				IPPLIES OR SER	VICES					PAGE (F PAGE	
IMPORTANT:	: Mark a	Il packages and papers with		rder numbers.						1		22
DATE OF OF	HSHQDC-10-D-00003				6. SHIP TO:							
09/27/20	10		003		a NAME	OF C	ONSIGNEE					
ORDER NO.												
HSHQDC-1	0-J-0	00455	ROHA-10-0	0182	Department of Homeland Security							
U.S. Dep Office o	of Pro	fress correspondence to) f Homeland Secur ocurement Operat ion Division	7.00		b. STRE 245 M Bldg.	Murr	ay Lane					
245 Murr					1							
Building	The same	me, sw			e. CITY				1,	d. STATE	e. ZIP C	OOF
	shington DC 20528			Wash	ingt	on			Carrier III	20528		
, TO:					f. SHIP V	na.			-	- 1	-	
NAME OF CO		OR MAN SECURITY SY	STEMS LLC									_
COMPANY N	AME	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO ADDRESS OF THE PERSON	The second second		П.			TYPE OF ORDER	-		_	-
				REFERE				MP	DELIVERY			
c. STREET ADDRESS 1580 B WEST NURSERY RD				- NEFENC	-	our.		reverse	cept for billing instructions on the verse, this delivery order is subject instructions contained on this side			
					-	1000	No. 12 Table		only of t	this form an	d is isous	d
							ne following on the ter pecified on both side:			to the terms bove-number		
CITY			e. STATE	f. ZIP CODE	this order	and o	the attached sheet, y as indicated					
INTHICUN	HEI	GHTS	MD	210900000		Joseph	y se noncoro					
And the second of the second		PROPRIATION DATA					NING OFFICE	1404.500				
See Sched	1100				U.S.	Dep	t. Of Homel	-				_
a SMAL	L	CATION (Check appropriate b X b. OTHER T	HAN SMALL	C. DISADVANTAGE		V	ERVICE- ISABLED ETERAN- WNED	12.FOB.PON Destinat				
	-	13. PLACE OF	- 1	14. GOVERNMENT BAL	NO.		15. DELIVER TO F.		16.	DISCOUNT	TERMS	
INSPECTION Destinat:	ion	b ACCEPTANCE Destinati					ON OR BEFORE	(Date)			Ne	t 30
				17. SCHEDULE (S	ee reverse for	Rejec	tions)					
ITEM NO.		14.00 0 35.540.0	OR SERVICES		QUANTITY ORDERED (c)		UNIT PRICE (e)	AM	OUNT (f)			ANTITY EPTER
E F F A	ompor PA: P rogra ctivi	Number: 1046382 hent: WMD & Biod BioWatch am: Generation 3 ity: Phase I Ger mer: NORTHROP Grued	3 n-3 Testing									
	18. SHIP	PING POINT		19 GROSS SHIPPING	WEIGHT		20. INVOICE NO.	7				17(h) TOTA (Cont
				****		_	-					page
1	1000			MAIL INVOICE TO:		_			22.9.	0.54		4
Total Control	a. NAME	Depa	artment of	Homeland Sec	urity			\$8,2	64,12	5.00		1
	b. STREE (or P.O. E	P.O. Attr	Box 1000 a: Office o	ance Center f Health Aff nsolidation@	Access of the second							17(i) GRAI TOTA
	wil	lliston			d STA	4.00	e ZIP CODE 05495	\$8,2	64,12	5.00		4
22. UNITED ST AMERICA E			heista	ohn Hal	ti:		23 NAME (Typed) Christop	ner Wallis				

ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE NO

IMPORTANT: Mark all packages and papers with contract and/or order numbers. ORDER NO. DATE OF ORDER CONTRACT NO. HSHQDC-10-J-00455 09/27/2010 HSHQDC-10-D-00003 QUANTITY QUANTITY UNIT AMOUNT SUPPLIES/SERVICES ITEM NO ACCEPTED ORDERED PRICE (9) (1) (c) (e) (b) (2) SYSTEMS, LLC This is Task Order 2 for the procurement of twelve (12) ready-to-test detection systems and associated test and support services issued against Contract No. HSHQDC-10-D-00003 under the Base Year Ordering Period (11/12/2009-11/11/2010) for the Department of Homeland Security, Office of Health Affairs BioWatch Gen-3 (Phase 1) Operational Field Testing in accordance with Section C and the Contractor's attached Performance Work Statement (18 pages) at the total estimated value* of \$9,923,271 as follows: - Estimated Cost - Fixed Fee: (*Total estimated value if optional CLINS 0001A and 0001B are exercised.) This Task Order is issued on a cost-plus-fixed-fee basis and is pursuant to the terms and conditions of Contract No. HSHQDC-10-D-00003, and the following FAR Clauses, which are hereby incorporated by reference: 52.246-3 Inspection of Supplies: Cost-Reimbursement 52.232-22 Limitation of Funds 3052.231-70 Precontract costs (DEC 2003) The Contractor shall be entitled to reimbursement for pre-contract costs incurred on or after 21 September 2010 in that, if an amount not to exceed incurred after this contract had been entered into, would have been reimbursable under this contract *per the terms of the precontract cost letter dated 21 September 2010*. (End of clause) Continued ... \$0.00 TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE NO

DATE OF ORDER	Mark all peckages and papers with contract and/or order numbers. CONTRACT NO.				ORDER NO. HSHQDC-10-J-00455			
9/27/2010	0 HSHQDC-10-D-00003			2000	The State of the S			
ITEM NO.	SUPPLIES/SERVICES	QUANTITY		PRICE	AMOUNT	ACCEPTED		
(a)	(0)	(c)	(d)	(0)	to.	(g)		
Per OS OT TE	the Period of Performance for this Task order is September 27, 2010 - September 26, 2011. Cocepted:				\$8,264,125.00 \$8,264,125.00			

ORDER FOR SUPPLIES OR SERVICES SCHEDULE - CONTINUATION

PAGE NO

4

DATE OF OR	T: Mark all packages and papers with contract and/or order numbers. DER CONTRACT NO.				R NO.			
9/27/2	010 HSHQDC-10-D-00003			HSH	HSHQDC-10-J-00455			
ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT	AMOUNT			
(a)	(b)	(c)	(d)	(e)	m	(0)		
ITEM NO.	SUPPLIES/SERVICES	ORDERED		PRICE	(b) (b)	ACCEPTED (g)		
						1		

1 Objectives and Goals

Under the Phase I Systems Performance Demonstration (SPD) contract, the Contractor will provide Next-Gen Automated Detection Systems (NG-ADS) and all technical and operational support to enable the Government to test in an operationally relevant field environment in Task Order 2 to determine the adequacy of the NG-ADS for future procurement and deployment. The Government may also issue additional task orders for engineering enhancements to correct and validate issues identified during testing activities described below.

The objective of this effort is to demonstrate that the NG-ADS:

- · Conforms to the Gen-3 performance specification,
- Has a system performance with associated technologies that meet a minimum Technology Readiness Level (TRL) of 7, and
- Contains acceptable assays and uses reagents produced with adequate quality control procedures.

In support of these objectives, the Contactor shall provide ready-to-test NG-ADS units and the full range of support to include consumables, data management, operations and maintenance (O&M) support, and technical personnel to support the test activities described below. In particular, the Contractor shall:

- Manufacture and deliver ready-to-test NG-ADS units required for all testing. The NG-ADS units' configuration will be baselined at the Task Order 1 configuration, unless otherwise approved by DHS, and remain under configuration control by the Contractor. All NG-ADS units will be of the same configuration and from the same assembly line. The number of spares required to support the testing activities is shown in Attachment 1 – List of Spare Parts.
 - °(b) (4)
- Operate NG-ADS units in support of the tests, including replenishment or consumables and maintenance of the systems when necessary (unless noted otherwise).
- Establish a capability within the independent testing organization and operational test jurisdiction (specifically BioWatch Lab personnel and BioWatch Action Committee) to receive, interpret, and monitor the NG-ADS test results to evaluate the performance of the equipment.
- Collect data and provide reports (Reliability, Availability, Maintainability and Testability (RAM-T) and IT performance data.
- Provide engineering and configuration support.
- Ensure intellectual property and licensing rights are obtained, as appropriate, for commercial-off-the-shelf (COTS) products to allow DHS to operate the NG-ADS units during this Task Order.

1.1 Program Plan

The Contractor has developed a program schedule that meets DHS' Milestone

requirements and schedule objectives (Attachment 2).

The Contractor shall meet the Task Order 2 technical Milestones as follows:

Milestone #3 – Successful completion of the Field Testing activities under Task
 Order 2 within the scheduled time frame.

1.2 Task Order 2

In support of the Task Order 2 field testing activities, the Contractor will provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in (b)(4)(b)(7)(F) and associated information technology (b)(4)(b)(7)(F) to support the field test, reliability, availability, maintainability, and testability (RAM-T) testing, and IT verification and validation. The Contractor will be responsible for providing equipment and technical support, including the O&M of the NG-ADS units during the course of the field test. This support will include supplying/replenishing all consumables, providing any required preventative maintenance, and corrective maintenance (fixing the system) should it break down during the course of the testing.

Tight configuration control will be used to ensure that all units will be of the same configuration for this testing. All the NG-ADS units will be manufactured on the same assembly line.

The Contractor will support the Task Order 2 efforts as described below. This will include providing the necessary NG-ADS units for each test, consumables, spare parts, training, test support, and maintenance support.

1.2.1 Resources

The Contractor shall (b)(4)(b)(7)(F) consumables and other supplies necessary to support the Task Order 2 testing. The Contractor will also setup a (b)(4)(b)(7)(F) to perform local repairs and store equipment, spares, and consumables during field testing. Since all testing will take place in Government designated field sites, the Contractor's support will be focused on providing the necessary NG-ADS units, spares, consumables, and personnel to conduct each test. The NG-ADS units will be prepared for the testing in the (b)(4)(b)(7)(F) The spare parts and consumables necessary to support the testing will also be stored and shipped from this facility and (b)(4)(b)(7)(F)

1.2.2 Task Order 2 Subtasks

1.2.2.1 Task Order 2 Equipment Procurement and Fabrication

In preparation for Task Order 2 field testing, the Contractor will provide all necessary NG-ADS units, reagents, spare parts, tools, associated information technology, and support plans. This preparation will include the ordering of all material for the fabrication and checkout of the NG-ADS units, all reagents and consumables required to operate the units, and all spares and other support equipment required, including the use and maintenance of the b (4) (b)(7)(F)

The Contractor will also establish a depot facility (b)(4) (b)(7)(F)

support the installation, baseline calibration, operational field testing, KAM-1 testing, and IT verification and validation.

(b) (4)

The Contractor will procure all material and fabricate twelve (12) NG-ADS units plus spares (same configuration as described for Task Order 1) to support Task Order 2 field test activities. All NG-ADS units delivered for testing under the Phase I SPD contract will be manufactured on the same assembly line.

The Contractor will maintain supplies, consumables, and personnel adequate to keep the NG-ADS units operational 24/7 during Operational Environment Field Testing (not including down-time for maintenance, calibration, etc.) and to assist in providing failure analysis data as part of the field test. The Contractor will implement a Failure Reporting, Analysis and Corrective Actions System (FRACAS) to facilitate the capture of failure data during Baseline Calibration and the Operational Environment Field Testing. Failure analysis data will identify all observed problems by test unit / instrument, the sub-system at fault, the total time the system / sub-system was down and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The categories for subsystem at fault and associated subsystems will be agreed to prior to the start of testing. If the FRACAS data is maintained in a proprietary format, the FRACAS application must be provided, or the data must be converted to a common useable format such as Microsoft Excel.

The Contractor will procure al consumables required for testing activities performed under Task Order 2. The contractor's plan for quality control of the reagents is described in the Quality Assurance Surveillance Plan (QASP) contained in Volume II—Management Proposal.

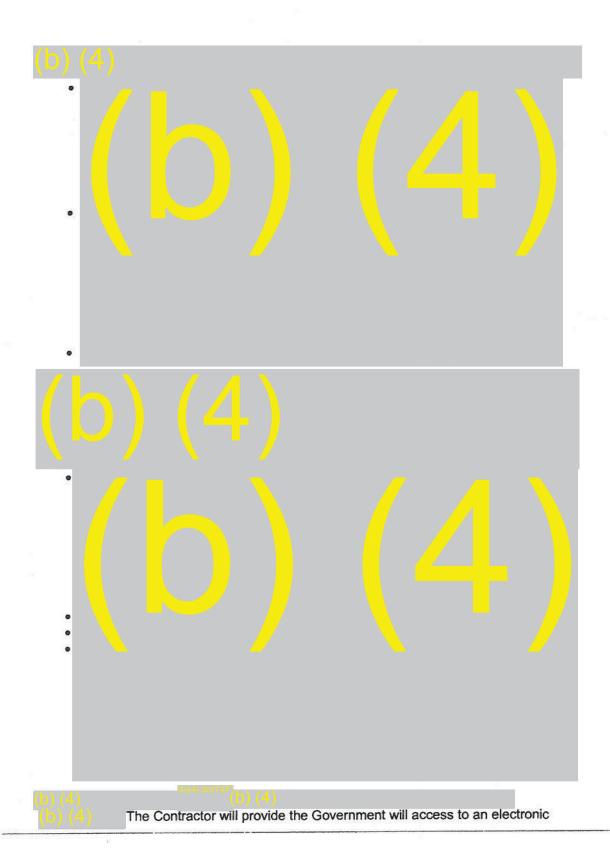
The Contractor will provide all spare components that are necessary to support Task Order 2 activities. The assessment of spare parts required to support Task Order 2 is provided in Attachment 1.

(b) (4)

1.2.2.2 Jurisdictional Training and Coordination

The Contractor will provide equipment for signal receipt and User Interface training to up to eight (8) local public health and DHS personnel. This equipment will include b)(4) (b)(7)(E) used to monitor system operational status and test results as well as system and logistical management. (b) (4)

(b) (4)



HSHQDC-10-J -00455 9/24/2010 copy of a maintenance and operator manual(s) (draft or preliminary version acceptable) not later than 30 days before the start of Operational Environment Field Testing.

1.2.2.3 Detector Baseline Calibration for Field Test Start

After delivery of the twelve (12) NG-ADS units to the urisdiction for Field Testing, the Contractor will be given not less than one (1) month to install, set-up and baseline the units at the operational testing sites identified by DHS. At the end of the set up/baseline period, a Test Readiness Review period lasting not longer than 1 week will occur. The Field Test will commence immediately following the review period. The NG-ADS units will continue to operate and be supported during the review period. Fach NG-ADS will be co-located with other competitive autonomous biodetectors and a

in both indoor and outdoor test environments. The Government will identify the site(s) two (2) months prior to unit delivery (a preliminary list of site(s) will be provided within 2 weeks after receipt of order), provide site prep prior to unit delivery (in accordance with the Contractor's specifications), provide jurisdiction coordination, and will provide security for the NG-ADS during the duration of the test. The Contractor will be responsible for the security of the NG-ADS enclosure (i.e., locked door to access interior of system). The jurisdiction depot(b)(4)(b)(7)(F) will be used during the installation and baseline testing.

The detector baseline calibration will begin four (4) months after receipt of order and will last up to one (1) month in duration. As part of the installation, the contractor will provide Material Safety Data Sheets (MSDS), as necessary, for common consumable items used by their biodetection systems for each consumable subject to spilling (i.e, each liquid), as well as any other common items which may generate disposal/environmental concern, such as batteries.

Detector Baseline Calibration and Review Period Support Details:

- (b)(4)
- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection. Unless otherwise required by the site manager, a Government escort will not be required to access the site whenever required by the Contractor.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.

The Contractor will provide site visit log information to DHS on a weekly basis during Baseline Calibration in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.4 Operational Environment Field Testing

The Contractor will support the operations and maintenance of the twelve (12) ready-totest NG-ADS units in support of the Government's test objectives. The NG-ADS units will be split between indoor and outdoor locations based upon a deployment plan that will be developed by the Government.

The Contractor will provide test labor for operational environment field testing of twelve (12) instruments in the purish jurisdiction beginning within one (1) week of the completion of Baseline Campranon for up to ten (10) continuous weeks. This includes weekly Preventive Maintenance (PM) and as-needed Corrective Maintenance (CM).

Operational Environment Field Maintenance Support Details:



- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.

(b) (4)

At the conclusion of the field test there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install, clean, remove, transport, and unload the twelve (12) biodetector units at a storage facility within the vicinity of as designated by the Government, and restore the site to the condition which it was in when installation started, except for modifications made by DHS or at DHS' direction as part of site prep. The Contractor will remove all equipment and materials originally provided by the Contractor, observing all applicable safety and hazardous materials management regulations and good operating practices.

The Contractor will provide site visit log information to DHS on a weekly basis during the post-test period in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.5 RAM-T Data Collection

The goal of the RAM-T Data Collection effort is to gather RAM-T data on the NG-ADS in an applicable operational environment. This effort will be conducted in applicable operational environments (i.e., indoor environment, outdoor environment) to evaluate and validate overall supportability of the system.



1.2.2.6 IT Signal Processing V&V and Report Generation

The goal of this activity is to conduct verification and validation on the proposed information technology (IT) system and gather data from the (b)(4)(b)(7)(E) to support independent Verification and Validation (V&V) of signal processing and report generation functions. The Contractor will provide equipment for signal receipt to up to eight (8) local public health and DHS personnel for this task (same personnel as identified and trained per paragraph 1.2.2.2). This equipment will include (b)(4)(b)(7)(E) used to monitor system test results.

The Contractor will provide DHS with information regarding how the IT system functions in order to establish a baseline of its current implementation. The Contractor will collaborate with DHS to develop the procedures that will be used by DHS to capture and validate the data generated by the system. Agreed-upon test data/reports will be generated in accordance with these procedures during the last two (2) weeks of Baseline Calibration and during the Operational Environment Field Testing. The Contractor will also participate with DHS in the selection of appropriate standards and conventions that will be applied to the V&V activities. Any findings or discrepancies between these agreed-upon standards and conventions and the existing IT system implementation will be documented and addressed in later phases of the program as appropriate.

1.2.2.7 Field Test Extension Options

Prior to the start of field testing, the Government may exercise an option(s) to extend field testing beyond the initial ten (10) weeks for 30 to 60 days. These optional efforts shall be exercised before, or during, the 1-month Baseline Calibration effort of Section 1.2.2.3 of this PWS. The option(s) will be exercised via a funded modification to this Task Order.

If the field test is extended, the contractor shall provide the same level of base support as provided in the initial 10 weeks for Option 1 (a 30-day extension) and Option 2 (a 2nd 30-day extension). The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the extension period. The contractor shall also be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period.

1.3 Other Requirements

1.3.1 Program Reviews





1.3.2 Management Information

The Contractor shall submit Monthly Project Status Reports (MPSR) no later than the fifteenth workday after the reporting calendar month. Reports will include breakouts by Task Order and SOO Test Events. The Contractor shall provide an MPSR that includes the following elements:

- Project Cost by Task Order:
 - Budget at Completion (BAC)
 - o Actual Cost (AC)
 - o Accrued Cost (estimates)
 - o Cost Variance (CV) Actuals vs. Budget
- Estimate at Complete (EAC)
 - o Estimate to Completion (ETC)
 - o Cost Funds Status
- Performance/Schedule by Task Order and Test Event:
 - o Project Schedule
 - Overall Technical Performance Evaluation
 - Completion percentage of the Milestones and/or Deliverables
 - o Schedule Variance (SV)
 - Variance at Completion (VAC)
- Risk Management by Task Order and Test Event:
 - o Risk Reporting Matrix
 - Risk Mitigation Worksheet

Current period values and cumulative values for data, variances, and forecasts will be provided in numerical format showing values and in graphical format showing trends. Any schedule variance on the critical path will be identified and its impact on subsequent milestones and the project cost and schedule quantified.

The Contractor shall also deliver a draft Program Management Plan and final Program Management Plan. The draft Project Management Plan will be submitted 15 days after a task order is received, with a final submittal reflecting Government input due 30 days after the task order is received. The Project Management Plan shall provide a detailed schedule, including a critical path analysis, along with a narrative discussing the salient issues affecting task execution in terms of needed technical inputs and analysis to meet cost, schedule, and performance in the task execution.

1.3.3 Technology Readiness Assessment

The Contractor shall provide adequate information to permit the Government to determine the TRL level of the NG-ADS technology throughout the course of the program.

