONE	NONE	DOOR PUSHER,BLDG 1	$40.00
NONE	NONE	DOOR PUSHER, BUILDING 1	$40.00
12054	NONE	MODEL, LUNAR ORBITER	$2,500.00
78235	NONE	FLIGHT FILE BOOKS	$1,215.00
APOLLO 15	NONE	MODEL, LUNAR ROCK (2 PCS)	$40.00
NONE	NONE	MODEL, LUNAR ROCK	$45.00

Part/Model #	Serial # (if applicable)	Description	Cost
NONE	NONE	MODEL, LUNAR ROCK (2 PCS)	$40.00
NONE	NONE	MODEL, LUNAR ROCK	$40.00
NONE	NONE	MODEL, LUNAR ROCK	$20.00
NONE	NONE	MODEL, LUNAR ROCK	$20.00
NONE	NONE	MODEL, LUNAR ROCK	$40.00
NONE	NONE	MODEL, LUNAR ROCK	$30.00
NONE	NONE	ROCK MODEL "GENESIS ROCK'	$40.00
STS-43	NONE	MODEL, LUNAR ROCK	$20.00
STS-40	NONE	MODEL, LUNAR ROCK	$20.00
GEMINI	NONE	MODEL, LUNAR ROCK	$20.00
APOLLO	NONE	MODEL, LUNAR ROCK	$20.00
FLOWN ON ASTP	NONE	MODEL, LUNAR ROCK	$20.00
APOLLO 8	NONE	MODEL, LUNAR ROCK	$20.00
APOLLO 8	NONE	MODEL, LUNAR ROCK	$20.00
NONE	GRISSOM,CHAFEE	MODEL, LUNAR ROCK	$20.00
APOLLO 9	NONE	FLIGHT BOOKS	$270.00
STS-32	NONE	FLIGHT BOOKS	$1,485.00
NONE	NONE	SPACE FOOD	$18.00
NONE	NONE	SPACE FOOD	$34.00
P/N SED13101630	NONE	FLAG, DEPT. OF DEFENSE	$40.00
P/N SED13101631	NONE	RESOLUTION, H.S.R. 121	$5.00
P/N SED13101632	NONE	RESOLUTION, SENATE, 474	$20.00
P/N ST10F136901	NONE	RESOLUTION, SENATE NO 10	$10.00
P/N 528-40836-1	NONE	RESOLUTION, H.C.R. 59	$5.00
60135	NONE	FLIGHT BOOKS	$450.00
GENESIS	NONE	SHUTTLE FOOD DISPLAY	$50.00
NONE	NONE	SH. TILE/RSI DSPLY.	$25.00
NONE	NONE	SHUTTLE TROUSERS	$48.00
60035	NONE	POCKET FOR SHUTTLE SUIT	$27.00
NONE	NONE	SLEEP SHORTS, SHUTTLE	$40.00
NONE	NONE	SLIPPER SOCKS, SHUTTLE	$13.00
RETURN TO	NONE	NAME TAG, MAE JEMISON	$10.00
NONE	NONE	MODEL, LUNAR ROCK	$40.00
858-1	119	MODEL, LUNAR ROCK	$40.00
NONE	NONE	MODEL, LUNAR ROCK	$40.00

Part/Model #	Serial # (if applicable)	Description	Cost
1/10 APOLLO	NONE	MODEL, LUNAR ROCK	$40.00
APOLLO	NONE	LUNAR SAMPLE MAN-MADE REP	$40.00
NONE	NONE	MODEL, CSM/ASTP	$100.00
NONE	NONE	PARTIAL LUNAR GLOBE MODEL	$25.00
NONE	NONE	HOUSE RESOLUTION 574	$25.00
NONE	IES1-1000	ARTWORK, MANNED S/FLIGHT	$8,000.00
NONE	PEI-1000	SNOOPY CAP ASSEMBLY	$50.00
NONE	NONE	PHOTO,PRES.FORD/ASTP CREW	$20.00
NONE	NONE	COMMAND MODULE MODEL	$200.00
SEY44102245-301	NONE	CLOTH EMBLEMS (11 EACH)	$50.00
G020-1001	0165	NAME TAGS -BRAND (25EACH)	$25.00
G020-1002	0166	MODEL,SPACE STA. FREEDOM	$1,000.00
SED12100372-311	069	AP. COM. MOD. BOILERPLATE	$4,000.00
SED12100372-303	123	EXER. SYS.(ISOTONIC)	$25,710.00
1/200 SCALE	NONE	ERGOMETER	$34,336.00
HGU 2A/P	MIL-H-26671B	EXER. MACHINE ROPE PULL	$20,000.00
HGU 2A/P	MIL-H-26671B	1/100 SPACE STATION MODEL	$500.00
900-002-006-03	S/N-007 SZ/NA	LUNAR LANDER (ARTEMIS)	$35,000.00
900-002-006-04	S/N-237 SZ/LG	HELMET, LAUNCH ENTRY	$750.00
900-002-042-01	S/N 001 SZ/MED	HELMET, LAUNCH ENTRY	$750.00
900-002-042-01	S/N 002 SZ/MED	HELMET, LAUNCH ENTRY	$750.00
900-002-042-02	S/N 002 SZ/LG	HELMET, LAUNCH ENTRY	$750.00
11813	18 335A00000	MODEL, SPACE STATION	$300.00
W/WOOD FORMICA	BASEW/GRAPH FAB	HELMET FLYING	$1,360.00
NONE	NONE	HELMET, FLYING	$1,500.00
NONE	NONE	HELMET ASSY (SHUTTLE)	$1,500.00
NONE	NONE	HELMET ASSY (SHUTTLE)	$1,500.00
NONE	NONE	HELMET ASSY (SHUTTLE)	$1,500.00
PLEXIGLASS COV	LOCKING DOORS	HELMET ASSY (SHUTTLE)	$1,500.00
SS WIND TUNNEL	NONE	HELMET ASSY (SHUTTLE)	$1,500.00
MC615-0001-0210	S/N 24 CASE 521	CENTRAL PROCESSING UNIT	$300,000.00
MC615-000-0314	S/N 24 CASE 521	INPUT/OUTPUT PROCESSOR	$300,000.00
A7LB-203034-07	331 MUSGRAVE	MANNED MANEUVERING UNIT(MMU)	$1,000.00
APOLLO	SATURN 1-B	1/15 SHUTTLE ORBITER MODE	$11,000.00
ON PIGGYBACK	EARLY CONFIGURA	SHUTTLE TILE DISPLAY	$500.00

Part/Model #	Serial # (if applicable)	Description	Cost
W/PALLET	NONE	1/48 APOLLO-SOYUZ MODEL	$200.00
APOLLO LITE WT	CPS04-01 & 02 C	1/100 SHUTTLE MODEL	$300.00
APOLLO	NONE	1/50 SHUTTLE MODEL	$3,000.00
10FT BLU CARPET	COV & 2 CARRING	DISPLAY CASE 25X38X20-1/2	$500.00
APOLLO 11	LEFT ON MOON	MODEL 1/100 SCALE	$100.00
APOLLO 11	LEFT ON MOON	APOLLO EV GLOVE W/LINER	$25.00
APOLLO 11	LEFT ON MOON	MODEL 1/48 SCALE	$200.00
34X36 W/MULTI	ASTRONAUT SIGNA	MODEL 1/100 SCALE SHUTTLE	$200.00
FLAGFLOWN AP 15	NONE	MODEL 1/10 SCALE SPACELAB	$400.00
SHUTTLE STACK	OLD CONFIGURATI	FIRE GLOVES; MODEL T-6	$50.00
APOLLO	LM MODEL	HEAT SHIELD 4X4X2	$50.00
APOLLO	SOYUZ	BLANK PORTABLE POPUP DISP	$3,500.00
NONE	NONE	PLAQUES REPLICA	$40.00
SPACE SHUTTLE	NONE	PLAQUES REPLICA	$40.00
SPACE SHUTTLE	CUT-A-WAY	PLAQUES REPLICA	$40.00
SIMULATOR	PLEXI-CASE	PLAQUE PLOTBDTRACE/APO-11	$100.00
RS 1801C	LUNAR MODULE	PLAQUE APOLLO/JAPANESE	$50.00
BLK FORMICA B	W/SQ PLEXI TOP	MODEL/1/100 SCALE	$100.00
GRY FORMICA B	PLEXI-TOP LOCK	MODEL 1/25 SCALE	$50.00
GRY FORMICA B	PLEXI-TOP LOCK	MODEL 1/25 SCALE	$400.00
GRY FORMICA B	PLEXI-TOP LOCK	MOON ROCK REPLICA BLACK	$20.00
SKYLAB VERSION	NONE	MODEL 1/100 SCALE STACK	$100.00
40X24X48	NASA TOWN MEETI	CENTAUR SPACE TUG	$150.00
NONE	71-1/4X21-1/2-2	MODEL APOLLO COM MISSION	$200.00
P/N STSGIF-74	006 15X	ROCKET ENG ASSY APOLLO	$1,000.00
P/N STSGIF-74	13-1/2X14X1-1/2	DISPLAY CASE 18X18X56	$200.00
NONE	PLEXI-FRONT/SID	DISPLAY CASE 70X20X39	$500.00
NONE	NONE	DISPLAY CASE 70X20X39	$500.00
NONE	PLEXI-TOP	DISPLAY CASE 70X20X39	$500.00
APOLLO 16	L/SITE, DESCART	SATURN V MODEL 1/96 SCALE	$200.00
APOLLO 16	L/SITE, DESCART	SPACE STAT LIGHTED BASE	$500.00
APOLLO 15	L/SITE, HADLEY	DISPLAY CASE LIGHTED	$200.00
APOLLO 15	L/SITE, HADLEY	PLAQUE, STS-74 PRES.	$50.00
APOLLO 17	L/SITE, TAURUS	PLAQUE, STS-76 PRES.	$50.00
APOLLO 17	L/SITE, TAURUS	DISPLAY CASE 38X24X80	$300.00

Part/Model #	Serial # (if applicable)	Description	Cost
APOLLO 17	L/SITE, TAURUS	DISPLAY CASE 22 1/2X22X66	$50.00
APOLLO 17	L/SITE, TAURUS	DISPLAY CASE 32X18X51	$50.00
APOLLO 17	L/SITE, TAURUS	MAPS LUNAR SURF 3D RELIEF	$50.00
APOLLO 17	L/SITE, TAURUS	MAPS LUNAR SURF 3D RELIEF	$50.00
APOLLO 17	L/SITE, TAURUS	MAPS LUNAR SURF3D RELIEF	$50.00
0A2589	S/N 8301	MAPS LUNAR SURF3D RELIEF	$50.00
161000-1	S/N 1230	MAPS LUNAR SURF3D RELIEF	$50.00
161000-1	S/N 0141	MAPS LUNAR SURF3D RELIEF	$50.00
161000-1	S/N 0245	MAPS LUNAR SURF3D RELIEF	$50.00
YC 1951	8301	MAPS LANAR SURF3D RELIEF	$50.00
YC 1935	S/N 7062	MAPS LUNAR SURF3D RELIEF	$50.00
YC1965	S/N 8300	MAPS LUNAR SURF3D RELIEF	$50.00
PP1495	S/N 7029	MAPS LUNAR SURF3D RELIEF	$500.00
PP1496	S/N 8306	CONSOLE (MCC) INPT/OPT	$8,000.00
SZ EXT LG/SHORT	NONE	TV MONITOR (CONS)	$1,873.00
SZ EXT LG/SHORT	NONE	TV MONITOR (CONS)	$1,992.00
SZ EXT LG/SHORT	NONE	TV MONITOR (CONS)	$1,992.00
SZ EXT LG/SHORT	NONE	PANEL INDICATOR(CONS)	$2,074.00
SZ EXT LG/SHORT	NONE	PANEL INDICATOR (CONS)	$1,200.00
SZ EXT LG/SHORT	NONE	PANEL INDICATOR (CONS)	$3,231.00
SZ EXT LG/SHORT	NONE	CONS POW SUPPLY ASSY	$4,600.00
SZ EXT LG/SHORT	NONE	CONS POW SUPPLY ASSY	$2,157.00
SZ EXT LG/SHORT	NONE	ASTRONAUT TROUSERS	$125.00
SZ EXT LG/SHORT	NONE	ASTRONAUT TROUSERS	$125.00
SZ EXT LG/SHORT	NONE	ASTRONAUT TROUSERS	$125.00
SZ EXT LG/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/LONG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/SHORT	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ LG/REG	NONE	ASTRONAUT TROUSERS	$125.00

Part/Model #	Serial # (if applicable)	Description	Cost
SZ MED/LONG	NONE	ASTRONAUT TROUSERS	$125.00
SZ MED/LONG	NONE	ASTRONAUT TROUSERS	$125.00
SZ MED/SHORT	NONE	ASTRONAUT TROUSERS	$125.00
SZ EXT LG/SHORT	NONE	ASTRONAUT TROUSERS	$125.00
SZ EXT SM/REG	NONE	ASTRONAUT TROUSERS	$125.00
SZ SM/EXT SHORT	NONE	ASTRONAUT TROUSERS	$125.00
SZ SM/LONG	NONE	ASTRONAUT TROUSERS	$125.00
SZ SM/LONG	NONE	ASTRONAUT TROUSERS	$125.00
SZ SM/LONG	NONE	ASTRONAUT TROUSERS	$125.00
SZ SM/LONG	NONE	ASTRONAUT TROUSERS	$125.00
CLASS III	NONE	ASTRONAUT TROUSERS	$125.00
NO HANDS	NONE	ASTRONAUT TROUSERS	$125.00
NO HANDS	NONE	ASTRONAUT TROUSERS	$125.00
NO HANDS	NONE	ASTRONAUT TROUSERS	$125.00
STS-79 PLAQ	P/N STSGIF79	ASTRONAUT TROUSERS	$125.00
NONE	NONE	ASTRONAUT TROUSERS	$125.00
NONE	NONE	ASTRONAUT TROUSERS	$125.00
1/50 SC	NONE	ASTRONAUT TROUSERS	$125.00
NONE	NONE	SLIPPER SOCKS, SHUTTLE	$12.00
NONE	NONE	MANIKIN, ARTICULATED/MALE	$200.00
NONE	NONE	MANIKIN, ARTICULATED/MALE	$200.00
STS-81-GIF	005	MANIKIN, ARTICULATED/MALE	$200.00
OA2586	8301/P/N99-3622	PROTOTYPE SHUTTLE MISSION	$50.00
PP1495	7054/P/N82-3017	IAH SPINOFF DISPLAY	$3,300.00
SED18100513-301	NONE	SHUTTLE PRINTER	$167,300.00
161000-1	0397/SP32811A15	AIRLOCK, METAL	$500.00
161000-1	0397/SP32811A15	SHUTTLE STACK MODEL	$733.00
161000-1	0397/SP32811A15	INTELSAT VI 1 PYLD MOCKUP	$31,420.00
YC1935	8501/P/N N/A	SHUTTLE MOCKUP FLT SUIT	$70.00
YC1935	8239/P/N85912-0	SHUTTLE MOCKUP FLT SUIT	$70.00
OA2612	7001/P/N99-3612	STS-81 PRESENTATION PLAQ.	$50.00
PP1496	82022/P/N82-301	CONSOLE, INPUT-OUTPUT	$8,500.00
PP1495	8349/P/N8230175	POWER SUPPLY ASSEM	$4,600.00
YC1935	7035/P/N85-1891	MONITOR, TELEVISION	$1,992.00
161000-1	0001/P/NSP32811	MONITOR, TELEVISION	$1,992.00

