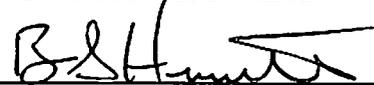


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. 401		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430			9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
			10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended.					
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
<p>The purpose of this modification is to extend the period of performance of the change order created by modification 368 VOM Reductions, dated September 12, 2006. The following is hereby changed: Change "Definitization of this change order will occur not later than 31 Jan 07" to "Definitization of this change order will occur not later than 28 Feb 07".</p> <p>In consideration of the modification agreed to herein as complete equitable adjustment for the contractor's proposal for adjustment, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts and circumstances giving rise to the proposal for adjustment.</p>					
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Brian S. Hinerth Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)	
				16C. DATE SIGNED 30 Jan 07	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 402		3. EFFECTIVE DATE 31 January, 2007		4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6 ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899			CODE OPOS		7. ADMINISTERED BY (If other than Item 6) CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
				10B. DATED (SEE ITEM 13) August 21, 1998	
CODE		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
[] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended.					
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:					
(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
1. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984). THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984)					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor [] is not, [X] is required to sign this document and return <u>3</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
The purpose of this modification is to revise Section J, Attachment J-9 (Glossary)) and Section J, Attachment J-1 (SOW), paragraphs 3.2.2 and 3.2.3.2. The changes reflected herein constitute a no cost change. Section J, Attachment J-9: Change the acronym SFOC (Space Flight Operations Contract) to read SPOC (Space Program Operations Contract). Change of the acronym within this attachment shall constitute a change to all reflective acronyms throughout the contract. Section J, Attachment J-1: Paragraph 3.2.3: SFOC, delete the following words "Standards support and" Paragraph 3.2.3.2: Second sentence delete "SFOC is entitled to reference standard and calibration only." This change revises the Glossary (Attachment J-9) and SOW (Attachment J-1) paragraphs 3.2.2 and 3.2.3.2. All other terms and conditions of the contract remain unchanged. In consideration of the modification agreed to herein as complete equitable adjustment for the contractor's proposal for adjustment, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts and circumstances giving rise to the proposal for adjustment.					
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) C. David Shreve Contracting Officer		
15B. CONTRACTOR/OFFEROR <i>Victoria G. Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED 5 Feb 07		16B. UNITED STATES OF AMERICA <i>C. David Shreve</i> (Signature of Contracting Officer)	
				16C. DATE SIGNED 6 Feb 07	

ORIGINAL

PPR	Prior Permission Required
PRACA	Problem Reporting and Corrective Action
PRP	Personnel Reliability Program
RAM	Random Access Memory
RC/CC	Responsibility Center/Cost Center
RCM	Reliability Centered Maintenance
REMS	Registered Equipment Management System
ROM	Read Only Memory
RSA	Records Staging Area
RTLS	Return to Launch Site
RTU	Remote Terminal Unit
SA	Support Agreement
SA-ALC	San Antonio Air Logistics Command
SARA	Superfund Amendments and Reauthorization Act
SBSS	Standard Base Supply System
SCAPE	Self-Contained Atmospheric Protective Ensemble
SDIO	Strategic Defense Initiative Organization
SDS	Specifications Documentaton System
SE	Sustaining Engineering
SPOC	Space Program Operations Contract (Mod 402)
SLF	Shuttle Landing Facility
SMF	Security Marshaling Facility
SMITS	Special Material Inventory and Tracking System
SOW	Statement of Work
SPECSINTACT	Specifications-Kept-Intact
SRB	Solid Rocket Booster
SSI	Systems Security Integration
SSPF	Space Station Processing Facility
STA	Shuttle Training Aircraft
STI	Scientific and Technical Information
STS	Space Transportation System
SW	Space Wing
SWI	Space Wing Instruction
T.E.	Technical Exhibit
T.O.	Technical Order
TAL	Transoceanic Abort Landing
TCID	Test Configuration Identifier Document
TCLP	Toxicity Characteristic Leachate Procedure
TCRS	Training Certification and Record System
TCTO	Time Compliance Technical Order
TDD	Telephone Device for the Deaf
TDY	Temporary Duty
TRI	Toxic Release Inventory
TSDF	Treatment, Storage, and Disposal Facility

3.2.3 Laboratories

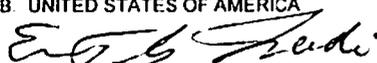
The contractor shall perform the nondestructive evaluation of various kinds of hardware, standards and calibration services at KSC, calibration services at CCAFS and PAFB, sampling and analysis of waste and propellant commodities at KSC, sampling services at CCAFS and PAFB, component cleaning and refurbishment services, and other related services, including the following:

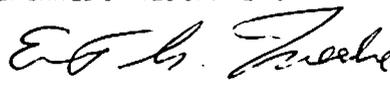
- Permeability and compatibility studies of materials used in conjunction with hypergolic fluids;
- Developmental and sustaining engineering support in the science of hypergolic Toxic Vapor Detectors (TVDs);
- Sustaining engineering services for existing non-CFC (chlorofluorocarbons) cleaning and verification processes; and
- Development and maintenance of capabilities manuals for all laboratories

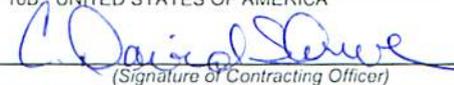
Laboratory services are provided to the following, with exceptions noted below for SFOC, CAPPs, and ISS:

- AF 45th Space Wing;
- AF 45th Space Wing contractors with J-BOSC support clauses in their contracts;
- Other government agencies with Host Tenant Agreements with the AF 45th Space Wing;
- NASA-KSC;
- NASA-KSC contractors with J-BOSC support clauses in their contracts;
- CAPPs (J-BOSC only provides Standards and Calibration);
- SFOC (J-BOSC only provides NDE Radiography support); and **(Mod 402)**
- Allied Signal (J-BOSC only provides Standards support)

3.2.3.2 Standards and Calibration. The contractor shall provide calibration service for Standards and Test, Measurement and Diagnostic Equipment (TMDE), including related repairs, to NASA-KSC, PAFB, CCAFS, JDTMA, and Down Range to Ascension Island and Antiqua. NASA-KSC customers entitled to calibration service include NASA-KSC, CAPPs, SFOC, Allied Signal, and other NASA contractors with the appropriate calibration support clause in their contracts. Allied Signal is entitled to Standards Calibration only. AF customers entitled to support include the 45th Space Wing, 45th Space Wing contractors with the appropriate calibration support clauses in their contracts, and other government agencies with Host Tenant Agreements which specify calibration support. Services shall be provided in accordance with Technical Order 00-20-14 or ANSI/NCSL Z540. The requirements for all Standards and Calibration services are as listed in J-BOSC Technical Exhibit 7.0-113. **(Mod 402)**

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 403	3. EFFECTIVE DATE February 07, 2007	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (if applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899	CODE OPOS	7. ADMINISTERED BY (if other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430		9A. AMENDMENT OF SOLICITATION NO.		
		9B. DATED (SEE ITEM 11)		
		10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
		10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
1. ACCOUNTING AND APPROPRIATION DATA (if required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984). THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.			
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).			
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:			
	D. OTHER (Specify type of modification and authority)			
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return ___ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) This Change Order provides Contracting Officer direction to immediately implement the partnered government decision packages numbers 03b (Delay to Air Force General Plan), 05b (Reduce SRMC design WLI by \$400K in Master Planning), 06b (Reduce 5 year plan support from Programming), 10b (Reduce SRMC design work load indicator), 12b (Reduction in Tech Document services), 13b (Reduce construction inspection), 46b (Reduce GIS support to CCAFS), 47b (Eliminate Real-Time requests for routine engineering support) and 49b (Reduce Tech Doc Center support). SGS is hereby directed to implement a reduction in these services effective 23 February 2007. The changes will be addressed during upcoming CCR Implementation meetings and subsequent approved implementation plans for assigned CCR(s). The changed contractual requirements set forth in this UCA shall be clearly defined and shall be limited to the effort required to satisfy urgent program descope requirements while a cost proposal is prepared, analyzed and negotiated. The proposal due date will be established during the upcoming CCR Implementation meetings. Definitization of this change order is expected to occur not later than 30 Apr 07.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ernest G. Tweedie Contracting Officer		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA 	16C. DATE SIGNED 7 FEB 07	
(Signature of person authorized to sign)		(Signature of Contracting Officer)		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTR D CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 404	3. EFFECTIVE DATE February 07, 2007	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899	CODE OPOS	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430		9A. AMENDMENT OF SOLICITATION NO.		
		9B. DATED (SEE ITEM 11)		
		10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
		10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended. <input type="checkbox"/> is not extended.				
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
1. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984). THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.			
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).			
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:			
	D. OTHER (Specify type of modification and authority)			
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return ____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
<p>This Change Order provides Contracting Officer direction to immediately implement the partnered government decision packages numbers 17b (Reduce CCAFS estimator support), 45b (Reduce Heavy Equipment Support) and WBS 2.2.2 (Reduce pest control – termite inspection & mosquito spraying). SGS is hereby directed to implement a reduction in these services effective 23 February 2007. The changes will be addressed during upcoming CCR Implementation meetings and subsequent approved implementation plans for assigned CCR(s).</p> <p>The changed contractual requirements set forth in this UCA shall be clearly defined and shall be limited to the effort required to satisfy urgent program descope requirements while a cost proposal is prepared, analyzed and negotiated. The proposal due date will be established during the upcoming CCR Implementation meetings. Definitization of this change order is expected to occur not later than 30 Apr 07.</p>				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ernest Tweedie Contracting Officer		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA 	16C. DATE SIGNED 7 FEB 07	
(Signature of person authorized to sign)		(Signature of Contracting Officer)		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTR. ID CODE		PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. 405		3. EFFECTIVE DATE February 07, 2007		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899				7. ADMINISTERED BY (If other than Item 6) CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001			
				10B. DATED (SEE ITEM 13) August 21, 1998			
CODE	FACILITY CODE						
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
[] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended.							
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:							
(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
1. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984). THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor [X] is not, [] is required to sign this document and return ___ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
<p>This Change Order provides Contracting Officer direction to immediately implement the partnered government decision packages numbers 25b (CCAFS Reduction of GSA vehicles), 27b (Reduce CCAFS and PAFB Body Shop Support), 28b (Reduce CCAFS Heavy Equipment Maintenance), and 29b (Reduce CCAFS PT Fleet Manager Support). SGS is hereby directed to implement a reduction in these services effective 23 February 2007. The changes will be addressed during upcoming CCR Implementation meetings and subsequent approved implementation plans for assigned CCR(s).</p> <p>The changed contractual requirements set forth in this UCA shall be clearly defined and shall be limited to the effort required to satisfy urgent program descope requirements while a cost proposal is prepared, analyzed and negotiated. The proposal due date will be established during the upcoming CCR Implementation meetings. Definitization of this change order is expected to occur not later than 30 Apr 07.</p>							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) C. David Shreve Contracting Officer			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)		16C. DATE SIGNED 07 Feb 07	
(Signature of person authorized to sign)							

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 12
2. AMENDMENT/MODIFICATION NO. 406	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899		7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430			9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
			10B. DATED (SEE ITEM 13) August 21, 1998	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984)			
	D. OTHER (Specify type of modification and authority)			
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
<p>The purpose of this no cost modification is to incorporate new Technical Exhibit 3.1.2.7-01 entitled Security Addendum, dated 3 December 2006.</p> <p>This change revises SOW 3.1.2.7, Badging and Identification, Attachment J-5, Technical Exhibit Listing and adds new Technical Exhibit 3.1.2.7-01, NCIC FBI Information Systems Security Addendum as shown on the attached pages. All other terms and conditions of the contract remain unchanged.</p> <p>In consideration of the modification agreed to herein as complete equitable adjustment for the contractor's proposal for adjustment, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts and circumstances giving rise to the proposal for adjustment.</p>				
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ernest G. Tweedie Contracting Officer	
15B. CONTRACTOR/OFFEROR <i>Victoria Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED 26 Feb 07	16B. UNITED STATES OF AMERICA <i>Ernest G. Tweedie</i> (Signature of Contracting Officer)	
			16C. DATE SIGNED 28 Feb 07	

- Coordinate all other investigative matters involving other KSC or CCAFS contractors through the appropriate contractor investigative elements;
- Control, maintain, and use surveillance equipment;
- Protect, store, and control evidence in accordance with appropriate state and federal evidentiary rules and practices;
- Provide "centralized lost and found" services, including logging for receipt and destruction;
- Provide Off-site protection for designated flight-crew members, families, and distinguished visitors/very important persons (DVs/VIPs); and
- Support NASA technical laboratory services available worldwide, to Law Enforcement Agencies

3.1.2.6 Security Plans. The contractor shall develop normal (day-to-day) and contingency operation plans, per NPR 1620.1A and 45 SW OPLAN 31-101, to ensure the smooth functioning of KSC and CCAFS security services. As a minimum, the contractor shall perform the following:

- Provide information and coordination to ensure that launch and landing operations, critical activities, and other special events are performed in compliance with established or real-time requirements, procedures, and constraints;
- Compile statistical data, prepare recommendations, and present briefings concerning security controls for major hazardous activities, special escorts, and mission-specific events;
- Prepare and publish Operations Plans, supplements to NASA and Air Force Regulations/Instructions, local directives, and Post Instructions and support the antiterrorism program; safeguard KSC and CCAFS and mitigate terrorist acts through the application of physical security and Random Antiterrorism Measures (RAM); establish antiterrorism funding estimates and provide antiterrorism training and updates; and
- Administer the waiver/deviation program

3.1.2.7 Badging and Identification. The contractor shall provide badging/identification services including:

- Receiving visit request data and processing, fabricating, and issuing all types of badges and permits;
- Logging, reporting, and filing all transactions and invalidating all lost or unaccounted for badges and permits;
- Providing level of clearance verification during non-duty hours in response to telephonic requests;
- Reviewing, validating, and processing requests for temporary passes, picture badges, area permits, and temporary area authorizations transmitted by electronic means from other KSC/CCAFS contractor security offices;

- Obtaining, maintaining, and issuing reserve gate badges, pouches, and equipment consistent with local strike plans;
- Process, fabricate, and issue temporary passes, picture badges, area permits, and temporary area authorizations for all foreign national visitors as approved by the International Visits Coordinator (IVC) or designee;
- Administer unescorted access requirements for NASA personnel entering CCAFS restricted areas;
- Process electronic fingerprints and associated data inputs for KSC visitor access determination;
- Providing fingerprint services to the appropriate CCAFS/KSC personnel; and
- Providing Air Force/NASA Badging Program support
- **The Contractor will process random National Crime Information Center (NCIC) criminal background history reviews, during non-peak periods, to support Government force protection installation entry process. The Government (45 Space Wing) will be responsible to provide all equipment, software, connectivity and maintenance of same at no cost to the Contractor. The Government (45 Space Wing) will also provide any operational training at no increased cost to Contractor. It is the understanding of all affected parties that routine pass & identification processing time may be increased during training periods. Technical Exhibit 3.1.2.7-01, Security Addendum, is being added as no-cost to the Contractor based on the agreements detailed in this paragraph. (Mod 406)**

3.1.2.8 Personnel Security. The contractor shall provide appropriate personnel security support for KSC and perform the following:

- Process (as applicable) routine investigative requests for KSC Personnel Reliability Program (PRP) and KSC Information Technology, and Personnel Security Programs;
- Conduct pre-employment screening for Interim PRP;
- Accept from and certify to other NASA Centers PRP Certifications;
- Conduct interviews, perform record checks, review and summarize investigations, out processing of civil servants and maintain a database of current and pending actions for the Federal Employees Security Program; and
- Provide administrative, investigative, database management systems and customer interface support to the NASA International Visitors Program at KSC

3.1.2.9 Security Education and Training. The contractor shall develop and implement a Security Education and Training Program Plan for all personnel at KSC/CAAFS and the Florida Annexes in accordance with NPR 1620.1A, AFI 31-207, and Lead Center Agreement.

The contractor shall provide NASA Federal Law Enforcement Training at KSC and other NASA centers and maintain records in support of the Lead Center Agreement for Agency policy and standards development and training in the area of security and law enforcement including the NASA Federal Arrest Authority program, the NASA Security Officer Fundamentals Course (SOFC), verification of the Commission on the

TECHNICAL EXHIBIT LISTING

WBS	Document Number	Rev. Date	Document Name	Mod Number
3.1.2	J-BOSC Tech Exhibit 3.1.2-01	7/03	KSC Realignment of Security Posture for FY04-08	239
3.1.2	J-BOSC Tech Exhibit 3.1.2-02	7/03	45SW/ CCAFS Realignment of Security Posture FY04-FY08	239
3.1.2	J-BOSC Tech Exhibit 3.1.2-03	02/06	Baseline Realignment Security Posture Table FY04-08	318
3.1.2.7-01	JBOSC Tech Exhibit 3.1.2.7-01	12/06	NCIC FBI Information System Security Addendum	406
3.1.2.9	J-BOSC Tech Exhibit 7.0-007	12/05	NASA Computer Systems, Application and Database (TRAC Application)	347
3.1.2.10-01	JBOSC Tech Exhibit 3.1.2.10-01	11/05	Security Police Special Duty Position Criteria	323
3.2.1	J-BOSC Tech Exhibit 7.0-001	08/04	NASA Supply Customer Support Matrix	232
3.2.1.2	J-BOSC Tech Exhibit 7.0-007	12/05	NASA Computer Systems, Application and Database (KSC Records Management System (IM03))	347
3.2.2	J-BOSC Tech Exhibit 7.0-005	10/97	NASA Transportation Customer Support Matrix	205
3.2.2	J-BOSC Tech Exhibit 3.2.2-02	05/05	Air Force Vehicle Turn-over	287
3.2.3.2	J-BOSC Tech Exhibit J5-3.2.3.2-01	10-04	Special Calibrations Support	348 (CCR 04-36)
3.2.3.2	J-BOSC Tech Exhibit 7.0-113	10/03	Precision Measurement Equipment Laboratory (PMEL)	232
3.2.4	J-BOSC Tech Exhibit 7.0-021	10/97	Types of Propellants	205
3.2.4	J-BOSC Tech Exhibit 3.2.4-01	03-05	Self Contained Atmospheric Protective Ensemble (SCAPE) Suits	279
3.3	J-BOSC Tech Exhibit 7.0-007	12/05	NASA Computer Systems, Application and Database	347
3.3.1.1	J-BOSC Tech Exhibit 2.1.1-01	12/99	NASA/KSC Informational Technology/Geographical Information System/Application Development	205
3.4.1.4	J-BOSC Tech Exhibit 3-3.4.1.4-01	9/03	Support to All ELV Missions and the NASA Portal Web Site	208
3.4.4	J-BOSC Tech Exhibit 7.0-074	08/02	KSC Area Access Familiarization Video Training Provided to USAF	205
3.4.4	J-BOSC Tech Exhibit 7.0-075	08/02	KSC Monthly Workload Indicator – Technical Training Courses	205
3.4.4	J-BOSC Tech Exhibit 7.0-076	08/02	Training Workload Indicators for CCAFS/PAFB	205
3.5	J-BOSC Tech Exhibit 5.5-362	10/97	Storm Water Permit	205
3.5.1	J-BOSC Tech Exhibit 7.0-036	09/97	Memorandums of Understanding	205
3.5.2	J-BOSC Tech Exhibit 7.0-039	02/03	NRC Materials License for KSC and CCAFS	205

Technical Exhibit # 3.1.2.7-01
Security Addendum

3 Dec 06

FEDERAL BUREAU OF INVESTIGATION
CRIMINAL JUSTICE INFORMATION SERVICES
SECURITY ADDENDUM

The goal of this document is to provide adequate security for criminal justice systems while under the control or management of a private entity, the Contractor. Adequate security is defined in Office of Management and Budget Circular A-130 as "security commensurate with the risk and magnitude of harm resulting from the loss, misuse, or unauthorized access to or modification of information."

The intent of this Security Addendum is to require that the Contractor maintain a security program consistent with federal and state laws, regulations, and standards (including the CJIS Security Policy in effect when the contract is executed), as well as with policies and standards established by the Criminal Justice Information Services (CJIS) Advisory Policy Board (APB).

This Security Addendum identifies the duties and responsibilities with respect to the installation and maintenance of adequate internal controls within the contractual relationship so that the security and integrity of the FBI's information resources are not compromised. The security program shall include consideration of personnel security, site security, system security and data security.

The provisions of this Security Addendum apply to all personnel, systems, networks and support facilities supporting and/or acting on behalf of the government agency.

1.00 Definitions

1.01 Administration of criminal justice - the detection, apprehension, detention, pretrial release, post-trial release, prosecution, adjudication, correctional supervision, or rehabilitation of accused persons or criminal offenders. It also includes criminal identification activities; the collection, storage, and dissemination of criminal history record information; and criminal justice employment.

1.02 Agency Coordinator (AC) - a staff member of the Contracting Government Agency, who manages the agreement between the Contractor and agency.

1.03 Contracting Government Agency (CGA) - the government agency, whether a Criminal Justice Agency or a Noncriminal Justice Agency, which enters into an agreement with a private contractor subject to this Security Addendum.

1.04 Contractor - a private business, organization or individual which has entered into an agreement for the administration of criminal justice with a Criminal Justice Agency or a Noncriminal Justice Agency.

1.05 Control Terminal Agency (CTA)- a duly authorized state or federal criminal justice agency with direct access to the National Crime Information Center (NCIC) telecommunications network providing statewide (or equivalent) service to its criminal justice users with respect to the various systems managed by the FBI CJIS Division.

1.06 Control Terminal Officer (CTO)- an individual located within the CTA responsible for the administration of the CJIS network for the CTA.

1.07 Criminal Justice Agency (CJA)- The courts, a governmental agency, or any subunit of a governmental agency which performs the administration of criminal justice pursuant to a statute or executive order and which allocates a substantial part of its annual budget to the administration of criminal justice. State and federal Inspectors General Offices are included.

1.08 Noncriminal Justice Agency (NCJA) - a governmental agency or any subunit thereof that provides services primarily for purposes other than the administration of criminal justice.

1.09 Noncriminal justice purpose - the uses of criminal history records for purposes authorized by federal or state law other than purposes relating to the administration of criminal justice, including employment suitability, licensing determinations, immigration and naturalization matters, and national security clearances.

1.10 Security Addendum - a uniform addendum to an agreement between the government agency and a private contractor, approved by the Attorney General of the United States, which specifically authorizes access to criminal history record information, limits the use of the information to the purposes for which it is provided, ensures the security and confidentiality of the information consistent with existing regulations and the CJIS Security Policy, provides for sanctions, and contains such other provisions as the Attorney General may require.

2.00 Responsibilities of the Contracting Government Agency

2.01 The CGA entering into an agreement with a Contractor is to appoint an AC.

2.02 In instances in which responsibility for a criminal justice system has been delegated by a CJA to a NCJA, which has in turn entered into an agreement with a Contractor, the CJA is to appoint an Agency Liaison to coordinate activities between the CJA and the NCJA and Contractor. The Agency Liaison shall, inter alia, monitor compliance with system security requirements. In instances in which the NCJA's authority is directly from the CTA, there is no requirement for the appointment of an Agency Liaison.

2.03 The AC will be responsible for the supervision and integrity of the system, training and continuing education of employees and operators, scheduling of certification testing and all required reports by NCIC.

2.04 The AC has the following responsibilities:

- a. Understand the communications and records capabilities and needs of the Contractor which is accessing federal and state records through or because of its relationship with the CGA;
- b. Participate in related meetings and provide input and comments for system improvement;
- c. Receive information from the CGA (e.g., system updates) and disseminate it to appropriate Contractor employees;
- d. Maintain and update manuals applicable to the effectuation of the agreement, and provide them to the Contractor;
- e. Maintain up-to-date records of employees of the Contractor who access the system, including name, date of birth, social security number, date fingerprint card(s) submitted, date security clearance issued, and date certified or recertified (if applicable);
- f. Train or ensure the training of Contractor personnel. If Contractor personnel access NCIC, schedule the operators for a certification exam with the CTA staff. Schedule new operators for the certification exam within six (6) months of employment. Schedule certified operators for re-certification testing within thirty (30) days prior to the expiration of certification. Schedule operators for any other mandated class;
- g. The AC will not permit an un-certified employee of the Contractor to access an NCIC terminal;
- h. Where appropriate, ensure compliance by the Contractor with NCIC validation requirements;
- i. Provide completed Applicant Fingerprint Cards on each person within the Contractor who accesses the System to the CJA (or, where appropriate, CTA) for criminal background investigation prior to such employee accessing the system; and
- j. Any other responsibility for the AC promulgated by the FBI.

2.05 The CTA shall ensure that all NCIC hot file transactions and Interstate Identification Index (III) transactions be maintained on an automated log for a minimum of six months. This automated log must identify the operator on III transactions, the agency authorizing the transactions, the requester, and any secondary recipient. This information can be captured at log on and can be a name, badge number, serial number, or other unique number.

3.00 Responsibilities of the Contractor

3.01 The Contractor shall maintain a security program which complies with this Security Addendum.

3.02 The Contractor shall assign a Security Officer accountable for the management of this security program. This person shall coordinate with the CGA to establish the security program.

3.03 The Contractor shall document the security program in a Security Plan. The Security Plan shall describe the implementation of the security requirements described in this Security Addendum, the associated training program, and the reporting guidelines for documenting and communicating security violations to the CGA. The Security Plan shall be subject to the approval of the CJA, even in instances in which the CGA is the NCJA.

3.04 The Contractor shall provide for a Security Training Program for all Contractor personnel engaged in the management, development, operation, and/or maintenance of criminal justice systems and facilities. Annual refresher training shall also be provided.

3.05 The Contractor shall establish a security violation response and reporting procedure to discover, investigate, document, and report on all security violations. Violations which endanger the security or integrity of the criminal justice system or records located therein must be communicated to the CGA immediately. Minor violations shall be reported to the CGA on a periodic basis, but in no instance less than quarterly. See Section 8.01.

3.06 The Contractor's facilities will be subject to unannounced security inspections performed by the CGA. These facilities are also subject to periodic FBI and state audits.

3.07 The security plan is subject to annual review by the CJA and the Contractor. During this review, efforts will be made to update the program in response to security violations, changes in policies and standards, and/or changes in federal and state law and technology.

3.08 The Contractor and its employees will comply with all federal and state laws, rules, procedures and policies (including the CJIS Security Policy in effect when the contract is executed) formally adopted by the FBI and the CJIS APB, including those governing criminal history record information.

4.00 Site Security

4.01 The Contractor shall dedicate and maintain control of the facilities, or areas of facilities, that support the CGA.

4.02 All terminals physically or logically connected to the computer system accessing NCIC and the criminal justice files must be segregated and screened against unauthorized use or observation.

5.00 System Integrity

5.01 Only employees of the Contractor, employees of CGA, the Agency Liaison, and such other persons as may be granted authorization by the CGA shall be permitted access to the system.

5.02 The Contractor shall maintain appropriate and reasonable quality assurance procedures.

5.03 Access to the system shall be available only for official purposes consistent with the appended Agreement. Any dissemination of NCIC data to authorized employees of the Contractor is to be for their official purposes.

5.04 Information contained in or about the system will not be provided to agencies other than the CGA or another entity which is specifically designated in the contract.

5.05 All criminal history record information requests must be envisioned and authorized by the appended Agreement. A current up-to-date log concerning access and dissemination of criminal history record information shall be maintained at all times by the Contractor.

5.06 The Contractor will ensure that its inquiries of NCIC and any subsequent dissemination conforms with applicable FBI/NCIC policies and regulations, as set forth in (1) the Security Addendum; (2) the NCIC 2000 Operating Manual; (3) the Policy and Reference Manual; (4) the CJIS Security Policy; and (5) Title 28, Code of Federal Regulations, Part 20. All disseminations will be considered as "Unclassified, For Official Use Only."

5.07 The Contractor shall protect against any unauthorized persons gaining access to the equipment, any of the data, or the operational documentation for the criminal justice information system. In no event shall copies of messages or criminal history record information be disseminated other than as envisioned and governed by the appended Agreement.

6.00 Personnel Security

6.01 Appropriate background investigations must be conducted on all Contractor employees and the Contractor's vendors which provide system maintenance support.

6.02 Thorough background screening by the CGA is required. This investigation includes submission of a completed applicant fingerprint card to the FBI through the state identification bureau. State and national record checks by fingerprint identification must be conducted for all personnel who manage, operate, develop, access and maintain criminal justice systems and facilities. Record checks must be completed prior to employment.

