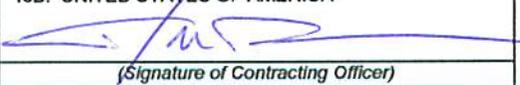
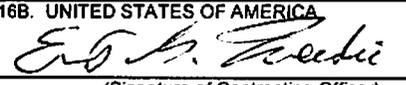
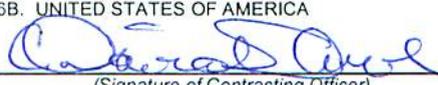
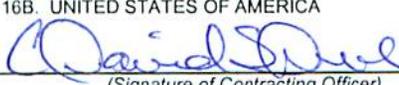


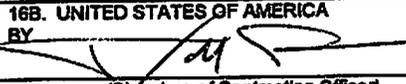
AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 421		3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space 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 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 as amended by modification 415, dated March 30, 2007. The following is hereby changed: change "Definitization of this change order will occur not later than April 30 2007" to "Definitization of this change order will occur not later than May 31 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 <i>Victoria Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED 4/25/07	16B. UNITED STATES OF AMERICA <i>Ernest G. Tweedie</i> (Signature of Contracting Officer)		16C. DATE SIGNED 4/26/07

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 422		3. EFFECTIVE DATE April 26, 2007		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			
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 <u>0</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 definitization schedule identified in change order 403, reductions for 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), dated February 7, 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order is expected to occur not later than 30 Apr 07" to "Definitization of this change order is expected to occur not later than 30 June 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)		
			Timothy M. Freeland Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
					
(Signature of person authorized to sign)				(Signature of Contracting Officer)	
				26 Apr 2007	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. 423		3. EFFECTIVE DATE April 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			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 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.						
<input checked="" type="checkbox"/> 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.						
<input type="checkbox"/> 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 type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
<input type="checkbox"/> 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 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 404, reductions for partnered government decision packages numbers 17b (Reduce CCAFS estimator support) and 45b (Reduce Heavy Equipment Support), dated February 7, 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order is expected to occur not later than 30 Apr 07" to "Definitization of this change order is expected to occur not later than 29 June 07".</p> <p>Please note that the decision package for WBS 2.2.2 (Reduce pest control – termite inspection & mosquito spraying) is being accomplished as a separate Contract Article B-5 action and is not a part of change order 404.</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
						26 Apr 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. 424		3. EFFECTIVE DATE 30 April, 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.						
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 405, VOM Reductions, dated February 07, 2007.						
SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 30 Apr 07" to "Definitization of this change order will occur not later than 30 June 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		16C. DATE SIGNED
(Signature of person authorized to sign)						30 Apr 07
				(Signature of Contracting Officer)		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 425		3. EFFECTIVE DATE 30 April, 2007		4. REQUISITION/PURCHASE REQ. NO.	
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.					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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 type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
<input type="checkbox"/> 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 <u>0</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 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 and modification 409, dated 15 February 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 30 Apr 07" to "Definitization of this change order will occur not later than 10 June 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)	
				C. DAVID SHREVE Contracting Officer	
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA	
				 (Signature of Contracting Officer)	
(Signature of person authorized to sign)				16C. DATE SIGNED 30 Apr 07	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 426		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			9A. AMENDMENT OF SOLICITATION NO.		
DUPLICATE 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.					
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.)					
<p>The purpose of this unilateral modification is to obligate funding in the amount of \$120,618. These funds, when added to the amount already obligated on the contract, are estimated to be adequate for contract performance through July 27, 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)		
			Timothy M. Freeland Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY		16C. DATE SIGNED
<i>(Signature of person authorized to sign)</i>					5/11/2007
			<i>(Signature of Contracting Officer)</i>		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTROL ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 427		3. EFFECTIVE DATE May 16, 2007		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		7. ADMINISTERED BY (If other than Item 6) CODE			
6. ISSUED BY John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899		CODE OPOS			
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 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, modification 411, dated February 28, 2007. and modification 419, dated April 12, 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 16 May 07" to "Definitization of this change order will occur not later than 8 Jun 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
					15 MAY 07
(Signature of person authorized to sign)				(Signature of Contracting Officer)	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 33
2. AMENDMENT/MODIFICATION NO. 428		3. EFFECTIVE DATE See Block 14	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.					
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 Pursuant to FAR 52.243-2 Changes – Cost Reimbursement (AUG 1987) Alt II (APR 1984)					
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 modification is to accept the Atlas/Titan descope proposal (CCRs 05-41/05-54) dated July 14, 2006 as updated during negotiations to provide for an equitable adjustment for the descope of Atlas and Titan support. This action also definitizes Change Order 367 for North CCAFS (ITL) Security and Fire Reductions. CIP 96 is addressed under separate cover. The performance period for this Atlas/Titan descope is 1 October 2005 through 30 September 2008 and 15 September 2006 through 30 September 2008 for the North CCAFS (ITL) Security and Fire Reductions. The total contract estimated cost and fee is decreased by (\$14,919,837) in cost and (\$1,101,013*) in fee for a total decrease of (\$16,020,850). As a part of this action and reflected in the above amount Change Order 367 is definitized at (\$3,198,761) in cost and (\$242,422) in fee for a total decrease of (\$3,441,183).</p> <p>This change revises Article B-3, Contract Value; Article B-4, Award Fee; Article G-2 Contract Funding; SOW 3.1.1.1, Fire Stations; 3.1.1.2, Fire Equipment and Services; 3.1.1.9, Fire Inspection and Prevention; 3.1.1.14, Immediate Danger to Life or Health Rescue Program; 3.1.1.15, On Site Standby Technical Rescue; Attachment J-5, Technical Exhibit Listing, Attachment J-12, Workload Indicator WBS 1.1 and Technical Exhibits 2.2.2.3B, CCAFS Refuse Collection Sites and Frequencies; 5.5-826, CCAFS Grounds Areas and Requirements; and 3.1.2-03, Baseline Realignment Security Posture for FY04-08 and adds new Technical Exhibit 3.1.1-01, Hazardous Operations Requiring CCAFS Fire Department Standbys are shown on the attached pages. All other terms and conditions of the contract remain unchanged. Modification 428 is issued subsequent to modifications 429 through 432 which is reflected in Contract Articles B-3, B-4 and G-2.</p> <p>*The contractor shall credit a future award fee voucher to reflect the decrease resulting from this modification for award fee periods 15 through 17. Award fee adjusted for these three periods to reflect earned award fee percentage.</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)		
			Ernest G. Tweedie Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
					4 JUN 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 432			
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

<u>Option Period 1 Oct 04 - 30 Sept 06</u>			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Options Thru Mod 432			
OPTION 1B			
(10/01/04-09/30/05)	\$278,673,577	\$17,043,983	295,717,560
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	\$304,569,522	\$17,043,983	321,613,505
(10/01/05-09/30/06)	\$261,815,603	\$14,038,268	275,853,871
Neg. Cost Overrun MOD 135	\$29,101,654	\$0	29,101,654
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 428	(\$3,357,690)	(\$221,265)	(\$3,578,955)
Total FY06	\$287,559,567	\$13,817,003	301,376,570
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	\$597,661,244	\$31,303,558	628,964,802
<u>Option Periods 1 Oct 06 - 30 Sep 08</u>			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
OPTION 1C			
(10/01/06-9/30/07)	\$265,852,878	\$15,630,254	281,483,132
Neg. Cost Overrun MOD 135	\$31,867,270	\$0	31,867,270
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 428	(\$5,664,693)	(\$407,953)	(6,072,646)
Total FY07	\$292,055,455	\$15,222,301	307,277,756
(10/01/07-9/30/08)	\$269,977,075	\$17,615,881	287,592,956
Neg. Cost Overrun MOD 135	\$33,448,837	\$0	33,448,837
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 428	(\$5,897,454)	(\$471,795)	(6,369,249)
Total FY08	\$297,528,458	\$17,144,086	314,672,544

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	\$595,419,036	\$32,833,197	628,252,233
TOTAL CONTRACT			
VALUE SEP98-SEP08	\$2,626,807,611	\$145,450,697	\$2,772,258,308
*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 432	Total Award Fee For Mod 428	Adjusted Available Award Fee	Earned Award Fee Mod 432	Earned Award Fee Mod 428	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	\$9,788,304		\$9,788,304	\$9,103,437		\$9,103,437	93%Mod 283
14	04/01/05	09/30/05	\$8,965,371		\$8,965,371	\$8,158,346		\$8,158,346	91%Mod325
15	10/01/05	03/31/06	\$9,221,727	(\$143,535)	\$9,078,192	\$7,561,818	(\$117,699)	\$7,444,119	82%Mod350
16	04/01/06	09/30/06	\$8,093,264	(\$125,080)	\$7,968,184	\$6,701,223	(\$103,566)	\$6,597,657	82.8%Mod393
17	10/01/06	03/31/07	\$8,812,622	(\$226,119)	\$8,586,503	\$7,050,095	(\$180,895)	\$6,869,200	80%Mod430
18	04/01/07	09/30/07	\$8,809,919	(\$227,058)	\$8,582,861				
19	10/01/07	03/31/08	\$8,916,783	(\$238,646)	\$8,678,137				
20	04/01/08	09/30/08	\$8,936,146	(\$233,149)	\$8,702,997				
GRAND TOTAL			\$162,153,428	(\$1,193,587)	\$160,959,841			\$145,450,696	Earned & Available

ARTICLE G-2		CONTRACT FUNDING				
Pursuant to FAR Clause 52.232.22, Limitation of Funds, funds presently allotted to this contract and the period through which they are estimated to be adequate are specified in the table below:						
The below table is created with the beginning values based on modification 371						
<u>As of MOD</u>	<u>Contract Value</u>	<u>Funded Cost</u>	<u>Funded Fee</u>	<u>Total Funded Cost/Fee</u>	<u>ADEQUATE THROUGH</u>	
Subtotal as of Mod 371	\$2,807,573,014	\$2,031,284,171	\$163,520,197	\$ 2,194,804,368	12/8/2006	
374	\$462,548					
376		\$3,239,869	\$259,190.00	\$ 3,499,059	12/15/2006	
377	\$244,132					
378	(\$13,628,301)					
379	(\$2,553,358)					
383		\$45,590,925	\$3,647,274	\$ 49,238,199	3/20/2006	
384	\$121,375					
385	(\$703,275)					
388	\$207,277					
389		\$14,362,829	\$1,149,027	\$ 15,511,856	2/13/2007	
391	(\$1,384,405)					
392	\$1,494,374					
393	(\$1,391,489)					
397	(\$1,733,940)					
399		\$69,924,188	\$5,593,935	\$ 75,518,123	5/16/2007	
408		\$2,608,945	\$208,716	\$ 2,817,661	5/20/2007	
410	(\$1,412,377)					
413		\$24,615,995	\$1,969,280	\$ 26,585,275	6/21/2007	
417	\$479,010					
418	\$500,602					
420		\$27,867,048	\$2,229,364	\$ 30,096,412	7/27/2007	
426		\$111,683	\$8,935	\$ 120,618		
428	(\$16,020,850)					
429		\$10,173,418	\$813,873	\$ 10,987,291	8/10/2007	
430	(\$1,761,683)					
431	\$1,765,654					
TOTAL	\$2,772,258,308	\$2,229,779,071	\$179,399,791	\$2,409,178,862		

3.1.1 Fire Protection Program

The contractor shall provide a comprehensive, professionally managed fire prevention, fire protection, and emergency services program for NASA-KSC, CCAFS, and Florida Annexes. Activities include: flight crew; high angle; confined space; aircraft; structural; vehicle and fire rescue; fire fighting; Return To Launch Sites (RTL) support; emergency response and standbys per Technical Exhibit # 3.1.1-01; consolidated training per agency requirements; aircraft and facility pre-fire plans; fire inspection; fire permits (Burn/Petroleum, Oil, and Lubricants (POL)); fire prevention education, inspection and maintenance of fire extinguishers; fire protection engineering; and fire hydrant flow testing. National Fire Incident Reporting System (NFIRS); and hazardous material emergency response support; support technical fire and rescue investigations; emergency medical services, and other agreed to services with outside entities. The fire department shall maintain fire investigative unit personnel that are trained to complete timely and accurate investigations of fires at KSC, CCAFS, and the Florida Annexes. The contractor's Fire Chief shall actively participate in the local area mutual aid program. (Mod 428)

The contractor shall standardize uniforms, turn-out gear, Self-Contained Breathing Apparatus (SCBA), and associated equipment.

The contractor shall centralize the fire department's rapid response of Advanced Life Support (ALS) Emergency Medical Services (EMS), including transport, to provide services for KSC and CCAFS.

The fire department shall manage all emergency operations, large or small, with a consistent, nationally accepted Incident Management System that complies with NFPA. Personal Accountability on the incident scene shall be a priority consideration by the fire department's Incident Commander and shall be managed in compliance with NFPA.

The mission focus of the fire department shall be fire prevention. This mission shall be supported by the department's operations level, training and education section, and fire prevention unit, as well as through the use of required engineering disciplines to support the prevention posture of the fire department. The fire department shall use a system of work and personnel asset management to support the required missions of KSC, CCAFS, and the Florida Annexes.

The fire prevention unit shall, through a planned inspection program, continually assess the fire-safe posture of KSC, CCAFS, and the Florida Annexes based upon NFPA and State of Florida standards and requirements. The contractor shall identify problem areas and immediately correct imminent danger situations. All inspections shall be documented, with follow-up and closure activities, to ensure that deficiencies are corrected. The fire prevention unit shall test, inspect, and ensure the maintenance of fire extinguishers at KSC, CCAFS, and the Florida Annexes, according to NFPA's inspection frequency requirements. As part of its public fire and safety education programs the fire department shall provide periodic publications focused on fire prevention and safety.

3.1.1.1 Fire Stations. The fire department shall staff 5 fire stations in 2 divisions, 24 hours a day, 365 days a year, to meet the emergency response mission of KSC and CCAFS. The KSC shall have 1 task force station and 2 satellite stations and CCAFS shall have 1 task force station and 1 satellite station that are staffed to handle emergencies based against defined response matrixes. All emergency responses shall comply with OSHA 1910.134 requirements for required personnel on scene to enter a

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Deleted: Each division shall have 1 task force station and 2 satellite stations

fire area. Emergency response at the Florida Annexes shall be accomplished through local mutual aid agreements. (Mod 428)

3.1.1.2 Fire Equipment and Services. The fire department shall conduct formalized shift turnover meetings to ensure that all on-duty personnel are informed of activities scheduled for their shift, including special scheduled work details, training requirements, and any special activities. Each shift shall perform detailed inspections of all emergency response apparatus and equipment, inspect their protective clothing, and ensure that all emergency response elements are functional. All fire apparatus pumps shall be tested annually per NFPA 1911; all aerial ladders shall be tested annually per NFPA 1914; and all ground ladders shall be tested annually per NFPA 1931. All fire department SCBA shall be tested and maintained annually per NFPA 1404 and manufacturer's requirements. All fire hoses shall be tested annually per NFPA 1962. The **Chief Officer**, with responsibility for the fire apparatus and equipment at the Shuttle Landing Area, shall ensure that all equipment is inspected daily. The Shuttle Landing Facility (SLF) shall be manned during all aircraft operations outlined in Federal Aviation Regulation (FAR) Part 139. All fire department personnel shall be trained and qualified to respond to all aircraft take-offs and landings, to include aircraft emergencies and shuttle landings at KSC and CCAFS, in compliance with NFPA 403 and Federal Aviation Regulation (FAR) Part 139. (Mod 428)

Deleted: Division Chief

In addition, all fire department personnel shall be trained and equipped to respond to shipboard emergencies at the port. All emergency service and daily communications for the fire department shall be managed through the Joint Communications Control Center (JCCC). The fire department's Incident Commander on scene shall manage all emergency operations; all communications shall be through the dispatch center.

3.1.1.3 Response and Standbys. The fire department shall support all stand-by requirements of NASA-KSC and CCAFS through an "in-district" response readiness posture. In-district is defined as "fire rescue personnel and equipment to include Emergency Medical Service are available for immediate response to a scheduled hazardous operation within their response district in the event of an incident. They are not necessarily positioned in their respective station but may be in their geographical response district."

The fire department shall provide a rapid intervention crew to provide emergency back-up during interior fire ground operations when they exceed initial response guidelines. This concept of emergency response shall ensure that the required manpower and equipment are on scene and available to safely manage, contain, control, and mitigate emergencies at KSC and CCAFS. In addition, the fire department shall maintain, on each shift, personnel required to handle hazardous materials emergencies, special rescue emergencies, and emergency medical situations.

3.1.1.4 Rescue and Firefighting. The fire department shall meet all customer requirements for Orbiter flight crew rescue and response to Return to Launch Site Services (RTLs) and landing mishaps at KSC and CCAFS. The fire department shall support all training and demonstration requirements requested by the customer. All emergency response activities shall be compliant with OSHA requirements for required personnel on scene to enter a fire area.

3.1.1.5 Protective Clothing. All emergency service protective clothing (such as turn-out gear, Aircraft Rescue and Fire Fighting [ARFF] suits, HAZMAT suits, and uniforms) shall meet all current NFPA 1971, NFPA 1976, and OSHA requirements.

3.1.1.6 Health Examination and Physical Fitness. All combat/operations fire department personnel shall receive an annual medical physical based against an ergonomic review of the critical attributes required for emergency service operations. To ensure employee wellness, the fire department shall have physical fitness exercise requirements. Personnel shall exercise for a prescribed length of time during each on-duty shift. The fire department shall run an annual physical requirements test, which meets the requirements of NFPA 1500, based against the normal functions required on the fire ground. The test shall be used to establish a physical fitness baseline for each employee.

3.1.1.7 Minimum Personnel Qualifications. All fire department personnel assigned to combat operations shall meet Firefighter 2 and ARFF Firefighter qualifications. All firefighters who hold the rank of Driver shall be qualified to operate assigned fire apparatus (Structural/ARFF). Fire officers shall be qualified as Fire Officer I. Fire department training personnel shall meet Fire Instructor I qualifications. All fire inspection personnel assigned to perform fire inspections shall meet Fire Inspection I qualifications. Personnel assigned to perform as firefighter-paramedics shall meet all qualifications set forth by the contractor Medical Director and the State of Florida. All personnel assigned to perform specialized tasks, such as Astronaut Rescue, Technical Rescue, and Hazardous Material response shall be trained and qualified to perform said operations.

3.1.1.8 Fire Department Training. The fire department shall provide a fire service-training program that meets the requirements of OSHA and the NFPA Professional Qualifications standards. This training program shall provide classroom training from lesson plans, practical factor check-offs for required skills, drills, interactive exercises with support assets, college credit education programs, and evaluated drills.

All fire department members with an emergency response mission shall be required to meet annual training requirements consisting of the following: SCBA training, live fire training, driver training, HAZMAT training, a minimum of 12 fire training sessions, aircraft rescue and fire fighting, safety training, and fire prevention training. Additional requirements shall be assigned to meet the mission requirements of special skills training and the customer. All personnel assigned to the fire prevention unit shall receive training and course education on the requirements of their job (such as fire prevention inspections, testing of fire alarm systems, testing and maintenance of sprinkler systems, and fire extinguisher inspections). The fire department training program shall also run drills to ensure that all customer-established response times are maintained.

3.1.1.9 Fire Inspection and Prevention. The contractor shall develop and maintain a Fire Inspection program. The contractor shall participate in facility or operational walk downs as required by OMI. The contractor shall identify all reportable fire discrepancies and track these until closure. The contractor shall coordinate inspections and discrepancy closure with the SFOC, CAPPs, and other contractors.

Permits. The contractor shall prioritize and issue permits (Burn/POL) for scheduled, as well as short-notice, welding and burning/POL operations in all areas of KSC, CCAFS, and the Florida Annexes, except when other contractors may be responsible for issuing permits. Preceding the start of work AF request must be submitted 72 hours in advance and NASA request are 48 hours prior (Mod 428).

Fire Extinguishers. The contractor shall select, purchase, install, and inspect portable fire extinguishers for those facilities, and areas identified by the customer, in accordance

Deleted: Requests for permits shall be submitted at least 48 hours before the start of work.

Deleted: all facilities, and areas where portable extinguishers are required,

with NFPA 10. However, fire inspectors are only required to inspect fire extinguishers at KSC/CCAFS and Florida Annexes during the regularly scheduled facility inspection. [\(Mod 428\)](#)

Fire Prevention Education. The contractor shall conduct fire evacuation drills and train the KSC/CCAFS and Florida Annexes populace in maintaining good fire safety habits, recognizing and eliminating fire hazards, reporting fire or emergency situations and evacuating facilities identified by customers. The contractor shall ensure that fire protection requirements are included in activities and projects on KSC/CCAFS. [\(Mod 428\)](#)

Deleted: when required

3.1.1.10 Fire Protection Engineering. The contractor shall develop and implement a Fire Protection Engineering Program that shall govern KSC, CCAFS, and Florida Annexes. The contractor shall provide Fire Risk Analyses and Fire Protection Engineering Surveys for required NASA and USAF facilities.

The contractor shall witness all final acceptances of fire protection systems to ensure compliance with all applicable codes and standards.

The contractor shall perform review and support functions for design reviews on all new projects and modifications, including designs performed by other contractors. At a minimum, the initial and final stages of projects and modifications shall be reviewed.

3.1.1.11 Hazardous Material Emergency Response Support. The contractor shall respond to and mitigate all hazardous material spills or releases at KSC/CCAFS. Initial response to hazardous material incidents and spills at Florida Annexes shall be accomplished through Mutual Aid Agreements. The contractor shall respond as needed and shall follow-up on all hazardous materials incidents at these locations. The contractor shall maintain the government-provided HAZMAT vehicle with the necessary equipment and materials to support the task.

3.1.1.12 Fire Incident Reporting. Upon notification, the contractor shall report fire responses or incidents at KSC/CCAFS using the National Fire Incident Reporting System (NFIRS).

3.1.1.13 Fire Hydrant Flow Testing and Marking. The contractor shall develop a plan and flow test and mark all fire hydrants on KSC/CCAFS.

3.1.1.14 Immediate Danger to Life or Health Rescue Program. The Contractor will provide support in accordance with Technical Exhibit 3.1.1-01. [\(Mod 428\)](#)

Deleted: shall establish and implement an Immediately Dangerous to Life or Health (IDLH) Rescue Program in accordance with Part 29 CFR 1910.134(g)(3), Respiratory Protection, and ensure that personnel performing rescue services are trained in accordance with Part 29 CFR 1910.120(q). The contractor shall provide an emergency rescue response team for the support of the heritage ELV programs and their associated payloads. ¶

3.1.1.15 On Site Standby Technical Rescue. On site standby technical rescue will be supported in accordance with Technical Exhibit 3.1.1-01 [\(Mod 428\)](#).