Part/Model #	Serial # (if applicable)	Description	Cost
YC1951	7020/P/N85-1154	MONITOR, TELEVISION	$1,992.00
161000-1	0080/P/NSP32811	PANEL INDICATOR	$2,074.00
OA2543	7001/P/N99-3611	PANEL INDICATOR	$1,200.00
PP1495	8404/P/N82-3017	CONSOLE, INPUT-OUTPUT	$9,000.00
161000-1	0291/P/NSP32811	POWER SUPPLY ASSEM	$2,775.00
YC1967	7001P/N85-03840	POWER SUPPLY ASSEM	$2,775.00
161000-01	274P/NSP32811A1	PANEL INDICATOR	$1,200.00
YC1935	7054/P/N N/A	MONITOR, TELEVISION	$1,873.00
YC1951	8236P/N85-15430	PANEL INDICATOR	$2,074.00
161000-1	0064P/NSP32811A	MONITOR, TELEVISION	$1,992.00
OA2616	7001P/N99-36132	CONSOLE, INPUT-OUTPUT	$15,255.00
PP1496	82021P/N82-3017	POWER SUPPLY ASSEM	$4,600.00
PP1495	8321P/N82-30175	MONITOR, TELEVISION	$1,992.00
GDM-1601	2001086 P/N N/	PANEL INDICATOR	$3,231.00
YC1935	7008P/N85-18912	MONITOR, TELEVISION	$1,992.00
YC1951	7028P/N85-15430	PANEL INDICATOR	$1,200.00
161000-1	0268P/NSP32811A	PANEL INDICATOR	$2,074.00
161000-0-1	0403P/NSP32811A	MONITOR, TELEVISION	$1,873.00
NONE	NONE	CONSOLE, INPUT-OUTPUT	$8,000.00
PP1495	82026P/N82-3017	POWER SUPPLY ASSEM	$2,157.00
PP1495	8310P/N82-30175	POWER SUPPLY ASSEM	$4,600.00
YC1935	7070P/N85-18912	DISPLAY UNIT	$3,060.00
161000-1	0024P/NSP32811A	PANEL INDICATOR	$1,200.00
161000-1	351P/N32811A15I	PANEL INDICATOR	$2,074.00
YC1951	7024P/N85-15430	MONITOR, TELEVISION	$1,992.00
NONE	NONE	MONITOR, TELEVISION	$1,992.00
NONE	NONE	POWER SUPPLY ASSEM	$4,600.00
YC1935	7070P/N85-18912	PANEL INDICATOR	$1,200.00
161000-1	0024P/NSP32811A	MONITOR, TELEVISION	$1,873.00
161000-1	351P/N32811A15I	MONITOR, TELEVISION	$1,992.00
YC1951	7024P/N85-15430	PANEL INDICATOR	$2,074.00
NONE	NONE	DISPLAY, SPACE FLIGHT EXHIBIT	$30,000.00
N/A	N/A	MODEL, INTERNATIONAL SPACE STATION, 1/144TH SCALE	$930.46
N/A	N/A	MODEL, INTERNATIONAL SPACE STATION, 1/144TH SCALE	$930.46
NONE	NONE	DISPLAY, FAST FOOD IN SPACE EXHIBIT	$4,600.00

Part/Model #	Serial # (if applicable)	Description	Cost
			$18,548,977.17

Attachment J-14
List of
Government Furnished Property
Pursuant to FAR 52.245-2

Serial	Model	Manufacturer	Description	Cost	Bldg	Room_No
003595	FP204000AV	QUIET AIR	AIR COMPRESSOR	$114.43	JS-227	DOOR 6
N/A	00915310000	CRAFTSMAN	AIR COMPRESSOR (3 GAL)	$104.99	JS-8	Zero Discharge
N/A	B10-100	SCHWINN	BICYCLE	$370.31	JS-8	251A
N/A	B10-100	SCHWINN	BICYCLE	$370.31	JS-8	251A
N/A	GTO3BK	ANTHRO	CART	$293.49	JS-16	2124
N/A	RNR-12	MULTI-CART	CART, ALL TERRAIN	$252.72	JS-8	298
N/A	GTO3BK	ANTHRO	CART, BLACK COMPACT	$237.43	JS-16	2125A
NONE	075BK	ANTHRO	CART, BLACK COMPACT	$483.02	JS-227	6
NONE	075BK	ANTHRO	CART, COMPACT	$377.88	JS-1	360
N/A	N/A	CLEAR ONE	CART, EQUIPMENT	$456.75	JS-15	167
N/A	GTO3BK	ANTHRO	CART, HAND	$2,066.96	JS-265	
N/A	4087R	SAFCO	CART, HAND	$373.93	JS-423	107
NONE	4546-00	RUBBERMAID	CART, HAND	$329.12	JS-920N	
936973	DW920K2	DEWALT	CORDLESS DRILL	$118.71	JS-8	2M4
1031048	ZSS41P	SONY	DOCKING STATION, IPOD	$106.22	JS-1	938A
1031601	ZSS41P	SONY	DOCKING STATION, IPOD	$106.22	JS-1	938A
N/A	4087R	SAFCO	DOLLY	$345.25	JS-423	106
N/A	V134973E	B & H	DOLLY, FOLDING	$1,088.80	JS-8	298
3497-09567	3497-3E	VINTEN	DOLLY, FOLDING	$954.36	JS-8	298
N/A	WB952105E	GLOBAL	DOLLY, PLATFORM	$196.47	JS-421	COLD VAULT
968015	DCD970	DEWALT	DRILL	$393.04	JS-8	215
NONE	Z90ENGKIT	ZYLIGHT	KIT, ENG LIGHT	$1,056.99	JS-8	298
NONE	Z90ENGKIT	ZYLIGHT	KIT, ENG LIGHT	$1,056.99	JS-8	298
N/A	022084	TRI ARC	LADDER	$265.13	JS-422	COLD VAULT
052094	57404200	CRAMER	LADDER, FOLDING PLATFORM	$321.88	JS-8	185
204940	L-558R	SEKONIC	LIGHT METER	$537.73	JS-8	251A
204939	L-558R	SEKONIC	LIGHT METER	$537.73	JS-8	251A
204941	L-558R	SEKONIC	LIGHT METER	$537.73	JS-8	251A
204825	L-558R	SEKONIC	LIGHT METER	$537.73	JS-8	251A
204828	L-558R	SEKONIC	LIGHT METER	$537.73	JS-8	251A
205073	L-558R	SEKONIC	LIGHT METER	$537.73	JS-8	251A
201478	L-558CINE	SEKONIC	LIGHT METER	$647.45	JS-8	251A

Serial	Model	Manufacturer	Description	Cost	Bldg	Room_No
074335	P-2000EL-A	SPECTRA CINE	METER, LIGHT	$395.18	JS-9	2170
NONE	3100MM	LIBERTY PLUS	MOSQUITO MAGNET	$625.69	JS-8	174
92430680	117TR	FLUKE	MULTIMETER	$180.58	JS-8	181C
NONE	260	SIMPSON	MULTIMETER	$224.58	JS-9	2170
93460400	187	FLUKE	MULTIMETER, DIGITAL	$401.51	JS-8	215B
00W4ACF45PHF	ZIRE 72	PALM ONE	PALM PILOT, HAND HELD	$313.95	JS-8	218
N/A	IPAQRX3715	HEWLETT PACKARD	PDA	$430.21	JS-8	215
3CC92100K7	IPAQ211	HEWLETT PACKARD	PDA	$402.61	JS-8	215
050746394	MCBR101065	MAGIC CHEF	REFRIGERATOR	$360.12	JS-9	2170
20072100399	183.939	KENMORE	REFRIGERATOR, 3.9 CUBIC FEET	$148.71	JS-2N	114I
678J407470198	6230-6	MILWAUKEE	SAW, BAND	$317.63	JS-8	2m4cage
1300000035	P100S	PELOUZE	SCALE	$108.35	JS-423	106
69100288	11250VSR	BOSCH	SDS DRIVE ELECTRIC ROTARY HAM	$198.65	JS-8	181C
N/A	HDM-6243711-690	FELLOWES	SHREDDER, PAPER	$283.50	JS-227	DOOR 1
TC10009H	CC185	GBC	SHREDDER, PAPER	$243.27	JS-45	154
0505211041	DS 360	PRIMERA	SHREDDER,CD/DVD	$134.98	JS-8	208
020-029-Y-002-3854	MBT 250	PACE	SOLDER/DESOLDER STATION	$1,249.22	JS-8	215
020-029-Y-002-3854	MBT 250	PACE	SOLDER/DESOLDER STATION	$1,249.22	JS-8	215
020029Y01038992	MBT250	PACE	SOLDER/DESOLDER STATION	$1,290.69	JS-8	215A
06515273	TS30	FLUKE	TEST SET	$213.65	JS-8	215B
179-US-D 46610	DC14	DYSON	VACUUM CLEANER, TELESCOPE RE	$456.78	JS-8	215
284820	497	3M	VACUUM, FIELD SERVICE	$212.41	JS-8	103R

Attachment J-15
Security Classification Requirements

The Form DD254 is included in this contract and identifies all NASA, JSC and DOD Industry Security Requirements. There is a requirement for security clearances on this contract. Security clearances are requested through Department of Defense in accordance with the National Industry Security Program Operating Manual (NISPOM), DOD 5220.22-77. This form may be found at http://www.usaid.gov/policy/ads/500/dd254.pdf

The areas and approximate number of clearances required are listed below.

There is a requirement for the following clearances for IT Security personnel involved in monitoring for and responding to IT security incidents as defined below:

a. 1 Top Secret
b. 3 Secret Clearances

For all other contractor personnel, background checks are required.

DEPARTMENT OF DEFENSE
CONTRACT SECURITY CLASSIFICATION SPECIFICATION

(The requirements of the DoD Industrial Security Manual apply to all security aspects of this effort))

1. CLEARANCE AND SAFEGUARDING

a. FACILITY CLEARANCE REQUIRED:

b. LEVEL OF SAFEGUARDING REQUIRED:

2. THIS SPECIFICATION IS FOR: *(X and complete as applicable)*

	a. PRIME CONTRACT NUMBER	
	b. SUBCONTRACT NUMBER	
	c. SOLICITATION OR OTHER NUMBER	DUE DATE *(YYMMDD)*

3. THIS SPECIFICATION IS: *(X and complete as applicable)*

	a. ORIGINAL *(Complete date in all cases)*		Date *(YYMMDD)*
	b. REVISED *(Supersedes all previous specs)*	Revision No.	Date *(YYMMDD)*
	c. FINAL *(Complete item 5 in all cases)*		Date *(YYMMDD)*

4. IS THIS A FOLLOW-ON CONTRACT? ☐ YES ☐ NO, If yes, complete the following

Classified material received or generated under _____ *(Preceding Contract Number)* is transferred to this follow-on contract

5. IS THIS A FINAL DD FORM 254? ☐ YES ☐ NO, If yes, complete the following:

In response to the contractors request dated _____, retention of the identified classified material is authorized for a period of: _____

6. CONTRACTOR *(Include Commercial and Government Entity (CAGE) Code)*

a. NAME, ADDRESS, AND ZIP	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*

7. SUBCONTRACTOR

a. NAME, ADDRESS, AND ZIP	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*

8. ACTUAL PERFORMANCE

a. LOCATION	b. CAGE CODE	c. COGNIZANT SECURITY OFFICE *(Name, Address, and Zip Code)*

9. GENERAL IDENTIFICATION OF THIS PROCUREMENT

10. THIS CONTRACT WILL REQUIRE ACCESS TO:	YES	NO
a. COMMUNICATIONS SECURITY (COMSEC) INFORMATION		
b. RESTRICTED DATA		
c. CRITICAL NUCLEAR WEAPON DESIGN INFORMATION		
d. FORMERLY RESTRICTED DATA		
e. INTELLIGENCE INFORMATION		
(1) Sensitive Compartmented Information (SCI)		
(2) Non-SCI		
f. SPECIAL ACCESS INFORMATION		
g. NATO INFORMATION		
h. FOREIGN GOVERNMENT INFORMATION		
i. LIMITED DISSEMINATION INFORMATION		
j. FOR OFFICIAL USE ONLY INFORMATION		
k. OTHER *(Specify)*		

11. IN PERFORMING THIS CONTRACT, THE CONTRACTOR WILL:	YES	NO
a. HAVE ACCESS TO CLASSIFIED INFORMATION ONLY AT ANOTHER CONTRACTOR'S FACILITY OR GOVERNMENT ACTIVITY		
b. RECEIVE CLASSIFIED DOCUMENTS ONLY		
c. RECEIVE AND GENERATE CLASSIFIED MATERIAL		
d. FABRICATE, MODIFY, OR STORE CLASSIFIED HARDWARE		
e. PERFORM SERVICES ONLY		
f. HAVE ACCESS TO U.S. CLASSIFIED INFORMATION OUTSIDE THE U.S., PUERTO RICO, U.S. POSSESSIONS AND TRUST TERRITORIES		
g. BE AUTHORIZED TO USE THE SERVICES OF THE DEFENSE TECHNICAL INFORMATION CENTER (DTIC) OR OTHER SECONDARY DISTRIBUTION CENTER		
h. REQUIRE A COMSEC ACCOUNT		
i. HAVE TEMPEST REQUIREMENTS		
j. HAVE OPERATIONS SECURITY (OPSEC) REQUIREMENTS		
k. BE AUTHORIZED TO USE THE DEFENSE COURIER SERVICE		
l. OTHER *(Specify)*		

12. PUBLIC RELEASE. Any information *(classified or unclassified)* pertaining to this contract shall not be released for public dissemination except as provided by the Industrial Security Manual or unless it has been approved for public release by appropriate U.S. Government authority. Proposed public releases shall be submitted for approval prior to release

☐ DIRECT ☐ THROUGH *(Specify)*

to the Directorate for Freedom of Information and Security Review, Office of the Assistant Secretary of Defense (Public Affairs)* for review.
*In the case of non-DoD User Agencies, requests for disclosure shall be submitted to that agency.