6.03 When a request is received by the CTA before system access is granted:

a. The CGA on whose behalf the Contractor is retained must check state and national arrest and fugitive files.

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These checks are to be no less stringent than those performed on CJA personnel with access to NCIC.

b. If a record of any kind is found, the CGA will be formally notified, and system access will be delayed pending review of the criminal history record information. The CGA will in turn notify the Contractor-appointed Security Officer.

c. When identification of the applicant with a criminal history has been established by fingerprint comparison, the CGA's designee will review the matter. A Contractor employee found to have a criminal record consisting of any felony convictions or of misdemeanor offenses which constitute a general disregard for the law is disqualified. Applicants shall also be disqualified on the basis on confirmations that arrest warrants are outstanding for such applicants.

d. If an adverse employment determination is made, access will be denied and the Contractor-appointed Security Officer will be notified in writing of the access denial. This applicant will not be permitted to work on the contract with the CGA. Disqualified employees and applicants for employment shall be notified of the adverse decisions and the impact that such records had on such decisions.

6.04 The investigation of the applicant's background shall also include contacting of employers (past or present) and personal references.

6.05 The Security Officer shall maintain a list of personnel who successfully completed the background investigation.

6.06 The CGA will ensure that each Contractor employee receives a copy of the Security Addendum and executes an acknowledgment of such receipt and the contents of the Security Addendum. The signed acknowledgments shall remain in the possession of the CGA and available for audit purposes.

6.07 The CGA shall ensure that each Contractor employee authorized to access CJIS network terminals or information provided therefrom is specially trained in the state and federal laws and rules governing the security and integrity of criminal justice information.

6.08 All visitors to sensitive areas of Contractor facilities must be escorted at all times by a Contractor employee with clearance. Names of all visitors shall be recorded in a visitor log, to include date and time of visit, name of visitor, purpose of visit, name of person visiting, and date and time of departure. The visitor logs shall be maintained for five years following the termination of the contract.

7.00 System Security

7.01 Transmission, processing, and storage of CJA information shall be conducted on dedicated systems. Increased reliance

should be placed on technical measures to support the ability to identify and account for all activities on a system and to preserve system integrity.

7.02 The system shall include the following technical security measures:

- a. unique identification and authentication for all interactive sessions;
- b. if warranted by the nature of the contract, advanced authentication techniques in the form of digital signatures and certificates, biometric or encryption for remote communications;
- c. security audit capability for interactive sessions and transaction based logging for message-based sessions; this audit shall be enabled at the system and application level;
- d. access control mechanisms to enable access to be restricted by object (e.g., data set, volumes, files, records) to include the ability to read, write, or delete the objects;
- e. ORI identification and access control restrictions for message based access;
- f. system and data integrity controls;
- g. access controls on communications devices;
- h. confidentiality controls (e.g., partitioned drives, encryption, and object reuse).

7.03 Data encryption shall be required throughout the network passing through a shared public carrier network.

7.04 The Contractor shall provide for the secure storage and disposal of all hard copy and media associated with the system to prevent access by unauthorized personnel.

7.05 The Contractor shall establish a procedure for sanitizing all fixed storage media (e.g., disks, drives) at the completion of the contract and/or before it is returned for maintenance, disposal or reuse. Sanitization procedures include overwriting the media and/or degaussing the media. If media cannot be successfully sanitized it must be returned to the CGA or destroyed.

8.00 Security violations

8.01 Consistent with Section 3.05, the Contractor agrees to inform the CGA of system violations. The Contractor further agrees to immediately remove any employee from assignments covered by this contract for security violations pending investigation. Any violation of system discipline or operational policies related to system discipline are grounds for termination, which shall be immediately reported to the AC in

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writing.

8.02 The CGA must report security violations to the CTO and the Director, FBI, along with indications of actions taken by the CGA and Contractor.

8.03 Security violations can justify termination of the appended agreement.

8.04 Upon notification, the FBI reserves the right to:

a. Investigate or decline to investigate any report of unauthorized use;

b. Suspend or terminate access and services, including the actual NCIC telecommunications link. The FBI will provide the CTO with timely written notice of the suspension. Access and services will be reinstated only after satisfactory assurances have been provided to the FBI by the CJA and Contractor. Upon termination, the Contractor's records containing criminal history record information must be deleted or returned to the CGA.

8.05 The FBI reserves the right to audit the Contractor's operations and procedures at scheduled or unscheduled times. The FBI is authorized to perform a final audit of the Contractor's systems after termination of the Security Addendum.

9.00 Miscellaneous provisions

9.01 This Security Addendum does not confer, grant, or authorize any rights, privileges, or obligations on any persons other than the Contractor, CGA, CJA (where applicable), CTA, and FBI.

9.02 The following documents are incorporated by reference and made part of this agreement: (1) the Security Addendum; (2) the NCIC 2000 Operating Manual; (3) the Policy and Reference Manual; (4) the CJIS Security Policy; and (5) Title 28, Code of Federal Regulations, Part 20. The parties are also subject to applicable federal and state laws and regulations.

9.03 The terms set forth in this document do not constitute the sole understanding by and between the parties hereto; rather they provide a minimum basis for the security of the system and it is understood that there may be terms and conditions of the appended Agreement which impose more stringent requirements upon the Contractor.

9.04 This Security Addendum may only be modified by the FBI, and may not be modified by the parties to the appended Agreement without the consent of the FBI.

9.05 All notices and correspondence shall be forwarded by First Class mail to:

Assistant Director
Criminal Justice Information Services Division, FBI
1000 Custer Hollow Road
Clarksburg, West Virginia 26306

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2 w/attach	
2. AMENDMENT/MODIFICATION NO. 407		3. EFFECTIVE DATE See Block 16c		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (if applicable)		6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899		7. ADMINISTERED BY (if other than item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No. street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430			9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
			10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:					
(a) By completing items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (if required) See Contracting Officer for current Accounting & Appropriation Data					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <i>Mutual Agreement of the Parties and FAR 52.243-2 Changes - Cost Reimbursement (AUG 1987) Alt II (APR 1984)</i>					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>3</u> copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
1) The purpose of this modification is to incorporate the changes outlined in CCR's 07-25 and 07-26. 2) DRD 3.4.1-01 (Attached) is hereby amended as follows (CCR 07-25): <ul style="list-style-type: none"> • Block K, "Distribution" is hereby changed from "TA-B" to "IT-D1" • Block 5 "Organization" is hereby changed from "TA-B" to "IT-D1" • Block 6 "References" is hereby changed from "NPG 1490.5A, dated 07/08/97" to "NPD 1490.1G dated 01/2006" 					
Continued on Page 2					
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Timothy M. Freeland Contracting Officer		
15B. CONTRACTOR/OFFEROR <i>Victoria Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED 1 Mar 07		16B. UNITED STATES OF AMERICA <i>[Signature]</i> (Signature of Contracting Officer)	
				16C. DATE SIGNED 3-2-07	

- 3) Compliance Document NPR 1490.5A is hereby replaced with NPD 1490.1G dated 01/06. Attachment J-4, Compliance Documents (attached) is updated to reflect this change (CCR 07-25).
- 4) Statement of Work Paragraph 3.4.1.1, Printing, sub-bullet number 1 is hereby deleted in its' entirety and replaced with the following (CCR 07-25):
 - Comply with NPD 1490.1G, NASA Printing, Duplicating, and Copy Management Directive;
- 5) As outlined in CCR 07-26 compliance document number AFI 33-118 is hereby deleted from Attachment J-4, Compliance Documents (attached) and from Statement Of Work Paragraph 3.3, Information Technology, General Requirements (attached). Modification 362 removed the requirement for radio frequency management from the J-BOSC. This revision is a direct result of SGS no longer being contractually required to provide radio frequency management and CCSMO's neglect to delete the document from the contract with modification 362 (CCR 07-26).
- 6) There is no cost associated with this modification.

- Ensure AGE is available to support transient aircraft, off base support requests as approved by 45th Space Wing/CC; and
- Operate and maintain liquid/gaseous oxygen and gaseous nitrogen carts and associated equipment; and maintain historical records, supply records, and technical operating data.

3.2.6 Hazardous and Controlled Waste

3.2.6.1 Hazardous and Controlled Waste Management. The contractor shall provide hazardous and controlled waste management for KSC, CCAFS and PAFB, and mainland annexes including hazard determination, pick up, storage, <90 day treatment options, and manifesting; and off-site shipment for treatment and disposal of hazardous and controlled waste.

The contractor shall provide characterization and disposal of investigation-derived wastes from NASA remediation sites. The contractor shall operate and ensure compliance of the NASA-KSC hazardous waste Treatment/Storage and Disposal Facility (TSDF).

Controlled wastes include materials which cannot be disposed of as domestic sewage or without constraints in a Resource Conservation & Recovery Act (RCRA) Subtitle D Landfill. Radioactive materials and sanitary wastes are excluded from support under this WBS.

The contractor shall handle, store, transport, consolidate, and dispose of all bulk industrial liquid waste generated at KSC/CCAFS.

3.2.6.2 Post-Emergency. The contractor shall provide and coordinate post-emergency clean-up, decontamination, neutralization, and disposal of regulated wastes at KSC, CCAFS, and Florida Annexes per OPlan 32-3 Vol. 111A, 111B, Vol. V-VIII, and KHB 8800.7 as referenced in Section J, Attachment J-4. Post-emergency spill clean-up at PAFB shall be done only at the request of the 45th Space Wing.

The contractor shall provide maritime spill prevention and clean-up services. This includes maintaining preventive oil booms for the Naval Ordnance Test Unit (NOTU) to ensure available immediate notice support to the Disaster Response Plan. Equipment includes NOTU boats, trucks, trailers, and the containment boom, and must be used for no other purpose.

3.3 INFORMATION TECHNOLOGY

The contractor shall provide computer and designated communications support for NASA-KSC and the 45th Space Wing as described below. This includes preparing an Information Technology (IT) Investment and Purchase Plan, in accordance with DRD 3.3-01, Plan, IT Investment and Purchase.

General Requirements. The contractor shall perform the following tasks on systems as listed in Technical Exhibit 7.0-007:

- Support Planning and implementation of new/re-engineered NASA-KSC systems/applications such as Integrated Financial Management Program (IFMP);
- Provide client/server and database management capability and systems, plus functional and physical interface to external providers of mainframe, desktop, and communication services;
- Provide coordination and support to NASA in reviewing and implementing government and NASA directives and standards, and comply with those directives after they have been adopted as listed below;

Document Number	Document Title
NASA Directives	
NASA Technical Standards	Series 2000, Computer Systems, Software, and Data Systems
NPG 2810.1A	Security for Information Technology (Mod 369) (Mod 386)
NPR 2820.1	Management Assurance and Engineering Policy
OMB Circular A-11, Transmittal Memorandum #70, Part 3, and Supplement to Part 3	Planning, Budgeting, and Acquisition of Capital Assets and Capital Planning guides
OMB Circular A-130, App III AFI 33-118	Management of Federal Information Resources Radio-Frequency Spectrum Management (MOD 407)

- Provide and comply with a semi-annual Information Technology Plan that identifies priorities and schedules for IT systems support and re-engineering efforts;
- Provide and perform risk management, disaster recovery, and security for supported systems/ applications;
- Seek opportunities to extend the productive life of KSC's administrative computer and communications resources and to provide the technical staff and users with improved Federal Information Processing Standards (FIP) working environments; this includes investigating and implementing proven new products, new technologies, and/or innovative processes that offer opportunities for productivity improvement, reduced operational cost, and/or extended technological life for existing IT resources;
- Provide technical expertise to support NASA IT projects, reviews, and data calls; and
- The contractor has the option of receiving Desktop Services (including but not limited to desktop hardware and software, hardware and software technology refreshment, hardware and software maintenance, desktop help desk services, network printing services and desktop IT Security) as a Contractor-to-Contractor Service via the KSC Outsourcing Desktop Initiative for NASA (ODIN) Deliver Order.

End User Services. The contractor shall operate an IT Help Desk, from 7:00 a.m. – 5:00 p.m. Monday through Friday, for systems required to be maintained and/or supported by the contractor and coordinated ticket closures with the originating entity. The contractor shall provide application specific assistance and training for the applications' entire computing environment including communications, the application, and the database or files manager.

IT Resource Management. The contractor shall participate in KSC's implementation of the NASA Automated Information Security Program. The scope of this program includes all automated information resources owned by KSC and operated by the contractor as well as other automated information resources that are operated or controlled by the contractor if they are used to store, process, or transmit sensitive NASA information. The contractor shall:

- Designate a computer security official;
- Provide sensitive applications user training in both general and application specific security requirements;

- Personal computer moves;
- Provide installations, troubleshooting, repairs, and/or removals of CAT-5 and fiber cable, hubs, switches, routers, Modems and associated accessories;
- Provide trend analysis to determine network growth, and verify the need for planned network expansion; and
- Manage IP database

3.4 ADMINISTRATIVE SERVICES

The contractor shall provide support services to NASA-KSC and the 45th Space Wing to include publications development and reproduction, printing, microimaging, engineering document control, graphic services, forms control, information support, External Relations and Business Development writing support, technical library administration, mail processing and distribution, and training certification for safety, health, skills, and operational area access.

3.4.1 Publications

The contractor shall provide printing and microimaging reproduction services to NASA-KSC. Services include printing/duplicating, color copying, engineering drawing reproduction, multicolor digital printing, aperture card plotting, document scanning, and CD-ROM mastering. The contractor shall coordinate with the KSC Printing Management Officer on jobs that require printing by Government Printing Office (GPO) contract. The PAMIS (Printing and Micrographics Information System) database, or equivalent, shall be maintained to provide customer and workload accountability. The contractor shall meet printing quality standards of GPO Publication 310.1, Level III quality standards for color copying, and Level IV, quality standards for printing/duplicating.

3.4.1.1 Printing. The contractor shall perform the following:

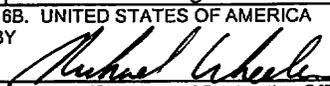
- ~~Comply with NPR 1490.5A, NASA Procedures and Guidelines for Printing;~~
- Comply with NPD 1490.1G, NASA Printing, Duplicating, and Copy Management Directive: (CCR 07-25, Mod 407)
- Provide Center wide duplicating, networked electronic publishing and color copying;
- Electronically transfer and publish Launch, Landing, Orbiter Processing, and Payload Operating and Maintenance Instructions (OMIs);
- Electronically receive and publish Integrated Control Schedules for Shuttle Orbiters, Shuttle Payload, and Space Station processing;
- Electronically receive and publish NASA Payroll, NASA Personnel documentation, Shuttle, Payloads, and J-BOSC NEMS reports;
- Provide controlled color copying support Center wide;
- Provide Electronic Document Distribution to other NASA Centers;
- Operate printing and microimaging Information System (PAMIS) (SI07) for printing reporting;
- Provide copying, duplicating, electronic publishing, remote mainframe computer printing, and document finishing;
- Provide engineering drawing reproductions from originals, electronic, and microfilm;
- Provide multi-color digital printing, including folding and document finishing, and provide reproductions containing as many as three colors; and
- Provide Aperture card and microfiche prints (8.5x11 to 18x24 inches)

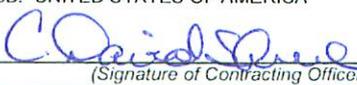
DATA REQUIREMENT

CONTRACT APPLICATION INFORMATION FOR DRL _____					A. ITEM NO. 3.4.1-01
B. LINE ITEM TITLE: WBS 3.4.1, Publications (Modification 58)					
C. OPR. JPMO	D. TYPE 3	E. INSPECT/ ACCEPT 6	F. REQ. a = AR, b = MO, c = Every 4 months	G. INITIAL SUB. b = 4/22/99 c = 4-22-99	H. AS OF DATE b = 30/3 from receipt. c = 120/5 from receipt.
J. REMARKS: a = Office Copier Justification to Install, Move or Upgrade b = Monthly Detail to Invoice Summary Sheets, submit 3 days from receipt. c = 4-Months Detail to Invoice Summary Sheets, submit 5 days from receipt.					
K. DISTRIBUTION				TOTALS	
FA-B IT-D1				NO.	TYPE
				1	A
DATA REQUIREMENT DESCRIPTION					
1. TITLE Reports, Office Copier Justification to Install, Move or Upgrade, Monthly and 4-Months Detail to Invoice Summary Sheets				2. NUMBER 3.4.1-01	
3. USE Reports are required to properly manage KSC's Copier Program				4. DATE 11 May 00	
				5. ORGANIZATION NASA/KSC FA-B IT-D1	
7. INTERRELATIONSHIP				6. REFERENCES NPG 1490-5A, dated 07/08/97 (NPI) 1490-1G dtd 01/2000	
8. PREPARATION INFORMATION					
a. Office Copier Justification to Install, Move or Upgrade Report - The format for this report shall be KSC Form 28-51. Instructions for the completion of this form are on the reverse side of the form. a. Monthly Detail to Invoice Summary Sheets - The monthly invoice and meter reading sheets are provided by the Cost-Per-Copy (CPC) copier support contractor, and should be reconciled and submitted three days from their receipt. <ul style="list-style-type: none"> 1. Validate meter readings and cost for each copier. 1. Redline discrepancies and provide comments 1. Initial and forward for final processing. c. 4-Month Detail to Invoice Summary Sheets - The format for this report is provided by the CPC copier support contractor following a 4-month copier triannual review period. (Ref. NAS5-96077, "NASA-wide CPC Contract", para. 3.2, pg. 6&7). Reconcile and submit five days from receipt of summary sheets. <ul style="list-style-type: none"> 1. Validate the 4-Month average minimum volume and cost for each copier 1. Redline discrepancies, identify copiers for possible move, downgrade, or upgrade 1. Provide comments, initial and forward for final processing 					

COMPLIANCE DOCUMENTS

WBS	Document Number	Rev. Date	Document Name	Mod Number
3.3	OMB Circular A-11, Transmittal Memorandum #70, Part 3 & Supplement to Part 3	10/97	Planning, Budgeting, and Acquisition of Capital Assets & capital Planning Guides	Mod 205
3.3	OMB Circular A-130, App III	02/96	Management of Federal Information Resources	Mod 205
3.3	AFI-33-118	08/97	Radio Frequency Spectrum Management	Mod 205
3.3	KNPG 2570.1A		DELETED	Mod 362
3.3	NPR 2810.1A	05-06	Security for Information Technology	Mod 369
3.4.1.1	<u>NPD 1490.1G</u>	<u>01/06</u>	<u>NASA Printing, Duplicating, and Copy Management</u>	<u>Mod 407</u>
3.4.1.1	NPR 1490.5A	07/97	NASA Procedures and Guidelines for Printing, Duplicating, and Copying Management	Mod 205
3.4.1.1	GPO Publication 310.1	04-96	Quality Assurance Through Attributes Program for Printing and Binding	Mod 348 (CCR 05-47)
3.4.1.1	KDP-KSC-P-1280, Rev B		Government Printing Process	Mod 348 (CCR 05-47)
3.4.3	USPS Domestic Mail Manual	01/96	United States Postal Service Domestic Mail Manual	
3.4.3	USPS International Mail Manual	07/96	United States Postal Service International Mail Manual	
3.5.1.1	KBM-PL-1-3	09/02	KSC Emergency Medical Services Plan	Mod 232
3.5.1.1	KNPR 1810.1	09/04	KSC Occupational Medicine Program	Mod 297
3.5.1.1	JHB2000 Rev B	4/04	Consolidated Comprehensive Emergency Management Plan	Mod 232
3.5.1.1	TA-POLICY-012	No date	KSC Automated External Defibrillator (AED) Policy	Mod 348 (CCR 04-28)
3.5.1.1	No Number	06-00	NASA Occupational Health Program Guidelines for Implementing a Center Automated External Defibrillator Program, Interim Guidance from the NASA Chief Health and Medical Officer	Mod 348 (CCR 04-28)
3.5.1.2	KBM-ST-2.1	02/99	Medical Standards	Mod 205
3.5.2	KNPR 1820.3 (T)	10/04	KSC Hearing Loss Prevention Program	Mod 297, 348
3.5.2	KNPR 1820.4 (T)	10/04	KSC Respiratory Protection Program	Mod 297, 348
3.5.2	KNPR 1840.19 (T)	10/04	KSC Industrial Hygiene Program	Mod 297, 348
3.5.2	KNPR 1860.1 (T)	10/04	KSC Ionizing Radiation Protection Program	Mod 347, 348

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 408		3. EFFECTIVE DATE see Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (if applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899				7. ADMINISTERED BY (if other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.		
				9B. DATED (SEE ITEM 11)		
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
				10B. DATED (SEE ITEM 13) August 21, 1998		
CODE		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended.						
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:						
(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
12. ACCOUNTING AND APPROPRIATION DATA (if required) See Contracting Officer for current Accounting & Appropriation Data						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
<input checked="" type="checkbox"/> D. OTHER (Specify type of modification and authority) <i>Unilateral Mod/ Contract Article G-2, Contract Funding, and FAR 52.232-22, Limitation of Funds</i>						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return ___ copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)						
<p>The purpose of this unilateral modification is to obligate funding in the amount of \$2,817,661. These funds, when added to the amount already obligated on the contract, are estimated to be adequate for contract performance through May 20, 2007.</p> <p>This change revises Article G-2, as shown on the attached page.</p>						
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
				Michael Wheeler Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY		16C. DATE SIGNED
						2/14/2007
(Signature of person authorized to sign)				(Signature of Contracting Officer)		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. 409		3. EFFECTIVE DATE February 15, 2007		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (if applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899			CODE OPOS	7. ADMINISTERED BY (if other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.		
				9B. DATED (SEE ITEM 11)		
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
				10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
[] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended.						
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:						
(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
7. ACCOUNTING AND APPROPRIATION DATA (if required)						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
	D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor [X] is not, [] is required to sign this document and return 0 copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)						
The purpose of this modification is to extend the definitization schedule identified in change order modification number 375, Mowing Reductions, dated September 29, 2006 and extended by modification number 387, dated 11 December 2006.						
SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 15 Mar 07" to "Definitization of this change order will occur not later than 30 April 07".						
All other terms and conditions remain unchanged and in full force and affect.						
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) C. DAVID SHREVE Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)		16C. DATE SIGNED 15 Feb 07
(Signature of person authorized to sign)						

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 15	
2. AMENDMENT/MODIFICATION NO. 410		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899				7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001			
				10B. DATED (SEE ITEM 13) August 21, 1998			
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended.							
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).							
X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984)							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
<p>The purpose of this modification is to definitize Change Order 368 to provide for an equitable adjustment for the decrease in Vehicle Operations and Maintenance service at CCAFS. The performance period for this CCR (06-43) is 15 September 2006 through 30 September 2008. The contract estimated cost and fee is decreased by (\$1,307,282) in cost and (\$104,586) in fee for a total decrease of (\$1,411,868).</p> <p>This change revises Article B-3, Contract Value; Article B-4, Award Fee; Article G-2 Contract Funding, Attachment J-1 Statement of Work, Attachment J-5 Technical Exhibit Listing, Attachment J-12 Workload Indicators and Technical Exhibits J5-3.2.2-03 as shown on the attached pages. All other terms and conditions of the contract remain unchanged.</p> <p>In consideration of the modification agreed to herein as complete equitable adjustment for the contractor's proposal for adjustment, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts and circumstances giving rise to the proposal for adjustment.</p>							
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Brian S. Hinert Contracting Officer			
15B. CONTRACTOR/OFFEROR <i>Victoria Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED 26 Feb 07		16B. UNITED STATES OF AMERICA <i>B. S. Hinert</i> (Signature of Contracting Officer)		16C. DATE SIGNED 27 Feb 07	

ARTICLE B-3 CONTRACT VALUE			
Basic Period Sep 98-30 Sep 03			
The contract value is summarized below:			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Phase-In Period (FFP) (Sept 1998)	\$1,113,486		1,113,486
Basic Period Thru 395			
10/01/98-09/30/00	\$396,406,378	\$23,187,199	419,593,577
Neg. Cost Overrun MOD 135	\$9,200,000	\$0	9,200,000
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY99-FY00	\$405,606,378	\$23,187,199	428,793,577
(10/01/00-09/30/01)	\$215,635,118	\$13,106,768	228,741,886
Neg. Cost Overrun MOD 135	\$18,804,377	\$0	18,804,377
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY01	\$234,439,495	\$13,106,768	247,546,263
(10/01/01-09/30/02)	\$234,055,207	\$14,098,312	248,153,519
Neg. Cost Overrun MOD 135	\$19,865,904	\$0	19,865,904
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY02	\$253,921,111	\$14,098,312	268,019,423
(10/01/02-09/30/03)	\$247,365,902	\$15,357,411	262,723,313
Neg. Cost Overrun MOD 135	\$22,426,471	\$0	22,426,471
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY03	\$269,792,373	\$15,357,411	285,149,784
TOTAL BASIC PERIOD	\$1,164,872,843	\$65,749,690	1,230,622,533
Option Period 1 Oct 03 - 30 Sept 04			
Option 1A			
(10/01/03-09/30/04)	\$244,075,599	\$15,352,803	259,428,402
Neg. Cost Overrun MOD 135	\$22,135,767	\$0	22,135,767
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY04	\$266,211,366	\$15,352,803	281,564,169
Option 3BA			
(10/01/03-09/30/04)	\$2,322,030	\$185,762	2,507,792
Option 5BA			
(10/01/03-09/30/04)	\$321,092	\$25,687	346,779
TOTAL OPTION 1A PERIOD	\$268,854,488	\$15,564,252	284,418,740

Option Period 1 Oct 04 - 30 Sept 06			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Options Thru Mod 410			
OPTION 1B			
(10/01/04-09/30/05)	\$278,485,639	\$17,043,409	295,529,048
Neg. Cost Overrun MOD 135	\$25,895,945	\$0	25,895,945
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			\$0
Total FY05	\$304,381,584	\$17,043,409	321,424,993
(10/01/05-09/30/06)	\$261,577,567	\$14,035,254	275,612,821
Neg. Cost Overrun MOD 135	\$29,101,654	\$0	29,101,654
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 410	\$37,009	\$2,452	\$39,461
Total FY06	\$290,716,230	\$14,037,706	304,753,936
Option 3BB			
10/01/04-09/30/05	\$2,391,149	\$191,292	2,582,441
10/01/05-09/30/06	\$2,477,883	\$198,231	2,676,114
Total Option 3BB	\$4,869,032	\$389,523	5,258,555
Option 5BB			
10/01/04-09/30/05	\$331,342	\$26,507	357,849
10/01/05-09/30/06	\$331,781	\$26,542	358,323
Total Option 5BB	\$663,123	\$53,049	716,172
TOTAL OPTION 1B Period	\$600,629,969	\$31,523,687	632,153,656
Option Periods 1 Oct 06 - 30 Sep 08			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
OPTION 1C			
(10/01/06-9/30/07)	\$264,914,218	\$17,342,961	282,257,179
Neg. Cost Overrun MOD 135	\$31,867,270	\$0	31,867,270
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 410	(\$657,766)	(\$52,623)	(710,389)
Total FY07	\$296,123,722	\$17,290,338	313,414,060
(10/01/07-9/30/08)	\$270,036,764	\$17,640,501	287,677,265
Neg. Cost Overrun MOD 135	\$33,448,837	\$0	33,448,837
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 410	(\$686,525)	(\$54,924)	(741,449)
Total FY08	\$302,799,076	\$17,585,577	320,384,653

	Option Periods 1 Oct 06 - 30 Sep 08 Cont.		
Option 3BC			
10/01/06-09/30/07	\$2,539,810	\$203,185	2,742,995
10/01/07-09/30/08	\$2,621,598	\$209,728	2,831,326
Total Option 3BC	\$5,161,408	\$412,913	5,574,321
Option 4BB			
10/01/04-09/30/05	\$0	\$0	0
10/01/05-09/30/06	\$0	\$0	0
Total Option 4BB	\$0	\$0	0
Option 4BC			
10/01/06-09/30/07	\$0	\$0	\$0
10/01/07-09/30/08	\$0	\$0	\$0
Total Option 4BC	\$0	\$0	\$0
Option 5BC			
10/01/06-09/30/07	\$332,204	\$26,576	358,780
10/01/07-09/30/08	\$341,511	\$27,321	368,832
Total Option 5BC	\$673,715	\$53,897	727,612
TOTAL OPTION 1C Period	\$604,757,921	\$35,342,725	640,100,646
TOTAL CONTRACT			
VALUE SEP98-SEP08	\$2,639,115,221	\$148,180,354	\$2,787,295,575
*Earned fees for past periods plus the available fees for future periods			
Exercised options are moved above the Total Contract Value Line.			