Deleted: Support heritage programs and their associated payloads with providing on site standby rescue for hazardous operations when required. Technical Exhibit 3.1.1.15-01 contains requirements

02/02/07 - 9/30/08						
CCAFS REFUSE COLLECTION						
BLDG NR	LOCATION	TYPE	SIZE	QTY	FREQ	REMARKS
6	US COAST GD STA	Dumpster	8 CY	1	2	
7	US COAST GD STA	Dumpster	8 CY	1	2	
8	US COAST GD STA	Dumpster	8 CY	1	2	
1042	FUEL STORAGE #1	Dumpster	6 CY	1	1	
1047	FUEL STORAGE #1	Dumpster	6 CY	1	1	
1050	FUEL STORAGE #1	Dumpster	6 CY	1	1	
1061	NAVY EXCHANGE	Dumpster	8 CY	1	2	
1062	POV PROCESSING BLDG	Dumpster	8 CY	1	2	
1063	NAVY OUTPORT	Dumpster	8 CY	1	2	
1068	PASS & ID BLDG	Dumpster	8 CY	1	1	
1069	PORT CREW SHOP	Dumpster	8 CY	1	1	
1102	ROCC ANTENNA FIELD	Dumpster	6 CY	1	1	
1115A	HANGAR Y AREA, NORTH	Dumpster	6 CY	1	1	
1115B	HANGAR Y AREA, SOUTH	Dumpster	6 CY	1	1	
1117	HANGAR Y AREA, OPS WHSE	Dumpster	6 CY	1	1	
1260	EOD RANGE	Dumpster	6 CY	1	1	
1305A	DELTA OPS	Dumpster	6 CY	1	1	
1361	STEARNS ROGERS BLDG	Dumpster	6 CY	1	1	
1381	FORMER CST GD-REMEDATION	Dumpster	6 CY	1	1	
1383A	WEATHER BLDG	Dumpster	8 CY	1	1	
1385	NASA BOC STORAGE BLDG	Dumpster	6 CY	1	1	
1428	NRC BLDG	Dumpster	8 CY	1	1	
1604	HANGAR H	Dumpster	6 CY	1	1	
1606	HANGAR G	Dumpster	8 CY	1	1	
1608	MAINTENANCE SHOP	Dumpster	8 CY	1	1	
1611	HANGAR F	Dumpster	6 CY	1	1	
1612	HANGAR E	Dumpster	6 CY	1	1	
1619	OPTICAL EQUIP STORAGE	Dumpster	6 CY	1	1	
1622	EOD BLDG	Dumpster	8 CY	1	1	
1623	AF SUPPLY WHSE	Dumpster	6 CY	1	1	
1628	HEAVY METAL PAINT SHOP	Dumpster	6 CY	1	1	
1635	RIGGING SHOP	Dumpster	6 CY	1	1	
1638	CCC PROGRAMMING BLDG	Dumpster	2 CY	1	1	
1645	RANGE CONTROL CENTER	Dumpster	8 CY	1	2	
1663	TV OPERATIONS	Dumpster	6 CY	1	1	
1704	E&L BLDG NE	Dumpster	6 CY	1	2	
1708B	R&D HANGAR SW	Dumpster	8 CY	2	2	
1711	HANGAR I	Dumpster	6 CY	1	1	
1722	CCC PROGRAMMING	Dumpster	6 CY	1	1	
1724	PHYSICAL STANDARDS LAB	Dumpster	6 CY	1	1	
5550	HANGAR LITTLE J	Dumpster	6 CY	1	2	
1726	HANGAR S	Dumpster	6 CY	1	2	
1726A	HANGAR S	Dumpster	6 CY	1	2	
1728	HANGAR N	Dumpster	8 CY	1	1	
1731	HANGAR M	Dumpster	6 CY	1	1	
1733	E&A BLDG	Dumpster	6 CY	2	1	
1739	HANGAR T	Dumpster	6 CY	1	1	
1744	HANGAR U	Dumpster	6 CY	2	1	
1744A	HANGAR U	Dumpster	6 CY	1	1	
1748	CAPE CAFETERIA	Dumpster	8 CY	1	5	
1777	LAUNCH SUPPORT FAC	Dumpster	6 CY	1	1	
3100	COMPLEX 46	Dumpster	6 CY	1	1	
5401	COMPLEX 11	Dumpster	8 CY	1	1	
5951	COAST GUARD-CMPLX 21 BLOCKHOUSE	Dumpster	6 CY	1	1	
18800	COMPLEX 20 BLKHOUSE	Dumpster	8 CY	1	1	
24450	COMPLEX 18	Dumpster	6 CY	1	1	
28417	COMPLEX 17 PAD B	Dumpster	8 CY	1	1	
29150	PUMP STATION #7	Dumpster	4 CY	1	1	
34705	TEST GROUP FACILITY	Dumpster	8 CY	2	2	
36004	COMPLEX 17	Dumpster	6 CY	2	1	
1723	TRAINING FAC	Dumpster	6 CY	1	1	
38315	AF/NASA WHSE #2	Dumpster	6 CY	1	1	
39761	GPS/PRESS SITE #2	Dumpster	6 CY	1	1	
40906	PUMP STATION #1	Dumpster	4 CY	1	1	

02/02/07 - 9/30/08						
CCAFS REFUSE COLLECTION						
BLDG NR	LOCATION	TYPE	SIZE	QTY	FREQ	REMARKS
41109	SPACE MUSEUM	Dumpster	6 CY	1	1	
41303	SPACE MUSEUM HUT	Dumpster	6 CY	1	1	
44401	PHOTO OPS SUPPORT	Dumpster	6 CY	1	1	
44410	PHOTO OPERATIONS	Dumpster	6 CY	1	1	
44600	I&E BUILDING	Dumpster	6 CY	1	1	
44603	ROADS & GROUNDS FAC	Dumpster	6 CY	1	1	
44625	GENERATOR SHOP	Dumpster	6 CY	1	1	
44645	CORROSION CONTROL FAC	Dumpster	8 CY	1	1	
44810	HANGAR AA	Dumpster	6 CY	2	1	
49536	HANGAR LITTLE U	Dumpster	6 CY	1	1	
49635	DISPENSARY	Dumpster	8 CY	1	1	
49639	CENTRAL COMPUTER CPX	Dumpster	6 CY	1	1	
49750	ALT CENT SECURITY CONT	Dumpster	6 CY	1	1	
49760	VEHICLE WASH FACILITY	Dumpster	2 CY	1	1	
49835	HEAVY EQUIPMENT SHOP	Dumpster	6 CY	1	3	
49904	SAB	Dumpster	6 CY	1	1	
49926	OPS SUPPORT FAC	Dumpster	6 CY	1	1	
50160	RADAR BLDG MCS	Dumpster	6 CY	1	1	
50801	ROCKET STORAGE BLDG	Dumpster	6 CY	1	1	
50803	ROCKET CHECKOUT BLDG	Dumpster	6 CY	1	1	
51900	DISASTER PREP BLDG CX 25	Dumpster	8 CY	1	1	
52001	CX 25 BRITISH SUPPORT FAC	Dumpster	6 CY	1	1	
54731	WW TREATMENT PLANT	Dumpster	4 CY	1	1	
54800	CHEM LAB	Dumpster	6 CY	1	1	
54805	TITAN AGE/CSR ANTENNA	Dumpster	6 CY	1	1	
54815	NAVY TRAINING BLDG	Dumpster	6 CY	1	1	Descope By 04/28/08-CCR 05-54
54915	MRL BLDG	Dumpster	6 CY	2	2	
55005	HANGAR M ANNEX	Dumpster	6 CY	1	1	
55150	HANGAR I ANNEX	Dumpster	8 CY	1	2	
55810	NPF/PSF AREA 59	Dumpster	8 CY	1	1	
55850	NPF/PSF AREA 59	Dumpster	6 CY	1	1	
55865	NPF/PSF AREA 59	Dumpster	8 CY	1	1	
55895	MARTIN MODULAR	Dumpster	6 CY	1	1	
56921	COMPLEX 30 SOUTH FAC	Dumpster	6 CY	1	1	
56940	CPX 30 DEF ORD FAC	Dumpster	6 CY	1	1	
57511	MACCA (AP)	Dumpster	6 CY	1	1	
57512	MACCA (AQ)	Dumpster	6 CY	1	1	
60530	AO BLDG	Dumpster	6 CY	2	2	
60650	E&O BLDG	Dumpster	6 CY	1	1	
60680	AE BLDG	Dumpster	6 CY	1	1	
60701	SECURITY CONTROL	Dumpster	6 CY	1	1	
60705	COMM BLDG	Dumpster	8 CY	1	1	
60717	PICNIC PAVILLION	Dumpster	4 CY	1	1	
60740	CAPE HEADQUARTERS	Dumpster	4 CY	1	1	
60748	CONST MATERIAL BLDG	Dumpster	8 CY	1	1	
62610	BLDG Z (LOCKHEED)	Dumpster	6 CY	1	1	
62615	NOTU TEST OPS	Dumpster	6 CY	1	1	
62630	LMSC SHIP/RECEIVING EAST	Dumpster	6 CY	1	1	
62630A	LMSC SHIP/RECEIVING WEST	Dumpster	6 CY	1	1	
62700	GUIDANCE TEST BLDG	Dumpster	6 CY	1	1	
62820	MACCA (AG)	Dumpster	6 CY	1	1	
62720	WASTE WATER TREATMENT FAC	Dumpster	6 CY	1	1	
62960	MACCA (AJ)	Dumpster	6 CY	1	1	
62980	MACCA (AK)	Dumpster	6 CY	1	1	
62990	MACCA (AL)	Dumpster	6 CY	1	1	
63000	MACCA (AH)	Dumpster	6 CY	1	1	
66232	CARPENTER SHOP	Dumpster	6 CY	1	1	
66242	WEST WASH BLDG	Dumpster	6 CY	3	1	
66249	NASA DESERVICING FAC	Dumpster	6 CY	1	2	
66250	HANGAR AF NW	Dumpster	8 CY	2	2	
66251	HIGH PRESSURE GAS FAC	Dumpster	6 CY	1	2	
66330	APOLLO WHSE	Dumpster	6 CY	1	1	
66336	NASA WASTE/SAND BLAST	Dumpster	8 CY	1	1	
66505	LITTLE L	Dumpster	6 CY	1	1	

02/02/07 - 9/30/08						
CCAFS REFUSE COLLECTION						
BLDG NR	LOCATION	TYPE	SIZE	QTY	FREQ	REMARKS
66620	DRMO	Dumpster	6 CY	1	1	
68220	NOTU BLDG	Dumpster	6 CY	1	1	
70000	ITL SMAB	Dumpster	8 CY	1	1	
70503	VIB	Dumpster	8 CY	1	1	
70510	ITL WAREHOUSE (NE)	Dumpster	8 CY	1	1	Descope By 12/27/07-CCR 05-54
70510A	ITL WAREHOUSE (E)	Dumpster	8 CY	1	1	Descope By 12/27/07-CCR 05-54
70535	ITL FIRE STATION	Dumpster	6 CY	1	2	
70540	AGE WAREHOUSE	Dumpster	8 CY	1	2	
70659	X-RAY BLDG	Dumpster	6 CY	1	1	
72810	LOADING DOCK FSA #2	Dumpster	6 CY	1	1	
72905	ADMIN BLDG FSA #2	Dumpster	8 CY	1	1	
73700	SPIN TEST SUPPORT FAC	Dumpster	6 CY	1	1	
77350	EMT FSA #2	Dumpster	6 CY	1	1	
79150	TRIDENT BASIN AREA	Dumpster	8 CY	2	1	
79150A	TRIDENT BASIN AREA	Dumpster	8 CY	1	1	
79150B	TRIDENT BASIN AREA	Dumpster	8 CY	1	1	
79150C	TRIDENT BASIN AREA	Dumpster	8 CY	1	1	
79150D	TRIDENT BASIN AREA	Dumpster	8 CY	1	1	
80505	MISSILE TEST RES BLDG, FSA	Dumpster	6 CY	1	1	
81585	COMMAND CONTROL BLDG	Dumpster	4 CY	1	1	
81701	NAVY VEH MAINT/ADMIN	Dumpster	6 CY	1	1	
81900	ROCC	Dumpster	6 CY	4	1	
83600	LANDFILL	Dumpster	6 CY	1	1	
85110	SUPPORT FAC FSA #4	Dumpster	6 CY	1	1	
85125	DELTA OPS FAC	Dumpster	8 CY	1	2	
85202	NAVY AGE STORAGE FAC	Dumpster	6 CY	1	1	
88900	NAVY GREENHOUSE	Dumpster	6 CY	1	2	
88900A	NAVY GREENHOUSE	Dumpster	6 CY	1	2	
90302	DASO HQ BUILDING	Dumpster	8 CY	1	1	
90540	POSEIDON WHARF EAST	Dumpster	8 CY	1	2	
90540A	POSEIDON WHARF EAST	Dumpster	8 CY	1	2	
90540B	POSEIDON WHARF WEST	Dumpster	8 CY	1	2	
90540C	POSEIDON WHARF WEST	Dumpster	8 CY	1	2	
90540D	POSEIDON WHARF CENTER	Dumpster	8 CY	1	2	
90540E	POSEIDON WHARF CENTER	Dumpster	8 CY	1	2	
DUMPSTERS TO BE EMPTIED MONTHLY						
7001	COMPLEX 12	Dumpster	8 CY	1	1	
8803	COMPLEX 13 PAD SAFETY	Dumpster	4 CY	1	1	
1648C	COMPLEX 14	Dumpster	6 CY	1	1	
10751	CSR ENGINEERING CX 15	Dumpster	4 CY	1	1	
13123	COMPLEX 16	Dumpster	6 CY	1	1	
15730	COMPLEX 19	Dumpster	4 CY	1	1	
1348	HANGAR C	Dumpster	6 CY	1	1	
27200	LAUNCH OPS CONT CTR	Dumpster	8 CY	1	1	
BLDG NR	LOCATION	TYPE	SIZE	QTY	FREQ	REMARKS
MSC	ON-BOARD SHIPS	Dumpster	8 CY	3	1	
METAL COLLECTION DUMPSTER TO BE EMPTIED QUARTERLY						
BLDG NR	METAL COLLECTION	TYPE	SIZE	QTY	FREQ	REMARKS
1063	PORT AREA WHSE	Metal Dumpster	2 CY	1	1	
1115	HANGAR Y	Metal Dumpster	2 CY	2	1	
1708	R&D HANGAR	Metal Dumpster	4 CY	1	1	
1708	R&D HANGAR	Metal Dumpster	6 CY	1	1	
1744	HANGAR U	Metal Dumpster	2 CY	2	1	
1744	LITTLE U	Metal Dumpster	6 CY	1	1	
85200	NAVY STORAGE BUILDING	Metal Dumpster	2 CY	2	1	
BLDG NR	REGULATED FOOD WASTE	TYPE	SIZE	QTY	FREQ	REMARKS
1363	NAVY PORT	Container	2 CY	1		
50211	SKID STRIP AIRFIELD	Container	2 CY	1		
J6-2362	SHUTTLE LANDING FACILITY	Container	2 CY	1		

02/02/07 - 9/30/08		CCAFS REFUSE COLLECTION		
BLDG NR	LOCATION	TYPE	SIZE	QTY
EMPTIED ONCE PER WEEK				
BLDG NR	GENERAL PURPOSE CANS	TYPE	SIZE	QTY
GUARDSHACKS MAIN GATE				
		Cans	30 gal	3
VARIOUS FREQUENCIES				
BLDG NR	BULK COLLECTION ROLLOFFS	TYPE	SIZE	QTY
1062	PORT AREA WHSE	ROLLOFF	20 CY	1
1115	HANGER Y	ROLLOFF	30 CY	1
80505	FUEL STORAGE AREA 2	ROLLOFF	20 CY	1
44600	I AND E CARP SHOP - WOOD COLLECTION	ROLLOFF	30 CY	1
EMPTIED WEEKLY				
BLDG NR	BULK COLLECTION ROLLOFFS	TYPE	SIZE	QTY
66620	DRMO	ROLLOFF	30 CY	1
REMARKS				

Hazardous Operations Requiring CCAFS Fire Department Standby:

Location	Procedure	Requirement	Fire Department How To Support/ Resources
Complex 20	LO2 Tanker Offload	Operations Safety Plan, Complex 20	In-Station
Army Wharf	Otto Fuel II Offload	Operations Safety Plan, Army Outport	In-Station
Trident/Poseidon Wharf	Trident Missile Processing Ops	Operations Safety Plan, Trident Wharf	In-Station
Trident/Poseidon Wharf	USCG & SDDC (AOP) Ordnance Ops	Operations Safety Plan, Trident Wharf	In-Station
Skid Strip	Pegasus Launch Day	Operations Safety Plan, Skid Strip	In-Station
SPIF	System Leak Check, Fuel & Ox	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
SPIF	Connection/Removal of Gauges, Fuel & Ox	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
SPIF	Pressurization & Vent Functional Checks, Fuel & Ox	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
SPIF	Propellant Operations Fuel & Ox	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
SPIF	System Leak Check Fuel & Ox	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
SPIF	S/C Fueling Ops	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
SPIF	Hoisting Fueled S/C	Operations Safety Plan, SMAB/SPIF	In-Station
FSA #1	Fuel Ops (Areas 77800 & 77611 if Deluge Non-Operational)	Operations Safety Plan, Fuels #1	In-Station / If deluge is Non-Operational fire crew will be on-site
Delta IV	LH2 Tank Loading and Sampling	Operations Safety Plan, Trident Wharf	In-Station
Delta IV - CX 37	ACS Propellant Servicing w/N2H4	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH Team plus 2 medics
Delta IV - CX 37	Launch Day Pad Operations	Operations Safety Plan, Trident Wharf	In-Station
Delta IV - CX 37	Wet Dress Rehearsal	Operations Safety Plan, CX37/HIF	In-Station
Delta IV	S/C Hoist & Mate	Operations Safety Plan, CX37/HIF	In-Station
Delta IV	LH2 System Qualification	Operations Safety Plan,	In-Station

		CX37/HIF	
Delta IV – CX 37	S/C De-mate	Operations Safety Plan, CX37/HIF	In-Station
Delta IV	Emergency Payload Propellant Offload	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
Delta II – CX 17	Launch Day Arming & Tower Roll	Operations Safety Plan, CX17	On-site
Delta II – CX 17	F-91 Task 4 Filling LOX Storage Tank	Operations Safety Plan, CX17	On-Site
Delta II – CX 17	F-91 Task 1 Filling Fuel (RP-1) Storage Tank	Operations Safety Plan, CX17	On-Site
Delta II – CX 17	F-13 LOX Leak Checks	Operations Safety Plan, CX17	On-Site
Delta II – CX 17	F-10 RP-1 Fuel Quals	Operations Safety Plan, CX17	On-Site
Delta II – CX 17	S/C Erection	Operations Safety Plan, CX17	On-Site
Complex 17	2 nd Stage Propellant Servicing & ACS Loading	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH Team plus 2 medics
Delta II – CX 17	Hypergolic Igniter Installation	Operations Safety Plan, CX17	On-Site
Area 59	PSF 3 rd Stage NCS Load	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
Area 59	DPF S/C Fuel Sample	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
Area 59	DPF S/C Fuel Load	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH
Atlas V	LH2 Storage Tank Fill/Drain	Operations Safety Plan, Atlas V	In-Station
Atlas V	LH2 Storage Tank Samples	Operations Safety Plan, Atlas V	In-Station
Atlas V	LH2 Cold Flow	Operations Safety Plan, Atlas V	In-Station
Atlas V	LH2 Burn Stack Maintenance	Operations Safety Plan, Atlas V	In-Station
Atlas V	Hydrazine Flight Loading, Off-loading, Clean-Up, and Sampling	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH Team plus 2 medics
Atlas V	Hydrazine Contingency Off-loading Operations	29 CFR 1910.120 and .134, HAZWOPER / Respiratory Protection	5 person IDLH Team plus 2 medics
Atlas V	Wet Dress Rehearsal (WDR) RP-1/Cryogenic Tanking/Detanking Operations	Operations Safety Plan, Atlas V	In-Station
Atlas V	Spacecraft Erection/De-erection Operations	Operations Safety Plan, Atlas V	In-Station

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Attachment J5, Technical Exhibit 3.1.1-01
As of August 2006

Atlas V	Launch Countdown Operations (On Pad)	Operations Safety Plan, Atlas V	In-Station
Fallback	LDCG Support	Consolidated Comprehensive Emergency Management Plan (CCEMP)	On-Site

J5, Technical Exhibit # 3.1.2-03
Baseline Realignment Security Posture for FY04 – 08

The following FY04-08 Security Posture Baseline Realignment Table reflects Government post-9/11 requirements. The table includes the pre-9/11 and CCRs 02-22-NOTU Security Boat Operation, 02-31-Increased Shuttle Support, and 02-32-Increased Force Protection Safeguard requirements.

It continues the 2003 Cape Port Gate concept-of-operation. Port gate is secured; access to Port is through the Cape South Gate into the NOTU area. Port gate may be opened as customer call-up short-term variable requirement.

Reassignment of security personnel between posts is allowed in order to provide flexibility for overall security police force operations (e.g. surge capability and operational efficiencies). **Mod 379**

FY04-08 Security Posture Baseline - Table

KSC Security

Description	Requirement
Law Enforcement - North	1/24/7
LC 39 Rover	1/24/7
F Gate/VAB	1/24/7
VAB Protection	1/24/7
OPF Bay 1 Gate	1/24/7
OPF Bay 3 Gate	1/24/7
OPF Protection	1/24/7
LCC Gate E	1/24/7
Facility Rover	1/24/7
Pad A Gate	1/24/7
Pad B Gate	1/24/7
Pad A Rover	1/24/7
Law Enforcement - South	1/24/7
SSPF	1/24/7
Escort Unit	1/16/5
Relief Rover	2/24/7
Gate 3	2/24/7
Gate 2	2/24/4
	2/18/1
Gate 4	2/24/7
Law Enforcement - KSCVC	1/8/7
River Boat Patrol	1/24/7
Air Boat Patrol	1/24/7
CCAFS E-25 FSA #1	1/16/5
Emergency Response Team	5/24/7
Emergency Response Team Commander	1/8/5
Emergency Response Team Supervisors	3/8/5
K-9 Handlers	1/24/7
North Area Supervisor	1/24/7
South Area Supervisor	1/24/7
Resource Protection/(CLS)	2/8/5

VAB C-Gate 1/10/5

Air Force (CCAFS Security)

Description	Requirement
Installation Patrols (2)	2/24/7
Vehicle Inspection Response Force	1/24/7
South Cape Response Force #1	2/24/7
Central Cape Response Force	2/24/7
XY Internal Response Force	1/24/7
South Gate	1/24/7
South Gate Asst	1/24/7
South Gate Vehicle Inspector	1/12/7
Area 59 (NPF) Internal Response Force	1/24/7
Cape River Patrol (Airboat)	1/16/7
Area Supervisor	1/24/7

Deleted: Air Force

Deleted: ITL SRT (2)

Deleted: 2/24/7

Deleted: SMAB Internal Response Force

Deleted: 1/24/7

ROCC - JON 57426000 Air Force

Description	Requirement
ROCC Internal Response Force	2/24/7
EELV - Air Force	
Delta IV, (SLC 37)	2/24/7
Atlas V, VIF (SLC 41)	2/24/7
Titan - JON 82000000 (Deleted Mod 308)	

Titan - JON 81000000 (Deleted Mod 308)

Delta - JON 71000000

Description	Requirement
SLC 17 Internal Response Force	2/24/7

NOTU - JON 07200000

Description	Requirement
Marine Patrol	2/24/7
Supervisor	1/8/5

Deleted: NOTU Rover

Deleted: 1/8/7

JOINT Security POOL

Description	Requirement
Security Management	6/8/5
Administrative Personnel	12/8/5
Shift Ops & Scheduling Supervisors	17/8/5
Quality & Safety	1/8/5
Plans Supv.	2/8/5
Resource Protection	4/8/5
Investigations	3/8/5
Training and CATM	12/8/5
K-9 Supv & Handlers	3/8/5
Boat Ops Asst & CATM Asst.	2/8/5
Armorsers & Supply Asst	13/8/5
Badging & Supv	22/8/5

**J-BOSC TECHNICAL EXHIBIT 5.5-826
CCAFS GROUNDS AREAS and REQUIREMENTS**

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS			
1	CX 41 N/E	X	X		30' CLEAR ZONE @ FENCELINE			
2	CX 41 N/W	X	X		30' CLEAR ZONE @ FENCELINE			
3	CX 41 S/E	X	X		30' CLEAR ZONE @ FENCELINE			
4	CX41 S/W	X	X		30' CLEAR ZONE @ FENCELINE			
5	PHILLIPS PARKWAY TO CX41							
6	N. PERIMETER RD TO CX41		X					
7	RAILROAD TRACKS			X				
8	PHILLIPS PARKWAY TO CX41		X					
9	PHILLIPS PARKWAY TO CX41		X					
10	JFKSC/CCAFS BOUNDRY		X		CCAFS SIDE OF FENCE			
11	JFKSC/CCAFS BOUNDRY		X		CCAFS SIDE OF FENCE			
12	CX40 N/E	X	X		30' CLEAR ZONE @ FENCELINE			
13	CX40 N/W	X	X		30' CLEAR ZONE @ FENCELINE			
14	N. PERIMETER RD TO CX41		X					
15	PHILLIPS PARKWAY		X					
16	CX40 S/E	X	X		30' CLEAR ZONE @ FENCELINE			
17	CX40 S/W	X	X		30' CLEAR ZONE @ FENCELINE			
18	N. X-PORTER RD TO CX40		X					
19	N. X-PORTER RD TO CX40		X					
20	N. PERIMETER RD TO CX41		X					
21	PHILLIPS PARKWAY		X					
22	POWER LINE ACCESS							
23	N. PERIMETER RD @ FAC69800		X					
24	N. PERIMETER RD @ FAC 69800		X					
25	PHILLIPS PARKWAY TO CX47		X					
26	POWER LINE ACCESS							

J-BOSC TECHNICAL EXHIBIT 5.5-826
CCAFS GROUNDS AREAS and REQUIREMENTS

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS			
27	PHILLIPS PARKWAY TO CX47		X	X				
28	N. TRANSMITTER RD @70004		X		30' CLEAR ZONE @ FENCELINE			
29	N. TRANSMITTER RD @ 70004		X		30' CLEAR ZONE @ FENCELINE			
30	PHILLIPS PARKWAY TO CX 47		X	X				
31	CX37		X	X				
32	PHILLIPS PARKWAY TO CX47		X	X				
33	PIPELINE ROADWAY			X				
34	PIPELINE ROADWAY			X				
35	PUMP STATION #6		X		30' CLEAR ZONE @ FENCELINE			
36	TITAN III AREA		X		30' CLEAR ZONE @ FENCELINE			
37	TITAN III AREA		X		30' CLEAR ZONE @ FENCELINE			
38	TITAN III AREA		X		30' CLEAR ZONE @ FENCELINE			
39	TITAN III AREA		X		30' CLEAR ZONE @ FENCELINE			
40	CX34 N/W		X	X				
41	DITCHES OF PHILLIPS PARKWAY			X				
42	PHILLIPS PARKWAY @ 43400		X	X				
43	PHILLIPS PARKWAY @ 43302		X	X				
44	CX34 N/E		X	X				
45	CX 34 S		X	X				
46	PHILLIPS PARKWAY TO 43400		X	X				
47	TITAN ROAD		X					
48	TITAN ROAD		X					
49	CX20 N/E		X	X	30' CLEAR ZONE @ FENCELINE			
50	CX20 N/W		X	X	30' CLEAR ZONE @ FENCELINE			
51	ROAD TO CX34		X	X				
52	PHILLIPS PARKWAY AT ICBM RD		X	X				

**J-BOSC TECHNICAL EXHIBIT 5.5-826
CCAFS GROUNDS AREAS and REQUIREMENTS**

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI-IMPVD "B" GRND	SPECIAL REQUIREMENTS
53	CX20 S/E		X	X	30' CLEAR ZONE @ FENCELINE
54	CX20 S/W		X		30' CLEAR ZONE @ FENCELINE
55	ICBM RD TO CX20	X	X		PLANT BEDS, SHRUBS, FIRE BREAK
56	ICBM AND PHILLIPS PKWY		X	X	FIRE BREAK
57	ROAD TO FAC 48940		X	X	
58	TITAN ROAD AT FAC 59926		X	X	30' CLEAR ZONE @ FENCELINE
59	CX 19 N/E	X	X	X	PLANT BEDS, SHRUBS
60	CX19 N/W		X	X	
61	CX19 S/E		X	X	
62	CX19 S/W		X		PLANT BEDS, SHRUBS
63	PHILLIPS PKWY TO TITAN RD		X		HEDGES
64	TITAN RD AT PHILIPS PKWY	X	X		HEDGES
65	TITAN RD TO PHILLIPS PKWY		X		
66	CX16 N/E		X		
67	CX19 N/W		X	X	
68	CX 16 S/E		X	X	FIRE/SECURITY BREAK
69	CX 16 S/W		X		
70	ICBM AT CX 16		X	X	
71	HEAVY LAUNCH ROAD		X		FIRE/SECURITY BREAL
72	HEAVY LAUNCH ROAD		X	X	
73	CAPE AND HANGAR ROAD		X		
74	NW OF HANGAR RD			X	
75	NW OF HANGAR RD			X	
76	CX 15 N/E			X	
77	CX 15 NW			X	
78	CX 15 S/E			X	