13. SECURITY GUIDANCE. The security classification guidance needed for this classified effort is identified below. If any difficulty is encountered in applying this guidance or if any other contributing factor indicates a need for changes in this guidance, the contractor is authorized and encouraged to provide recommended changes; to challenge the guidance or the classification assigned to any information or material furnished or generated under this contract; and to submit any questions for interpretation of this guidance to the official identified below. Pending final decision, the information involved shall be handled and protected at the highest level of classification assigned or recommended. *(Fill in as appropriate for the classified effort. Attach, or forward under separate correspondence, any documents/guides/extracts referenced herein. Add additional pages as needed to provide complete guidance.)*

14. ADDITIONAL SECURITY. Requirements, in addition to NISPOM requirements, are established for this contract. *(If Yes, identify the pertinent contractual clauses in the contract document itself, or provide an appropriate statement which identifies additional requirements. Provide a copy of the requirements to the cognizant security office. Use Item 13 if additional space is required.)* ☐ YES ☐ NO

15. INSPECTIONS. Elements of this contract are outside the inspection responsibility of the cognizant security office. *(If yes, explain and identify specific areas or elements carved out and the activity responsible for inspections. Use Item 13 if more space is needed.)* ☐ YES ☐ NO

16. CERTIFICATION AND SIGNATURE. Security requirements stated herein are complete and adequate for safeguarding the classified information to be released or generated under this classified effort. All questions shall be referred to the official named below.

a. TYPED NAME OF CERTIFYING OFFICIAL	b. TITLE	c. TELEPHONE *(Include Area Code)*

d. ADDRESS *(Include Zip Code)*

e. SIGNATURE

17. REQUIRED DISTRIBUTION

☐ a. CONTRACTOR

☐ b. SUBCONTRACTOR

☐ c. COGNIZANT SECURITY OFFICE FOR PRIME AND SUBCONTRACTOR

☐ d. U.S. ACTIVITY RESPONSIBLE FOR OVERSEAS SECURITY ADMINISTRATION

☐ e. ADMINISTRATIVE CONTRACTING OFFICER

☐ f. OTHERS AS NECESSARY

Attachment J – 16
HAZARDOUS MATERIALS LIST

	1,005 individual bags, boxes, jars, tanks, and bins of 300 chemicals
MSDS	**NAME**
37448	1-PART EPOXY ACRYLIC CONCRETE & GARAGE FLOOR PAINT
22730	2000 RT DEVELOPER
2533	2-METHYL-2,4-PENTANEDIOL
37927	409 GLASS & SURFACE CLEANER
34076	AC-236 CLASS B BASE
36762	AC-240 CLASS B ACCELERATOR
36761	AC-240 CLASS B BASE
37622	ACE CPVC ORANGE/MULTIPURPOSE
21896	ACETIC ACID
51	ACETONE
21232	ACTIVATORS, 5301 & 6001
21403	ACTOCLEAN
31619	ACTOCLEAN
10301	ALUMINUM POTASSIUM SULFATE
296	AMINOPHENOL, 4-
33272	AMMONIUM ACETATE
11606	AMMONIUM BROMIDE
17100	AMMONIUM CHLORIDE
316	AMMONIUM HYDROXIDE
326	AMMONIUM NITRATE
330	AMMONIUM PERSULFATE
343	AMMONIUM THIOCYANATE
31187	AMMONIUM THIOSULFATE, 60%
36266	ANTI NEWTON SPRAY
6745	ANTI-FOG NO. 1
1392	ANTI-FOG NO. 9
39566	ANTI-NEWTON SPRAY
22583	ANTI-OPAQUE CLEANER
36132	ARMAFLEX 520 ADHESIVE
34348	ARMSTRONG S-750 PREMIUM TILE ADHESIVE
4889	ASCORBIC ACID, L-
33278	BARIUM DIPHENYLAMINESULFONATE
19127	BENTONITE
535	BENZYL ALCOHOL
556	BESTINE
32715	BLEND 1698
36520	BLUE VISION
9435	BORIC ACID
12089	BROMOCRESOL PURPLE
6088	BUTANOL
21447	BUTYL ACETATE
39787	CASTLE SHOP SOLV
29137	CAUSTIC POTASSIUM FLAKE

847	CERIC AMMONIUM NITRATE
29142	CHEM KWIK
21946	CITRAZINIC ACID
950	CITRIC ACID
4931	CLEANING COMPOUND, OPTICAL LENS
37444	CLEAR GLIDE WIRE PULLING LUBRICANT
34447	COMPOUND 302
35177	CONCRETE BONDING ADHESIVE
39570	CP48S P2-R BLEACH FIX/REP., PART A (PC)
39565	CP48SII P1 DEV. PART A (START-UP KIT) (422 ML)
39569	CP48SII P1-R DEVELOPER/REP. (PC), 2X1.3L
39568	CP48SII P2 BL/FX PART B START-UP KIT (750ML)
39571	CP48SII P2-R BL./FIX REP. PART B (PC), 2X1.3L
39572	CP49E P1 DEV. PART A (START-UP KIT), 2X356ML
39573	CP49E P1 DEV. PART B (START-UP KIT), 2X377ML
39576	CP49E P1-R DEVELOPER/REP. (PC), 2X1.3L
39574	CP49E P2 BL./FIX PART A (START-UP KIT) 2X500ML
39575	CP49E P2 BL./FIX PART B (START-UP KIT) 2X661ML
39577	CP49E P2-R BL./FIX REP. PART A (PC), 2X1.3L
39578	CP49E P2-R BL./FIX REP. PART B (PC), 2X1.3L
33277	CRESOL PURPLE, M-
10085	DIMEZONE S
33262	DRIMARQUETTE TWO
6375	DURO NAVAL JELLY RUST DISSOLVER NJ-1,-2,-1A,-3,-4,-1-6
1139	E6 DEFOAMER
34410	E6 FIRST DEVELOPER AND REPLENISHER
31646	E6 FIRST DEVELOPER REPLENISHER
3306	E6AR REVERSAL BATH AND REPLENISHER
29306	E7 COLOR DEVELOPER & REPLENISHER
23612	E7/ECN-2 FIXER
22000	E7/ECN-2 FIXER (ALLEN)
17038	ETHYL ACETATE
17724	ETHYLENEDIAMINE DISODIUM SALT
17098	ETHYL-N-2-HYDROXYETHYL PARAPHENELENEDIAMINE SULFATE, N-
1608	FANTASTIK ALL PURPOSE CLEANER
6464	FEDRON
32732	FERRIC NITRATE SOLUTION
1635	FERRIC SULFATE, MONOHYDRATE
4887	FERROIN INDICATOR
1643	FERROUS AMMONIUM SULFATE, HEXAHYDRATE
29181	FILTER AGENT, CELITE, HIGH-PURITY ANALYTICAL GRADE
39875	FLORAL FRESH CLOROX DISINFECTING SPRAY
32722	FSX-3 AEROSOL, BULK LIQUID
40074	FUJI CP RA 95 DEVELOPER REPLENISHER, PART A
40075	FUJI CP RA 95 DEVELOPER REPLENISHER, PART B
40076	FUJI CP RA 95 DEVELOPER REPLENISHER, PART C
40073	FUJI CP RA 95 DEVELOPER WORKING TANK SOLUTION

33261	FUJI SUPER CONDITIONING TABLETS FSC100
1810	GELATIN
37449	GENERAL PURPOSE SPRAY PAINT, ANTI-RUST FLAT BLACK
21943	GLYCERIN
1993	GLYPTAL 1276 ADHESIVE CEMENT
36462	GORILLA GLUE
10882	HEXADECYLTRIMETHYLAMMONIUM BROMIDE
33276	HEXADECYLTRIMETHYLAMMONIUM BROMIDE
20726	HYDROBROMIC ACID, 48%
33279	HYDROBROMIC ACID, 48%
34560	HYDROCHLORIC ACID
2021	HYDROCHLORIC ACID 37% SOLUTION
39876	HYDROGEN CLORIDE (AQUEOUS), MURATIC ACID
2025	HYDROXYLAMINE SULFATE
37439	INDUSTRIAL CHOICE DTM ACRYLIC TOPCOATS
22522	INK, BLACK
2078	INSECTICIDE, D-TRANS ALLETHRIN & RESMETHRIN (AEROSOL), GSA
16250	INSTANT SCRATCH REPAIR, #933
11126	ISOPROPYL ALCOHOL CLEANER/DEGREASER
9935	ISOPROPYL ALCOHOL
38521	KASENIT SURFACE HARDENING COMPOUND
21886	KODAK AERATION TEST SOLUTION MX-1037
397	KODAK ANTI-CALCIUM #4
10141	KODAK ANTI-CALCIUM #8
21887	KODAK BALANCED ALKALI - SODIUM METABORATE OCTAHYDRATE
29147	KODAK BLACK OPAQUE
9159	KODAK CHELATING AGENT #1
31642	KODAK COLOR DEVELOPER PROCESS E-6, WORKING SOLUTION
31642	KODAK COLOR DEVELOPER REPLENISHER, PROCESS E-6AR
1017	KODAK COLOR DEVELOPING AGENT CD-2
1018	KODAK COLOR DEVELOPING AGENT CD-3
22182	KODAK DEVELOPER D-11- WORKING SOLUTION
22524	KODAK DURAFLO RT DEVELOPER REPLENISHER, PART A
1336	KODAK DURAFLO RT DEVELOPER STARTER
10054	KODAK E6 FINAL RINSE
1362	KODAK E6 TRANSPARENCY RETOUCHING DYE (MAGENTA)
1360	KODAK E6 TRANSPARENCY RETOUCHING DYE BUFFER
1361	KODAK E6 TRANSPARENCY RETOUCHING DYE, CYAN
1363	KODAK E6 TRANSPARENCY RETOUCHING DYE, YELLOW
32709	KODAK EKTACOLOR BLEACH FIX (CUSTOM)
9163	KODAK EKTACOLOR BLEACH FIX WORKING SOLUTION (HOSTERT 35)
9161	KODAK EKTACOLOR RA BLEACH FIX & REPLENISHER, PART A
9162	KODAK EKTACOLOR RA BLEACH-FIX & REPLENISHER, PART B
1502	KODAK ELON DEVELOPING AGENT
1671	KODAK FIXER WASH SYSTEM CLEANER
20732	KODAK FLEXICOLOR AR DEVELOPER REPLENISHER
9171	KODAK FLEXICOLOR AR DEVELOPER REPLENISHER,

	PART A
9173	KODAK FLEXICOLOR AR DEVELOPER REPLENISHER, PART B
9174	KODAK FLEXICOLOR AR DEVELOPER REPLENISHER, PART C
9643	KODAK FLEXICOLOR BLEACH III
9640	KODAK FLEXICOLOR BLEACH III REGENERATOR
9641	KODAK FLEXICOLOR BLEACH III REPLENISHER, PART A
9642	KODAK FLEXICOLOR BLEACH III REPLENISHER, PART B
9646	KODAK FLEXICOLOR BLEACH III STARTER
1687	KODAK FLEXICOLOR DEVELOPER STARTER
1688	KODAK FLEXICOLOR FIXER AND REPLENISHER
37049	KODAK FLEXICOLOR SM TANK BLEACH / C-41SM
29739	KODAK FLEXICOLOR STABILIZER III & REPLENISHER/C-41; WORKING SOLUTION
5537	KODAK LENS CLEANER
22525	KODAK LIQUID DEVELOPER SYSTEM CLEANER
2330	KODAK LIQUID RETOUCHING COLOR, BROWN
2331	KODAK LIQUID RETOUCHING COLOR, CYAN
2332	KODAK LIQUID RETOUCHING COLOR, GREEN
2333	KODAK LIQUID RETOUCHING COLOR, MAGENTA
2334	KODAK LIQUID RETOUCHING COLOR, NEUTRAL
2335	KODAK LIQUID RETOUCHING COLOR, ORANGE
2336	KODAK LIQUID RETOUCHING COLOR, RED
2337	KODAK LIQUID RETOUCHING COLOR, YELLOW
2958	KODAK PERSULFATE BLEACH ACCELERATOR
3014	KODAK PHOTO-FLO 200 SOLUTION
39567	KODAK PRE-BLEACH & REPLENISHER II, PROCESS E-6AR
36267	KODAK PRE-BLEACH & REPLENISHER II, PROCESS E-6AR
3174	KODAK PROFESSIONAL FILM CEMENT
11381	KODAK RAPID FIXER & REPLENISHER
17836	KODAK RAPID FIXER, PART A
2329	KODAK RETOUCHING COLORS
3303	KODAK RETOUCHING FLUID
22520	KODAK RETOUCHING PIGMENT, CROCEIN SCARLET
3806	KODAK STABILIZER ADDITIVE
39874	KRYLON FUSION FOR PLASTIC, SUNBEAM
37946	KRYLON INDUSTRIAL IRON GUARD DTM WATER-BASED
37443	KRYLON INTERIOR/EXTERIOR PAINT, CLEAR SATIN FINISH
35822	KRYLON INTERIOR/EXTERIOR PAINT, ULTRA FLAT BLACK
21424	LIQUID PAPER CORRECTION FLUID THINNER 565
2318	LIQUI-NOX
32733	LITHIUM SULFATE
8157	LOGETRONICS GLASS CLEANER, #83006
36839	LUBRICATING OIL, GENERAL PURPOSE
26497	METHANOL
33716	METHANOL
4888	METHYL RED

21948	METHYL RED
30044	MINERAL SPIRITS KLEAN STRIP, PN-GMS44
32450	MINWAX INDOOR/OUTDOOR HELMSMAN SPAR URETHANE, CLEAR SEMI-GLOSS
32720	NACCO FILM CLEANER
21892	NATROSOL (HYDROXYETHYLCELLULOSE)
33263	NO SCRATCH
9647	NOSTAT-X PLUS
7759	NOVUS PLASTIC POLISH #1
2812	OAKITE 33
29674	OATEY CPVC SOLVENT CEMENT
6418	OPAQUING SOLUTION HIGH SPEED BLACKOUT
37764	OPTICAL LENS CLEANING COMPOUND - TYPE 1
35922	PAINTERS TOUCH AEROSOL TOP COATS (ALL COLORS)
32889	PALMOLIVE ULTRA DISHWASHING LIQUID
12452	PARADE ALL-PURPOSE BLEACH
22521	PEC-12, PHOTOGRAPHIC EMULSION CLEANER
10173	PH 10.00 BUFFER
11361	PH 4.00 BUFFER
10142	PH 7.00 BUFFER
2970	PHENANTHROLINE, 1,10-
10084	PHENIDONE
2979	PHENOLPHTHALEIN
33274	PHENYL-5-PHENYLMERCAPTOTETRAZOLE, 1-
31239	PHILUBE ALL PURPOSE GREASE
23439	PHOSPHORIC ACID, REAGENT ASC
34245	PLASTI DIP AND PLASTI DIP UV
32719	PLATINUM TEXTURE T/U
21891	POLY(SODIUM 4-STYRENESULFONATE)
39672	POLYCRYLIC PROTECTIVE FINISH
21889	POLYVINYL ALCOHOL
3088	POTASSIUM BOROHYDRIDE
3091	POTASSIUM BROMIDE
3093	POTASSIUM CARBONATE
22919	POTASSIUM CARBONATE DENSE GRANULAR
3095	POTASSIUM CHLORIDE
13016	POTASSIUM FERRICYANIDE
33265	POTASSIUM HYDROXIDE SOLID
4884	POTASSIUM IODATE
3118	POTASSIUM IODIDE
3120	POTASSIUM NITRATE
3125	POTASSIUM PERSULFATE
20223	POTASSIUM SULFITE 45%
21900	POTASSIUM THIOCYANATE
10077	PROPIONIC ACID
35003	PTOUCH GLOSS BLACK
18351	PVC CEMENT
33275	PYRIDYLAZO-2-NAPHTHOL, 1,2-