3.2.2 Vehicle/Railroad Operations and Maintenance

The contractor shall provide vehicle operations and maintenance services as required to support KSC, CCAFS, and PAFB as ~~described in J-5 Technical Exhibits 7.0-005, and 3.2.2-02, and 3.2.2-03.~~ Vehicle operations and maintenance services at both CCAFS and PAFB shall be provided by a vehicle operations and maintenance branch at each location. The vehicle operations branches shall have dispatch services that provide service IAW Technical Exhibit J5 3.2.2-03 ~~bus, tractor/trailer, base taxi, wrecker service (PAFB-only), and crew van support, MHE services, and a U-Drive-It vehicle fleet.~~ The general purpose vehicle fleet can be GSA leased and maintained. Alternative Fuel Vehicle acquisitions shall follow schedule matrix in Technical Exhibit J5 3.2.2-01. The vehicle operations branch at KSC shall consist primarily of scheduled and unscheduled bus services. Vehicle maintenance shall be performed primarily in Hangar U, Building 1744, CCAFS, Buildings 313, 511, 676 PAFB, Building M6-486, KSC Industrial Area, and K6-1844, Locomotive Maintenance Facility.

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~~The contractor shall comply with the following documents:~~

Document Number	Document Title
45SW-OPLAN-10-403	Installation Deployment Plan
45SW-OPLAN-28-31 (Being revised: will be OPLAN-10-404)	Base Support Plan
IATA	International Airline Transportation Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
SA 15A-1-2	333 USAFRSQ
SA 15A-1-7	114 CCS
SA 15A-1-9	AFTAC
SA 15A-1-13	437 MAW
SA 15A-1-16	Det 3 ASC
SA 15A-1-19	HQ AFROTC (Sr. ROTC)
SA 15A-1-23	822 ASTS
SA 15A-1-26	301 RQS
SA 15A-1-32	ESC/OL-AT (JOINT STARS)
SA 15A-1-36	HQ AFROTC (Jr. ROTC)
SA 15B-1-1	MSCO
SA 15B-1-4	NOTU
SA 15B-1-5	CD, NSWG
SA 15C-1-2	MTMCCCD
SA 15C-1-5	USARG
SA 15D-1-2	DEOMI
SA 15D-1-6	DRMO
SA 15D-1-13	DDMS
SA 15D-1-14	DCMG
SA 15E-1-5	DOS-INM-ISA
ST/SG/AC.10/1/Rev. 9	United Nations Recommendations on the Transport of Dangerous Goods

3.2.2.1 Vehicle Operations. The contractor shall provide:

- Taxi and bus transportation service at CCAFS (Skid Strip), KSC (SLF), and PAFB (Flight line) to support air crews and passengers traveling either to or from aircraft that are arriving or departing to various destinations both on and off the installation;
- Scheduled shuttle route bus service to include pad support at KSC;
- Transportation services assigned by the NASA-KSC Transportation Office to meet scheduled and unscheduled events, unmanned launches, and center activity tours, shuttle launches/landings, and VIP tours;
- Bus services at CCAFS, and PAFB to support tours, launches, VIPs;
- Normal PAFB 8 vehicle U-Drive It fleet to consist of: Sedan (2), LD Minivan 7 Pax (2), LD Van 4x2 8 Pax (2), MD Pickup 6 Pax (1) and MD Covered Truck 1 Ton (1). ~~U-Drive-It (UDI) vehicle support at PAFB and CCAFS.~~
- Dispatch services at KSC, CCAFS and PAFB;
- Dispatch data for upward required reports;
- Support for the Decontamination Team and the Base Disaster Preparedness Team; and
- Flight-line cargo service at CCAFS, KSC, and PAFB
- Perform annual entries into the Federal ~~Automotive Statistical Tool Acquisition Systems for Technology~~ (FAST) database; entries shall be submitted no later than 24 October of each year. (Mod 232)

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3.2.2.2 Vehicle Maintenance. The contractor shall provide maintenance at CCAFS, PAFB, and KSC for government vehicles and equipment. The contractor shall also:

- Maintain ~~Air Force vehicles per AFI 24-301, vehicle operations~~ vehicles in safe and serviceable condition. ~~PAFB vehicle repair actions performed in accordance with vehicle priority category in Tech Exhibit J5-3.2.2-03;~~
- ~~Perform recurring periodic maintenance and services in accordance with established inspection intervals and standards;~~
- Maintain Air Force unregistered vehicles in safe and serviceable condition. Perform recurring periodic maintenance and services in accordance with commercial practices and track vehicles in contractor maintained database.
- Collect and enter required maintenance data into the On-line Vehicle Integrated Management System (OLVIMS) and provide data for required reports at CCAFS and PAFB; and
- ~~Perform body repair on CCAFS and PAFB vehicle, corrosion control, rust proofing and painting on CCAFS and PAFB vehicle and equipment fleet.~~

Deleted: Air Force vehicles per AFI 24-301, Vehicle Operations

Deleted: Maintain KSC vehicles and equipment in a safe and serviceable condition.

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3.2.2.3 Locomotives and Railroad Facilities. The contractor shall:

- Operate government-furnished locomotives to accomplish the movement of railcars on KSC tracks;

APPENDIX A – TAILORED DOCUMENTS

SOW Paragraph	Document Number or Description	Document Title	Description of Tailoring to be Performed
3.2.2	AFI 24-301(T)	Vehicle Operations	<p>No Vehicle Operations Plan was provided as a compliance document for KSC. To provide a single document for management and guidance for both the 45th Space Wing and KSC, SGS will tailor all sections of AFI 24-301, Vehicle Operations, to integrate KSC requirements.</p> <p>SGS is proposing to consolidate KSC and CCAFS motor pool operations at CCAFS. All vehicles that are not GSA-owned will be moved from the KSC area to the CCAFS motor pool.</p> <p>With differing command requirements for NASA and Air Force vehicle operations, SGS will prepare a wholesale change of the AFI. In addition to modifying the current seven chapters to identify separate agency requirements, SGS will add chapters as necessary for NASA/KSC unique vehicle operations requirements that are not included in the seven chapters of AFI 24-301.</p> <p>SGS will number and title this tailored document in accordance with the scheme selected following contract award.</p>
3.2.5.3	AFI 13-218	Air Traffic System Evaluation Program (Mod 269)	Chapter 4, Section 4.2 indicates that Evaluators will use the downloadable Functional Area Checklists (FAC) available on the AFFSA Airfield Operations Directorate website to evaluate compliance with established guidance and standards. However, for Skid Strip purposes, the contractor shall refer to tailored Airfield Management (AM), Airfield Operations Management (AOM), and Air Traffic Control (ATC) checklists as of 28 June, 2004. A hard copy of the tailored checklist is available at the Airfield Services IPT Lead's office.

APPENDIX C – PERFORMANCE STANDARDS

Number	Performance Description
3.2.1.5 (NEW PS)	90% of NASA packages shall be delivered to the customer within 15 days.
3.2.1.6 (NEW PS)	90% of direct freight packages shall be delivered to customer within 5 days.
3.2.1.7 (NEW PS)	90% of Excess documents shall be processed within 30 days.
3.2.2-1	Reserved
3.2.2-2	Reserved
3.2.2-3	Reserved
3.2.2-4	Reserved
3.2.2-5 (NEW PS)	Air Force Mission Critical Emergency Vehicle In-Commission Rate shall be available 88% of the time. Vehicles in corrosion and depot maintenance are excluded from calculating this percentage.
3.2.2-6 (NEW PS)	Air Force Mission Critical War Readiness Material (463L) shall be available 86% of the time.
3.2.2-7 (NEW PS)	Air Force Registered/Owned Equipment shall be available 84% of the time. Metric 3.2.2.1d Vehicles in corrosion and depot maintenance are excluded from calculating this percentage.
3.2.2-8 (NEW PS)	KSC Launch Critical Vehicle In-Commission Rate shall be available 85% of the time.
3.2.3-1	At least 90% of priority laboratory work orders shall be completed as scheduled with the customer.
3.2.3-2	At least 90% of NASA calibrations not requiring repair shall be completed within 20 calendar days or as scheduled with the customer.
3.2.3-3	At least 90% of NASA standard actions not requiring repair shall be completed within 30 calendar days or as scheduled with the customer. Reference standards to be characterized for drift overtime are exempt from turnaround time requirement.
3.2.3-4	Reserved
3.2.3-5	Reserved
3.2.3-6 (NEW PS)	At least 90% of NASA calibrations laboratory priority work orders shall be completed as negotiated with customer.
3.2.3-7 (NEW PS)	At least 90% of AF calibrations not requiring repair shall be completed within 60 calendar days or as scheduled with the customer.
3.2.3-8 (NEW PS)	At least 90% of AF PMEL Priority work orders shall be completed as scheduled with the customer.
3.2.4-1	Commodities delivered shall meet customer specifications.

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JOINT BASE OPERATIONS AND SUPPORT

CONTRACT

ATTACHMENT J-5

TECHNICAL EXHIBITS

TECHNICAL EXHIBIT LISTING

WBS	Document Number	Rev. Date	Document Name	Mod Number
3.1.2	J-BOSC Tech Exhibit 3.1.2-03	02/06	Baseline Realignment Security Posture Table FY04-08	318
3.1.2.9	J-BOSC Tech Exhibit 7.0-007	12/05	NASA Computer Systems, Application and Database (TRAC Application)	347
3.1.2.10-01	J-BOSC Tech Exhibit 3.1.2.10-01	11/05	Security Police Special Duty Position Criteria	323
3.2.1	J-BOSC Tech Exhibit 7.0-001	05/06	NASA Supply Customer Support Matrix	398 (CCR 06-24)
3.2.1.2	J-BOSC Tech Exhibit 7.0-007	12/05	NASA Computer Systems, Application and Database (KSC Records Management System (IM03))	347
3.2.2	J-BOSC Tech Exhibit 7.0-005	10/97	NASA Transportation Customer Support Matrix	205
3.2.2	J-BOSC Tech Exhibit 3.2.2-01	03/05	Alternate Fuel Vehicles Procurement Schedule	287 & 288
3.2.2	J-BOSC Tech Exhibit 3.2.2-02	05/05	Air Force Vehicle Turn-over	287
3.2.2	J-BOSC Tech Exhibit 3.2.2-03	09/06	Vehicle Operations and Maintenance (VOM) Services	410
3.2.3.2	J-BOSC Tech Exhibit J5-3.2.3.2-01	10-04	Special Calibrations Support	348 (CCR 04-36)
3.2.3.2	J-BOSC Tech Exhibit 7.0-113	10/03	Precision Measurement Equipment Laboratory (PMEL)	232
3.2.4	J-BOSC Tech Exhibit 7.0-021	10/97	Types of Propellants	205
3.2.4	J-BOSC Tech Exhibit 3.2.4-01	03-05	Self Contained Atmospheric Protective Ensemble (SCAPE) Suits	279
3.3	J-BOSC Tech Exhibit 7.0-007	12/05	NASA Computer Systems, Application and Database	347
3.3.1.1	J-BOSC Tech Exhibit 2.1.1-01	12/99	NASA/KSC Informational Technology/Geographical Information System/Application Development	205
3.4.1.4	J-BOSC Tech Exhibit 3-3.4.1.4-01	9/03	Support to All ELV Missions and the NASA Portal Web Site	208
3.4.4	J-BOSC Tech Exhibit 7.0-074	08/02	KSC Area Access Familiarization Video Training Provided to USAF	205
3.4.4	J-BOSC Tech Exhibit 7.0-075	08/02	KSC Monthly Workload Indicator – Technical Training Courses	205
3.4.4	J-BOSC Tech Exhibit 7.0-076	08/02	Training Workload Indicators for CCAFS/PAFB	205
3.5	J-BOSC Tech Exhibit 5.5-362	10/97	Storm Water Permit	205
3.5.1	J-BOSC Tech Exhibit 7.0-036	09/97	Memorandums of Understanding	205
3.5.2	J-BOSC Tech Exhibit 7.0-039	02/03	NRC Materials License for KSC and CCAFS	205
Article H-15	J-Bosc Tech Exhibit 7.0-008	11/05	AF Communications Support Equipment	398 (CCR 06-14)

Vehicle Operations and Maintenance (VOM) Services

3.2.2 Vehicle Operations and Maintenance

1. VOM to provide following services Monday through Friday:

- Normal Vehicle Dispatch Operations
 - Patrick Air Force Base 0700-1900 hours
 - Air Crew, DV*, Call-in Support 1900-0700 hours & weekends

From 1900-0700 hours & weekends, contractor will honor all requests for Air Crew/DV or Casualty Assistance Support. Any other call-in support requests must have specific 45 SW/LRF approval.

Following each service request between 1900-0700 hours & weekends, contractor is to provide 45 SW/LRF with record details of service provided and updated actual workload expended. The contractor will notify the Contracting Officer when 85% of the workload has been expended.

* Examples of Distinguished Visitors (DV) are General Officers and Senior Executive Service or Casualty Assistance Support. Contractor is to resolve any unclear DV call-in requests with 45 SW/LRF prior to execution.

- Normal Vehicle Maintenance
 - Patrick Air Force Base 0700-1545 Hours

2. VOM dispatch services provided as listed in chart:

	PAFB	CCAFS	KSC
Dispatch Service			
Bus	Y	Y	Y
Tractor Trailer	Y	Y	N
Base Taxi	Y	N	N
Wrecker Service	Y	Y	N
MHE Service	Y	Y	N
U-Drive it Vehicles	Y	N	N

3. PAFB Vehicle maintenance priority and estimated quantities (106 total) scheduled as follows:

- a. Category I Fire Fighting (9)
- b. Category II Flight Line Support (23)
- c. Category III All other registered (74)

NAS10-99001

JOINT BASE OPERATIONS AND SUPPORT

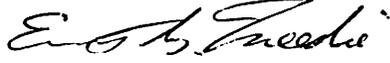
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ATTACHMENT J-12

WORKLOAD INDICATORS

The contractor shall provide a written statement certifying the accuracy of the workload data on an annual basis as of 30 September of each fiscal year. The first statement shall be no later than 30 September 2003.

WBS	Function	Workload Description or Document Title	Document Number (if Applicable)	Rev. Date
3.2.2	Transportation	CCAFS/PAFB Vehicle Operation and Maintenance (Mod 255) <ul style="list-style-type: none"> • Vehicles & Equipment maintained at KSC—1150 • Vehicles & Equipment maintained at CCAFS/PAFB—1095 • CCAFS/PAFB HE Driver Support—20,300 hours 		
3.2.2	Transportation			
3.2.2	Transportation			
3.2.2	Transportation			
3.2.2	Transportation	Patrick AFB Vehicle Operations call-in support 1900 – 0700 hours & weekends: <ul style="list-style-type: none"> • 2069 hours (Mod 410) 		
3.2.2	Transportation	USAF Vehicle and Maintenance: PAFB Base Mobility/Deployment Support Workload Summary: <ul style="list-style-type: none"> • Motor Vehicle operations (Exercise/Deployment Vehicles/drivers 12-24 Hour Duration) <ul style="list-style-type: none"> o 4- Buses with drivers o 1 – 1 ½ Ton Trk with driver o 1 – 10K Forklift with driver o 4 – Tractor/Trailers with drivers o 1 – Pick-Up (U-Drive) • Ground Movement Operations (Exercise/Deployment Vehicles/Drives Duration Exercise – 4-12 hours) <ul style="list-style-type: none"> o 9 Buses with drivers 		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTI ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 411		3. EFFECTIVE DATE February 28, 2007	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899			7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.	
ORIGINAL				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
				10B. DATED (SEE ITEM 13) August 21, 1998	
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
[] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended.					
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:					
(a) By completing Items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
7. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
X A. THIS CHANGE ORDER IS ISSUED PURSUANT TO FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor [X] is not, [] is required to sign this document and return 0 copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
<p>The purpose of this modification is to extend the definitization schedule identified in change order 367, reductions for Fire and Security at the North CCAFS ITL Area, dated September 15, 2006 as amended by modification 382, dated December 8, 2006 and modification 394, dated January 12, 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 28 Feb 07" to "Definitization of this change order will occur not later than 13 Apr 07".</p> <p>All other terms and conditions remain unchanged and in full force and affect.</p>					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			Ernest G. Tweedie Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
					28 Feb 2007
(Signature of person authorized to sign)		(Signature of Contracting Officer)			

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 96
2. AMENDMENT/MODIFICATION NO. 412	3. EFFECTIVE DATE See Block 16c Below	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899	CODE OPOS	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430			9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
			10B. DATED (SEE ITEM 13) August 21, 1998	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
1. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
X D. OTHER (Specify type of modification and authority) Mutual Agreement of the Parties				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>3</u> copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
<p>The purpose of this no cost modification is to incorporate revised Technical Exhibit 7.0-007, NASA Computer Systems, Applications, and Databases, dated 25 January 2007.</p> <p>This change revises Attachment J-5, Technical Exhibit Listing and Technical Exhibit 7.0-007 as shown on the attached pages. All other terms and conditions of the contract remain unchanged.</p> <p>In consideration of the modification agreed to herein, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts and circumstances giving rise to the proposal for adjustment.</p>				
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ernest G. Tweedie Contracting Officer	
15B. CONTRACTOR/OFFEROR <i>Victoria Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED 8 mar 07	16B. UNITED STATES OF AMERICA <i>Ernest G. Tweedie</i> (Signature of Contracting Officer)	
			16C. DATE SIGNED 12 MAR 07	

FINANCIAL MANAGEMENT COPY

TECHNICAL EXHIBIT LISTING

WBS	Document Number	Rev. Date	Document Name	Mod Number
3.1.1.15	J-BOSC Tech Exhibit 3.1.1.15-01	09/03	Technical Rescue for Heritage Program	232
3.1.2	J-BOSC Tech Exhibit 3.1.2-01	7/03	KSC Realignment of Security Posture for FY04-08	239
3.1.2	J-BOSC Tech Exhibit 3.1.2-02	7/03	45SW/ CCAFS Realignment of Security Posture FY04-FY08	239
3.1.2	J-BOSC Tech Exhibit 3.1.2-03	02/06	Baseline Realignment Security Posture Table FY04-08	318
3.1.2.9	J-BOSC Tech Exhibit 7.0-007	01/07	NASA Computer Systems, Application and Database (TRAC Application)	412
3.1.2.10-01	J-BOSC Tech Exhibit 3.1.2.10-01	11/05	Security Police Special Duty Position Criteria	323
3.2.1	J-BOSC Tech Exhibit 7.0-001	05/06	NASA Supply Customer Support Matrix	398 (CCR 06-24)
3.2.1.2	J-BOSC Tech Exhibit 7.0-007	01/07	NASA Computer Systems, Application and Database (KSC Records Management System (IM03))	412
3.2.2	J-BOSC Tech Exhibit 7.0-005	10/97	NASA Transportation Customer Support Matrix	205
3.2.2	J-BOSC Tech Exhibit 3.2.2-01	03/05	Alternate Fuel Vehicles Procurement Schedule	287 & 288
3.2.2	J-BOSC Tech Exhibit 3.2.2-02	05/05	Air Force Vehicle Turn-over	287
3.2.3.2	J-BOSC Tech Exhibit J5-3.2.3.2-01	10-04	Special Calibrations Support	348 (CCR 04-36)
3.2.3.2	J-BOSC Tech Exhibit 7.0-113	10/03	Precision Measurement Equipment Laboratory (PMEL)	232
3.2.4	J-BOSC Tech Exhibit 7.0-021	10/97	Types of Propellants	205
3.2.4	J-BOSC Tech Exhibit 3.2.4-01	03-05	Self Contained Atmospheric Protective Ensemble (SCAPE) Suits	279
3.3	J-BOSC Tech Exhibit 7.0-007	01/07	NASA Computer Systems, Application and Database	412
3.3.1.1	J-BOSC Tech Exhibit 2.1.1-01	12/99	NASA/KSC Informational Technology/Geographical Information System/Application Development	205
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JBOSC Technical Exhibit 7.0-007

NASA Computer Systems, Applications, and Databases

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REVISION RECORD

The following revisions have been applied to this document:

Revision Date	Description
13 November 2003	General update.
17 June 2004	<p>This revision includes updates to program count information, system descriptions, system identifiers, security plan information and point-of-contact information</p> <p>Systems removed:</p> <p>FF06 Non Destructive Evaluation (NDE) TA12 Facility Project Management System (FPMS)</p> <p>Systems added:</p> <p>JB04 Training Resource Automation Center (TRAC) JB27 Technical Training Mgmt System (TTMS) JB31 Facility Information Center JB49 The BIG Access Database JB50 Health & Resource System (HERS) JB51 Health Unit Management System (HUMS) JB52 Material Safety Data Sheets (MSDS)</p>
2 November, 2004	<p>This revision includes updates to program count information, system descriptions, system identifiers and point-of-contact information.</p> <p>Systems removed:</p> <p>RG60 Equipment Reconciliation</p> <p>Systems added:</p> <p>AA01 Senior Secretarial Council Website EA01 Business World Website IT03 NASA Correspondence Templates IT04 Combined Federal Campaign Application IT05 Environmental and Energy Awareness Week (EEAW) IT06 Education Calendar Application IT07 KSC Internal Home Page SA01 Area Access Application TA17 Safety Variance Request Process System (SVRPS) TA18 Surplus Property Sales Program TA20 Facility Space Utilization Application (FSUA) TA21 NASA Recycle & Affirmative Procurement Web Site UB01 Florida Labor Management Application UB02 Master Plan/Acquisition Forecast Application</p>

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Revision Date	Description
	XA02 Press Site Media Accreditation Application XA03 Speakers Bureau Web Site Application XA04 KSC Public Web Pages XA05 Press Site Media Metrics Application XA06 NASA Multi Media Gallery Application XA07 Mission Quiz XA08 Site Survey Application XA09 Countdown Clock Application XA10 KSC Search Engine Application XA11 Conversion Utility Application
December 7, 2004 Approved by CCSMO Mod 269	This revision includes the addition of 20 applications and the removal of 2 applications. Systems removed: AC05 KSC Payroll Unique System GG03 SAP Budget Formulation Systems added: BA04 KSC Human Resources Website EA02 Benchmarking Website IT09 Equipment Tracking System Application JB82 GIS – CCGIS Data Maintenance Sub-Application JB83 GIS – JBOSC Environmental Sub-Application JB84 GIS – Security Incident Tracking Sub-Application JP02 CCSMO Website PH11 DAAWG Website TA22 GIS – Cable Engineering Sub-Application TA23 GIS – Spaceport Map Viewer TA24 GIS – Electrical Ductbank Sub-Application TA25 GIS – Geodetic Control Sub-Application TA26 GIS – NASA Environmental Management Sub-Application TA27 GIS – Facility Floor Plans Sub-Application TA28 GIS – Excavation Permit Sub-Application TA29 GIS – Planning Sub-Application TA30 KSC Administrative Services Website TA31 Environmental and Energy Awareness Website TA32 Propellants Website UB03 Change Leaders Network Website
December 15, 2005	Removed the following entries representing individual Websites: AA01 Senior Secretarial Website, BA04 KSC Human Resources Website EA01 Business World Website, EA02 Benchmarking Website

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Revision Date	Description
	<p>IT07 KSC Internal Home Page, JP02 CCSMO Website PH11 DAAWG Website, TA21 NASA Recycle & Affirmative Procurement Site TA30 KSC Administrative Services Website TA31 Environmental and Energy Awareness Website TA32 Propellants Website, UB03 Change Leaders Network Website XA04 KSC Public Web Pages</p> <p>Systems Removed AC02 NASA Personnel/Payroll System (NPPS) AC03 NASA Interactive Reporting System (NIPS) AC06 Space Transportation Accounting Resources System (STARS) AC07/GH29 KSC Labor Distribution System AC08 STARS Interactive Reporting System (SIRS) CCS Complex Control System IT02 KSC Internet System (KIS) JB09 Maximo – changed to Category 3 JB19 Joint Mission Operations Support Tool (JMOST) – changed to Category 3 JB52 Material Safety Data Sheets (MSDS) – changed to Category 3 PM93 KSC Personnel Unique System RD12 Fire Services – Personnel Training Report System – Archived SI40 Telephone Support Tracking System – Archived SI54 NASA Contracts Tracking System - Archived</p> <p>Systems Added AA02 Achieving Cultural Excellence Application (ACE) AF03 Vindicator – previously Category 3 AF05 ArcFM EX04 NASA Exchange Council KARS Application EX05 NASA Exchange Council Store Application FIDS Flight Information Display System – previously Category 3 GG07 Federal Personnel and Payroll System IT08 KSC NASA Holiday Dinner Application IT11 KSC Picnic Application JB14 KSC Engineering Documentation System (KEDS DRA) – previously Category 3 JB98 Skid Strip Flight Activity Application JB105 Resource Protection Program Application JB116 – IIMS – Maximo (KIMS) JB117 Map 911 Application SA03 Safety Concern Reporting System TA35 Environmental Program Branch Application</p>

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Revision Date	Description
	<p>TA39 Food Services Survey Application TA40 Senior Management Planning Tool (SMPT) TA41 Kennedy Complex Control Systems – JBOSC Utilities TA43 Automated External Defibrillator XA13 KSC History Program Hall of Honor Application XA16 Question Board Application YA05 Airborne Field Mill (ABFM) YA06 Tropical Rainfall Measurement Mission (TRMM) YA07 Meteorological Interactive Data Display System (MIDDS)</p> <p>JBOSC Information Management conducted a review of all applications noted within this document and updated the Category designations as required to comply with the definitions.</p>
January 25, 2007	<p>Systems Removed AF02 Video Imaging Computer System (VICS) – replaced with AF06 FIDS Flight Information Display System (FIDS) – Category 3 JB02 Facilities Center - Archived JB105 Resource Protection Program Application - Development on hold JB14 KSC Engineering Documentation System (KEDS DRA) – included with FF11 JB22 Analytical Information Management System (AIMS) – Category 3 JB31 Facility Information Center – Category 3 PM51 KSC Uniques for NTDS - Archived PM92 NASA Training & Development System (NTDS) - Archived RC02 KSC Locator - Archived RD05 Security Awareness Index - Archived SI01 Shuttle Landing Facility Log System – Category 3 TA10 Launch Operations Access Control System (LOACS) - Archived US36 Quality Data Center (QDC) Viewer – Category 3</p> <p>Systems Added AC02 NASA Personnel/Payroll System (NPPS) – query only AC03 NASA Interactive Planning System (NIPS) – query only AC06 Space Transportation Accounting Resources System (STARS) – query only AC07 KSC Labor Distribution System – query only AC08 STARS Interactive Reporting Subsystem (SIRS) - query only AF06 Badging Identification System (BICS) – replaced AF02 AF07 SCADA Power Distribution System for CCAFS – sys id</p>

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Revision Date	Description
	<p>assigned GG08 KSC Travel Office Application – sys id assigned, new app GG09 Process Control System - in production Sept 06 IT13 Web Portal Content Management System – sys id assign, new app JB144 GIS – Spill Prevention and Control Sub-Application active app, Oct 2006 PM93 KSC Personnel Unique System – Category 2 SA04 NASA Metrology Information System – active, sys id assigned May 06 Solimar Solimar Printshop - Category 2 TA41 Kennedy Complex Control Systems – JBOSC Utilities – sys id assigned TA46 Viisage Document Authentication – sys id assigned TA48 Gate 2 Electronic Marquee (GEM2) – sys id assigned TA49 Gate 3 Electronic Marquee (GEM3) – sys id assigned TA50 Gate 4 Electronic Marquee (GEM4) – sys id assigned</p>

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INTRODUCTION

The Technical Exhibit 7.0-007 is referenced from Section J, Attachment J-12 of the Joint Base Operations Support Contract (JBOSC) as a workload indicator for Systems and Applications in support of the work performed under Section J, Attachment J-1, The Statement of Work, in Paragraphs 3.3.1 and 3.3.2. The system information provided in this document is maintained in the *JBOSC IT Systems Database*.

The applications and systems developed, operated, and maintained under the JBOSC, for the purposes of this document, fall generally into three categories.