J-BOSC TECHNICAL EXHIBIT 5.5-826 CCAFS GROUNDS AREAS and REQUIREMENTS

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS			
79	CX 15 S/W		X	X				
80	CX 14 N/E			X				
81	CX14 N/W		X	X				
82	CX14 S/E			X				
83	CX14 S/W		X	X				
84	ICBM RD AT FAC 16304	X	X	X	TREES, SHRUBS, PLANT BEDS			
85	CONTROL ROAD AT FAC 34525		X	X				
86	HEAVY LAUNCHED		X	X				
87	INDUSTRIAL AREA N/W	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
88	INDUSTRIAL AREA N	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
89	INDUSTRIAL AREA N/E	X			TREES			
90	INDUSTRIAL AREA N/E	X	X		TREES, SHRUBS, PLANT BEDS			
91	INDUSTRIAL AREA N	X			TREES, SHRUBS, HEDGES			
92	INDUSTRIAL AREA W	X		X	TREES, SHRUBS, HEDGES, PLANT BEDS			
93	INDUSTRIAL AREA W	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
94	INDUSTRIAL AREA W	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
95	INDUSTRIAL AREA CENTRAL	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
96	INDUSTRIAL AREA W	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
97	INDUSTRIAL AREA E	X						
98	INDUSTRIAL AREA CENTRAL	X						
99	INDUSTRIAL AREA W	X			TREES, HEDGES			
100	INDUSTRIAL AREA W	X						
101	CX13 N/E		X	X				
102	CX13 N/W		X	X				
103	CX13 S/E		X					
104	CX13 X/W		X					

**J-BOSC TECHNICAL EXHIBIT 5.5-826
CCAFS GROUNDS AREAS and REQUIREMENTS**

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS
105	ICBM ROAD AT CX13		X	X	
106	FACILITY 34708	X	X		JOGGING TRAIL, FENCELINE
107	MERCURY ROAD		X	X	JOGGING TRAIL
108	MERCURY ROAD	X		X	TREES, SHRUBS, HEDGES, PLANT BEDS, JOGGING TRAIL
109	INDUSTRIAL AREA E	X			JOGGING TRAIL
110	INDUSTRIAL AREA S/E	X			JOGGING TRAIL
111	INDUSTRIAL AREA S	X			TREES
112	INDUSTRIAL AREA S	X			TREES, SHRUBS, HEDGES, PLANT BEDS
113	INDUSTRIAL AREA SW	X			TREES, SHRUBS, HEDGES, PLANT BEDS
114	INDUSTRIAL AREA S	X			MOW BALL FIELD .5" TO 1.5", HEDGES
115	INDUSTRIAL AREA SW	X		X	TREES, SHRUBS, PLANT BEDS
116	CX12		X	X	
117	ICBM ROAD AT CX12		X	X	FIRE/SECURITY BREAK
118	CENTRAL CONTROL ROAD		X	X	TRAIL, FIRE/SECURITY BREAK
119	FACILITY 50221	X	X	X	HEDGES, PLANT BED, FIRE BREAK, JOGGING TRAIL, SKID STRIP
120	SKIDSTRIP ROAD	X	X	X	TREES, FIRE/SECURITY BREAK
121	WEST APPROACH ZONE			X	
122	WEST APPROACH ZONE			X	
123	PHILLIPS PKWY TO INDUSTRIAL		X		GRASS WILL NOT EXCEED 8"
124	HANGAR RD TO INDUSTRIAL AREA		X		GRASS WILL NOT EXCEED 8"
125	DRMO AREA		X	X	TREES, FIRE/SECURITY BREAK
126	WEST APPROACH ZONE		X	X	450 x 1000 FT OVERRUN MAX 8"
127	WEST APPROACH ZONE				
128	WEST APPROACH ZONE		X	X	FIRE/SECURITY BREAK
129	WEST APPROACH ZONE			X	FIRE/SECURITY BREAK
130	WEST APPROACH ZONE				

J-BOSC TECHNICAL EXHIBIT 5.5-826 CCAFS GROUNDS AREAS and REQUIREMENTS

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS			
131	WEST APPROACH ZONE		X		FIRE/SECURITY BREAK			
132	PHILLIPS PKWY @ HANGAR RD		X		GRASS WILL NOT EXCEED 8"			
133	BURIAL PLOT OFF PHILLIPS PKWY							
134	CX11 EAST			X				
135	CX11 CENTER			X				
136	CX11 WEST		X	X				
137	FACILITY 27220	X	X	X	30' CLEAR ZONE @ FENCELINE			
138	RUNWAY N/W		X	X	SEMI-IMP "A"; MAXIMUM HEIGHT 8"			
139	CX36A EAST	X		X	30' CLEAR ZONE @ FENCELINE			
140	CX36A N/W	X	X	X	TREES			
141	CENTRAL CONTROL ROAD		X	X				
142	FACILITY 14300		X	X	FIRE/SECURITY BREAK			
143	CENTROL CONTROL ROAD		X	X	FIRE/SECURITY BREAK			
144	FACILITY 20299		X	X				
145	RUNWAY NORTH	X	X		SEMI-IMP "A"; MAXIMUM HEIGHT 8"			
146	RUNWAY SOUTH	X	X		SEMI-IMP "A"; MAXIMUM HEIGHT 8"			
147	RUNWAY S/W	X	X		SEMI-IMP "A"; MAXIMUM HEIGHT 8"			
148	FACILITY 55810		X		30' CLEAR ZONE @ FENCELINE			
149	FACILITY 55840		X		30' CLEAR ZONE @ FENCELINE			
150	SOLID FUEL STG AREA NORTH		X		30' CLEAR ZONE @ FENCELINE			
151	SOLID FUEL STG AREA NORTH		X		30' CLEAR ZONE @ FENCELINE			
152	FACILITY 2826 N/E		X		400' TOWER RADIUS 6" OR LESS			
153	FACILITY 2826 N/W		X		400' TOWER RADIUS 6" OR LESS			
154	FACILITY 4100		X					
155	FACILITY 2826 N/E	X			400' TOWER RADIUS 6" OR LESS			
156	FACILITY 2826 N/E		X	X	400' TOWER RADIUS 6" OR LESS			

J-BOSC TECHNICAL EXHIBIT 5.5-826 CCAFS GROUNDS AREAS and REQUIREMENTS

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS
157	CX36B	X		X	30' CLEAR ZONE @ FENCELINE
158	CENT CTL RD AT LIGHTHOUSE		X	X	FIRE/SECURITY BREAK
159	FACILITY 1348	X	X		30' CLEAR ZONE @ FENCELINE
160	CONTROL TOWER ROAD		X		FIRE/SECURITY BREAK
161	RUNWAY N/E		X	X	SEMI-IMP "A"; MAXIMUM HEIGHT 8"
162	RUNWAY S/E		X	X	SEMI-IMP "A"; MAXIMUM HEIGHT 8"
163	SOUTH OF RUNWAY			X	FIRE/SECURITY BREAK
164	RUNWAY SOUTH		X	X	SEMI-IMP "A"; MAXIMUM HEIGHT 8"
165	FACILITY 40431		X	X	30' CLEAR ZONE @ FENCELINE
166	FLIGHT CONTROL ROAD		X	X	FIRE/SECURITY BREAK
167	FACILITY 55860		X	X	30' CLEAR ZONE @ FENCELINE
168	FLIGHT CONTROL ROAD		X		
169	PHILLIPS PKWY/FLIGHT CTL RD		X		GRASS WILL NOT EXCEED 8"
170	FACILITY 72810		X		30' CLEAR ZONE @ FENCELINE
171	FACILITY 77200		X		30' CLEAR ZONE @ FENCELINE
172	FACILITY 77350		X		30' CLEAR ZONE @ FENCELINE
173	FACILITY 102		X	X	30' CLEAR ZONE @ FENCELINE
174	CX46		X		30' CLEAR ZONE @ FENCELINE
175	FACILITY 6012	X	X	X	30' CLEAR ZONE @ FENCELINE
176	EAST APPROACH ZONE E		X		
177	EAST APPROACH ZONE E		X		
178	EAST APPROACH ZONE E		X		
179	EAST APPROACH ZONE E		X	X	
180	EAST APPROACH ZONE W		X		
181	EAST APPROACH ZONE W		X	X	450 x1000 FT OVERRUN MAX 8"
182	EAST APPROACH ZONE W		X	X	450 x1000 FT OVERRUN MAX 8"

J-BOSC TECHNICAL EXHIBIT 5.5-826 CCAFS GROUNDS AREAS and REQUIREMENTS

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS			
183	EAST APPROACH ZONE W			X				
184	FLIGHT CONTROL RD EAST		X	X				
185	FLIGHT CONTROL RD		X					
186	FACILITY 1321		X					
187	FACILITY 50803		X	X	FIRE/SECURITY BREAK			
188	FACILITY 56205	X	X		TREES, FENCELINE			
189	MISSION CONTROL RD		X		30' CLEAR ZONE @ FENCELINE			
190	PHILLIPS PKY AT 1033		X		GRASS WILL NOT EXCEED 8"			
191	LIQUID PROP DISPOSAL		X		30' CLEAR ZONE @ FENCELINE			
192	LIQUID FUEL STORAGE		X		30' CLEAR ZONE @ FENCELINE			
193	CAMERA ROAD			X				
194	CAMERA ROAD			X				
195	JLIGHTHOUSE ROAD		X					
196	CX31 EAST		X					
197	CX31 N/W		X					
198	CX31 S/W		X					
199	CX18		X	X				
200	CX17 N/E	X			30' CLEAR ZONE @ FENCELINE			
201	CX17 WEST	X		X	SHRUBS, HEDGES, PLANT BEDS, FENCELINE			
202	IBM/LIGHTHOUSE ROAD		X		FIRE/SECURITY BREAK			
203	AREA WEWST OF CX17			X	FIRE/SECURITY BREAK			
204	AREA SOUTH OF FAC 50803			X	FIRE/SECURITY BREAK			
205	SOLID FUEL STORAGE		X	X	FIRE/SECURITY BREAK			
206	FSA #5 ROAD		X	X	30' CLEAR ZONE @ FENCELINE			
207	PHILLIPS PKY		X		GRASS WILL NOT EXCEED 8"			
208	LIQUID FUEL STORAGE		X		30' CLEAR ZONE @ FENCELINE			

J-BOSC TECHNICAL EXHIBIT 5.5-826 CCAFS GROUNDS AREAS and REQUIREMENTS

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS			
209	LIQUID FUEL STORAGE		X	X				
210	FACILITY 15306	X	X					
211	FACILITY 18003		X	X				
212	CX17 S/E	X			30' CLEAR ZONE @ FENCELINE			
213	USAF SPACE MUSEUM	X			TREES, SHRUBS, HEDGES, PLANT BEDS, FENCELINE			
214	LIFTHOUSE RD		X					
215	DELTA OPS SUPPORT		X		30' CLEAR ZONE @ FENCELINE			
216	LIGHTHOUSE RD		X					
217	PHILLIPS PKY/OIGHTHOUSE RD		X		GRASS WILL NOT EXCEED 8"			
218	BURIAL PLOT		X					
219	PIER RD EAST OF CX17		X					
220	SOLID FUEL STORAGE #3		X		30' CLEAR ZONE @ FENCELINE			
221	NASA SPACE MUSEUM	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
222	NASA SPACE MUSEUM	X			TREES, SHRUBS, HEDGES, PLANT BEDS			
223	AREA SO. OF NASA MUSEUM		X					
224	CX30 NORTH		X	X	30' CLEAR ZONE @ FENCELINE			
225	CX30 SOUTH		X	X	30' CLEAR ZONE @ FENCELINE			
226	FACILITY 67903		X		30' CLEAR ZONE @ FENCELINE			
227	FACILITY 73700		X		30' CLEAR ZONE @ FENCELINE			
228	PHILLIPS PKWY/LIGHTHOUSE RD		X		GRASS WILL NOT EXCEED 8"			
229	COMMAND CONTROL		X	X	30' CLEAR ZONE @ FENCELINE			
230	PIER RD TO CX25		X	X	30' CLEAR ZONE @ FENCELINE			
231	PIER RD AT CX25		X	X	FIRE/SECURITY BREAK			
232	PIER RD SOUTH OF CX25			X	FIRE/SECURITY BREAK			
233	PIER RD SOUTH OF CX25	X	X	X	FIRE/SECURITY BREAK			
234	PIER RD SOUTH OF CX25	X	X	X	FIRE/SECURITY BREAK			

J-BOSC TECHNICAL EXHIBIT 5.5-826 CCAFS GROUNDS AREAS and REQUIREMENTS

PLOT NUMBER	AREA DESCRIPTION	PR-01 IMPVD GRNDS	PR-02 SEMI-IMPVD "A" GRND	PR-03 SEMI IMPVD "B" GRND	SPECIAL REQUIREMENTS			
235	PHILLIPS PKWY AT PIER RD		X		GRASS WILL NOT EXCEED 8"			
236	PHILLIPS PKWY AT PIER RD		X		GRASS WILL NOT EXCEED 8"			
237	CX25			X				
238	CX25		X	X				
239	FACILITY 62637	X	X	X	TREES, SHRUBS, HEDGES, PLANT BEDS, FENCELINE			
240	TRANSMITTER FIELD N/E			X				
241	TRANSMITTER FIELD N/W		X	X				
242	FACILITY 81701	X		X	TREES, SHRUBS			
243	CX29		X	X				
244	FACILITY 62875		X	X	30' CLEAR ZONE @ FENCELINE			
245	TRANSMITTER FIELD N/E		X	X				
246	TRANSMITTER FIELD N/W		X	X				
247	FACILITY 81900	X			TREES, FENCELINE			
248	FACILITY 85108	X	X	X				
249	FACILITY 62824		X		30' CLEAR ZONE @ FENCELINE			
250	FACILITY 57511		X		30' CLEAR ZONE @ FENCELINE			
251	FACILITY 63000		X	X	30' CLEAR ZONE @ FENCELINE			
252	TRANSMITTER FIELD N/E			X				
253	TRANSMITTER FIELD WEST			X				
254	PARKING AREA		X					
255	TRANSMITTER FIELD S/E			X				
256	TRANSMITTER FIELD S/W			X				
257	PHILLIPS PKY NEAR MAIN GATE		X		GRASS WILL NOT EXCEED 8"			
258	FACILITY 85200		X	X				
259	TRRIDENT AREA		X	X	30' CLEAR ZONE @ FENCELINE			
260	HARBOUR AREA		X					

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
1.0	Project Management			
1.1	Management and Control	<p>* Community Events such as: Community Special Events include items such as:</p> <ul style="list-style-type: none"> • Facility Grand openings or ground breaking ceremonies. • Support for Barbeques, Soul Food Festival, NASA gatherings, Hello Florida, VPP Luncheons, etc. • Take Children to Work Day • Partnering Meetings, Awards Ceremony • Intercenter Run • Holiday Lighting • Environmental and Energy Awareness • Other Special Events such as the 40th Anniversary of Flight, Women’s Equality Day, FIRST Robotics, Asian Pacific Festival • PAFB Air Show, Stuart Air Show <p>* The list does not include the NASA Annual Picnic, Super Safety Day and the Port Exposition due to the complexity and variability of that support.</p> <p>* 206 Miles of Utility Locates per year</p>	MOD 205	
1.1	Management and Control	<p>24 18 Launch Forecast. Average normal launch activities include: 4 Atlas II, 1 Atlas III, 2 Atlas V (EELV), 6 Delta II, 3 Delta IV (EELV), 1 Pegasus, 4 STS, 2 Navy, 1 Titan IV</p>	MOD 428	
1.1	Management and Control			
1.1	Management and Control			
1.1	Management and Control			
1.2	Safety and Mission Assurance			

TECHNICAL EXHIBIT LISTING

WBS	Document Number	Rev. Date	Document Name	Mod Number
1.1.1.3	J-BOSC Tech Exhibit 5.1-501	10/97	Customer Support Function	205
2.1.1.1	J-BOSC Tech Exhibit 2.1.1.1-001	12/00	NASA Real Property	205
2.1.1.1	J-BOSC Tech Exhibit 2.1.1.1-002	12/00	AF Real Property	205
2.1.2.3.1	J-BOSC Tech Exhibit 2.1.2-001	12/03	Vessel/Systems	205
2.1.2.3.4	J-BOSC Tech Exhibit 2.1.2-002	12/03	Renewal Packages for DOT Exceptions	205
2.1.3.2	J-BOSC Tech Exhibit 2.1.3-001	04/03	KSC Cof F Project Baseline, WBS 2.1.3	205
2.1.4.3	J-BOSC Tech Exhibit 2.1.4-01	08/02	Energy Management Office Periodic Report Requirements	205
2.2.1.1	J-BOSC Tech Exhibit 2.2-017	05/05	On Line Operation Maintenance Engineering User Matrix (OMEU)	286
2.2.1.3	J-BOSC Tech Exhibit 2.2.1.3-001	05/05	Type III Work Orders	281
2.2.1.7	J-BOSC Tech Exhibit 2.2.1.7-01	12/03	KSC Ditch Cleaning	205
2.2.1.8	J-BOSC Tech Exhibit 2.2.1.8	12/03	Pad A&B Slide Wire Area Support Standards	205
2.2.1.19	J-BOSC Tech Exhibit 5.5-801	02/97	Clean Room Services	205
2.2.1.19	J-BOSC Tech Exhibit 5.5-802	09/96	Clean Room Description - NASA	205
2.2.2	J-BOSC Tech Exhibit 2.2.2.3A	12/04	Florida Annexes Refuse Collection Sites and Frequencies	269
2.2.2	J-BOSC Tech Exhibit 2.2.2.3B	04/07	CCAFS Refuse Collection Sites and Frequencies	428
2.2.2	J-BOSC Tech Exhibit 2.2.2.3C	12/04	KSC Refuse Collection Sites and Frequencies	269
2.2.2.1	J-BOSC Tech Exhibit 5.5-826	04/07	CCAFS Grounds Areas Map and Requirements	428
2.2.2.1	J-BOSC Tech Exhibit 7.0-016	06/05	KSC Grounds Maintenance	290
2.2.2.1	J-BOSC Tech Exhibit 5.5-827	12/03	CCAFS Specific Grounds Maintenance Requirements	293
2.2.2.1	J-BOSC Tech Exhibit 5.5-827	12/03	CCAFS Specific Grounds Maintenance Requirements	205
2.2.2.1	J-BOSC Tech Exhibit 2.2.2.1-01	12/03	Road Maintenance Areas of Responsibility for KSC and CCAFS	205
2.2.2.2	J-BOSC Tech Exhibit 2.2.2.2-01	12/03	Air Force Pest Management Plan	205
2.2.4	J-BOSC Tech Exhibit 2.2.4	08/05	Custodial Services	303
2.3	J-BOSC Tech Exhibit 2.3-01	06/04	Completed-One-Time Special Projects for Customers	232
2.3	J-BOSC Tech Exhibit 2.3-02	04/05	Security Support for New Horizon Mission	280
2.3	J-BOSC Tech Exhibit 2.3-03	01/05	Health Physics Services Support for New Horizon Mission	280
2.3	J-BOSC Tech Exhibit 7.0-127	05/02	CCAFS Water Backflow Prevention Devices	205
3.1.1	J-BOSC Tech Exhibit 3.1.1-01	08/06	Hazardous Operations Requiring CCAFS Fire Department Standbys	428
3.1.2	J-BOSC Tech Exhibit 3.1.2-01	7/03	KSC Realignment of Security Posture for FY04-08	239

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TECHNICAL EXHIBIT LISTING

WBS	Document Number	Rev. Date	Document Name	Mod Number
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	04/07	Baseline Realignment Security Posture Table FY04-08	428
3.1.2.9	J-BOSC Tech Exhibit 7.0-007	11/03	NASA Computer Systems, Application and Database (TRAC Application)	205
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	11/03	NASA Computer Systems, Application and Database (KSC Records Management System (IM03))	205
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 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	11/03	NASA Computer Systems, Application and Database	205
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

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AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 000429	3. EFFECTIVE DATE 05/18/2007	4. REQUISITION/PURCHASE REQ. NO. See Schedule	5. PROJECT NO. (If applicable) J-BOSC
6. ISSUED BY NASA/John F. Kennedy Space Center Office of Procurement MAIL CODE OP-OS KENNEDY SPACE CENTER FL 32899	CODE KSC	7. ADMINISTERED BY (If other than Item 6) NASA/Kennedy Space Center Office of Procurement MAIL CODE OP-OS-JP ATTN: Bryce Collins KENNEDY SPACE CENTER FL 32899	CODE KSC
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) SPACE GATEWAY SUPPORT Attn: NONE SPECIFIED 2411 DULLES CORNER PARK STE 800 HERNDON VA 20171-3431		(x) 9A. AMENDMENT OF SOLICITATION NO.	
CODE		9B. DATED (SEE ITEM 11)	
FACILITY CODE		X 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1099001	
		10B. DATED (SEE ITEM 11) 08/15/1998	

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.

12. ACCOUNTING AND APPROPRIATION DATA (If required) Net Increase: \$10,987,291
4200201871

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	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) Contract Article G-2 Contract Funding & FAR 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor is not is required to sign this document and return _____ copies to the issuing office.

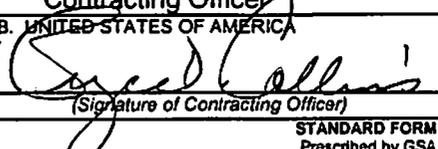
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this unilateral modification is to obligate funding in the amount of \$10,987,291. The funded through date is 8-10-2007.

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.

16A. NAME AND TITLE OF SIGNER (Type or print) 16B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Timothy M. Freeland	
15C. DATE SIGNED		16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 05/18/2007

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 6	
2. AMENDMENT/MODIFICATION NO. 430		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)	
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.		
<p style="text-align: center; font-size: 2em; opacity: 0.5;">FINANCIAL MANAGEMENT COPY</p>			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.					
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: Unilateral Modification in accordance with Attachment J8, JBOSC Award Fee Evaluation Plan					
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>The purpose of this modification is to revise Articles B-3 and B-4 to reflect the amount of award fee earned as determined by the Fee Determination Official on May 25, 2007, for the period October 1, 2006 through March 31, 2007. The award fee earned is \$7,064,731. The total available award fee pool is reduced by \$1,761,683 from \$8,808,414 to \$7,046,731.</p> <p>As a result of the above changes, Articles B-3, B-4 and G-2 are revised (see attached).</p> <p>Amounts computed were based upon Article B-4 amounts reflected in modification number 427.</p> <p>NOTE: THE NET PAYMENT DUE IS \$440,921 (EARNED AWARD FEE FOR THE PERIOD OF \$7,046,731 MINUS THE PROVISIONAL AWARD FEE PAYMENT DISBURSED DURING THE PERIOD TOTALING \$6,605,810).</p> <p>All other terms and conditions of the contract remain unchanged.</p> <p style="text-align: center;">End of Modification</p>					
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 	
(Signature of person authorized to sign)				(Signature of Contracting Officer)	
				16C. DATE SIGNED 5/25/07	

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)	\$278,673,577	\$17,043,983	295,717,560
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	\$304,569,522	\$17,043,983	321,613,505
(10/01/05-09/30/06)	\$261,815,603	\$14,038,268	275,853,871
Neg. Cost Overrun MOD 135	\$29,101,654	\$0	29,101,654
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			\$0
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)	\$264,585,799	\$17,291,414	281,877,213
Neg. Cost Overrun MOD 135	\$31,867,270	\$0	31,867,270
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 430		(\$1,761,683)	(1,761,683)
Total FY07	\$296,453,069	\$15,529,731	311,982,800
(10/01/07-9/30/08)	\$269,608,508	\$17,586,396	287,194,904
Neg. Cost Overrun MOD 135	\$33,448,837	\$0	33,448,837
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			0
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	\$33,582,937	638,928,474
TOTAL CONTRACT			
VALUE SEP98-SEP08	\$2,640,091,802	\$146,421,702	\$2,786,513,504
*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 418	Total Award Fee For Mod 430	Adjusted Available Award Fee	Earned Award Fee Mod 418	Earned Award Fee Mod 430	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	\$9,788,304		\$9,788,304	\$9,103,437		\$9,103,437	93%Mod 283
14	04/01/05	09/30/05	\$8,965,371		\$8,965,371	\$8,158,346		\$8,158,346	91%Mod325
15	10/01/05	03/31/06	\$9,221,727		\$9,221,727	\$7,561,818		\$7,561,818	82%Mod350
16	04/01/06	09/30/06	\$8,093,264		\$8,093,264	\$6,701,223		\$6,701,223	82.8%Mod393
17	10/01/06	03/31/07	\$8,808,414		\$8,808,414	\$8,808,414	(\$1,761,683)	\$7,046,731	80%Mod430
18	04/01/07	09/30/07	\$8,712,760		\$8,712,760				
19	10/01/07	03/31/08	\$8,895,212		\$8,895,212				
20	04/01/08	09/30/08	\$8,928,232		\$8,928,232				
GRAND TOTAL			\$162,022,576	\$0	\$162,022,576			\$146,421,702	Earned & Available

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONT. T ID CODE	PAGE OF PAGES 1 10
2. AMENDMENT/MODIFICATION NO. 431	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY CODE OPOS 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.				
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.)				
The purpose of this modification is to definitize Change Order 396 to provide for an equitable adjustment for HSPD-12 Increased Background Investigations and Badging Enrollment. The total contract estimated cost and fee is increased by \$1,635,646 in cost and \$130,008* in fee for a total increase of \$1,765,654.				
This change revises Article B-3, Contract Value; Article B-4, Award Fee; Article G-2 Contract Funding; Article I-1, Clauses Incorporated by Reference and Attachment J-12, Workload Indicators, as shown on the attached pages. 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.				
*The contractor may include \$3,364 in a future award fee voucher to reflect the increase resulting from this modification for award fee period # 17. Award fee adjusted for period # 17 to reflect earned award fee percentage.				
Modification 431 issued prior to modification 428 and subsequent to modifications 429 and 430.				
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 G. Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED 31 May 07		16B. UNITED STATES OF AMERICA <i>Ernest G. Tweedie</i> (Signature of Contracting Officer)
				16C. DATE SIGNED 31 MAY 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 430 (does not include mod 428)			
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