25845	QUICKLEEN II; 611
10083	REVERSAL AGENT RA-4
37437	RUST-OLEUM SPECIALTY COATING CLEAR LACQUER AEROSOL
37435	RUST-OLEUM STOPS RUST ENAMEL-BRUSH TOPCOATS
33510	SAFETY BLUE 9602176
8004	SCRATCH COAT LACQUER
37450	SEARS BEST WEATHERBEATER EXTERIOR LATEX SEMI-GLOSS
4010	SEQUESTRENE 220
18439	SILICA GEL DESSICANT
36265	SILICONE ANTIFOAM (COLD WATER)
37096	SILICONE SURFACE RENOVATOR
21899	SILVER BROMIDE
3572	SILVER NITRATE
17147	SODIUM (TETRA) ETHYLENEDIAMINE TETRAACETATE
3597	SODIUM ACETATE
3614	SODIUM BICARBONATE
32714	SODIUM BICARBONATE
14208	SODIUM BORATE DECAHYDRATE ACS REAGENT
3623	SODIUM BROMIDE
32725	SODIUM BROMIDE
3629	SODIUM CARBONATE, MONOHYDRATE
18742	SODIUM CARBONATE, MONOHYDRATE
28184	SODIUM CHLORIDE
3636	SODIUM CITRATE
13487	SODIUM HEXAMETAPHOSPHATE
7667	SODIUM HYDROXIDE 50%
3664	SODIUM HYDROXIDE GR
5997	SODIUM METABISULFITE
18743	SODIUM METABISULFITE
3675	SODIUM METABORATE
4882	SODIUM METAPHOSPHATE
17973	SODIUM MONOHYDROGEN PHOSPHATE
3687	SODIUM PERSULFATE
3688	SODIUM PERSULFATE
34449	SODIUM PHOSPHATE MONOBASIC
35142	SODIUM PHOSPHATE MONOBASIC DEHYDRATE P.A.
31213	SODIUM SULFATE
3702	SODIUM SULFIDE, NANOHYDRATE
3705	SODIUM SULFITE, ANHYDROUS
3706	SODIUM SULFITE, ANHYDROUS
3620	SODIUM TETRABORATE
3714	SODIUM THIOCYANATE
6354	SOLVENT 111, GENERAL PURPOSE GRADE, INDUSTRIAL GRADE
1232	SPARCO DUPLICATOR FLUID (SPIRIT FLUID)
8163	SPECIALLY DENATURED ALCOHOL (SDA) 3A, 190 PROOF
36523	SS-3 STAINLESS STEEL CLEANER-LIQUID
37440	STAINLESS STEEL CLEANER

37095	STAINLESS STEEL MAGIC
3827	STARCH
21898	SUDAN 1
3885	SULFURIC ACID 95-98%
17142	TARGONE
34085	TEGOCHROME 22 DTO
20400	TETRACHLOROETHYLENE
4069	THIOUREA
37098	THREADSEALER, 907 TS
29754	THREE-IN-ONE MULTI-PURPOSE OIL
21897	THYMOL BLUE
15790	TOLUENE
9253	TRICHLOROETHANE, 1,1,1-; AEROSOL GRADE /CP, #87440
6370	TRI-FLOW
9109	TRI-FLOW (PETROLEUM DISTILLATES CHLORINATED SOLVENTS & ADDITIVES)
35481	TRI-FLOW SUPERIOR LUBRICANT WITH TEFLON (AEROSOL)
13854	TRYPSIN
22518	UL BLEACH & REPLENISHER
33603	ULTRA CLOROX BRAND INSTITUTIONAL BLEACH
39783	VAL ULTRA PREM INT S/G WHITE
4344	WD-40
25799	WEBER COSTELLO MARKER BOARD CLEANER
4347	WELD-ON P-70 PRIMER FOR PVC/CPVC PLASTIC PIPE
4880	ZINC SULFATE, HEPTAHYDRATE

Attachment J-17
Phase-In Plan

(To be provided by Contractor)

Attachment J-18
PERSONAL IDENTITY VERIFICATION (PIV) CARD ISSUANCE PROCEDURES

PIV Card Issuance Procedures in accordance with FAR clause 52.204-9, Personal Identity Verification of Contractor Personnel

FIPS 201 Appendix A graphically displays the following procedure for the issuance of a PIV credential.

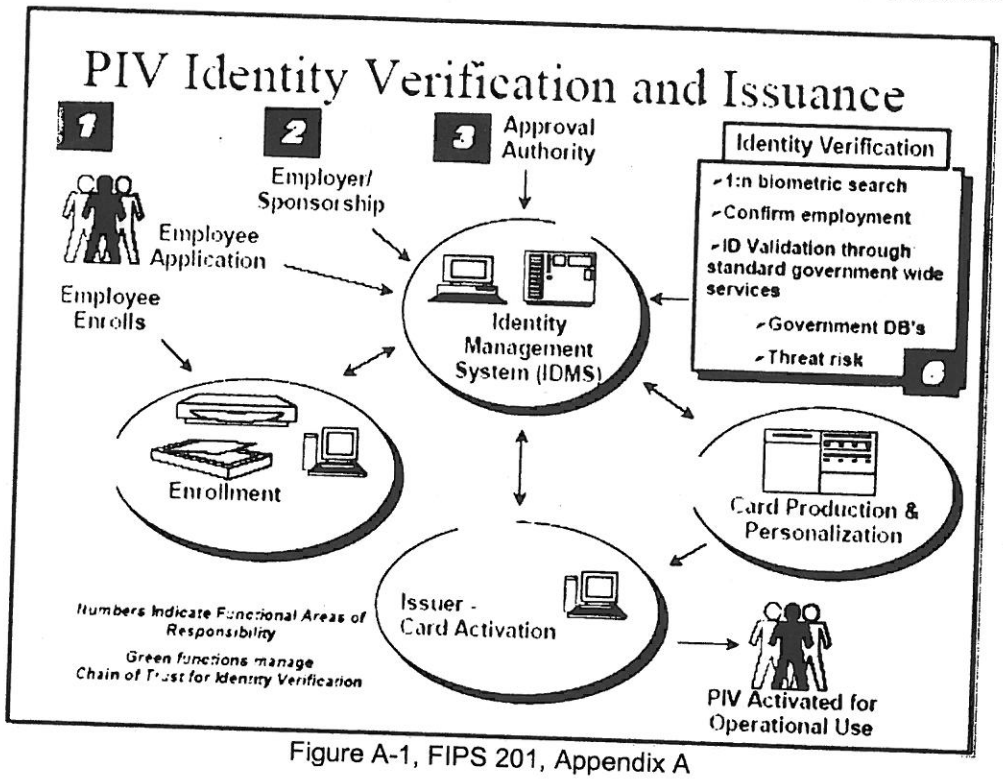

Figure A-1, FIPS 201, Appendix A

The following steps describe the procedures for the NASA Personal Identity Verification Card Issuance (PCI) of a PIV credential:

Step 1:
The Contractor's Corporate Security Officer (CSO), Program Manager (PM), or Facility Security Officer (FSO) submits a formal letter that provides a list of contract employees (applicant) names requesting access to the NASA Contracting Officer's Technical Representative (COTR). In the case of a foreign national applicant, approval through the NASA Foreign National Management System (NFNMS) must be obtained for the visit or assignment before any processing for a PIV credential can take place. Further, if the foreign national is not under a contract where a COTR has been officially designated, the foreign national will provide the information directly to their visit/assignment host, and the host sponsor will fulfill the duties of the COTR mentioned herein. In each case, the letter shall provide notification of the contract or foreign national employee's (hereafter the "applicant") full name (first, middle and last), social security number (SSN) or NASA Foreign National Management System Visitor Number if the foreign national does not have a SSN, and date of birth. If the contract employee has a current satisfactorily completed National Agency Check with Inquiries (NACI) or an equivalent or higher degree of background investigation, the letter shall indicate the type of investigation, the agency completing the investigation, and date the investigation was completed. Also, the letter must specify the risk/sensitivity level associated with the position in which each applicant will be working (NPR 1600.1, §4.5 is germane) Further, the letter shall also acknowledge that contract employees may be denied access to NASA information or information systems based on an unsatisfactory background investigation/adjudication. .

After reviewing the letter for completeness and concurring with the risk/sensitivity levels, the COTR/host must forward the letter to the Center Chief of Security (CCS). The CCS shall review the OPM databases (e.g., DCII, PIP, et al.), and take appropriate steps to validate the applicant's investigation status. Requirements for a NACI or other investigation shall be initiated only if necessary.

Applicants who do not currently possess the required level of background investigation shall be directed to the e-QIP web site to complete the necessary background investigation forms online. The CCS shall provide to the COTR/host information and instructions on how to access the e-QIP for each contract or foreign national employee requiring access

Step 2:
Upon acceptance of the letter/background information, the applicant will be advised that in order to complete the investigative process, he or she must appear in-person before the authorized PIV registrar and submit two forms of identity source documents in original form. The identity source documents must come from the list of acceptable documents included in Form I-9, Employment Eligibility Verification, one which must be a Federal[1] or State issued picture identification. Fingerprints will be taken at this time. The applicant must appear **no later than** the entry on duty date.

When the applicant appears, the registrar will electronically scan the submitted documents; any document that appears invalid will be rejected by the registrar. The registrar will capture electronically both a facial image and fingerprints of the applicant. The information submitted by the applicant will be used to create or update the applicant identity record in the Identity Management System (IDMS).

Step 3:
Upon the applicant's completion of the investigative document, the CCS reviews the information, and resolves discrepancies with the applicant as necessary. When the applicant has appeared in person and completed fingerprints, the package is electronically submitted to initiate the NACI. The CCS includes a request for feedback on the NAC portion of the NACI at the time the request is submitted.

Step 4:
Prior to authorizing physical access of a contractor employee to a federally-controlled facility or access to a Federal information system, the CCS will a National Crime Information Center (NCIC) with an Interstate Identification Index check is/has been performed. In the case of a foreign national, a national check of the Bureau of Immigration and Customs Enforcement (BICE) database will be performed for each applicant. If this process yields negative information, the CCS will immediately notify the COTR/host of the determination regarding access made by the CCS.

Step 5:
Upon receipt of the completed NAC, the CCS will update IDMS from the NAC portion of the NACI and indicate the result of the suitability determination. If an unsatisfactory suitability determination is rendered, the COTR will advise the contractor that the employee is being denied physical access to all federally-controlled facilities and Federal information systems.

Based on a favorable NAC and NCIC/III or BICE check, the CCS will authorize the issuance of a PIV federal credential in the Physical Access Control System (PACS) database. The CCS, based on information provided by the COTR/host, will determine what physical access the applicant should be granted once the PIV issues the credential.

Step 6:
Using the information provided by the applicant during his or her in-person appearance, the PIV card production facility creates and instantiates the approved PIV card for the applicant with an activation date commensurate with the applicant's start date.

Step 7:
The applicant proceeds to the credential issuance facility to begin processing for receipt of his/her federal credential.

The applicant provides to the credential issuing operator proof of identity with documentation that meets the requirements of FIPS 201 (DHS Employment Eligibility Verification (Form I-9) documents. These documents **must** be the same documents submitted for registration.

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[1] A non-PIV government identification badge, including the NASA Photo Identification Badge, MAY NOT BE USED for the original issuance of a PIV vetted credential

The credential issuing operator will verify that the facial image, and optionally reference finger print, matches the enrollment data used to produce the card. Upon verification of identity, the operator will locate the employee's record in the PACS database, and modify the record to indicate the PIV card has been issued. The applicant will select a PIN for use with his or her new PIV card. Although root data is inaccessible to the operator, certain fields (hair color, eye color, et al.) may be modified to more accurately record the employee's information.

The applicant proceeds to a kiosk or other workstation to complete activation of the PIV card using the initial PIN entered at card issuance.

ALTERNATIVE FOR APPLICANTS WHO DO NOT HAVE A COMPLETED AND ADJUDICATED NAC AT THE TIME OF ENTRANCE ON DUTY

Steps 1 through 4 shall be accomplished for all applicants in accordance with the process described above. If the applicant is unable to appear in person until the time of entry on duty, or does not, for any other reason, have a completed and adjudicated NAC portion of the NACI at the time of entrance on duty, the following interim procedures shall apply.

1. If the documents required to submit the NACI have not been completed prior to EOD, the applicant will be instructed to complete all remaining requirements for submission of the investigation request. This includes presentation of I-9 documents and completion of fingerprints, if not already accomplished. If the applicant fails to complete these activities as prescribed in NPR 1600.1 (Chapters 3 & 4), it may be considered as failure to meet the conditions required for physical access to a federally-controlled facility or access to a Federal information system, and result in denial of such access.

2. Based on favorable results of the NCIC, the applicant shall be issued a temporary NASA identification card for a period not-to-exceed six months. If at the end of the six month period the NAC results have not been returned, the agency will at that time make a determination if an additional extension will be granted for the temporary identification card.

Upon return of the completed NAC, the process will continue

Attachment J-19
Organizational
Conflict of Interest Avoidance Plan

(To be provided by Contractor)

Attachment J-20
Server Inventory and Complexity Matrix

Attachment J-20

Server Inventory and Complexity Matrix - Instructions

The productivity level from the previous performance period will serve as a baseline for the next performance period. It is expected that the productivity level will increase during the contract.

The "Complexity Values" tab in this workbook provides a Government estimate of the number of complexity units per device based on the description provided in the tab. A server complexity value of 1 is taken as a normal physical file server without any clustering, virtualization, etc.

The "Summary" tab in this workbook provides a count of the physical devices associated with each system, a count of the administrative value for each of the systems and totals for each of these computed values.

The "Devices" tab in this workbook contains a table of the devices required to be maintained and operated. The various columns in the "Devices" tab are defined below.

Column number 1 contains the "System Name". This is a value used by the Government to categorize the systems and is provided to show how the various systems are distributed. It is not used in computing the complexity.

Column number 2 provides the "Location" of the device. This is typically the "JSC Data Center" or the "JSC Data Center Lab" but there are other locations.