1. Applications and Systems wherein the Government (or the Government's representative) desires direct input into the form, function, look and feel. Such applications and systems are normally managed under a Joint CCB where both the Government and Contractor participate in making decisions related to system changes and problems. The Data Owner of these applications and systems is almost exclusively one or more Government Individual(s)/Organization(s).
2. Applications and Systems wherein the Government (or the Government's representative) will be the Data Owner of the system. The contractor is free to make changes to the system, to varying degrees, as long as the required function and or service is still provided. The Government does not normally participate in CCB activities.
3. Applications and Systems where the contractor would be the data owner of the system. Category 3 systems are not included in this document.

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COMPUTERS AND DATA COMMUNICATIONS SCOPE

This document defines the general scope of WBS 3.3, Information Technology, including the hardware and related software components of each system within the responsibility of the Joint Base Operations Support Contract (JBOSC).

This WBS provides Sustaining Engineering, and Development of software applications and Websites. Sustaining Engineering is the process of keeping the legacy applications in an operational condition. This includes: Processing and Monitoring Job Schedules, Upgrading of Source Code, DBMS, Operating System, Hardware and Utilities as required due to Vendor releases; Backing up and Recovering software and data in addition to Disaster Recovery Testing, Customer Assistance and Training; Monitoring System Performance and Resource Utilization; Collecting and reporting Metrics requirements, and Archiving Obsolete Systems.

This functional area contains a full collection of hardware platforms ranging from mainframe, midrange, server, client, and portables. These computers are located at KSC, as well as other NASA Centers and Military Facilities. The hardware runs a multitude of Operating Systems, DBMS, Development Languages, and Utilities. Types of applications vary such as: simple standalone PC applications or; complex NASA Financial Management Systems or scientific mission critical applications or client/server and web based technology in a multi-tier environment. These applications are either legacy systems, custom developed by NASA or JBOSC, or COTS packages.

Development and sustainment of NASA Computer Systems, Applications, and Databases requires skills and experience in various areas, such as: programming, database administration, security administration, configuration management, network operations, network administration, help desk, and data entry.

NDC APPLICATIONS

NDC Computer System is an IBM 9672-RB6 mainframe system as outlined in the OSF (Office of Space Flight) ADP (Automatic Data Processing) Consolidation Concepts Document. This system is known as the NDC (NASA Data Center) Mainframe (formerly known as NACC – NASA ADP Consolidation Center). The goal of NDC is to reduce the number of common hardware, software, and communications. Currently, the IBM 9672-RB6 mainframe is shared by KSC with other NASA Centers for Administration Computing. KSC's share of the mainframe is known as K14 LPAR (Logical Partition). This gives the appearance and control as if KSC has its own hardware and operating system. K14 LPAR contains Production and Test Domains.

KSC's NDC Computer consists of NASA applications such as: Human Resources, Financial Management; Equipment Management; and Procurement systems, etc. In addition, the system also houses Ground Support Applications for Space Vehicles such as CMDS and other miscellaneous applications. Sustaining Engineering requires support from all various sections of the Information Technology Division. Support is provided by JBOSC at KSC and by NDC at MSFC.

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Areas of Responsibilities

Hardware

The NDC IBM 9672-RB6 mainframe computer is located at the NDC site in Marshall Space Flight Center. The hardware located at KSC includes the 4725 Front-end Processor and the CNT; Docutech Servers and Printers; and a few IBM 3278 Terminals.

The NDC has the sole responsibility for the sustaining engineering, upgrade, and procurement of the NDC IBM Mainframe at MSFC. They also have responsibility for sustaining the 4725 Front-end Processor, CNT hardware, and the software located in the KSC CIF Computer room, while work efforts are coordinated with JBOSC Computer Operations.

Software

The NDC is responsible for the control software such as the: Operating Systems, Transaction Processors (CICS), Security Control Packages (ACF2/RACF), Network (Communications), System Utilities (TSO, File Aide, etc). KSC approves and provides feedback on the installation of these control software products through the NDC Change Request (CR) Process.

JBOSC is responsible for the following:

- Sustaining Engineering of Natural Applications used to meet KSC requirements.
- Providing installation support of Software AG Products, Utilities and Agency-wide applications.
- Supporting TIMs (Technical Interchange Meetings), DBA/Application VITS meetings, travel to Project Team Conferences, compliance to Audit requirements.
- Performing and coordinating Disaster Recovery Tests with KSC Customers, NDC, and the Host Hot Site.
- Providing DBA and Security services such as maintenance of accounts, ensuring compliance with NPG 2810 Guidelines, coordinating and consulting with NDC on security related business, system backup and recovery, monitoring system performance and resources.
- Providing operational support by Scheduling and Monitoring Jobs.
- Providing customer assistance and training; coordinate with NDC and ODIN Help Desks for problem resolution. Notify customers and broadcast outage.
- Assessing impacts and approving NDC Change Requests.
- Providing support to KSC NASA managers and NDC activities.
- Providing re-engineering support during the re-hosting of NDC IBM mainframe applications

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DISTRIBUTED COMPUTING APPLICATIONS

Distributed Computing Applications are supported for over 1,000 workstations implemented as stand-alone, file server based, Web and client-server applications. The stand-alone applications are on Personal Computers (PCs) that may or may not be connected to the Local Area Network (LAN) Server Systems. Connectivity for the file server based and client-server based applications uses the Local Area Network (LAN) Server Systems.

Distributed Computing Applications utilize Standard Hardware and Software Configuration as defined by the JBOSC IT department.

SYSTEMS AND APPLICATIONS

The table below lists all category 1 and 2 systems and applications maintained under the JBOSC.

CATEGORY	SYSTEM	NAME
1	AA02	Achieving Cultural Excellence Application (ACE)
2	AC02	NASA Personnel/Payroll System (NPPS)
2	AC03	NASA Interactive Planning System (NIPS)
2	AC06	Space Transportation Accounting Resources System (STARS)
2	AC07	KSC Labor Distribution (aka GH29)
2	AC08	STARS Interactive Reporting Subsystem (SIRS)
2	AF01	Advanced Technology Electronic Security System (ATESS)
2	AF03	Vindicator
1	AF05	ArcFM
2	AF06	Badging Identification Capture System
2	AF07	SCADA Power Distribution System for CCAFS
1	BA01	Awards Web Database 2 (AWD2)
1	BA02	Annual Training and Development Survey (ATDS)
2	CAD	Computer Aided Dispatch 4D
1	EX04	NASA Exchange Council KARS Application
1	EX05	NASA Exchange Council Store Application
1	FF10	KSC Electronic Forms Tracking System
2	FF11	KSC Engineering Documentation System (KEDS)
2	FF14	Engineering Documentation File Mgmt. (EDFM)
2	FK01	Fluids Inventory Management System (FIMS)
2	GD03	Acquisition Management Subsystem (AMS)
1	GG02	IFMP User Management System
1	GG04	IFMP SAP Core Financials
1	GG05	Core Financial Business Warehouse
1	GG06	IFMP Travel Manager
1	GG07	Federal Personnel and Payroll System
1	GG08	KSC Travel Office Application
1	GG09	Process Control System
1	HM03	Goal Performance Evaluation System (GPES)
2	IM03	KSC Records Management System

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CATEGORY	SYSTEM	NAME
2	IM08	Automatic Distribution Service System (ADSS)
2	IM10	Retired NASA Mailing Labels System
2	IM11	Miscellaneous Mailing Labels
2	IM12	One Label System
2	IM14	Invite for Bids Mailing Labels
2	IM35	Fleet Management Tracking System (FMST)
2	IM76	Heavy Equipment Log
2	IM78	KSC Locator Organization Labels
1	IT01	EDW - Self Service Management Tool (SSMT)
2	IT03	NASA Correspondence Templates
1	IT04	Combined Federal Campaign Application
1	IT05	Environmental and Energy Awareness Week (EEAW)
1	IT06	Education Calendar Application
1	IT08	KSC NASA Holiday Dinner Application
1	IT09	Equipment Tracking System Application
1	IT11	KSC Picnic Application
1	IT13	Web Portal Content Management System
2	JB01	Fire PGMS CCAS/KSC Fire Rescue
2	JB04	Training Resource Automation Center (TRAC)
1	JB06	Personnel Access Security System (PASS)
1	JB11	Geographical Information System (GIS)
2	JB116	IIMS - Maximo (KIMS)
1	JB117	Map911 Application
1	JB144	GIS - Spill Prevention and Control Sub-Application
2	JB15	Web Emergency Operations Center (Web EOC)
2	JB16	Emergency 911/Caller ID ANI/ALI (E911)
2	JB27	Technical Training Management System
2	JB49	The BIG Access Database (BAD)
2	JB50	Health & Environmental Resource System (HERS)
2	JB51	Health Unit Management System (HUMS)
1	JB82	GIS - Data Maintenance Sub-Application
1	JB83	GIS - JBOSC Environmental Management Sub-Application
1	JB84	GIS - Security Incident Tracking Sub-Application
2	JP01	CCSMO CCR Database
1	MD00	Configuration Management Data System (CMDS)
2	MD21	Asbestos Management Information System
2	OP03	Purchasing Account System
1	OP06	EXPO Exhibitor Registration Application
2	PA01	Public Affairs Metrics Tracking
2	PA04	Public Affairs Car Pass Tracking
1	PM50	KSC Training & Certification Record System
2	PM93	KSC Personnel Unique System
2	RD00	SPS Common Modules
2	RD01	Key Core Code Tracking System

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CATEGORY	SYSTEM	NAME
2	RD02	NASA Personnel Security Information
2	RD06	Security Services Case Tracking
2	RD08	Personnel Investigation Monitoring System (PIMS)
2	RD29	Security/Fire Outage Tracking System
2	RD30	Security Services Incident Reporting
2	RD40	Fire Inspection Tracking System w/Barcode
1	RG67	NASA Equipment Management System Property Custodian Module
1	RG68	NASA Equipment Management System (NEMS)
1	RG69	NASA Equipment Inventory System
2	RG71	LSOC Logistics Open Requirements Management Tracking System (LORMS)
1	RG90	NPDMS-NASA Property Disposal Management System Aim Standard
1	SA01	Area Access Application
1	SA03	Safety Concern Reporting System
2	SA04	NASA Metrology Information System
2	SI07	PAMIS Printing & Micrographics
2	SI18	Propellant Handler's Ensemble Tracking System (PHE)
2	SI36	Data Entry System
2	SI37	Propellants/Life Support Scheduling System
2	SI49	Outbound Freight Traffic
2	SOLIMAR	Solimar Printshop
1	TA01	KSC Action Item Tracking System (KAITS)
2	TA02	Conference Room Scheduler (CRS)
2	TA04	Records Management Training System (RMTS)
1	TA05	TechDoc 2
1	TA06	KSC Employee Data Warehouse (EDW)
2	TA08	Access Control and Intrusion Detection System II (ACIDS II)
2	TA09	Access Transaction History Subsystem (ATHS)
1	TA11	Specifications-Kept-Intact (SpecsIntact)
2	TA14	KSC Electronic Forms FileNet Electronic Forms Manager
2	TA15	KSC Central Fire Alarm Monitoring - Simplex
2	TA16	Communication Device Tracking System (CDTS)
2	TA17	Safety Variance Request Process System (SVRPS)
1	TA18	Surplus Property Sales Program
1	TA20	Facility Space Utilization Application (FSUA)
1	TA22	GIS - Cable Engineering Sub-Application
1	TA23	GIS - Spaceport Map Viewer
1	TA24	GIS - Electrical Ductbank Sub-Application
1	TA25	GIS - Geodetic Control Sub-Application
1	TA26	GIS - NASA Environmental Management Sub-Application
1	TA27	GIS - Facility Floor Plans Sub-Application
1	TA28	GIS - Excavation Permit Sub-Application

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CATEGORY	SYSTEM	NAME
1	TA29	GIS - Planning Sub-Application
1	TA35	Environmental Program Branch Application
1	TA39	Food Services Survey Application
1	TA40	Senior Management Planning Tool (SMPT)
2	TA41	Kennedy Complex Control Systems-JBOSC Utilities
2	TA43	Automated External Defibrillator
1	TA46	Viisage Document Authentication
2	TA48	Gate2 Electronic Marquee (GEM2)
2	TA49	Gate 3 Electronic Marque (GEM3)
2	TA50	Gate4 Electronic Marquee (GEM4)
1	UB01	Florida Labor Management Application
1	UB02	Master Plan/Acquisition Forecast Application
2	XA01	Opportunity for Improvement (OFI)
1	XA02	Press Site Media Accreditation Application
1	XA03	Speakers Bureau Website Application
1	XA05	Press Site Media Metrics Application
1	XA06	NASA Multi Media Gallery Application
1	XA07	Mission Quiz
1	XA08	Site Survey Application
1	XA09	Countdown Clock Application
1	XA10	KSC Search Engine Application
1	XA11	Conversion Utility Application
1	XA13	KSC History Program Hall of Honor Application
1	XA16	Question Board Application
2	YA02	Shuttle Data Processing System (DPS)
2	YA03	Engineering Analysis VMS Computer System (EAS)
2	YA04	Computer Aided Design/Computer Aided Engineering (CAD/CAE)
2	YA05	Airborne Field Mill (ABFM)
2	YA06	Tropical Rainfall Measurement Mission (TRMM)
2	YA07	Meteorological Interactive Data Display System (MIDDS)

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AA02 Achieving Cultural Excellence Application (ACE)

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: ColdFusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: EDW
 Data Owner: Mead, Phillip
 Data Owner Org: BA-E
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: Allows supervisors to submit a list of names to be surveyed.

AC02 NASA Personnel/Payroll System (NPPS)

Category: 2
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL
 DBMS Type: ADABAS PNATC
 Media: N/A
 Interfaces: Online GH29 Batch
 Data Owner: Bryant, Kathy
 Data Owner Org: GG-B-B
 Number of NASA Users: 10-50
 Number of Non-NASA Users:
 Primary Customers: NASA Comptroller Office, NASA Personnel Office
 Description: A standard agency-wide system designed for personnel information management and payroll calculation and distribution. This system conforms to all government regulations regarding federal government employees. It was developed as a result of a specific REFORM 88 initiative to improve efficiency of Personnel and Payroll functions throughout the federal government.

AC03 NASA Interactive Planning System (NIPS)

Category: 2
 Computer: IBM Mainframe
 Information Category: BRT

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Language: NATURAL
 DBMS Type: ADABAS PNATB
 Media: N/A
 Interfaces: AC06
 Data Owner: Davis, James B.
 Data Owner Org: GG-B
 Number of NASA Users: 10-50
 Number of Non-NASA Users:
 Primary Customers: NASA Comptroller Office
 Description: Used by NASA to formulate, analyze, evaluate, and monitor project and program plans. There are two subsystems: NIPS-PMR is used to track monthly obligations, costs, and manpower for one fiscal year; plan values coming from POP(s) and actuals from STARS. NIPS-KSC/POP is used to plan resources, dollars and manpower by fiscal year, months and quarters.

AC06 Space Transportation Accounting Resources System (STARS)

Category: 2
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL
 DBMS Type: PNATB
 Media: Disk
 Interfaces: AC02, AC03, AC08, GD03, RG60
 Data Owner: McCoy, Timothy V.
 Data Owner Org: GG-B
 Number of NASA Users: 50-100
 Number of Non-NASA Users:
 Primary Customers: NASA Comptroller Office
 Description: Used by NASA for financial management at KSC. All financial transactions are captured. Provides support for General Ledger, Accounts Payable and Receivable, Billings and Collections, Travel, and Funds Control.

AC07 KSC Labor Distribution (aka GH29)

Category: 2
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL/COBOL
 DBMS Type: PNATA
 Media: Disk

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Interfaces: Webtads, SAP, FPPS, From AC02 bi-monthly tape to AC06 (STARS)
 Data Owner: Bryant, Kathy
 Data Owner Org: GG-B-B
 Number of NASA Users: 10-50
 Number of Non-NASA Users:
 Primary Customers: NASA Comptroller Office
 Description: Application replaced in October 05 with "ALDS" which is an Agency solution. However, this application has not been archived and will remain active so that legacy data can be accessed.
 Used to balance labor costs to payroll, budget control, cost estimating, cost control, and budget preparation. This system is also used for estimating manpower requirements, manpower control, overtime analysis and control, and equipment analysis. Bi-weekly edits include number of hours worked, work order number, cost center, service code, appointment code, personnel compensation, personnel benefits, type of pay, and status code.

AC08 STARS Interactive Reporting Subsystem (SIRS)

Category: 2
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL
 DBMS Type: PNATB
 Media: Disk
 Interfaces: AC06
 Data Owner: Davis, James B.
 Data Owner Org: GG-B
 Number of NASA Users: 100-200
 Number of Non-NASA Users:
 Primary Customers: NASA Comptroller Office
 Description: Used by NASA to generate ad hoc reports from the STARS financial database. Provides support to RMO offices for financial planning.

AF01 Advanced Technology Electronic Security System (ATESS)

Category: 2
 Computer: JBOSC Server
 Information Category: MSN
 Language: C, FORTRAN

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DBMS Type: N/A
 Media: Disc, tape
 Interfaces: None
 Data Owner: Leverett, Drew
 Data Owner Org: 45SFS
 Number of NASA Users: 10-50
 Number of Non-NASA Users: 1-10
 Primary Customers: Air Force, NASA, JBOSC
 Description: An ESS designed to control entry, and detect and display intrusions into priority facilities located at CCAFS. The ATESS consists of computer control, enrollment, and monitoring subsystems. Various disturbance detection alarm sensors and video camera equipment provide remote sensing capability, which is instantaneously communicated to processing and monitoring systems.

AF03 Vindicator

Category: 2
 Computer: Server
 Information Category: BRT
 Language: COTS
 DBMS Type: N/A
 Media:
 Interfaces: None
 Data Owner: Leverett, Drew
 Data Owner Org: 45SFS
 Number of NASA Users: 0
 Number of Non-NASA Users: 10-50
 Primary Customers: Air Force and Air Force Contractors
 Description: Electronic Security System

AF05 ArcFM

Category: 1
 Computer: IBM-PC
 Information Category:
 Language: COTS
 DBMS Type: Access
 Media:
 Interfaces: JB11
 Data Owner: Pratten, James
 Data Owner Org: SGS
 Number of NASA Users:

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Number of Non-NASA Users:

Primary Customers:

Description:

ArcFM COTs software is used to generate and maintain the physical electric model for CCAFS. ArcFM electrical data is maintained to support Etap and OpenDNA power analysis and modeling software.

AF06 Badging Identification Capture System

Category: 2
 Computer: JBOSC Server
 Information Category:
 Language: VB 6.0
 DBMS Type: Oracle 9i
 Media:
 Interfaces: None
 Data Owner: Leverett, Drew
 Data Owner Org: 45SFS
 Number of NASA Users: 0
 Number of Non-NASA Users: 10-50
 Primary Customers: Air Force. JBOSC
 Description: Badging ID Capture System collects Personal Data, Photo and Signature and Prints the Air Force Automated Entry Control Card (AECC) Badge used by CCAFS for gate entry and electronic access control to secure areas. BICS data entry is written in MS VB 6.0 and connects to an Oracle 9.2 database. Photo and Signature capture and badge printing is accomplished using the COTS product Datacard ViaNet 5.0. Physical hardware consists of a Windows 2000 WS, badge printer, video capture card, digital camera, and signature capture device.

AF07 SCADA Power Distribution System for CCAFS

Category: 2
 Computer: S/A
 Information Category:
 Language:
 DBMS Type:
 Media:
 Interfaces:
 Data Owner: Murphy, Jim
 Data Owner Org: Air Force
 Number of NASA Users:

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Number of Non-NASA Users:

Primary Customers:

Description:

The SCADA PDS is a fully integrated IT system used to monitor and control the health and functionality of the CCAFS electrical distribution system, inclusive of the three main electrical substations, six switching stations and the ROCC Generator Plant. The system includes a new fiber optic communications system backbone which links all monitored field stations to the new centrally located PDS command center located in CCAFS building 1708 (R&D) room 121. The system operates on redundant, dedicated, self contained, isolated networks.

BA01 Awards Web Database 2 (AWD2)

Category:

1

Computer:

ODIN Server

Information Category:

BRT

Language:

ASP, JAVA Script

DBMS Type:

SQL Server 7

Media:

ODIN

Interfaces:

EDW, NPPS

Data Owner:

Hallum, Julia

Data Owner Org:

NASA

Number of NASA Users:

10-50

Number of Non-NASA Users:

N/A

Primary Customers:

NASA BA-D

Description:

The NASA Awards Web Database provides a web-based interface and database on awards for both civil service and non-civil service employees at Kennedy Space Center (KSC). Displays KSC directorate awards-funding balances, and displays awards data for both KSC civil-service and non-civil service employees. Displays KSC directorate awards funding balances, and KSC civil-service employee awards. Data includes monetary data and time-off data. Intended users are directors, administrative officers, and awards representatives.

BA02 Annual Training and Development Survey (ATDS)

Category:

1

Computer:

ODIN Server

Information Category:

ADM

Language:

Cold Fusion 5

DBMS Type:

SQL Server 7

Media:
Interfaces: EDW
Data Owner: Chance, Steve
Data Owner Org: BA-C
Number of NASA Users: over 50
Number of Non-NASA Users:
Primary Customers: NASA BA-C
Description: The primary function of the ATDS application is to collect data regarding desired training from each KSC NASA employee. Secondary functionality is related to utilization of reports which summarize data entered. An example would be a report which indicates how many people center wide are requesting to attend courses at a college, the total dollar value of these requests, and a breakdown by directorate of all such requests. Once collected, the data can be used in a variety of ways including training budget estimates or other determined usage.

CAD Computer Aided Dispatch 4D

Category: 2
Computer: Server
Information Category: BRT
Language:
DBMS Type:
Media:
Interfaces:
Data Owner: Stevens, Michael B.
Data Owner Org: TA-E2
Number of NASA Users: N/A
Number of Non-NASA Users: 10-50
Primary Customers:
Description:

EX04 NASA Exchange Council KARS Application

Category: 1
Computer: NASA Server
Information Category: ADM
Language: ColdFusion 5
DBMS Type: SQL Server 2000
Media:
Interfaces: None
Data Owner: Wilson, Maria

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Data Owner Org: OP
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: Application for the NASA Exchange Council KARS parks website. Allowing employees to request reservations for KARS parks facilities and services. Administrative portion of the application provides KARS parks personnel with the ability to manage the Reservation requests.

EX05 NASA Exchange Council Store Application

Category: 1
 Computer: NASA Server
 Information Category:
 Language: Coldfusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: None
 Data Owner: Wilson, Maria
 Data Owner Org: OP
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: Application for the NASA Exchange Council Store website. The application allows Store personnel to post product and service information to the Website.

FF10 KSC Electronic Forms Tracking System

Category: 1
 Computer: JBOSC Server
 Information Category: ADM
 Language: Visual Basic
 DBMS Type: Access
 Media: N/A
 Interfaces: None
 Data Owner: Mayers, Jan
 Data Owner Org: TA-E1
 Number of NASA Users: over 50
 Number of Non-NASA Users: over 50
 Primary Customers: NASA/JBOSC
 Description: The Forms Automated Tracking and Reporting System is a custom designed PC application to track the inventory of

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forms, usage, and issuances at the Kennedy Space Center (KSC) Forms Control Center. FF10 also provides a replicated version used for a master index search capability on the KSCFORMS System web site for the NASA Community.

The application was designed to allow entry of information pertaining to a specific form and its orders, receipts and issues. This information can then be easily viewed and tabulated for online and hard copy reports. This application supports NASA (agency-wide), JBOSC and any others who require access to a KSC form.

FF11 KSC Engineering Documentation System (KEDS)

Category:	2
Computer:	JBOSC Server, IBM PC
Information Category:	MSN
Language:	Visual Basic, ASP
DBMS Type:	SQL 7.0
Media:	N/A
Interfaces:	None
Data Owner:	Mayers, Jan
Data Owner Org:	TA-E1
Number of NASA Users:	100-200
Number of Non-NASA Users:	> 2000
Primary Customers:	NASA/JBOSC/SFOC/CAPPS
Description:	The KSC Engineering Documentation System is a web-based application that provides the KSC engineering community with easy access to electronic images of flight and ground support engineering drawings and associated documents. The system allows for paperless distribution of engineering drawings, reducing user trips to document centers and minimizing on-site support at document centers, while allowing data access 24 hours a day, seven days a week. Over 200,000 engineering drawings are currently available online. KEDS drawings can be accessed by all on-site U.S. persons at KSC.

As drawings and documents may be sensitive in nature and/or classified as Administratively Controlled Information (ACI), KEDS complies with ACI directives and guidelines, and the requirements set forth in the International Traffic in Arms Regulations (ITAR) and Export Administration Regulations (EAR). Access to KEDS is limited to U.S. persons (via an access control list) and user authentication is required.

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FF14 Engineering Documentation File Mgmt. (EDFM)

Category:	2
Computer:	JBOSC Server
Information Category:	MSN
Language:	Visual Basic, ASP
DBMS Type:	SQL 7.0
Media:	N/A
Interfaces:	None
Data Owner:	Knight, John
Data Owner Org:	TA-F
Number of NASA Users:	1-10
Number of Non-NASA Users:	100-200
Primary Customers:	NASA/JBOSC
Description:	The EDFM system is the vehicle for electronic release and management of drawings and related documentation under configuration control. This application currently runs on an NT server and Windows NT/98 workstations, using Microsoft SQL Server database to maintain configuration control. Over 14,000 engineering drawings are maintained on a server supporting NASA and JBOSC customers with another 15,000+ drawings residing on a server supporting CAPPS customers.

FK01 Fluids Inventory Management System (FIMS)

Category:	2
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	Disk
Interfaces:	None
Data Owner:	Williams, Curtis
Data Owner Org:	UPC
Number of NASA Users:	1-10
Number of Non-NASA Users:	
Primary Customers:	NASA Information Technology Office, SpaceMark, Inc.
Description:	Used for recording and reporting fluids equipment (tankers, cylinders, and drums) related to vendor deliveries of commodities for each trip, date and quantity delivered.

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GD03 Acquisition Management Subsystem (AMS)

Category:	2
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	Disk
Interfaces:	AC06, Logistics (PC Upload)
Data Owner:	Kiss, Mary
Data Owner Org:	OP-AM
Number of NASA Users:	1-10
Number of Non-NASA Users:	
Primary Customers:	JBOSC, NASA Procurement Office
Description:	Tracks purchase orders, materiel requisitions, and contracts issued by the KSC NASA procurement office. Grants and intergovernmental purchases are referred to as procurements unless specified otherwise. The basic relationship for contract reporting is between the contract number and the materiel/purchase request number. The system processes contracts, materiel/purchase requests, purchase orders, blanket purchase agreements, orders under contract, grants and contract modifications (new work, change orders, supplemental agreements, and administrative changes).

GG02 IFMP User Management System

Category:	1
Computer:	Server
Information Category:	ADM
Language:	Visual Basic 6.0
DBMS Type:	SQL 7.0
Media:	Client Server
Interfaces:	None
Data Owner:	Clarke, Deborah
Data Owner Org:	GG-A
Number of NASA Users:	8
Number of Non-NASA Users:	
Primary Customers:	Brian Bookhart, IT-D3 Christa Casleton, GG-B-B2
Description:	The Integrated Enterprise Management Program (IEMP) User Management System (UMS), known as IEMP-UMS, is an application designed to provide the system administrators and data owners of the IFMP modules or applications a more efficient means to manage the access, module assignments, and roles of NASA Users. The IEMP-UMS application

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provides an online means for viewing, analyzing, and modifying different aspects of the Users' accounts, and provides reports electronically.

GG04 IFMP SAP Core Financials

Category:	1
Computer:	Sun 10K
Information Category:	BRT
Language:	ABAP
DBMS Type:	Oracle
Media:	N/A
Interfaces:	AC07, EDW
Data Owner:	Lenck, Sam
Data Owner Org:	GG-A
Number of NASA Users:	200-300
Number of Non-NASA Users:	
Primary Customers:	NASA GG
Description:	Agency Core Financial Management system. JBOSC is responsible for providing System Administrative, and Interface support for the Core Financial module of SAP.