<u>Option Period 1 Oct 04 - 30 Sept 06</u>			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Options Thru Mod 430 (does not include mod 428)			
OPTION 1B			
(10/01/04-09/30/05)	\$278,673,577	\$17,043,983	295,717,560
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	\$304,569,522	\$17,043,983	321,613,505
(10/01/05-09/30/06)	\$261,815,603	\$14,038,268	275,853,871
Neg. Cost Overrun MOD 135	\$29,101,654	\$0	29,101,654
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No.			\$0
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
<u>Option Periods 1 Oct 06 - 30 Sep 08</u>			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
OPTION 1C			
(10/01/06-9/30/07)	\$264,585,799	\$15,529,731	280,115,530
Neg. Cost Overrun MOD 135	\$31,867,270	\$0	31,867,270
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 431	\$1,267,079	\$100,523	1,367,602
Total FY07	\$297,720,148	\$15,630,254	313,350,402
(10/01/07-9/30/08)	\$269,608,508	\$17,586,396	287,194,904
Neg. Cost Overrun MOD 135	\$33,448,837	\$0	33,448,837
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 431	\$368,567	\$29,485	398,052
Total FY08	\$303,425,912	\$17,615,881	321,041,793

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	\$606,981,183	\$33,712,945	640,694,128
TOTAL CONTRACT			
VALUE SEP98-SEP08	\$2,641,727,448	\$146,551,710	\$2,788,279,158
*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 430 (Does not include Mod 428)	Total Award Fee For Mod 431	Adjusted Available Award Fee	Earned Award Fee Mod 430 (Does not include Mod 428)	Earned Award Fee Mod 431	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	\$9,788,304		\$9,788,304	\$9,103,437		\$9,103,437	93%Mod 283
14	04/01/05	09/30/05	\$8,965,371		\$8,965,371	\$8,158,346		\$8,158,346	91%Mod325
15	10/01/05	03/31/06	\$9,221,727		\$9,221,727	\$7,561,818		\$7,561,818	82%Mod350
16	04/01/06	09/30/06	\$8,093,264		\$8,093,264	\$6,701,223		\$6,701,223	82.8%Mod393
17	10/01/06	03/31/07	\$8,808,414	\$4,208	\$8,812,622	\$7,046,731	\$3,364	\$7,050,095	80%Mod430
18	04/01/07	09/30/07	\$8,712,760	\$97,159	\$8,809,919				
19	10/01/07	03/31/08	\$8,895,212	\$21,571	\$8,916,783				
20	04/01/08	09/30/08	\$8,928,232	\$7,914	\$8,936,146				
GRAND TOTAL			\$162,022,576	\$130,852	\$162,153,428			\$146,551,709	Earned & Available

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
3.1.2	Security	<p>KSC DATA: (Mod 255)</p> <ul style="list-style-type: none"> • 62 classified documents in KSC System • 1800 classified document transactions annually • 15 boxes classified waste destroyed annually • 1,500 RP hang-tags processed • 900 Interim PRP investigations processed annually (Mod 431) • 2400 Foreign Visitors processed annually • 250 criminal investigations • 24 Astronaut escorts • 24 Astronaut family escorts • Consolidate NFLET for 11 NASA Centers, at four CONUS locations, annually • Publish 4 Quarterly Security Awareness Newsletter (Mod 232) • Publish 4 Quarterly Security Awareness Bulletin (one in color) (Mod 232) • STS TAL Support <ul style="list-style-type: none"> -- Two FY05 overseas TAL support -- Six FY06-08 overseas TAL support • FY07 21,000 Background Investigation Processing Support (Mod 431) • FY07 22,100 KSC Badge Enrollment Identification Verification (Mod 431) • FY08 3,900 KSC Badge Enrollment Identification Verification (Mod 431) 	MOD 135	
		<p>KSC & CCAFS JOINT DATA: -- Federal Arrest Authority Training: (Mod 255)</p>		

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
		<ul style="list-style-type: none"> • 18 Local NFLET classes (Mod 232) -- Security Specialized Training: (Mod 255) <ul style="list-style-type: none"> • 180 hours specialized training for SFT Officer (Mod 297) • Range used by 50 outside agencies • 10 hours per year for Florida LE Certification • Security Awareness • 12 Publications • 220 briefings -- Badging: (Mod 255) <ul style="list-style-type: none"> • 4,500 AF & 10,000 22,000 KSC Resident badges (Mod 297) (Mod 431) • 45,000 AF & 63,000 40,000 KSC Temporary badges (Mod 431) • 25,000 NASA area permits • 1,675 NASA Foreign National permits • 1,300 22,000 fingerprint request (Mod 431) -- Resource Protection: (Mod 255) <ul style="list-style-type: none"> • 165 inspection & assessments • 51 Resource Protection surveys • 117 special requests • 60 Vulnerability Tests • 250 civil court appearances • 80 hrs Survey KSC Security barricades • 126 Design Reviews -- Traffic Control: (Mod 255) <ul style="list-style-type: none"> • 9,000 traffic responses • 250 vehicle accidents • 3,060 KSC/CCAFS citations 		

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
		<ul style="list-style-type: none"> • 1,500 Florida Uniform Traffic citations • 250 Federal US Magistrate citations -- Locksmith: (Mod 255) <ul style="list-style-type: none"> • 32,700 keys manufactured annually • 13,500 core & lock actions annually • 3,050 locks installed annually • 250 security container lockouts annually • 750 safe combination/locks retrofitted annually • 216 lockouts or lock failures annually (Mod 205) • 20 classified safe combination changes annually 		
3.1.2	Security			

PART II - CONTRACT CLAUSES

Section I

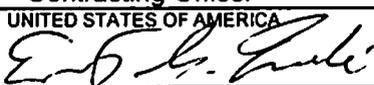
Contract Clauses

ARTICLE I-1 FAR 52.252-2 CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the contracting officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address: http://nais.msfc.nasa.gov/msfc/nasa_ref.html.

A. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES:

<u>Clause Number</u>	<u>Title</u>
52.202-1	DEFINITIONS (OCT 1995)
52.203-3	GRATUITIES (APR 1984)
52.203-5	COVENANT AGAINST CONTINGENT FEES (APR 1984)
52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (JUL 1995)
52.203-7	ANTI-KICKBACK PROCEDURES (JUL 1995)
52.203-8	CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)
52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY (JAN 1997)
52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS (JUN 1997)
52.204-2	SECURITY REQUIREMENTS (AUG 1996)
52.204-4	PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER (JUN 1996)
52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (NOV 2006) (Mod 396/431)
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (JUL 1995)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 432		3. EFFECTIVE DATE May 31, 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 31 May 07" to "Definitization of this change order will occur not later than 12 Jul 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	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)	
				16C. DATE SIGNED 30 May 2007	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 18
2. AMENDMENT/MODIFICATION NO. 433	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).				
<input checked="" type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: FAR 52.219-9 SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN (AUG 1998) - ALTERNATE II (MAR 1996)				
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 incorporate the following no-cost change:</p> <p>Revise Article B-2, Article H-14 and Section J, Attachment J-11; Small Business, Small Disadvantaged and Women-owned Small Business Subcontracting Plan (4/1/07 – 9/30/07).</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>				
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 Victoria Lockard (Signature of person authorized to sign)	15C. DATE SIGNED 4 June 07	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 6-5-07	

**ARTICLE H-14 SMALL BUSINESS AND SMALL DISADVANTAGED
SUBCONTRACTING PLAN**

Pursuant to the clause entitled "Small Business and Small Disadvantaged Business Contracting Plan," the following approved contractor's subcontracting plans is incorporated in Section J-11:

Period Covered

Plan Date

4/01/07 – 09/30/07

4/23/07 (Mod 433)

Revised subcontracting plans shall be submitted every six months to address the aggregate effect on the subcontracting plan. If changes exceed the current Master Buy Plan threshold they will be addressed separately. (Mod 251)

**ARTICLE B-2 SMALL BUSINESS AND SMALL DISADVANTAGED
BUSINESS SUBCONTRACTING**

NASA's objective is to ensure the execution of a vigorous program at the prime contract and subcontractor levels which will optimize the opportunity for subcontract participation of small business, small disadvantaged business, and women owned business concerns.

To this end and notwithstanding the language in clauses FAR 52.219-9 "Small Business and Small Disadvantaged Business Subcontracting Plan," and NFS 1852.219-76 "NASA 8 Percent Goal," the contractor shall, as a minimum, establish the following for subcontracting in amounts equaling the specified percentages of total contract value:

Small Business (SB)*	34.5%	Mod 433
Small Disadvantaged Businesses (SDB)**	17.0%	Mod 433
Women-Owned Businesses (WOB)***	7.5%	Mod 117

* includes SB, SDB, and WOB

** includes only SDB

*** includes only WOB

These goals may be met by any combination of vendor purchases, subcontracts, or other business arrangements.

**Small Business, Small Disadvantaged and Women-Owned Small
Business Subcontracting Plan (4/01/07-9/30/07)**

Contractor: Space Gateway Support (SGS)
Address: P. O. Box 21237, SGS 310
Kennedy Space Center, FL 32815-0237

Contract No.: NAS10-99001

Item/Service: JOINT BASE OPERATIONS SUPPORT CONTRACT (JBOSC)

SGS shall, to the maximum extent practicable and consistent with the efficient performance of our contract, provide opportunities for small, small disadvantaged and women-owned small businesses.

The following is hereby submitted as SGS's Subcontracting Plan to satisfy the applicable requirements of Contract Number NAS10-99001, for **Contract Period April 1, 2007 through September 30, 2007.**

- 1) The total estimated dollar value of this contract period is **\$145.920M**
- 2) The total estimated dollar value of all planned subcontracting (to all types of business concerns, both small and large businesses) under this contract is **\$68.113M.**
- 3) The following goals first expressed in terms of a percentage of total planned subcontracting dollars, and second expressed in terms of a percentage of **TOTAL CONTRACT VALUE**, are applicable to the contract cited above.
 - a) **Small Business Concerns: 73.91%** of total planned subcontracting dollars under this contract will go to subcontractors who are small business concerns. This equates to **34.5%** of the Total Contract Value.
 - b) **Small Disadvantaged Business concerns: 36.42%** of total planned subcontracting dollars will go to subcontractors who are small business concerns, owned and controlled by socially and economically disadvantaged individuals. This equates to **17.0%** of the total contract value. This percentage is included in the percentage shown under 3(a) above, as a subset.

- c) **Women-Owned Small Business concerns: 16.07%** of total planned subcontracting dollars under this contract will go to subcontractors who are owned and controlled by women. This equates to **7.5%** of the total contract value. This percentage is included in the percentage shown under 3(a) above, as a subset.
 - d) **Veteran-Owned Small Business concerns: 0%** of total planned subcontracting dollars under this contract will go to subcontractors who are owned and controlled by veterans. This equates to **0%** of total contract value.
 - e) **Service-Disabled Veteran-Owned Small Business concerns: 0%** of total planned subcontracting dollars under this contract will go to subcontractors who are owned and controlled by service-disabled veterans. This equates to **0%** of total contract value.
 - f) **HUBZone Small Business concerns: 0%** of total planned subcontracting dollars under this contract will go to subcontractors who located in a HUBZone. This equates to **0%** of total contract value.
- 4) The following dollar values correspond to the percentage goals shown in 3 above.
- a) **Total dollars planned to be subcontracted to Small Business concerns: \$50.342M**
 - b) **Total dollars planned to be subcontracted to Small Disadvantaged Business concerns: \$24.807M.** This dollar amount is included in the amount shown under 4(a) above as a subset.
 - c) **Total dollars planned to be subcontracted exclusively to Women-Owned Small Business concerns: \$10.944M.** This dollar amount is included in the amount shown, under 4(a) above, as a subset.
 - d) **Total dollars planned to be subcontracted to Veteran-Owned Small Business concerns: \$0.**
 - e) **Total dollars planned to be subcontracted to Service-Disabled Veteran-Owned Small Business concerns: \$0.**
 - f) **Total dollars planned to be subcontracted to HUBZone Small Business concerns: \$0.**

	Total Dollars	% of CV	% of Subcontracted Dollars
Contract Value (CV)	\$145,920,681		
Total Subcontracted Dollars	\$68,113,265.00		
Small Business spending	\$50,342,634.95	34.5	73.91%
Small Disadvantaged	\$24,806,515.77	17.0%	36.42%
Woman Owned (WO)	\$10,944,051.08	7.5%	16.07%
Veteran-Owned	\$0	0%	0%
Service-Disabled Veteran-Owned	\$0	0%	0%
HUBZone	\$0	0%	0%

5) The following services and products are subcontracted under this Contract:

g) The following services/products are subcontracted via teaming agreements to small businesses. The Function or Contract Requirement and small business classification(s) are set forth below:

Function/Contract Requirement	Small Business Classification
Propellant Services	SB
Component cleaning and refurbishment of laboratories	WOSB
Managing and administering occupational health and environmental programs	SB
Administrative services and information technology support	SDB
Computer	WOSB
Facilities maintenance and vehicle services	SDB

h) The following other direct cost categories are contemplated to be subcontracted to Small Businesses.

OTHER DIRECT COSTS

<u>SOW</u>	<u>ODC ITEM</u>	<u>DESCRIPTION</u>	<u>METHOD OF SELECTION</u>
Various	Supplies & Materials	Supplies and materials required to support all functions, including stock items, non-stock items, government furniture, stock replenishment, and procured bulk chemicals. Also includes charges for off-the-shelf software purchases and licenses of \$25,000 or less.	<\$25K set-asides to Small Business competition. >\$25K open competition.
Various	Facilities Projects	Facility projects for maintenance, repair, rehabilitation and modification of existing facilities, including energy management and conservation, environmental management, maintenance and restoration facilities. Also included are modifications and alterations to contractor systems equipment and facilities, and the fabrication and provision of other services that are within the contractor's capabilities to support requirements of other elements.	<\$3M set-asides to Small Business competition. >\$3M open competition.
Various	Lcase/Maint. Misc. Subcontracts		<\$25K set-asides to Small Business competition. >\$25K open competition.

Various
Equipment
Acquisition

<\$25K set-asides to Small Business
competition. >\$25K open competition.

5) All procurements less than \$25K will be small business set-asides. Construction/re-manufacturing work less than \$3 million will be set-aside for small businesses.

a) As a further breakout to the above, the following products and services are set forth by historical subcontract type:

<u>Products/Services</u>	<u>Subcontract Type</u>
++ Construction Services	FFP
++ Various Vendor Purchases, e.g.:	FFP/BPA
++ Commodities	FFP/BPA
<ul style="list-style-type: none"> • Electrical Components • Construction Materials • Reproduction Equipment and Supplies • General Hardware • Computer Maintenance • Computer Hardware/Software and Supplies • General Office Supplies • Safety and Laboratory Supplies • Automotive and Heavy Equipment Supplies • Specialty Gases • Security and Fire Equipment • Cafeteria Supplies • Janitorial Supplies 	
++ Various Lease/Rentals	FFP
++ Various Maintenance and Service Agreements	FFP/BPA
+++ OEM Mainframe Peripherals and/or Proprietary Software Licenses/ Agreements	FFP/BPA

+++	Various GSA/Depot Commodities and Services	FFP
+++	Various Hazardous Waste Disposal Requirements	FFP
+++	Various Heavy/Specialized Equipment OEM Direct Purchases	FFP

LEGEND

- + Indicates Subcontracts in Place -- No further Opportunities (Requirements Complete).**
- ++ Indicates Some Subcontracts are in Place and Additional Requirements are Expected and yet Undefined.**
- +++ Indicates Some Subcontracts in Place with Large Businesses, and Additional Requirements are Expected and yet Undefined.**

6) The following will be used in developing subcontracting goals:

- a) Historical data - i.e., what products and services we have obtained from Small, Small Disadvantaged, or Women-Owned Small Business etc.**
- b) Trade-off analysis for budgetary considerations and estimated Contract value projections to ensure Small, Small Disadvantaged and Women-Owned Small Business requirements are met or exceeded.**
- c) Particular attention will be focused on the needs of SGS as it relates to the overall small, small disadvantaged, and women-owned small business goal accomplishments.**

7) What source lists will be used and what organizations will be contacted to obtain Small Business, Small Disadvantaged, and Women-Owned Business sources:

- a) SBA's - Procurement Marketing & Access Network (PRO-NET)**
- b) SGS - Minority Supplier List, which contains a compilation of vendors from SGS bid lists, Florida Minority Business Directory, PRO-NET, and 8.a. approved lists published by the SBA Regional/District Office.**
- c) Directories published by other companies and Government agencies.**
- d) Contact with Regional Minority Purchasing Councils.**
- e) SGS's Central Industry Assistance Officer.**
- f) GSA/DLA Listings**

- g) National Industries of the Blind
- h) National Industries for the Severely Handicapped
- i) SGS's indirect and overhead costs have not been included in the goals specified in 1 and 2.

8) The following individual will oversee the SGS Subcontracting Program:

Name: Vicki Lockard
Title: Director, Contracts
Address: P.O. Box 21237, SGS 310
Kennedy Space Center, FL 32815-0237
Telephone: 321-853-9280

This individual's specific duties, as they relate to the SGS Subcontracting Plan, are to review, monitor, and provide executive guidance, including but not limited to:

Assigning a Small Business Liaison Officer (SBLO)/Industry Assistance Officer, to advise Small Business of pending procurement actions and to provide liaison activities between SGS's Technical representatives, Industry Assistance Officer, SGS's Contracts and Procurement Administrators, management, and the business community.

Ms. Cindi Minter is delegated as the Small Business Liaison Officer (SBLO). Her duties, responsibilities, mailing address and telephone numbers are set forth below:

Name: Cindi Minter
Title: Small Business Liaison Officer
Address: P. O. Box 21237, SGS 320
Kennedy Space Center, FL 32815-0237
Telephone: 321-476-3669
Fax: 321-853-5528

Duties:

- (a) Obtaining Small, Small Disadvantaged, and Small/ Women-Owned Business sources from all applicable agencies, such as SBA.
- (b) Ensuring inclusion of Small Business, Small Disadvantaged Business, and Women-Owned Small Business firms in all solicitations, where appropriate.
- (c) Attending or arranging for attendance at business opportunity workshops, minority enterprise seminars, trade fairs.
- (d) Conducting or arranging motivational training for contracts/procurement personnel.
- (e) Monitoring attainment of proposed goals/requirements.
- (f) Reviewing solicitations to remove statements, clauses, etc., that may tend to prohibit Small, Small Disadvantaged, and Women-Owned Small Business participation, where appropriate.
- (g) Maintaining records of Small, Small Disadvantaged, and Women-Owned Small

Businesses.

- (h) **Assisting in developing subtier subcontract plans.**
 - (i) **Acting as liaison to SBA.**
 - (j) **Coordinating efforts to meet procurement goals/requirements.**
- 9) **The following minimum efforts will be taken to ensure that Small, Small Disadvantaged, and Women-Owned Small businesses have an equitable opportunity to compete for subcontracts and Purchase Orders:**

Outreach efforts will be made, as follows:

- a) **Contact with minority and small business trade associations.**
- b) **Contact with business development organizations.**
- c) **Attendance at small and minority business procurement conferences and trade fairs.**
- d) **Visits to supplier plants and correspondence with suppliers to establish qualifications of suppliers.**
- e) **Working with other on-site prime contractors and to assist (when possible) in coordinating: Small Business workshops or conferences, the purpose of which is to provide insight on how small businesses can become Team Members.**

The following internal efforts will be made to guide and encourage SGS contract administrators and procurement personnel:

- a) **Workshops, seminars, and training programs will be conducted.**
- b) **Activities of individual administrators will be monitored to evaluate compliance with this Subcontracting Plan and Small Business requirements.**
- c) **Small, Small Disadvantaged, and Women-Owned Small Business source lists, guides, and other identifying Small Business suppliers will be maintained and**

used by administrators in soliciting subcontracts.

- d) All procurements under \$25,000 are reserved exclusively for Small Businesses except when there is no reasonable expectation that offers will be received—from two or more small businesses, which are competitive as to price, delivery, or quality.
 - e) All fixed-price construction contracts between \$2,000 and \$3,000,000 are set-asides for small business.
 - f) Small business set-asides are encouraged when the dollar amount exceeds the amount specified above.
 - g) Women-Owned Small Business set-asides will be used when there is a reasonable chance that two or more Women-Owned Small firms possess the required qualifications to compete.
- 11) SGS agrees that the clause entitled "Utilization of Small Business Concerns Owned and Controlled by Socially and Economically Disadvantaged Individuals" will be included in all subcontracting opportunities, and any subcontract, except Small Business Concerns who receive a subcontract in excess of \$500,000 (\$1,000,000 for construction) will be required to adopt and comply with a Subcontracting Plan similar to this one. Percentage goals shall be determined on a case-by-case basis depending on the supplies/services involved, the availability of potential Small, Small Disadvantaged, and Women-Owned Small subcontractors, and prior experience. Once approved and implemented, plans will be monitored through submission of periodic reports, and/or, as time and availability of funds permit, periodic visits to subcontractors' facilities to review applicable records and Subcontracting Program progress.
- 12) SGS agrees to submit such periodic reports and to cooperate in studies or surveys as may be required by Government or the Small Business Administration in order to determine the extent of compliance with the Subcontracting Plan.
- 13) In addition, SGS agrees that it will submit to the Contracting Officer the contract data requirement documents in accordance with the terms and condition(s) of this contract. Reports will be coordinated/structured to allow for optimum efficiency in reporting. SGS will satisfy all additional requirements for reports, such as advise-o-grams, special studies, one-time requests, and other documentation within funding limitations or budgetary

constraints and as approved by the Contracting Officer.

14) SGS agrees that it will maintain at least the following types of records to document compliance with the Subcontracting Plan:

- a) Contract Data Deliverables Documents as required under the terms and conditions of the J-BOSC Contract.
- b) Small, Small Disadvantaged Business, and Women-Owned Small source lists, guides, and other data identifying Small Business, Small Disadvantaged Business, and Women-Owned Small Business vendors.
- c) Organizations contracted for Small/Small Disadvantaged and Women-Owned Small Business sources.
- d) Records to support outreach efforts, i.e., contacts with Minority and Small Business Trade Associations, attendance at Small and Minority Business procurement conferences and trade fairs, and visits to supplier plants.
- e) On a subcontract-by-subcontract basis, records to support award data submitted to the Government, to include subcontractor's name, address, and business size.
- f) To submit Standard Form (SF) 294, Subcontracting Report for Individual Contracts and/or SF-295, Summary Subcontract Report, in accordance with instructions on the form.
- g) To require all subcontractors to submit SF-294 and SF-295, if applicable.
- h) To ensure Small, Small Disadvantaged and Women-Owned Small Businesses are considered in all "make or buy" decisions and to establish a program whereby periodic training is conducted with technical personnel and employees preparing requisitioning documentation.
- i) To submit other data and information as requested by the Contracting Officer or contained within supplements to the data requirements listing of this contract.

Concurrence:

Victoria Lockard

Victoria Lockard
Director, SGS Contracts

Date: 4/23/07

Approved:

William Sample

William Sample
President, SGS

Date:

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONT. ID CODE	PAGE OF PAGES 1 8
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2. AMENDMENT/MODIFICATION NO. <p style="text-align: center;">434</p>	3. EFFECTIVE DATE <p style="text-align: center;">See Block 16C</p>	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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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
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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. <p style="text-align: center;">NAS10-99001</p>
	10B. DATED (SEE ITEM 13) <p style="text-align: center;">August 21, 1998</p>

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.

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 is not, 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.)

The purpose of this no cost modification is to update the current WBS 3.4 Workload Indicators (WLIs) to provide more accurate accountability.

This change revises Attachment J-12, Workload Indicators, as shown on the attached pages. 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.