Column number 3 provides the "Device Function" of the device. The device function is the purpose the device serves at JSC.

Column number 4 provides the "Vendor" of the device. This is the manufacturer or reseller of the device.

Column number 5 provides the "Operating System" of the device. This is the version of the operating system along with the version.

Column number 6 provides the "Administrative Complexity" of the device. This represents the complexity of the effort of administering a particular device. The tab "Complexity Values" provides the Government provided definitions used in this workbook.

Column number 7 provides the "Principal Period of Performance (PPP)" of the device. This is the time the device is expected to be functional and providing the services expected from the device.
Column number 8 provides the "Minimum Availability" of the device. The minimum expected value for the percentage of time the device is functioning meeting its intended use, excluding facility and network outages, IT incident investigations, and maintenance service.
Column number 9 provides "Criticality." Criticality is defined in Attachment J-22, Performance Standards, WBS 5.0.
Column number 10 provides the "Time for Return to Service" of the device. This is the maximum amount of time for the system to be unavailable during an unscheduled outage. In the event of an unscheduled outage, it is expected that the system will be available within the time defined in this column. Column number 10 also provides the "Hardware Maximum Time to Repair" of the device. This is the amount of time before broken hardware is repaired. Typically, this will be the same as the time for return to service but, for clustered systems, the time to repair the hardware can be higher if a clustered system is available and the cluster is providing the expected service while the hardware is not functional.
The "Storage" tab provides a list of storage currently in the Consolidated Storage Management System.
The offeror is required to provide support for release of applications running on these platforms; i.e., the offeror is responsible for installation and interfacing with the software vendor when problems are reported and when upgrades are released.
The offeror is required to provide Tier 2:system administrator type support; e.g., how to use the compilers and performance tunning tools of the system
The offeror is required to provide local ID management as opposed to the overall center domain ID management.
A value of "0" for "Administrative Complexity" refers to a cluster which is covered by the devices which make up the system.

Attachment J-20

Server Inventory and Complexity Matrix - Complexity Values

Item Number	Administrator Complexity Units	Description
0	0.00	No function - used for spreadsheet computation
1	0.10	Basic Hardware - KVM switch, no monitoring, little to no patching, etc.
2	0.25	Switch devices - Fibre switch, Network switch, etc. Minor monitoring, occassional patching
3	0.50	Virtual Workstation
4	0.85	Virtual Server performing various services - DB, WEB, Client/Server, etc.
5	1.00	Basic unit file server that serves files, etc., Web Server,
6	1.50	Server which is a member of a cluster performing various services - DB, WEB, Client/Server, etc.

Attachment J-20

Server Inventory and Complexity Matrix - Summary

Subtask #	System	Physical Devices	Complexity Rating
1	Enc Comp Facility	3	3.10
2	CFO Systems	8	8.00
3	IRD IT Security systems	110	78.45
5	IRD Web	12	13.00
6	Patchlink	4	4.00
7	NetIQ	7	7.00
8	CAS	17	17.50
9	CSM	81	34.35
10	Reserved	0	0.00
11	Network-Misc	24	12.30
12	Engineering Systems	6	6.00
13	DDMS	46	42.20
14	Imagery Systems	31	30.50
15	COSS	13	13.50
18	PAO Systems	3	3.00
19	NAMS	13	13.15
20	EOC	21	18.75
21	LAB	0	24.60
22	CR945	2	2.00
23	WSTF	0	0.00
24	HRO Systems	28	25.75
	Totals	**429**	**357.15**

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1855 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1955 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server / DB Server	Dell PowerEdge 1955 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1955 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1955 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server	Dell PowerEdge 1955 Blade	Windows 2003	1	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server support	Dell PowerEdge Chassis	n/a	0.25	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server support	Dell PowerEdge Chassis	n/a	0.25	24/7	99.90%	4	4 Hr
HRO Systems	JSC Data Center	App Server support	Dell PowerEdge Chassis	n/a	0.25	24/7	99.90%	4	4 Hr
ECF systems	JSC Data Center	SGI Development Partition	SGI	RHEL-5	1.5	24/7	99.90%	4	4 Hr
ECF systems	JSC Data Center	SGI Production Partition	SGI	RHEL-5	1.5	24/7	99.90%	4	4 Hr
ECF systems	JSC Data Center	SGI Direct Attached Storage	SGI	N/A	0.1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	SQL Server	Dell	Windows 2000	1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	Secure print server for MSFC	Dell	Windows 2003	1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	IBOT server	Dell	Windows 2004	1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	IBOT server	Dell	Windows 2005	1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	CIRR server	Dell	Windows 2006	1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	CIRR server	Dell	Windows 2007	1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	Brio/Hyperion server	Dell	Windows 2008	1	24/7	99.90%	4	4 Hr
CFO Systems	JSC Data Center	Cold backup for Brio	Dell	Windows 2009	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Outer Firewall	Juniper	Vendor OS/Firmware	0	24/7	99.99%	4	2 Hr
JSC IT Security Systems	JSC Data Center	Firewall	Juniper	Vendor OS/Firmware	0.25	24/7	95.00%	1	24 Hr
JSC IT Security Systems	JSC Data Center	Firewall	Juniper	Vendor OS/Firmware	0.25	24/7	95.00%	1	24 Hr
JSC IT Security Systems	JSC Data Center	Inner Firewall	Juniper	Vendor OS/Firmware	0	24/7	99.99%	4	2 Hr
JSC IT Security Systems	JSC Data Center	Firewall	Juniper	Vendor OS/Firmware	0.25	24/7	95.00%	1	24 Hr
JSC IT Security Systems	JSC Data Center	Firewall	Juniper	Vendor OS/Firmware	0.25	24/7	95.00%	1	24 Hr
JSC IT Security Systems	JSC Data Center	ISG-2000	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	ISG-2000	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	DMZ SPIF 17 ISG-2000	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	DMZ SPIF 46 ISG-2000	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
JSC IT Security Systems	JSC Data Center	EPOC/ISAL SSG-550	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	EPOC/ISAL SSG-550	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Bluecoat	Bluecoat	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Bluecoat	Bluecoat	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Inner Firewall log server	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Outer Firewall log server	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	SurfControl Application Server-1	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	SurfControl Application Server-1	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	SurfControl Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	NetContext-CA	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	URL NID	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	URL CMS	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	ISS SiteProtector Application Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	INS Core ISS Network Sensor	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	ISO Core ISS Network Sensor	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	INS Building 1 and Wireless ISS Network	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	INS Building 2 and Poldev ISS Network	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	PSNa and SIP ISS Network Sensors	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	JSCMAN and PIP ISS Network Sensors	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	IDS Console 1	Dell	Windows XP 64 bit	0.85	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	IDS Console 2	Dell	Windows XP 64 bit	0.85	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	IDS Console 3	Dell	Windows XP 64 bit	0.85	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	IDP Management Server	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	INS Core IDP Network Sensor	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	INS Building IDP Network Sensor	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	ISO Core IDP Network Sensor	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	PIP/SIP IDP Network Sensor	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Wireless/PSNa/JSCMAN IDP Network Sens	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	IDS Console 4	Juniper	Windows XP 64 bit	0.85	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	IDS Console 5	Juniper	Windows XP 64 bit	0.85	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	INS Buildings TCP-Dump	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	ISO Core TCP-DUMP	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	SIP/PIP TCP-Dump	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	NetContext-NTR (to be replaced by IPView)	Dell	RHEL-3	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Blackbox (INSBldgs TCPDump)	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Goliad (ISOCore TCPDump)	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Boundary Services Log Repository server	Dell	RHEL-4	1.5	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid Storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Boundary Services Log Repository server ba	Dell	RHEL-4	1.5	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid Storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid Storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid Storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid Storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid Storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	JSC IT Security Forensics Repository server	Dell	RHEL-4	1.5	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid storage	Dell	N/A	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	IT Security Forensics console	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
JSC IT Security Systems	JSC Data Center	Security Data Warehouse	Dell	RHEL-3	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Security Data Warehouse Development env	Dell	RHEL-3	1.5	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Raid storage	Dell	N/A	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	NIDS switch (2948)	Cisco	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	NIDS switch (2948)	Cisco	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	46 NIDS switch (3550)	Cisco	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	46 NIDS switch (3550)	Cisco	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	R2S (2948)	Cisco	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Backend Network (2948)	Cisco	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Foundstone database	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Foundstone Db and Enterprise Manager, portal & scan engine	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Foundstone scan engine	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Foundstone scan engine	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Foundstone scan engine	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Foundstone scan engine	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	ISO Linux scanner	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	INS Linux scanner	Dell	RHEL-4	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic LX2000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic LX2000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic LX2000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic LX2000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic LX2000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic LX1000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic ST3000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Loglogic ST3000	Loglogic	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	PPTP (IAS)	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	PPTP (RRAS)	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	PPTP (RRAS) - Backup	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	R2S Primary	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	R2S Backup	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	R2S Replacement	Juniper	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	R2S Replacement	Juniper	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Use TBD	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Use TBD	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	PKI Laptop	Dell	Windows XP	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Profile Server cluster node 1	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	Profile Server cluster node 2	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	Firewall	Juniper	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	Firewall	Juniper	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	R2S Primary	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	R2S Backup	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	PPTP (IAS)	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	PPTP (RRAS)	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	Firewall Management server	Dell	RHEL-3	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	WSTF ISS SiteProtector Application Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	WSTF INS ISS Network	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	WSTF Data Center	WSTF Linux Scanner	Dell	Fedora 3	1	24/7	99.90%	4	4 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
JSC IT Security Systems	WSTF Data Center	Foundstone server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	NetContect-CA	Dell	RHEL-5	1	24/7	99.90%	4	4 Hr
JSC IT Security Systems	JSC Data Center	NetContext-NTR	Dell	RHEL-5	1	24/7	99.90%	4	4 Hr
CR 945 Systems	JSC Data Center	CR 945 Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
CR 945 Systems	JSC Data Center	CR 945 Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
IRD Web Systems	JSC Data Center	Web development for www6	Dell	Windows Server 2003	1.5	24/7	99.90%	4	8 Hr
IRD Web Systems	JSC Data Center	Web development for www7	Dell	Windows Server 2003	1.5	24/7	99.90%	4	8 Hr
IRD Web Systems	JSC Data Center	Application development for apps01-03	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
IRD Web Systems	JSC Data Center	Application staging for for apps01-04	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
IRD Web Systems	JSC Data Center	Production JSC survey website, adlib	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
IRD Web Systems	JSC Data Center	Production Urchin web crawler	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
IRD Web Systems	JSC Data Center	Production application web server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
IRD Web Systems	JSC Data Center	SQL Server development	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
IRD Web Systems	JSC Data Center	Genesis web server	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
IRD Web Systems	JSC Data Center	Sharepoint server 1	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
IRD Web Systems	JSC Data Center	Sharepoint server 2	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
IRD Web Systems	JSC Data Center	Sharepoint development server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Patchlink Systems	JSC Data Center	Patchlink Inventory Application	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
Patchlink Systems	JSC Data Center	Patchlink Inventory Application	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Patchlink Systems	JSC Data Center	Patchlink Inventory Application	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Patchlink Systems	JSC Data Center	Patchlink Inventory Application	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
NetIQ Systems	JSC Data Center	NetIQ Report server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
NetIQ Systems	JSC Data Center	NetIQ Management server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
NetIQ Systems	JSC Data Center	NetIQ Management server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
NetIQ Systems	JSC Data Center	**NetIQ SQL Cluster**	**N/A**	**N/A**	**0**	**24/7**	**99.99%**	**5**	**N/A**
NetIQ Systems	JSC Data Center	NetIQ SQL Cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
NetIQ Systems	JSC Data Center	NetIQ SQL Cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
NetIQ Systems	JSC Data Center	NetIQ Analysis Center server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	**Production Oracle cluster**	**N/A**	**N/A**	**0**	**24/7**	**99.99%**	**5**	**N/A**
CAS Systems	JSC Data Center	Production Oracle cluster server	Sun	Solaris 10	1.5	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	Production Oracle cluster server	Sun	Solaris 10	1.5	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	**Production SQL Server cluster**	**N/A**	**N/A**	**0**	**24/7**	**99.99%**	**5**	**N/A**
CAS Systems	JSC Data Center	Production SQL Server cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	Production SQL Server cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	**Development SQL Server Production**	**N/A**	**N/A**	**0**	**24/7**	**99.99%**	**5**	**N/A**
CAS Systems	JSC Data Center	Development SQL Server cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	8 Hr
CAS Systems	JSC Data Center	Development SQL Server cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	8 Hr
CAS Systems	JSC Data Center	**FlexLM triad**	**N/A**	**N/A**	**0**	**24/7**	**99.99%**	**5**	**N/A**
CAS Systems	JSC Data Center	FlexLM triad server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	FlexLM triad server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	FlexLM triad server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
CAS Systems	JSC Data Center	**Web Cluster**	**N/A**	**N/A**	**0**	**24/7**	**99.99%**	**5**	**N/A**
CAS Systems	JSC Data Center	Web Cluster server	Sun	Solaris 10	1.5	24/7	99.90%	4	8 Hr
CAS Systems	JSC Data Center	Web Cluster server	Sun	Solaris 10	1.5	24/7	99.90%	4	8 Hr
CAS Systems	JSC Data Center	Web development server	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
CSM Systems	JSC Data Center	**Windows file share cluster**	**N/A**	**N/A**	**0**	**24/7**	**99.99%**	**5**	**N/A**
CSM Systems	JSC Data Center	Windows file share cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	24 Hr
CSM Systems	JSC Data Center	Windows file share cluster server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	24 Hr
CSM Systems	JSC Data Center	Netbackup Media server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
CSM Systems	JSC Data Center	Netbackup Media server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Netbackup Master Backup server	Dell	RHEL-3	1.5	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Netbackup Master Backup server	Dell	RHEL-3	1.5	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	CISAN management server (CC Storage)	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	CISAN management server (VBR)	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Storage Migrator cluster server	Sun	Solaris 9	1.5	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Storage Migrator cluster server	Sun	Solaris 9	1.5	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NFS file share cluster server	Sun	Solaris 10	1.5	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NFS file share cluster server	Sun	Solaris 10	1.5	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Controller	EMC	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Controller	EMC	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Controller	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Controller	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Controller	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Raid Storage	EMC	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	NetApp FAS3040 NAS Storage Array	NetApp	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 48000 4 GB Director Fiber	Silkworm	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 48000 4 GB Director Fiber	Silkworm	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 48000 4 GB Director Fiber	Silkworm	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 48000 4 GB Director Fiber	Silkworm	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 48000 4 GB Director Fiber	Silkworm	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 48000 4 GB Director Fiber	Silkworm	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 48000 4 GB Director Fiber	Silkworm	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 3200 2GB Fiber Switches	Silkworm	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Silkworm 3200 2GB Fiber Switches	Silkworm	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Controller	Copan	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Controller	Copan	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	VTL Shelf	Copan	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	VTL Shelf	Copan	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	VTL Shelf	Copan	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	VTL Shelf	Copan	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	VTL Shelf	Copan	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	VTL Shelf	Copan	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	SAN Storage	Copan	Vendor OS/Firmware	0.1	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	SAN Storage	Copan	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	SAN Storage	Copan	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
CSM Systems	JSC Data Center	Tape Library	Sun	Vendor OS/Firmware	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Domain Controller	Dell	Windows Server 2003	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Domain Controller	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Solarwinds	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Solarwinds	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Solarwinds	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Solarwinds	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	DELL PowerEdge 2650RH Linux ZOWE	Dell	RHEL 4	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Lift - Dell PowerEdge 2650RH Linux	Dell	RH 7.3	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	BB4 #2523284 Linux	Dell	RHEL 4	1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	NetOptics Tap 8 port	NetOptics	N/A	0.1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	NetOptics Span Tap	NetOptics	N/A	0.1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	NetOptics Span Tap	NetOptics	N/A	0.1	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Niksun NetDetecto r2U Appliance	Niksun	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Niksun NetDetecto r2U Appliance	Niksun	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	IPAQ Pocket PC Wireless Network Sniffer NAI Corp #1650925	Compaq	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Gigamon GigaVUE #2522394	Gigamon	N/A	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Gigamon GigaVUE #2522393	Gigamon	N/A	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Gigamon GigaVUE #2523325	Gigamon	N/A	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Gigamon GigaVUE #2544620	Gigamon	N/A	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Gigamon GigaVUE #2523325	Gigamon	N/A	0.25	24/7	99.90%	4	4 Hr