1.3.4 Configuration Management

Minor modifications and adjustments to the NG-ADS equipment or manufacturing processes may be required as a result of characterization and field testing. To ensure that the Government is fully engaged and informed about the NG-ADS and the various options for improving them, the Contractor shall maintain a robust configuration management system. The Contractor shall submit proposed changes/modifications that result from the characterization or field testing to the Government for approval.

Once units are delivered for testing, all changes will be reviewed and approved by DHS before they are implemented.

If the program implements modifications or changes that require additional characterization and system tests, the Contractor will provide the consumables and technical support for this effort. These changes will be subject to a contract modification in accordance with the contract's changes clause (FAR 52.243-2).

The Contractor shall implement drawing configuration management consistent with Task Order 1.

1.3.5 Occupational Health and Safety

Prior to delivery of the ready-to-test NG-ADS units, the Contractor shall self-certify that the units being delivered are safe to operate and that all known occupational safety and health concerns are appropriately mitigated.

1.3.6 Technical Exchange Meetings

The Contractor shall prepare for and support technical exchange meetings (TEM) as required to discuss technical issues and agree on an appropriate path forward.

1.4 Deliverables

The Contractor shall deliver the equipment, documentation and training listed in Table 1, Table 2, and Table 3, below. DHS will provide acceptance or comments within 2 calendar weeks of submittal of all data deliverables. Comments and changes will be incorporated once into a single, final submittal. Final coordination of the training deliverables outlined in Table 3 will occur upon completion of the equipment deliverables outlined in Table 2.

Table 1 Program Deliverables

Description	Due
Monthly Project Status Report (MPSR)	NLT 15th of each month
Technical Exchange Meetings	1st TEM NLT 30 days ARO Subsequent meetings as required, not to exceed 1 meeting per month
Updated Project Management Plan	Draft 15 days ARO Final 30 days ARO
Trip Reports	As needed
Summary Subcontract Report	Oct 30 for period 10/1-9/30
(b) (4)	
RAM-T - IT Signal Processing V&V Report Generation	Upon the completion of IT V&V Testing
Safety Assessment Report	Prior to delivery of NG ADS units
Material Safety Data Sheets (MSDS)	2 months ARO
Technology Readiness Assessment support materials	Concurrent with final report
FRACAS summary report	At 14 day intervals, commencing 10 days after start of Operational Environment Field Test and ending 1 month after completion of Operational Environment Field Test
Complete FRACAS data set	With final FRACAS summary report
Maintenance and Operator manual(s)	30 days prior to start of Operational Environment Field Test
Site log, 1 for each system, during pre-test (Baseline Calibration) and post-test	Delivered weekly during pre test and post-test periods

Description	Due
periods	

Table 2 Equipment Deliverables

Description	Due
Twelve (12) NG-ADS Units for (b)(4) (b)(7)(F)	(b) (4)
Spares and consumables in support of Detector Baseline Calibration and Operational Environment Field Testing	months ARO; certain consumables and spares may be delivered in multiple, time-staggered deliveries after the first delivery
Equipment for signal receipt at jurisdiction	Concurrent with the associated training class

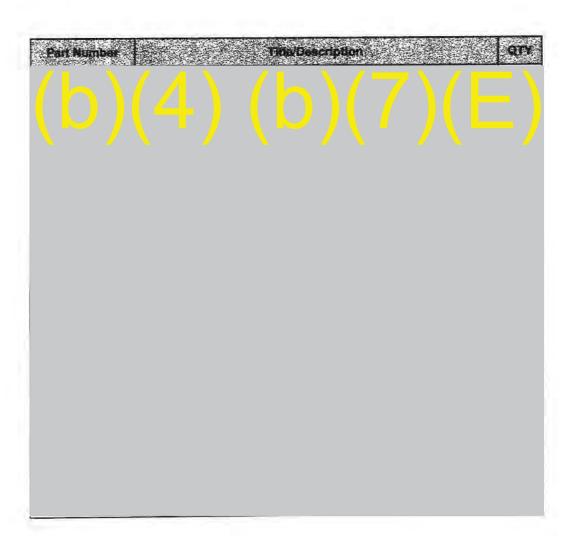
Table 3 Training Deliverables

Description	Due	15.4 写识的 A
User Interface Training in the Field Testing Jurisdiction (b) (4)	(b) (4)	after installation
Technical Orientation Training in the Field Testing Jurisdiction and (b) (4)	(b) (4)	after installation

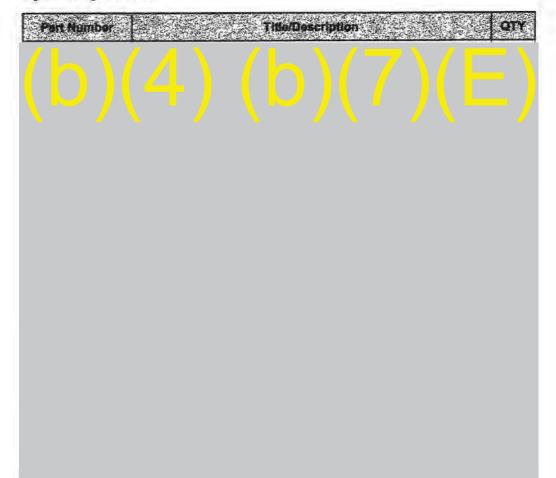
Attachment 1 - Task Order 2 Spares List

Baseline Scope Spares List

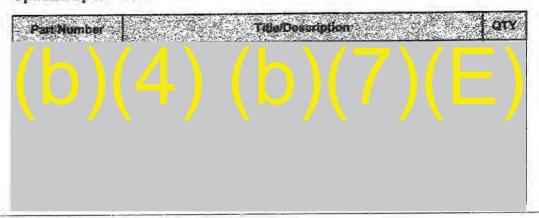


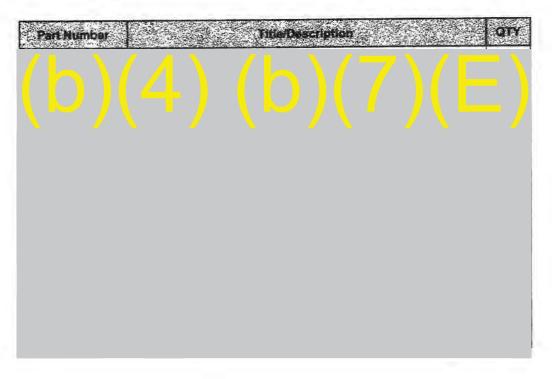


Option 1 Spares List



Option 2 Spares List





NOTE: Baselines Scope Spares not utilized/consumed in support of Task Order 2 Field Test activities shall be available for utilization/consumption for Option 1 and Option 2 Field Test Extensions.

Attachment 2 - DHS SPD Program Schedule

34K	(Work Days)	Month	Month	all 1 of 54 city of the property of the proper
Contract Award (T01)	0	N/A	N/A	•
Task Order #1 - Assay Validation and Characterization Testing				
Assay Testing Vendor Delivers Units per PWS	0	2,25	2.25	
Assey Testing - Train/Certify Lab Personnel	9	74	m	
Assay Testing (50% Utilization per PWS)	120	4	0	
Aerosol Collection Subsystem Test - Vendor Delivers units per PWS to ECBC	0	4	4	•
Aerogol Collection Subsystem Test - Vendor Trains ECBC personnel	S	ın	2	
Aerodol Collection Subsystem Test	20	'n	و	
Analytical Subsystem Tests - Vendor Delivers units per PWS to DPG	0	4	4	•
Analytical Subsystem Test - Vendor Trains DPG personnel	S	s	5	
Analytical Subsystem Test 2.a Limit of Detection	20	s	9	
Milestone #1	D	9	9	•
Analytical Subsystem Test 2.b Probability of Detection	89	9	6	
System Level Test - Vendor Delivers units per PWS to DPG	0	4	*	•
System Level Test	8	1	6	
Milestone #2	0	10	10	•
Contract Award (TD2)				•
Task Order #2 - Field Test				
Vendor Delivers units per PWS to	0	12	12	
Biodetector baseline calibration	30	12	13	
Field Lest/RAM-T/IT Verification and Validation	2	13	16	
Option 1: 30-Day Fleid Test Extension	20	16	17	
Option 2: Additional 30-Day Field Test Extension	30	17	18	
Decommission, Transport, and Unload at the Government Storage Facility	14	16	16	
Data comoliation/report	25	16	17	
Misstons #3	a	17	17	•
Future Task Orders (Unpriced)	180	18	180	
Englishments Consult of the State of the Sta				

Attachment 3 - Contractor's Task Order 2 Schedule

POO 001 6 ISSUED BY					PAGE OF PAGES
	NT/MODIFICATION NO	3 EFFECTIVE DATE	4	REQUISITION/PURCHASE REQ NO	5. PROJECT NO. (If applicable
6. ISSUED BY		11/18/2010			
	CODE	DHS/OPO/OHA	1	ADMINISTERED BY (If other than from 6)	CODE DHS/OPO/OHA
Office OHA Acq 245 Mur Buildin Washing & NAME AND	ADDRESS OF CONTRACTOR (No., press	ions county, State and ZIP Code)	0 0 2 B	.S. Dept. of Homeland S ffice of Procurement Op HA Acquisition Division 45 Murray Lane, SW uilding 410 ashington DC 20528	erations
1580 B W	GRUMMAN SECURITY SYSTEMS OF THE STREET NURSERY RD OM HEIGHTS MD 21090000			9B DATED (SEE ITEM 11)	
			×	10A MODIFICATION OF CONTRACTIORDE HSHQDC-10-D-00003 HSHQDC-10-J-00455 108 OATED (SEE IYEM 13)	R NO.
CODE 10	46382050000	FACILITY CODE		09/27/2010	
		11. THIS ITEM ONLY ADDITION	STOAME	NUMBERTS OF SOLICITATIONS	
12 ACCOUNT	The second of the second secon	DIFICATION OF CONTRACTS/O	RDERS. IT	MODIFIES THE CONTRACT/ORDER NO. AS	DESCRIBED IN ITEM 14.
See Sche	THIS ITEM ONLY APPLIES TO MO THIS CHANGE ORDER IS ISSUED PROPORTION OF THE TOTAL B. THE ABOVE NUMBERED CONTRACT appropriation date, etc.) SET FORTH	URSUANT TO: (Specify authority) FORDER IS MODIFIED TO REFINITEM 14, PURSUANT TO THE	LECT THE E AUTHOR	MODIFIES THE CONTRACT/ORDER NO. AS UNGES SET FORTH IN ITEM 14 ARE MADE I ADMINISTRATIVE CHANGES (such as changing of FAR 43.103(b).	N THE CONTRACT
See Sche	THIS ITEM ONLY APPLIES TO MO THIS CHANGE ORDER IS ISSUED PI ORDER NO. IN ITEM 10A. THE ABOVE NUMBERED CONTRACT appropriation date, etc.) SET FORTH THIS SUPPLEMENTAL AGREEMENT	URSUANT TO: (Specify authority) FORDER IS MODIFIED TO REFI N ITEM 14, PURSUANT TO THE	LECT THE EAUTHOR	ADMINISTRATIVE CHANGES (such as chang	N THE CONTRACT
See Sche	THIS ITEM ONLY APPLIES TO MO THIS CHANGE ORDER IS ISSUED PROPORTION OF THE TOTAL B. THE ABOVE NUMBERED CONTRACT appropriation date, etc.) SET FORTH	URSUANT TO: (Specify authority) FORDER IS MODIFIED TO REF IN ITEM 14, PURSUANT TO THE IS ENTERED INTO PURSUANT IS E-Reimbursement	LECT THE EAUTHOR	ADMINISTRATIVE CHANGES (such as chang	N THE CONTRACT
See Sche	13. THIS ITEM ONLY APPLIES TO MO A THIS CHANGE ORDER IS ISSUED PI ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH C THIS SUPPLEMENTAL AGREEMENT 52.243-2 Changes - Co D OTHER (Specify type of modifications at	URSUANT TO: (Specify authority) FORDER IS MODIFIED TO REF IN ITEM 14, PURSUANT TO THE IS ENTERED INTO PURSUANT IS E-Reimbursement) THE CHA	ADMINISTRATIVE CHANGES (such as chang TY OF FAR 43,103(b).	N THE CONTRACT Jos in pulying office.
CHECK ONE X E IMPORTANT: 14 DESCRIPTION	13. THIS ITEM ONLY APPLIES TO MO A THIS CHANGE ORDER IS ISSUED PI ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH C THIS SUPPLEMENTAL AGREEMENT 52.243-2 Changes — Co D OTHER (Specify type of modifications at Contractor Dis not.)	TO (Specify authority) TORDER IS MODIFIED TO REF IN ITEM 14, PURSUANT TO THE IS ENTERED INTO PURSUANT IS L-Reimbursement Indicating) Elis required to sign this document) THE CHA	ADMINISTRATIVE CHANGES (such as chang TY OF FAR 43,103(b).	in THE CONTRACT ges in proying office.
CHECK ONE X E IMPORTANT: 14 DESCRIPTION UNS Numi The purpo	13. THIS ITEM ONLY APPLIES TO MO A THIS CHANGE ORDER IS ISSUED PI ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH C THIS SUPPLEMENTAL AGREEMENT 52.243-2 Changes - Co D OTHER (Specify type of modification at Contractor Tis not. ON OF AMENDMENT/MODIFICATION (Contractor 104638205+0000) DOSE OF this modificat	PROPER IS MODIFIED TO REFINITEM 14, PURSUANT TO THE SENTERED INTO PURSUANT SET—Reimbursement and authority) Let's required to sign this document in the sentered by UCF section heading in is to document than get Proposal (1)	LECT THE EAUTHOR TO AUTHO ant and resurings, including	ADMINISTRATIVE CHANGES (such as changed to the same of the contract subject matter where for the contract subject matter subject matter where for the contract subject matter where subject matter subject mat	n THE CONTRACT Jos in pulying office. uing office. society.)

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 MAME AND TITLE OF SIGNER (Type or print)

15B CONTRACTOR REPRESENTATIVE

15B CONTRACTOROGE ENOR

15C DATE SIGNED

16C DATE SIGNED

NORTHROP GRUMMAN

(b) (4)

02 November 2010

Letter Number: 2010-11-02 SPD-Biowatch-0057

U.S. Dept. of Homeland Security Office of Procurement Operations OHA Acquisition Division 245 Murray Lane, SW Building 410 Washington DC 20528

Attention: Mr. Chris Wallis - Contracting Officer

Reference: (A) HSHQDC-10-D-00003 Final Contract

(B) HSHQDC-10-J-00024 Executed Task Order 1

Attachments: ECP-SPD-005; Engineering Change Proposal (ECP)

Subject: BioWatch ECP

Mr. Wallis,

Please find attached an Engineering Change Proposal (ECP) (ECP-SPD-005). The attached ECP () (4) cost of Task Order 1.

Sincerely,

Northrop Grumman Security Systems, LLC

(b) (6)