GG05 Core Financial Business Warehouse

Category:	1
Computer:	Sun 10K
Information Category:	BRT
Language:	ABAP
DBMS Type:	Oracle
Media:	N/A
Interfaces:	SAP
Data Owner:	Lenck, Sam
Data Owner Org:	GG-A
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA GG
Description:	Business Warehouse for Core Financial provides a means for reporting from Core Financial data. JBOSC is responsible for providing System Administrative support.

GG06 IFMP Travel Manager

Category:	1
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Computer:	Sun 10K
Information Category:	BRT
Language:	COTS
DBMS Type:	Oracle
Media:	N/A
Interfaces:	N/A
Data Owner:	Lenck, Sam
Data Owner Org:	GG-A
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA GG
Description:	Travel Manager provides an electronic means for creating, approving and distributing travel documents. JBOSC is responsible for providing System Administrative support for Travel Manager. JBOSC is not responsible for creating and deleting new accounts for Travel Manager.

GG07 Federal Personnel and Payroll System

Category:	1
Computer:	Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	
Interfaces:	
Data Owner:	Lenck, Sam
Data Owner Org:	GG-A
Number of NASA Users:	
Number of Non-NASA Users:	N/A
Primary Customers:	NASA
Description:	FPPS is the Federal Personnel Payroll System that NASA selected to implement as the NASA Agency Person and Payroll System also, JBOSC is responsible for providing some system administrative support for FPPS. JBOSC does not have the responsibility for creating new accounts and deleting existing accounts within FPPS.

GG08 KSC Travel Office Application

Category:	1
Computer:	
Information Category:	
Language:	

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DBMS Type:
Media:
Interfaces:
Data Owner: Gillard, Sheree
Data Owner Org: GG-B
Number of NASA Users:
Number of Non-NASA Users:
Primary Customers:
Description: The application will generate paperless travel notices to NASA travelers. The process will automatically send e-mail notices to employees who have outstanding vouchers, will randomly select vouchers for travel audit and e-mail the request to provide voucher receipts to the travel office. Will also provide a database for which reports and metric can be obtained on travel processes.

GG09 Process Control System

Category: 1
Computer: JBOSC Server
Information Category:
Language:
DBMS Type:
Media:
Interfaces:
Data Owner: Casleton, Christa
Data Owner Org: NASA GG
Number of NASA Users:
Number of Non-NASA Users:
Primary Customers:
Description: The scope of the PCS application is to develop an on-line application that GG management can use to monitor the health of the organization by analyzing and manipulating data to provide useful management metrics and reports on the organization's key processes: Travel, 533, PR and Labor.

HM03 Goal Performance Evaluation System (GPES)

Category: 1
Computer: ODIN Server
Information Category: BRT
Language: ASP
DBMS Type: SQL 7.0
Media: Web

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Interfaces: TA06
Data Owner: Kirkpatrick, Cindy
Data Owner Org: BA-D
Number of NASA Users: 1800-2000
Number of Non-NASA Users: 0
Primary Customers: NASA
Description: The Goal Performance Evaluation System (GPES) focuses on individual performance and the management of employee actions. GPES was developed in response to the NASA Strategic Management Handbook which identifies the "Center Implementation Plan as the communication tool to enable the Center's customers to see that their requirements are being addressed and to ensure that employees understand their contribution to the highest level strategies and objectives." GPES was developed to successfully accomplish these objectives and maximize the involvement of every employee in the future direction of the Agency. All KSC NASA personnel use this system.

GPES is comprised of the following modules:

Performance Planning, where supervisors define the Mission Objectives and supporting Strategies for each of their employees, from within or outside the Directorate's Business Objectives and Agreements (BOAs). Individual employees' Job Specifics and Action Plans can also be identified.

Performance Evaluation, for mid-term and annual Performance Appraisal processes, allows the appraisals to be completed and assessed on-line. An employee's individual rating for each objective can be tracked and summarized. The status of each Performance Appraisal is also tracked.

Safety and Health First (Voluntary Protection Program, VPP), tracks safety inspections, meetings, Job Hazard Analysis (JHA), miscellaneous activities, and open hazard issues. Reports are available to allow for supervisory monitoring of their safety activities.

Public Outreach, where employees enter activities pertaining to their contributions and assistance with outside organizations and affiliations. Data collected includes presentations, interviews, and speeches; education activities; external exhibits; launch and landing support activities; KSC tours/escorts (non-launch and -landing); new customer outreach; volunteer support for KSC special events; community service; and other public outreach activities.

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IM03 KSC Records Management System

Category:	2
Computer:	JBOSC Server
Information Category:	ADM
Language:	Visual Basic 3.0
DBMS Type:	NT
Media:	N/A
Interfaces:	None
Data Owner:	Justice, Jan
Data Owner Org:	IT-B
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA Only
Description:	The KSC Records Retirement Database System supports dual input by NASA/KSC RSA Manager and RSA Warehouse contractor personnel in a windows application. It tracks the retired records (documents) as they are stored in the warehouse and moved off-site to the Federal Warehouse.

IM08 Automatic Distribution Service System (ADSS)

Category:	2
Computer:	IBM-PC
Information Category:	BRT
Language:	Clipper 5.2
DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Mayers, Jan
Data Owner Org:	TA-E1
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The Automated Distribution Services System collects and stores the necessary data for automated mailing labels. Used to support KSC and CCAFS personnel.

IM10 Retired NASA Mailing Labels System

Category:	2
Computer:	IBM-PC
Information Category:	BRT
Language:	Clipper 5.2

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DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Thayer, Laura
Data Owner Org:	BA-D
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The Retired NASA Mailing Labels System collects and stores all the necessary data for producing mail labels for all retired NASA personnel.

IM11 Miscellaneous Mailing Labels

Category:	2
Computer:	IBM-PC
Information Category:	BRT
Language:	Clipper 5.2
DBMS Type:	S/A
Media:	Disk
Interfaces:	None
Data Owner:	Mayers, Jan
Data Owner Org:	TA-E1
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The Miscellaneous Mailing Labels System collects and stores the necessary data for producing miscellaneous mailing labels. Used to support KSC and CCAFS personnel.

IM12 One Label System

Category:	2
Computer:	IBM-PC
Information Category:	BRT
Language:	Clipper 5.2
DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Mayers, Jan
Data Owner Org:	TA-E1
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC, Atlantic Technical Services (ATS)

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Description: The One Label Mail system is used to create and store one mail label as desired. Used to support KSC and CCAFS personnel.

IM14 Invite for Bids Mailing Labels

Category: 2
 Computer: IBM-PC
 Information Category: BRT
 Language: Clipper 5.2
 DBMS Type: S/A
 Media: Disk
 Interfaces: None
 Data Owner: Mayers, Jan
 Data Owner Org: TA-E1
 Number of NASA Users: 1-10
 Number of Non-NASA Users: 1-10
 Primary Customers: NASA/JBOSC
 Description: The system provides a means to collect and store data for the Invitation for Bids mail labels. Used to support NASA procurement.

IM35 Fleet Management Tracking System (FMTS)

Category: 2
 Computer: JBOSC Server
 Information Category: ADM
 Language: Visual Basic 3.0
 DBMS Type: N/A
 Media: N/A
 Interfaces: None
 Data Owner: Eberhardt, Denise
 Data Owner Org: CMT
 Number of NASA Users: 1-10
 Number of Non-NASA Users: 1-10
 Primary Customers: NASA/JBOSC
 Description: This system is a Windows based application which is used to record the data from the Fleet Management Control area. It is a rewrite of an existing Dbase user written application.

IM76 Heavy Equipment Log

Category: 2

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Computer:	JBOSC Server
Information Category:	BRT
Language:	Visual Basic 3.0
DBMS Type:	Access
Media:	Disk
Interfaces:	5 (Winbat/Sheridan Data Widgets/Designer Widgets/Calendar Widgets and Crystal Reports)
Data Owner:	Denis, Rebecca
Data Owner Org:	TA-E1
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	JBOSC only application - for reference only
Description:	Heavy Equipment System is an application designed for logging and tracking of procurement information for heavy equipment parts and supplies. The user enters basic information relating to the equipment/parts: date ordered, date received, date issued, cost, part number, requester, purchase request number and BPA number. Used by JBOSC to maintain equipment in support of NASA and AF projects.

IM78 KSC Locator Organization Labels

Category:	2
Computer:	IBM-PC
Information Category:	BRT
Language:	Visual Basic 3.0
DBMS Type:	S/A
Media:	N/A
Interfaces:	None
Data Owner:	Mayers, Jan
Data Owner Org:	TA-E1
Number of NASA Users:	10-50
Number of Non-NASA Users:	over 50
Primary Customers:	NASA/JBOSC
Description:	This system is used to print organization labels.

IT01 EDW - Self Service Management Tool (SSMT)

Category:	1
Computer:	JBOSC Server
Information Category:	ADM
Language:	C#.NET
DBMS Type:	SQL 7.0

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Media:
Interfaces: FSUA, EDW, PASS, RD00, RD02
Data Owner: Bierman, Tracy
Data Owner Org: IT-C1
Number of NASA Users: 1800-2000
Number of Non-NASA Users: over 50
Primary Customers: NASA IT
Description: Phase 1 of the SSMT Project has been developed in an effort to consolidate management of non-sensitive personnel information, improve the quality of data, and to empower employees that log in to the KSC domain with the ability to correct their own information. Phase 1 also includes an enhanced search capability to find KSC employees by first name, last name, mail code, supervisor, and department.

This initial release allows employees to update their own business-related data with approval by the KSC Locator staff. Please allow three to five days to propagate other systems with your updated data. In future releases, the employee's supervisor, the KSC Locator, and/or the Designated Facility Utilization Manager is included in the approval process and other systems are updated more frequently.

IT03 NASA Correspondence Templates

Category: 2
Computer:
Information Category:
Language: VBA
DBMS Type:
Media:
Interfaces:
Data Owner: Brown, Laurette
Data Owner Org: IT-D3-A
Number of NASA Users:
Number of Non-NASA Users:
Primary Customers:
Description: This application was developed to facilitate the formatting and creation of the most commonly used types of National Aeronautics and Space Administration (NASA) correspondence and travel forms. As part of this application, an Access database file is created. This file allows the user to store and recall information for populating common fields used in the creation of correspondence and travel forms. The application only displays the property pages necessary to

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generate the selected type of correspondence.

IT04 Combined Federal Campaign Application

Category: 1
 Computer: ODIN Server
 Information Category: BRT
 Language: Cold Fusion 5
 DBMS Type: SQL Server 7
 Media:
 Interfaces: EDW
 Data Owner: Brown, Laurette
 Data Owner Org: IT-D3-A
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA IT
 Description: Annual event. Application captures NASA KSC employees Combined Federal Campaign donations. The application retrieves X.500 identification to include SSN and transmits this information via SSL Certificate.

IT05 Environmental and Energy Awareness Week (EEAW)

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: FORTRAN
 DBMS Type:
 Media:
 Interfaces:
 Data Owner: Naylor, Barbara
 Data Owner Org: TA-C3
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA TA-C3
 Description: Application used for the Annual Environmental and Energy Awareness Week. <http://eeaw.ksc.nasa.gov>

IT06 Education Calendar Application

Category: 1
 Computer: NASA Server
 Information Category: PUB

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Language: Cold Fusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: None
 Data Owner: Alfonso, Berta
 Data Owner Org: XA-D1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: Application used on the Education Website.

IT08 KSC NASA Holiday Dinner Application

Category: 1
 Computer: ODIN Server
 Information Category: ADM
 Language: HTML
 DBMS Type: None
 Media:
 Interfaces: None
 Data Owner: Brown, Laurette
 Data Owner Org: IT-D3-A
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: Employees to print dinner ticket.

IT09 Equipment Tracking System Application

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: Cold Fusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: EDW
 Data Owner: Rogers, Jacob
 Data Owner Org: TA-B1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA IT
 Description: Equipment Tracking Application for use by the NASA IT Directorate.

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IT11 KSC Picnic Application

Category: 1
 Computer: ODIN Server
 Information Category: ADM
 Language: ColdFusion 5
 DBMS Type: SQL Server 7
 Media:
 Interfaces: None
 Data Owner: Brown, Laurie
 Data Owner Org: NASA IT
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: Consists of various forms for NASA people to sign up for Picnic events and to gather volunteer information. Includes reports.

IT13 Web Portal Content Management System

Category: 1
 Computer:
 Information Category:
 Language:
 DBMS Type:
 Media:
 Interfaces:
 Data Owner: Dalton, Michael
 Data Owner Org: IT-D
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: The Portal Content Management System is designed as a Web-based application to control and automate the following tasks for the KSC Web Portal:

1. Editing, building and publishing the main internal home page of the portal (HTML)
2. Editing and publishing all of the various feeds for the portal (RDF/XML)

JB01 Fire PGMS CCAS/KSC Fire Rescue

Category: 2
 Computer: JBOSC Server

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Information Category: ADM
 Language: COTS
 DBMS Type: NT
 Media: CD/Disk
 Interfaces: None
 Data Owner: Stevens, Michael B.
 Data Owner Org: TA-E2
 Number of NASA Users: 1-10
 Number of Non-NASA Users: 1-10
 Primary Customers: SGS Fire Services, NASA Fire
 Description: SGS Fire Programs (JB01) serves as the primary database management system for all KSC/CCAFS fire rescue responses (NFIRS). This program also has the capability to track inventory, training, and personnel. The system operates 7-days/week, 24-hours/day.

JB04 Training Resource Automation Center (TRAC)

Category: 2
 Computer: Server
 Information Category: BRT
 Language: Visual Basic 6.0
 DBMS Type: Access97
 Media: Server
 Interfaces: None
 Data Owner: King, Jeff
 Data Owner Org: JBOSC Security Services
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: JBOSC Security Services
 Description: TRAC is a Microsoft VB 6 application with an Access 97 database that is used to track employee data and training/certification requirements for SGS Security Services personnel within the Protective Services Directorate. Maintaining this data documents that Security Services employees have been properly trained and certified to complete the types of tasks they are assigned.

JB06 Personnel Access Security System (PASS)

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: PL/SQL

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DBMS Type: Oracle 9i
Media: Disk; Tape Backup
Interfaces: RD00, X500, EDW, ATHS, PM50
Data Owner: Perry, Shelia
Data Owner Org: TA-G
Number of NASA Users: 10-50
Number of Non-NASA Users: 1-10
Primary Customers: NASA, all KSC contractors and subcontractors
Description: PASS serves as the primary database management system for all KSC security credentials and contains security information and credential issuance history for every individual working at or visiting KSC. Area authorizations/de-authorizations for controlled areas are entered in PASS and distributed to two access control systems, ACIDS II and LOACS, via the ATHS. These users enter data, query the database, and/or authorize/create area access credentials. The system operates seven days per week, 24 hours per day.

JB11 Geographical Information System (GIS)

Category: 1
Computer: JBOSC Server
Information Category: BRT
Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
DBMS Type: Oracle 9i, ArcSDE
Media:
Interfaces: JB31 - FIC, TA06 - EDW, JB34 - EPR, JB117 - Map911, TA23 - SMV, JB82, JB83, JB84, TA20, TA22, TA23, TA24, TA25, TA26, TA27, TA28, TA29
Data Owner: Smith, Leroy
Data Owner Org: TA-F
Number of NASA Users: over 50
Number of Non-NASA Users: over 50
Primary Customers: NASA, AF
Description: A Geographic Information System (GIS) is an integrated system of computer hardware, and software, linking topographic, demographic, utility, facility, image and other resource data that is geographically referenced. The design of the geographical information system is based on the concept of a geodatabase that provides the community access to mapping data for the Kennedy Space Center (KSC), Cape Canaveral Air Force Station (CCAFS), and the Florida (FL) Annexes. GIS integrates existing data into the geodatabase through a process of validation and conversion while new

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geographic data is being collected through field surveys. The organizations currently responsible for system attributes retain responsibility for updating and maintaining those attributes in the GIS database. GIS users access data from the geodatabase via PC-based, web-enabled applications through the intranet/internet, or by using direct network access to perform queries utilizing client software.

GIS WEB APPLICATIONS:

- Spaceport Map Viewer allows easy access to view maps through a thin client interface.
- Web Maps is a thin client interface that allows the user to create customized maps using drawing tools and text capabilities. The application has a data query builder, along with select features.
- Comprehensive Master Planning (CMP) is a geographic information analysis application. CMP allows users to review the locations of features such as buildings, roads, utilities, and land features.
- Real Property Information System (RPIS) is an application designed for the Real Property Analyst with dynamic GIS capabilities. RPIS allows real property analysis and assessments to be performed. Users can interactively query facility information, and directly link to the Facility Information Center for editing of facility attribute information.
- Geodetic Control is a thin client interface that provides a means to locate, review and evaluate published geodetic control monumentation information for the land surveying projects.

GIS STAND ALONE APPLICATIONS

- GIS Road Closure Application provides mapping with ESRI ArcView, customized to meet the needs of the user. The GIS Road Closure Application displays aerial photographs with geographic features that collectively describe the traffic control of the Kennedy Space Center (KSC) and Cape Canaveral Air Force Station (CCAFS) region. The GIS Road Closure Application maps and aerial photographs help the User to visualize and communicate where the appropriate resources and equipment need to be located in order to close roads on a large/small scale, to provide security and safety where needed.

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- GIS Locator Application provides mapping with ESRI ArcView, customized to meet the needs of the user. The GIS Locator Application is a stand-alone application that displays specific maps for users wanting to go from "here" to "there". The application allows user to search for a building, employee or phone number, and display the information graphically. The application also incorporates aerial photo locations.

05/23/06 Per Nancy Gamble, new description:

'A Geographic Information System (GIS) is an integrated system of computer hardware, and software, linking topographic, demographic, utility, facility, image and other resource data that is geographically referenced. The design of the geographical information system is based on the concept of a geodatabase that provides the community access to mapping data for the Kennedy Space Center (KSC), Cape Canaveral Air Force Station (CCAFS), and the Florida (FL) Annexes. GIS integrates existing data into the geodatabase through a process of validation and conversion while new geographic data is being collected through field surveys. GIS users access data from the geodatabase via PC-based, web-enabled applications through the intranet/internet, or by using direct network access to perform queries utilizing client software ie ArcGIS.

JB116 IIMS - Maximo (KIMS)

Category:	2
Computer:	JBOSC Server
Information Category:	BRT
Language:	
DBMS Type:	
Media:	
Interfaces:	
Data Owner:	Cunio, Robert
Data Owner Org:	SGS
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	JBOSC
Description:	A user friendly, flexible, integrated inventory management system which provides support to the Shuttle Program and is specifically designed to support a multi-account, multi-user, and multi-site environment. It supports self-sufficient contractors, and provides the capability to manage and support independent logistics operations. The application

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includes three optional subsystems: Procurement, Provisioning/Replenishment, and Transportation. These subsystems of Maximo provides the user with functions that support the establishment and maintenance inventory items as well as receiving, quality assurance, warehousing, storage location, and inventory. The items that are currently in the GFE storeroom are considered Government owned items.

JB117 Map911 Application

Category:	1
Computer:	
Information Category:	
Language:	
DBMS Type:	
Media:	
Interfaces:	JB11 - GIS
Data Owner:	Smith, Leroy
Data Owner Org:	TA-F
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	
Description:	<p>Map911 is a standalone application of the Joint Communication Control Center (JCC) for 911 emergency calls in Cape Canaveral Spaceport. This application is designed to display location of a selected building and its associated planimetric data. The associated planimetric data includes the following:</p> <ol style="list-style-type: none"> 1) Roads 2) Buildings 3) Fire Hydrants 4) Natural Gas Lines 5) Emergency Response Grid

JB144 GIS - Spill Prevention and Control Sub-Application

Category:	1
Computer:	JBOSC Server
Information Category:	
Language:	ESRI (COTS), ColdFusion, HTML, Javascript, JAVA SVG, XML
DBMS Type:	Oracle 9i, ArcSDE
Media:	
Interfaces:	JB11, TA23

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Data Owner: Brannigan, Jewel
 Data Owner Org: CHS
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers:
 Description: The objective of the Spill Prevention Sub-Application is to establish NASA compliance with the requirements of 40 CFR Part 112, Oil Pollution Prevention and Response, administered by the Environmental Protection Agency (EPA). The plan addresses prevention of the discharge of oil into or upon waters of the U.S. and applies to petroleum as well as animal and vegetable oils in all forms including gasoline, diesel fuel, hydraulic fluid, grease, sludge, synthetic oil, cooking oil, etc.

JB15 Web Emergency Operations Center (Web EOC)

Category: 2
 Computer: JBOSC Server
 Information Category: MSN
 Language: Tango V5.0
 DBMS Type: SQL Server 2000
 Media: N/A
 Interfaces: None
 Data Owner: Stevens, Michael B.
 Data Owner Org: TA-E2
 Number of NASA Users: 10-50
 Number of Non-NASA Users: over 50
 Primary Customers: Emergency Preparedness; NASA-TA-E2
 Description: The Web EOC is a web-based emergency management communications system used to provide real-time information sharing and help to facilitate decision-making in emergency situations. This is a customized COTS application designed to meet the unique requirements of KSC. Web EOC uses a standard Web browser such as Internet Explorer or Netscape. Supports KSC and CCAFS organizations.

JB16 Emergency 911/Caller ID ANI/ALI (E911)

Category: 2
 Computer: JBOSC Server
 Information Category: MSN
 Language: 4th Dimension
 DBMS Type: N/A

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Media: Disk; Tape
 Interfaces: Locator, Fire Alarms, FIDS, Multivu Video Surveillance, Fire Station Paging, Radio, and Phone 911, Phone Recording, Marquee
 Data Owner: Stevens, Michael B.
 Data Owner Org: TA-E2
 Number of NASA Users: 1-10
 Number of Non-NASA Users: 10-50
 Primary Customers: Emergency Dispatch; NASA-TA-E2
 Description: The E911 Emergency 911 Caller ID ANI/ALI is a GUI telephony PC interface to emergency management phone communications systems. Special administrative phone lines and 911 phone lines link to 9 dispatcher positions from a central hub phone switch. The system is used to provide real-time caller ID and caller location information.

JB27 Technical Training Management System

Category: 2
 Computer: JBOSC Server
 Information Category: BRT
 Language: ASP
 DBMS Type: SQL 2000
 Media: Web
 Interfaces: None
 Data Owner: Norman, James
 Data Owner Org: BA-C
 Number of NASA Users: 10-50
 Number of Non-NASA Users: over 50
 Primary Customers: JBOSC Technical Training
 Description: The Technical Training Management System is an electronic web-based system that allows JBOSC technical training personnel to enter and track technical courses, instructors, scheduled classes, and classroom facilities. The system also allows JBOSC training coordinators to schedule personnel for classes and enables instructors to produce class rosters. JBOSC personnel completing classes are tracked and manually entered in the PM50 KSC Training Certification Records System (TCRS). The TTMS also tracks and regularly reports no-show personnel to the training coordinators and the director of JBOSC Information Management. Additional reports allow technical training personnel and training coordinators to manage their activities and reporting requirements in a timely manner.

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JB49 The BIG Access Database (BAD)

Category:	2
Computer:	JBOSC Server
Information Category:	BRT
Language:	Access
DBMS Type:	Access
Media:	
Interfaces:	None
Data Owner:	Callier, Diane
Data Owner Org:	TA-C3
Number of NASA Users:	0
Number of Non-NASA Users:	30
Primary Customers:	CHS
Description:	Supports Waste Management data management and reporting.

JB50 Health & Environmental Resource System (HERS)

Category:	2
Computer:	Server
Information Category:	BRT
Language:	SQL, Access
DBMS Type:	Access
Media:	
Interfaces:	MSDS, AIMS
Data Owner:	Cardinale, Michael
Data Owner Org:	TA-C2
Number of NASA Users:	0
Number of Non-NASA Users:	100
Primary Customers:	CHS
Description:	Supports Environmental Health and Services data management and reporting.

JB51 Health Unit Management System (HUMS)

Category:	2
Computer:	Server
Information Category:	BRT
Language:	SQL, Access
DBMS Type:	Access
Media:	
Interfaces:	PM50
Data Owner:	Tipton, Dr. David
Data Owner Org:	TA-C2

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Number of NASA Users: 0
 Number of Non-NASA Users: over 50
 Primary Customers: CHS
 Description: Supports Medical data management and reporting.

JB82 GIS - Data Maintenance Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB11, TA23
 Data Owner: Lanthorne, Donald
 Data Owner Org: SGS
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: SGS GIS
 Description: This is a web based application which allows users to report any issues they have with the GIS System. It further allows the GIS staff to manage these issues.

JB83 GIS - JBOSC Environmental Management Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB11, TA23
 Data Owner: Goetzfried, Andreas
 Data Owner Org: SGS
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: JBOSC Environmental
 Description: This GIS Application allows JBOSC to display JBOSC specific environmental information (i.e. storage tanks) under JBOSC control.

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JB84 GIS - Security Incident Tracking Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB11, TA23
 Data Owner: Coleman, Michael
 Data Owner Org: SGS
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA Security
 Description: The GIS application is used to collect, store, modify, analyze and display geographic location and associated attribute data for each security incident.

JP01 CCSMO CCR Database

Category: 2
 Computer: S/A
 Information Category: BRT
 Language: Visual Basic 6.0
 DBMS Type: Access 2k
 Media: N/A
 Interfaces: None
 Data Owner: Melin, Doug
 Data Owner Org: 45 CONS
 Number of NASA Users: 10-50
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: The Cape Canaveral Spaceport Management Office (CCSMO) Contract Change Request (CCR) database provides a desktop interface and database to record and track CCR activities in the Contracts Office of CCSMO. The database includes monetary and vendor data. The primary users of the system are Contracts, Finance, Engineering, and administrative personnel in CCSMO. All users are located in the Hangar I Annex, CCAFS.

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MD00 Configuration Management Data System (CMDS)

Category: 1
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL
 DBMS Type: ADABAS
 Media: Disk
 Interfaces: NDM to SPDMS, Sensor Utilization (SUT), AUTOGOSS manual transfer, PC Downloads to ANALEX and SFOC, FTP transfer to/from PDMS. USA (2), BOEING, OMEU on WEB, SYSDIC

 Data Owner: Barcon, Eric
 Data Owner Org: PH-B2
 Number of NASA Users: 50-100
 Number of Non-NASA Users:
 Primary Customers: JBOSC, SFOC, PGO, other contractors/subcontractors, NASA Shuttle Office

 Description: Supports contractors and NASA in Engineering Document Release, Engineering Change Processing, and equipment/system Configuration Identification Documents (CID). Those recorded on the system are indexed to specific equipment and systems that are identified in the document itself. All document revisions are maintained as well as Engineering Orders (modifications) and Engineering Instructions to support the Engineering Orders. There are three major subsystems. Document Release Subsystem: All new or revised engineering documentation is authorized and released officially by a signed Document Release Authorization (DRA). Some typical documents indexed and identified are electrical schematics, cable assemblies, deviation waivers, operation and maintenance manuals, etc. Some of the elements recorded when a new document or revision is released are the authorizing engineer, authorizing organization, document location, total sheets, sheet size, and equipment item. Configuration Identification Subsystem: Three files of equipment system relationships are maintained. Baseline System Codes identify systems such as Launch Operations Area (LOA), Vehicle Assembly Area (VAA), and Hypergol Maintenance Area (HMA), but this level of identification does not specify equipment items. Subordinate to the baselines are Work Unit Codes (WUC) and Program Model Numbers (PMA) which identify equipment types and specific equipment items. All of these files are indexed to documents. Change Processing Subsystem: Contractors track Engineering Support Requests (ESR) for design engineering

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activities and Configuration Control Board actions. Engineering assessments, CCB directives, and Support Requests are also indexed to the other subsystems.

MD21 Asbestos Management Information System

Category:	2
Computer:	JBOSC Server
Information Category:	ADM
Language:	VB/Access
DBMS Type:	SQL 2000
Media:	Disk
Interfaces:	None
Data Owner:	Cardinale, Michael
Data Owner Org:	TA-C2
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The Asbestos Mangement Information Sytsem (AMIS) is a PC Visual Basic application used to track inspections and samples for the Environmental Health Department, as they proceed through the facility asbestos inspection process. This system maintains records for facilities, inspectors, and laboratory results. This application generates Active Server Pages (ASP) to allow all KSC personnel to view Facility Asbestos Inspection results. Photographs have been integrated into the system as well as Internet availability.