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Network-misc Systems	JSC Data Center	Fluke OptiView #2148307	Fluke	N/A	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Fluke Optiview #2148306	Fluke	N/A	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Fluke Optiview #2224605	Fluke	N/A	0.25	24/7	99.90%	4	4 Hr
Network-misc Systems	JSC Data Center	Route Explorer	Packet Design	N/A	0.25	24/7	99.90%	4	4 Hr
Engineering systems	JSC Data Center	DOORS server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Engineering systems	JSC Data Center	Project data server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Engineering systems	JSC Data Center	Project production server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Engineering systems	JSC Data Center	Project development server	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
Engineering systems	JSC Data Center	Lunar Lander Production web server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Engineering systems	JSC Data Center	Lunar Lander Development web server	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	Switch	CISCO	Vendor OS/ Firmware	0.1	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	Cold Standby Switch	CISCO	Vendor OS/ Firmware	0.1	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	Local Director	CISCO	Vendor OS/ Firmware	0.25	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	Cold Standby Local Director	CISCO	Vendor OS/ Firmware	0.25	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	Production load balanacer	CISCO	Vendor OS/ Firmware	0.25	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	Develop/Int/Stag load balancer	CISCO	Vendor OS/ Firmware	0.25	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	Rware development	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	Rware Production cluster server	Dell	Windows Server 2003	1.5	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	Rware Production cluster server	Dell	Windows Server 2003	1.5	24/7	99.99%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS Code Integration (Windows)	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS Code Integration (Unix)	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS Federation	Sun	Solaris 9	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 6.2 Integration Master	Sun	Solaris 8	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 6.2 Integration Slave	Sun	Solaris 8	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	PVCS RCS Server	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	Test Director	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 6.2 Staging Master	Sun	Solaris 8	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 6.2 Staging Slave	Sun	Solaris 8	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 8 Staging Master	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 8 Staging Slave	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 8 Staging Slave	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 6.2 Production Master	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 6.2 Production Slave	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 6.2 Production Slave	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Production Master	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Production Slave	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Production Slave	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Production Slave	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Production Slave	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Production Slave	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Training Master	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Training Slave	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Training Slave	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS Windchill 6.2 Production Addon	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	Retain but not in use	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	Retain but not in use	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	DDMS 8 Integration Master	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 8 Integration Slave	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
DDMS Systems	JSC Data Center	DDMS 8 Alpha Master	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 8 Alpha Slave	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	DDMS 8 Alpha Slave	Sun	Solaris 10	1	24/7	99.90%	4	8 Hr
DDMS Systems	JSC Data Center	MCAD worker server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	MCAD worker server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
DDMS Systems	JSC Data Center	MCAD worker server, ISS-SAN Vault	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	IPTV Media Control Server for AQF	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	IPTV Video On Demand Server for AQF	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	STIC Web Server	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	STIC Web Server	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	JSC Informed Filler Forms Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	DIL Mission Photography File Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	DIL Workgroup File/FTP Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	DIL Workgroup File/FTP Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	will be replaced by is4arc	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	DIL Quality Control Workgroup File Server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Repurposed from DC to vid02 to mcs	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Clustered VAMS Video/FTP/File Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Clustered VAMS Video/FTP/File Server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Printing/Duplication File Server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Graphics File Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Graphics/Data Conversion File Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Video Archive Workstation	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Video Archive Appliance - NT4 Server	Dell	Vendor OS/ Firmware	0.25	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Video Archive Appliance - NT4 Server	Dell	Vendor OS/ Firmware	0.25	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Video CODEC Conversion Workstation	Dell	Windows Server 2003	0.25	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Graphics Plot Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Graphics Plot Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	IPTV Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	VAMS Web Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	IS4 NFS Gateway to FS02	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Server Obsolesence - Consolidate gra04	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Server Obsolesence for vi03	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	Server Obsolesence for vid04	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	IPTV Server to replace old vserv1 (JSC	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
Imagery Systems	JSC Data Center	IPTV Server (External)	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	Maximo/Actuate Report Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	Mobile Maximo Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	Web and Print Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	File Share Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	SQL Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	Web Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	Maximo Application Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	SQL Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	COSS Backup Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	Sonny Carter HVAC Monitoring Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	Maximo VM Test Servers	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
COSS Systems	JSC Data Center	B222 Boiler Monitoring Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
COSS Systems	JSC Data Center	EOC Hurricane Assessment Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
PAO Systems	JSC Data Center	Web development	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
PAO Systems	JSC Data Center	Web development	Sun	Solaris 8	1	24/7	99.90%	4	4 Hr
PAO Systems	JSC Data Center	Portal Development (PAO)	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	VMWARE Server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	VMWARE Server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	VMWARE Server	Dell	Windows Server 2003	1.5	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	Virtual XP development workstation	N/A	Windows XP	0.85	24/7	99.90%	4	4 Hr
NAMS Systems	JSC Data Center	NAMS Solaris server	Sun	Solaris 10	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Integraph Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Integraph Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Exchange Mail Server/ Backup Server/	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Custom Applications	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Firewall	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Active Directory Domain Controller	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Active Directory Domain Controller	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	NTP Server	Galleon	Vendor OS/Firmware	0.25	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	AM Transmitter Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	JSC SyREN Notification Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	JSC SyREN Notification Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	WSTF SyREN Notification Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	WSTF SyREN Notification Database	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Active Directory Domain Controller	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Active Directory Domain Controller	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Integraph Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	4 Hr
EOC Systems	JSC Data Center	Integraph Database Server	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
EOC Systems	JSC Data Center	Custom Applications	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
EOC Systems	JSC Data Center	Exchange Mail Server/ Backup Server/	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
EOC Systems	JSC Data Center	Firewall	Juniper	Vendor OS/Firmware	0.25	24/7	99.90%	4	8 Hr
EOC Systems	JSC Data Center	Test Server For LENEL Application	Dell	Windows Server 2003	1	24/7	99.90%	4	8 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	CentOS	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Sun	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	Windows 2000 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Loan Pool	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Compaq	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Google	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Google	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Google	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Google	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Google	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Google	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Google	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2000 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows Vista	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris 10	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris 10	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Apple	Mac OSX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	HP	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	Linux	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Dell	Linux	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Development (no stop date)	Sun	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	JSC NSM Firewall Manager/D Saber	HP	CentOS	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	DLT Eraser	Dell	Windows 2000 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Avaialble for use	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Network Testing	Cisco	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Network Testing	Dell	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Network Testing	Dell	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Network Testing	Dell	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Network Testing	Dell	Not Specified	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	SE2 DDMS test Workstations	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	Decomissioned from CSS, now LI# 023	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	IBM	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Cisco	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Google	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Niksun	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Varies depending on use	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris 10	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Cisco	Windows 2000 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows 2003 Server	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticality	Time for Return to Service (include hardware repair)
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	HP	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Windows XP	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 1	JSC Data Center	VMWare - AD Hoc (hard start/stop date)	N/A	Hosted on VMWARE ESX	0	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	DMZ-46 Firewall Lab ISG-2000	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	DMZ-17 Firewall Lab ISG-2000	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Inner 46	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Inner 17	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Outer 46	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Outer 17	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	(NEMS 2148403)	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	(NEMS 2155575)	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	(NEMS 2148351)	Juniper	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab device	Guest Device	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab device	Guest Device	Varies depending on use	0.1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab Domain Controller	Dell	Varies depending on use	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab Domain Controller	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab Server	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab Server	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lan SQL 2005 Server	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Softgrid Server	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Softgrid Server	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab Server	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab device	Dell	Varies depending on use	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab device	Brocade	Varies depending on use	0.25	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab device	Brocade	Varies depending on use	0.25	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab support	Guest Device	Varies depending on use	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab support	Guest Device	Varies depending on use	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab support	Guest Device	Varies depending on use	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab support	Guest Device	Varies depending on use	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab Operations (no stop date)	Dell	Windows 2000 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	AD Hoc (hard start/stop date)	Dell	Varies depending on use	1	6am to 6pm M-F	99.4%	3	24 Hr

System Name	Location	Device Function	Vendor	Operating System	Administrative Complexity	Principal Period Of Performance (PPP)	Minimum Availability	Criticallty	Time for Return to Service (include hardware repair)
See Note 2	JSC Data Center	AD Hoc (hard start/stop date)	Sun	Solaris	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	AD Hoc (hard start/stop date)	Dell	ESX	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Development (no stop date)	Dell	ESX	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Development (no stop date)	Dell	ESX	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Development (no stop date)	Dell	ESX	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Development (no stop date)	Dell	ESX	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Lab Operations (no stop date)	Dell	Windows 2003 Server	1	6am to 6pm M-F	99.4%	3	24 Hr
See Note 2	JSC Data Center	Development (no stop date)	Dell	Windows XP	1	6am to 6pm M-F	99.4%	3	24 Hr

Note 1: Lab Systems - Wipe/Load OS with latest patches; hand off to user; and Back up (if required) - add .1 complexity for all covered under note 1

Note 2: Lab Systems - Full System Administration (OS Only) and back up (if required)

Attachment J-20	
Server Inventory and Complexity Matrix - Storage	
Storage is in terabytes	
EMC	
CX500	29
CX3-40	54
CX3-80	127
Total	210
NetApp	
FAS3040	68
Total	278

Attachment J – 21
Government Specified Applications

Applications:

Microsoft Sharepoint
Electronic Document Management System (EDMS)
Design and Data Management System (DDMS)
Entrust
Customer Service System (CSS)
Network Connect
PPTP
R2S
IEMP
e-Gov

Attachment J-22
Performance Standards

WBS 3.0 Performance Standards

- The Contractor shall adhere to NASA and JSC policies applicable to performing work under this contract.
- No reportable OSHA Violations.
- The contractor's OSHA recordable rate, lost workday case rate and severity rate, as defined in Safety and Health Plan, must be below the North American Industrial Classification System (NAICS) average.
- All activities, products, and services shall be developed and performed in a manner consistent with the Center's environmental management system elements.
- No discrepancies greater than +/- $10,000.00 in the reported financial data (DRD-05).
- The Contractor shall provide a Preventive Maintenance Plan and Obsolescence Plan (DRD-11, Preventive Maintenance and Operational Readiness Documentation).
- The Contractor shall provide an Information Technology (IT) Security Management Program Plan per DRD-32.
- The Contractor shall provide CPIC documentation and Section 508 documentation per DRD-03.
- The Contractor shall provide DRD's and Technical Reports on time.
- 100% of employees possess current required technical skills, qualifications, certifications, and training.
- Project estimate timeliness - Rough Order of Magnitude estimates (ROMs) shall be completed within 2 working days of receipt.
- Project estimate timeliness - The contractor shall have 15 calendar days from receipt of request to complete a task plan (detailed proposal).
- Project estimate accuracy - Project plans shall be completed according to NPR 7120.7 (e.g., WBS 5.0 and 6.0).
- Accurate and timely project documentation provided for each engineering and installation project as required by NPR 7120.7.
- The Contractor shall comply with Government-specified requirements for property management.

WBS 3.1 Safety and Health Performance Standards

- The Contractor shall implement a safety and health program, adhere to the approved safety and health plan (DRD-9), manage safety incidents and injuries, and comply with JSC safety and health policies and procedures (See J-6, Applicable Documents). This metric shall measure the Contractor's safety and health performance with emphasis on the following:

    1. Safety incidents and injuries in conjunction with reported monthly statistical information on the Contractor's Safety and Health Program (JSC Form 288);

2. Substantial leadership initiatives taken by management in injury prevention and property damage avoidance and employee awareness programs;
3. Proactive programs with measurable impact on injury/mishap reduction; and
4. Employee input and management approaches to corrective action and safety and health compliance.

To receive an "Excellent" rating, the Contractor shall meet **all four** of the following conditions:

1. Have a Lost Workday Case Rate (LWD) less than 25% of the industry average; a Days Away Plus Restricted Duty Plus Job Transfer (DART) and OSHA Recordable (REC) Rates less than 50% of the industry average; no property damage; and near zero instances of non-compliance with no compliance issues of a serious nature.
2. Demonstrate leadership through implementation of or participation in multiple activities such as special safety/injury analyses; safety and health training/seminars; ad-hoc inspection activities; hosting employee roundtables; and the JSC Safety Action Team (JSAT).
3. In accordance with the approved Safety and Health Plan (DRD-9), implement innovative safety and health programs that produce a measurable rate of improvement in LWD, DART, REC, property damage, and compliance that meet goals as stated in DRD-9.
4. In accordance with the approved Safety and Health Plan (DRD-9), implement innovative employee input systems and management approaches that produce a measurable rate of improvement in employee participation that exceed goals as stated in DRD-9.

To receive a "Good" rating, the Contractor shall meet **all four** of the following conditions:

1. Have a Lost Workday Case Rate (LWD) less than 50% of the industry average; a Days Away Plus Restricted Duty Plus Job Transfer (DART) and OSHA Recordable (REC) Rates less than 100% of the industry average; property damage not to exceed $250,000; or isolated instances of non-compliance in one or more areas.
2. Demonstrate leadership through implementation of or participation in one activity such as special safety/injury analyses; safety and health training/seminars; ad-hoc inspection activities; hosting employee roundtables; and the JSC Safety Action Team (JSAT).
3. In accordance with the approved Safety and Health Plan (DRD-9), implement innovative safety and health programs that produce a measurable rate of improvement in one of the following categories: LWD, DART, REC, property damage, and compliance that meet goals as stated in DRD-9.
4. In accordance with the approved Safety and Health Plan (DRD-9), implement innovative employee input systems and management approaches that produce a measurable rate of improvement in employee participation that meet goals as stated in DRD-9.