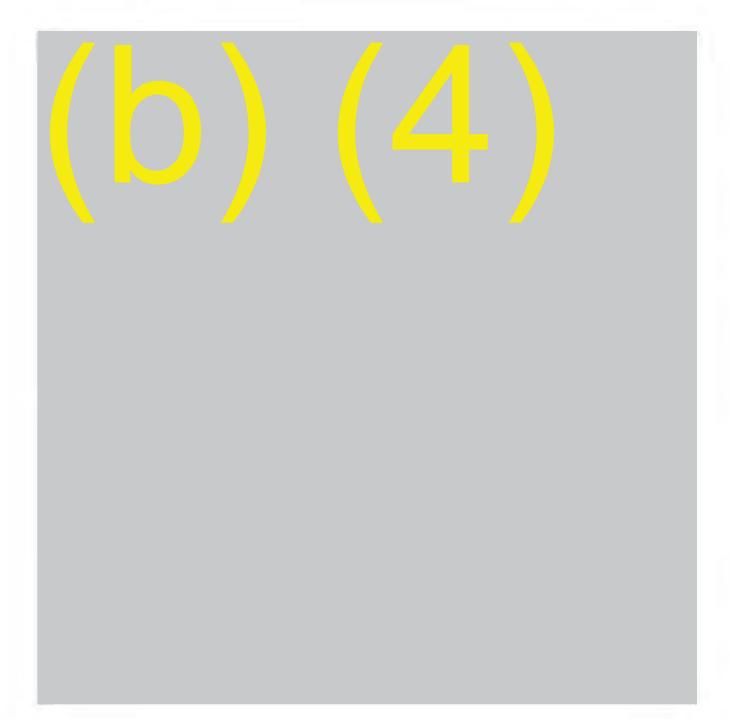
Contracts Representative

Phone

Fax: (b) (6) Email (b) (6

Public reporting burden for the		CHANGE PROPO				1. DATE (YYMM) 101028		FORM APPROVED OMB NO 0704-0188)	
burden estimate or any other	ring and maintaining the er aspect of this collective actorate for Information	tion is estimated to average 2 hours e data needed, and completing and on of information, including sugges Operations and Reports, 1215 Jeffe	freviewin stions for erson Day	g the col reducing vis Highw	lection of information this burden, to De	on. Send comments regarding partment of Defense, Washi	g this ngton	2. PROCURING	ACTIVI	TY NO.
THE GOVERNMENT IS	URN YOUR COMP	uction Project (0704-0188), Washin LETED FORM TO EITHER C TING OFFICER FOR THE CO	OF THE	SE ADD	CURING ACTIV	URN COMPLETED FO	RM TO	3. DODAAC		
4. ORIGINATOR		b. ADDRESS (Street, C	City, Stat	te. Zip C	Code)	5. CLASS OF EC	p	INA		_
a. TYPED NAME (First	t, Middle Initial, Las		h)/	7)		1				
NORTHROP GRUMN	MAN				<u> </u>	6, JUST, CODE I		7. PRIORITY	U	
B. ECP DESIGNATION	L over cont	L - EVETEN DECICNAT	TON			9. BASELINE AFI		☑ PHODE	ICT	
a. MODELTYPE (b)(4) (b)(7)(E)	b. CAGE CODE (b)(4) (b)(7)(E)	c. SYSTEM DESIGNAT NG-ADS		vac	L. DEU	☐ ALLOCATE)	ō		
d. ECP NO. ECP-SPD-0	005		e. T	YPE	t. REV NA	YES	CONFIG	ITEMS AFFECTED NO		
11. SPECIFICATIONS	AFFECTED					GS AFFECTED			- 1	1100
-0.00 mm	CAGE Code	Specification/Document No	Rev	SCN	CAGE Code	\/ 7 \/ \ \	Number		Rev B	NOR
a SYSTEM b DEVELOPMENT			-	-	(b)(4) (b	八/八二)	-		0	IVA
c PRODUCT									12-1	
13. TITLE OF CHANGE			-							
Task Order 2 Manufa	cturing Changes									
14. CONTRACT NO. AM	ND LINE ITEM		15.	PROCU	IRING CONTRA	CTING OFFICER	111			
HSHQDC-10-D-00000					First, Middle Initia	al, Last) Christopher W	allis	CD (200) 254 671	0	
HSHQDC-10-J-00455	TEM NOMENCLAT	URF	b. C	ODE		I C. TELEPHON	NUMB	17. IN PRODUC	TION	_
NA	I LW NOWENCLAT	OTIL						₩ YES		NO
18. ALL LOWER LEVEL	ITEMS AFFECTE)								
a. NOMENCLATURE	NA			b. 1	PART NO. NA	c. NSN I	NA.			
20. NEED FOR CHAN	GE _	tachment 1		_			_			
Further details can be	e tound in Attachm						* H			
		nent 1			EFFECT ON I	PRODUCTION DELIVER	Y SCHE	DUCE		
21. PRODUCTION EFF (b)(4) (b)(7)(E 23. RECOMMENDED ITE	ECTIVITY BY SERI	nent 1		b.	O IMPACT SHIPNEHICLE	PRODUCTION DELIVER	Y SCHE	DULE		
21. PRODUCTION EFF (D)(4) (D)(7)(E 23. HE THO III a. RECOMMENDED ITE NA c. ESTIMATED KIT DEL	ECTIVITY BY SERI	nent 1		b. No d.	O IMPACT SHIPNEHICLE A LOCATIONS O					
(b)(4) (b)(7)(E 23. RECOMMENDED ITE NA c. ESTIMATED KIT DEL NA	ECTIVITY BY SERIE EM EFFECTIVITY IVERY SCHEDULE	AL NUMBER		b. No	O IMPACT SHIPNEHICLE A LOCATIONS O	CLASS AFFECTED R SHIP/VEHICLE NUMB	ERS AF			
21. PRODUCTION EFF (b)(4) (b)(7)(E 23. HE TO THE A. RECOMMENDED ITE NA c. ESTIMATED KIT DEL	ECTIVITY BY SERIE EM EFFECTIVITY IVERY SCHEDULE S/SAVINGS UNDER	AL NUMBER		b. N. d. N. 25	SHIP/VEHICLE A LOCATIONS O A ESTIMATED I A	CLASS AFFECTED	ERS AF			
21. PRODUCTION EFF (b)(4) (b)(7)(E 23. HE FOOTH A. RECOMMENDED ITE NA c. ESTIMATED KIT DEL NA 24. ESTIMATED COST: NO ESTIMATED COST: a. AUTHORIZED SIG	ECTIVITY BY SERIE EM EFFECTIVITY IVERY SCHEDULE S/SAVINGS UNDEF ST IMPACT VITY ENATURE	AL NUMBER		b. N. d. N. 255 N. b.	O IMPACT SHIP/VEHICLE A LOCATIONS O A SESTIMATED I A TITLE D ()	CLASS AFFECTED R SHIP/VEHICLE NUMB	ERS AF			
21. PRODUCTION EFF (b)(4)(b)(7)(E 23. HE TOOL IT NA c. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS NO ESTIMATED COSTS a. AUTHORIZED SIG 27. APPROVAL/DISAPE	ECTIVITY BY SERIE EM EFFECTIVITY IVERY SCHEDULE S/SAVINGS UNDEF ST IMPACT VITY ENATURE	AL NUMBER E CONTRACT		b. N. d. N. 255 N. b.	O IMPACT SHIP/VEHICLE A LOCATIONS O A SESTIMATED I A TITLE D ()	CLASS AFFECTED R SHIP/VEHICLE NUME NET TOTAL COSTS/SAV (a) EPHESENTATIVE	ERS AF			
21. PRODUCTION EFF (D)(4) (D)(7)(E) 23. RECOMMENDED ITE NA c. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS NO ESTIMATED COSTS a. AUTHORIZED SIG 27. APPROVAL/DISAPP a. CLASS I	ECTIVITY BY SERIE EM EFFECTIVITY EMERY SCHEDULE S/SAVINGS UNDER ST IMPACT VITY ENATURE PROVAL DISAPPRO	D. CLASS II		b. No d. No 25 No b. CO	O IMPACT SHIP/VEHICLE A LOCATIONS O A SESTIMATED I A TITLE D ()	CLASS AFFECTED R SHIP/VEHICLE NUME NET TOTAL COSTS/SAV CONCUR IN CLASSIFICATION	ERS AF	FECTED Do Not concu		
21. PRODUCTION EFF (D)(4) (D)(7)(E 23. RECOMMENDED ITE NA a. RECOMMENDED ITE NA 24. ESTIMATED COST: NO ESTIMATED COST: NO ESTIMATED COST: a. AUTHORIZED SIG 27. APPROVAL/DISAPF a. CLASS I	ECTIVITY BY SERIE EM EFFECTIVITY LIVERY SCHEDULE S/SAVINGS UNDER ST IMPACT VITY ENATURE DISAPPRO RECOMME	D. CLASS II		b. No d. No 25 No b. CO	SHIP/VEHICLE A LOCATIONS O A ESTIMATED I A TITLE ONTRACTS R	CLASS AFFECTED R SHIP/VEHICLE NUMB NET TOTAL COSTS/SAN DEPHESENTATIVE G. CLASS II CONCUR IN	ERS AF	FECTED DO NOT CONCU	NOF	D)
21. PRODUCTION EFF (D)(4) (D)(7)(E) 23. RECOMMENDED ITE NA c. ESTIMATED KIT DEL NA 24. ESTIMATED COST: NO ESTIMATED COST: NO ESTIMATED COST: a. AUTHORIZED SIG 27. APPROVAL/DISAPP a. CLASS I APPROVAL RECOMMENDED	ECTIVITY BY SERIE EM EFFECTIVITY LIVERY SCHEDULE S/SAVINGS UNDER ST IMPACT VITY ENATURE DISAPPRO RECOMME	DE CLASS II VAL NDED D. CLASS II APPROVED	е.	No b. No d. No 25 No b. Co	O IMPACT SHIP/VEHICLE A LOCATIONS O A SESTIMATED I A TITLE (b) (I ONTRACTS RI ISAPPROVED	CLASS AFFECTED R SHIP/VEHICLE NUME NET TOTAL COSTS/SAV CONCUR IN CLASSIFICATION	I f.	FECTED DO NOT CONCU CLASSIFICATION CHANGE	YMMDI	D)

ECP NO. ECP-SPD-005 ATTACHMENT 1



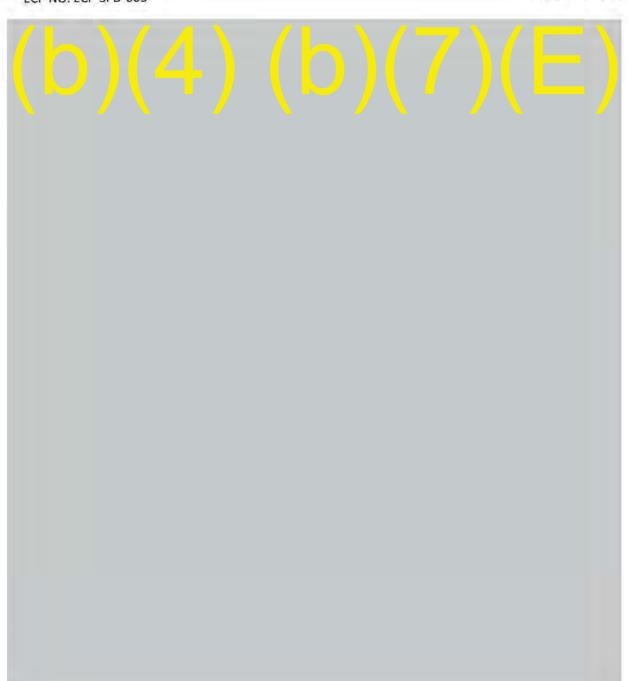
(b)(4)(b)(7)(E)

ECP NO. ECP-SPD-005 ATTACHMENT 1

(b)(4)(b)(7)(E)

ECP NO. ECP-SPD-005 ATTACHMENT 1

(b)(4)(b)(7)(E)



AMENDIA	ENT OF SOLICITATION/MODIFIC	CATION OF CONTRACT		I. CONTRACT ID CODE	PAGE OF PAGES	
2 AMENDM	ENT/MODIFICATION NO	3. EFFECTIVE DATE	14. REQU	ISITION/PURCHASE REQ. NO.	1 22 5. PROJECT NO. (# applicable)	-
P00002		12/15/2010	10.00	11-00045		
6. ISSUED B	AND THE PROPERTY OF THE PROPER	The Printer of the Pr	7. ADM	NISTERED BY (If other than Item 6)	CODE DHS/OPC/OHA	
Office OHA Ac 245 Mu Buildi Washind B. NAME AN	ept. of Homeland Secu of Procurement Opera- quisition Division rray Lane, SW ng 410 gton DC 20528 DD ADDRESS OF CONTRACTOR NO. 2000 DP GRUMMAN SECURITY SY	rity tions et. county, Stato and ZIP Caue)	Offi OHA 245 Buil Wash	Dept. of Homeland Some of Procurement Op- Acquisition Division Murray Lane, SW ding 410 ington DC 20528 MENDMENT OF SOLICITATION NO.	erations	
	WEST NURSERY RD CUM HEIGHTS MD 2109000	00	104	ATED (SEE ITEM 11) MODIFICATION OF CONTRACTIONDE	R NO	
			HSI	IQDC-10-D-00003 IQDC-10-J-00455 DATED (SEE ITEM 13)		_
CODE 1	046382050000	FACILITY CODE		/27/2010		
THE PLAC virtue of th to the solic 12. ACCOUN	etter or tolegram which includes a reference DE DESIGNATED FOR THE RECEIPT OF us amendment you desire to charge an officiation and this amendment, and is receive of the AND APPROPRIATION DATA (17 re) 1 - 000 - H0 - 1.3 - 50 - 00 - 000 - 13. THIS ITEM ONLY APPLIES TO M	OFFERS PRIOR TO THE HOUR AND O er already submitted, such change may be of prior to the opening hour and date spec quired) Not	DATE SPEC be made by sofied. t Incr -00-GE	IFIED MAY RESULT IN REJECTION OF telegram or letter, provided each telegran ease: -0E-25-76-00000	m or letter makes reference	_
CHECK ONE	A THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority) THE	E CHANGE	S SET FORTH IN ITEM 14 ARE MADE I	N THE CONTRACT	
	B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT	CT/ORDER IS MODIFIED TO REFLECT HIN ITEM 14, PURSUANT TO THE AUT	THE ADM	NISTRATIVE CHANGES (such as chang F FAR 43.103(b).	ges in peying office.	
-	C THIS SUPPLEMENTAL AGREEMEN	IT IS ENTERED INTO PURSUANT TO A	AUTHORIT	OF:		
Х	52.243-2 Changes - C D. OTHER Specify type of modification		-243-	10.00		
2 000000		The secured to since this decrement to	ad catum	1 copies to the iss	uino office	-
14. DESCRIE	PTION OF AMENDMENT/MODIFICATION					
DUNS Nu The pur	mber: 104638205+0000 pose of this modifica					
1) Ful	ly fund the Northrop	Grumman Security Sys	stems 7	(NGSS) Task Order 2	base effort.	
	k Order 2 was awarded base effort, and inc o be further funde		\$8,2	64,125, leaving a rem		
B) (b) Pertorm Continue	ance Work Statement (d to fund the follow PWS): preparation o				
	ovided herein, all turns and conditions of the	ne document referenced in Item 9A or 10/	A, as heret	fore changed, remains unchanged and i	n full force and effect.	
(b) (Type or print)	TS REPRESENTATIVE	16A. NA	ME AND TITLE OF CONTRACTING OF a Davis		
(h)	(6)	15C DATE SIGNED	16B UA	and Nach	16C. DATE SIGNED	
NSN 7540-01 Previous editi		1	1	(Signature of Contracting Officer)	STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53 243	2010

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00002

PAGE 2

22

OF

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE	AMOUNT (F')
	exercises, response sampling archive retrieval exercise, review of the technical orientation package and include(b)(4)(b)(7)(E) (b)(4)(b)(7)(E)				
	2) NGSS ECP-SPD-004, dated October 14, 2010, is also being incorporated by reference.				
	As a result of this modification:			1	
	Task Order base effort estimated cost ceiling is increased from (D) (4) by (b) (4) to				
	Task Order base effort fixed fee is increased from (b) (4) by (b) (4) to (b) (4)				
	Task Order base effort total is increased from \$8,366,088, by \$71,627, to \$8,437,715.		8		
	All other Task Order terms and conditions remain unchanged. AAP Number: 64418 DO/DPAS Rating: NONE Discount Terms:				
	Net 30 Delivery Location Code: DHS Department of Homeland Security 245 Murray Lane Bldg, 410				
	Washington DC 20528 FOB: Destination Period of Performance: 09/27/2010 to 09/26/2011				
	Add Item 0002 as follows;				
0002	Funding for additional tasks under Task Order 2 Performance Work Statement. Product/Service Code: AJ14				(b) (4)
	Add Item 0003 as follows:				
0003	Remainder of Task Order 2 base effort funding. Product/Service Code: AJ14				(b) (4)

Performance Work Statement - Task Order 2

1 Objectives and Goals

Under the Phase I Systems Performance Demonstration (SPD) contract, the Contractor will provide Next-Gen Automated Detection Systems (NG-ADS) and all technical and operational support to enable the Government to test in an operationally relevant field environment in Task Order 2 to determine the adequacy of the NG-ADS for future procurement and deployment. The Government may also issue additional task orders for engineering enhancements to correct and validate issues identified during testing activities described below.

The objective of this effort is to demonstrate that the NG-ADS:

- · Conforms to the Gen-3 performance specification,
- Has a system performance with associated technologies that meet a minimum Technology Readiness Level (TRL) of 7, and
- Contains acceptable assays and uses reagents produced with adequate quality control procedures.

In support of these objectives, the Contactor shall provide ready-to-test NG-ADS units and the full range of support to include consumables, data management, operations and maintenance (O&M) support, and technical personnel to support the test activities described below. In particular, the Contractor shall:

- Manufacture and deliver ready-to-test NG-ADS units required for all testing. The NG-ADS units' configuration will be baselined at the Task Order 1 configuration, unless otherwise approved by DHS, and remain under configuration control by the Contractor. All NG-ADS units will be of the same configuration and from the same assembly line, except as otherwise noted herein. The number of spares required to support the testing activities is shown in Attachment 1 List of Spare Parts.
- °(b)(4)
- Operate NG-ADS units in support of the tests, including replenishment of consumables and maintenance of the systems when necessary (unless noted otherwise).
- Establish a capability within the independent testing organization and operational test jurisdiction (specifically BioWatch Lab personnel and BioWatch Action Committee) to receive, interpret, and monitor the NG-ADS test results to evaluate the performance of the equipment.
- Collect data and provide reports (Reliability, Availability, Maintainability and Testability (RAM-T) and IT performance data.
- Provide engineering and configuration support.
- Ensure intellectual property and licensing rights are obtained, as appropriate, for commercial-off-the-shelf (COTS) products to allow DHS to operate the NG-ADS units during this Task Order.

1.1 Program Plan

12/10/2010

The Contractor has developed a program schedule that meets DHS' Milestone requirements and schedule objectives (Attachment 2).

The Contractor shall meet the Task Order 2 technical Milestones as follows:

 Milestone #3 – Successful completion of the Field Testing activities under Task Order 2 within the scheduled time frame.

1.2 Task Order 2

In support of the Task Order 2 field testing activities, the Contractor will provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in (D)(4) (D)(7)(F) and associated information technology (D)(4) (D)(7)(F) to support the field test, reliability, availability, maintainability, and testability (RAM-T) testing, and IT verification and validation. The Contractor will be responsible for providing equipment and technical support, including the O&M of the NG-ADS units during the course of the field test. This support will include supplying/replenishing all consumables, providing any required preventative maintenance, and corrective maintenance (fixing the system) should it break down during the course of the testing.

Tight configuration control will be used to ensure that all units will be of the same configuration for this testing. (b) (4)
(b) (4)
All the NG-

ADS units will be manufactured on the same assembly line.

The Contractor will support the Task Order 2 efforts as described below. This will include providing the necessary NG-ADS units for each test, consumables, spare parts, training, test support, and maintenance support.

1.2.1 Resources

The Contractor shall (b)(4) (b)(7)(F) consumables and other supplies necessary to support the Task Order 2 testing. The Contractor will also setup a (b)(4) (b)(7)(F) to perform local repairs and store equipment, spares, and consumables during field testing. Since all testing will take place in Government designated field sites, the Contractor's support will be focused on providing the necessary NG-ADS units, spares, consumables, and personnel to conduct each test. The NG-ADS units will be prepared for the testing in the (b)(4) (b)(7)(F) The spare parts and consumables necessary to support the testing will also be stored and shipped from this facility and the (b)(4) (b)(7)(F)

1.2.2 Task Order 2 Subtasks

1.2.2.1 Task Order 2 Equipment Procurement and Fabrication

In preparation for Task Order 2 field testing, the Contractor will provide all necessary NG-ADS units, reagents, spare parts, tools, associated information technology, and support plans. This preparation will include the ordering of all material for the fabrication and checkout of the NG-ADS units, all reagents and consumables required to operate the units, and all spares and other support equipment required, including the use and maintenance of the (b)(4)(b)(7)(F) The Contractor will also establish a depot facility (b)(4)(b)(7)(F) to

12/10/2010

support the installation, baseline calibration, operational field testing, RAM-T testing, and IT verification and validation. (b) (4)

The Contractor will procure all material and fabricate twelve (12) NG-ADS units plus spares (same configuration as described for Task Order 1) to support Task Order 2 field test activities. All NG-ADS units delivered for testing under the Phase I SPD contract will be manufactured on the same assembly line.

The Contractor will maintain supplies, consumables, and personnel adequate to keep the NG-ADS units operational 24/7 during Operational Environment Field Testing (not including down-time for maintenance, calibration, etc.) and to assist in providing failure analysis data as part of the field test. The Contractor will implement a Failure Reporting, Analysis and Corrective Actions System (FRACAS) to facilitate the capture of failure data during Baseline Calibration and the Operational Environment Field Testing. Failure analysis data will identify all observed problems by test unit / instrument, the sub-system at fault, the total time the system / sub-system was down and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The categories for subsystem at fault and associated subsystems will be agreed to prior to the start of testing. If the FRACAS data is maintained in a proprietary format, the FRACAS application must be provided, or the data must be converted to a common useable format such as Microsoft Excel.

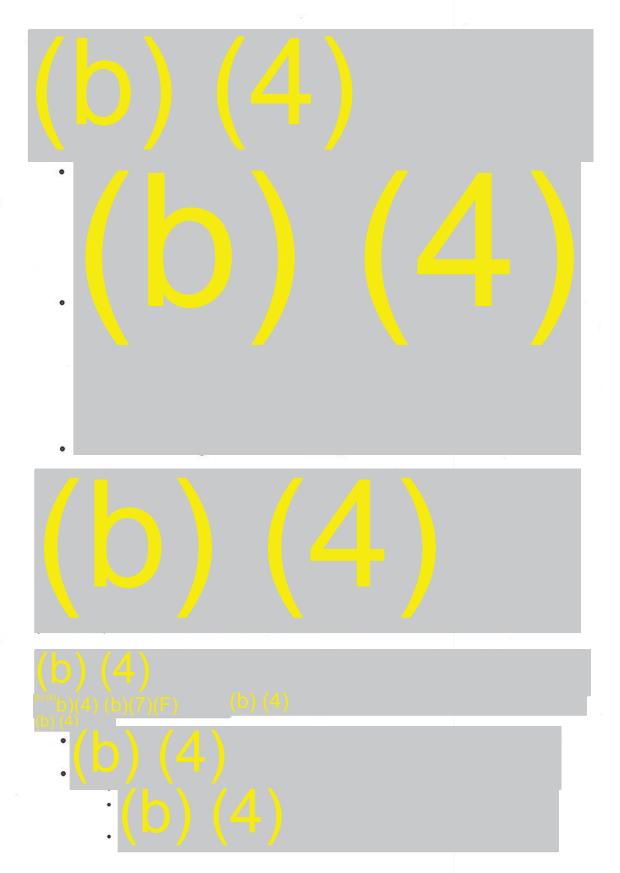
The Contractor will procure all consumables required for testing activities performed under Task Order 2. The Contractor's plan for quality control of the reagents is described in the Quality Assurance Surveillance Plan (QASP) contained in Volume II—Management Proposal.

The Contractor will provide all spare components that are necessary to support Task Order 2 activities. The assessment of spare parts required to support Task Order 2 is provided in Attachment 1.

1.2.2.2 Jurisdictional Training and Coordination

The Contractor will provide eight (8) sets of equipment for signal receipt for use by various users to be specified by the Government. This equipment will be in the form of (b)(4)(b)(7)(E) used to monitor system operational status and test results as well as system and logistical management. (b) (4)

12/10/2010 3



12/10/2010

· (b) (4)



1.2.2.3 Detector Baseline Calibration for Field Test Start

After delivery of the twelve (12) NG-ADS units to the [b] jurisdiction for Field Testing, the Contractor will be given not less than one (1) month to install, set-up and baseline the units at the operational testing sites identified by DHS. (b) (4)

(b) (4)

b)(4) (b)(7)(E

(b) (4) At the end of the set up/baseline period, a review period lasting not longer than 1 week will occur. The Field Test will commence immediately following the review period. The NG-ADS units may continue to operate and be supported during the review period, as mutually agreed upon. Each NG-ADS will be co-located with other

competitive autonomous biodetectors and (b)(4) (b)(7)(=) in both indoor and outdoor test environments. The Government will identify the site(s) two (2) months prior to unit delivery (a preliminary list of site(s) will be provided within 2 weeks after receipt of order), provide site prep prior to unit delivery (in accordance with the Contractor's specifications), provide jurisdiction coordination, and will provide security for the NG-ADS during the duration of the test. The Contractor will be responsible for the security of the NG-ADS enclosure (i.e., locked door to access interior of system). The jurisdiction depot (b)(4)(b)(7)(F) will be used during the installation and baseline testing.

The detector baseline calibration will begin four (4) months after receipt of order and will last up to one (1) month in duration. Prior to the installation, the contractor will provide Material Safety Data Sheets (MSDS), as necessary, for common consumable items used by their biodetection systems for each consumable subject to spilling (i.e, each liquid), as well as any other common items which may generate disposal/environmental concern, such as batteries. The MSDS will be provided not later than two (2) months after receipt of order.