OP03 Purchasing Account System

Category:	2
Computer:	Server
Information Category:	BRT
Language:	Clipper
DBMS Type:	Dbase
Media:	
Interfaces:	
Data Owner:	Rochester, Laura
Data Owner Org:	NASA OP-OS-JP
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	JBOSC Procurement
Description:	The Purchasing Accounting System was the system used to create and monitor Purchase Requests and Purchase Orders

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plus track dollar amounts and delivery dates. This function is now performed by MAXIMO. The JBOSC Procurement Organization now uses OP03 to respond to inquiries (including NASA inquiries) on historical data.

OP06 EXPO Exhibitor Registration Application

Category:	1
Computer:	NASA Server
Information Category:	PUB
Language:	Cold Fusion 5
DBMS Type:	SQL Server 2000
Media:	
Interfaces:	EDW
Data Owner:	Marsh, Gloria
Data Owner Org:	OP-CIAO
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA OP
Description:	Exhibitor Registration for this Annual Trade show sponsored by NASA/KSC Small Business Council, 45th Space Wing and Canaveral Port Authority.

PA01 Public Affairs Metrics Tracking

Category:	2
Computer:	JBOSC Server
Information Category:	BRT
Language:	Visual Basic 6
DBMS Type:	Access 97
Media:	N/A
Interfaces:	None
Data Owner:	Malone, Lisa
Data Owner Org:	XA
Number of NASA Users:	1-10
Number of Non-NASA Users:	N/A
Primary Customers:	NASA Public Affairs
Description:	This Public Affairs Metric Tracking System is the collection point for the Public Affairs Branch data to track and report information on metrics.

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PA04 Public Affairs Car Pass Tracking

Category: 2
 Computer: JBOSC Server
 Information Category: ADM
 Language: Visual Basic 6.0
 DBMS Type: Access 97
 Media: N/A
 Interfaces: None
 Data Owner: Malone, Lisa
 Data Owner Org: XA
 Number of NASA Users: 1-10
 Number of Non-NASA Users: 1-10
 Primary Customers: NASA Public Affairs
 Description: This Public Affairs Car Pass Tracking System, PA04 is a collection point for the Public Affairs Branch to track and report information on car passes requested and granted at Kennedy Space Center.

PM50 KSC Training & Certification Record System

Category: 1
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL
 DBMS Type: ADABAS
 Media: Disk, Tape (6250 BPI)
 Interfaces: RD00, NPPS, PASS, USA TTSS, Boeing Training Server, JBOSC BOC for JBOSC and L-M Comprehensive Health Systems (2) AirForce (AJJ) and EDW (2)
 Data Owner: Norman, James
 Data Owner Org: BA-C
 Number of NASA Users: 10-50
 Number of Non-NASA Users: over 50
 Primary Customers: JBOSC, SFOC, Boeing, NASA
 Description: The PM50 system is an Online data base system to provide the user with immediate update and retrieval capabilities. This is necessary for maintaining current training and certification status information on personnel who directly support shuttle operations. Inputs are made through file transfers and online screens which allow the users to add, modify, delete, and query records. Batch reports are generated by the user on request. Query programs are available to give the user visibility to database files.

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PM93 KSC Personnel Unique System

Category: 2
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL
 DBMS Type: PNATA
 Media: Disk
 Interfaces: AC02
 Data Owner: Thayer, Laura
 Data Owner Org: BA-D
 Number of NASA Users: 1-10
 Number of Non-NASA Users:
 Primary Customers: NASA Personnel Office
 Description: Functions and features for personnel that are unique to KSC and not part of AC02 (NPPS).

RD00 SPS Common Modules

Category: 2
 Computer: IBM Mainframe
 Information Category: BRT
 Language: NATURAL
 DBMS Type: PNATA
 Media: Disk, Tape (1600 BPI)
 Interfaces: RC02, RD05, PM50, PDMS, X.500, PASS, FF03, NPPS,
 Data extract for BOEING and USA,
 Data Owner: Bartley, Clinton
 Data Owner Org: IT-B
 Number of NASA Users: 1-10
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: This application transfers PASS data to RD00 weekly. It deletes and recreates files for transfer to other systems. Provides common modular computer program support to all Safety and Protective Services systems, and employee information and data store for PM50. It contains standard log-on control and menu handling, a central table update that allows user independence, audit trail features to ensure file integrity and assist in problem solving.

RD01 Key Core Code Tracking System

Category: 2

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Computer:	IBM-PC
Information Category:	ADM
Language:	Clipper
DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Rhode, Linda A.
Data Owner Org:	
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA (Linda Maust)/JBOSC
Description:	The Key Code Core Tracking System is used by Security Services to track the Locksmith key code core combinations for all locks at KSC and NASA controlled buildings. The PC stand-alone system allows the locksmith to retrieve data on existing combinations and generate new cores by using the pinning chart processing. Use is restricted to the Locksmith, but benefits all KSC organizations.

RD02 NASA Personnel Security Information

Category:	2
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	Disk
Interfaces:	PM93 (NPPS) - NASA PERSONNEL
Data Owner:	Brophy, JoAnn
Data Owner Org:	TA-E2
Number of NASA Users:	1-10
Number of Non-NASA Users:	
Primary Customers:	NASA Security Office
Description:	Contains records of security information on KSC-NASA employees and selected data elements from the personnel files. Record keeping security investigative information is updated to the master file monthly.

RD06 Security Services Case Tracking

Category:	2
Computer:	IBM-PC
Information Category:	BRT
Language:	Clipper

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DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Klotz, Patrick
Data Owner Org:	TA-E2
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The Security Services Case Tracking System is used to track case investigations and related information for JBOSC Security. It contains processes to add, modify and delete records as well as reporting capabilities and stand-alone file maintenance utilities. Application is used by JBOSC for reporting to NASA.

RD08 Personnel Investigation Monitoring System (PIMS)

Category:	2
Computer:	JBOSC Server
Information Category:	BRT
Language:	Clipper
DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Klotz, Patrick
Data Owner Org:	TA-E2
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The RD08 Personnel Investigation System is an application which automate the personnel monitoring functions of the JBOSC Security Organization. The system tracks employee data and any open or closed cases. The system allows the user to track monitored cases on a scheduled basis, as well a non-monitored cases. The system also tracks gun club history for each employee. This application resides on a closed network environment with the JBOSC Security work area.

RD29 Security/Fire Outage Tracking System

Category:	2
Computer:	JBOSC Server
Information Category:	ADM
Language:	Visual Basic 6.0

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DBMS Type:
 Media: Disk
 Interfaces: None
 Data Owner: Stevens, Michael B.
 Data Owner Org: TA-E2
 Number of NASA Users: 10-50
 Number of Non-NASA Users: 1-10
 Primary Customers: NASA/JBOSC
 Description: The Security/Fire Outage Tracking System is a PC application designed to track the fire and security system activity, to include trouble tickets, PMI's, OMI's, outages, etc., thus providing PSCC Console operators with real time information and awareness. Provides real-time fire and security system status by location to the operator for relay to responding Fire and Security Emergency personnel. Primary users are located at the JCCC.

RD30 Security Services Incident Reporting

Category: 2
 Computer: IBM-PC
 Information Category: BRT
 Language: Visual Basic
 DBMS Type:
 Media: Tape (6250 BPI)
 Interfaces: None
 Data Owner: Klotz, Patrick
 Data Owner Org: TA-E2
 Number of NASA Users: 1-10
 Number of Non-NASA Users: 1-10
 Primary Customers: NASA/JBOSC
 Description: The RD30 Security Services Incident Reporting system automates the tracking of incident reports created by the JBOSC security officers. The system also tracks Spot Checks that are performed by the security office. Each morning, information from the previous day is keyed in. This data is grouped into a Synopsis report that is used by NASA. This data is copied to NASA electronically. This application resides on a user's workstation in the JBOSC security office and is shared through Windows 95 with other users in the office. The application is also installed on the NASA security server. The application databases are copied to the NASA security office server on a daily basis. This system is used by NASA and JBOSC Security to support NASA and the Air Force.

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RD40 Fire Inspection Tracking System w/Barcode

Category:	2
Computer:	JBOSC Server
Information Category:	ADM
Language:	Visual Basic 5.0
DBMS Type:	N/A
Media:	N/A
Interfaces:	None
Data Owner:	Stevens, Michael B.
Data Owner Org:	TA-E2
Number of NASA Users:	10-50
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The Fire Inspector Extinguisher Tracking has been written to support automated Fire Inspection reporting to NASA. It has the capability of producing MS Word "Inspection Reports" that are sent as Email Attachments to the inspection site Manager. Inspections are tracked via an extensive reporting system. The system has local compressed database Backup capabilities in case of Network problems. Used to benefit all KSC and CCAFS organizations.

RG67 NASA Equipment Management System Property Custodian Module

Category:	1
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	Disk
Interfaces:	RG68, RG69
Data Owner:	Denis, Rebecca
Data Owner Org:	TA-E1
Number of NASA Users:	10-50
Number of Non-NASA Users:	10-50
Primary Customers:	JBOSC, SFOC, PGO, other contractors, NASA Logistics Directorate
Description:	A standard agency-wide system designed as an extension of RG68 NEMS to provide an interface to approve equipment status by 'Electronic signature' of the Property Custodian and/or the NEMS Manager. The Property Custodian's function is to initiate online transactions against equipment

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assigned to them; the NEMS Managers' function is to approve the Property Custodians' transactions allowing the transactions to be processed against the Equipment file. The use of NEMSPCM significantly reduces the amount of paperwork required through the automated 1602 processing. Property Custodians and NEMS Control are able to process online transactions which primarily deal with equipment ownership.

RG67, RG68, RG69 and RG90 are collectively know as CAMS. A standard agency-wide system designed as an extension of RG68 NEMS to provide an interface to approve equipment status by 'Electronic Signature' of the Property Custodian and/or the NEMS Manager. The Property Custodian's function is to initiate online transactions against equipment assigned to them; the NEMS Managers' function is to approve the Property Custodians' transactions allowing the transactions to be processed against the Equipment file. The use of NEMSPCM significantly reduces the amount of paperwork required through the automated 1602 processing. Property Custodians and NEMS Control are able to process online transactions which primarily deal with equipment ownership.

RG68 NASA Equipment Management System (NEMS)

Category:	1
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	Disk
Interfaces:	RG67, RG69, RG90,.
Data Owner:	Denis, Rebecca
Data Owner Org:	TA-E1
Number of NASA Users:	10-50
Number of Non-NASA Users:	10-50
Primary Customers:	JBOSC, SFOC, PGO, other contractors, NASA Logistics Directorate
Description:	A standard agency system designed to track information and activity pertaining to NASA capital and sensitive equipment. NEMS transactions track the movement of equipment in and out of an installation, equipment disposal, equipment maintenance, and equipment inventory. Transactions are entered, edited, and applied Online. Batch reports assist in

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both monitoring these activities and maintaining an accurate and up-to-date database. All items are managed by Equipment Control Number (ECN). The Online system is menu driven with formatted screens; the user enters the information that determines which screen appears next, or enters data necessary to update an equipment or table record. Capabilities are: Online updating of the local database, overnight updating of the central database, Online query and report generation, Online NASA-wide screening of the central database, standardization of data elements throughout the agency, automation of the inventory process, and computer generated standard forms. The system has separate partitions for each user.

RG67, RG68, RG69 and RG90 are collectively know as CAMS.

RG69 NASA Equipment Inventory System

Category:	1
Computer:	IBM Mainframe
Information Category:	BRT
Language:	Natural
DBMS Type:	ADABAS
Media:	
Interfaces:	RG68, RG67
Data Owner:	Denis, Rebecca
Data Owner Org:	TA-E1
Number of NASA Users:	10-50
Number of Non-NASA Users:	10-50
Primary Customers:	NASA
Description:	A standard agency system designed to capture physical inventory data and process this data against the capital equipment file. The inventory is done with a bar code reader, exploded to a PC, and then uploaded to the mainframe. Online transactions are provided for reconciling the physical inventory with the equipment file. The system provides for multiple locations and users.

RG67, RG68, RG69 and RG90 are collectively know as CAMS.

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RG71 LSOC Logistics Open Requirements Management Tracking System (LORMS)

Category:	2
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	Disk
Interfaces:	None
Data Owner:	Johnson, William H.
Data Owner Org:	USA
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	SFOC
Description:	Used to process, control, manage, and report the status of all Orbiter-related open items. Included are mod kits, component end items, LRUs, spares, and flight GSE. A menu selection is provided for update or report generation. All records and data elements pertaining to receipt, deletion, and modification are included in the system. There is about 10,000 records in the system.

RG90 NPDMS-NASA Property Disposal Management System Aim Standard

Category:	1
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	N/A
Interfaces:	None
Data Owner:	McGinnis, Pauletta
Data Owner Org:	TA-E1
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA Logistics Directorate
Description:	NASA Property Disposal System (NPDMS). The NPDMS is an online, menu-driven system providing the system user with the capability to enter transactions affecting the status and disposition of excessed property items, request ad hoc reports, modify system user access capability, and select and determine batch report tape and frequencies. It also provides automatic determination of excess item status based upon screening dates and generates the appropriate reports.

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RG67, RG68, RG69 and RG90 are collectively know as CAMS.

SA01 Area Access Application

Category:	1
Computer:	NASA Server
Information Category:	ADM
Language:	Cold Fusion 5
DBMS Type:	SQL Server
Media:	
Interfaces:	EDW
Data Owner:	Brisbin, Steven
Data Owner Org:	SA-E
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA
Description:	Provide access and tracking of video's and web training required for special work area access

SA03 Safety Concern Reporting System

Category:	1
Computer:	NASA Server
Information Category:	ADM
Language:	Coldfusion 5
DBMS Type:	SQL 7.0
Media:	
Interfaces:	None
Data Owner:	Preston, Robert
Data Owner Org:	SA - E
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA KSC Personnel
Description:	The Safety Concern Reporting System allows NASA personnel at KSC to report safety concerns through this online Web based application. Reports are routed to appropriate personnel for action.

SA04 NASA Metrology Information System

Category:	2
Computer:	JBOSC Server

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Information Category:
 Language:
 DBMS Type:
 Media:
 Interfaces:
 Data Owner: Kotowski, Ray
 Data Owner Org: SA-G-G
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers:
 Description: A clipper based application supporting the Standards and Calibration laboratories work control operations.

SI07 PAMIS Printing & Micrographics

Category: 2
 Computer: JBOSC Server
 Information Category: ADM
 Language: Clipper
 DBMS Type: dBASE
 Media: Disk
 Interfaces: None
 Data Owner: Mayers, Jan
 Data Owner Org: TA-E1
 Number of NASA Users: 50-100
 Number of Non-NASA Users: over 50
 Primary Customers: NASA/JBOSC
 Description: Supports printing, micro-imaging and microform repository.

SI18 Propellant Handler's Ensemble Tracking System (PHE)

Category: 2
 Computer: JBOSC Server
 Information Category: ADM
 Language: Clipper
 DBMS Type: dBASE
 Media: Disk
 Interfaces: None
 Data Owner: Du Quesne, Christine
 Data Owner Org: TA-E3
 Number of NASA Users: 1-10
 Number of Non-NASA Users: 1-10
 Primary Customers: NASA/JBOSC
 Description: The PHE Discrepancy Tracking System is used to provide the

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Life Support Organization with a locally controlled system to track discrepancies, corrective actions and related data. Its purpose is to provide information used to supplement the existing PRACA system and provide the additional managerial information needed to redefine the corrective action process. Used by Wyle Labs for generating reports for NASA, JBOSC and other contractors. (i.e. anyone who uses SCAPE).

SI36 Data Entry System

Category:	2
Computer:	IBM Mainframe
Information Category:	BRT
Language:	NATURAL
DBMS Type:	ADABAS
Media:	Disk
Interfaces:	GH29, RG38, RG60
Data Owner:	Miller, Margaret
Data Owner Org:	GG-A
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA, JBOSC
Description:	Data Entry facility replacing keymaster key-to-disk product. Basic data entry facility for NASA Payroll, Time and Attendance.

SI37 Propellants/Life Support Scheduling System

Category:	2
Computer:	JBOSC Server
Information Category:	ADM
Language:	Clipper
DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Dudzinski, Dennis
Data Owner Org:	WYLE
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The LIFE SUPPORT SCHEDULING System (S137) is a PC Network based job roster used by JBOSC for day-to-day operations including SCAPE. This system displays a list of

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jobs for each functional area on a large monitor already installed in the work areas. The system allows update of the job rosters from a central location with a highlight notification and receipt of notification response. This work is in support of NASA, AF, and contractors including USA, Boeing, Lockheed Martin, Wiltech, InDyne, United Paradyne, NAVY, SVT.

SI49 Outbound Freight Traffic

Category:	2
Computer:	JBOSC Server
Information Category:	ADM
Language:	Clipper
DBMS Type:	dBASE
Media:	Disk
Interfaces:	None
Data Owner:	Satterthwaite, Marlene
Data Owner Org:	NASA
Number of NASA Users:	1-10
Number of Non-NASA Users:	1-10
Primary Customers:	NASA/JBOSC
Description:	The Outbound Freight Register Function provides the facilities control on all outbound International and Domestic shipments. It also allows the facilities to process requests for shipments, initiate and print DD Form 1149, Commercial and Government Bills of Lading or other supporting documentation necessary for processing all outbound International and Domestic shipments.

SOLIMAR Solimar Printshop

Category:	2
Computer:	Server
Information Category:	MSN
Language:	
DBMS Type:	
Media:	
Interfaces:	
Data Owner:	Mayers, Jan
Data Owner Org:	TA-E1
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	

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Description:

TA01 KSC Action Item Tracking System (KAITS)

Category:	1
Computer:	JBOSC Server
Information Category:	BRT
Language:	ColdFusion
DBMS Type:	SQL 7.0
Media:	N/A
Interfaces:	None
Data Owner:	Gross, Sue
Data Owner Org:	AE
Number of NASA Users:	1800-2000
Number of Non-NASA Users:	0
Primary Customers:	NASA
Description:	KAITS is a Web-Based application used to initiate, process and monitor action items assigned to NASA Organizations and/or employees. KAITs can be used by all NASA KSC organizations for the tracking of action assignments and the dissemination of action in KAITs provides a single repository of information for all actions and reference material.

TA02 Conference Room Scheduler (CRS)

Category:	2
Computer:	ODIN Server
Information Category:	ADM
Language:	ASP
DBMS Type:	SQL 7.0
Media:	N/A
Interfaces:	TA06
Data Owner:	Bookhart, Bryan
Data Owner Org:	IT-D
Number of NASA Users:	over 2000
Number of Non-NASA Users:	> 2000
Primary Customers:	KSC Employees
Description:	The TA02 Conference Room Scheduler (CRS) system allows KSC employees to review conference room schedules and reserve a room. The conference room monitor and scheduler automatically receive e-mail of the scheduled event. Conference rooms are classified as Open (anyone can schedule the room), Closed (requires room monitor approval to schedule), or Private (can be scheduled only by room

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monitor).

TA04 Records Management Training System (RMTS)

Category:	2
Computer:	ODIN Server
Information Category:	ADM
Language:	ColdFusion, MacroMedia(Flash)
DBMS Type:	Access
Media:	N/A
Interfaces:	None
Data Owner:	Justice, Jan
Data Owner Org:	IT-B
Number of NASA Users:	100-200
Number of Non-NASA Users:	> 2000
Primary Customers:	KSC Wide
Description:	Developed for the KSC Training Office to serve the training needs of the KSC Records Officer. RMTS is a web-based training system available to all KSC users.

TA05 TechDoc 2

Category:	1
Computer:	Tech Doc Server
Information Category:	MSN/BRT
Language:	Java
DBMS Type:	SQL 2000
Media:	N/A
Interfaces:	None
Data Owner:	Bierman, Tracey
Data Owner Org:	IT-C1
Number of NASA Users:	over 2000
Number of Non-NASA Users:	
Primary Customers:	NASA/JBOSC
Description:	TechDoc 2.0 is a document management system developed by NASA to control the publication, release, and maintenance of documents. TechDoc is available via a web interface to all KSC employees and other authorized users off center. Some documents are also available to the general public. TechDoc 2.0 is used by each of the major contractors at KSC to store and manage their documents. This system is comprised of two search managers (TDSearch and TDGlobal) and three database servers (TDKSC, TDJBOSC, and TDELV).

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NASA retains maintenance of the code and JBOSC is responsible for System/Server administration.

TA06 KSC Employee Data Warehouse (EDW)

Category:	1
Computer:	ODIN Server
Information Category:	BRT
Language:	ASP
DBMS Type:	SQL 7.0
Media:	N/A
Interfaces:	AC02, HM03, GG03, PM50, JB06, JB11, IT01, RD00, RD02, ASTAR, TA01, JP01, TA16, BA02, TA17, BA03, WTADS, BA01, GG02, TA02, Email
Data Owner:	Bierman, Tracey
Data Owner Org:	IT-C1
Number of NASA Users:	50-100
Number of Non-NASA Users:	> 2000
Primary Customers:	NASA
Description:	<p>The Employee Data Warehouse was developed to provide a warehouse of employee-related data from numerous authoritative sources, both KSC sources and Agency-wide enterprise business systems. The data collected includes NASA corporate personnel information and X500 information on KSC civil service and contractor employees, for everyone badged at KSC. Data is collected from many sources, including the Personnel Access Security System (PASS), the Federal Personnel/Payroll System (FPPS), the PM50 Training, Certification, and Records System (TCRS), the EDW Self Service Management Tool (SSMT), and e-mail. The data collected from the authoritative sources can then be distributed to other applications requiring access to employee-related data. The applications requiring employee-related data no longer have to interface to each authoritative source of the data, thereby relieving numerous applications of interfacing with a multitude of source applications to retrieve required data. The Warehouse also provides the benefit of one application change when a data source changes, rather than having to change each application utilizing the data. The requests for data by individuals and applications are approved by each data's custodian for distribution to the requesting entity. The EDW data can also be viewed by approved users online.</p>

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TA08 Access Control and Intrusion Detection System II (ACIDS II)

Category:	2
Computer:	JBOSC Server
Information Category:	MSN
Language:	COTS
DBMS Type:	N/A
Media:	Disk, Tape
Interfaces:	SQL
Data Owner:	Stevens, Michael L.
Data Owner Org:	TA-E2
Number of NASA Users:	10-50
Number of Non-NASA Users:	10-50
Primary Customers:	NASA/JBOSC Security
Description:	ACIDS II provides Access Control and Intrusion Detection capabilities at various KSC controlled areas. The system receives intrusion alarms and cardreader access information from 34 intelligent Remote Terminal Units. Alarms and database information are displayed on operator X terminals. Remote database access and visitor authorization capability are provided by Pentium workstations.

TA09 Access Transaction History Subsystem (ATHS)

Category:	2
Computer:	JBOSC Server
Information Category:	MSN
Language:	C
DBMS Type:	SQL
Media:	N/A
Interfaces:	PASS, ACIDS II, LOACS
Data Owner:	Stevens, Michael L.
Data Owner Org:	TA-E2
Number of NASA Users:	10-50
Number of Non-NASA Users:	
Primary Customers:	NASA/JBOSC Security
Description:	The ATH records access transactions effected on two Access Control systems and records them on optical media. The system is used for Security investigations. The ATH also distributes area authorization/de-authorizations to the Access Control Systems.

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TA11 Specifications-Kept-Intact (SpecsIntact)

Category:	1
Computer:	JBOSC Server
Information Category:	MSN
Language:	Visual Basic 6.0, Visual C++, C
DBMS Type:	N/A
Media:	N/A
Interfaces:	Word, Project, Adobe Acrobat
Data Owner:	Morales, Miguel
Data Owner Org:	NASA
Number of NASA Users:	over 2000
Number of Non-NASA Users:	over 50
Primary Customers:	NASA/JBOSC
Description:	An automated system for preparing facility construction specifications used worldwide by NASA, Navy, and Army. The software is continually enhanced in response to user suggestions and guidance from the Interagency Configuration Control and Coordinating Board, which oversees any changes to the system. Operation and Maintenance includes program upgrades, enhancements and problem corrections. JBOSC distributes the software to the National Institute of Building Sciences (NIBS) and posts software releases for download from the SI Web site. JBOSC also provides telephone support services to users worldwide - Monday through Friday 7:30 am to 4:30 pm, maintains and updates the SpecsIntact web pages, and updates and maintains user documentation. JBOSC is required to coordinate and present at bi-annually Interagency Configuration Control and Coordinating Board Meetings, document and post minutes on the web site.

TA14 KSC Electronic Forms FileNet Electronic Forms Manager

Category:	2
Computer:	JBOSC Server
Information Category:	ADM
Language:	COTS, HTML, ColdFusion, Javascript, JAVA
DBMS Type:	Access
Media:	
Interfaces:	Ames, JSC, USA Forms Server
Data Owner:	Mayers, Jan
Data Owner Org:	TA-E1
Number of NASA Users:	1800-2000
Number of Non-NASA Users:	over 50
Primary Customers:	JBOSC, NASA, ODIN

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Description:

The FileNet Forms Manager is a 300 concurrent use license that operates as a thick client application. JBOSC and ODIN are responsible for application deployment to user desktops. There are potentially 5,000 - 6,000 users. The application runs on the user desktop, or a second method of electronic forms retrieval is via ColdFusion web pages from the SGS Home page URL kscforms.

Updated description per Nancy Gamble, 08/29/05. The Kennedy Electronic Forms Systems (KEFS) is a suite of tools for filling out, saving, and submitting electronic forms, all using the desktop computer. KEFS uses a commercial software application called Informed Filler to provide KSC users with electronic form capabilities. The FileNet Forms Manager is a 300 concurrent use license that operates as a thick client application. JBOSC and ODIN are responsible for application deployment to user desktops. There are potentially 5,000 - 6,000 users. The application runs on the user desktop, or a second method of electronic forms retrieval is via ColdFusion web pages from the SGS Home Page URL kscforms.

TA15 KSC Central Fire Alarm Monitoring - Simplex

Category:	2
Computer:	IBM-PC
Information Category:	BRT
Language:	COTS (Simplex)
DBMS Type:	N/A
Media:	
Interfaces:	None
Data Owner:	Stevens, Michael B.
Data Owner Org:	TA-E2
Number of NASA Users:	N/A
Number of Non-NASA Users:	1-10
Primary Customers:	NASA
Description:	Utilizes a MS Windows 95 Operating System. Displays fire alarm information to dispatchers. System used for annunciating and controlling the various fire alarm points of NASA facilities. The graphical interface allows operators to interact with the system through the use of mouse, keyboard, and touch screen input. The Simplex systems can be monitored at the Joint Communications Control Center (JCCC) at KSC and the Alternate Joint Communications Control Center (A-JCCC) at CCAFS.

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JBOSC is responsible for sustaining the displays and database.

TA16 Communication Device Tracking System (CDTS)

Category:	2
Computer:	IBM-PC
Information Category:	TBD
Language:	Visual Basic 6
DBMS Type:	SQL 2000
Media:	N/A
Interfaces:	EDW
Data Owner:	Jackson, Andra
Data Owner Org:	NASA
Number of NASA Users:	0
Number of Non-NASA Users:	10-50
Primary Customers:	JBOSC Information Management Directorate
Description:	The Communication Device Tracking System tracks assignments of blackberries, cell phones, and pagers for NASA and the JBOSC contract, and tracks billing for the JBOSC blackberries, cell phones, and pagers. The system extracts relevant employee data from the Employee Data Warehouse (EDW) and tracks new device assignments, device transfers, and device turn-ins. For each JBOSC device assignment, the appropriated cost from the vendor's billing file is assigned. This data is reported monthly for the JBOSC contract and for each directorate within JBOSC.

TA17 Safety Variance Request Process System (SVRPS)

Category:	2
Computer:	ODIN Server
Information Category:	ADM
Language:	Cold Fusion
DBMS Type:	SQL 7.0
Media:	
Interfaces:	X 500, Microsoft Outlook
Data Owner:	Ellison, Robert
Data Owner Org:	QA-B
Number of NASA Users:	over 2000
Number of Non-NASA Users:	over 50
Primary Customers:	Used by All KSC NASA/Contractor Employees
Description:	The Safety Variance Request Processing System (SVRPS) is a web-based system for the initiation and processing of

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requests for variances from NASA and KSC safety procedures. The SVRPS allows the entry of variance request information. The request is electronically routed through email for review and approval to the appropriate safety officials. The requestor is notified of action through email. All KSC NASA and contractor employees have access to the system. SVRPS interfaces with the X500 database to verify users. The SVRPS automatically expires requests on expiration dates and notifies originator and approvers of expiration.