The Contractor shall be rated "Poor" if they fall below the stated requirements for any single item in "Good." However, the Contractor may improve their rating to "Good" if they attain an "Excellent" level of performance in at least 2 of the remaining 3 categories.

WBS 4.0 Performance Standards

- The Contractor shall operate a Customer Support Center according to WBS 4.0 based on industry best practices that provides users access to information about, assistance with, or distribution of IRD products and services.

- Voice mail response time within 2 business hours.

- Email response time within 4 business hours of receipt of the email.

- Service Request (SR) metrics:

    - Make initial contact same day, provided ODIN met delivery of ODIN review of SR approved spreadsheet at or before 3 p.m.
    - If no response from Customer, a second attempt to contact will be made within 2 business days.
    - If the second attempt does not have a resolution, a third and final attempt shall be made no later than 2 business days after the second attempt. CSA shall be contacted and made aware of the situation.
    - Document time to respond to SR requests.

- The Contractor shall answer calls in less than 30 seconds. Abandoned calls shall be less than 5%. If this performance measure is not supported by the JSC phone system, the contractor shall report call information as agreed upon by the CO and the Contractor. The percent of Performance Incentive Fee set aside for this area shall then be redistributed equally to the other 4.0 areas.

  If allowed by the JSC phone system, the Contractor shall report call volume and abandoned calls.

- Instructor Evaluation should meet or exceed the following attributes:
    - -presentation skills
    - -knowledge of the subject
    - -projection of organizational values
    - -adherence to instructional guidelines
    - -quality of training materials
    - -lesson met stated objectives

WBS 5.0 Performance Standards

- The Contractor shall provide information technology management for projects according to schedule.

- The Contractor shall provide information technology management for implementation of new projects such that requirement specifications are met with no discrepancy. Discrepancies are inconsistencies between requirements and delivered products and are submitted to the Government via a Discrepancy Report (DR).

- The Contractor shall disposition change requests and discrepancy reports for all systems (J-10, J-11, and J-20) per tailored process of 7120.7 for M&O.

- The Contractor shall provide maintenance and operations of new and existing systems in a timely manner (meet those milestones as defined in the Preventive Maintenance Plan,

Obsolescence Plan and other project plans provided to the Government) per tailored process of 7120.7 for M&O within phase E.

- The Contractor shall perform configuration changes (e.g., signature files, firewall rules, proxy database, etc.) across IT security systems.
- The Contractor shall implement change requests for all systems as directed by the TMR.
- No instance of a missed preventive maintenance activity.
- The contractor shall ensure that any hardware component that remains after end-of-life has a maintenance agreement or time and materials contract in place and that any software component has a valid license or support agreement. The hardware and software listings are provided in Attachments J-5, J-10 and J-11.
- The Contractor shall maintain a valid license or support agreement for all software components.
- The Contractor shall maintain a server to administrator ratio as negotiated with the Government and awarded in the task orders.
- The contractor shall maintain availability of the systems, software, hardware and other components listed in Attachment J-10 – Systems Table and Attachment J-20 - Server Inventory and Complexity Matrix. A criticality value is provided for the items in the attachments. The table provided below defines the criteria for the ratings to be received based on the number of availability metrics met. .

Examples:

All availability measurements are met with the exception of 4 criticality 1 systems. The score would be valued as an excellent.

Two criticality 3 measurements are missed as well as 3, criticality 1. The score would be valued as good.

Four criticality 3 measurements are missed. The score would then be valued as poor.

	Poor	Fair	Good	Very Good	Excellent
Criticality 5	>=1	0	0	0	0
Criticality 4	>2	<=2	0	0	0
Criticality 3	>3	<= 3	<= 3	0	0
Criticality 2	>4	<= 4	<= 4	<= 4	0
Criticality 1	>5	<= 5	<= 5	<= 5	<= 5

WBS 5.2 Performance Standards

- The Contractor shall provide 100% meeting coverage.
- The Contractor shall post meeting agendas at least 2 working days prior to scheduled meeting 100% of the time.

- The Contractor shall post meeting actions within two working days after meeting 100% of the time.

- The Contractor shall make meeting minutes available within 2 working days after the meeting for NASA approval 100% of the time.

- The Contractor shall posting of meeting minutes within two working days after obtaining NASA approval 100% of the time.

- The Contractor shall create LIFT (or equivalent system) accounts within 24 hours (excluding weekend hours) of receiving request 100% of the time.

- The Contractor shall meet customer requirements for meeting minutes for quality 100% of the time. A template of the minutes will be provided by the customer prior to or at the beginning of the evaluation period.

- The Contractor shall meet 100% on-time delivery of products per the due dates specified in referenced CPIC documentation.

- The Contractor shall meet 100% of CPIC products delivered by the Contractor meet the requirements as specified in NASA documentation.

WBS 5.3 Performance Standards

- The Contractor shall complete 100% of EA products on-time per customer-required deadlines.

- The Contractor shall satisfy NPR 2830.1, NASA Enterprise Architecture Procedures, in regard to customer functional, technical and performance requirements for all EA products.

- The Contractor shall demonstrate a technical understanding of all EA artifacts under their assessment.

WBS 5.4 Performance Standards

- The Contractor shall maintain 100% availability for hardware and software maintained in this area. Availability: Use the definition found in JSC 29638 – Server Operations Management Plan (SOMP).

WBS 5.6 Performance Standards

- The Contractor shall complete 100% IT Security requests per required customer deadlines.

- The Contractor shall have zero negative feedback received from customers of IT Security products provided by the Contractor.

WBS 6.0 Performance Standards

- The contractor shall complete major events and requests per customer required deadline and requirements as described in the SOW, task orders, project plans and other work authorization documents. The contractor shall meet spaceflight operations timelines and requirements as described in the SOW, task orders, project plans and other work

authorization documents. ("Major" events or requests are defined as those that if missed negatively impact NASA's/JSC's mission - e.g. testing event, EVA downlink.)

- The Contractor shall complete major events and requests per customer required deadline 100% of the time.
- The Contractor shall meet spaceflight operations timelines 100% of the time.
- The Contractor shall not negatively impact NASA's/JSC's mission through major events or requests - e.g. testing event, EVA downlink.
- The Contractor shall complete minor events and requests per customer required deadline 100% of the time.
- The Contractor shall meet spaceflight operations timelines 100% of the time.
- The Contractor shall meet 100% of the functional, technical and performance requirements of WBS 6.0 100% of the time including:
    - No defects.
    - Compliant with NASA, Federal, SMPTE, EIA, ITU, ISO Standards and ICC Color Management standard/industry best practices and no defects in the deliverables.
    - Compliant with ICC Color Management standard/industry best practices and no defects in the deliverables.
    - Items needed for meetings or provided via the loan pool are delivered or are available for pickup by the customer as scheduled 100% of the time.
- The Contractor shall make audiovisual and loan pool equipment inventory available and 100% functional when required.

WBS 7.0 Performance Standards

- The contractor shall meet 100% of schedules and customer required deadlines in WBS 7.0.
- The contractor shall meet 100% of requirements within the Information Management WBS Area.
- The Contractor shall operate the libraries, repositories and service desks for WBS 7.0 as defined in the task order.

WBS 8.1 Performance Standards

- The Contractor shall meet quality and timeliness standards as defined by the Government prior to work being measured for all products and services.
- The Contractor shall provide 100% error-free live television (video and audio) program control.
- The Contractor shall provide 100% technically accurate mission commentary.

- The Contractor shall provide 100% error-free television documentation (mission television schedules).

- The Contractor shall meet all deadlines as assigned by the TMR.

- The Contractor shall format all products and broadcasts and distribute through all other media formats designated by the TMR; for example, reformatting standard video products for use on the Internet/Web and social media sites such as YouTube or for use as part of exhibits.

- The Contractor shall provide 508 compliant in all formats for applicable products.

- The Contractor shall maintain all television and support equipment in operational status at 99.5% reliability rate.

WBS 8.2.1 – 8.2.4 Performance Standards

- The Contractor shall deliver 100% of products and services as mutually agreed-upon in project plans.

- The Contractor shall provide products and services without error or defect.

Attachment J-23
IT Security Plan, Risk Assessment, and FIPS 199 Assessment

(To be provided by Contractor)

Attachment J-24
Emergency Plan

(To be provided by Contractor)

Attachment J-25
List of Installation Provided Facilities and Services

The following information lists the Installation Provided Facilities and Services provided under this contract:

1. Approximate ODIN seats (computer seat and phone seat): 340

2. Approximate office space as detailed in the chart below. Location of office space is indicated, where possible, by building number / room number. Average office size ranges between 45-65 square feet. No other office space will be allocated to this contract at this time.

1 WSTF	2/123	37/201A	45/321	46/144A	8/125AB	8/218	8/281
1/106A	2/159	423/106	45/325	46/144B	8/125BA	8/218	8/281
1/106E	2/160	423/106	45/342	46/144B	8/172A	8/224	8/281
1/952A	2/160	423/106	45/347	46/144B	8/172A	8/224	8/284
1/968	2/166A	423/106	45/348	46/144B	8/174	8/225	8/286
1/968	2/203	423/106	45/348D	46/144D	8/174	8/225	8/286
10/250	2/205	423/106	45/448E	46/144D	8/176	8/225	8/292
12/Cubicle	2/206	423/106	46/104	46/144D	8/181A	8/225	8/293
12/Cubicle	2/212	423/107	46/104	46/144D	8/181C	8/225	8/294
12/Cubicle	2/TEAGUE	424/100	46/104	46/144D	8/181C	8/225B	8/294
12/Cubicle	226/116	424/100	46/104	46/144D	8/181C	8/251	8/LOBBY
12/Cubicle	227/1	424/102	46/104	46/154	8/184	8/251	8/LOBBY
12/Cubicle	227/1	424/102	46/104	46/154	8/184	8/251	9N/2170
12/Cubicle	227/1	424/102	46/104	46/154	8/184	8/251	9N/2170
12/105D	227/1	424/102	46/104	46/154	8/185	8/251A	
12/105E	227/1	424/102	46/110A	46/154	8/187A	8/254	
12/221	227/1	424/102	46/110A	46/154	8/193	8/254A	
12/222	227/1	45/100A	46/110A	46/154	8/208	8/261A	
12/236a	227/1	45/100A	46/110A	46/154	8/208	8/261B	
12/269	227/1	45/100A	46/110A	46/154A	8/208	8/261B	
12/280	227/1	45/100B	46/110A	46/204	8/208	8/261C	
12/289	227/1	45/100B	46/110A	46/204	8/208	8/261C	
12/298	227/2	45/100BA	46/120B	46/204	8/211R	8/261C	
12/298	227/2	45/100BA	46/120B	46/210A	8/211R	8/261D	
12/298	227/29	45/100BA	46/120B	4S/1718	8/211R	8/273	
12/298	227/30	45/203	46/120B	4S/1718	8/211R	8/273	
12/298	227/30	45/203	46/120B	4S/1718	8/212	8/273B	
12/298	227/30	45/222	46/136	4S/4215A	8/212	8/273B	
12/298	227/32	45/222	46/136	4S/4215B	8/215	8/273B	
17/2026	227/5	45/222	46/136	8/103R	8/215	8/280	
2/102	227/DOOR	45/222	46/136	8/110	8/215	8/280	
2/102	2N/149	45/222	46/136	8/121A	8/215	8/280	
2/102	2N/163	45/222	46/136	8/121C	8/215A	8/281	
2/102	2N/166	45/222	46/136A	8/121D	8/215A	8/281	
2/106	2N/166A	45/222	46/136A	8/121D	8/215B	8/281	
2/106	2N/172B	45/251	46/136A	8/125A	8/215B	8/281	
2/106	30A/3069B	45/256	46/144	8/125AB	8/215B	8/281	
2/109	30L/3100	45/306	46/144	8/125AB	8/215B	8/281	
2/112	37/201A	45/308	46/144	8/125AB	8/215BA	8/281	
2/123	37/201A	45/321	46/144A	8/125AB	8/215BA	8/281	

Attachment J-26
List of
Government Furnished Equipment

Serial	Model	Manufacturer	Description	Cost
711089	G9742	GRIZZLY	BANDSAW, METAL CUTTING	$525.84
N/A	CT4W-HB	CHECKERS	CART	$831.70
N/A	GEMINI	MAGLINER	CART	$393.05
0207609075	DOA-P707-AA	SCIENCEWARE	DESCICCATOR	$269.56
13341	G7948	GRIZZLY INDUSTRIAL	DRILL PRESS, FLOOR	$624.21
947831	DC720	DEWALT	DRILL, CORDLESS	$232.64
828899	DC720	DEWALT	DRILL, CORDLESS	$232.64
928963	DC728	DEWALT	DRILL, CORDLESS	$177.45
759634	DC720	DEWALT	DRILL, CORDLESS POWER	$232.64
17A011060	NUVI760	GARMIN	GPS	$297.43
35-06578	VIP3000	BARKER	JACK, POWER	$330.38
2886510175	L-3022-24PT	LOUISVILLE	LADDER	$211.40
NONE	H1043	ULINE	PALLET JACK	$317.63
113856	DC759	DEWALT	POWER DRILL, 18 VOLT, 1/2" CHUCK	$211.40
589001735	11236VS	RYOBI	ROTOR HAMMER	$338.87
10482A	RD1101	MAKITA	ROUTER, D-HANDLE	$230.15
0603YB	G10142	GRIZZLY INDUSTRIAL	SANDER, COMBINATION W/STAND	$470.17
7268358	CB53230	SAWSTOP	SAW, CABINET, 10"	$3,348.98
V041140871	MS1290LZ	RIGID POWER TOOLS	SAW, MITRE	$597.45
986704	DC385	DEWALT	SAWZALL	$211.40
PP41150DF	750X	GRIZZLY	SHARPENER, DRILL BIT	$138.05
N/A	WOLVERINE	PITBULL	TIRE BOOT	$467.39
BB0645-97132	R2400	RIGID	TRIMMER, LAMINATE	$106.20
042007	GS1700	WARM WORKS	WINCH	$150.26
13105	TR300RTSA	RTS	WIRELESS, BELTPACKS	$600.20
13108	TR300RTSA	RTS	WIRELESS, BELTPACKS	$600.20
13113	TR300RTSB	RTS	WIRELESS, BELTPACKS	$600.20
13155	BTR-300B	RTS	WIRELESS, BELTPACKS	$600.20
13104	TR300RTSA	RTS	WIRELESS,BELTPACKS	$600.20
13109	TR300RTSA	RTS	WIRELESS,BELTPACKS	$600.20