Detector Baseline Calibration and Review Period Support Details:

- (b) (4)
- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection. Unless otherwise required by the site manager, a Government escort will not be required to access the site whenever required by the Contractor.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.

The Contractor will provide site visit log information to DHS on a weekly basis during Baseline Calibration in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.4 Operational Environment Field Testing

The Contractor will support the operations and maintenance of the twelve (12) ready-to-test NG-ADS units in support of the Government's test objectives. The NG-ADS units will be split between indoor and outdoor locations based upon a deployment plan that will be developed by the Government.

The Contractor will provide test labor for operational environment field testing of twelve (12) instruments in the jurisdiction beginning within one (1) week of the completion of Baseline Calibration for up to ten (10) continuous weeks. This includes weekly Preventive Maintenance (PM) and as-needed Corrective Maintenance (CM).

Operational Environment Field Maintenance Support Details:

• (b) (4)



- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.
- (b) (4)

At the conclusion of the field test there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install, clean, remove, transport, and unload the twelve (12) biodetector units at a storage facility within the vicinity of as designated by the Government, and restore the site to the condition which it was in when installation started, except for modifications made by DHS or at DHS' direction as part of site prep. The Contractor will remove all equipment and materials originally provided by the Contractor, observing all applicable safety and hazardous materials management regulations and good operating practices.

The Contractor will provide site visit log information to DHS on a weekly basis during the post-test period in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.5 RAM-T Data Collection

The goal of the RAM-T Data Collection effort is to gather RAM-T data on the NG-ADS in an applicable operational environment. This effort will be conducted in applicable operational environments (i.e., indoor environment, outdoor environment) to evaluate and validate overall supportability of the system.



1.2.2.6 IT Signal Processing V&V and Report Generation

The goal of this activity is to conduct verification and validation on the proposed information technology (IT) system and gather data from the (b)(4) (b)(7)(E) o support independent Verification and Validation (V&V) of signal processing and report generation functions. The Contractor will provide equipment for signal receipt to up to eight (8) local

public health and DHS personnel for this task (same personnel as identified and trained per paragraph 1.2.2.2). This equipment will include (b)(4) (b)(7)(E) used to monitor system test results. (b) (4)

The Contractor will provide DHS with information regarding how the IT system functions in order to establish a baseline of its current implementation. The Contractor will collaborate with DHS to develop the procedures that will be used by DHS to capture and validate the data generated by the system. Agreed-upon test data/reports will be generated in accordance with these procedures during the last two (2) weeks of Baseline Calibration and during the Operational Environment Field Testing. The Contractor will also participate with DHS in the selection of appropriate standards and conventions that will be applied to the V&V activities. Any findings or discrepancies between these agreed-upon standards and conventions and the existing IT system implementation will be documented and addressed in later phases of the program as appropriate.

1.2.2.7 Field Test Extension Options

Prior to the start of field testing, the Government may exercise an option(s) to extend field testing beyond the initial ten (10) weeks for 30 to 60 days. These optional efforts shall be exercised before, or during, the 1-month Baseline Calibration effort of Section 1.2.2.3 of this PWS. The option(s) will be exercised via a funded modification to this Task Order.

If the field test is extended, the contractor shall provide the same level of base support as provided in the initial 10 weeks for Option 1 (a 30-day extension) and Option 2 (a 2nd 30-day extension). The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the extension period. The contractor shall also be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period.

1.3 Other Requirements

1.3.1 Program Reviews



1.3.2 Management Information

The Contractor shall submit Monthly Project Status Reports (MPSR) no later than the fifteenth workday after the reporting calendar month. Reports will include breakouts by Task Order and SOO Test Events. The Contractor shall provide an MPSR that includes the following elements:

- Project Cost by Task Order:
 - Budget at Completion (BAC)
 - Actual Cost (AC)
 - Accrued Cost (estimates)
 - o Cost Variance (CV) Actuals vs. Budget
- Estimate at Complete (EAC)
 - Estimate to Completion (ETC)
 - Cost Funds Status
- · Performance/Schedule by Task Order and Test Event:
 - o Project Schedule
 - Overall Technical Performance Evaluation
 - Completion percentage of the Milestones and/or Deliverables
 - Schedule Variance (SV)
 - Variance at Completion (VAC)
- Risk Management by Task Order and Test Event:
 - o Risk Reporting Matrix
 - Risk Mitigation Worksheet

Current period values and cumulative values for data, variances, and forecasts will be provided in numerical format showing values and in graphical format showing trends. Any schedule variance on the critical path will be identified and its impact on subsequent milestones and the project cost and schedule quantified.

The Contractor shall also deliver a draft Program Management Plan and final Program Management Plan. The draft Project Management Plan will be submitted 15 days after a task order is received, with a final submittal reflecting Government input due 30 days after the task order is received. The Project Management Plan shall provide a detailed schedule, including a critical path analysis, along with a narrative discussing the salient issues affecting task execution in terms of needed technical inputs and analysis to meet cost, schedule, and performance in the task execution.

1.3.3 Technology Readiness Assessment

The Contractor shall provide adequate information to permit the Government to determine the TRL level of the NG-ADS technology throughout the course of the program.

1.3.4 Configuration Management

Minor modifications and adjustments to the NG-ADS equipment or manufacturing processes may be required as a result of characterization and field testing. To ensure that the Government is fully engaged and informed about the NG-ADS and the various

options for improving them, the Contractor shall maintain a robust configuration management system. The Contractor shall submit proposed changes/modifications that result from the characterization or field testing to the Government for approval. (b) (4)



Once units are delivered for testing, all changes will be reviewed and approved by DHS before they are implemented.

If the program implements modifications or changes that require additional characterization and system tests, the Contractor will provide the consumables and technical support for this effort. These changes will be subject to a contract modification in accordance with the contract's changes clause (FAR 52.243-2).

The Contractor shall implement drawing configuration management consistent with Task Order 1.

1.3.5 Occupational Health and Safety

Prior to delivery of the ready-to-test NG-ADS units, the Contractor shall self-certify that the units being delivered are safe to operate and that all known occupational safety and health concerns are appropriately mitigated.

1.3.6 Technical Exchange Meetings

The Contractor shall prepare for and support technical exchange meetings (TEM) as required to discuss technical issues and agree on an appropriate path forward.

1.4 Deliverables

The Contractor shall deliver the equipment, documentation and training listed in Table 1, Table 2, and Table 3, below. Final coordination of the training deliverables outlined in Table 3 will occur upon completion of the equipment deliverables outlined in Table 2.

Table 1 Program Deliverables

Description	Due		
Monthly Project Status Report (MPSR)	NLT 15th of each month		
Technical Exchange Meetings	1st TEM NLT 30 days ARO Subsequent meetings as required, not to exceed 1 meeting per month		
Updated Project Management Plan	Draft 15 days ARO Final 30 days ARO		
Trip Reports	As needed		
Summary Subcontract Report	Oct 30 for period 10/1-9/30		
(b) (4)	(b) (4)		
RAM-T - IT Signal Processing V&V Report Generation	Upon the completion of IT V&V Testing		
Safety Assessment Report	Prior to delivery of NG ADS units		
Material Safety Data Sheets (MSDS)	2 months ARO		
Technology Readiness Assessment support materials	Concurrent with final report		
FRACAS summary report	At 14 day intervals, commencing 10 days after start of Operational Environment Field Test and ending 1 month after completion of Operational Environment Field Test; NOTE: During Field Testing, reports will be submitted to the Gen-3 OTA, not the Program Office.		
Complete FRACAS data set	With final FRACAS summary report		
Maintenance and Operator manual(s)	30 days prior to start of Operational Environment Field Test		
Site log, 1 for each system, during pre-test (Baseline Calibration) and post-test periods	Delivered weekly during pre-test and		

Table 2 Equipment Deliverables

Description	Due
Twelve (12) NG-ADS Units for (b)(4) (b)(7)(F)	NLT 4 months ARO
Spares and consumables in support of Detector Baseline Calibration and Operational Environment Field Testing	First delivery NLT 4 months ARO; certain consumables and spares may be delivered in multiple, time-staggered deliveries after the first delivery
Equipment for signal receipt at jurisdiction	Concurrent with the associated training class

Table 3 Training Deliverables

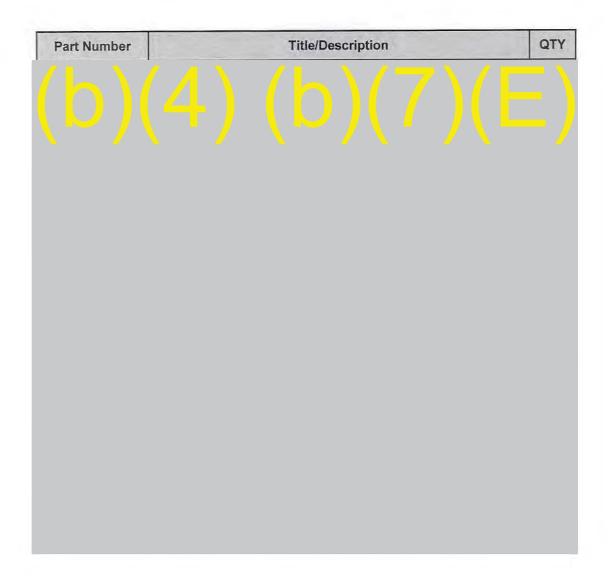
Description	Due
User Interface Training in the Field Testing Jurisdiction and (b) (4) (b) (4)	Beginning (b) (4) start of Detector Baseline Calibration
Technical Orientation Training support materials	(b) (4) receipt of order
Archive Retrieval Training and associated materials	Prior to the start of Detector Baseline Calibration

Attachment 1 - Task Order 2 Spares List

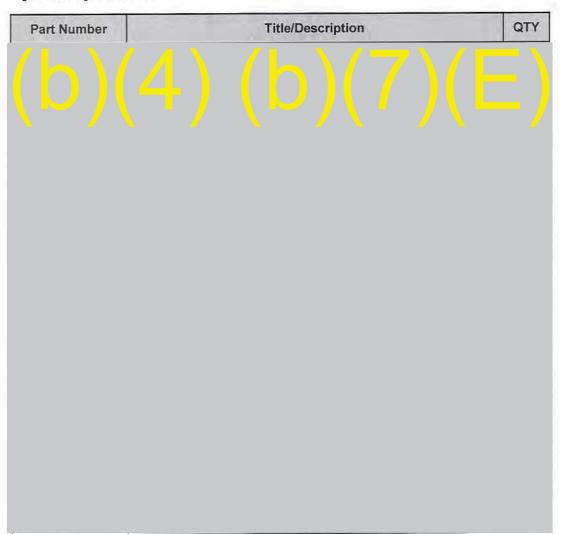
Baseline Scope Spares List



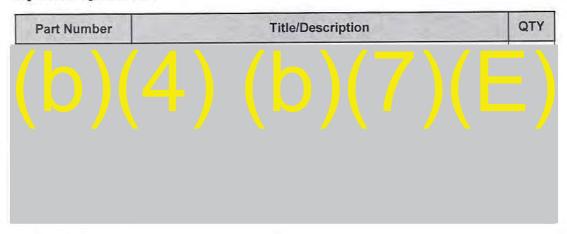
Part Number Title/Description QTY

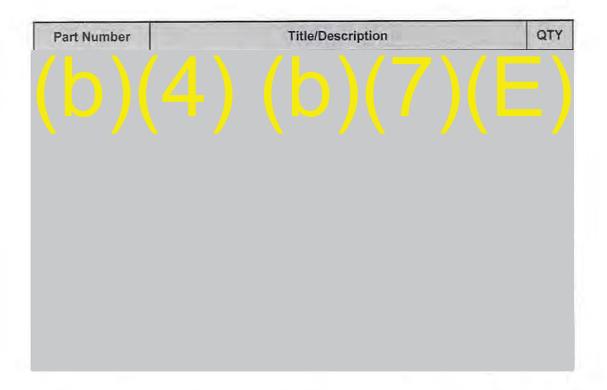


Option 1 Spares List



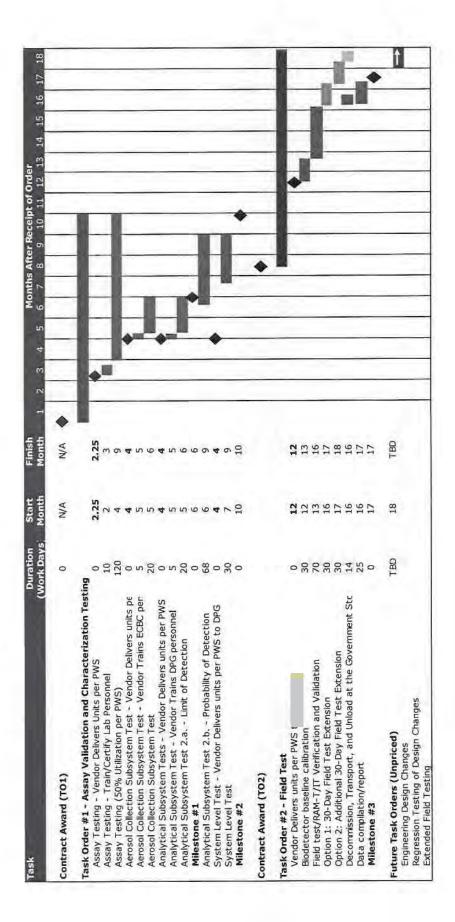
Option 2 Spares List





NOTE: Baselines Scope Spares not utilized/consumed in support of Task Order 2 Field Test activities shall be available for utilization/consumption for Option 1 and Option 2 Field Test Extensions.

Attachment 2 - DHS SPD Program Schedule





	MIEEDING	CHANCE DRODG	CAL	100	יחי	1. DATE (YYM	MDD)	FORM APPROVED OMB NO 0704-018		
Could be a second and a second	INEERING	CHANGE PROPO	SAL	- (EC	,P)	101014		Camb ite digital		
existing data sources, gathe burden estimate or any other Headquarters Services, Dire	ering and maintaining er aspect of this colle- ectorate for Informatio	ration is estimated to average 2 hou the data needed, and completing and ction of information, including sugger of Operations and Reports, 1215 Jeff duction Protect (0704-0188). Washin	reviewir stions for erson Da	reducing	lection of informati this burden, to D	on. Send comments regar	ding this	2. PROCURING	ACTIV	ITY NO.
PLEASE DO NOT RET	TURN YOUR COM	PLETED FORM TO EITHER O	OF THE	SE ADI	DRESSES. RE	TURN COMPLETED	ORM TO	3. DODAAC		
THE GOVERNMENT IS	THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.						IN ITEM	NA		
4. ORIGINATOR		A ANNOFER (Strant C	The Cin	to Tint	"Adal	5. CLASS OF E	CP	1.46	_	
a. TYPED NAME (Firs	st, Middle Initial, La	sn (4)			(F)	1				
NORTHROP GRUMP					\' /	6. JUST, CODE	D	7. PRIORIT	YU	
8. ECP DESIGNATION		T				9. BASELINE A			V 64 -6	
(b)(4) (b)(7)(E	b. CAGE CODE	c. SYSTEM DESIGNAT NG-ADS				FUNCTIO	ED			
d, ECP NO. ECP-SPD-	004		e. T	YPE	f. REV NA	10. OTHER SY	S/CONFIG	. ITEMS AFFECTE NO	D	
11. SPECIFICATIONS			10-	-	10/01/2	GS AFFECTED		Δ ,,,,	-	_
	CAGE Code	Specification/Document No	Rev	SCN	CAGE Cod		Number		Rev	NOR
a SYSTEM					(b)(4)(b)(В	NA
b DEVELOPMENT			-							
c PRODUCT 13. TITLE OF CHANGE		1	1		¥: ,					
Analytical Sensitivity 14. CONTRACT NO. AF			116	PROCE	RING CONTRA	CTING OFFICER	_		-	
HSHQDC-10-D-0000			-			al, Last) Christopher	Wallie			
HSHQDC-10-J-00024	-			ODE	not, whose triff			ER (202) 254-67	18	
16. CONFIGURATION		TURE	1 5.0			1 1 110	- Troinio	17. IN PRODU	CTION	
NA								☑ YES		NO
18. ALL LOWER LEVEL		D								
a. NOMENCLATURE 19. DESCRIPTION OF				b. 1	PART NO. NA	c. NSN	NA			
	n assay routine	script change only. No hard	ware o							
20. NEED FOR CHAN	GE	script change only. No hard	wale, s	softwar	e or consuma	ole modifications are	required			
(b)(4) (b)(7)(E) cost impact to the sys			ware, s	softwar	e or consuma	ole modifications are		entation of this c	hange	has no
	stem configuratio	n.	wale, s	22.	EFFECT ON F	PRODUCTION DELIVE	Implem	entation of this c	hange l	has no
(b)(4) (b)(7)(E) cost impact to the sys 21. PRODUCTION EFFE (b)(4) (b)(7)(E)	stem configuratio	n.	wale, s	22.			Implem	entation of this c	hange	has no
(b)(4) (b)(7)(E) cost impact to the sys	STEM CONTIGURATION	n.	wale, s	222 NC	EFFECT ON F IMPACT SHIPWEHICLE		Implem	entation of this c	hange	has no
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (5)(7)(E)NOED ITE	ECTIVITY BY SER	n. IAL NUMBER	ware, s	222 NO b. NA d.	EFFECT ON F D IMPACT SHIP/VEHICLE	PRODUCTION DELIVE	Implem	entation of this c	hange	has no
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT	ECTIVITY BY SEA	n. IAL NUMBER	ware, c	22. NO b. NA d. DF	EFFECT ON F D IMPACT SHIPWEHICLE LOCATIONS O	PRODUCTION DELIVE	Implem RY SCHEE	entation of this c	hange	has no
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. BETROFIT (b)(3) (b)(7)(E) NDED ITE (c. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS	ECTIVITY BY SEA EM EFFECTIVITY IVERY SCHEDUL S/SAVINGS UNDE	n. IAL NUMBER	ware, c	22. NO b. NA d. DF	EFFECT ON FOR INTERPRETATIONS OF THE PROPERTY	PRODUCTION DELIVE CLASS AFFECTED R SHIP/VEHICLE NUM	Implem RY SCHEE	entation of this c	hange	has no
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (b)(7)(E) NDED ITE C. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS NO ESTIMATED COSTS 26. SUBMITTING ACTIV a. AUTHORIZED SIGN	ECTIVITY BY SER EM EFFECTIVITY IVERY SCHEDUL S/SAVINGS UNDE ST IMPACT //TY NATURE	n. IAL NUMBER	ware, c	22 NO b. NA d. DF 255 NA b.	EFFECT ON FOR IMPACT SHIPVEHICLE LOCATIONS OF PG, NGSS ESTIMATED N	PRODUCTION DELIVE CLASS AFFECTED R SHIP/VEHICLE NUM	Implem RY SCHEE	entation of this c	hange	has no
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (b)(7)(E) 24. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS 26. SUBMITTING ACTIV a. AUTHORIZED SIGI 27. APPROVAUDISAPP	ECTIVITY BY SER EM EFFECTIVITY IVERY SCHEDUL S/SAVINGS UNDE ST IMPACT //TY NATURE	n. IAL NUMBER E R CONTRACT	ware, c	22 NO b. NA d. DF 255 NA b.	EFFECT ON FOR IMPACT SHIPVEHICLE LOCATIONS OF PG, NGSS ESTIMATED N	CLASS AFFECTED R SHIPWEHICLE NUM JET TOTAL COSTS/SJ	Implem RY SCHEE	entation of this c	hange	has no
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (b)(7)(E) NDED ITE C. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS NO ESTIMATED COSTS 26. SUBMITTING ACTIV a. AUTHORIZED SIGN	ECTIVITY BY SER EM EFFECTIVITY IVERY SCHEDUL S/SAVINGS UNDE ST IMPACT //TY NATURE	E R CONTRACT (6) b. CLASS II DVAL ARREPOVED	1	22. NO b. NA d. DF 25. NA b. CC	EFFECT ON FOR IMPACT SHIPVEHICLE LOCATIONS OF PG, NGSS ESTIMATED N	CLASS AFFECTED R SHIPWEHICLE NUM JET TOTAL COSTS/S/ EPRESENTATIVE C. CLASS II CONCUR IN CLASSIFICATION	Implem RY SCHEE	DULE DO NOT CONCL CLASSIFICATIO	EIN	has no
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (b)(7)(E) NDED ITE (c. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS 26. SUBMITTING ACTIV a. AUTHORIZED SIGN 27. APPROVAL/DISAPP a. CLASS I	ECTIVITY BY SER EM EFFECTIVITY IVERY SCHEDUL S/SAVINGS UNDE ST IMPACT //TY NATURE PROVAL DISAPPRO RECOMME	E R CONTRACT (6) b. CLASS II DVAL ARREPOVED		22. NO b. NA d. DF 25. NA b. CO	SHIPWEHICLE COCATIONS O PG, NGSS ESTIMATED N TITLE (b) (6 DNTRACTS R	CLASS AFFECTED R SHIPWEHICLE NUM JET TOTAL COSTS/S EPRESENTATIVE C. CLASS II CONCUR IN	Implem RY SCHEE BERS AFF	DULE DO NOT CONCL	R IN V OF	
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (b)(7)(E) 24. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS NO ESTIMATED COSTS 26. SUBMITTING ACTIV a. AUTHORIZED SIGN 27. APPROVAL/DISAPP a. CLASS I APPROVAL RECOMMENDED d. GOVERNMENT ACTIV	ECTIVITY BY SEA EM EFFECTIVITY IVERY SCHEDUL S/SAVINGS UNDE ST IMPACT //ITY NATURE PROVAL DISAPPRO RECOMME	E R CONTRACT b. CLASS II DVAL ENDED DVAL APPROVED	e. \$	b. NA d. DF 25. NA b. CC	SHIPVEHICLE LOCATIONS OF CONTRACTS RESTIMATED NOT CONTRACTS RESEARCH RESEARCH CONTRACTS RESEARCH RESE	CLASS AFFECTED R SHIPWEHICLE NUM JET TOTAL COSTS/S/ EPRESENTATIVE C. CLASS II CONCUR IN CLASSIFICATION	Implem RY SCHEE BERS AFF	DULE DO NOT CONCL CLASSIFICATIO CHANGE DATE SIGNED (Y	IR IN N OF YMMDD	
21. PRODUCTION EFFE (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (b)(7)(E) 23. RETROFIT (b)(4) (b)(7)(E) 24. ESTIMATED KIT DEL NA 24. ESTIMATED COSTS NO ESTIMATED COSTS NO ESTIMATED COSTS 26. SUBMITTING ACTIV a. AUTHORIZED SIGN 27. APPROVAL/DISAPP a. CLASS I APPROVAL RECOMMENDED	ECTIVITY BY SER EM EFFECTIVITY IVERY SCHEDUL S/SAVINGS UNDE ST IMPACT //TY NATURE PROVAL DISAPPRO RECOMME	E R CONTRACT b. CLASS II DVAL ENDED DVAL APPROVED	e. \$	222 NO D. N. A. d. D. F. 25. N. A. D. C. C.	SHIPVEHICLE LOCATIONS OF CONTRACTS RESTIMATED NOT CONTRACTS RESEARCH RESEARCH CONTRACTS RESEARCH RESE	CLASS AFFECTED R SHIPWEHICLE NUM JET TOTAL COSTS/S/ EPRESENTATIVE C. CLASS II CONCUR IN CLASSIFICATION	Implem RY SCHEE BERS AFF	DULE DO NOT CONCL CLASSIFICATIO CHANGE	IR IN N OF YMMDD	