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 G. Lockard</i> (Signature of person authorized to sign)	15C. DATE SIGNED 18 Jun 07
	16B. UNITED STATES OF AMERICA <i>Ernest G. Tweedie</i> (Signature of Contracting Officer)
	16C. DATE SIGNED 18 Jun 07

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
3.4	Administrative Services			
3.4.1	Publications	<p>KSC DATA: (Mod 135) (Mod 205) (Mod 255) (Mod 348) (Mod 434)</p> <ul style="list-style-type: none"> • 50,000,000 units of B&W Printing/Duplicating • 1,500,000 1,000,000 units Color Copying • 67,200,000 units Printing/Duplicating • 500,000 units Color Copying • 1,800,000 units Engineering Drawing Reproduction and Multi-Color digital printing <p>Unit of measure square feet (Mod-205)</p> <p>Microimaging (Mod 144) (Mod 205) (Mod 255) (Mod 434)</p> <ul style="list-style-type: none"> • 3,365,653 4,250,000 images Documents scanned and CD-ROM disks • 1,700,000 850,000 images Indexed PDF Images • 49,759 aperture cards - 35mm Original Aperture cards encoded, interpreted and printed (Mod-144) (Mod-205) • 109,759 dupe aperture cards 35mm Aperture card duplicates (Mod-144) • 105,518 52,759 images Aperture card scanning for KEDS raster files (Mod-144) • 65,000 35,000 images Fiche images scanned to CD-ROM disks. (Mod-205) • 500,000 200,000 prints Aperture/Microfiche card prints (8.5x11 to 18x24 in.) <u>in support of Shuttle, as required</u> • 1,627,759 Repository silver microforms inventory (Mod-144) 		

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
		<ul style="list-style-type: none"> • 20,000 40,000 Images converted to electronic word file format Film Storage Building Custodian: <ul style="list-style-type: none"> • 1,010 operation hours annually. Graphics: (Mod 154) (Mod 205) (Mod 255) (Mod 434) <ul style="list-style-type: none"> • 29,523 units Graphics illustrations (art renderings, cartooning, logo design, photo-retouching, and technical drawings): • 1,909 units Graphics charts, graphs, and diagrams: • 22,707 units Graphics Support Elements and Processes (badges, certificates, labels, lettering, name plates, tent cards, signage, sign-out boards, dry mounting, laminating, matting, framing, and scanning of graphic elements): • 62,535 units Displays and Posters: • 650 Complex Graphic products consisting of displays, posters, charts, graphs, publications and illustrations, that require lengthy conceptual planning and frequent customer interface • 850 Average Graphic products consisting of badges, certificates, labels, lettering, name plates, tent cards, signage, sign out boards, dry mounting, laminating, matting, framing, and scanning of graphic elements • 700 A/V presentations • 60 960 equipment loan issuances/returns • 600 Forms analysis and development • 900 4,903 Forms and Publication orders 		

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
		<ul style="list-style-type: none"> • 51 KSC Bulletins produced • 26 biweekly "Spaceport News" issues published • 8,330 Publications pages prepared (Mod-154) • 3 Web pages supported with weekly updates • 6 PAO Web pages maintained with weekly updates (Mod-154) • <u>350</u> 840 PAO writing assignments (Mod-154) • Captions for 2,215 photos (Mod-154) • PAO Pre and Post Launch/Mission Materials for 6 Launches: (Mod-154) • PAO Library Reference Materials for 6 Launches • 30,990 PAO Fan Mail kits & Special items disseminated • PAO launch passes – <u>Level of Effort</u> 5,000 ear passes annually for 6 launches NASA Portal/ELV Support: (Mod-208) • 40 Web Broadcasts • 12 Web Sites NASA Portal-Missions Section: — (Mod-208) • 6 Narrative Features per week NASA Portal /ELV Support (Mod 208) (Mod 434) • 360 Updates to Mission Sites (snippets) annually • 96 Features Annually—Research, Write & Edit • 36 Annually—Photogalleries: Populate template pages and layout pages • 60 Annually—Research, Write, Edit Post 		

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
		<p>Videos</p> <ul style="list-style-type: none"> • 36 Annually—Research, Write, Edit, and Post Podcasts • 270 Annually—Create new or migration of old pages • 96 Annually—Release and Post Press Releases • 48 Annually—Release and Post Status Reports • 6 Annually—Webcasts: Coordinate, Write Scripts, Promote and Post on Web • 5 per launch—Launch Highlight Videos: Transcribe, Create RT File Captions and Post 		
3.4.1	Engineering Document Control	<ul style="list-style-type: none"> • 2,000 636 Document Release Authorizations • 24,180 KSC Engineering Documentation sheets processed (Mod 205) (Mod 434) 		
3.4.1	Publications	<ul style="list-style-type: none"> • Information Reproduction Management Reports, Annual One per year (Mod 205) 		
3.4.2	Library	<p>KSC DATA: (Mod 135) (Mod 205) (Mod 398) (Mod 434)</p> <ul style="list-style-type: none"> • 140,000 reference requests • 38,900 37,700 library/office copy materials orders • 1,234 1,082 Book acquisitions • 1,000 848 Serials acquisitions • 45,000 cataloging updates • 87,000 library/office copy materials circulations 		

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
		<ul style="list-style-type: none"> • Spaceport News Index – Make each issue available on the internet <u>(Level of Effort)</u> • Specifications and Standards Index – Make available on the internet <u>(Level of Effort)</u> • Annual KSC Chronology – Make each issue available on the internet <u>(Level of Effort)</u> • <u>5</u> 8 public access computer terminals provided • 50 Dialog online information service requests • 3,550 OCLC online information service requests 		
3.4.2	Library	<ul style="list-style-type: none"> • Kennedy Technical Reports <u>Server Survey</u> 		
3.4.3	Mail	<p>KSC DATA: (Mod 135) (Mod 205) <u>(Mod 434)</u></p> <p>Mail distribution:</p> <ul style="list-style-type: none"> • <u>2,200,000</u> 4,015,000 U.S. Mail Pieces • 780 trips - External Transport of U.S. Mail – • 2,800,000 Document Copy Distribution Addressing • 1,394 mail stops daily (363,834 total) • 6,500,000 Intra-center mail-piece distribution <p>KSC Official Bulleting Board and Newsletter Holder Support:</p> <ul style="list-style-type: none"> • 4,160 posting and removals • 13 bulletin boards • 27 newsletter holders <p>Special Documents Distributed:</p> <ul style="list-style-type: none"> • 48 pickups and deliveries - Special Document Distribution from Duplicating Center • 4,200 country phone books – Once annually <p>Mail Collection from KSC Drop Boxes:</p>		

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
		<ul style="list-style-type: none"> • 4,160 Collections • Collect twice daily, Monday-Friday • U.S. mail drop boxes in: Headquarters (M6-399), LCC (K6-900) MFF (K6-1145), SSPF (M7-360), adjacent to the Auditorium and Training Building (M7-351), 2nd CCAFS Hangar Road. Branch U.S. Postal Office: <ul style="list-style-type: none"> • 2,063 hours of customer counter service • Counter service from 10:00 a.m. to 3:00 p.m. daily (workdays) • 70 Post Office rental boxes • 70,000 40,000 NASA mail pieces metered Personnel Locator Services: <ul style="list-style-type: none"> • 251 days • 154 calls supported per day • Telephone customer assistance from 8:00 a.m. to 4:00 p.m. daily • 18,000 database updates • KSC Telephone Directory revision – 1 telephone directory proof copy per year • 23 building directory boards maintained. Updated monthly • 3,000 procurement document mailing support jobs PA courier support for launches and landings		
3.4.3	Mail	<ul style="list-style-type: none"> • Monthly Postal Expense Report (Mod 135) 		
3.4.3	Mail	<ul style="list-style-type: none"> • 163 CCAFS Mail Stops. (Mod 135) 		
3.4.4	Technical Training	(Mod 135)		

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
3.4.4	Technical Training	(Mod 135)		
3.4.4	Technical Training	(Mod 135)		

AMENDMENT OF SOLICITATION/MODIFICATION CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 000435	3. EFFECTIVE DATE 05/31/2007	4. REQUISITION/PURCHASE REQ. NO. See Schedule	5. PROJECT NO. (If applicable) J-BOSC
6. ISSUED BY NASA/John F. Kennedy Space Center Office of Procurement MAIL CODE OP-OS KENNEDY SPACE CENTER FL 32899	CODE KSC	7. ADMINISTERED BY (If other than Item 6) NASA/Kennedy Space Center Office of Procurement MAIL CODE OP-OS-JP ATTN: Bryce Collins KENNEDY SPACE CENTER FL 32899	CODE KSC
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) SPACE GATEWAY SUPPORT Attn: NONE SPECIFIED 2411 DULLES CORNER PARK STE 800 HERNDON VA 20171-3431		(x) 9A. AMENDMENT OF SOLICITATION NO.	
CODE		FACILITY CODE	
		X 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1099001	
		10B. DATED (SEE ITEM 11) 08/15/1998	

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.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
Net Increase: \$822,581
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	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 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:
X	D. OTHER (Specify type of modification and authority) Contract Article G-2 Contract Funding & FAR 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor 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.)
The purpose of this unilateral modification is to obligate funding in the amount of \$822,581. The funded through date is 8-11-2007.

This change revises Article G-2, as shown on the attached page.

15A. NAME AND TITLE OF SIGNER (Type or print) Timothy M. Freeland		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Timothy M. Freeland	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 05/31/2007
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

ARTICLE G-2		CONTRACT FUNDING				
Pursuant to FAR Clause 52.232.22, Limitation of Funds, funds presently allotted to this contract and the period through which they are estimated to be adequate are specified in the table below:						
The below table is created with the beginning values based on modification 371						
As of MOD	Contract Value	Funded Cost	Funded Fee	Total Funded Cost/Fee	ADEQUATE THROUGH	
Subtotal as of Mod 371	\$2,807,573,014	\$2,031,284,171	\$163,520,197	\$ 2,194,804,368	12/8/2006	
374	\$462,548					
376		\$3,239,869	\$259,190.00	\$ 3,499,059	12/15/2006	
377	\$244,132					
378	(\$13,628,301)					
379	(\$2,553,358)					
383		\$45,590,925	\$3,647,274	\$ 49,238,199	3/20/2006	
384	\$121,375					
385	(\$703,275)					
388	\$207,277					
389		\$14,362,829	\$1,149,027	\$ 15,511,856	2/13/2007	
391	(\$1,384,405)					
392	\$1,494,374					
393	(\$1,391,489)					
397	(\$1,733,940)					
399		\$69,924,188	\$5,593,935	\$ 75,518,123	5/16/2007	
408		\$2,608,945	\$208,716	\$ 2,817,661	5/20/2007	
410	(\$1,412,377)					
413		\$24,615,995	\$1,969,280	\$ 26,585,275	6/21/2007	
417	\$479,010					
418	\$500,602					
420		\$27,867,048	\$2,229,364	\$ 30,096,412	7/27/2007	
426		\$111,683	\$8,935	\$ 120,618		
429		\$10,173,418	\$813,873	\$ 10,987,291	8/10/2007	
430	(\$1,761,683)					
431	\$1,765,654					
435		\$761,649	\$60,932	\$ 822,581	8/11/2007	
TOTAL	\$2,788,279,158	\$2,230,540,720	\$179,460,723	\$2,410,001,443		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT CODE	PAGE OF PAGES 1 6 w/attach
2. AMENDMENT/MODIFICATION NO. 436		3. EFFECTIVE DATE See Block 16c		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		7. ADMINISTERED BY (If other than Item 6) CODE			
6. ISSUED BY CODE John F. Kennedy Space Center, NASA Procurement Office Kennedy Space Center, FL 32899		OPOS			
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).					
XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <i>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.)					
<p>The purpose of this modification is to incorporate the changes to Launch Readiness Requirements as outlined in Contract Change Request 06-12. The period of performance is 1 May 2005 through 30 Sep 2008.</p> <p>As a result of this modification the following contract attachments, Technical Exhibits and DRD's have been revised and are attached: Attachment J-1, Statement of Work; Attachment J-4, Compliance Documents; Attachment J-5, Technical Exhibits; Attachment J-9, Glossary, Acronyms and Abbreviations; Technical Exhibit 2.1.2-003, MEE Non-Critical Systems for FY07 Reliability Documentation; Technical Exhibit 2.1.3-001, KSC CofF Project Baseline; and DRD 2.2-06 Rev C, Facility maintenance Execution Summary.</p> <p>This change revises Article B-3, Contract Value and Article B-4, Award Fee. All other terms and conditions of the contract remain unchanged.</p> <p>The contract estimated cost is increased by \$4,247,067 and award fee by \$303,034 for a total of \$4,550,101.</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>					
15A. NAME AND TITLE OF SIGNER (Type or print) Victoria G. Lockard Director, Contracts			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Bryce D. Collins Contracting Officer		
15B. CONTRACTOR/OFFEROR <i>Victoria G. Lockard</i> (Signature of person authorized to sign)		15C. DATE SIGNED <i>19 Jun 07</i>		16B. UNITED STATES OF AMERICA BY <i>Bryce D. Collins</i> (Signature of Contracting Officer)	
				16C. DATE SIGNED <i>6/20/07</i>	

ORIGINAL

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 432			
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

<u>Option Period 1 Oct 04 - 30 Sept 06</u>			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
Options Thru Mod 432			
OPTION 1B			
(10/01/04-09/30/05)	\$278,673,577	\$17,043,983	295,717,560
Neg. Cost Overrun MOD 135	\$25,895,945	\$0	25,895,945
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 436	\$89,613	\$6,524	\$96,137
Total FY05	\$304,659,135	\$17,050,507	321,709,642
(10/01/05-09/30/06)	\$258,457,913	\$13,817,003	272,274,916
Neg. Cost Overrun MOD 135	\$29,101,654	\$0	29,101,654
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 436	\$1,288,913	\$84,097	\$1,373,010
Total FY06	\$288,848,480	\$13,901,100	302,749,580
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	\$599,039,770	\$31,394,179	630,433,949
<u>Option Periods 1 Oct 06 - 30 Sep 08</u>			
Contract Period	Estimated Cost	Available Award Fee*	Contract Value
OPTION 1C			
(10/01/06-9/30/07)	\$260,188,185	\$15,222,301	275,410,486
Neg. Cost Overrun MOD 135	\$31,867,270	\$0	31,867,270
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 436	\$1,478,778	\$104,231	1,583,009
Total FY07	\$293,534,233	\$15,326,532	308,860,765
(10/01/07-9/30/08)	\$264,079,621	\$17,144,086	281,223,707
Neg. Cost Overrun MOD 135	\$33,448,837	\$0	33,448,837
Cost Overrun	\$0	\$0	0
Mod No. Cost Overrun			0
Mod No. 436	\$1,389,763	\$108,182	1,497,945
Total FY08	\$298,918,221	\$17,252,268	316,170,489

	Option Periods 1 Oct 08 - 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	\$598,287,577	\$33,045,610	631,333,187
TOTAL CONTRACT			
VALUE SEP98-SEP08	\$2,631,054,678	\$145,753,731	\$2,776,808,409
*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 428	Total Award Fee For Mod 436	Adjusted Available Award Fee	Earned Award Fee Mod 428	Earned Award Fee Mod 436	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	\$9,788,304		\$9,788,304	\$9,103,437		\$9,103,437	93%Mod 283
14	04/01/05	09/30/05	\$8,965,371	\$7,169	\$8,972,540	\$8,158,346	\$6,524	\$8,164,870	91%Mod325
15	10/01/05	03/31/06	\$9,078,192	\$33,585	\$9,111,777	\$7,444,119	\$27,540	\$7,471,659	82%Mod350
16	04/01/06	09/30/06	\$7,968,184	\$68,306	\$8,036,490	\$6,597,657	\$56,557	\$6,654,214	82.8%Mod393
17	10/01/06	03/31/07	\$8,586,503	\$58,552	\$8,645,055	\$6,869,200	\$46,842	\$6,916,042	80%Mod430
18	04/01/07	09/30/07	\$8,582,861	\$57,389	\$8,640,250				
19	10/01/07	03/31/08	\$8,678,137	\$55,452	\$8,733,589				
20	04/01/08	09/30/08	\$8,702,997	\$52,730	\$8,755,727				
GRAND TOTAL			\$160,959,841	\$333,183	\$161,293,024			\$145,753,731	Earned & Available

ARTICLE G-2		CONTRACT FUNDING				
Pursuant to FAR Clause 52.232.22, Limitation of Funds, funds presently allotted to this contract and the period through which they are estimated to be adequate are specified in the table below:						
The below table is created with the beginning values based on modification 371						
<u>As of MOD</u>	<u>Contract Value</u>	<u>Funded Cost</u>	<u>Funded Fee</u>	<u>Total Funded Cost/Fee</u>	<u>ADEQUATE THROUGH</u>	
Subtotal as of Mod 371	\$2,807,573,014	\$2,031,284,171	\$163,520,197	\$ 2,194,804,368	12/8/2006	
374	\$462,548					
376		\$3,239,869	\$259,190.00	\$ 3,499,059	12/15/2006	
377	\$244,132					
378	(\$13,628,301)					
379	(\$2,553,358)					
383		\$45,590,925	\$3,647,274	\$ 49,238,199	3/20/2006	
384	\$121,375					
385	(\$703,275)					
388	\$207,277					
389		\$14,362,829	\$1,149,027	\$ 15,511,856	2/13/2007	
391	(\$1,384,405)					
392	\$1,494,374					
393	(\$1,391,489)					
397	(\$1,733,940)					
399		\$69,924,188	\$5,593,935	\$ 75,518,123	5/16/2007	
408		\$2,608,945	\$208,716	\$ 2,817,661	5/20/2007	
410	(\$1,412,377)					
413		\$24,615,995	\$1,969,280	\$ 26,585,275	6/21/2007	
417	\$479,010					
418	\$500,602					
420		\$27,867,048	\$2,229,364	\$ 30,096,412	7/27/2007	
426		\$111,683	\$8,935	\$ 120,618		
428	(\$16,020,850)					
429		\$10,173,418	\$813,873	\$ 10,987,291	8/10/2007	
430	(\$1,761,683)					
431	\$1,765,654					
435		\$761,649	\$60,932	\$ 822,581	8/11/2007	
436	\$4,550,101					
TOTAL	\$2,776,808,409	\$2,230,540,720	\$179,460,723	\$2,410,001,443		

NAS10-99001

JOINT BASE OPERATIONS AND SUPPORT

CONTRACT

ATTACHMENT J-1

(CHANGES CURRENT THROUGH MOD 436)

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STATEMENT OF WORK

1.0 PROJECT MANAGEMENT

The contractor shall accomplish the Joint Base Operations and Support Contract (J-BOSC). The J-BOSC provides launch support and public works such as civil engineering services, work control, infrastructure sustainment, and base operations support including information technology, logistics, PMEL laboratories, transportation, airfields operations, and protective, administrative, medical, and environmental services to NASA at Kennedy Space Center (NASA-KSC), the Air Force at Cape Canaveral Air Force Station (CCAFS), at Patrick Air Force Base (PAFB), and at the Florida Annexes.

The contractor shall interact, plan, and effectively coordinate and communicate with all levels of customers, both government and other associate contractors. The contractor shall provide reliable and efficient service that fully satisfies the requirements of the U.S. Air Force (USAF) and NASA and allows them to accomplish their diverse missions without exception and concern for their facilities and services.

The contractor shall implement government initiatives such as the maintenance and restoration of facilities, energy management and conservation, and evolving requirements related to the protection of the environment and minimizing personnel exposure to hazardous materials. Because of constrained budgets, the contractor shall implement trade-offs with other contract functions for the duration of the contract to ensure compliance with regulatory and statutory requirements. Government personnel shall be notified, in a timely manner, of such trade-offs and the impact of these trade-offs to contract requirements.

The contractor shall partner with KSC and the 45th Space Wing to maintain public safety and trust as well as the safety of the workforce. The contractor shall maintain safe and secure operating locations and be flexible and innovative in protecting and preserving physical and environmental assets. The contractor shall prepare for, and effectively respond to, emergency situations and contingencies. The contractor shall support real-time requirements 24 hours a day, 7 days a week.

The contractor shall assure superior customer satisfaction at all stages of work from requirements development through delivery. The contractor shall implement and sustain a customer-oriented work control and planning process that shall provide responsive base support and simultaneously support a multitude of customers having conflicting requirements and priorities.

Management Approach. The contractor shall develop, implement, and maintain a management approach to support NASA-KSC and the Air Force 45th Space Wing's goal to be the premier gateway to space. The contractor shall employ a highly innovative, entrepreneurial, and efficient management program that challenges the status-quo and worker culture in formulating and implementing high quality, timely, and cost-effective base support services. The contractor shall apply an integrated team approach that incorporates a centralized Program Management Office and a single set of consolidated and easily understandable policies and procedures for the J-BOSC program. The contractor shall: take a proactive approach to labor relations involving collective bargaining agreements that includes the formation of a consolidated Labor Management Council; "right-size" the workforce staffing profile; implement an incentive plan for the entire workforce that rewards employees for suggesting and developing ideas that result in quantifiable benefits; and manage the project through incorporation of quality concepts. The contractor shall comply with DRD 1.1-13, Report, Advance Notification of Workforce Reductions, when a workforce reduction is imminent.

The contractor shall optimize J-BOSC support services at the least possible cost within all performance parameters. The organization structure shall balance flexibility and accountability

to ensure responsiveness, product quality, and resource control. The workforce shall be empowered with the responsibility and authority to achieve performance goals.

Business Approach. The contractor shall establish a program which embodies sound financial management concepts that result in affordable costs while continuously improving customer support. The contractor must realize cost savings through improved project efficiency while reducing dependency on government-furnished property and services. The contractor shall team with KSC, the 45th Space Wing, and their customers to optimize resource management. The contractor shall develop a subcontract program that recruits and selects qualified subcontractors, maximizes the use of commercial services, and provides meaningful subcontracting or teaming opportunities to achieve the J-BOSC socio-economic procurement goals.

Resource Management. The contractor shall provide a contract resource management system, to include subcontracts, for the total contract work activity. The contractor resource management system shall provide timely and accurate visibility of contract manpower, cost, and schedule performance and the interrelationship among them. This includes data and supporting variance analyses as well as special exercises involving schedules, work flows, and budgets. Work shall be prioritized, managed, and controlled within program funding levels. Contractor data shall be current, accurate, and complete, and actual costs shall not exceed approved operating plans.

Applicable Work Load Indicators (WLIs) for each WBS are incorporated in attachment J-12 and reported in accordance with DRD 1.1-12, Report and Review, Workload Indicators, Work Backlogs and Deferred Work.

1.1 MANAGEMENT AND CONTROL

1.1.1 Mission Support

The contractor shall support all mission related events per this statement of work.

1.1.1.1 Launch Support. The contractor shall provide all services consistent with mission requirements for support of Space Transportation System (STS) and other vehicle launches. These services shall include planning for operations, maintenance, and logistics support in preparation for launches, operations and maintenance support during launch operations, and requirements following launches prescribed in the Shuttle Integrated Operations and Maintenance Instructions (IOMIs), and Air Force Program Directives. NASA's KPD 8630.3, KSC Shuttle Processing Flight Readiness Certification Review Plan, and ELV/EELV, 501-97 (Draft) Universal Documentation System, depict the standard mission support requirements in accordance with Base Support Policy.

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1.1.1.1.1 Launch Readiness Briefings. The contractor shall provide Launch Readiness Briefings for each major milestone of the Space Transportation System (STS) flow. The briefings for the Pad Flow Readiness Review and Launch Countdown Review will be comprehensive in nature, while the remaining briefings will be milestone specific and consist of updates to the comprehensive packages. Joint NASA/SGS Reviews that will be required for STS flow are:

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#	Event/Milestone
1	Pad Rollover & Flow Readiness (MAJOR)
2	A5214 – Rollout
3	S00024 – Propellant Load
4	S0017 – TCDT
5	S5009 – Ord. Installation
6	S0037 – Tanking Test
7	Launch Countdown/RTLS (MAJOR)

8 Landing - EOM

The contractor shall also facilitate at least one JBOSC Launch Readiness briefing for ELV and 45 SW launches inviting the government to attend. The contractor will provide the government with preliminary copies of the launch briefing package to review readiness status prior to the briefing (MOD 436).

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1.1.1.2 24-Hour Turn-Around. The contractor shall provide the necessary resources to support 24-hour turn-around time between launch configurations.

1.1.1.3 Liaison Duties. The contractor shall respond to customer needs 24 hours a day, 365 days a year. The contractor shall perform liaison duties between range users, customers, 45th Space Wing and KSC elements, contractors, and host agencies. Liaison duties include, but are not limited to, receiving support requests, coordinating activities such as work clearance request/excavation permits and utility outages, and passing work requirements to other contractors. Technical Exhibit 5.1-501 lists all the duties. The contractor shall provide a Cape Superintendent function to assist the Cape Commander's office with support activity.

1.1.1.3 Community Special Events. The contractor shall provide miscellaneous support for NASA-KSC, Air Force-CCAFS, PAFB special events, and community special events. This includes the External Relations Office and public affairs support.

1.1.2 Deleted

1.1.3 Flexibility

The contractor shall respond to changing service requirements, including work resulting in unexpected surges, and prioritize activities to best accomplish the intent of the contract in terms of mission support, Cape Canaveral Spaceport Management Office (CCSMO) initiatives, and customer service.

1.1.3.1 PAFB In-Scope Service Requirements. The contractor shall respond to service requirements contained within the general scope of this contract (not specifically identified) at PAFB, upon contracting officer direction, on a non-interference reimbursable basis. The contractor shall document work performed at PAFB under the scope of this paragraph and brief the government on such work on a monthly basis during the Work Management Process IPT. (Mod 306).

1.1.4 Work Classification and Control

The contractor shall properly classify and prioritize all work through the Work Control Center for day-to-day work requirements and through Engineering Services for facilities projects.

1.1.4.1 Schedules and Cost Estimates. The contractor shall provide schedules and cost estimates at the work order level that include cost element breakdowns as requested by the customer.

1.1.5 Work Management System

The contractor shall provide controlled access (network accessible), on-line, interactive automated management and work information system(s). The contractor shall provide authorized users with electronic access to this system and other on-line management information systems and databases. Management and work information systems shall be user friendly and provide required customer data as needed. Access includes the ability to read and download data, and construct and execute ad hoc queries and custom reports with current and historical data. Data shall be compatible with Microsoft software products or made available through a front-end user interface. Data shall be current, accurate, and complete. The

contractor shall develop and maintain user's guides, and provide training for user on how to access on-line Management Information Systems (MIS) and databases.

1.3.6 Reimbursement Policy

The contractor shall comply with the requirements of the 45th Space Wing Instruction 65-601, Reimbursement Policy when advising the CCSMO of direct costs for Range users that can be identified readily with the particular program support.

1.3.7 Negotiated Estimated Cost (NEC)

The contractor shall ensure complete reconciliation of the Operating Plan to the Annual NEC, and the actual cost to the NEC on the same six month schedule as the accounting calendar.

1.4 QUALITY AND MISSION ASSURANCE

The contractor shall establish, implement, and maintain a comprehensive quality and mission assurance (reliability, maintainability, and quality assurance) program that meets programmatic requirements and is effective in the identification and mitigation of risks. The contractor shall establish and maintain a configuration control process for all configured Facility, Systems and Equipment (F/S/E) that is within the contractor's control for design and operations and maintenance as defined in the Configuration Management Data System (CMDS). The configuration control process shall include means to identify, document and track planned modifications by others to F/S/E that is contractor controlled or will be assigned to the contractor for operation and maintenance. The contractor shall perform hazard and reliability analyses. Risks shall be identified in sufficient time to allow correction or acceptable risk mitigation without programmatic impact. (MOD 436)

1.4.1 Quality Approach/Continuous Improvement

The contractor shall establish and implement a quality management system for all services provided under this contract that complies with the guidance in ANSI/ASQC/ISO 9001 2000 and KNPR 8720.1. The contractor shall assess and benchmark internal processes to improve services and processes to optimize the delivery of services or products to the customer. The approach shall include a disciplined methodology to determine process effectiveness (time or cost savings), a quality improvement plan and implementation schedule for identified deficiencies, and documentation of lessons learned. (MOD 436)

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1.4.1.1 Product and Service Quality. The contractor shall identify the requirement for Government Source Inspection for procurements based on the criticality (1, 1R, and 1S) (reference NSTS 22206 for criticality definitions) of the procurement for ground support equipment, cryogenic/hypergolic propellant mission essential equipment, and other procurements identified by the government based on system interface and vendor performance history.