Attachment J-27
List of
Government Furnished Information

Government Furnished Information

Name	Vendor	Version #	# of copies	Date license Expires	Maintenance Agreement
Acrobat Professional	Adobe Systems	9	10	N/A	N/A
Acrobat Standard	Adobe Systems	6	7	N/A	N/A
Adobe full version	Adobe Systems	9	1	In work	N/A
AMX Nelinx Studio II Suite	AMX	V 2.0	8	N/A	N/A
AMX TPDesign 4	AMX	V 4.0	4	N/A	N/A
Analysis Center	Netiq	2.6	5	NA	Annually
AppManager Chart Console	NetIQ	7.0.1	1	N/A	N/A
Arcsoft Photo Studio	Arcsoft	2007	1	N/A	N/A
AutoDesk AutoCad	AutoDisk	V B.51.0	7	Annually in September	Group # 343-60452630
Autodesk Design Review	Autodesk	9.1.0.127	1	N/A	N/A
Beyond Compare	Scooter Software	2.5.3	15	N/A	N/A
Bulk Rename Utility		2.7	1	NA	N/A
Canvas	ACD	10	6	N/A	N/A
Captivate	Adobe	2	1	N/A	N/A
Chart Console	NetIQ	7.0.1	20	NA	Yes
Clearone AP	Clearone	N/A	2	N/A	N/A
Clearone Converage	Clearone	N/A	2	N/A	N/A
Clearone XAP Gware	Clearone	N/A	2	N/A	N/A
Cmore Programming Software	Automation Direct	1.3	1	NA	N/A
ColdFusion Builder	Adobe Systems	1.0.0		N/A	N/A
Creative Suite 4 Standard	Adobe Systems	CS4	10	N/A	ODIN
Crystal Reports	Business Objects	11.5.10.1263	3	N/A	N/A
CS3 Design Studio	Adobe Systems	CS3 (UP to CS4)	1	NA	N/A
CS3 Web Premium	Adobe Systems	CS3 (UP to CS4)	1	NA	N/A
dBpoweramp Music Converter	http://www.dbpoweramp.com	N/A	1	N/A	N/A
DIS GUI	DIS GUI	GOTS	4	N/A	N/A
Doculex PDF Capture/Print It	Image Management Systems	1.0.2.17	3	Annually in January	Yes
Docupoint DWF Publisher Edition for AutoCAD	Docupoint	Publisher	1	N/A	N/A
DOORS	IBM	9.2	No limit	N/A	N/A
DreamWeaver MX 2004	Macromedia	CS3	20	N/A	N/A
Duplicate File Detective	KeyMetric Software	2	Managed by IRD	N/A	N/A
DVI Rack - Video Software 2.0	Serious Magic	2.0.1555.0	1	N/A	N/A

Name	Vendor	Version #	# of copies	Date license Expires	Maintenance Agreement
DYMO Label (Label Printer)	DYMO Corp.	6.1.0.9	2	N/A	N/A
Easy CD Creator	Roxio	8	1	N/A	N/A
Eclipse	Open Source	3.3.1.1	3	N/A	N/A
Enterprise Management Console	Oracle	9.2.0.1	5	N/A	Yes
ExamDiff Pro	PrestoSoft	4	1	N/A	N/A
Filezilla FTP client	Filezilla	3.2.7.1	No limit	N/A	N/A
Fireworks	Macromedia	4	13	n/a	N/A
Flash MX 2004	Adobe	CS3	12	N/A	N/A
Flex Builder	Adobe	3	1	N/A	N/A
FlexColor	Hasselblad	4.6.7	3	NA	N/A
Forms Designer	FileNet	4.2	3	N/A	N/A
Fraps	beepa	latest	1	N/A	N/A
Google Sketch UP	Google	Unknown	1	N/A	N/A
Gvim	http://www.vim.org/download.php#pc	7.2	1	NA	N/A
Hasselblad Phocus	Hasselblad	1.0.2	10	N/A	N/A
HTML Help Workshop	Microsoft	4.74	1	N/A	N/A
Illustrator CS3*	Adobe Systems	13.0.2	6	N/A	N/A
ImageMouse	ImageMouse	3.5.3	1	N/A	N/A
Interwrite Pads and software	E-Instruction	400	1	N/A	N/A
Java	Sun	latest	1	N/A	N/A
Java Server Console	Sun	5.2	2	N/A	N/A
JAWS for Windows	Freedom Scientific	7	1	N/A	Yes
Kodak DCS Photo Desk	Kodak	4.3.0.13	6	N/A	N/A
Lables Unlimited	Softkey International	2	23	N/A	N/A
Linkbot Pro	Tetranet	1988	1	N/A	N/A
LoadRunner	Hewlett-Packard	9.5	25	Annually in April	MPN# 1025-7514867428
Macromedia 8	Adobe	8	1	N/A	N/A
Macromedia Captivate	Macromedia Captivate	1	1	N/A	N/A
Macromedia Studio MX 2004	Adobe	7.0.1	2	N/A	N/A
Magpie		1.0	6	N/A	N/A
MathType	Design Science	5	3	N/A	N/A
MBSA	Microsoft	2.1	1	NA	N/A
Merant Version Mananger (PVCS)	Merant	8.0.0.3	1	Annually	w/DDMS
Meritage	Merant	8.0.1	1	N/A	N/A
Microsoft Active Directory Tools	Microsoft	2003	2	N/A	N/A
Microsoft Baseline Security Analyzer	Microsoft	2.1	1	NA	N/A
Microsoft Connection Manager Admin Kit	Microsoft	7.2.3790.3959	1	NA	N/A

Name	Vendor	Version #	# of copies	Date license Expires	Maintenance Agreement
Microsoft Debugging Tools	Microsoft	6.11.1.404	1	NA	N/A
Microsoft Group Policy Mgmt Console	Microsoft	1.0.2.0	1	NA	N/A
Microsoft Network Monitor	Microsoft	3.00.0372.0001	1	NA	N/A
Microsoft Resource Kit Tools	Microsoft	5.2.3790	1	NA	N/A
Microsoft Save as PDF for Office 2007	Microsoft	12.0.4518.1014	1	NA	N/A
Microsoft Security Guide Tools	Microsoft	2.1	1	NA	N/A
Microsoft SQL Server 2005	MicroSoft	9.00.1399.00	1	N/A	N/A
Microsoft SQL Server 2005	Microsoft	2005	1	NA	N/A
Microsoft Support Tools	Microsoft	5.2.3790.1830	1	NA	N/A
Microsoft Visual Studio	Microsoft	2005 SP2	1	NA	N/A
Microsoft Windows 2003 Administration Tools Pack	Microsoft	SP1	1	N/A	N/A
MicroStation PowerDraft Select	Bentley Systems	8.5	1	Annually in February	Yes
MindManager Pro	MindJet Inc.	Pro 7 Gvt	3	NA	N/A
Monaco OPTIX Pro	X-Rite, Inc.	2	28	NA	N/A
MS Visual Studio Premier Partner Ed.	Microsoft	8.0.50727.42	40	NA	N/A
Nero	Nero	6	1	N/A	N/A
NetBeans IDE	NetBeans	3.6	1	N/A	N/A
Nikon Camera Control Pro 2	Nikon	2	2	N/A	N/A
Notepad++	Notepad++	5.4.5	No limit	N/A	N/A
Observer	Network Instruments	13	1	N/A	N/A
OmniPro Limited (Scanner bundle)	Caere Corp.	4.0.0.0	2	N/A	N/A
Opera Browser	Opera	latest	1	N/A	N/A
Optiview Protocol Expert	Fluke Networks	10.0.0.80500.0	1	NA	N/A
Oracle 9i Client	Oracle	10	1	N/A	N/A
Oracle SQL developer	Oracle	10	2	N/A	N/A
OxygenLE	Eastman Kodak	2.2.1	1	NA	N/A
Pandion	Sebastiaan Beckers & Dries Stael	2.5	4	N/A	N/A
Phantom Camera Control	Vision Research	9.1.663.0	6	N/A	N/A
Phocus	Hasselblad	1.2.1	2	NA	N/A
Photoshop	Adobe Systems	CS3 (UP to CS4)	45	N/A	N/A
Photoshop - Extended	Adobe Systems	CS3 (UP to CS4)	10	NA	N/A
Photoshop Elements (Scanner bundle)	Adobe	4	2	N/A	N/A
Photoshop Elements 7 / Adobe Premiere Elements 7 - Windows	Adobe Systems	N/A	6	N/A	N/A
Pinnacle Studio Quickstart	Pinnacle	10.8.0.4641	5	N/A	N/A

Name	Vendor	Version #	# of copies	Date license Expires	Maintenance Agreement
Pinnacle TV Center Pro	Pinnacle	4.70.1426	5	N/A	N/A
Professional	Merant	8.0.0.3	1	N/A	N/A
Project Professional 2003	Microsoft	2003	5	N/A	N/A
Project Professional 2007	Microsoft	2007	15	N/A	N/A
Project Standard 2003	Microsoft	2003	2	N/A	N/A
Project Standard 2007	Microsoft	2007	1	N/A	N/A
Pulse Color-Elite	X-Rite, Inc.	1.0.2	4	NA	N/A
Putty		0.35b	6	N/A	N/A
PuttyCM	Putty	0.6.0	No limit	N/A	N/A
PVCS Version Manager	Serena (formerly Merant)	8.2.1.0	20	N/A	N/A
QuarkXpress	Quark	8	5	N/A	ODIN
Quick Test Professional	Hewlett-Packard	10	25	Annually in April	MPN# 1025-7514867428
Quick Time Pro	Apple	7.0 pro	1	N/A	N/A
Quicktest Add-in for Quality Center	Hewlett-Packard	Unknown	25	Annually in April	MPN# 1025-7514867428
Quicktest Professional Java Add-in	Hewlett-Packard	10	25	Annually in April	MPN# 1025-7514867428
Quicktime Player	Apple	7.6.2	1	N/A	N/A
Real Player	Real	latest	1	N/A	NA
Real Player	RealNetworks	10.5	1	N/A	N/A
Realplayer SP		1.0.1	5	N/A	N/A
Remedy Software Clients	BMC Software	6.03.00	10	N/A	NA
Roxio Creator	Sonic Solutions	3.3.0	2	N/A	N/A
RSA Agent	RSA	6.1.2.173	Site Wide	ODIN	ODIN
RSLinx	Allen Bradley Automation	4	1	NA	N/A
RSLogix Standard	Allen Bradley Automation	7.10.00	1	NA	N/A
Second Life	Linden Lab	latest	1	N/A	N/A
Second Life	Second Life (free download)	N/A	1	N/A	N/A
Secure CRT	VanDyke	latest	1	N/A	N/A
Secure FX	VanDyke	latest	1	N/A	N/A
Semaphore Ontology Manager	Semaphore Ontology Manager	10	1	N/A	N/A
Semaphore Rulebase Generator	Semaphore Rulebase Generator	Unknown	1	N/A	N/A
Semaphore TextMiner	Semaphore TextMiner	4.4	2	N/A	N/A
Sencore Color Pro: control platform for test equipment	Sencore	6000	2	N/A	N/A
SharePoint Designer	MicroSoft	2007	2	N/A	N/A

Name	Vendor	Version #	# of copies	Date license Expires	Maintenance Agreement
SilverFast (Scanner bundle)	GOTS	6.4 4r7	2		N/A
Sirsi Workflows	Sirsi Workflows	N/A	15	N/A	N/A
SL Console	Storagetek	FRS_4.10 (2.58.00)	2	N/A	N/A
Slick 8.5	Slickwin	8.5	1	N/A	N/A
Smart Ideas, Concept Mapping Software	Smart Ideas	N/A	1	N/A	N/A
SmartLogic-Semiphore Ontology Manager	SmartLogic-Semiphore Ontology Manager	5.0 R32959	1	NA	N/A
SnagIt	TechSmith	9	1	N/A	N/A
Solarwinds TFTP Server	Solarwinds	9.1.0.111	1	N/A	N/A
Sound Forge		6.0e	5	N/A	N/A
SQL Server Management Studio 2005	Microsoft	9.00.1399.00	10	N/A	N/A
Starry Night software	Starry Night	Pro	1	N/A	N/A
STS-Plus	David H. Ransom, Jr.	0123	23	N/A	N/A
Studio	Adobe	8	2	N/A	N/A
Studio CS4 Web Premium	Adobe	CS4	1	N/A	N/A
SureThing CD/DVD Creator Delux	SureThing Software	4	10	NA	N/A
Syclo Agentry Client	Maximo		2	N/A	N/A
Test Director for QC 9.2	Hewlett-Packard	9.2	25	Annually in April	MPN# 1025-7514867428
ThumbsPlus	Cerious Software Inc.	7.0-SP2	6	N/A	N/A
Total Recorder	High Criteria, Inc.	5.1	2	N/A	N/A
Tracker	Merant	8.0.4	1	N/A	N/A
Trendmicro management Console	Trend Micro	5.7	No Limit	N/A	N/A
TytonHellerman Tagprint Pro	Hellerman	N/A	5	N/A	N/A
Veritas Backup Reporter	Symantec	6.6.0.EEB_1789899	2	N/A	N/A
Video Operations Scheduler (VOS)	JIMMS	1.1	23	N/A	N/A
Visio Professional 2003	Microsoft	2003	5	NA	N/A
Visio Professional 2007	Microsoft	2007	11	N/A	N/A
Visio Standard 2003	Microsoft	2003	8	N/A	N/A
Visio Standard 2007	Microsoft	2007	9	N/A	N/A
Visual Basic	Microsoft	6.0	1	N/A	N/A
Visual C++	Microsoft	N/A	30	N/A	N/A
Visual Studio	MicroSoft	2008	5	N/A	N/A
Visual Studio .NET 2003	Microsoft	2003	1	N/A	N/A
Visual Studio 2003	Microsoft	7.1	1	N/A	N/A
Visual Studio 2005	Microsoft	8.0.50728	3	N/A	N/A
Visual Web Developer 2008	Microsoft	9.0.30727.0	No limit	N/A	N/A
VLC Media Player	The VideoLAN Team	0.8.6c	25	N/A	N/A
Vmware vShpere Client	Vmware	5	15	N/A	Yes

Name	Vendor	Version #	# of copies	Date license Expires	Maintenance Agreement
VOS	GOTS	1.1	25	N/A	N/A
Winmerge	Thingamahoochie Software	2.12.2.0	3	N/A	N/A
WinRascol	Lasergraphics, Inc.	5.1	1	NA	N/A
WS-FTP Pro Server	Ipswitch Software	4.0.1	2	NA	N/A
X Server	X-Deep/32	4.6.5	5	N/A	N/A
XenApp	Citrix	11.1	N/A	N/A	N/A
Xming	Xming	6.9.0.31	No limit	N/A	N/A
XnView	Pierre -e-Gougelet	1.96	1	N/A	N/A

***Part of Adobe Web Premium CS3 package**