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			-	1. CONTRACT ID CODE	100	OF PAGES
2 AMENDA	ENTMODIFICATION NO.	3 EFFECTIVE DATE	4 REC	UISITION/PURCHASE REQ. NO	15 PROJEC	T NO (If applicable)
P00003		See Block 16C		-11-00049	700 35082	
6 ISSUED			7 ADI	MINISTERED BY (If other than Ilem 6)	CODE DI	IS/OPO/OHA
Office OHA Ac 245 Mu Buildi Washin & NAME AN	ept. of Homeland Secu of Procurement Opera- quisition Division rray Lane, SW ng 410 gton DC 20528 ND ADDRESS OF CONTRACTOR (No. 1894) DP GRUMMAN SECURITY SY	Lions I county, State and ZIP Code)	Off OHA 245 Bui Wasl	Dept. of Homeland Sice of Procurement Op Acquisition Division Murray Lane, SW Iding 410 hington DC 20528 AMENDMENT OF SOLICITATION NO.	erations	
	WEST NURSERY RD	4.4	98	DATED (SEE ITEM 11)		
LINTHIC	CUM HEIGHTS MD 2109000	00				
			× HS	C MODIFICATION OF CONTRACT/ORDS HQDC-10-D-00003 HQDC-10-J-00455 H DATED (SEE ITEM 13)	RNO	
CODE 1	046382050000	FACILITY CODE	0	9/27/2010		
		11. THIS ITEM ONLY APPLIES	S TO AMENOM	ENTS OF SOLICITATIONS		
to the sola	CE DESIGNATED FOR THE RECEIPT OF instamment you desire to change an offi- citation and this emandment, and is receive NTING AND APPROPRIATION DATA (# re- 1 - 000-H0-13-50-00-000+ 13. THIS ITEM ONLY APPLIES TO M	or already submitted, such change in d prior to the opening hour and date yuintd) -05-00-0000-00-00-	may be made to e specified Net Inc 00-00-G	y telegram or letter, provided each telegra rease:	\$872,644	00
1331700						
CHECK ONE	A THIS CHANGE ORDER IS ISSUED I	PURSUANT TO (Specify authority)	THE CHANG	ES SET FORTH IN ITEM 14 ARE MADE I	N THE CONTRAC	T.
	B THE ABOVE NUMBERED CONTRAI appropriation date, etc.) SET FORTH	CT/ORDER IS MODIFIED TO REFL HIN ITEM 14, PURSUANT TO THE	LECT THE ADI	MINISTRATIVE CHANGES (such as chang OF FAR 43.103(b).	ges in paying offic	0,
-	C. THIS SUPPLEMENTAL AGREEMEN			TY OF:		
X	P.W.S. 1.2.2.7 Field D. OTHER (Specify type of modification		ptions			
	D. O THER (Specify type of mountainen)	and summy)				
E. IMPORTA	NT: Contractor Sia not.	(x) is required to sign this docume	ent and return	I copies to the iss	uing office	
Section of Children	PTION OF AMENDMENT/MODIFICATION	THE RESERVE OF THE PROPERTY OF				
DUNS NU	mber: 104638205+0000					
The pur	pose of this modifica	tion is to:				
. Inco	orporate a revised Per	formance Work Sta	tement	(attached, 19 pages).		
	orporate the changes r on Dec. 23, 2010 and					
	ccise and fully fund O contractor shall proves.	De la company de	No. of Street,		i in the	initial
	ed					
A. 4.4.4. (1940)	ovided herein, all terms and conditions of the	e document referenced in Item 9A c	or 10A, as here	tolore changed, remains unchanged and in	n full force and aff	ed.
5A NAME A	THE OF SIGNER THYPE OF PRINT	TS REPRESENTAT	100		OFFICER (Typ	e or print)
		15C DATE SIGNE		NITED STATES OF AMERICA	14	16C. DATE SIGNED
		2/1/11	. /	Mind of Contracting Officer	lli	2 FEB 2011
NSN 7540-0 Previous edit	1-152-8070 ion unusable				STANDARD FOR Prescribed by GS FAR (48 CFR) 53	

AANTAH MATAN CHEET	REFERENCE NO OF DL	ENT BEING CONTINUED	PAGE C	OF.
CONTINUATION SHEET	HSHQDC-10-D-000	ENT BEING CONTINUED 03/HSRQDC-10-J-00455/P00003	2	23

NAME OF OFFEROR OR CONTRACTOR
NORTHROP GRUMMAN SECURITY SYSTEMS LLC

	SUPPLIES/SERVICES	QUANTIT	A 17 K 65-	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	B) The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the 30 day extension period. C) The contractor shall be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period. As a result of this modification to exercise option 1: Task Order estimated cost ceiling is increased by (b) (4) from (b) (4) to (b) (4) Task Order estimated fixed fee is increased by (b) (4) from (b) (4) to (c) (4) Task Order total is increased by \$872,644 from \$8,437,715 to \$9,310,359. All other Task Order terms and conditions remain unchanged. AAP Number: 64418 DO/DPAS Rating: NONE Delivery: 30 Days After Award Discount Terms: Net 30 Delivery Location Code: DHS Department of Homeland Security 245 Murray Lane Bldg. 410 Washington DC 20528 FOB: Destination Period of Performance: 09/27/2010 to 09/26/2011 Change Item 0001A to read as follows (amount shown				
0001A	Option 1: 30-Day Extension Option 1 Estimated Cost. (b) (4) Option 1 Fixed Fee: (b) (4) Option 1 Total Price: \$872,644 Total Line Item Value\$872,644.00 Award Distribution: Continued				872,644.

TO CONTRACT ASSOCIATION	REFERENCE NO. OF DC.	ENT BEING CONTINUED	PAGE	OF
CONTINUATION SHEET	HSHQDC-10-D-000	ENT BEING CONTINUED 03/HSHQDC-10-J-00455/P00003	3	23

NAME OF OFFEROR OR CONTRACTOR
NORTHROP GRUMMAN SECURITY SYSTEMS LLC

M NO	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
	OHAprocurements@dhs.gov	71 - 3			
	Payment Office:	1		- 1	
	Department of Homeland Security	4		1	
	Burlington Finance Center				
	P.O. Box 1000	146		- 1	
	Williston, VT 05495-1000			1	
	Attn: Office of Health Affairs (OHA)	146			
	Fax (802-288-7658)		11 18	1	
	E-mail: OHA.invoice.consolidation@dhs.gov			V.	
	ALC: 70-03-1513				
	TIN: 26-1623625	4		1	
	Dun: 827414181				
	FY Appropriated: FY10				
	Appropriation Title and Year(s): Two year OHA			- 1	
	program funds, 2010			1	
	Treasury Account Symbol (TAS): 700117	1			
	Treasury Appropriation Fund Symbol (TAFS):				
	700/100117 Amount: \$872,644.00(Carryover)				
	Amount: \$872;044.00(Carryover)				
				1	
				1	
				1	
				1	
				1	
		1		1	
				1	
				1	
				1	
		. 1		- 1	
				1	
				1	
				1	
				1	
				1	
				1	
				- 1	
				I I	
				1	
- V					

Performance Work Statement - Task Order 2

1 Objectives and Goals

Under the Phase I Systems Performance Demonstration (SPD) contract, the Contractor will provide Next-Gen Automated Detection Systems (NG-ADS) and all technical and operational support to enable the Government to test in an operationally relevant field environment in Task Order 2 to determine the adequacy of the NG-ADS for future procurement and deployment. The Government may also issue additional task orders for engineering enhancements to correct and validate issues identified during testing activities described below.

The objective of this effort is to demonstrate that the NG-ADS:

- · Conforms to the Gen-3 performance specification,
- Has a system performance with associated technologies that meet a minimum Technology Readiness Level (TRL) of 7, and
- Contains acceptable assays and uses reagents produced with adequate quality control procedures.

In support of these objectives, the Contactor shall provide ready-to-test NG-ADS units and the full range of support to include consumables, data management, operations and maintenance (O&M) support, and technical personnel to support the test activities described below. In particular, the Contractor shall:

- Manufacture and deliver ready-to-test NG-ADS units required for all testing. The NG-ADS units' configuration will be baselined at the Task Order 1 configuration, unless otherwise approved by DHS, and remain under configuration control by the Contractor. All NG-ADS units will be of the same configuration and from the same assembly line, except as otherwise noted herein. The number of spares required to support the testing activities is shown in Attachment 1 – List of Spare Parts.
 - (b) (4)
- Operate NG-ADS units in support of the tests, including replenishment of consumables and maintenance of the systems when necessary (unless noted otherwise).
- Establish a capability within the independent testing organization and operational test jurisdiction (specifically BioWatch Lab personnel and BioWatch Action Committee) to receive, interpret, and monitor the NG-ADS test results to evaluate the performance of the equipment.
- Collect data and provide reports (Reliability, Availability, Maintainability and Testability (RAM-T) and IT performance data.
- Provide engineering and configuration support.
- Ensure intellectual property and licensing rights are obtained, as appropriate, for commercial-off-the-shelf (COTS) products to allow DHS to operate the NG-ADS units during this Task Order.

1.1 Program Plan

The Contractor has developed a program schedule that meets DHS' Milestone requirements and schedule objectives (Attachment 2).

The Contractor shall meet the Task Order 2 technical Milestones as follows:

Milestone #3 – Successful completion of the Field Testing activities under Task
 Order 2 within the scheduled time frame.

1.2 Task Order 2

In support of the Task Order 2 field testing activities, the Contractor will provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in (b)(4)(b)(7)(F) and associated information technology (b)(4)(b)(7)(F) to support the field test, reliability, availability, maintainability, and testability (RAM-T) testing, and IT verification and validation. The Contractor will be responsible for providing equipment and technical support, including the O&M of the NG-ADS units during the course of the field test. This support will include supplying/replenishing all consumables, providing any required preventative maintenance, and corrective maintenance (fixing the system) should it break down during the course of the testing.

Tight configuration control will be used to ensure that all units will be of the same configuration for this testing. (b) (4)

All the NG-

ADS units will be manufactured on the same assembly line.

The Contractor will support the Task Order 2 efforts as described below. This will include providing the necessary NG-ADS units for each test, consumables, spare parts, training, test support, and maintenance support.

1.2.1 Resources

The Contractor shall (b)(4)(b)(7)(F) consumables and other supplies necessary to support the Task Order 2 testing. The Contractor will also setup a (b)(4)(b)(7)(F) to perform local repairs and store equipment, spares, and consumables during field testing. Since all testing will take place in Government designated field sites, the Contractor's support will be focused on providing the necessary NG-ADS units, spares, consumables, and personnel to conduct each test. The NG-ADS units will be prepared for the testing in the (b)(4)(b)(7)(F) The spare parts and consumables necessary to support the testing will also be stored and shipped from this facility and the (b)(4)(b)(7)(F)

1.2.2 Task Order 2 Subtasks

1.2.2.1 Task Order 2 Equipment Procurement and Fabrication

In preparation for Task Order 2 field testing, the Contractor will provide all necessary NG-ADS units, reagents, spare parts, tools, associated information technology, and support plans. This preparation will include the ordering of all material for the fabrication and checkout of the NG-ADS units, all reagents and consumables required to operate the units, and all spares and other support equipment required, including the use and maintenance of the $\frac{(b)(4)}{(b)(7)(F)}$ The Contractor will also establish a depot facility $\frac{(b)(7)(F)}{(b)(7)(F)}$ to

1/26/2011 2

support the installation, baseline calibration, operational field testing, RAM-T testing, and IT verification and validation (b) (4)

(b) (4)

The Contractor will procure all material and fabricate twelve (12) NG-ADS units plus spares (same configuration as described for Task Order 1) to support Task Order 2 field test activities. All NG-ADS units delivered for testing under the Phase I SPD contract will be manufactured on the same assembly line.

The Contractor will maintain supplies, consumables, and personnel adequate to keep the NG-ADS units operational 24/7 during Operational Environment Field Testing (not including down-time for maintenance, calibration, etc.) and to assist in providing failure analysis data as part of the field test. The Contractor will implement a Failure Reporting, Analysis and Corrective Actions System (FRACAS) to facilitate the capture of failure data during Baseline Calibration and the Operational Environment Field Testing. Failure analysis data will identify all observed problems by test unit / instrument, the sub-system at fault, the total time the system / sub-system was down and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The categories for subsystem at fault and associated subsystems will be agreed to prior to the start of testing. If the FRACAS data is maintained in a proprietary format, the FRACAS application must be provided, or the data must be converted to a common useable format such as Microsoft Excel.

The Contractor will procure all consumables required for testing activities performed under Task Order 2. The Contractor's plan for quality control of the reagents is described in the Quality Assurance Surveillance Plan (QASP) contained in Volume II—Management Proposal.

The Contractor will provide all spare components that are necessary to support Task Order 2 activities. The assessment of spare parts required to support Task Order 2 is provided in Attachment 1.

1.2.2.2 Jurisdictional Training and Coordination

The Contractor will provide eight (8) sets of equipment for signal receipt for use by various users to be specified by the Government. This equipment will be in the form of (b)(4)(b)(7)(E) used to monitor system operational status and test results as well as system and logistical management. (b) (4)



1/26/2011



1/26/2011





The Contractor will provide the Government will access to an electronic copy of a maintenance and operator manual(s) (draft or preliminary version acceptable) not later than 30 days before the start of Operational Environment Field Testing.

1.2.2.3 Detector Baseline Calibration for Field Test Start

After delivery of the twelve (12) NG-ADS units to the jurisdiction for Field Testing, the Contractor will be given not less than one (1) month to install, set-up and baseline the units at the operational testing sites identified by DHS. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies-Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist.

(b) (4)

b) (4)

At the end of the set up/baseline period, a review period lasting not longer than 1 week will occur. The Field Test will commence immediately following the review period. The NG-ADS units may continue to operate and be supported during the review period, as mutually agreed upon. Each NG-ADS will be co-located with other competitive autonomous biodetectors and (b)(4) (b)(7)(E) n both indoor and outdoor test environments. The Government will identify the site(s) two (2) months prior to unit delivery (a preliminary list of site(s) will be provided within 2 weeks after receipt of order), provide site prep prior to unit delivery (in accordance with the Contractor's specifications), provide jurisdiction coordination, and will provide security for the NG-ADS during the duration of the test. The Contractor will be responsible for the security of the NG-ADS enclosure (i.e., locked door to access interior of system). The jurisdiction depot (b)(4) (b)(7)(F) will be used during the installation and baseline testing.

The detector baseline calibration will begin four (4) months after receipt of order and will last up to one (1) month in duration. Prior to the installation, the contractor will provide

Material Safety Data Sheets (MSDS), as necessary, for common consumable items used by their biodetection systems for each consumable subject to spilling (i.e., each liquid), as well as any other common items which may generate disposal/environmental concern, such as batteries. The MSDS will be provided not later than two (2) months after receipt of order.

Detector Baseline Calibration and Review Period Support Details:



- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection. Unless otherwise required by the site manager, a Government escort will not be required to access the site whenever required by the Contractor.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.

The Contractor will provide site visit log information to DHS on a weekly basis during Baseline Calibration in an electronic format, which will capture the site arrival and departure times. Contractor personnel visiting site, and site visit activity.

1.2.2.4 Operational Environment Field Testing

The Contractor will support the operations and maintenance of the twelve (12) ready-to-test NG-ADS units in support of the Government's test objectives. The NG-ADS units will be split between indoor and outdoor locations based upon a deployment plan that will be developed by the Government. (b) (4)

(b) (4) (b) (4)

The Contractor will provide test labor for operational environment field testing of twelve (12) instruments in the jurisdiction beginning within one (1) week of the completion of Baseline Camprauon for up to ten (10) continuous weeks. This includes weekly Preventive Maintenance (PM) and as-needed Corrective Maintenance (CM).

Operational Environment Field Maintenance Support Details:

- PM work will be performed during first-shift (7 am to 5 pm) Monday—Saturday, or at other times if elected by the Contractor and coordinated with the TOC.
- CM work will be performed on an as-needed basis. The Contractor will be provided access to the systems 24 hour a day, 7 days a week. Units will be operational 24/7 (not including downtime for maintenance, calibration, etc.). CM will be performed as soon as reasonably possible to minimize field test disruption. The ability to respond and correct errors or faults will factor into the Achieved Availability assessment.
- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection.

1/26/2011 6

- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.
- · Remote fault isolation and corrective action are acceptable.

At the conclusion of the field test there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install, clean, remove, transport, and trained the twelve (12) biodetector units at a storage facility within the vicinity of as designated by the Government, and restore the site to the condition which it was in when installation started, except for modifications made by DHS or at DHS' direction as part of site prep. The Contractor will remove all equipment and materials originally provided by the Contractor, observing all applicable safety and hazardous materials management regulations and good operating practices.

The Contractor will provide site visit log information to DHS on a weekly basis during the post-test period in an electronic format, which will capture the site arrival and departure times. Contractor personnel visiting site, and site visit activity.

1.2.2.5 RAM-T Data Collection

The goal of the RAM-T Data Collection effort is to gather RAM-T data on the NG-ADS in an applicable operational environment. This effort will be conducted in applicable operational environments (i.e., indoor environment, outdoor environment) to evaluate and validate overall supportability of the system.