The contractor shall provide and maintain Acceptance Data Packages, test results, analysis reports, inspection records, and delivery logs in accordance with programmatic requirements for hardware, software, and commodity delivery, or transfer to the government. The contractor shall collect and compile data and information to demonstrate that the products and services delivered to the government are in compliance with programmatic requirements and specifications contained within those programmatic documents.

1.4.2 Systems Safety

The system safety approach shall include, but not be limited to, analytical methods (both quantitative and qualitative, as appropriate) to assess program ground support hardware and

software, and critical, mission essential, or highly hazardous F/S/E. The contractor shall develop and implement a process for the identification, mitigation, and control of hazards throughout the complete life cycle (design, development, manufacture, test, operations, maintenance, and disposal) of the F/S/E, materials, and processes under the control of the contractor before introducing them into the work environment. The contractor shall conduct an operations safety assessment on all high risk, first time use F/S/E, and submit the assessment to the government for review. The contractor shall monitor all design changes to critical F/S/E and update analysis as necessary to reflect the systems configuration.

All F/S/E of the following types that will be turned over to the contractor for O&M, that have either been temporarily turned over to the government for modification or repair (CofF) or are a part of new construction shall be verified/validated through a partnered process as operational to support required mission milestones:

- F/S/E that is deemed a "critical system" per NSTS 22206.
- Non-Critical/MEE F/S/E which have a Combined ORMSD/SAA Assessment (COSA) per Technical Exhibit 2.1.2-003
- Non-critical high/medium voltage F/S/E (for the purpose of ensuring that modifications to the non-critical portion of the system do not impact the critical portions of the system).

System verification/validation shall be accomplished through the following when the situation exists as specified below (excluded from this effort is any normal maintenance that does not alter the configuration):

- The partnered Institutional Design Certification Review (IDCR) process – This process will be used at project completion or at the end of major project phases when all required documentation is available.
- The partnered Interim Readiness Assessment (IRA) process – This process will be used in the interim stages of a project (i.e. construction, activation, turnover, etc.) to document mission support readiness

System verifications/validations (IRA/IDCR) shall include all modifications categorized as "first use" for affected milestones. The process is intended to document that the Appropriate Organizations (i.e. Engineering, Reliability, NASA Center Operations, NASA Safety, etc.) have reviewed the project and determined:

1. In the case of an IRA that either:

- The project content performed is a like-for-like replacement and the configuration documentation matches the modified system. As such, there is no additional risk to the system or the program OR
- The project content performed does impact configuration documentation but the updates are administrative in nature and can be performed after the planned mission OR
- The project content performed does impact configuration documentation and a risk assessment shall be performed to determine if the configuration adds any additional/presently unknown risk(s) to the system or program.
 - o The project open items deemed necessary for mission support shall be listed.

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2. In the case of an IDCR that either:

- The project content performed is a like-for-like replacement and the configuration documentation matches the modified system. As such, there is no additional risk to the system or the program and the finalized documentation will reflect this OR
- The project content performed does impact configuration documentation, but in an administrative nature. Updates will be made to the finalized documentation to reflect this OR
- The project content performed does impact configuration documentation and a risk assessment shall be performed to determine if the configuration adds any additional/presently unknown risk(s) to the system or program. The finalized documentation will be updated to reflect this.

The contractor shall prepare or update any required operations and maintenance documentation per the partnered processes. (reference SOW paragraph 2.1.2.4.1).

For JBOSC controlled projects, the system verification/validation and associated OMD required per the partnered processes shall be completed in sufficient time to allow correction or acceptable risk mitigation without programmatic impact. The verification/validation and OMD shall be completed through technical review per the partnered processes with the customer prior to its use in a critical operation or flow. For projects not under the control of the JBOSC contractor, system verification/validation and associated OMD required per the partnered processes will not be completed until the project contractor provides detailed drawings and equipment manufacturer specifications to the JBOSC Activation and Turnover group. System verification and OMD completion dates will be negotiated for each project with NASA-KSC safety and center operations.

In general, completion of documentation updates prior to STS launches will be the priority. Changes in the system configurations requiring interim conditions to be documented will not require complete documentation suite (SAA and OMRSD) updates. The contractor will coordinate with NASA-KSC safety and center operations for overall priorities to accomplish the launch mission and work to a published (and government coordinated) schedule. (MOD 436).

The contractor shall develop and implement a process to identify critical F/S/E which supports the institutional program per the requirements specified in NASA STD 8719.7. For new or modified F/S/E that the contractor builds, procures, or assumes operation or maintenance responsibility for, the contractor shall submit a project specific Hazard Analysis Data Sheet for the government's review. This requirement applies to F/S/E that is critical, mission essential, or has significant or unique hazards associated with it. The format of the Hazard Analysis Data Sheet shall be determined by the contractor and shall include, at a minimum, the type of analysis to be performed, an analysis schedule with established milestones, methods of analysis, depth of effort, identification of single failure points, and proposed mitigation of risks. The plan shall also address reviews and interfaces between the customer and the contractor. The plan shall be developed for the complete lifecycle of the F/S/E, and facility system safety activities shall take place concurrent with the normal facility acquisition process.

For the Shuttle Program, the contractor shall develop and implement a process to identify critical F/S/E which supports the Shuttle Program per the requirements specified in NSTS 22206 and submit a Hazard Analysis Data Sheet for the government's review. For F/S/E identified as Critical, a Failure Modes Effects Analysis/Critical Items List (FMEA/CIL) and a Hazard Analysis shall be performed and Hazard Report(s) generated per the requirements specified in NSTS

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22254. The contractor shall present all Critical Items (1, 1R, 1S, and 2) identified in the FMEA and Hazard Report for initial approval to the KSC Shuttle Program Risk Review Board (RRB), and final approval will be granted by the Kennedy Safety Review Panel (KSRP) and the Program Requirements Control Board (PRCB) per the requirements specified in NSTS 07700 Volume V, Information Management, and shall be maintained for all critical items per the requirements specified in NSTS 07700-10-MVP, Shuttle Master Verification Plan. The contractor shall obtain NASA Safety Engineering concurrence(s) on all analyses performed for the SSP. (MOD 436)

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1.4.2.1 Reliability and Maintainability. Shuttle System reliability shall be performed under the guidance of NSTS 5300.4 (1D-2). The contractor shall develop and implement a process which ensures the reliability and maintainability throughout the lifecycle of the F/S/E for which the contractor is responsible per the CMD5 listing. The process shall include reliability and maintainability assessments for baseline allocations, trend analysis of materials and parts in support of operational integrity, and participation in failure reviews. The assessments shall identify critical items and the operational impacts of associated failure modes. The contractor shall prepare and maintain the associated FMEA/CIL and shall integrate the results of the reliability assessments with the system safety function. The contractor's process shall be based on the fundamental reliability and maintainability concepts and principles described in NASA-STD-8729.1. (MOD 436)

1.4.3 GIDEP

The contractor shall participate in the Government/Industry Data Exchange Program (GIDEP) in accordance with the requirements of the GIDEP S0300-BT-PRO-010 and S0300BU-GYD-010. The contractor shall review all Failure Experience Data GIDEP ALERTS, GIDEP SAFE-ALERTS, GIDEP Agency Action Notices, and NASA Advisories to determine if they affect the contractor products produced for NASA. For GIDEP ALERTS, GIDEP SAFEALERTS, GIDEP Problem Advisories, GIDEP Agency Action Notices, and NASA Advisories that are determined to affect the program, the contractor shall take action to eliminate or mitigate any negative effect to an acceptable level. The contractor shall generate the appropriate failure experience data report(s) (GIDEP ALERT, GIDEP SAFE-ALERT, GIDEP Problem Advisory) in accordance with the requirements of GIDEP S0300-BT-PRO-010 and S0300BU-GYD-010, and KNPR 8715.3(T), KSC Safety Practices Procedural Requirements, whenever failed or nonconforming items, available to other buyers, are discovered during the course of the contact. (Mod 334)

2.0 PUBLIC WORKS

2.1 ENGINEERING SERVICES

The contractor shall provide engineering services to accomplish base operations and support services in support of facilities planning, real property management, facility programming, design services, specifications, engineering documentation, construction management, surveying, cost analysis, facility activation, and energy management at KSC, CCAFS, and the Florida Annexes. The contractor shall maintain Air Force and NASA facilities in a cost-effective manner that protects and preserves investments. The contractor shall provide engineering services to NASA in accordance with NASA-STD-8719.11 and NPG 8820.2E.

2.1.2.4 Joint Technical Documentation Control Center (JTDC). The contractor shall maintain the baseline of and prepare, maintain, and deliver to the J-BOSC Engineering Documentation Center (EDC) updated engineering documentation for assigned J-BOSC F/S/E to include (as appropriate to the task) engineering documentation for conceptual, preliminary, and detailed design for sustaining engineering tasks. The contractor shall provide configuration

controlled release and retrieval coding for J-BOSC engineering originals and associated engineering drawings, specifications, and documents. The contractor shall provide designated engineering records, document, and data management and control to include documentation closure against configured and critical F/S/E and related systems. The contractor shall prepare, maintain, release, and control documentation (such as OMs and/or PMIs, maintain or "record" drawings as shown in CMDS) required by the contractor to perform operations, maintenance, repair, and modification of all assigned structures, facilities, utilities, and equipment on KSC, CCAFS, and the Florida Annexes, excluding PAFB. The contractor shall perform engineering documentation support as required to produce the Facility Number Report (CMDS/CID).

2.1.2.4.1 Operations and Maintenance Documentation. The contractor shall modify and update the following Operations and Maintenance Documentation (OMD), which includes drawings, instructions, specifications, System Assurance Analyses/System Criticality Analyses (SAAs/SCAs) and other Risk/Hazard Analysis Packages, SPAs, PV/S and Department of Transportation (DOT) compliance reports, OMRSDs, OMs, and PMIs as directed by the applicable J-BOSC Configuration Control Board (CCB). At a minimum, all NASA critical F/S/E shall require drawings, SAAs/SCAs, SPAs, OMRSDs, OMs, and PMIs. For non-critical F/S/E where OMD may add value to effective system maintenance or reliability, a Combined OMRSD SAA Assessment (COSA) will be generated. The contractor and government shall partner such cases. (Reference Technical Exhibit 2.1.2-003, (MOD 436).

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The delivery of SAA, SCA, OMRSD documents shall be consistent with Section 1.4.2 "System Safety". The delivery of OMI, PMI and SPA documents shall be consistent with section 2.2.

As-built drawings for NASA maintained drawings, provided by the government or other contractors, shall be processed and released to EDC or logged for document maintenance upon final acceptance of turnover and subsequent receipt of accurate as-builts, and turnover documentation per the following schedule, or as directed by the applicable J-BOSC CCB:

- 95% within 60 days for government critical systems--remainder within 90 days;
- 75% within 90 days for government configured and mission essential systems--remainder within 120 days; and,
- No more than 10 Engineering Orders (EOs) per maintained document, excluding pending EO (not yet implemented) and EOs for Relay Settings (MOD 436)

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For AF Configured drawings, existing drawings are accepted as "Best Available Data" and will be as-built as projects affect the drawings, and only to the extent the project affects or verifies the configuration. Reference Technical Exhibit 2.1.3-001 for the anticipated annual project value of NASA-KSC Construction of Facilities (CofF) projects. (MOD 436)

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2.1.2.4.2 Critical/Configured Systems Documentation. The contractor shall provide critical/configured systems baseline identification and change control; coordinate and maintain contractor interface agreements (memoranda of understanding); Configuration Management Data System (CMDS) technical data administration and maintenance; coordination and maintenance of CMDS memoranda of understanding between contractor and others as needed; maintenance of the CMDS configuration identification module; and provision of required CMDS release and retrieval coding.

The contractor shall utilize consistent, unambiguous data classification and maintenance codes to ensure that classifications and criticality status for all F/S/E and associated OMD are clearly identified. Classification codes shall include Critical, Non-Critical, Configured, Mission Essential Equipment, and Maintained items. (MOD 436)

2.1.2.4.3 Data Management. The contractor shall provide data management for CMDS derived web-based F/S/E O/M/E/U Matrix in accordance with DRD 2.2-01, Report, Facilities, Systems, and Equipment Operations/Maintenance/Engineering/User Matrix.

2.1.3 Construction Engineering

The contractor shall perform construction management, construction services, field surveillance and inspection, construction cost engineering, land surveying, facility activation and turnover support, and associated planning, scheduling, and administrative support for those construction projects implemented by the contractor or implemented by others and assigned to the contractor for construction engineering support.

The contractor shall provide construction engineering services beginning with constructability reviews at the 90% design phase. Support shall continue through the construction, beneficial occupancy, activation/turnover, and warranty program phases.

2.1.3.1 Construction Management. The contractor shall provide project and construction management support for all facility projects assigned to the contractor for design, construction management, and/or implementation. The contractor shall implement a construction management approach that provides high-quality construction performance and facilities that meet functional requirements on schedule and within approved funds. The contractor shall ensure that all bid packages contain complete and detailed documentation that fully describes each facility configuration, performance requirement and the intent for the facility construction work, including environmental permitting and construction. The contractor shall track, analyze and report project status, scope, schedule, and cost. The contractor shall address these items monthly and report on variances from agreed upon cost and schedule.

2.1.3.2 Construction Services. The contractor shall provide field surveillance and associated inspection services to ensure successful implementation of facility projects per Technical Exhibit 2.1.3-001. The contractor shall provide inspection services, while focusing on safe and environmentally sensitive execution of facility projects. The contractor shall perform daily site visits and witness specified on-site acceptance testing and mandatory inspection points. The contractor shall document non-conformance with drawing, specifications, contract provisions, and safety regulations. The contractor shall prepare and track punch list items to completion. The contractor shall coordinate shop support for outages, system testing, and utility locates.

The contractor shall provide environmental support to NASA Construction of Facilities (CoF) projects. The contractor shall provide environmental consulting expertise and coordination throughout the CoF process. The contractor shall provide consultant services at the Project concept, NASA Program Operating Plan, Preliminary Engineering Report, Engineering Design and Project Construction phases. The contractor shall provide input to the identification of potential environmental compliance requirements and documentation of requirements necessary to ensure that CoF environmental requirements are adequately scoped. The contractor shall participate at pre-work meetings to ensure that environmental requirements are communicated to CoF contractors. The contractor shall supplement inputs from other environmental subject matter experts from NASA, consulting engineers, and various J-BOSC organizations to support the planning and design engineering phases of CoF projects. This support will also include project field implementation consultation for environmental requirements such as waste management, stormwater pollution prevention plans, etc. and the monitoring of field compliance with KSC/regulatory requirements and best practices. (Mod 388)

The contractor shall provide tracking and distribution support for construction contractor shop drawings, material submittals, and other information provided for government review and approval. The contractor shall maintain submittal tracking logs to track the review and approval process. The contractor shall maintain submittal files as official Government records. The

contractor shall maintain tracking logs for construction contract change orders and supplemental agreements. The contractor shall track estimated, proposed, evaluated, and negotiated costs.

The contractor shall have construction inspectors on the job site when needed to support significant construction operations, critical inspection points, acceptance tests, and final inspections.

2.1.3.3 Construction Cost Engineering. The contractor shall provide facilities, systems, and equipment cost estimating and cost engineering services to support construction activities. The contractor shall provide construction cost engineering and scheduling support for assigned projects. The contractor shall review, analyze, and provide recommendations regarding contractor progress schedules, pay requests, cost proposals, and claims.

The contractor shall prepare complete findings of facts, including impact assessments for claims and proposed change orders with supporting cost estimate, for use by the Government on those construction contracts under surveillance. Cost analysis and estimating construction support shall be as requested for projects under surveillance commencing no later than project notice to proceed.

The contractor shall review and analyze construction activities in accordance with the following schedule or by the negotiated due date 90% of the time:

- Construction schedule – 3 days
- Pay request – 3 days
- Cost proposals – 10 days
- Claims – 30 days

The contractor shall conduct independent assessments and cost estimation of selected facility and Construction of Facility (CoF) projects, including quality control of project cost estimates. The contractor shall maintain the capability to perform life cycle cost analyses of facility and CoF projects. The contractor shall develop and maintain a project cost element database, including monthly cost indices, for facility and CoF projects. The contractor shall develop reports that analyze project bids and compare the bids against official government estimates.

2.1.3.4 Land Surveying. The contractor shall provide survey support for verification of requested in-place construction to required elevations and grades for projects assigned to the contractor for construction management services and minor data collection support for customer use. Geographic Information System (GIS) standards shall be utilized to support real estate data for KSC, CCAFS, and the Florida Annexes for the GIS maintenance function.

2.1.3.5 Facility Activation and Turnover. The contractor shall implement a facility activation plan that ensures that new or modified facilities, systems and equipment procured by the government are coordinated, reviewed, and accepted by J-BOSC for engineering, operations, and maintenance responsibility.

In support of facility activation, the contractor shall prepare Interim and Final O&M turnover packages for assigned projects. The contractor shall participate in projects requirement reviews, design reviews, project status meetings, systems acceptance testing, and final inspections. The contractor shall prepare real property turnover packages for government signature and distribute to appropriate KSC/CCAFS O&M and Real Property Officers. The contractor shall ensure that all OMD documentation has been properly processed and distributed to responsible O&M support organizations.

Projects implemented by others require that turnover packages be provided to J-BOSC for integration of F/S/E assigned to the contractor for O&M responsibilities.

The contractor shall prepare KSC 21-136 forms and submit interim O&M turnover documentation to allow start of breakdown and code required maintenance within 2 weeks of customer's request after substantial completion. (MOD 436)

The contractor shall prepare and submit final turnover documentation within 30 working days after completion and closure of all punch list items and complete all OMD as required in sections 1.4, 2.1 and 2.2. (MOD 436)

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2.1.4 Energy and Water Conservation

2.1.4.1 Energy Management Program. The contractor shall provide program management support for the overall KSC and CCAFS Energy Management Program. The contractor shall conduct an Energy Management Program that plans, implements, and measures the status of conservation initiatives for J-BOSC responsible F/S/E in accordance with the O/M/E/U Matrix. The contractor shall coordinate an effective utilities conservation program that includes hot and chilled water, natural gas, propane, fuel oils, and electric power. The contractor shall support the USAF Energy Performance Contractor (ESPC) for CCAFS with respect to the USAF Energy Savings Performance Contract scope of work.

The contractor shall perform Facility Energy Audits for all NASA J-BOSC facilities which meet the intent of Executive Order (EO) 13123 and NPR 8570.1, Chapter 4. (Note: Due to a lack of government funds, the contractor will not be required to comply with EO 13123 and NPR 8570.1, Chapter 4 energy audit requirements until such time as funds become available).

The contractor shall actively support the KSC and CCAFS energy program and shall conduct an internal program for J-BOSC. The contractor shall provide the following support to the energy management and conservation program:

- Support the coordination of the contract-wide program through information, collection and analysis;
- Identify and assist in implementing opportunities for applying cost-effective alternative fuel technologies and energy reduction projects;
- Identify and assist in implementing opportunities for cost-effective purchasing and application of utilities; and
- Utilize Type 3I energy saving projects and energy efficient designs for future projects

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2.1.4.2 Energy Conservation. The contractor shall reduce energy consumption as defined in Performance Standard 2.1.4-01 (Energy Use Index in J-BOSC/NASA Facilities). The performance standard shall consist of two measures and shall be posted quarterly on the contractor's energy web page. One measure shall be calculated from standard EUI calculations and is not a contract requirement goal. The second measure shall be calculated without the Orsino Area miscellaneous category and is the contract requirement goal.

2.1.4.3 Reports and Plans. The contractor shall provide energy management program status to the government and shall collect, analyze, validate, and prepare reports and plans as listed in Technical Exhibit 2.1.4-01 – Energy Management Office Periodic Report Requirements. Reference Air Force Energy Program Procedural Memorandum (AF EPPM) 96-3 for Defense Utility Energy Reporting System (DUERS) for Air Force Periodical Report.

2.1.4.4 Water Management Program. The contractor shall provide a water management and conservation program in accordance with EO 13123 for KSC and CCAFS. The contractor shall

conduct a Water Program that plans, implements, and measures the status of conservation initiatives for J-BOSC responsible F/S/E.

2.2 INFRASTRUCTURE

The contractor shall provide operations, maintenance, engineering, and custodial services for the facilities, systems, equipment, grounds, and utilities at KSC, CCAFS, and the Florida Annexes to accomplish safe, effective, and environmentally compliant base operations and support services. Assigned F/S/E are designated by the contractor's O/M/E/U Matrix in accordance with DRD 2.2-01, Report, Facilities, Systems, and Equipment Operations/Maintenance/Engineering/User Matrix.

The contractor shall continuously maintain an infrastructure maintenance program based on Reliability Centered Maintenance (RCM) and Integrated Logistics Support (ILS). The contractor shall continuously maintain the inventory and systems analysis process, and maintain optimal baselines for each system and subsystem.

The contractor shall develop and provide a Five-Year Facility Maintenance and Facility Project Plan establishing long-term system sustaining projects and planning in accordance with DRD 2.2-04, Five Year Facility Maintenance and Facility Project Plans.

The contractor shall maintain an electronic F/S/E O/M/E/U Matrix in accordance with DRD 2.2-01, Report, Facilities, Systems, and Equipment Operations/Maintenance/Engineering/User Matrix.

2.2.1 Facilities/Systems/Equipment (F/S/E)

The contractor shall provide a comprehensive integrated management information system for receiving, validating, scheduling, controlling, subcontracting, project management, cost management, and tracking all work associated with the contract. The work control function shall identify all tasks, costs, durations and resources required. The contractor shall identify and implement tasks and work necessary to ensure that all facilities, structures, systems, and equipment for which O&M responsibility is assigned shall continue to function at their original capacity and at their design efficiency. Work to be identified includes preventive maintenance, corrective maintenance, and overhaul or replacement to obtain best value.

The contractor shall provide and maintain an on-line, interactive automated work control system that provides current, accurate visibility of all work. The system shall provide sufficient scheduling and reporting capability to communicate to customers work milestones (programming, design, procurement/contracting, pre-bid, bid opening, award, notice to proceed, completion dates, revised completion dates, construction status, utility locates) and cost (Rough Order of Magnitude (ROM), Final Design Estimate (FDE), original contract, current contract, pending change orders, and final contract) to completion, in accordance with DRD 2.2-08, Type 3C Project and Work Status Report.

The contractor shall provide the government with access to the man-hours expended on government submitted projects. Information input into the system shall include the facility number, system description, equipment number, utility description, and a complete description of work to be done. Information shall be sufficient enough to allow government customers to enter the system and perform searches for any F/S/E. The contractor shall provide the government with F/S/E reports in accordance with DRDs 2.2-04, Five Year Facility Maintenance and Facility Project Plans, 2.2-05, Backlog of Maintenance and Repair (BMAR), 2.2-06, Facility Maintenance Execution Summary, and 2.2-07, Facility and System Availability.

The contractor shall ensure the reliability of assigned facilities, systems, and equipment. Maintenance shall be performed to prevent deterioration to the point at which major refurbishing

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is required prior to the end of the designed life cycle to restore the system, facility, or equipment. Reliability Centered Maintenance (RCM) principles shall be employed in accordance with NPR 8831.2. For critical, mission essential, or life safety F/S/E, the contractor shall perform 100% of scheduled preventive/predictive maintenance (PM) tasks including all applicable maintenance/validation steps contained therein. Any PM not performed or completed in its entirety for critical, mission essential, or life safety F/S/E shall be briefed or reported to the responsible government functional subject matter expert (e.g. TA, CES) and to the contracting officer's technical representative (COTR) on a weekly basis. Maintenance analysis decisions requiring changes to the levels of preventive/predictive maintenance, shall be documented on the Maintenance Action Request (MAR) form, FAM-F-0006. Reductions in PM requirements or frequency for any F/S/E (i.e. critical, mission essential, life safety, or other) shall require pre-approval of the responsible government functional subject matter expert. (MOD 436)

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Warranty Maintenance. The contractor shall execute warranty provisions and maintain warranty or guarantee records for all equipment and material in the facilities support area during the time they are under warranty or guarantee; investigate the failure of any covered equipment or material and report findings to the appropriate customer; and take no action that would void a warranty without prior approval from the government representative. The contractor shall be responsible for obtaining warranty documents on all warranted equipment and materials installed by the contractor. Warranty documents shall be provided to the contractor upon installation of new equipment by others.

2.2.1.1 Operations, Maintenance, and Engineering. The contractor shall provide operations, maintenance, and engineering for all F/S/E, in accordance with the O/M/E/U Matrix, DRD 2.2-01, Report, Facilities, Systems, and Equipment Operations/Maintenance/Engineering/User Matrix (Technical Exhibit 2.2—017) including associated F/S/E firmware and software. When the contractor, the government, or both have identified F/S/E omissions or deletions, the O/M/E/U Matrix shall be updated by direction from the contracting officer. However, during the update or turnover process, the contractor shall continue to provide operations, maintenance, and engineering services for the pending facilities, systems, subsystems, structures or other items required for function. (Mod 286)

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For the implementation of maintenance, the contractor shall, at a minimum, have appropriate OMI, PMI and SPAs for all NASA Mission Essential and or Critical Systems. Upon final acceptance of turnover and subsequent receipt of accurate as-builts and vendor documentation, the above maintenance OMDs shall be updated per the following schedule, or as directed by the applicable J-BOSC CCB:

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- 95% within 60 days for government critical systems--remainder within 90 days;
- 75% within 90 days for government configured and mission essential systems-- remainder within 120 days; and
- No more than 10 Engineering Orders (EOs) per maintained document excluding pending EO (not yet implemented) and EOs for Relay Settings.

Reference Technical Exhibit 2.1.3-001 for the anticipated annual project value of KSC Construction of Facilities (CofF) projects.