TA18 Surplus Property Sales Program

Category:	1
Computer:	NASA Server
Information Category:	PUB
Language:	Cold Fusion 5
DBMS Type:	SQL Server 2000
Media:	
Interfaces:	None
Data Owner:	Remley, Mary
Data Owner Org:	NASA TA
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA
Description:	Website providing Surplus property sales information to the General Public.

TA20 Facility Space Utilization Application (FSUA)

Category:	1
Computer:	JBOSC Server
Information Category:	BRT
Language:	Coldfusion, PLSQL, Java Script, C++, ArcObjects
DBMS Type:	Oracle 9i, ArcSDE
Media:	Web-based
Interfaces:	JB11, JB31, TA06, IT01, TA23
Data Owner:	Knight, John
Data Owner Org:	TA-F
Number of NASA Users:	1-10
Number of Non-NASA Users:	over 50
Primary Customers:	Real Property
Description:	The Facility Space Utilization Application (FSUA) was built to support the management of space (i.e., assignment of

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rooms). The primary users of this system are Space Gateway Support's (SGS) Facility Space Utilization Group and individuals who manage space for contractors. These individuals are referred to as Directorate Facility Utilization Managers (DFUMs) and Space Utilization Managers (SUMs). These terms are respectively used by NASA and Air Force.

The application is primarily web-based and allows users to access, read and modify data for space that are their responsibility. The application reads and displays employee data which is stored on the Self-service Management Tool (SSMT). Access and privileges to roles are controlled via user names and passwords. A separate application modules enables client-based, Geographic Information System (GIS) software to import floor and room drawings into the database. The application and data are housed on the Cape Canaveral Spaceport GIS.

TA22 GIS - Cable Engineering Sub-Application

Category:	1
Computer:	JBOSC Server
Information Category:	BRT
Language:	ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
DBMS Type:	Oracle 9i, ArcSDE
Media:	
Interfaces:	TDCOMM, JB11, TA23
Data Owner:	Smith, Leroy
Data Owner Org:	TA-F
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA
Description:	This GIS application allows cable engineering to retrieve cable drawings associated with buildings and man holes.

TA23 GIS - Spaceport Map Viewer

Category:	1
Computer:	JBOSC Server
Information Category:	BRT
Language:	ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
DBMS Type:	Oracle 9i, ArcSDE

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Media:
 Interfaces: JB11, JB31, JB82, JB83, JB84, TA20, TA22, TA23, TA24, TA25, TA26, TA27, TA28, TA29
 Data Owner: Smith, Leroy
 Data Owner Org: TA-F
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA, AF
 Description: This is the KSC main web-base, GIS program.

TA24 GIS - Electrical Ductbank Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB11, TA23
 Data Owner: Smith, Leroy
 Data Owner Org: TA-F
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: SGS Design Engineering
 Description: This GIS application allows electrical engineering to trace the flow path of electricity on the spaceport.

TA25 GIS - Geodetic Control Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: National Geodetic Survey Website, JB11, TA23
 Data Owner: Smith, Leroy
 Data Owner Org: TA-F
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: SGS Survey
 Description: This GIS application displays land survey information.

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TA26 GIS - NASA Environmental Management Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB11, TA23
 Data Owner: Summerfield, Burt
 Data Owner Org: TA-C
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA Environmental
 Description: This GIS application displays NASA Environmental Data.

TA27 GIS - Facility Floor Plans Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB88 - Bentley Publisher, JB11, TA23, SGS Floorplan Share
 Data Owner: Knight, John
 Data Owner Org: TA-F
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA, AF
 Description: This GIS application allows users to retrieve floors associated with specific facilities.

TA28 GIS - Excavation Permit Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML

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DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB34, JB11, TA23
 Data Owner: Smith, Leroy
 Data Owner Org: TA-F
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: SGS
 Description: This GIS application allows users to create excavation permit maps.

TA29 GIS - Planning Sub-Application

Category: 1
 Computer: JBOSC Server
 Information Category: BRT
 Language: ESRI (COTS) Cold Fusion, HTML, Javascript, JAVA SVG, XML
 DBMS Type: Oracle 9i, ArcSDE
 Media:
 Interfaces: JB31, TA06, JB11, TA23
 Data Owner: Smith, Leroy
 Data Owner Org: TA-F
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA, AF
 Description: This GIS application allows users to obtain current replacement value, square footage and people counts for buildings.

TA35 Environmental Program Branch Application

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: Cold Fusion 5
 DBMS Type: None
 Media:
 Interfaces: None
 Data Owner: Callier, Diane
 Data Owner Org: TA-C3
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA TA-C3

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Description: The Environmental Program Branch (EPB) Website offers information about and in support of KSC's Environmental Programs. This Calendar application supports EPB activities.

TA39 Food Services Survey Application

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: Cold Fusion
 DBMS Type: SQL
 Media:
 Interfaces: None
 Data Owner: Perry, Gordon
 Data Owner Org: TA-A
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: KSC Public at large
 Description: An online survey available to the KSC community to gather information about the KSC Food Services.

TA40 Senior Management Planning Tool (SMPT)

Category: 1
 Computer: IBM-PC
 Information Category: BRT
 Language: .net
 DBMS Type: Access/SQL desktop
 Media: Single NASA Laptop hard drive
 Interfaces: None
 Data Owner: Kerr, Scott
 Data Owner Org: DX
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers:
 Description: The SMPT Geographic Information System (GIS) application will allow National Aeronautics and Space Administration (NASA) facility analysts to analyze and plan for Kennedy Space Center's (KSC) future facility utilization. The application will consist of a number of modules to extend the functionality of ESRI's ArcEditor GIS software package.

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TA41 Kennedy Complex Control Systems-JBOSC Utilities

Category:	2
Computer:	S/A
Information Category:	SER
Language:	COTS SCADA
DBMS Type:	N/A
Media:	
Interfaces:	None
Data Owner:	Shaffer, Krista
Data Owner Org:	NASA, TA
Number of NASA Users:	0
Number of Non-NASA Users:	50-200
Primary Customers:	JBOSC
Description:	<p>ennedy Complex Control System (KCCS) - JBOSC Utilities is a central monitoring system for various facility utilities systems. The backbone of the system is a 10Base-T Ethernet type communications network. Utility end items are controlled and/or monitored through Commercial-off-the-shelf (COTS) Field Interface Controllers (FICs) and workstations which communicate with each other over the network system. KCCS is a server-based system providing operators with utilities monitoring capability. The Domain servers provide a redundant environment for their specific network. The I/O servers provide data acquisition and storage functions for their specific network. Supervisory Control and Data Acquisition (SCADA) software loaded on the servers provides the means to monitor the KCCS utilities systems. The software provides the tools to monitor, trend, and report the status of utility equipment monitored by KCCS. KCCS utilities application is a COTS Supervisory Control and Data Acquisition (SCADA) product by the Citect company. Two domain controllers, two application servers.</p>

TA43 Automated External Defibrillator

Category:	2
Computer:	JBOSC Server
Information Category:	
Language:	
DBMS Type:	
Media:	
Interfaces:	
Data Owner:	Tipton, Dr. David
Data Owner Org:	TA-C2

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Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers:
 Description: Automated External Defibrillation (AED) website hosted from the JBOSC website that provides on-line first responder training, links to the AED Handbook, policies, procedures and required AED Use Authorization and AED Use Registration forms.

TA46 Viisage Document Authentication

Category: 1
 Computer: S/A
 Information Category:
 Language: COTS
 DBMS Type: N/A
 Media:
 Interfaces: None
 Data Owner: Storey, Ron
 Data Owner Org: TA-G
 Number of NASA Users: 0
 Number of Non-NASA Users: 10-50
 Primary Customers: JBOSC
 Description: Document Authentication - Electronic Document Readers for Passports, Visas, and Drivers' Licenses. Provides an automated system for capturing, analyzing, and processing travel and identity documents. Automatically authenticate identification documents such as passports, visas, INS immigration cards, driver licenses, and military ID cards. It reads document data and captures full-page document images.

TA48 Gate2 Electronic Marquee (GEM2)

Category: 2
 Computer: S/A
 Information Category:
 Language: COTS
 DBMS Type: N/A
 Media:
 Interfaces: None
 Data Owner: Oakland, Dann
 Data Owner Org: TA-E2
 Number of NASA Users: 0
 Number of Non-NASA Users: 1-10

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Primary Customers: JBOSC
 Description: Electronic Marquee positioned outside of Gate #2 that displays welcome and important information to employees and visitors approaching KSC. Multiple messages are displayed for various time durations in rotation. Messages are sent over a secure telephone modem using Complay Software.

TA49 Gate 3 Electronic Marquee (GEM3)

Category: 2
 Computer: S/A
 Information Category:
 Language: COTS
 DBMS Type: N/A
 Media:
 Interfaces: None
 Data Owner: Oakland, Dann
 Data Owner Org: TA-E2
 Number of NASA Users: 0
 Number of Non-NASA Users: 1-10
 Primary Customers: JBOSC
 Description: Electronic Marquee positioned outside of Gate #3 that displays welcome and important information to employees and visitors approaching KSC. Multiple messages are displayed for various time durations in rotation. Messages are sent over a secure telephone modem using Complay Software.

TA50 Gate4 Electronic Marquee (GEM4)

Category: 2
 Computer: S/A
 Information Category:
 Language: COTS
 DBMS Type: N/A
 Media:
 Interfaces: None
 Data Owner: Oakland, Dann
 Data Owner Org: TA-E2
 Number of NASA Users: 0
 Number of Non-NASA Users: 1-10
 Primary Customers: JBOSC
 Description: Electronic Marquee positioned outside of Gate #4 that displays welcome and important information to employees and visitors approaching KSC. Multiple messages are

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displayed for various time durations in rotation. Messages are sent over a secure telephone modem using Complay Software.

UB01 Florida Labor Management Application

Category: 1
 Computer: NASA Server
 Information Category: PUB
 Language: Cold Fusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: None
 Data Owner: Lacanne, Patti
 Data Owner Org: UB-M
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA UB
 Description: Application used for annual work shop registration.

UB02 Master Plan/Acquisition Forecast Application

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: Cold Fusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: None
 Data Owner: LaCanne, Patti
 Data Owner Org: UB-M
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA OP
 Description: Master Buy and Acquisition Forecasting is required for each NASA Center for ALL anticipated contract opportunities in excess of \$100,000. KSC Directorate inputs are captured annually in the Master Plan/Acquisition Forecast Application.

XA01 Opportunity for Improvement (OFI)

Category: 2
 Computer: ODIN Server
 Information Category: ADM

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Language:	ColdFusion
DBMS Type:	SQL 7.0
Media:	N/A
Interfaces:	None
Data Owner:	Foster, Michelle
Data Owner Org:	XA-G
Number of NASA Users:	over 2000
Number of Non-NASA Users:	
Primary Customers:	NASA
Description:	The Opportunity for Improvement (OFI) system is designed to obtain comments and suggestions from the public and internal customers regarding any subject related to Kennedy Space Center. It has a web interface linked to the KSC homepage "Customer Connecting." Upon submission of a comment/suggestion, the OFI manager is notified, a directorate is assigned the action to evaluate the suggestion, suspense dates are established, and the OFI is processed through the HQ to the Management Advisory Board or Executive Council, as appropriate, until it is either implemented or determined not feasible. As the OFI is routed through the system, an audit trail is established and automatic e-mail is activated upon specific events.

XA02 Press Site Media Accreditation Application

Category:	1
Computer:	NASA Server
Information Category:	PUB
Language:	Cold Fusion5
DBMS Type:	SQL Server 2000
Media:	
Interfaces:	None
Data Owner:	Warren, Kandy
Data Owner Org:	XA-E
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	NASA
Description:	This application provides the World Wide Media a Web based method for requesting a badge for entry to KSC. The administrator portion of the application allows NASA personnel to manage and disposition the requests.

<http://media.ksc.nasa.gov> Applications using a login ID and Password. Transmits data using SSL Certificate. Application is hosted in the Kennedy Internet Facility.

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XA03 Speakers Bureau Website Application

Category: 1
 Computer: ODIN Server
 Information Category: PUB
 Language: Cold Fusion 4
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: None
 Data Owner: Bell, Bennie
 Data Owner Org: XA-F1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: Application providing a method for requesting Speakers to support a specific event or activity. This site is also open to the General Public.

XA05 Press Site Media Metrics Application

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: Cold Fusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: None
 Data Owner: Warren, Kandy
 Data Owner Org: XA-E
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA
 Description: This application captures and reports metric information for specifically identified Press Site activities.

XA06 NASA Multi Media Gallery Application

Category: 1
 Computer: NASA Server
 Information Category: PUB
 Language: Cold Fusion 5
 DBMS Type: SQL Server

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Media:
 Interfaces: None
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: Public
 Description: The Multi Gallery is used by the General Public to access archive Photos and video of NASA activities and other related activities, events, personnel and places.

XA07 Mission Quiz

Category: 1
 Computer: NASA Server
 Information Category: PUB
 Language: Coldfusion 5/Flash MX2004
 DBMS Type: SQL Server
 Media:
 Interfaces: None
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: Public
 Description: An application used as required prior to launch (SST and ELV) allowing the General Public access to a Mission specific quiz. There is also an administrative portion to manage the questions and answers as needed for each quiz.

XA08 Site Survey Application

Category: 1
 Computer: NASA Server
 Information Category: PUB
 Language: Cold Fusion 5
 DBMS Type: SQL Server
 Media:
 Interfaces: None
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA

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Description: The application captures site survey information when provided by the General Public. The Administrative portion of the application provided NASA personnel the ability to manage and report the survey data.

XA09 Countdown Clock Application

Category: 1
 Computer: NASA Server
 Information Category: PUB
 Language: ColdFusion5/Flash MX 2004
 DBMS Type: SQL Sever
 Media:
 Interfaces: None
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: General Public
 Description: A countdown ticker found on the KSC Home Page during SST launch.

XA10 KSC Search Engine Application

Category: 1
 Computer: NASA Server
 Information Category: PUB
 Language: Coldfusion 5
 DBMS Type: None
 Media:
 Interfaces: None
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: General Public
 Description: An application accessed from the KSC Internal Home Page to search KSC information.

XA11 Conversion Utility Application

Category: 1
 Computer: ODIN Server

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Information Category: PUB
 Language: Coldfusion 5
 DBMS Type: None
 Media:
 Interfaces: None
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: General Public
 Description: Conversion utility uses JavaScript to display a pop-up window containing the converted value. Any HRML page can embed the proper link for conversion of Distance, Area, Volume, Liquid, Dry, Speed, Time, and Temperature. A total of 56 different conversion are possible.

XA13 KSC History Program Hall of Honor Application

Category: 1
 Computer: NASA Server
 Information Category: ADM
 Language: Cold Fusion 5
 DBMS Type: SQL Server 2000
 Media:
 Interfaces: None
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1
 Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers: NASA XA
 Description: Application use by XA to receive historical information from retired aerospace employees and general public sources.

XA16 Question Board Application

Category: 1
 Computer:
 Information Category:
 Language:
 DBMS Type:
 Media:
 Interfaces:
 Data Owner: Armstrong, Dennis
 Data Owner Org: XA-E1

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Number of NASA Users:
 Number of Non-NASA Users:
 Primary Customers:
 Description:

The Question Board Application is used prior to a Mission (Shuttle and ELV), where the public is invited to submit questions for review and after approval/moderation, posting to the "Question Board". The questions are answered by Mission Subject Matter Experts and posted. The Mission Question Board is available for a set amount of time then archived.

YA02 Shuttle Data Processing System (DPS)

Category: 2
 Computer: Loral OS/90, 3-SunSparc SunOS, DEC Workstation 5000 Ultrix 4.1B, and Alphasat Optical Storage Disk Storage (Note: Compaq 1000 Unix Server for Optical Disk Storage & Database and 2-DEC Alpha 2000 Open VMS Ver. 7 for Launch Data.)
 Information Category: SER
 Language: ASP, Fortran, C, COTS (Matlab , PVWave)
 DBMS Type: Oracle
 Media: Sun Solaris
 Interfaces: MADS, GMS, LPS
 Data Owner: Vu, Bruce T.
 Data Owner Org: YA-C2-T
 Number of NASA Users: 10-50
 Number of Non-NASA Users:
 Primary Customers: NASA YA Labs and TestBeds
 Description: The Data Processing System consists of Loral Open Systems 90 equipment, one Penny and Giles 14-track recorder, a DEC 5000 ULTRIX Telemetry Front End (TFE) Workstation with Ingres database, two Loral Model IV 14-track tape recorders, one Loral 8470 Digital Discriminator, two Time Code Generator units, three sets of subcarrier discriminators, three oscillographs, one 429 Multiplexor encoder, one digital frequency discriminator, one analog to digital converter, two Wavetek signal filters and associated rack assemblies. The launch history data is stored in a 144 cartridge Alphasat Inspire II magneto-optical jukebox.

STS DATA PROCESSING

- Launch, Launch Abort, Launch Scrub Measurement Data Reduction - Approximately 4,000 analog and digital measurements are extracted and processed in the engineering

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computer center for each launch flight readiness firing, launch, launch abort, or scrub. These measurements are recorded by sensors on the shuttle orbiter, and on ground support equipment and the many structures around the two launch pads. This data is used to accurately analyze and predict the environmental stresses that is imposed on instruments and structures around the launch pads. Each measurement is assigned a unique number that classifies the measurement location and type. The engineering computer center is capable of providing detailed analysis requiring high volume and high sample rates to exhibit conditions of anomaly or variations which may impact performance of ground support equipment or even some systems on the orbiter. Specific ongoing launch measurements being provided to engineering include data from sensors on the External Tank GOX Vent Arm, LOX Pump Vibration, H2 Leak Detection, H2 Vent Arm, MLP Hold Down Post, Air Compressors, and several acoustic sensor locations. In addition to collecting, filtering, and sampling this data, the engineering computer systems offer services to present the data in formats capable of being processed by commercial analytical tools.

- **Launch History STS-1 thru STS-13, STS-26R thru STS-108 - NASA KSC YA, NASA MSFC, NASA Stennis, Dynacs, and Rocketdyne engineers are able to interrogate a database of information pertaining to structures, locations, engineering units, measurement categories for telemetry data from past shuttle launches, and display this data online at remote workstations in graphical format. The data from these launches includes a significant portion of the ground vibration, acoustics, pressure, strain, and heating rate data collected from STS launches to date. This data is used by the YA-F2 office for the determination of launch-induced environments for analysis of existing and future ground launch structures and support equipment. The design of future launch vehicles requires the existence of this information.**

- **SSME Data Reduction at High Volume, High Sample Rates - Specific analysis of SSME vibrations and SSME "pops" can be detected by sampling at 100KHz frequencies and filtering the data at lower frequencies. SSME refurbishment is extremely costly and this analysis conducted jointly at KSC, MSFC, and Stennis is one of the ways in which SSME**

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performance/wear is analyzed. Because of the high frequency, data bit accuracy, and filtering capabilities of the engineering computer systems, these centers have proposed that JBOSC perform all of the data reduction requirements of each center at KSC. JBOSC provides a "waterfall" time frequency domain (FFT) plot of each of the measurements to main engine cutoff.

STS METEOROLOGICAL REQUIREMENTS

- **SLF Winds Return to Launch Site, SLF Shuttle Landing Data Acquisition -** SLF telemetry data is acquired by JBOSC three hours prior to launch/landing through thirty minutes after launch/landing from three sites at the SLF. In addition to wind speed, the wind direction is required for the crosswinds vector calculation. This data is used for post launch analysis as required by YA-D Weather Projects office and is utilized in RTLS and shuttle landing constraint analysis. The current "safe" wind speed limit is approx. 18 knots, depending on the wind direction relative to the runway (cross winds vector).

- **Shuttle Launch Commit Criteria Data Acquisition Analysis -** There is a current requirement to archive meteorological data to support a review of launch commit constraint criteria applicable to cloud electrification and "cloud to cloud" or "cloud to ground" lightning, cross winds speed and vector analysis for SLF landing and RTLS (return to launch site) constraints, and basic LPLWS (lightning warning) analysis to minimize disruption of launch support activities resulting from lightning and severe thunderstorm activity. Electric potential gradient data and Doppler radar data is processed 24/7 and archived by JBOSC from the ROCC (Range Operations Control Center) and MIDDS (Meteorological Interactive Data Display System). The data is made available for specific dates, locations, altitudes, and time periods from ground systems and Doppler radar systems to support this research to determine if launch constraints may be modified or relaxed.

- **Shuttle Processing Operations Adverse Weather Warnings Data Acquisition -** Data from the CCAFS ROCC and MIDDS is archived by JBOSC Software Control Systems and provided to NASA, MIT, DARPA, Marshall Space Flight Center, Colorado State University, National Center for

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Atmospheric Research in support of government funded projects to pinpoint the origination of cloud electrification and predict cloud to cloud and cloud to ground lightning. These studies are coordinated by NASA and are used to dictate early warning conditions for shuttle operations, especially for personnel working up to 200 feet above ground near the orbiter and unmanned space vehicles. It is important for this research to have accurate data, available at high sample rates, to better understand and predict accurately atmospheric phenomena, especially lightning.

YA03 Engineering Analysis VMS Computer System (EAS)

Category: 2
 Computer: DEC Station (TRMM), 2-Alpha 2000 Open VMS Servers (MIDDSDPS), SGI 2100 (Engineering Server)
 Information Category: MSN
 Language: Fortran, C, DCL
 DBMS Type: ISAM
 Media:
 Interfaces:
 Data Owner: Melton, Greg
 Data Owner Org: YA-D1
 Number of NASA Users: over 2000
 Number of Non-NASA Users:
 Primary Customers: NASA Weather Office, NASA YA Engineering, Rocketdyne, CTI
 Description: The Engineering Analysis Computer System (EAS) serves as the primary system for NASA, JBOSC, other contractor engineers and end-users to support data analysis of the Space Shuttle and its Ground Support Equipment (GSE). Once the launch telemetry data is acquired and processed, NASA Engineers utilize these systems to perform various types of analysis of the data. The NASA Labs and Testbeds engineers perform structural stress analysis and modal analysis for projects such as the MLP model, Shuttle Lifting Sling, and VETA (Verification Test Article), using commercial software tools. Engineers analyze launch data for vibration, acoustics, strain, pressure, and acceleration; and perform troubleshooting of LOX pump operations, and also leak detection analysis.

HARDWARE: The system consists of one (1) VAX Station 3100, two (2) Alpha Server 2000, and three (3) DEC Priors HX6200 NT Servers,. The system also includes over 250GB

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of hard disk storage, one HP1715T 300GB Magneto Optical Disk Jukebox, CD-ROM mastering system, six (6) 8mm tape drives, six (6) 4mm tape drives, seven (7) Digital Linear Tape (DLT) backup units, two (2) 9 track tape drives, consoles, printers, plotters, terminals, and other peripherals.

SOFTWARE: JBOSC SW Control Systems Support personnel provide support for installation, upgrade, tuning, troubleshooting, and maintenance for the Irix Server, OpenVMS Servers, Compaq Tru64 UNIX, NT Server, and MS Windows 95, MS Windows 98, MS NT, and MS Win2000 workstation platforms. This work is done on the servers maintained by Systems Support personnel in the HQ3470 room and also on individual systems of both its own department and those of NASA Engineers and contractors. In addition, support is provided for software compilers and other packages that are run by the customers, such as C, Fortran, Perl, IIS, Pathworks, Multinet, Matlab, PV-WAVE mathematical analysis, Oracle database management system software, Electronic Document Systems, and NFS and Samba file sharing software.

OTHER MAJOR SUPPORT SERVICES:

- **Server Support:** Network printing, disk sharing, X Windows interface services are provided on the NT servers and Open VMS Cluster for NASA and contractor users. Software supported includes LAN Manager, Internet Information Server, Netware, and MacIntosh PCs and workstations.

- **Support for Micrographics and Printshop:** The NT server disk storage cabinet is utilized as a staging area to process several thousand electronic document images per day. These include Fact Sheets, OMIs, Failure Analysis data, KSC Forms, Launch Readiness Reviews, Payloads Documentation, Flight Software Documentation, Space Shuttle Mission Reports, Flight Requirements Documents, Launch Commit Criteria Documentation. Support to these operations include:

- 1) **Software Installation & Configuration** for the following products:
 - a) **Rimage Primo CD software:** records data to multiple CD ROMs
 - b) **Powerscan IDEA:** scans documents to TIFF images
 - c) **Doculex PDF capture:** scans documents to PDF files
 - d) **Solimar Print/Director:** handles mainframe (KIMS & Amdahl) printing

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- e) Xerox Digipath: scans and submits documents to the Docutech printers
- f) PLP Plotworks: scans and prints large format documents
- g) Wicks & Wilson Scan & Print: scans and prints aperture cards
- h) Roxio EasyCD: CD ROM recording software
- i) Novastor Novaxchange: reads 9-track tapes
- j) Adobe Acrobat: convert TIFF to PDF searchable files
- k) IMR Alchemy: document database for archival and retrieval
- l) KSC Viewer: used for viewing TIFF documents stored on CD ROM
- m) LSOC Indexer: builds an index of TIFF files stored on CDROM
- n) Barcode Fixer: repairs barcode information for scanned documents
- o) KEDS Viewer: used for viewing CAL files stored in KEDS system

2) System Administration for the following systems:

- a) Docutech Sun Workstations (3) running Solaris 2.6
- b) Docutech Scan Workstations (3) running Windows NT 4.0
- b) Powerscan Workstations (2) running Windows 98
- c) Doculex Workstation (1) running Windows 98
- d) Solimar Server (1) running Windows NT 4.0
- e) Plotworks Workstation (1) running Windows NT 4.0
- f) COLD Workstation (1) running Windows NT 4.0
- g) Xerox Splash Workstation (1) runs MACos
- h) CD-recording Workstations (4) running Windows 98
- i) Printshop Server (DE-NTS2) running Windows NT 4.0

3) Programming Support for CAL2WPF: used to convert TIFF files to Wilks & Wilson's WPF format

- **Material Safety Data Sheets (MSDS):** Provide support to the serving of JBOSC Material Safety Data Sheets on a Linux platform.
- **Engineering Software:** Engineering software products such as MATLAB, PV WAVE, and ILS are supported for use by NASA and contractors on the VMS Cluster.
- **Applicon Drawings:** The OpenVMS Cluster is the Repository for all of the old Applicon drawings, and also provides conversion services from Applicon to DXF format.

The NASA Labs and Testbeds Engineering organization

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performs analysis of all non-fluids related ground support equipment, utilizing Computer Aided Engineering (CAE) software, supplemented by other commercial software tools (Matlab, PVWave) on the engineering computers as needed. The Fluids engineering organization performs analysis on mechanical components on ground support fluids systems utilizing the same software tools. Other scientific software tools assisting engineering personnel include ILS (Interactive Laboratory System), and Visual FORTRAN.

YA04 Computer Aided Design/Computer Aided Engineering (CAD/CAE)

Category:	2
Computer:	JBOSC Server
Information Category:	BRT
Language:	N/A
DBMS Type:	N/A
Media:	
Interfaces:	None
Data Owner:	Melton, Greg
Data Owner Org:	YA-D1
Number of NASA Users:	200-300
Number of Non-NASA Users:	
Primary Customers:	NASA, JBOSC
Description:	<p>The CAD/CAE Systems and Support group provides Computer-related services to the JBOSC and NASA Engineering communities, including Windows NT Domain and Workstation administration; Network Services; Data Management and Server services; Windows Printing and Plotting services; Licensing services for MicroStation and Pro Engineer; Installation and Support services for MicroStation and Pro Engineer, Trouble Call services, support for standard Office applications, and Data Backup and Restore services. This level of support is provided to a Primary audience of approximately 175 End-Users, with casual support to an additional 150 MicroStation Users outside of our Primary audience. The CAD/CAE support group is the Primary Licensing and Support group for both MicroStation and Pro Engineer at KSC.</p> <p>The CAD/CAE support group directly maintains 7 Windows NT Servers (for Domain Administration, as well as File Serving). Most CAD/CAE Servers are standalone NT machines, while one of the Servers is a Level-5 RAID Fault Tolerant file server. The group also builds, configures and delivers the Workstations used by our JBOSC customers.</p>

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These are primarily Windows NT 4.0 and Windows 2000 Professional machines.