1.2.2.6 IT Signal Processing V&V and Report Generation

The goal of this activity is to conduct verification and validation on the proposed information technology (IT) system and gather data from the b(4) (b)(7)(E) o support independent Verification and Validation (V&V) of signal processing and report generation functions. The Contractor will provide equipment for signal receipt to up to eight (8) local public health and DHS personnel for this task (same personnel as identified and trained per paragraph 1.2.2.2). This equipment will include (b)(4) (b)(7)(E)used to monitor system test results. (b) (4)

The Contractor will provide DHS with information regarding how the IT system functions in order to establish a baseline of its current implementation. The Contractor will collaborate with DHS to develop the procedures that will be used by DHS to capture and validate the data generated by the system. Agreed-upon test data/reports will be generated in accordance with these procedures during the last two (2) weeks of

1/26/2011 7

Baseline Calibration and during the Operational Environment Field Testing. The Contractor will also participate with DHS in the selection of appropriate standards and conventions that will be applied to the V&V activities. Any findings or discrepancies between these agreed-upon standards and conventions and the existing IT system implementation will be documented and addressed in later phases of the program as appropriate.

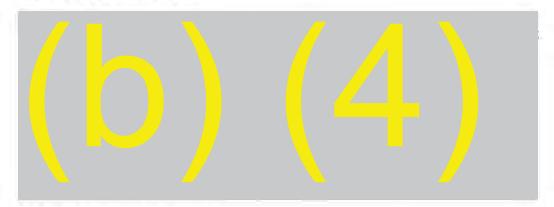
1.2.2.7 Field Test Extension Options

Prior to the start of field testing, the Government may exercise an option(s) to extend field testing beyond the initial ten (10) weeks for 30 to 60 days. These optional efforts shall be exercised before, or during, the 1-month Baseline Calibration effort of Section 1.2.2.3 of this PWS. The option(s) will be exercised via a funded modification to this Task Order.

If the field test is extended, the contractor shall provide the same level of base support as provided in the initial 10 weeks for Option 1 (a 30-day extension) and Option 2 (a 2nd 30-day extension). The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the extension period. The contractor shall also be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period.

1.3 Other Requirements

1.3.1 Program Reviews



1.3.2 Management Information

The Contractor shall submit Monthly Project Status Reports (MPSR) no later than the fifteenth workday after the reporting calendar month. Reports will include breakouts by Task Order and SOO Test Events. The Contractor shall provide an MPSR that includes the following elements:

- Project Cost by Task Order:
 - Budget at Completion (BAC)
 - o Actual Cost (AC)
 - o Accrued Cost (estimates)

- o Cost Variance (CV) Actuals vs. Budget
- Estimate at Complete (EAC)
 - o Estimate to Completion (ETC)
 - Cost Funds Status
- Performance/Schedule by Task Order and Test Event:
 - o Project Schedule
 - Overall Technical Performance Evaluation
 - Completion percentage of the Milestones and/or Deliverables
 - o Schedule Variance (SV)
 - Variance at Completion (VAC)
- Risk Management by Task Order and Test Event:
 - o Risk Reporting Matrix
 - o Risk Mitigation Worksheet

Current period values and cumulative values for data, variances, and forecasts will be provided in numerical format showing values and in graphical format showing trends. Any schedule variance on the critical path will be identified and its impact on subsequent milestones and the project cost and schedule quantified.

The Contractor shall also deliver a draft Program Management Plan and final Program Management Plan. The draft Project Management Plan will be submitted 15 days after a task order is received, with a final submittal reflecting Government input due 30 days after the task order is received. The Project Management Plan shall provide a detailed schedule, including a critical path analysis, along with a narrative discussing the salient issues affecting task execution in terms of needed technical inputs and analysis to meet cost, schedule, and performance in the task execution.

1.3.3 Technology Readiness Assessment

The Contractor shall provide adequate information to permit the Government to determine the TRL level of the NG-ADS technology throughout the course of the program.

1.3.4 Configuration Management



Once units are delivered for testing, all changes will be reviewed and approved by DHS

before they are implemented.

If the program implements modifications or changes that require additional characterization and system tests, the Contractor will provide the consumables and technical support for this effort. These changes will be subject to a contract modification in accordance with the contract's changes clause (FAR 52.243-2).

The Contractor shall implement drawing configuration management consistent with Task Order 1.

1.3.5 Occupational Health and Safety

Prior to delivery of the ready-to-test NG-ADS units, the Contractor shall self-certify that the units being delivered are safe to operate and that all known occupational safety and health concerns are appropriately mitigated.

1.3.6 Technical Exchange Meetings

The Contractor shall prepare for and support technical exchange meetings (TEM) as required to discuss technical issues and agree on an appropriate path forward.

1.4 Deliverables

The Contractor shall deliver the equipment, documentation and training listed in Table 1, Table 2, and Table 3, below. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies - Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist. DHS will provide acceptance or comments within 2 calendar weeks of submittal of all data deliverables. Comments and changes will be incorporated once into a single, final submittal. Final coordination of the training deliverables outlined in Table 3 will occur upon completion of the equipment deliverables outlined in Table 2.

Table 1 Program Deliverables

Description	Due
Monthly Project Status Report (MPSR)	NLT 15th of each month
Technical Exchange Meetings	1st TEM NLT 30 days ARO Subsequent meetings as required, not to exceed 1 meeting per month
Updated Project Management Plan	Draft 15 days ARO

1/26/2011

Description	Due			
	Final 30 days ARO			
Trip Reports	As needed			
Summary Subcontract Report	Oct 30 for period 10/1-9/30			
(b) (4)	(b) (4)			
RAM-T - IT Signal Processing V&V Report Generation	Upon the completion of IT V&V Testing			
Safety Assessment Report	Prior to delivery of NG ADS units			
Material Safety Data Sheets (MSDS)	2 months ARO			
Technology Readiness Assessment support materials	Concurrent with final report			
FRACAS summary report	At 14 day intervals, commencing 10 days after start of Operational Environment Field Test and ending 1 month after completion of Operational Environment Field Test; NOTE: During Field Testing, reports will be submitted to the Gen-3 OTA, not the Program Office.			
Complete FRACAS data set	With final FRACAS summary report			
Maintenance and Operator manual(s)	30 days prior to start of Operational Environment Field Test			
Site log, 1 for each system, during pre-test (Baseline Calibration) and post-test periods	Delivered weekly during pre-test and			

Table 2 Equipment Deliverables

Description	Due
Twelve (12) NG-ADS Units for (b)(4) (b)(7)(F)	(b) (4) ARO
Spares and consumables in support of Detector Baseline Calibration and Operational Environment Field Testing	(b) (4) ARO; certain consumables and spares may be delivered in multiple, time-staggered deliveries after the first delivery
Equipment for signal receipt at jurisdiction	Concurrent with the associated training class

Table 3 Training Deliverables

Description	Due
User Interface Training in the Field Testing Jurisdiction (b) (4)	(b) (4) after start of Detector Baseline Calibration
Technical Orientation Training support materials	(b) (4) after receipt of order

Common Archive Retrieval Training and	Prior to the start of Detector Baseline
associated materials	Calibration

1/26/2011 12

Attachment 1 - Task Order 2 Spares List

Baseline Scope Spares List



1/26/2011

1/26/2011

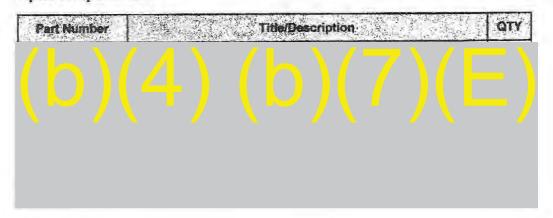


1/26/2011 15

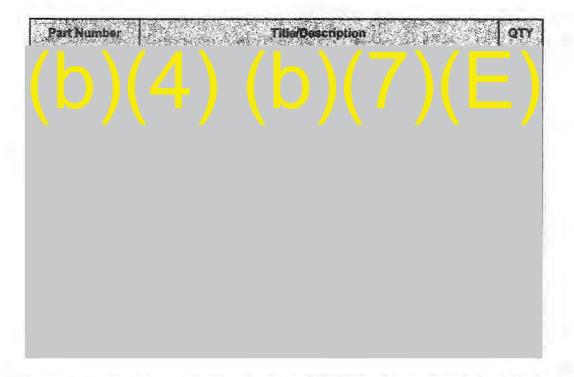
Option 1 Spares List



Option 2 Spares List

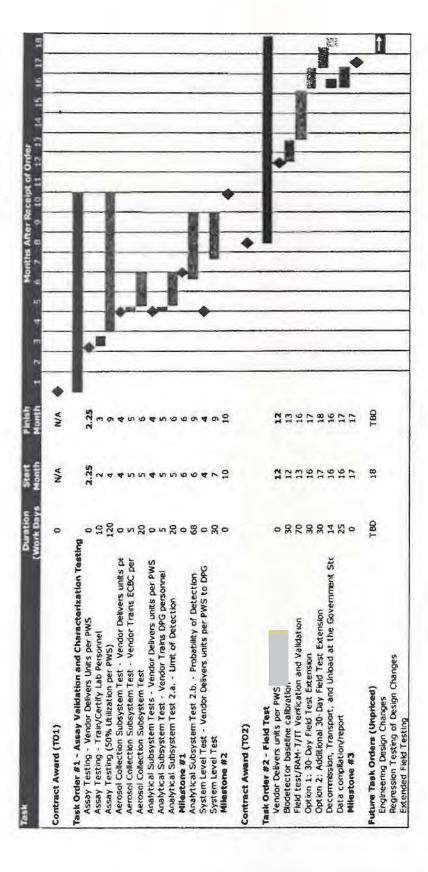


1/26/2011



NOTE: Baselines Scope Spares not utilized/consumed in support of Task Order 2 Field Test activities shall be available for utilization/consumption for Option 1 and Option 2 Field Test Extensions.

1/26/2011 17



Attachment 2 - DHS SPD Program Schedule



(b) (4)

AMENDME	ENT OF SOLICITATION/MOD	IFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES		
2. AMENDME	NT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REC	QUISITION/PURCHASE REQ. NO:	5. PROJECT NO. (If applicable)	
P00004		See Block 16C	ROHA	4-11-00067		
6. ISSUED BY	CC	DHS/OPO/OHA	7. AD	MINISTERED BY (If other than Item 6)	CODE DHS/OPO/OHA	
Office OHA Acq 245 Mur Buildin Washing 8. NAME AND NORTHRON	pt. of Homeland Second Procurement Operation Division ray Lane, SW g 410 represented by Address of Contractor (No.) P GRUMMAN SECURITY NEST NURSERY RD JM HEIGHTS MD 21090	rations street, county, State and ZIP Code) SYSTEMS LLC	Off OHA 245 Bui Was (x) 9A	Dept. of Homeland Seice of Procurement Opelacquisition Division Murray Lane, SW lding 410 hington DC 20528 AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDE SHQDC-10-D-00003 SHODC-10-J-00455	erations	
	Commission of the commission o		10	B. DATED (SEE ITEM 13)	MATTER AND	
CODE 10	46382050000	FACILITY CODE 11. THIS ITEM ONLY APPLIE		9/27/2010		
virtue of this to the solicit	s amendment you desire to change as tation and this amendment, and is recting and appropriation DATA (edule 13. THIS ITEM ONLY APPLIES: A. THIS CHANGE ORDER IS ISSUORDER NO. IN ITEM 10A.	n offer already submitted, such change seived prior to the opening hour and datif required) TO MODIFICATION OF CONTRACTS/6 TED PURSUANT TO: (Specify authority)	e may be made ate specified. ORDERS, IT M	ECIFIED MAY RESULT IN REJECTION OF by telegram or letter, provided each telegram of letter, provided each telegram of letter, provided each telegram of letter to letter the letter of letter than the l	m or letter makes reference DESCRIBED IN ITEM 14.	
X	C. THIS SUPPLEMENTAL AGREE	MENT IS ENTERED INTO PURSUAN				
	D. OTHER (Specify type of modifica	ation and authority)				
E. IMPORTAN	T: Contractor 🗀 is no	ot, [x] is required to sign this docum	nent and return	1 copies to the iss	uing office.	
DUNS Num The purp 0002 in in the a (Task Or now	nber: 104638205+00 cose of this modification of (b) (4) amount of (b) (4) cder 2 - Operationa (4)	cation is to realigned (4) (Funding for remainder of Tall Field Testing).	gn the a r additi ask Orde As a re	coccunting strings and conal tasks under Task r 2 base effort funding sult, the total cost of	funding from CLIN 2) and CLIN 0003 ng) to CLIN 0001	
Send sig	al cost of the task gned modification to per: 64418 DO/DPAS	。(b) (6)	conditi	ons remain unchanged. and (b) (6)		
Continue						
And the control of th				retofore changed, remains unchanged and i	The state of the s	
15A NAME AN		TRACTS		NAME AND TITLE OF CONTRACTING OF Tall Davis	-FILEK (Type or pnnt)	
	(6)	PRESENTATIVE 15C. DATE SIGN	NED 16B.	UNITED STATES OF AMERICA	16C. DATE SIGNED	
		2/15/1	1	(Signature of Contracting Officer)	2/15/11	
NSN 7540-01-	152-8070			(algebras of contracting critical)	STANDARD FORM 30 (REV. 10-83)	

NSN 7540-01-152-8070 Previous edition unusable STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE C	F
CONTINUATION SHEET	HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00004	2	2

NAME OF OFFEROR OR CONTRACTOR
NORTHROP GRUMMAN SECURITY SYSTEMS LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY (C)	(D)	UNIT PRICE (E)	AMOUNT (F)
(A)	(B)	(6)	(D)	(E)	(2)
	Discount Terms:				
	Delivery Location Code: DHS				
	Department of Homeland Security				
	245 Murray Lane		11.1		
	Bldg. 410		1 1	1	
	Washington DC 20528				
	FOB: Destination				
	Period of Performance: 09/27/2010 to 09/26/2011				
	Change Item 0001 to read as follows(amount shown is the obligated amount):				
0001	Task Order 2 - Operational Field Testing		14		(b) (4
	Task Order 2 Base Effort Estimated Cost:				
	Task Order 2 Base Effort Fixed Fee: (b) (4)		1		
	Task Order 2 Base Effort Total Price: \$8,437,715				
	Total Line Item Value (b) (4)				
	Accounting Info:				
	WMD0010-000-H9-13-50-02-000-05-00-0000-00-00-00		1 1	1	
	-GE-OE-25-76-000000	15	1 1		
	Funded: \$0.00	0		1	
	Accounting Info:			4	
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00-00		11	1	
	-GE-OE-25-76-000000		1 1	1	
	Funded: \$0.00		1 1	1	
	Accounting Info:				
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000		1 1	1	
	Funded: \$0.00		1 1	1	
	Accounting Info:		11 11	1	
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00		1 1	1	
	-GE-OE-25-76-000000	l,			
	Funded: (b) (4)			1	
	Accounting Info:		1 1	1	
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00		1 1	1	
	-GE-OE-25-76-000000		1 1	- 8	
	Funded: (b) (4)		1 1		
	Cancel Item 0002 in its entirety.				
	Cancel Item 0003 in its entirety.				
	cancer from 5005 in 115 entirety.				

AMENDMENT OF SOLICITATION/MODIFIC	CATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3 EFFECTIVE DATE	4. RI	QUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
P00005	02/25/2011			
6. ISSUED BY CODE	DHS/OPO/OHA	7.A	DMINISTERED BY (If other than Item 6)	CODE DHS/OPO/OHA
U.S. Dept. of Homeland Secur Office of Procurement Operat OHA Acquisition Division 245 Murray Lane, SW Building 410 Washington DC 20528	cions	Of OH 24 Bu Was	S. Dept. of Homeland Sefice of Procurement Ope A Acquisition Division Murray Lane, SW ilding 410 Chington DC 20528	
B. NAME AND ADDRESS OF CONTRACTOR (No., Street	f, county, State and ZIP Code)	(x) 9	A. AMENDMENT OF SOLICITATION NO.	
NORTHROP GRUMMAN SECURITY SY 1580 B WEST NURSERY RD LINTHICUM HEIGHTS MD 2109000			B. DATED (SEE ITEM 11)	
		X 1	DA MODIFICATION OF CONTRACT/ORDER SHQDC-10-D-00003	NO.
		1.	SHQDC-10-J-00455	
			DB. DATED (SEE ITEM 13)	
CODE 1046382050000	FACILITY CODE		09/27/2010	
	11. THIS ITEM ONLY APPLIES TO	ALC: N		
j The above numbered solicitation is amended as set to		-	- I Aller	tended. [] is not extended.
CHECK ONE A. THIS CHANGE ORDER IS ISSUED PORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority) TI	HE CHAN	GES SET FORTH IN ITEM 14 ARE MADE IN	THE CONTRACT
appropriation date, etc.) SET FORTH	IN ITEM 14, PURSUANT TO THE AL	THORIT	DMINISTRATIVE CHANGES (such as change Y OF FAR 43.103(b).	s in paying office,
C. THIS SUPPLEMENTAL AGREEMEN	TIS ENTERED INTO PURSUANT TO	AUTHO	RITY OF:	
X FAR 52.243-2 Changes	- Cost Reimburseme	nt		
D. OTHER (Specify type of modification	and authority)	1		
			1	
E.IMPORTANT: Contractor [] is not. 14. DESCRIPTION OF AMENDMENT/MODIFICATION (DUNS Number: 104638205+0000 The purpose of this task order	er modification is	including	solicitation/contract subject matter where feasi	sible.)
Sebruary 17, 2011, at no addi	tional cost to the	Gove	rnment.	
all other task order terms ar	nd conditions remai	n unc	hanged.	
	h) (6)		(1-) (0)	
Send signed modification to			and (D) (6)	
MODELS Ration NOME				
2000(1) 10 Mei 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1	2010 to 09/26/2011			
2000(1) 10 Mei 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1 전 1	/2010 to 09/26/2011			
[HONER OUR MEMBERS LINES] [HONER MINE LINES HOUSE HER HONER	/2010 to 09/26/2011			
eriod of Performance: 09/27/		04		
eriod of Performance: 09/27/		-		
eriod of Performance: 09/27/ Except as provided herein, all terms and conditions of the	document referenced in Item 9A or 1	16A.	NAME AND TITLE OF CONTRACTING OFF	
		16A. Ca:		