The contractor shall provide problem reporting for all anomalies and off-nominal configuration changes for critical and/or mission essential F/S/E. Problem documentation shall include anomaly description and analysis, critical and/or mission essential F/S/E impacts, operational constraints, troubleshooting steps and findings, and corrective actions performed leading to closure of the anomaly. Problem documentation shall be readily accessible to responsible government functional subject matter experts. All open problem reports shall be briefed to

government management on a regular basis. The formats and frequencies of the reports shall be partnered with the Government. (MOD 436)

The contractor shall perform maintenance and operations of the interconnection facilities contained in the compliance document "Interconnection Agreement Between Florida Power & Light Company and the National Aeronautics and Space Administration." (Mod 299)

2.2.1.2 Deleted.

2.2.1.3 Work Orders. (Mod 244) The contractor shall initiate and/or respond to construction, modification, maintenance and repair work orders as defined in Attachment J-9 and in accordance with the cost Ceiling established in the table below.

	GFY	Internal (Type 3I)	Customer (Type 3C)
Air Force	2004 - 2008	AFI32-1032	AFI32-1032
NASA	2004 - 2005	\$200,000	\$5,000,000
NASA	2006 - 2008	\$200,000	*\$500,000

Table 2.2.1.3-1 Work Order Cost Ceiling

All Air Force type 3 projects (3I and 3C) require Air Force coordination/approval prior to implementation. All projects greater than \$1,500,000 require pre-approval by both the COTR and the Government Contracting Officer. Annual Type 3C Work Order Most Probable Cost Adjustments are defined in Technical Exhibit 2.2.1.3-001. All work requirements shall be documented in accordance with AFI 32-1032 or NPG 8820.2 as appropriate.

*This ceiling may be increased by mutual agreement of the parties to an amount not to exceed \$5M in any fiscal year. (Mod 244)

The contractor shall perform project management, construction management, and subcontracting management, and shall provide Intranet based reporting for government-selected projects and other selected work to include project scope, status, budget, schedule, and accountability in accordance with DRD 2.2-08, Type 3C Project and Work Status Report.

Infrastructure-related work shall be given a numerical priority based on safety, environmental and mission criticality, and/or customer requirements. The contractor shall receive, document, schedule, and control infrastructure work requirements. The contractor's Work Control System shall assign a discrete Work Order Number (WON) for all maintenance, repair, construction and support services.

Every 6 months the contractor Work Control shall notify customers of current open Type 3C work orders and ask customers to revalidate the need for the work. If the customer indicates the work is no longer required, the contractor Work Control shall close those work orders.

Every 3 months the contractor Work Control shall notify the contractor Crafts/Shop management of current open continuous, repetitive or collection (Type 4) work orders to determine if the work is completed. If the work is certified as completed by the contractor Crafts/Shop Management, then the contractor Work Control shall close those work orders.

The contractor shall submit a Type 3C and a Type 3I Work Order Status Report in accordance with DRD 2.2-09, Type 3C Work Order Status Report and DRD 2.2-10, Type 3I Work Order Status Report.

2.2.1.4 Maintenance Support. The contractor shall provide engineering services and studies to ensure the economical maintenance of the CCAFS and KSC infrastructure to support space lift and launch base support missions. The contractor shall provide life-cycle sustaining engineering for F/S/E. Contractor life-cycle sustaining engineering shall provide continuing engineering support to: maintain a design that fulfills its original design intent and is compatible with the operational use; upgrade operational performance capabilities through product improvement redesign for more cost-effective operations; incorporate approved changes in requirements as they evolve; and provide other engineering support herein.

The contractor shall perform National Fire Protection Association (NFPA) code required maintenance on all fire alarms, fire suppression, emergency generator, emergency power, emergency lighting, and other applicable assigned F/S/E. The contractor shall perform routine and recurring maintenance on all assigned F/S/E as prescribed by maintenance analysis to ensure safe and efficient operations. The contractor shall perform maintenance on a non-interference basis with facility operations. Where this is not possible, outage requests for planned maintenance shall be coordinated with facility operations a minimum of 14 days in advance.

2.2.1.5 Deleted (MOD 436)

2.2.1.6 Deleted.

2.2.1.7 Road Shoulder Maintenance and Clear Drainage Systems. The contractor shall maintain road shoulders free from ruts, washouts, and dead or missing grass. The contractor shall clear drainage systems, including culverts, and control vegetation along access roads to allow waters to flow freely to natural basins or collecting points. Roads, road shoulders, and drainage systems shown in Technical Exhibit 2.2.1.7-01 and per the schedule defined in the 5-Year Drainage System Maintenance Plan.

2.2.1.8 Preparation for Launch, Test and Training and Search (Xenon) Lights/Generator Support. The contractor shall provide facilities, equipment, and utilities support during pre-launch and landing for all launches according to shuttle integrated operations and maintenance instructions and Air Force Program Directives. NASA's KPD 8630.3, KSC Shuttle Processing Flight Readiness/Certification Review Plan, and ELV/EELV, 501-97 Universal Documentation System, depict the standard mission support requirements. (Mod 257)

The contractor shall prepare KSC Pad A&B slidewire bunker areas for launch, test, or training exercises as listed in Technical Exhibit 2.2.1.8, Pad A&B Slide Wire Area Support Standards. Preparation includes: grading area between sidewalks, removal of accumulations of eroded sand from perimeter of areas within the bunkers, and removal of large shells, rocks, and debris, adding clean builders sand as necessary, and removal of sand deposited on bunker sidewalks. The contractor shall inspect bunker dirt cover for proper depth and erosion control. If necessary, the contractor shall replenish dirt and seed properly. Sand fill depth at slide wire landing shall be inspected and sand replenished, if necessary, in accordance to the established safety guidelines.

The contractor shall maintain and operate search lights and associated generators in support of all government launches. This support includes four remote Trans Atlantic Launch Sites (TAL-sites). These sites include Moron, Spain, Zaragoza, Spain, Ben Guerir, Morocco and Istres, France. The Contractor is required to provide manning of three of these TAL-sites per shuttle launch. Existing inventory of search lights (xenon) is 126 units. The existing inventory of

generators associated with the search lights is 76 units. In addition to this inventory, the contractor shall be responsible for providing parts for 44 search lights located in White Sands and Edwards AFB. (Mod 257)

2.2.1.9 Deleted.

2.2.1.10 Office Moves and Alterations. The contractor shall perform moves and office alterations, including the relocation of personnel and office materials, partitions, and systems furniture, and perform the necessary design layout. The Launch Operations and Support Contract (LO&SC), Space Flight Operations Contract (SFOC), KSC Visitor Complex Concessionaire, and Checkout and Payload Processing Services Contract (CAPPS) are responsible for moves and non-floor-to-ceiling alterations within their assigned areas.

Services extend to minor modifications as necessary. In all facilities, the contractor shall design and implement all necessary convenience outlets, lighting, fire detection and alarm, and HVAC systems to accommodate the move. The contractor shall conduct Safety Design Reviews of Move/Mod Packages.

3.2.4.1 Propellant Operations, Maintenance and Engineering. The work to be performed by the contractor includes the following subtasks:

- Coordinating, identifying, and reporting deficiencies, and inspecting supplier deliveries for government-procured, direct-delivery propellants; the contractor shall document all anomalies, coordinate with appropriate organizations, determine and implement corrective action, and follow up on the implementation process;
- Providing propellant billing validations for government-procured propellants; the contractor shall process all acquisition, receipt, and inventory documents;
- Developing 3-year propellant forecasts to support government propellant procurement planning; commodity projections shall be derived from usage estimates obtained from NASA/45th Space Wing and other Spaceport entities;
- Providing technical assistance (engineering, safety, environmental, and operations and maintenance) in propellant deliveries to systems operated and maintained by others;
- Operating customer servicing equipment to support customer servicing/de-servicing operations (such as Orbiter refrigerant 21 servicing);
- Providing thermal conditioning of Delta hypergolic propellant and Nitrogen Oxide (NO) enrichment of Nitrogen Tetroxide;
- Inspecting and servicing non-Spaceport equipment staged at KSC and CCAFS, inspecting and certifying (pre- and post-shipping) equipment loaned off base, draining propellant systems, weighing cargo tanks, and storing and moving customer- owned hypergolic equipment;
- Supplying propellant handling equipment to accommodate facility on-site storage, anomaly and malfunction testing, and off-center hardware re-certification and overhaul;
- Documenting and reporting to the government on all Department of Transportation (DOT) compliance waiver/deviation issues associated with propellant fleet operation before propellant equipment is used for propellant handling;
- Maintaining the fluids handbook to provide current information on the management of various types of propellants. The handbook can be web-based and shall be updated at a minimum of every 3 years.
- Maintaining the existing fluids sampling plan and analyzing trends to ensure the integrity of the plan and the sampling frequency; and

- Preparing Propellant Cost Estimate Reports and Cost Tracking Reports in accordance with DRD 3.2.4-01, Reports, Propellant Analysis.

The contractor shall provide services to Spaceport customers including operating, maintaining, and constructing assigned fixed and portable propellant facilities, systems, and utilities. The contractor shall establish and maintain an ongoing maintenance, refurbishment, and overhaul program that ensures the safety and operational readiness of propellant equipment and facilities. The contractor shall ensure that related certifications and exemptions are maintained.

The contractor shall provide propellant logistics services (such as deliveries and processing) to customers in accordance with customers' quality, quantity, and schedule requirements and contained within conveyances appropriate for the intended use.

The contractor shall provide operational statements, progress reviews, and periodic mission support reviews (KSC/CCAFS launches) to NASA. The contractor shall provide pre-launch propellant readiness status, GSPN/anomaly post-launch debriefing, and post-launch summary for Shuttle Operations.

The contractor shall provide support at Port Canaveral. Port activity includes pumping bilges of ships and missile tubes, providing compressed air to submarines.

The contractor shall support 45th Space Wing downrange activity including delivery and pick up of compressed gas cylinders to the Port Canaveral Wharf for shipment downrange by others.

The contractor shall provide Spaceport vacuum pump overhaul and vacuum system servicing support. The contractor shall maintain the PAFB flight line LOX carts.

In addition to KSC Shuttle Landing Facility (SLF) support, the contractor shall provide refueling at the Occupational Health Helipad and contingency refueling at the CCAFS Skid Strip to support NASA aircraft and helicopter requirements.

The contractor shall support commercial customers as directed by the government and as in accordance with the Air Force Base Support Policy (BSP).

The contractor shall provide operations and maintenance support of propellant systems and equipment as required in the OM/E/U Matrix. For critical and mission essential propellants and life support equipment, the contractor shall perform 100% of scheduled preventive/predictive maintenance (PM) tasks including all applicable maintenance/validation steps contained therein. Any PM not performed or completed in its entirety for critical or mission essential systems and equipment shall be briefed or reported to the responsible government functional subject matter expert (e.g. TA, CES) and to the contracting officer's technical representative (COTR) on a weekly basis. Reductions in PM requirements or frequency shall require pre-approval of the responsible government functional subject matter expert.

The contractor shall provide problem reporting for all anomalies and off-nominal configuration changes for critical and mission essential propellants and life support systems and equipment. Problem documentation shall include anomaly description and findings, critical and/or mission essential impacts, operational constraints, troubleshooting steps and findings, and corrective actions performed leading to closure of the anomaly. Problem documentation shall be readily accessible to responsible government functional subject matter experts. All open problem reports shall be briefed to the Government on a regular basis. The formats and frequencies of the reports shall be partnered with the Government. (MOD 436).

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The contractor shall:

- Maintain records/documentation files including specifications, drawings, standards, manuals, and guidelines for all systems and equipment;

- Maintain a system to record total inventory, provide equipment utilization assessment, document inventory problems, and predict required inventory levels;
- Conduct a requirements assessment for each specific launch-related mission or project to include contingency planning and post-launch operational assessment, and conduct System Level Reviews for each Space Shuttle mission;
- Maintain and implement support and contingency plans; and
- Provide certification for propellant packaging to ensure compliance with DOT and shipping requirements when equipment is shipped off government installations.
- Monitor the condition of propellant equipment on loan to other agencies.

3.2.4.2 Deleted.

3.2.4.3 Deleted.

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APPENDIX C – PERFORMANCE STANDARDS

Number	Performance Description
1.1-1	No mission milestone schedule impact due to action or inaction of the contractor shall occur.
1.2-1	Vehicle Accident Rate will not exceed the prior 4 award fee period averages. Rate will be updated at the beginning of the fiscal year. (CCR 06-31, Mod 398)
1.3-1	Reserved
1.3-2	Monthly accrual estimates shall be 95% accurate to actual reported costs for the same period.
1.3-3	Reserved
1.3-4	Reserved
1.3-5	Minimize and fully reconcile the gap between Negotiated Estimated Cost (NEC) and actual cost per period and minimize and fully reconcile the gap between NEC and Operating Plan.
2.1.1-1	Reserved
2.1.1-2	Reserved
2.1.1-3	Reserved
2.1.1-4	97% of siting request packages shall be prepared within ten working days of receipt.
2.1.2-1	99% of the changes and additions to the SPECSINTACT NASA Mastertext shall be completed correctly the first time.
2.1.2-2	75% of all technical support questions shall be resolved within eight working hours. The remaining 25% of technical support calls shall be resolved within 24 working hours.

Number	Performance Description
2.1.2-3	The services provided (EDC) for critical and mission-essential documentation shall be available to the user 100% of the time when essential to the user's activities as determined by the user.
2.1.2-4	(EDC) 99% of requests shall be completed as negotiated between SGS and the requester, but in no case shall impact major program schedule milestones.
2.1.2-5	90% of EDC master file shall be kept current, with no products later than 30 calendar days.
2.1.3-1	Engineering design cost estimates shall be accurate to 90% of actual acquisition costs. Deleted, in original request (Mod 232)
2.1.2-6	Engineering design completion rate shall be 90% of program schedule. (Mod 232)
2.1.3-3	Reserved
2.1.3-4	Reserved
3.1.3-5	Reserved
2.1.4-1	Energy reduction goals for all NASA J-BOSC Facilities shall be in accordance with the Energy Use Index (EUI in BTU/sf/yr) of 1.5% annual reduction for Standard Facilities and 0.67% annual reduction for Energy Intensive Facilities. (Mod 137) Metric on Engineering Website
2.2.1-1	Critical and/or Mission Essential F/S/E/U shall be ready to the user 100% of the time from Call to Station until the mission milestone is completed or cancelled. (MOD 436)
2.2.1-2	Services and functions provided by all other F/S/E/U shall be ready to the user 98% of the time.
2.2.1-3	No more than 20 false fire alarms per month or 13 facility evacuations shall occur per month resulting from O/M/E attributed action/inaction of the contractor.
2.2.1-4	100% of Type 2 emergency work orders shall be mitigated within 24 hours, 99% completed within 10 calendar days, and 100% completed within 60 calendar days of the original call.
2.2.1-5	100% of Type 2 urgent work orders shall be mitigated within 72 hours, 98% completed within 20 calendar days, and 100% completed within 60 calendar days of the original call.

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Number	Performance Description
2.2.1-6	90% of Type 2 routine work orders shall be completed within 30 calendar days, 98% completed within 60 calendar days, and 100% completed within 180 calendar days of the original call. SGS will expend 74% of the Air Force Type 2C routine work order historical cost average each month. When that limit is reached, SGS will decline further requests for the remainder of that month and advise the customers that: a) SGS has reached the limit of the Wing's monthly budget; and b) the request may be resubmitted in a subsequent month. (Mod 286)
2.2.1-7	90% of Type 3C work orders shall be completed on or before the original negotiated completion date unless the customer initiates a change to the work. (Mod 232)
2.2.1-8	85% completion of schedule preventive predictive maintenance for F/S/E (Mod 219) (Mod 286), (MOD 436)
2.2.1-9	100% completion of scheduled preventive/predictive maintenance for critical and/or mission essential F/S/E as defined in CMDS
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2.2.1-12	90% of requested Type 3C Work Order ROM estimates shall be within 25% of the Final Design Estimates (FDE). (Mod 232)
2.2.1-13	100% Completions of all NFPA code-required and life safety maintenance. (MOD 436)
2.2.1-15	100% of in-work Air Force Type 3C Work Orders shall be resubmitted to the Air Force for continued work approval prior to expending funds beyond the approved FDE level. (Mod 232)
2.2.1-16	90% of Type 3C Work Orders shall have actual total completion costs less than or equal to the original final design cost estimate (FDE) plus the additional addendum(s) design cost estimate. (Mod 232), (MOD 436)

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Number	Performance Description
2.2.1-17	No utility damage shall result from contractor failure to properly locate or mark identifiable utility systems.
2.2.2-1	No dumpsters shall be visibly overflowing
2.2.2.2	Reserved
2.2.3-1	Reserved
2.2.3-2	Reserved
2.2.3-3	Reserved
2.2.4-1	Provide response for spills/glass breakage/overflows, and blood-borne pathogen cleaning, within 20 minutes of notification for assistance during normal work hours and within two hours at other times.
2.2.4-2	Areas should be clear of trash and debris, and be clean in appearance, with no more than eight validated customer complaints per month.
3.1.1-1	<p>Fire and ambulance services will respond to all emergency calls within their designated zones within their allotted time 90% of the time. Per Mod 159</p> <ul style="list-style-type: none"> √ Fire Rescue will respond to all emergency calls in the Green Zone within 6 minutes or less. √ Fire Rescue will respond to all emergency calls in the Yellow Zone within 10 minutes or less. √ Fire Rescue will respond to all emergency calls in the Blue Zone within 12 minutes or less. √ Fire Rescue will respond to all emergency calls in the Red Zone in greater than 12 minutes. √ ALS Ambulance will respond to all emergency medical calls in the Green Zone within 6 minutes or less. √ ALS Ambulance will respond to all emergency medical calls in the Yellow Zone within 10 minutes or less. √ ALS Ambulance will respond to all emergency medical calls in the Blue Zone within 12 minutes or less. √ ALS Ambulance will respond to all emergency medical calls in the Red Zone in greater than 12 minutes.
3.1.2-1	Reserved
3.1.2-2	Reserved

Number	Performance Description
3.1.2-3	Maintain accurate security programming guidance, plans, and directives maintained by updating items within 90 calendar days of the event that caused the item to become outdated
3.1.2-4	Reserved
3.1.3-1	Command and control Emergency Operations Center (EOC) shall be activated within 30 minutes of notification of an emergency or emergency exercise during normal duty hours, otherwise within two hours.
3.1.3-2	Reserved
3.2.1-1	90% of supplies, materials, transportation, and support services provided to meet the customer's negotiated need date.
3.2.1.2	Reserved
3.2.1-3	NEMS Discrepancy Report error input rate is not to exceed 10%.
3.2.1.4	90% priority shipments requiring next day delivery service, received before 2:00 p.m. will be packaged & shipped the same day (excluding shipments containing hazardous materials, international shipments, or items that require extensive packaging).
3.2.1.5	90% of NASA packages shall be delivered to the customer within 15 days.
3.2.1.6	90% of direct freight packages shall be delivered to customer within 5 days.
3.2.1.7	90% of Excess documents shall be processed within 30 days.
3.2.2-1	100% completion of preventive/predictive maintenance for critical and/or mission essential Heavy Equipment Shop equipment (NASA only) (MOD 436)
3.2.2-2	48% aggregate annual completion rate of preventive/predictive maintenance for all Heavy Equipment Shop equipment (NASA only) (MOD 436)
3.2.2-3	Reserved
3.2.2-4	Reserved
3.2.2-5	Air Force Mission Critical Emergency Vehicle In-Commission Rate shall be available 88% of the time.
3.2.2-6	Air Force Mission Critical War Readiness Material (463L) shall be available 86% of the time.

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Number	Performance Description
3.2.2-7	Air Force Registered/Owned Equipment shall be available 88% of the time. Metric 3.2.2.1d
3.2.2-8	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	At least 90% of NASA calibrations laboratory priority work orders shall be completed as negotiated with customer.
3.2.3-7	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	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.
3.2.4-2	Propellants and Life Support services are delivered as scheduled or as negotiated with the customer 95% of the time.
3.2.4-3	100% completion of preventive/predictive maintenance for critical and/or mission essential Propellants and Life Support equipment. (MOD 436)
3.2.4.4 New PS	93% aggregate annual completion rate of preventive/predictive maintenance for all Propellants and Life Support equipment. (MOD 436)
3.2.5-1	100% Anomaly free flights. No aircraft in-flight anomalies as a result of inadequate maintenance.

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Number	Performance Description
3.2.5-2	Aircraft shall be available and ready to meet scheduled departure 95% of the time. Should deviations occur, an assessment of the situation, including estimated time to complete the repair, shall be required within one hour.
3.2.5-3	Reserved
3.2.5-4	Reserved
3.2.5-5	Aircraft servicing shall be provided within 60 minutes of the pilots request 92% of the time.
3.2.5-6	Reserved
3.2.5-7	100% of aircrew evaluations rated satisfactory or above.
3.2.6-1	Wastes shall be picked up within 15 calendar days of request.
3.2.6-2	Hazard determinations completed within 30 calendar days.
3.2.6-3	Post emergency spill clean-up shall commence within one work day of notification.
3.3.1-1	Computer systems and applications shall be operational and/or available 99% of the time, with unscheduled downtime not exceeding four hours for critical systems or 12 hours for non-critical systems for each incident.
3.3.1-2	Unauthorized actions that result in systems access, denial of services, loss of data integrity, or disclosure of sensitive information shall be reported to the Government within two hours upon detection.
3.3.1-3	Reserved
3.3.1-4	95% of IT milestones and products shall be provided as scheduled or as negotiated with the customer.
3.3.1-5	The Reportable software deliverable success rate will not be lower than 70% for the award fee period.
3.3.1-6	Servers shall be operational and/or available 99% of the time.
3.3.1-7	LPS, PMS/GMS, and MADS Minus-Time data shall be made available with a 90 % or better delivery time for each launch or launch event. Telemetry launch data shall be processed with the following delivery target hours: GMS/PMS – 72, LPS – 36, MADS SSME – 24, MADS SSME Ascent – 36.
3.3.2-1	Deleted Mod 203
3.3.2-2	Reserved
3.3.2-3	Reserved

Number	Performance Description
3.3.2-4	Deleted Mod 203
3.4.1-1	Provide 95% on-time completion of jobs as negotiated between the contractor and the customer, but no jobs later than five (5) work days after the negotiated completion date.
3.4.2-1	Meet need dates as negotiated with customers for 90% of all material acquisitions.
3.4.2-2	Reserved
3.4.3-1	Provide 80% accurate and consistent mail pickup and delivery within one hour of contractor-documented schedule on days where one or more personnel experience an unscheduled absence. Provide 100% accuracy on all other occasions.

In general, System Assurance Analysis (SAA) and Operational and Maintenance Requirements Specification Documentation (OMRSD) on Critical systems with new Critical Items List (CIL) shall be completed through technical review with the customer prior to its use in a Critical operation or flow. SAAs and OMRSDs on Critical systems without CILs shall be complete through contractor's internal technical review prior to its use in a Critical operation or flow. SAAs and OMRSD, or approved alternate documents, required on Mission Essential non-critical systems shall be completed as negotiated with the customer.