In addition to JBOSC-related support, the CAD/CAE group is responsible for the support of NASA-YA high-end Engineering customers. Services include installation, configuration, system administration and upgrades of government supplied CAD/CAM licensing software, CAD/CAM libraries, CAD/CAM PDM, associated administrative software, etc.; installation and upgrades of government supplied CAD/CAM applications and engineering analysis software loaded locally on user's computers; performing NT Engineering Server, daily and weekly incremental and full back-ups for all the CAD/CAM and engineering analysis workstations. Each workstation has a working area defined for each user and only that area is backed-up. The CAD/CAE group is also responsible for providing help desk service for users of CAD/CAM and engineering analysis workstations (i.e. problems involving printing, network communication, NT Admin Server access, workstation access, etc.)

Software Services and Customer Support

- Sustaining engineering services for MicroStation-SE and MicroStation-J and other Bentley/Intergraph software includes support for quarterly software updates, software distribution, installation, customer support, troubleshooting, and consulting.
- There are approximately 75 copies of MicroStation (Windows-based) under full maintenance at KSC. JBOSC procures 50 licenses and NASA procures 25 licenses. Additionally, there are currently approximately 50 seats of Pro Engineer (a high-end parametric 3D modeler) using licenses provided by NASA, being supported by the CAD/CAE Systems group.

CAD Printing/Plotting Support

- Plotting support generally involves resolution of network connectivity, file compatibility, metafile interpreter or font/pattern resource issues.
- Windows-based Print services generally involve connectivity and formatting issues relating to printing Office documents in large formats (i.e. printing Office documents on large format Cad Plotters.)

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Windows NT Support

- Most of the work involves the areas of Domain administration and providing Backup and Restore services for CAD customers. Currently two independent CAD_CAE Backup systems provide more than 200 Backup jobs per week.

- This effort generates several support requests each month and entails initial set-up, check out and delivery of new workstations.

Engineering Analysis Support: This area involves software evaluation and expert consulting where a more thorough level of technical analysis is needed. Typically, hardware and software are reviewed and matched up with very demanding technical requirements. In addition, custom high-end Engineering Hardware and Software solutions are configured, delivered and maintained, such as RAID-based redundant File/Project Management Servers for Pro-Engineer (Intralink), License Servers for MicroStation and Pro-Engineer, and File Servers for the Engineering community. Also routine PC support of the same customers and overall system integration is provided. A variety of special and ever-changing software drivers and interfaces are required for this support.

YA05 Airborne Field Mill (ABFM)

Category:	2
Computer:	JBOSC Server
Information Category:	
Language:	
DBMS Type:	
Media:	
Interfaces:	
Data Owner:	Merceret, Frank
Data Owner Org:	YA-D
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	
Description:	The Airborne Field Mill Project was conducted near Kennedy Space Center during June 2000, February 2001 and May/June 2001. It is a cooperative project between the NASA Kennedy Space Center, National Center for Atmospheric Research, NASA Marshall Space Flight Center, University of North Dakota, University of Arizona, NOAA National Hurricane Lab., and in Feb. 2001, the NOAA Environmental

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Technology Lab.

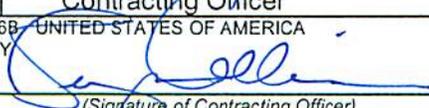
This web site contains plots and images of radar, airborne electric field, microphysics and lightning data recorded during the flights of the UND Citation and additionally, ongoing analysis of the different cases.

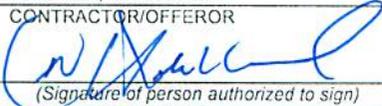
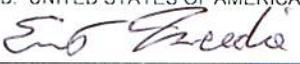
YA06 Tropical Rainfall Measurement Mission (TRMM)

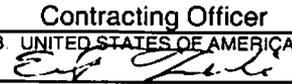
Category:	2
Computer:	Server
Information Category:	
Language:	ASP
DBMS Type:	
Media:	
Interfaces:	MIDDS, NASA Weather Office, LDAR
Data Owner:	Madura, John
Data Owner Org:	YA-D
Number of NASA Users:	1-10
Number of Non-NASA Users:	10-50
Primary Customers:	NASA, NCAR, GSFE, Universities
Description:	Spaceport Weather Data Archive

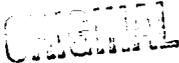
YA07 Meteorological Interactive Data Display System (MIDDS)

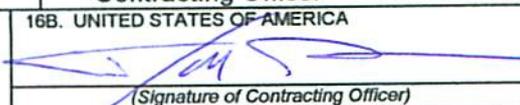
Category:	2
Computer:	JBOSC Server
Information Category:	
Language:	
DBMS Type:	
Media:	
Interfaces:	
Data Owner:	Madura, John
Data Owner Org:	YA-D
Number of NASA Users:	
Number of Non-NASA Users:	
Primary Customers:	
Description:	The data is a collection of wind and Doppler radar files containing various weather measurements collected from 45th WS 24/7.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 413		3. EFFECTIVE DATE see Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899			7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430			9A. AMENDMENT OF SOLICITATION NO.		
			9B. DATED (SEE ITEM 11)		
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
			10B. DATED (SEE ITEM 13) August 21, 1998		
CODE		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Contracting Officer for current Accounting & Appropriation Data					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
<input checked="" type="checkbox"/> D. OTHER (Specify type of modification and authority) Unilateral Mod/ Contract Article G-2, Contract Funding, and FAR 52.232-22, Limitation of Funds					
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return ___ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
The purpose of this unilateral modification is to obligate funding in the amount of \$26,585,275. These funds, when added to the amount already obligated on the contract, are estimated to be adequate for contract performance through June 21, 2007. This change revises Article G-2, as shown on the attached page.					
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bryce Collins Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY 		16C. DATE SIGNED 3/20/2007
(Signature of person authorized to sign)			(Signature of Contracting Officer)		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 414	3. EFFECTIVE DATE January 29, 2007	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899	CODE OPOS	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430			9A. AMENDMENT OF SOLICITATION NO.	
ORIGINAL			9B. DATED (SEE ITEM 11)	
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
			10B. DATED (SEE ITEM 13) August 21, 1998	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
1. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO. (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
X D. OTHER (Specify type of modification and authority) <i>Mutual Agreement of the Parties</i>				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>3</u> copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
<p>The purpose of this no cost modification is to correct the wage rate for Electricians as stated in Davis-Bacon Wage Determination (WD) FL030017, Mod 24, dated 9/1/06 which was incorporated into the contract by Modification 365, signed 9/8/06.</p> <p>As a result of the above, Section J, Attachment J-6-A, Davis-Bacon WD FL030017 dated 9/1/06, change Electricians from \$24.50 Rate and \$7.05 + 4.4% Fringes to read \$24.50 Rate and \$6.45 + 4.4% Fringes. This modification is effective 1/29/07, the date official notice was provided to SGS. All other terms and conditions of the contract remain unchanged.</p> <p>In consideration of the modification agreed to herein, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts and circumstances giving rise to the proposal for adjustment.</p>				
5A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ernest G. Tweedie Contracting Officer	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED 3/23/07	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	
			16C. DATE SIGNED 28 MAR 07	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTR. ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 415	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899 CODE OPOS		7. ADMINISTERED BY (If other than Item 6) CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430		9A. AMENDMENT OF SOLICITATION NO.		
		9B. DATED (SEE ITEM 11)		
		10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
		10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, <input type="checkbox"/> is not extended.				
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
<input checked="" type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.243-2 Changes - Cost Reimbursement (AUG 1987) Alt II (APR 1984)				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>3</u> copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
<p>The purpose of this modification is to extend the period of performance of the change order created by modification 396, Background Investigations and Badging Enrollment ID Verification (CCR 07-16), dated January 31, 2007. The following is hereby changed: change "The period of performance for this change order is 60 days from the execution of this change order" to "Definitization of this change order will occur not later than April 30 2007". The not to exceed amount of \$200,000 remains unchanged for this additional period.</p> <p>In consideration of the modification agreed to herein as complete equitable adjustment for the contractor's proposal for adjustment, the contractor hereby releases the government from any and all liability under this contract for further equitable adjustments attributable to such facts and circumstances giving rise to the proposal for adjustment.</p>				
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Ernest G. Tweedie Contracting Officer		
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)		15C. DATE SIGNED 3/29/07	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	
			16C. DATE SIGNED 3/30/07	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTR/) CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 416		3. EFFECTIVE DATE March 30, 2007		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (if applicable)		6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899		7. ADMINISTERED BY (if other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
				10B. DATED (SEE ITEM 13) August 21, 1998	
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
1. ACCOUNTING AND APPROPRIATION DATA (if required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor [X] is not, [] is required to sign this document and return 0 copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
<p>The purpose of this modification is to extend the definitization schedule identified in change order 395, implement partnered government decision packages 4a, Rev 3 (Eliminate PM for Exit and Emergency Lights on CCAFS), 5a, Rev 2 (Eliminate support for customer moves on CCAFS), 8a, Rev 3 (Reduce the CCAFS Type 2R FSEU maintenance support) and 9a, Rev 3 (Eliminate on-site staffing at Malabar Annex), dated January 12, 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 30 Mar 07" to "Definitization of this change order will occur not later than 31 May 07".</p> <p>All other terms and conditions remain unchanged and in full force and affect.</p>					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			Ernest G. Tweedie Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
(Signature of person authorized to sign)			 (Signature of Contracting Officer)		28 MAR 07

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT CODE	PAGE OF PAGES 1 1 w/attach	
2. AMENDMENT/MODIFICATION NO. 417		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899			7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.		
				9B. DATED (SEE ITEM 11)		
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
				10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
1. ACCOUNTING AND APPROPRIATION DATA (If required)						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
<input checked="" type="checkbox"/> D. OTHER (Specify type of modification and authority) Unilateral/FAR 52.245-5 Government Property (Cost Reimbursement, Time and Material, or Labor -Hour Contracts, (Jan 1986) FAR 52.243-2, Alternate II, Changes (Aug 1987) and FAR 45.302-3 (a)(6) Other Contracts						
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)						
<p>The purpose of this unilateral modification is to incorporate the requirement to lease a 75 Ton crane for the account of the Government as outlined in CCR 07-06. This crane is a direct replacement for Government furnished crane number 876007, which became unserviceable in October 2004. This settlement is for cost only with the exception of fee on the overhead and G&A costs as reflected in the attached table. The contractor failed to agree to the terms offered herein on March 27, 2007 therefore the modification is being issued unilaterally.</p> <p>The period of performance for this modification is October 1, 2004 through September 30, 2008. The total estimated amount of this contract change is \$477,544 (cost) and \$1,570 (fee) for a total of \$479,114. The fee adjusted for earned award fee in periods 13 through 16 is \$1,466. The total cost and fee of this modification adjusted for earned award fee is \$479,010. All remaining cost elements of CCR 07-06 not settled herein related to proposed fee are considered unallowable. This change revises Article B-3, Contract Value, Article G-2, Contract Funding, and B-4, Award Fee, as shown on attached pages.</p>						
5A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
				Timothy M. Freeland Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		4-11-07

ARTICLE B-3 CONTRACT VALUE			
Basic Period Sep 98-30 Sep 03			
The contract value is summarized below.			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Phase-In Period (FFP) (Sept 1998)	\$1,113,486		1,113,486
Basic Period Thru 395			
10/01/98-09/30/00	\$396,406,378	\$23,187,199	419,593,577
Neg. Cost Overrun MOD 135	\$9,200,000	\$0	9,200,000
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY99-FY00	\$405,606,378	\$23,187,199	428,793,577
(10/01/00-09/30/01)	\$215,635,118	\$13,106,768	228,741,886
Neg. Cost Overrun MOD 135	\$18,804,377	\$0	18,804,377
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY01	\$234,439,495	\$13,106,768	247,546,263
(10/01/01-09/30/02)	\$234,055,207	\$14,098,312	248,153,519
Neg. Cost Overrun MOD 135	\$19,865,904	\$0	19,865,904
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY02	\$253,921,111	\$14,098,312	268,019,423
(10/01/02-09/30/03)	\$247,365,902	\$15,357,411	262,723,313
Neg. Cost Overrun MOD 135	\$22,426,471	\$0	22,426,471
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY03	\$269,792,373	\$15,357,411	285,149,784
TOTAL BASIC PERIOD	\$1,164,872,843	\$65,749,690	1,230,622,533
Option Period 1 Oct 03 - 30 Sept 04			
Option 1A			
(10/01/03-09/30/04)	\$244,075,599	\$15,352,803	259,428,402
Neg. Cost Overrun MOD 135	\$22,135,767	\$0	22,135,767
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY04	\$266,211,366	\$15,352,803	281,564,169
Option 3BA			
(10/01/03-09/30/04)	\$2,322,030	\$185,762	2,507,792
Option 5BA			
(10/01/03-09/30/04)	\$321,092	\$25,687	346,779
TOTAL OPTION 1A PERIOD	\$268,854,488	\$15,564,252	284,418,740

Option Period 1 Oct 04 - 30 Sept 06			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Options Thru Mod 410			
OPTION 1B			
(10/01/04-09/30/05)	\$276,485,639	\$17,043,409	295,529,048
Neg. Cost Overrun MOD 135	\$25,895,945	\$0	25,895,945
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 417	\$118,908	\$364	\$119,270
Total FY05	\$304,500,490	\$17,043,773	321,544,263
(10/01/05-09/30/06)			
	\$261,614,576	\$14,037,706	275,652,282
Neg. Cost Overrun MOD 135	\$29,101,654	\$0	29,101,654
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 417	\$119,019	\$335	\$119,354
Total FY06	\$290,835,249	\$14,038,041	304,873,290
Option 3BB			
10/01/04-09/30/05	\$2,391,149	\$191,292	2,582,441
10/01/05-09/30/06	\$2,477,883	\$198,231	2,676,114
Total Option 3BB	\$4,869,032	\$389,523	5,258,555
Option 5BB			
10/01/04-09/30/05	\$331,342	\$26,507	357,849
10/01/05-09/30/06	\$331,781	\$26,542	358,323
Total Option 5BB	\$663,123	\$53,049	716,172
TOTAL OPTION 1B Period	\$600,867,894	\$31,524,386	632,392,280
Option Periods 1 Oct 06 - 30 Sep 08			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
OPTION 1C			
(10/01/06-9/30/07)	\$264,256,452	\$17,290,338	281,546,790
Neg. Cost Overrun MOD 135	\$31,867,270	\$0	31,867,270
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 417	\$120,418	\$389	120,807
Total FY07	\$296,244,140	\$17,290,727	313,534,867
(10/01/07-9/30/08)			
	\$269,350,239	\$17,585,577	286,935,816
Neg. Cost Overrun MOD 135	\$33,448,837	\$0	33,448,837
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 417	\$119,201	\$378	119,579
Total FY08	\$302,918,277	\$17,585,955	320,504,232

	Option Periods 1 Oct 06 - 30 Sep 08 Cont.		
Option 3BC			
10/01/06-09/30/07	\$2,539,810	\$203,185	2,742,995
10/01/07-09/30/08	\$2,621,598	\$209,728	2,831,326
Total Option 3BC	\$5,161,408	\$412,913	5,574,321
Option 4BB			
10/01/04-09/30/05	\$0	\$0	0
10/01/05-09/30/06	\$0	\$0	0
Total Option 4BB	\$0	\$0	0
Option 4BC			
10/01/06-09/30/07	\$0	\$0	\$0
10/01/07-09/30/08	\$0	\$0	\$0
Total Option 4BC	\$0	\$0	\$0
Option 5BC			
10/01/06-09/30/07	\$332,204	\$26,576	358,780
10/01/07-09/30/08	\$341,511	\$27,321	368,832
Total Option 5BC	\$673,715	\$53,897	727,612
TOTAL OPTION 1C Period	\$604,997,540	\$35,343,492	640,341,032
TOTAL CONTRACT			
VALUE SEP98-SEP08	\$2,639,592,765	\$148,181,820	\$2,787,774,585
*Earned fees for past periods plus the available fees for future periods			
Exercised options are moved above the Total Contract Value Line.			

ARTICLE B-4 AWARD FEE

The amount of award fee earned, if any, shall be determined in accordance with Section J, Attachment J-8, Award Fee Evaluation Plan, and other provisions of this contract as applicable. The following specifies by award fee period the amount of available award fee, the amount of earned award fee, and the award fee score.

AF P	BASIC PERIOD OF PERFORMANCE		Available Award Fee Through Mod 410	Total Award Fee For Mod 417	Adjusted Available Award Fee	Earned Award Fee Mod 410	Earned Award Fee Mod 417	Earned Award Fee	Award Fee Score and Mod
1	10/01/98	03/31/99	\$7,681,869		\$7,681,869	\$6,146,144		\$6,146,144	80% Mod 15
2	04/01/99	09/30/99	\$6,033,858		\$6,033,858	\$4,826,665		\$4,826,665	80% Mod 36
3	10/01/99	03/31/00	\$7,837,000		\$7,837,000	\$6,731,039		\$6,731,039	86% Mod 57
4	04/01/00	09/30/00	\$6,451,003		\$6,451,003	\$5,483,352		\$5,483,352	85% Mod 75
5	10/01/00	03/31/01	\$7,589,239		\$7,589,239	\$6,754,934		\$6,754,934	89% Mod 99
6	04/01/01	09/30/01	\$6,976,249		\$6,976,249	\$6,348,388		\$6,348,388	91%Mod118
7	10/01/01	03/31/02	\$5,863,642		\$5,863,642	\$5,336,408		\$5,336,408	91%Mod127
8	04/01/02	09/30/02	\$9,798,867		\$9,798,867	\$8,765,356		\$8,765,356	92%Mod147
9	10/01/02	03/31/03	\$8,121,627		\$8,121,627	\$7,634,968		\$7,634,968	94%Mod167
10	04/01/03	09/30/03	\$8,128,883		\$8,128,883	\$7,722,439		\$7,722,439	95%Mod194
11	10/01/03	03/31/04	\$7,899,317		\$7,899,317	\$7,583,343		\$7,583,343	96%Mod220
12	04/01/04	09/30/04	\$8,227,738		\$8,227,738	\$7,980,906		\$7,980,906	97%Mod248
13	10/01/04	03/31/05	\$9,788,138	\$166	\$9,788,304	\$9,103,283	\$154	\$9,103,437	93%Mod 283
14	04/01/05	09/30/05	\$8,964,909	\$231	\$8,965,140	\$8,157,926	\$210	\$8,158,136	91%Mod325
15	10/01/05	03/31/06	\$9,221,294	\$200	\$9,221,494	\$7,561,463	\$164	\$7,561,627	82%Mod350
16	04/01/06	09/30/06	\$8,093,014	\$206	\$8,093,220	\$6,701,016	\$171	\$6,701,187	82.8%Mod393
17	10/01/06	03/31/07	\$8,807,747	\$200	\$8,807,947				
18	04/01/07	09/30/07	\$8,712,351	\$189	\$8,712,540				
19	10/01/07	03/31/08	\$8,894,803	\$189	\$8,894,992				
20	04/01/08	09/30/08	\$8,927,823	\$189	\$8,928,012				
GRAND TOTAL			\$162,019,371	\$1,570	\$162,020,941			\$148,181,820	Earned & Available

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 418	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (if applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899		7. ADMINISTERED BY (if other than item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Comer Park, Suite 500 Herndon, VA 20171-3430 DUPLICATE ORIGINAL			9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
			10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
			10B. DATED (SEE ITEM 13) August 21, 1998	
CODE	FACILITY CODE	11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS		
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of offers is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified. 1. ACCOUNTING AND APPROPRIATION DATA (if required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
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C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
X	D. OTHER (Specify type of modification and authority) Unilateral/FAR 52.245-5 Government Property (Cost Reimbursement, Time and Material, or Labor -Hour Contracts, (Jan 1986) FAR 52.243-2, Alternate II, Changes (Aug 1987) and FAR 45.302-3 (a)(6) Other Contracts			
E. IMPORTANT: Contractor [XX] is not, <input type="checkbox"/> is required to sign this document and return 3 copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
<p>The purpose of this unilateral modification is to incorporate the requirement to lease a 90 ton crane for the account of the Government as outlined in CCR 06-64. This crane is a direct replacement for Government furnished crane number 81D00230, which became unserviceable in November 2004. This settlement is for cost only with the exception of fee on the overhead and G&A costs as reflected in the attached table. The contractor failed to agree to the terms offered herein on March 27, 2007 therefore the modification is being issued unilaterally.</p> <p>The period of performance for this modification is March 1, 2005 through September 30, 2008. The total estimated amount of this contract change is \$499,037 (cost) and \$1,636 (fee) for a total of \$500,673. The fee adjusted for earned award fee in periods 13 through 16 is \$1,565. The total for this modification adjusted for earned award fee is \$500,602. All remaining cost elements of CCR 06-64 not settled herein related to proposed fee are considered unallowable. This change revises Article B-3, Contract Value, Article G-2, Contract Funding, B-4, Award Fee, and Technical Exhibit J5-3.2.2-02, as shown on attached pages.</p> <p>Except as provided herein, all terms and conditions of the document referenced in item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect</p>				
5A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Timothy M Freeland Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED 27 APR 07
(Signature of person authorized to sign)		(Signature of Contracting Officer)		

ARTICLE B-3 CONTRACT VALUE			
Basic Period Sep 98-30 Sep 03			
The contract value is summarized below:			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Phase-In Period (FFP) (Sept 1998)	\$1,113,486		1,113,486
Basic Period Thru 395			
10/01/98-09/30/00	\$396,406,378	\$23,187,199	419,593,577
Neg. Cost Overrun MOD 135	\$9,200,000	\$0	9,200,000
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY99-FY00	\$405,606,378	\$23,187,199	428,793,577
(10/01/00-09/30/01)	\$215,635,118	\$13,106,768	228,741,886
Neg. Cost Overrun MOD 135	\$18,804,377	\$0	18,804,377
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY01	\$234,439,495	\$13,106,768	247,546,263
(10/01/01-09/30/02)	\$234,055,207	\$14,098,312	248,153,519
Neg. Cost Overrun MOD 135	\$19,865,904	\$0	19,865,904
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY02	\$253,921,111	\$14,098,312	268,019,423
(10/01/02-09/30/03)	\$247,365,902	\$15,357,411	262,723,313
Neg. Cost Overrun MOD 135	\$22,426,471	\$0	22,426,471
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY03	\$269,792,373	\$15,357,411	285,149,784
TOTAL BASIC PERIOD	\$1,164,872,843	\$65,749,690	1,230,622,533
Option Period 1 Oct 03 - 30 Sept 04			
Option 1A			
(10/01/03-09/30/04)	\$244,075,599	\$15,352,803	259,428,402
Neg. Cost Overrun MOD 135	\$22,135,767	\$0	22,135,767
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
Total FY04	\$266,211,366	\$15,352,803	281,564,169
Option 3BA			
(10/01/03-09/30/04)	\$2,322,030	\$185,762	2,507,792
Option 5BA			
(10/01/03-09/30/04)	\$321,092	\$25,687	346,779
TOTAL OPTION 1A PERIOD	\$268,854,488	\$15,564,252	284,418,740

Option Period 1 Oct 04 - 30 Sept 06			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Options Thru Mod 410			
OPTION 1B			
(10/01/04-09/30/05)	\$278,604,545	\$17,043,773	295,648,318
Neg. Cost Overrun MOD 135	\$25,895,945	\$0	25,895,945
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 418	\$69,032	\$210	\$69,242
Total FY05	\$304,569,522	\$17,043,983	321,613,505
(10/01/05-09/30/06)	\$261,733,595	\$14,038,041	275,771,636
Neg. Cost Overrun MOD 135	\$29,101,654	\$0	29,101,654
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 418	\$82,008	\$227	\$82,235
Total FY06	\$290,917,257	\$14,038,268	304,955,525
Option 3BB			
10/01/04-09/30/05	\$2,391,149	\$191,292	2,582,441
10/01/05-09/30/06	\$2,477,883	\$198,231	2,676,114
Total Option 3BB	\$4,869,032	\$389,523	5,258,555
Option 5BB			
10/01/04-09/30/05	\$331,342	\$26,507	357,849
10/01/05-09/30/06	\$331,781	\$26,542	358,323
Total Option 5BB	\$663,123	\$53,049	716,172
TOTAL OPTION 1B Period	\$601,018,934	\$31,524,823	632,543,757
Option Periods 1 Oct 06 - 30 Sep 08			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
OPTION 1C			
(10/01/06-9/30/07)	\$264,376,870	\$17,290,727	281,667,597
Neg. Cost Overrun MOD 135	\$31,867,270	\$0	31,867,270
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 418	\$208,929	\$687	209,616
Total FY07	\$296,453,069	\$17,291,414	313,744,483
(10/01/07-9/30/08)	\$269,469,440	\$17,585,955	287,055,395
Neg. Cost Overrun MOD 135	\$33,448,837	\$0	33,448,837
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 418	\$139,068	\$441	139,509
Total FY08	\$303,057,345	\$17,586,396	320,643,741

Option Periods 1 Oct 06 - 30 Sep 08 Cont.			
Option 3BC			
10/01/06-09/30/07	\$2,539,810	\$203,185	2,742,995
10/01/07-09/30/08	\$2,621,598	\$209,728	2,831,326
Total Option 3BC	\$5,161,408	\$412,913	5,574,321
Option 4BB			
10/01/04-09/30/05	\$0	\$0	0
10/01/05-09/30/06	\$0	\$0	0
Total Option 4BB	\$0	\$0	0
Option 4BC			
10/01/06-09/30/07	\$0	\$0	\$0
10/01/07-09/30/08	\$0	\$0	\$0
Total Option 4BC	\$0	\$0	\$0
Option 5BC			
10/01/06-09/30/07	\$332,204	\$26,576	358,780
10/01/07-09/30/08	\$341,511	\$27,321	368,832
Total Option 5BC	\$673,715	\$53,897	727,612
TOTAL OPTION 1C Period	\$605,345,537	\$35,344,620	640,690,157
TOTAL CONTRACT			
VALUE SEP98-SEP08	\$2,640,091,802	\$148,183,385	\$2,788,275,187
*Earned fees for past periods plus the available fees for future periods			
Exercised options are moved above the Total Contract Value Line.			

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 419		3. EFFECTIVE DATE April 13, 2007		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (if applicable)		6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899			
7. ADMINISTERED BY (if other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001	
				10B. DATED (SEE ITEM 13) August 21, 1998	
CODE	FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, <input type="checkbox"/> is not extended.					
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:					
(a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
1. ACCOUNTING AND APPROPRIATION DATA (if required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
X	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
	D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor [X] is not, [] is required to sign this document and return 0 copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
<p>The purpose of this modification is to extend the definitization schedule identified in change order 367, reductions for Fire and Security at the North CCAFS ITL Area, dated September 15, 2006 as amended by modification 382, dated December 8, 2006, modification 394, dated January 12, 2007 and modification 411, dated February 28, 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 13 Apr 07" to "Definitization of this change order will occur not later than 16 May 07".</p> <p>All other terms and conditions remain unchanged and in full force and affect.</p>					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			Ernest G. Tweedie Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
				Ernest G. Tweedie	
(Signature of person authorized to sign)				(Signature of Contracting Officer)	
				12 APR 07	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 420	3. EFFECTIVE DATE see Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899	CODE OPOS	7. ADMINISTERED BY (If other than Item 6)		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and Zip Code) Space Gateway Support 2411 Dulles Corner Park, Suite 500 Herndon, VA 20171-3430		9A. AMENDMENT OF SOLICITATION NO.		
		9B. DATED (SEE ITEM 11)		
		10A. MODIFICATION OF CONTRACT/ORDER NO. NAS10-99001		
		10B. DATED (SEE ITEM 13) August 21, 1998		
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning ___ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required) See Contracting Officer for current Accounting & Appropriation Data				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
<input checked="" type="checkbox"/> D. OTHER (Specify type of modification and authority) Unilateral Mod/ Contract Article G-2, Contract Funding, and FAR 52.232-22, Limitation of Funds				
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return ___ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)				
The purpose of this unilateral modification is to obligate funding in the amount of \$30,096,412. These funds, when added to the amount already obligated on the contract, are estimated to be adequate for contract performance through July 27, 2007. This change revises Article G-2, as shown on the attached page.				
Except as provided herein, all terms and conditions of the document referenced in Item 9a or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		Bryce D. Collins Contracting Officer		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY	16C. DATE SIGNED	
(Signature of person authorized to sign)		Bryce D. Collins (Signature of Contracting Officer)	4/17/2007	