Previous edition unusable

STANDARD FORM 30 (REV 10-88) Prescribed by GSA FAR (48 CFR) 53,243

ENGINEERING CHANGE PROPO)SAI	(ECP)	1. DATE (YYMMD	D) FORM APPROVED OMB NO 0704-0188
		` ,	110217	
Public reporting burden for this collection of information is estimated to average 2 hou existing data sources, gathering and maintaining the data needed, and completing and burden estimate or any other aspect of this collection of information, including sugges Headquarters Services, Directorate for Information Operations and Reports, 1215 Jeff Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washin PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER (d reviewing estions for re ferson Davis	the collection of information of the collection of the burden, to self-ghway, Suite 1204, 10503	ation. Send comments regarding Department of Defense, Washin Arlington, VA 22202-4302, and to	this gton o the
THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CO 2 OF THIS FORM.	ONTRACT.	PROCURING ACT	ETURN COMPLETED FOR IVITY NUMBER LISTED IN	ITEM NA
4. ORIGINATOR b. ADDRESS (Street (a. TYPED NAME (First, Middle Initial, Last)	City. State.	. Zin Code\	5. CLASS OF ECP	
NORTHROP GRUMMAN		')(<mark> -</mark>)	6. JUST. CODE D	7. PRIORITY U
8. ECP DESIGNATION			9. BASELINE AFF	
a. MODEL/TYPE b. CAGE CODE c. SYSTEM DESIGNAT NG-ADS			FUNCTIONAL ALLOCATED	
ECP-SPD-006	e. TYF	PE f. REV NA	10. OTHER SYS/C	ONFIG. ITEMS AFFECTED NO
11. SPECIFICATIONS AFFECTED CAGE Code Specification/Document No	LOw. I		NGS AFFECTED	
a SYSTEM	Rev :	$\frac{\text{SCN}}{\text{(b)}(4)}$	(5)(7)(E)	lumber Rev NOR D NA
b DEVELOPMENT c PRODUCT				
13. TITLE OF CHANGE	<u> </u>			
Aerosol collector heater control changes and MSVI frame materia	al change	e.		
14. CONTRACT NO. AND LINE ITEM		ROCURING CONTR		
HSHQDC-10-D-00003 HSHQDC-10-J-00455	a. NAI		itial, Last) Carla Davis	NUMBER (202) 254-6349
16. CONFIGURATION ITEM NOMENCLATURE	B. 001		T. TELEFHONE	17. IN PRODUCTION
NA 18. ALL LOWER LEVEL ITEMS AFFECTED				YES NO
a. NOMENCLATURE NA		b. PART NO. NA	c. NSN N	Λ
19. DESCRIPTION OF CHANGE This FCP covers the following changes:		D. I AITI NO. NA	C. NON N	<u> </u>
Further details can be found in Attachment 1				
20. NEED FOR CHANGE	7)	(E	\	/ 7 \/ 厂 \
		\) (D)	(/)(F)
Further details can be found in Attachment 1		\ —.		(/)(୮)
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA	- 		PRODUCTION DELIVERY	SCHEDULE
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER		22. EFFECT ON NO IMPACT b. SHIP/VEHICLI	PRODUCTION DELIVERY	SCHEDULE
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA 23. RETROFIT		22. EFFECT ON NO IMPACT b. SHIP/VEHICLI NA	E CLASS AFFECTED OR SHIP/VEHICLE NUMBE	
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA 23. RETROFIT B. RECOMMENDED ITEM EFFECTIVITY (b) (4) (b) (7) (E) KIT DELIVERY SCHEDULE 24. ESTIMATED COSTS/SAVINGS UNDER CONTRACT		b. SHIPWEHICLI NA d. LOCATIONS (urisdic 25. ESTIMATED	E CLASS AFFECTED OR SHIP/VEHICLE NUMBE	RS AFFECTED
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA 23. RETROFIT B. RECOMMENDED ITEM EFFECTIVITY D)(4)(D)(7)(E) KIT DELIVERY SCHEDULE 24. ESTIMATED COSTS/SAVINGS UNDER CONTRACT NO ESTIMATED COST IMPACT 26. SUBMITTING ACTIVITY a. AUTHORIZED SIGNATURE	17/11	b. SHIP/VEHICLI NA d. OCATIONS Gurisdic 25. ESTIMATED NA b. TITLE	E CLASS AFFECTED OR SHIP/VEHICLE NUMBE	RS AFFECTED
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA 23. RETROFIT 24. BECOMMENDED ITEM EFFECTIVITY 25. D(4) (b) (7) (E) 26. SUBMITTING ACTIVITY 27. APPROVAL/DISAPPROVAL	17/11	b. SHIP/VEHICLI NA d. OCATIONS Gurisdic 25. ESTIMATED NA b. TITLE	E CLASS AFFECTED OR SHIP/VEHICLE NUMBE ction NET TOTAL COSTS/SAVIN	RS AFFECTED
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA 23. RETROFIT BECOMMENDED ITEM EFFECTIVITY D)(4) (D)(7)(E) KIT DELIVERY SCHEDULE 24. ESTIMATED COSTS/SAVINGS UNDER CONTRACT NO ESTIMATED COST IMPACT 26. SUBMITTING ACTIVITY a. AUTHORIZED SIGNATURE	17/11	b. SHIP/VEHICLI NA d. OCATIONS Gurisdic 25. ESTIMATED NA b. TITLE	E CLASS AFFECTED OR SHIP/VEHICLE NUMBE Stion NET TOTAL COSTS/SAVIN REPRESENTATIVE C. CLASS II CONCUR IN CLASSIFICATION	RS AFFECTED JGS DO NOT CONCUR IN CLASSIFICATION OF
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA 23. RETROFIT 24. PRODUMENDED ITEM EFFECTIVITY 25. PROCOMMENDED ITEM EFFECTIVITY 26. SUBMITTING ACTIVITY 27. APPROVAL/DISAPPROVAL 28. CLASS I 29. APPROVAL 20. DISAPPROVAL 21. APPROVAL 22. APPROVAL 23. APPROVAL 24. LASS II 25. APPROVAL 26. SUBMITTING ACTIVITY 27. APPROVAL 28. CLASS II 29. APPROVAL 20. DISAPPROVAL		D. SHIP/VEHICLI NA d. LOCATIONS (urisdic 25. ESTIMATED NA b. TITLE CONTRACTS F	E CLASS AFFECTED DR SHIP/VEHICLE NUMBE ction NET TOTAL COSTS/SAVIN REPRESENTATIVE C. CLASS II CONCUR IN	RS AFFECTED JGS DO NOT CONCUR IN
21. PRODUCTION EFFECTIVITY BY SERIAL NUMBER NA 23. RETROFIT 2 RECOMMENDED ITEM EFFECTIVITY b) (4) (b) (7) (E) KIT DELIVERY SCHEDULE 24. ESTIMATED COSTS/SAVINGS UNDER CONTRACT NO ESTIMATED COST IMPACT 26. SUBMITTING ACTIVITY a. AUTHORIZED SIGNATURE 27. APPROVAL/DISAPPROVAL a. CLASS I APPROVAL APPROVAL APPROVAL APPROVAL APPROVAL APPROVAL APPROVED	e. SIG	22. EFFECT ON NO IMPACT b. SHIP/VEHICLI NA d. OCATIONS Ourisdic 25. ESTIMATED NA b. TITLE CONTRACTS F	E CLASS AFFECTED OR SHIP/VEHICLE NUMBE Stion NET TOTAL COSTS/SAVIN REPRESENTATIVE C. CLASS II CONCUR IN CLASSIFICATION	RS AFFECTED IGS DO NOT CONCUR IN CLASSIFICATION OF CHANGE

NG-ADS (b)(4) (b)(7)(E)

Overview

Description

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	1. CONTRACT ID CODE		PAGE OF PAGES
				1 3
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REC	1. NO. 5. PF	ROJECT NO (If applicable)
P00006 6. ISSUED BY CODE	See Block 16C	7. ADMINISTERED BY (if other the	an Item 6) COD	F Tour Jone Jour
U.S. Dept. of Homeland Secus Office of Procurement Operation OHA Acquisition Division 245 Murray Lane, SW Building 410 Washington DC 20528	rity	U.S. Dept. of Homoffice of Procures OHA Acquisition D 245 Murray Lane, Building 410 Washington DC 205	eland Securit ment Operation ivision SW	ty
8. NAME AND ADDRESS OF CONTRACTOR (No., MYN	it, county, State and ZIP Code)	(x) SA AMENDMENT OF SOLICIT	ATION NO	
NORTHROP GRUMMAN SECURITY SY 1580 B WEST NURSERY RD LINTHICUM HEIGHTS MD 2109000		9B DATED (SEE ITEM 11) 10A MODIFICATION OF CON HSHQDC-10-D-000(HSHQDC-10-J-0045) 10B DATED (SEE ITEM 13)	03	
CODE 1046382050000	FACILITY CODE	09/27/2010		
	11. THIS ITEM ONLY APPLIES	TO AMENDMENTS OF SOLICITATIONS		
CHECK ONE A THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	er already submitted, such change mad prior to the opening hour and date a quired) RODIFICATION OF CONTRACTS/ORI PURSUANT TO: (Specify authority) CCT/ORDER IS MODIFIED TO REFLE H IN ITEM 14, PURSUANT TO THE /	ay be made by telegram or letter, provide specified. DERS. IT MODIFIES THE CONTRACT/O THE CHANGES SET FORTH IN ITEM 1- ECT THE ADMINISTRATIVE CHANGES AUTHORITY OF FAR 43.103(b).	d each telegram or letter RDER NO. AS DESCRIB ARE MADE IN THE CO	SED IN ITEM 14.
D. OTHER (Specify type of modification	and authority)			
		randrature 1 c	opies to the issuing office	***************************************
EIMPORTANT: Commador Lisnon. 14. DESCRIPTION OF AMENDMENTMODIFICATION DUNS Number: 104638205+0000 The purpose of this modificated follows:		s, including solicitation/contract subject n	natter where feasible.)	
1. Realign the accounting s in the amount of () (4) result, the total obligated 2. Note that ECP-SPD-004 wa HSHQDC-10-J-00455. ECP-SPD-	to CLIN 0001 (Tas amount of CLIN 000 s erroneously inco	k Order 2 - Operation 1 is now \$9,310,359.	nal Field Tes 00. tion # P00002	sting). As a
Continued	001 40044444			
Except as provided herein, all terms and conditions of the	ne document referenced in Rem 9A or	r 10A, as heretofore changed, remains un	schanged and in full force	a and effect.
15a NAME AND TITLE DE SIGNER (Type or print) (ONTR	ACTS REPRESENTA	16A NAME AND TITLE OF CON	TRACTING OFFICER (7	ype or print)
(b) (6)	3/17/11		٠. حت	16C. DATE SIGNED
Previous edition unusable			STANDA Prescribi	ARD FORM 30 (REV/10-83) ad by GSA / CFR) 53.243

	REFERENCE NO. OF C	ENT BEING CONTINUED	PAGE ()F
CONTINUATION SHEET	HSHQDC-10-D-000	03/HSHQDC-10-J-00455/P00006	2	3

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY U	D)	UNIT PRICE (E)	AMOUNT (F)
	The total obligated amount of the task order, terms, and conditions remain unchanged. AAP Number: 64418 DO/DPAS Rating: NONE Discount Terms: Net 30 Delivery Location Code: DHS Department of Homeland Security 245 Murray Lane Bldg. 410 Washington DC 20528				
	FOB: Destination Period of Performance: 09/27/2010 to 09/26/2011 Change Item 0001 to read as follows(amount shown				
0001	Task Order 2 - Operational Field Testing Cost is increased by (b) (4) from (b) (4) to (b) (4) Fixed fee is increased by (b) (4) from (b) (4) Total obligated amount is increased by (b) (4) Total Line Item Value\$9,310,359.00				(b) (4)
	Accounting Info: WMD0010-000-H9-13-50-02-000-05-00-0000-00-00-00-00-00-00-00-00-				
	Funded: \$0.00 Accounting Info: WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00 -GE-0E-25-76-000000 Funded: \$0.00 Accounting Info: WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00 -GE-0E-25-76-000000 Funded: \$0.00				
	Accounting Info: WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00 -GE-0E-25-76-000000 Funded: (b) (4) Continued				

	REFERENCE NO. OF D		PAGE C)F
CONTINUATION SHEET	HSHQDC-10-D-000	03/HSHQDC-10-J-00455/P00006	3	3

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	E .	(D)	(E)	(F)
	Change Item 0001A to read as follows(amount shown				
	is the obligated amount):				
001A	Option 1: 30-Day Extension				(b) (4)
	Cost is decreased by $\binom{0}{0}\binom{4}{4}$ from $\binom{0}{0}\binom{4}{4}$ to \$0.				\ / \ /
	Fixed fee is decreased by $(b)(4)$ from $(b)(4)$ to				
	Total obligated amount is decreased by (b) (4)				
	from (b) (4) tc (b) (4)				
	Total Line Item Valu(b) (4)				
	Total Bine Teem Fall				
	Delivery: 30 Days After Award				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00 -GE-0E-25-76-000000				
	Funded: (b) (4)				
	Award Distribution:			ļ	
	OHAprocurements@dhs.gov				
	Payment Office:				
	Department of Homeland Security				
	Burlington Finance Center				
	P.O. Box 1000 Williston, VT 05495-1000				
	Attn: Office of Health Affairs (OHA)				
	Fax (802-288-7658)				
	E-mail: OHA.invoice.consolidation@dhs.gov				
	ALC: 70-03-1513 TIN: 26-1623625				
	Dun: 827414181				
	FY Appropriated: FY10				
	Appropriation Title and Year(s): Two year OHA program funds				
	Treasury Account Symbol (TAS): 700117			1	
	Treasury Appropriation Fund Symbol (TAFS):				
	700/100117 Amount: (b) (4)				
	Amount.				
I				1	

AMENDMI	ENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE	P	1 24
2. AMENDME	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJ	JECT NO. (If applicable)
P00007		06/23/2011				
6. ISSUED B	Y CODE	DHS/OPO/OHA	7. ADN	MINISTERED BY (If other than Item 6)	CODE	DHS/OPO/OHA
Office OHA Acc 245 Mur Buildir Washing	ept. of Homeland Secur of Procurement Operat quisition Division rray Lane, SW ng 410 gton DC 20528 D ADDRESS OF CONTRACTOR (No., street) OP GRUMMAN SECURITY SY	t, county, State and ZIP Code)	Off: OHA 245 Bui Wash	Dept. of Homeland Sice of Procurement Op Acquisition Division Murray Lane, SW lding 410 nington DC 20528 AMENDMENT OF SOLICITATION NO.	eration	
	WEST NURSERY RD CUM HEIGHTS MD 2109000	00		DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDE	EP NO	
			HS	SHQDC-10-D-00003 SHQDC-10-J-00455	IN NO.	
	and the desired the second second	Andrew Control of the		B. DATED (SEE ITEM 13)		
CODE 1	046382050000	FACILITY CODE 11. THIS ITEM ONLY APPLIES		9/27/2010		
THE PLAC virtue of th to the solic		OFFERS PRIOR TO THE HOUR AI er already submitted, such change n d prior to the opening hour and date quired)	ND DATE SPI nay be made to e specified.	ECIFIED MAY RESULT IN REJECTION C	em or letter ma	akes reference
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED	PURSUANT TO: (Specify authority)	THE CHANG	GES SET FORTH IN ITEM 14 ARE MADE	IN THE CON	TRACT
				MINISTRATIVE CHANGES (such as char OF FAR 43.103(b).		
	C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT	TO AUTHOR	ITY OF:		
X	52.243-2 Changes - C	Cost-Reimbursement				
	D. OTHER (Specify type of modification	and authority)				
E. IMPORTA	NT: Contractor ☐ is not,	is required to sign this docume	ent and return	1 copies to the is	ssuing office,	
14. DESCRI	PTION OF AMENDMENT/MODIFICATION umber: 104638205+0000	(Organized by UCF section heading	gs, including :	solicitation/contract subject matter where t		Dhaca T
	rpose of this modification of the field testing on the name of the field testing of the field	four (4) NG-ADS	units 1	ocated at $(D)(4)(D)(4)$	7)(F)	Zilabe 1
l. Tra facilit	ansport all equipment ty in (D)(4) (D)(7)(F	and spares in the	curren	tly leased depot faci	lity to	an NGSS
3. Cor	ntinue depot support;					
	ied	or a construction of the c		estatasa abanand ramaina unabangad ana	t in full force a	nd effect
Except as pr	rovided herein, all terms and conditions of t	he document referenced in Item 9A	or tua, as he	NAME AND TITLE OF CONTRACTING O	OFFICER (Typ	ne or print)
(b)	(6) LOUTON	icts Redresenta	THE	cla Davis		
752-V-C122	100	15C. DATE SIGNI	Latino.	UNITED STATES OF AMERICA		16C. DATE SIGNED
		6/23/11		(Signature of Contracting Officer)	CTANDAS	G/28/11 D FORM 3g (REV. 19-83)
Previous edi	ition unusable				Prescribed FAR (48 CF	by GSA /

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00007
 2
 24

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY	1 1	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	4. Continue FRACAS collection and RAM-T reports.				
	This additional testing shall be performed in				
	accordance with the updated Performance Work				
	Statement (PWS) dated 6/22/2011 (attached, 19 pages).				
	The estimated cost for additional testing and				
	support through September 26, 2011 is (4)				
	according to proposal dated 6/22/2011 (NGSS				
	Letter No.: 2011-06-22 SPD Biowatch-0121, attached, 2 pages).				
	There is sufficient funding already obligated on this Task Order to continue the testing through				
	September 26, 2011. As such, the extension of				
	the testing period and additional support shall be provided at no additional cost to the				
	Government.				
	Testing on the four (4) aforementioned units may				
	be futher extended beyond September 26, 2011.				
	The Government will make this determination and notify the Contractor no later than September 1,				
	2011.				
	All other Task Order terms remain unchanged.				
	AAP Number: 64418 DO/DPAS Rating: NONE				
	Discount Terms: Net 30				
	Delivery Location Code: DHS				
	Department of Homeland Security 245 Murray Lane				
	Bldg. 410				
	Washington DC 20528				
	FOB: Destination				
	Period of Performance: 09/27/2010 to 09/26/2011				
	Change Item 0001 to read as follows(amount shown				
	is the obligated amount):				/1- \ /
0001					(D) $(2$
	Total Line Item Value\$9,310,359.00				
	Accounting Info:				
	WMD0010-000-H9-13-50-02-000-05-00-0000-00-00-00 -GE-0E-25-76-00000				
	Funded: (6) (4)				
	Continue				
y 7540_01_152_					

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00007
 3
 24

NAME OF OFFEROR OR CONTRACTOR

	SUPPLIES/SERVICES	QUANTITY	1	UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
	Accounting Info:				
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00				
	-GE-OE-25-76-00000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-00000				
	Funded: \$0.00				
	Award Distribution:				
	OHAprocurements@dhs.gov				
	Payment Office:				
	Department of Homeland Security				
	Burlington Finance Center				
	P.O. Box 1000				
	Williston, VT 05495-1000				
	Attn: Office of Health Affairs (OHA)				
	Fax (802-288-7658)				
	E-mail: OHA.invoice.consolidation@dhs.gov				
	ALC: 70-03-1513				
	TIN: 26-1623625				
	Dun: 827414181	:			
	FY Appropriated: FY10				
	Appropriation Title and Year(s): Two year OHA				
	program funds				
	Treasury Account Symbol (TAS): 700117				
	Treasury Appropriation Fund Symbol (TAFS):				
	700/100117				
	Amount: (h) (4)				
	Amount. (D) (4)				
- 1			ıl		

Performance Work Statement - Task Order 2

1 Objectives and Goals

Under the Phase I Systems Performance Demonstration (SPD) contract, the Contractor will provide Next-Gen Automated Detection Systems (NG-ADS) and all technical and operational support to enable the Government to test in an operationally relevant field environment in Task Order 2 to determine the adequacy of the NG-ADS for future procurement and deployment. The Government may also issue additional task orders for engineering enhancements to correct and validate issues identified during testing activities described below.

The objective of this effort is to demonstrate that the NG-ADS:

- Conforms to the Gen-3 performance specification,
- Has a system performance with associated technologies that meet a minimum Technology Readiness Level (TRL) of 7, and
- Contains acceptable assays and uses reagents produced with adequate quality control procedures.

In support of these objectives, the Contactor shall provide ready-to-test NG-ADS units and the full range of support to include consumables, data management, operations and maintenance (O&M) support, and technical personnel to support the test activities described below. In particular, the Contractor shall:

- Manufacture and deliver ready-to-test NG-ADS units required for all testing. The NG-ADS units' configuration will be baselined at the Task Order 1 configuration, unless otherwise approved by DHS, and remain under configuration control by the Contractor. All NG-ADS units will be of the same configuration and from the same assembly line, except as otherwise noted herein. The number of spares required to support the testing activities is shown in Attachment 1 – List of Spare Parts.
 - (b) (4)
- Operate NG-ADS units in support of the tests, including replenishment of consumables and maintenance of the systems when necessary (unless noted otherwise).
- Establish a capability within the independent testing organization and operational test jurisdiction (specifically BioWatch Lab personnel and BioWatch Action Committee) to receive, interpret, and monitor the NG-ADS test results to evaluate the performance of the equipment.
- Collect data and provide reports (Reliability, Availability, Maintainability and Testability (RAM-T) and IT performance data.
- Provide engineering and configuration support.
- Ensure intellectual property and licensing rights are obtained, as appropriate, for commercial-off-the-shelf (COTS) products to allow DHS to operate the NG-ADS units during this Task Order.

1.1 Program Plan

The Contractor has developed a program schedule that meets DHS' Milestone requirements and schedule objectives (Attachment 2).

The Contractor shall meet the Task Order 2 technical Milestones as follows:

Milestone #3 – Successful completion of the Field Testing activities under Task
 Order 2 within the scheduled time frame.

1.2 Task Order 2

In support of the Task Order 2 field testing activities, the Contractor will provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in and associated information technology (b)(4)(b)(7)(F) to support the field test, reliability, availability, maintainability, and testability (RAM-T) testing, and IT verification and validation. The Contractor will be responsible for providing equipment and technical support, including the O&M of the NG-ADS units during the course of the field test. This support will include supplying/replenishing all consumables, providing any required preventative maintenance, and corrective maintenance (fixing the system) should it break down during the course of the testing.

Tight configuration control will be used to ensure that all units will be of the same configuration for this testing. (b) (4)

All the NG-

ADS units will be manufactured on the same assembly line.

The Contractor will support the Task Order 2 efforts as described below. This will include providing the necessary NG-ADS units for each test, consumables, spare parts, training, test support, and maintenance support.