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JOINT BASE OPERATIONS AND SUPPORT

CONTRACT

**ATTACHMENT J-4
COMPLIANCE DOCUMENTS**

COMPLIANCE DOCUMENTS

WBS	Document Number	Rev. Date	Document Name	Mod Number
1.1.1.1	45 SW Base Support Policy	06/00	Policy for Commercial Launch/Range Customers on Sources of Base Support	Mod 205
1.1.1.1	KNPR 8630.3A	07/05	KSC Shuttle Processing Flight Readiness Certification Review and Mission Management Team Support Plan	Mod 436
1.1.1.1	NSTS 08171	07/05	Operational Maintenance Requirements and Specification Document (OMRSD)	Mod 436
1.1.1.1	ELV/EELV 501.97	Draft	Universal Document System	
1.2	29 CFR 1910.119	11/95	Process Safety Management Standard	Mod 205
1.2	EWR 127-1 (T)	03/95	Eastern and Western Range Safety Policies and Processes	
1.2	KNPR 8715.3	12/04	KSC Safety Practices Procedural Requirements	Mod 348
1.2.1.2	KNPR 8715.3	10-04	KSC Safety Practices Procedural Requirements	Mod 334
1.3.2	45 SWI 65-601	06/03	Reimbursement Policy	Mod 205
1.3.2	NPR 9501.2D	05/01	NASA Contractor Financial Management Reporting	Mod 205
1.4.1	ANSI/ISO/ASQ-9001-2000	12/00	Standard, "Quality Systems-Model for Quality Assurance in Design, Production, Installation and Servicing"	Mod 205
1.4.1	NSTS 5300.4 (1D-2)	09/97	Safety, Reliability, Maintainability and Quality Provisions for the Space Shuttle Program	Mod 436
1.4.1	KNPR 8720.1	11/04	KSC Reliability, Maintainability, and Quality Assurance Procedural Requirements	Mod 266
1.4.2	NSTS 22206	07/01	Requirements for Preparation and Approval of Failure Modes and Effects Analysis (FMEA) and Critics Items List (CIL)	Mod 205
1.4.2	NASA STD 8719.7	01/98	Facility System Safety Guidebook	Mod 205
1.4.2	NSTS 07700 Volume V	10/03	Information Management Requirement	Mod 205
1.4.2	NSTS 22206	07/01	Requirements for Preparation and Approval of Failure Modes and Effects Analysis (FMEA) and Critics Items List (CIL)	Mod 205
1.4.2	NSTS 22254	07/01	Methodology for Conduct of Space Shuttle Hazard Analyses	Mod 205
1.4.2	NSTS 07700, Volume X	10/03	Flight and Control System Specification – Book 1, Requirements	Mod 205
1.4.2.1	NASA-STD-8729.1	12/98	Planning, Developing, and Managing an Effective Reliability and Maintainability (R&M) Program	Mod 205
1.4.3	KNPR 8715.3(T)	10/04	KSC Safety Practices Procedural Requirements	Mod 334
1.4.3	GIDEP S0300-BT-PRO-010 and S0300-BU-GYD-010	11/94	Government/Industry Data Exchange Program (GIDEP) Operation Manual	Mod 205

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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
1.1.1.3	J-BOSC Tech Exhibit 5.1-501	10/97	Customer Support Function	205
2.1.1.1	J-BOSC Tech Exhibit 2.1.1.1-001	12/00	NASA Real Property	205
2.1.1.1	J-BOSC Tech Exhibit 2.1.1.1-002	12/00	AF Real Property	205
2.1.2.3.1	J-BOSC Tech Exhibit 2.1.2-001	12/03	Vessel/Systems	205
2.1.2.3.4	J-BOSC Tech Exhibit 2.1.2-002	12/03	Renewal Packages for DOT Exceptions	205
2.1.2.4.1	J-BOSC Tech Exhibit 2.1.2-003	06/07	MEE Non-Critical Systems for FY07 Reliability Documentation	Mod 436
2.1.2.4.1	J-BOSC Tech Exhibit 2.1.3-001	03/06	KSC CofF Project Baseline, WBS 2.1.3	Mod 436
2.1.3.2	J-BOSC Tech Exhibit 2.1.3-001	04/03	KSC Cof F Project Baseline, WBS 2.1.3	205
2.1.4.3	J-BOSC Tech Exhibit 2.1.4-01	08/02	Energy Management Office Periodic Report Requirements	205
2.2.1	J-BOSC Tech Exhibit 2.2.1-018	02/06	NOTU PM Frequencies	359
2.2.1.1	J-BOSC Tech Exhibit 2.2-017	05/05	On Line Operation Maintenance Engineering User	286

TECHNICAL EXHIBIT LISTING

WBS	Document Number	Rev. Date	Document Name	Mod Number
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Matrix (OMEU)				
2.2.1.1	J-BOSC Tech Exhibit 2.1.3-001	03/06	KSC Coff Project Baseline, WBS 2.1.3	Mod 436
2.2.1.3	J-BOSC Tech Exhibit 2.2.1.3-001	12/06	Type III Work Orders	390
2.2.1.7	J-BOSC Tech Exhibit 2.2.1.7-01	12/03	KSC Ditch Cleaning	205
2.2.1.8	J-BOSC Tech Exhibit 2.2.1.8	12/03	Pad A&B Slide Wire Area Support Standards	205
2.2.1.19	J-BOSC Tech Exhibit 5.5-801	02/97	Clean Room Services	205
2.2.1.19	J-BOSC Tech Exhibit 5.5-802	09/96	Clean Room Description - NASA	205
2.2.2	J-BOSC Tech Exhibit 2.2.2.3A	12/04	Florida Annexes Refuse Collection Sites and Frequencies	269
2.2.2	J-BOSC Tech Exhibit 2.2.2.3B	06-05	CCAFS Refuse Collection Sites and Frequencies	348 (CCR 05-39)
2.2.2	J-BOSC Tech Exhibit 2.2.2.3C	12/04	KSC Refuse Collection Sites and Frequencies	269
2.2.2.1	J-BOSC Tech Exhibit 5.5-826	11/06	CCAFS Grounds Areas Map and Requirements	398 (CCR 06-18)
2.2.2.1	J-BOSC Tech Exhibit 7.0-016	06/05	KSC Grounds Maintenance	348 (CCR 05-43)

TECHNICAL EXHIBIT LISTING

WBS	Document Number	Rev. Date	Document Name	Mod Number
2.2.2.1	J-BOSC Tech Exhibit 5.5-827	04/05	CCAFS Specific Grounds Maintenance Requirements	293
2.2.2.1	J-BOSC Tech Exhibit 2.2.2.1-01	12/03	Road Maintenance Areas of Responsibility for KSC and CCAFS	205
2.2.2.2	J-BOSC Tech Exhibit 2.2.2.2-01	12/03	Air Force Pest Management Plan	205
2.2.4	J-BOSC Tech Exhibit 2.2.4	04/06	Custodial Services	398 (CCR 06-36 & 07- 01)
2.3	J-BOSC Tech Exhibit 2.3-01	12/06	Completed-One-Time Special Projects for Customers	398
2.3	J-BOSC Tech Exhibit 2.3-02	04/05	Security Support for New Horizon Mission	280
2.3	J-BOSC Tech Exhibit 2.3-03	01/05	Health Physics Services Support for New Horizon Mission	280

NAS10-99001
JOINT BASE OPERATIONS AND SUPPORT
CONTRACT

ATTACHMENT J-9

GLOSSARY, ACRONYMS, AND ABBREVIATIONS

45TH Space Wing (45 SW)	Represents an organization that includes staff and line organizations at Patrick Air Force Base (PAFB), Cape Canaveral Air Force Station (CCAFS), Antigua Air Station, and Ascension Auxiliary Air Field. Tenant organizations and contractors at PAFB, CCAFS, Antigua Air Station, and Ascension Auxiliary Air Field are NOT part of the 45 SW "Organization".
Airworthiness	The capability of an aircraft to be operated within a prescribed flight envelope in a safe manner.
ALERT	A report used to rapidly disseminate information on a significant part, material, or safety problem of general concern, as part of the Government-Industrial Data Exchange Program (GIDEP).
Antigua Air Station	A fully manned tracking and instrumentation station located in the Lesser Antilles approximately 1,250 miles south of Cape Canaveral Air Force Station.
Ascension Auxiliary Air Field	A fully manned tracking and instrumentation station on a volcanic-rock island in the South Atlantic nearly 5,000 miles downrange from Cape Canaveral Air Force Station.
Basic Information Guides (BIGs)	A reference document that compiles cartographic, topographic, geographic, photographic, historic and associated textual information covering facilities, utilities, instrumentation, communications and equipment located at CCAFS and the Florida annexes.
Cape Canaveral Air Force Station (CCAFS)	The geographic area of the station encompasses approximately 24.7 square miles (15,804 acres) and is located on the Atlantic Coast between Port Canaveral, Florida and the National Aeronautics and Space Agency (NASA), Kennedy Space Center (KSC). It includes Air Force, NASA, NOTU, and other tenants/customers. Name changed to Cape Canaveral Air Force Station (CCAFS) (Mod 135)
Cataloging	The process of uniformly identifying, describing, classifying, numbering, and publishing in the Federal catalog System all items of personal property (items of supply) repetitively procured, stored, issued and/or used by Federal Agencies.
Catastrophic (I), Hazard Severity Level	Hazard could result in a mishap causing fatal injury to personnel and/or loss of one or more major elements of flight hardware or ground facility.

Cocoa Ocean Beach Tracking Annex	An unmanned facility that occupies 1.22 acres of Air Force owned land, located five miles north of Patrick Air Force Base in the city of Cocoa Beach, Florida.
Computer	Any equipment or interconnected system or subsystems of equipment used in the automatic acquisition, storage, manipulation, management, movement, control, display, switching, interchange, transmission, or reception, of data, or information. This includes mainframe computers, minicomputers, microcomputers, scientific workstations, word processors, automated office support systems, communication systems, and networks.
Computer, Critical System	An ADP system that provides data necessary to prevent a detrimental impact to workflow continuity.
Computer, Interface	A boundary across which two systems communicate. This interface may be a hardware connection or a convention used to allow communication between two software systems to include but not limited to application programming interfaces and/or graphical user interfaces.
Computer, Launch Critical System	A system that provides data to the critical path of the STS.
Computer, Launch Support Window	That period of time between 72 hours prior to scheduled lift-off and 8 hours post-launch.
Computer, Non-Critical System	An ADP system whose data output can be delayed without detrimental impact to the resumption of workflow continuity.
Computer, Software	The computer code or "program" that executes or runs on a computer. The term software also includes supporting documentation.
Computer, Software Upgrade	A software installation replacing previous source code, libraries and executables requiring verification and validation.
Computer, System Downtime	That period of time when a system is inoperable due to hardware/software/application failure or error in operations and the productive or simulated work being performed cannot be continued.
Computer, User	Any (authorized or unauthorized) individual or process that operates the computer, accesses the computer, inputs commands to the computer, or receives output from the computer.
Critical (II), Hazard Severity Level	Hazard could result in serious injury to personnel and/or damage to flight or ground equipment.

Critical	F/S/E	<u>Facility/System/Equipment where loss of overall system function or improper performance of a system function could result in loss of life, loss of vehicle, or damage to a vehicle system (as defined in NSTS 22206). (MOD 436)</u>
Customer Requirements		Customer requirements are either verbal or written. Customer service personnel will determine the necessary documentation and establish the appropriate type of Work Order (WO).
Down Range		Antigua Air Station and Ascension Auxiliary Air Field.
Eastern Range		The Eastern Range is operated by the 45th Space Wing and includes Cape Canaveral Air Force Station, Patrick Air Force Base, the Florida Annexes, and the downrange sites of Antigua Air Station, and Ascension Auxiliary Air Field.
Emergency		An unexpected, serious occurrence or situation requiring prompt action to mitigate the potential for immediate mission impact, personal injury or loss of property.
False fire alarm		An alarm indication received at the local fire alarm control panel or central fire monitoring system when no fire condition exists. This definition excludes: <ul style="list-style-type: none"> • Alarms caused by communication system malfunctions/repair under the control of another Contractor. • Actual fires • Burned food (popcorn, toast, etc.) • Uncoordinated work by Contractors/Subcontractors other than the Contractor or its representatives. For the purpose of this definition, J-BOSC construction monitors are considered to be J-BOSC representatives.
Flight		For helicopters, flight commences upon engagement of the rotors for the purpose of take-off and continues until the aircraft has returned to the ground and rotors are disengaged. For fixed wing aircraft, flight commences with the taxi roll from a flight line and continues until the aircraft has completed the taxi roll to a flight line.
Florida Annexes		Annexes support the mission at Cape Canaveral Air Force Station and includes the following geographic locations: <ul style="list-style-type: none"> • Jonathan Dickinson Missile Tracking Annex • Malabar Transmitter Annex • Cocoa Ocean Beach Tracking Annex • Missile Instrumentation Station - Patrick AFB (Excluded from GIS and Real Property responsibility. (MOD 205)_ • Melbourne Beach Optical Tracking Annex • Thirteen Mesonet Weather Sites located throughout Central Florida (MOD 205) • Fort Pierce Microwave Relay Annex(MOD 205)

	<ul style="list-style-type: none"> • Port Canaveral Cable Terminal Annex (MOD 205) • Stuart Microwave Relay Annex (MOD 205) • TiCo Airport Weather Annex (MOD 205)
Fort Pierce Microwave Relay Annex	This site occupies 1.76 acres and is located east of I-95, off Johnson Road, in Fort Pierce, Florida (St. Lucie County). (MOD 205)
Frustrated	An inbound shipment that is discrepant in some way (short, damaged etc.). The shipment is considered frustrated until the discrepancy is corrected.
GIDEP (Government-Industrial Data Exchange Program)	A cooperative effort to exchange research, development, design, testing, acquisition, and logistics information among Government and industry participants.
GIMS (Geographic Information Management System)	45 th Space Wing systems management development of GIS for Air Force Space Command applications.
GIS (Geographic Information System)	A computerized relational database management system for capture, storage, retrieval, analysis, and display of spatial (locationally defined) data. GIS software applications allow users to develop linkages between graphical and non-graphical data. Once linked, spatial queries of the linked data can provide users with answers to questions in a fraction of the time previously required to perform the analysis manually.
Improved Grounds	Grounds on which intensive development and maintenance measures are performed, such as frequent mowing, edging, tree and shrubbery-trimming and landscaping. (MOD 205) This category applies to areas within the built-up section of an installation which contains lawns, landscaping, parade grounds, athletic facilities, picnic areas, and PAFB road shoulders and medians along main thoroughfares. Military Family Housing common areas and General Officer's Quarters are also considered improved grounds.
Inflight Anomalies	Any discrepancy due to improper and/or lack of maintenance that affects any system, component, or part associated with the G-159 aircraft and the UH-1H helicopters.
Information	Any communication or reception of knowledge, such as facts, data, or opinions, including numerical, graphic, or narrative forms, whether oral or maintained in any medium, including computerized databases, paper, microfilm, tapes, disks, memory chips, random access memory (RAM) read only memory (ROM), microfiche, communication lines or display terminals. The terms "data", "information", "material", "documents" and "matter" are used interchangeably.

Intermediate Microwave Relay Sites	Additional unmanned relay sites are located between Jonathan Dickinson Missile Transmitter Annex and Cape Canaveral Air Force Station near Wabasso, Fort Pierce, and Stuart, Florida.
Jonathan Dickinson Missile Tracking Annex (JDMTA)	This site occupies 12 acres inside the southern boundary of the Jonathan Dickinson State Park, just north of Jupiter, Florida in Martin County.
KSC	NASA, John F. Kennedy Space Center (the geographical location). (MOD 205)
KSC Records Staging Area	A controlled facility as prescribed by 36 CFR Ch. XII, paragraph 1228.224, used for the temporary storage of non-current records before their transfer to a records center or other disposition. The facility must contain less than 5,000 square feet of storage space or less than 25,000 cubic feet of records.
Major Move	Move of furniture and equipment requiring: floor to ceiling partition and/or fabric panel/landscape rearrangements; electrical modifications; telephone and data communications support from other organizations.
Major Overhaul	Major aircraft maintenance that encompasses major repair, and alterations required for major assemblies, subassemblies, and parts that must be accomplished at an FAA-certified industrial type or manufacturer facility.
Malabar Transmitter Annex (MTA)	This site occupies 640 acres and is located 6.2 miles southwest of Melbourne, Florida on SR 509 in Brevard County.
Melbourne Beach Optical Tracking Annex	An unmanned facility that occupies 1.87 acres of leased land, located 13 miles south of Patrick Air Force Base.
Mesonet Weather Sites	Small-scale networks of meteorological observing sites, each normally covers a very distinct, compact geographical area. Each is assigned an Air Force installation code and located throughout Central Florida. (MOD 205)
Micro-imaging	Reproduction processes used to reduce the storage requirements for hardcopy documents through microfilming, electronic scanning, CD-ROM manufacturing and other related disciplines.
Minor Move	Move of furniture, equipment, and possibly minor floor to ceiling partition and fabric panel rearrangements which are not complex. Minor moves do not require support from other organizations.
Missile Instrumentation Station - Patrick Air Force Base	An unmanned facility that occupies 4.7 acres of ocean front property within the boundaries of Patrick Air Force Base. However, it is considered to be one of the Florida Annexes. (Excluded from Real Property and GIS responsibility) (MOD 205)
Mission Essential F/S/E	<u>Facility/System/Equipment where nominal operation is essential for successful mission performance and failure/inoperability could result in delay of mission or mission milestones and/or cause a loss of mission data. (MOD 436)</u>
Mission Milestone Schedule Impact	An action or lack thereof that causes a delay to customer defined program objectives or critical path processing schedules.
MOD Kits	A set of tools and supplies set aside in a kit that is used exclusively for a NASA modification or special project.

Modification (192, 331, 436)

KSC C of F PROJECT BASELINE

WBS 2.1.3

CONTRACT PERIOD:	FY:	VALUE:
Contract Year 1	FY 99	\$ 17,400,000
Contract Year 2	FY 00	\$ 21,000,000
Contract Year 3	FY 01	\$ 20,000,000
Contract Year 4	FY 02	\$ 17,400,000
Contract Year 5	FY 03	\$ 31,500,000
BASIC Sub-total:		\$ 107,300,000
Contract Year 6	FY 04	\$ 36,700,000
Contract Year 7	FY 05	\$ 25,300,000
Contract Year 8	FY 06	\$ 48,285,000
Contract Year 9	FY 07	\$18,119,000
Contract Year 10	FY 08	\$24,008,000
OPTION Sub-total:		\$152,412,000
TOTAL:		\$259,712,000

NOTES:

1. The original annual baseline established in the workload data of the request for proposal was \$17,400,000.
2. This C of F baseline applies to J-BOSC services for construction management, project management, design engineering, operations and maintenance documentation maintenance engineering, and fire prevention services
3. The support is for projects that are being implemented through the NASA/KSC Procurement Office. It does not include support for projects outsourced to J-BOSC or other support contractors.

Review and Comparison of JBOSC Technical Exhibit 2.1.2-003 to Current JLRRS Data

Type	SYSTEM
Electrical	POWER, K7-0468 CONVERTER COMP FAC LV
Grounding	GROUNDING, E4-2414A GENERATOR FACILITY
	GROUNDING, H5-2176 ALS SUBSTATION 15
	GROUNDING, J5-1195 DIFF GLOBAL POSIT
	GROUNDING, J5-1197 SLF CONTROL TOWER
	GROUNDING, J6-0407 ANTENNA BLDG (HRT)
	GROUNDING, J6-2428 COMM CROSS CONNECT #3
	GROUNDING, J6-2463 COMM CROSS CONN TERM
	GROUNDING, J6-2109 OPERATIONS SUPP BLDG
	GROUNDING, K6-0261 ALS SUBSTATION 33
	GROUNDING, K6-0791 OPF SCAPE BUILDING
	GROUNDING, K6-0947 VAB UTILITY ANNEX
	GROUNDING, K7-0468 C/C FACILITY
	GROUNDING, M6-0138 CD&SC
	GROUNDING, N6-1007 WATER PUMP STATION
	GROUNDING, M6-0342 CIF
	GROUNDING, K6-0794 TPS FACILITY
	GROUNDING, K7-0412 HP OXYGEN FACILITY
	GROUNDING, J7-0689 PAD B OSB
	GROUNDING, J7-1339 EMERGENCY RESP BLDG
Lightning Protection	LTG PROT, #95000 TPQ-18 STATION
	LTG PROT, E4-2414A GENERATOR FACILITY
	LTG PROT, H5-2176 ALS SUBSTATION 15
	LTG PROT, J6-2428 COMM CROSS CONNECT #3
	LTG PROT, J6-2463 COMM CROSS CONN TERM
	LTG PROT, K6-0791 OPF SCAPE BUILDING
	LTG PROT, K6-0794 TPS FACILITY
	LTG PROT, K6-0947 UTILITY ANNEX
	LTG PROT, K7-0412 HP OXYGEN FACILITY
	LTG PROT, K7-0569 C/C OPS BLDG.
	LTG PROT, M6-0138 CD&SC
	LTG PROT, M6-0342 CIF
	LTG PROT, M7-0362 OPS SUPT BLDG #2
	LTG PROT, J6-0407 ANTENNA BLDG, HRT
	LTG PROT, K6-0261 ALS SUBSTATION 33
	LTG PROT, K7-0468 CONVERTOR/COMPRESSOR
	LTG PROT, J6-0553A EMERG. GEN. BLDG
	LTG PROT, M3-0147 EMER GENERATOR BLDG
	LTG PROT, M6-0495D EMERGENCY GEN
	LTG PROT, J5-1197 SLF CONTROL TOWER
HVAC	HVAC, J6-0407 ANTENNA BUILDING, SLF
	HVAC, K6-0947, UA CLOSED CYC COOL WATER
	HVAC, K6-0947 UTILITY ANNEX, HTHW
	HVAC, K6-0947 UTILITY ANNEX
	HVAC, K6-0947E CONDENSER WATER TRTMT
	HVAC, #60680 MISS ASSY BLG AE (BOILERS)
	HVAC, #60680 MISS ASSEM BLG AE (CHILLERS)
	HVAC, #60680 BLDG AE

ITEM NO.		-06 Rev.C		CONTRACT APPLICATION INFORMATION FOR DRL		B. LINE ITEM TITLE: Facility Maintenance Execution Summary	
C. OPR.		D. TYPE		E. INSPECT/ACCEPT		F. FREQ.	
G. INITIAL SUB		H. AS OF DATE		I. MONTHLY		J. ANNUALLY	
K. DISTRIBUTION		L. TOTALS		M. NO.		N. TYPE	
O. JPB/Infrastructure Lead		P. 1		Q. D		R. D	
S. KSC/NASA/TA - Functional Manager for Facilities Maintenance		T. 1		U. D		V. D	
W. 45 CES/CEO/Chief, Range Operations Element		X. 1		Y. D		Z. D	
DATA REQUIREMENT DESCRIPTION							
1. TITLE		2. NUMBER		3. USE		4. DATE	
Facility Maintenance Execution Summary							
This document will be used by Government personnel to assess the Contractor's stewardship of assigned real property and collateral equipment.							
7. INTERRELATIONSHIP		6. REFERENCES		5. ORGANIZATION		4. DATE	
WBS 2.2, DRD		NPR 8831.2D					
8. PREPARATION INFORMATION							
1. Labor Hour Estimate: Deliver spreadsheets that depicts the number of manhours to do 100% of the PMs (+PTs) that are needed for maintenance of our Facilities/Systems/Equipment as covered by WBS 2.2. Infrastructure for the current fiscal year.							
- Summary worksheets of estimated annual labor hours by primary system							
- Detail worksheets (by primary system) showing, at a minimum: Equipment Number, PM Number, Job Plan Number, PM's Performance Frequency, Estimated Labor Hours, PM's Occurrences per year.							
- in Excel workbook format, Annual (at the beginning of the Fiscal Year).							
2. Deferral Pareto Charts:							
2.1. PM Deferrals: - in Excel workbook format, Monthly.							
2.2. PM Deferrals: for the Critical/ME/Code Compliant Systems-Equipment: - in Excel workbook format, Monthly.							
2.3. PT Deferrals: - in Excel workbook format, Monthly.							
3. Completed PMs: Deliver charts that shows the number of PM/PTs Issued, "Adjusted" Issued, and Completed. - in Excel workbook format, Monthly. - "Adjusted" Issued = "Can't Do" - "Should not Do" - Cancelled. Can't Do = AD, EU, OD Shouldn't Do = IU, VS, RP							
3.1. Deliver a Bar-chart for the month's period grouped by primary systems.							
3.2. Deliver a Trend line chart that shows the total values for the previous 12 months (including the current month).							

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Facility Maintenance Execution Summary
2.2-06

8. PREPARATION INFORMATION (continued)

4. Completed PTs: Deliver charts that shows the number of PM/PTs Issued, "Adjusted" Issued, and Completed.

- in Excel workbook format, Monthly.
- "Adjusted" Issued = Issued - "Can't Do" - "Should not Do" - Cancelled.
Can't Do = AD, EU, OD.
Shouldn't Do = IU, VS, RP.

4.1. Deliver a Bar-chart for the month's period grouped by primary systems.

4.2. Deliver a Trend line chart that shows the total values for the previous 12 months (including the current month).

5. 6-Month Overdue: Deliver a listing of the Type1 PM maintenance tasks for Facility-Systems-Equipment.

- in Excel workbook format, Monthly.
- Data should be provided in list format.
- The listing needs to include all of the WONs that were Reported more than 6 months

ago and are still Open or Completed.

- The listing needs to include the following fields (as a minimum): WON, Won Description, Reported Date, Completion Date, (current) Status.

6. Lag Time from Submittal to Completed to Closed: Deliver a listing of the Type1 PM maintenance tasks for Facility-Systems-Equipment.

- in Excel workbook format, Monthly.
- Data should be provided in table format as well as depicted graphically (chart).
- The data will be for the previous 12 months.
- For each month, the data and charting needs to collect and display the following:
 - Number of "Reported WONs" (opened / issued).
 - The number of the "Reported WONs" that are now in the status of Closed (Maximo's Close and Can).
 - The number of the Reported WONs that are now in the status of Completed (Maximo's Comp and Cmpl)
 - The number of the Reported WONs that are now in the status of Deferred (Maximo's CDEF).
 - The number of the Reported WONs that are now still in the status of Open.

| Format to be partnered with the Government.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. 437		3. EFFECTIVE DATE 08 Jun, 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.						
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, modification 409, dated 15 February 2007 and modification 425 dated 30 April 2007.						
SF 30, Block 14 is changed from: "Definitization of this change order will occur not later than 30 Apr 07" to "Definitization of this change order will occur not later than 30 July 2007".						
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 		16C. DATE SIGNED 08 June 2007
(Signature of person authorized to sign)				(Signature of Contracting Officer)		

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT CODE	PAGE OF PAGES 1 1	
2. AMENDMENT/MODIFICATION NO. 438		3. EFFECTIVE DATE June 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 <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 <u>0</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 definitization schedule identified in change order 403, reductions for partnered government decision packages numbers 05b (Reduce SRMC design WLI by \$400K in Master Planning), 10b (Reduce SRMC design work load indicator), 13b (Reduce construction inspection), dated February 7, 2007.</p> <p>Decision packages 03b, 06b, 12b, 46b, 47b, 49b previously included in modification 403 have been determined to be efficiencies and require no further action.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order is expected to occur not later than 30 June 07" to "Definitization of this change order is expected to occur not later than 6 Aug 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)		
				Timothy M. Freeland Contracting Officer		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
						June 13, 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. 439	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. See Schedule	5. PROJECT NO. (If applicable) J-BOSC
6. ISSUED BY NASA/John F. Kennedy Space Center Office of Procurement MAIL CODE OP-OS KENNEDY SPACE CENTER FL 32899	CODE KSC	7. ADMINISTERED BY (If other than Item 6) NASA/Kennedy Space Center Office of Procurement MAIL CODE OP-OS-JP ATTN: Bryce Collins KENNEDY SPACE CENTER FL 32899	CODE KSC
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) SPACE GATEWAY SUPPORT Attn: NONE SPECIFIED 2411 DULLES CORNER PARK STE 800 HERNDON VA 20171-3431		(x) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE	FACILITY CODE	X 10A. MODIFICATION OF CONTRACT/ORDER NO. NAS1099001	10B. DATED (SEE ITEM 11) 08/15/1998

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.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
Net Increase: \$11,392,227
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	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 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:
X	D. OTHER (Specify type of modification and authority) Contract Article G-2 Contract Funding & FAR 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor 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.)
The purpose of this unilateral modification is to obligate funding in the amount of \$11,392,227. The funded through date is 8-24-2007.
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) Timothy M. Freeland
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED
(Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)
	16C. DATE SIGNED 06/15/2007

DUPLICATE ORIGINAL

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONT. ID CODE	PAGE OF PAGES 1 1
2. AMENDMENT/MODIFICATION NO. 440		3. EFFECTIVE DATE June 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		7. ADMINISTERED BY (If other than Item 6) OPOS	
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 <u>0</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 definitization schedule identified in change order 404, reductions for partnered government decision packages numbers 17b (Reduce CCAFS estimator support) and 45b (Reduce Heavy Equipment Support), dated February 7, 2007.</p> <p>SF 30, Block 14 is changed from: "Definitization of this change order is expected to occur not later than 29 Jun 07" to "Definitization of this change order is expected to occur not later than 24 Aug 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
					29 Jun 07
(Signature of person authorized to sign)			(Signature of Contracting Officer)		