1.2.1 Resources

The Contractor shall (b)(4)(b)(7)(F) consumables and other supplies necessary to support the Task Order 2 testing. The Contractor will also setup (b)(4)(b)(7)(F)

to perform local repairs and store equipment, spares, and consumables during field testing. Since all testing will take place in Government designated field sites, the Contractor's support will be focused on providing the necessary NG-ADS units, spares, consumables, and personnel to conduct each test. The NG-ADS units will be prepared for the testing in the (b)(4)(b)(7)(F)

The spare parts and consumables necessary to support the testing will also be stored and shipped from this facility and the (b)(4)(b)(7)(F)

1.2.2 Task Order 2 Subtasks

1.2.2.1 Task Order 2 Equipment Procurement and Fabrication

In preparation for Task Order 2 field testing, the Contractor will provide all necessary NG-ADS units, reagents, spare parts, tools, associated information technology, and support plans. This preparation will include the ordering of all material for the fabrication and checkout of the NG-ADS units, all reagents and consumables required to operate the units, and all spares and other support equipment required, including the use and maintenance of the (b)(4)(b)(7)(F)

The Contractor will also establish one or more depot facilities (b)(4)(b)(7)(F)

n or near

to support the installation, baseline calibration, operational field testing, RAM-T testing, IT verification and validation, and limited operational test extension. The

The Contractor will procure all material and fabricate twelve (12) NG-ADS units plus spares (same configuration as described for Task Order 1) to support Task Order 2 field test activities. All NG-ADS units delivered for testing under the Phase I SPD contract will be manufactured on the same assembly line.

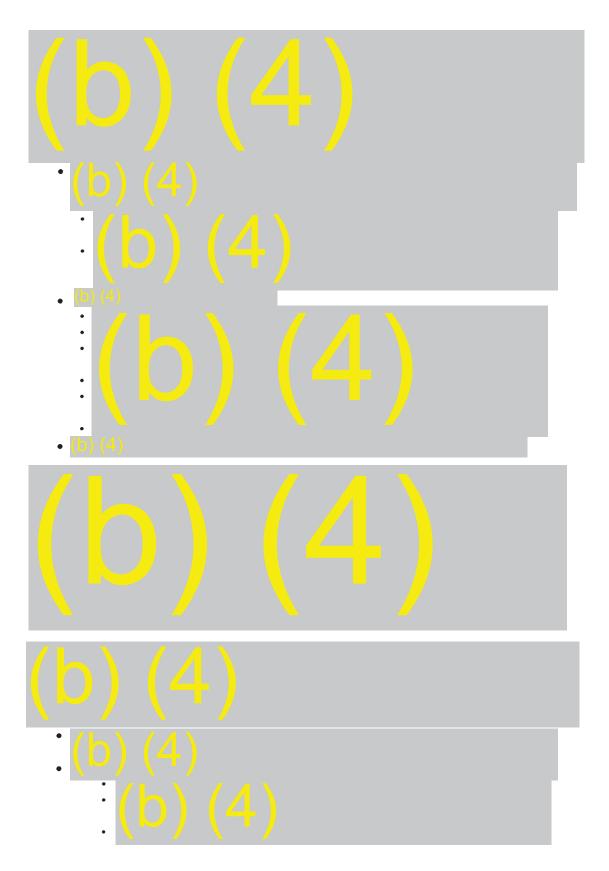
The Contractor will maintain supplies, consumables, and personnel adequate to keep the NG-ADS units operational 24/7 during Operational Environment Field Testing (not including down-time for maintenance, calibration, etc.) and to assist in providing failure analysis data as part of the field test. The Contractor will implement a Failure Reporting, Analysis and Corrective Actions System (FRACAS) to facilitate the capture of failure data during Baseline Calibration and the Operational Environment Field Testing. Failure analysis data will identify all observed problems by test unit / instrument, the sub-system at fault, the total time the system / sub-system was down and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The categories for subsystem at fault and associated subsystems will be agreed to prior to the start of testing. If the FRACAS data is maintained in a proprietary format, the FRACAS application must be provided, or the data must be converted to a common useable format such as Microsoft Excel.

The Contractor will procure all consumables required for testing activities performed under Task Order 2. The Contractor's plan for quality control of the reagents is described in the Quality Assurance Surveillance Plan (QASP) contained in Volume II—Management Proposal.

The Contractor will provide all spare components that are necessary to support Task Order 2 activities. The assessment of spare parts required to support Task Order 2 is provided in Attachment 1.

1.2.2.2 Jurisdictional Training and Coordination

The Contractor will provide eight (8) sets of equipment for signal receipt for use by various users to be specified by the Government. This equipment will be in the form of b)(4)(b)(7)(E) used to monitor system operational status and test results as well as system and logistical management. (b) (4)







The Contractor will provide the Government will access to an electronic copy of a maintenance and operator manual(s) (draft or preliminary version acceptable) not later than 30 days before the start of Operational Environment Field Testing.

1.2.2.3 Detector Baseline Calibration for Field Test Start

After delivery of the twelve (12) NG-ADS units to the jurisdiction for Field Testing, the Contractor will be given not less than one (1) month to install, set-up and baseline the units at the operational testing sites identified by DHS. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies-Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist.



up/paseline period, a review period lasting not longer than 1 week will occur. The Field Test will commence immediately following the review period. The NG-ADS units may continue to operate and be supported during the review period, as mutually agreed upon. Each NG-ADS will be co-located with other competitive autonomous biodetectors and a bio(4) (b)(7)(E) in both indoor and outdoor test environments. The Government will identify the site(s) two (2) months prior to unit delivery (a preliminary list of site(s) will be provided within 2 weeks after receipt of order), provide site prep prior to unit delivery (in accordance with the Contractor's specifications), provide jurisdiction coordination, and will provide security for the NG-ADS during the duration of the test. The Contractor will be responsible for the security of the NG-ADS enclosure (i.e. locked door to access interior of system). The jurisdiction deport

The detector baseline calibration will begin four (4) months after receipt of order and will last up to one (1) month in duration. Prior to the installation, the contractor will provide

Material Safety Data Sheets (MSDS), as necessary, for common consumable items used by their biodetection systems for each consumable subject to spilling (i.e, each liquid), as well as any other common items which may generate disposal/environmental concern, such as batteries. The MSDS will be provided not later than two (2) months after receipt of order.

Detector Baseline Calibration and Review Period Support Details:

- (b) (4)
- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection. Unless otherwise required by the site manager, a Government escort will not be required to access the site whenever required by the Contractor.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.

The Contractor will provide site visit log information to DHS on a weekly basis during Baseline Calibration in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.4 Operational Environment Field Testing

The Contractor will support the operations and maintenance of the twelve (12) ready-to-test NG-ADS units in support of the Government's test objectives. The NG-ADS units will be split between indoor and outdoor locations based upon a deployment plan that will be developed by the Government (b) (4)

The Contractor will provide test labor for operational environment field testing of twelve (12) instruments in the urisdiction beginning within one (1) week of the completion of Baseline construction for up to ten (10) continuous weeks. This includes weekly Preventive Maintenance (PM) and as-needed Corrective Maintenance (CM).

Operational Environment Field Maintenance Support Details:



 The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection.

- All system maintenance will be performed by the Contractor. DHS and other
 parties will not attempt maintenance on the units without NGSS involvement.
- (b) (4)

At the conclusion of the field test there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install eight (8) biodetector units from field sites and restore the sites to the condition which they were in when installation started, except for modifications made by DHS or at DHS' direction as part of site prep. The Contractor will remove all equipment and materials originally provided by the Contractor at each site, observing all applicable safety and hazardous materials management regulations and good operating practices. A minority of the eight (8) un-installed NG-ADS units will be kept a (b)(4)(b)(7)(F) and the remaining units will be returned to (b)(4)(b)(7)(F)

The Contractor will provide site visit log information to DHS on a weekly basis during the two week post-test period in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.5 RAM-T Data Collection

The goal of the RAM-T Data Collection effort is to gather RAM-T data on the NG-ADS in an applicable operational environment. This effort will be conducted in applicable operational environments (i.e., indoor environment, outdoor environment) to evaluate and validate overall supportability of the system.



1.2.2.6 IT Signal Processing V&V and Report Generation

The goal of this activity is to conduct verification and validation on the proposed information technology (IT) system and gather data from the (b)(4) (b)(7)(E) o support independent Verification and Validation (V&V) of signal processing and report generation functions. The Contractor will provide equipment for signal receipt to up to eight (8) local public health and DHS personnel for this task (same personnel as identified and trained per paragraph 1.2.2.2). This equipment will include (b)(4) (b)(7)(E) used to monitor system test results.

The Contractor will provide DHS with information regarding how the IT system functions in order to establish a baseline of its current implementation. The Contractor will collaborate with DHS to develop the procedures that will be used by DHS to capture and

validate the data generated by the system. Agreed-upon test data/reports will be generated in accordance with these procedures during the last two (2) weeks of Baseline Calibration and during the Operational Environment Field Testing. The Contractor will also participate with DHS in the selection of appropriate standards and conventions that will be applied to the V&V activities. Any findings or discrepancies between these agreed-upon standards and conventions and the existing IT system implementation will be documented and addressed in later phases of the program as appropriate.

1.2.2.7 Field Test Extension Options

Prior to the start of field testing, the Government may exercise an option(s) to extend field testing beyond the initial ten (10) weeks for 30 to 60 days. These optional efforts shall be exercised before, or during, the 1-month Baseline Calibration effort of Section 1.2.2.3 of this PWS. The option(s) will be exercised via a funded modification to this Task Order.

If the field test is extended, the contractor shall provide the same level of base support as provided in the initial 10 weeks for Option 1 (a 30-day extension) and Option 2 (a 2nd 30-day extension). The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the extension period. The contractor shall also be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period.

1.2.2.8 Limited Operational Test Extension

At the conclusion of the Operational Environment Field Test, the Contractor shall continue to operate four (4) NG-ADS units in the field to gather additional reliability data for a period of not more than nine (9) months. During this period, the Contractor will continue to monitor component failures. Failure data will be collected and reported on a bi-weekly basis. The bi-weekly Failure Reports will include all observed component failures by fielded instrument, the sub-system at fault, and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The bi-weekly reports will be delivered ten (10) days after the completion of each two week reporting period.



The NG-ADS units will be supported using a combination of the (b)(4)(b)(7)(F) and the (b)(4)(b)(7)(F) he Contractor will provide all required consumables, spares and other support equipment necessary to support this operation. The Contractor will provide technical support required to repair, maintain and operate the biodetector units during this period.

1.3 Other Requirements

1.3.1 Program Reviews



1.3.2 Management Information

The Contractor shall submit Monthly Project Status Reports (MPSR) no later than the fifteenth workday after the reporting calendar month. Reports will include breakouts by Task Order and SOO Test Events. The Contractor shall provide an MPSR that includes the following elements:

- Project Cost by Task Order:
 - Budget at Completion (BAC)
 - Actual Cost (AC)
 - Accrued Cost (estimates)
 - Cost Variance (CV) Actuals vs. Budget
- Estimate at Complete (EAC)
 - Estimate to Completion (ETC)
 - Cost Funds Status
- Performance/Schedule by Task Order and Test Event:
 - Project Schedule
 - o Overall Technical Performance Evaluation
 - o Completion percentage of the Milestones and/or Deliverables
 - Schedule Variance (SV)
 - Variance at Completion (VAC)
- Risk Management by Task Order and Test Event:
 - Risk Reporting Matrix
 - Risk Mitigation Worksheet

Current period values and cumulative values for data, variances, and forecasts will be provided in numerical format showing values and in graphical format showing trends. Any schedule variance on the critical path will be identified and its impact on subsequent milestones and the project cost and schedule quantified.

The Contractor shall also deliver a draft Program Management Plan and final Program Management Plan. The draft Project Management Plan will be submitted 15 days after a task order is received, with a final submittal reflecting Government input due 30 days after the task order is received. The Project Management Plan shall provide a detailed schedule, including a critical path analysis, along with a narrative discussing the salient

issues affecting task execution in terms of needed technical inputs and analysis to meet cost, schedule, and performance in the task execution.

1.3.3 Technology Readiness Assessment

The Contractor shall provide adequate information to permit the Government to determine the TRL level of the NG-ADS technology throughout the course of the program.

1.3.4 Configuration Management

Minor modifications and adjustments to the NG-ADS equipment or manufacturing processes may be required as a result of characterization and field testing. To ensure that the Government is fully engaged and informed about the NG-ADS and the various options for improving them, the Contractor shall maintain a robust configuration management system. The Contractor shall submit proposed changes/modifications that result from the characterization or field testing to the Government for approval

Once units are delivered for testing, all changes will be reviewed and approved by DHS before they are implemented during Operational Environment Field Testing.

If the program implements modifications or changes that require additional characterization and system tests, the Contractor will provide the consumables and technical support for this effort. These changes will be subject to a contract modification in accordance with the contract's changes clause (FAR 52.243-2).

The Contractor shall implement drawing configuration management consistent with Task Order 1.

1.3.5 Occupational Health and Safety

Prior to delivery of the ready-to-test NG-ADS units, the Contractor shall self-certify that the units being delivered are safe to operate and that all known occupational safety and health concerns are appropriately mitigated.



(b) (4)

1.3.6 Technical Exchange Meetings

The Contractor shall prepare for and support technical exchange meetings (TEM) as required to discuss technical issues and agree on an appropriate path forward.

1.4 Deliverables

The Contractor shall deliver the equipment, documentation and training listed in Table 1, Table 2, and Table 3, below. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies - Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist. DHS will provide acceptance or comments within 2 calendar weeks of submittal of all data deliverables. Comments and changes will be incorporated once into a single, final submittal. Final coordination of the training deliverables outlined in Table 3 will occur upon completion of the equipment deliverables outlined in Table 2.

Table 1 Program Deliverables

Description	Due	
Monthly Project Status Report (MPSR)	NLT 15th of each month	
Technical Exchange Meetings	1st TEM NLT 30 days ARO	
	Subsequent meetings as required, not	
	to exceed 1 meeting per month	
Updated Project Management Plan	Draft 15 days ARO	
	Final 30 days ARO	
Trip Reports	As needed	
Summary Subcontract Report	Oct 30 for period 10/1-9/30	
(b) (4)	(b) (4)	
RAM-T - IT Signal Processing V&V Report Generation	Upon the completion of IT V&V Testing	
Safety Assessment Report	Prior to delivery of NG ADS units	
Material Safety Data Sheets (MSDS)	2 months ARO	
Technology Readiness Assessment support materials	Concurrent with final report	
FRACAS summary report	At 14 day intervals, commencing 10 days after start of Operational Environment Field Test and ending 1 month after completion of Operational Environment Field Test; NOTE: During Field Testing, reports will be submitted to the Gen-3 OTA, not the Program Office.	
Complete FRACAS data set	With final FRACAS summary report	

Description	Due		
Maintenance and Operator manual(s)	30 days prior to start of Operational Environment Field Test		
Site log, 1 for each system, during pre-test (Baseline Calibration) and post-test periods	Delivered weekly during pre-test and post-test periods		
Failure Reports during the Limited Operational Test Extension	At 14 day intervals, beginning ten (10) days after the completion of the first two (2) week reporting period.		

Table 2 Equipment Deliverables

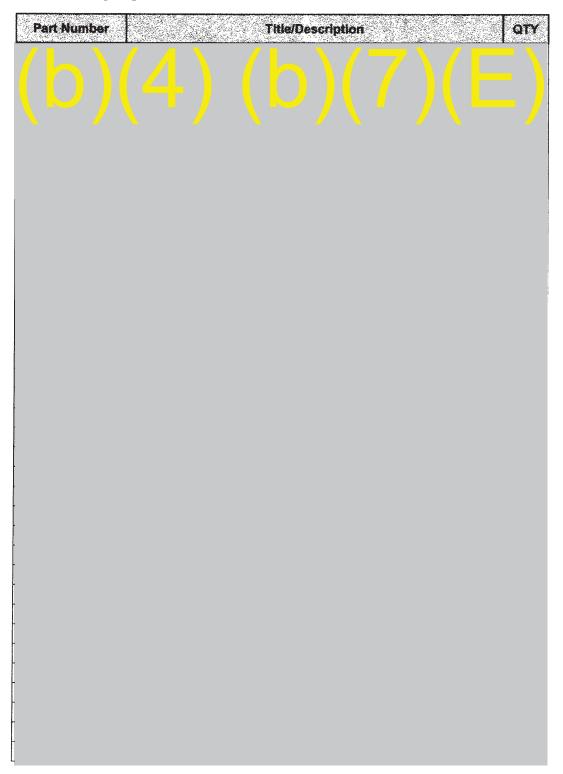
Description (b)(4) (b)(7)(F)	Due		
Twelve (12) NG-ADS Units for	(b) (4) ARO		
Spares and consumables in support of	(b) (4) ARO; certain		
Detector Baseline Calibration, Operational	consumables and spares may be delivered		
Environment Field Testing, and Limited	in multiple, time-staggered deliveries after		
Operational Test Extension	the first delivery		
Equipment for signal resoint at jurisdiction	Concurrent with the associated training		
Equipment for signal receipt at jurisdiction	class		

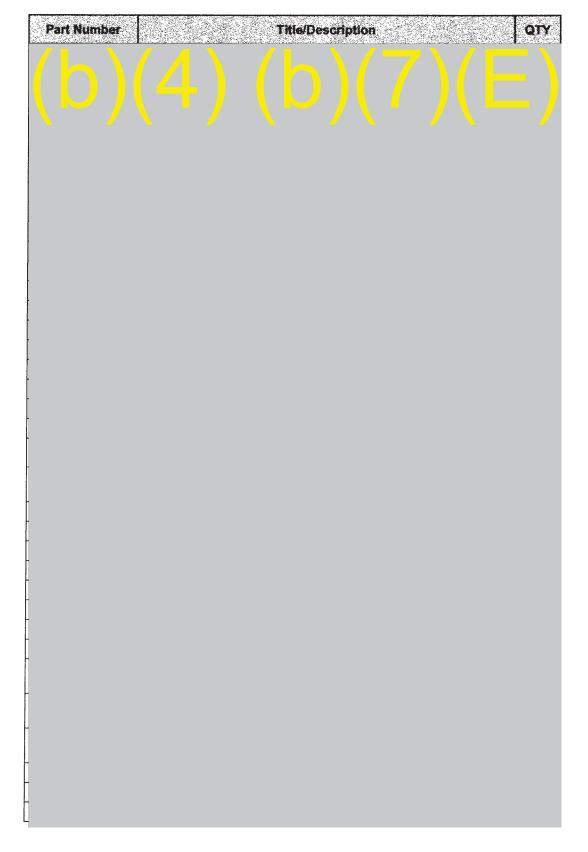
Table 3 Training Deliverables

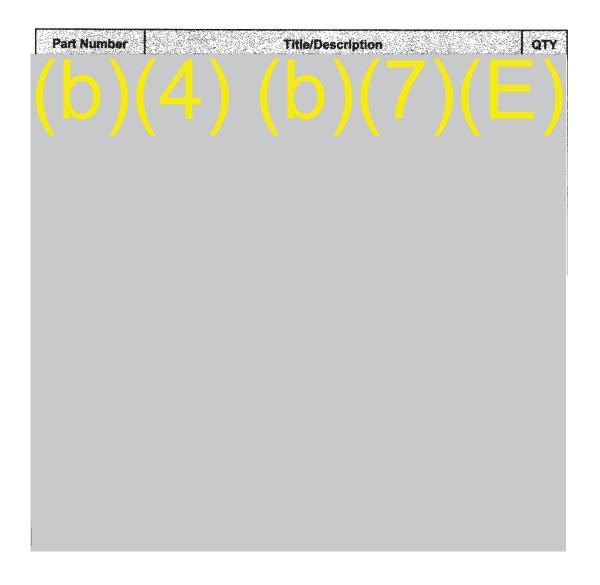
Description	Due
User Interface Training in the Field Testing Jurisdiction (b) (4) (b) (4)	(b) (4) after start of Detector Baseline Calibration
Technical Orientation Training support materials	(b) (4) after receipt of order
Archive Retrieval Training and associated materials	Prior to the start of Detector Baseline Calibration

Attachment 1 - Task Order 2 Spares List

Baseline Scope Spares List



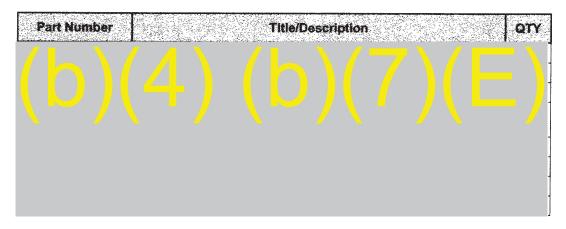


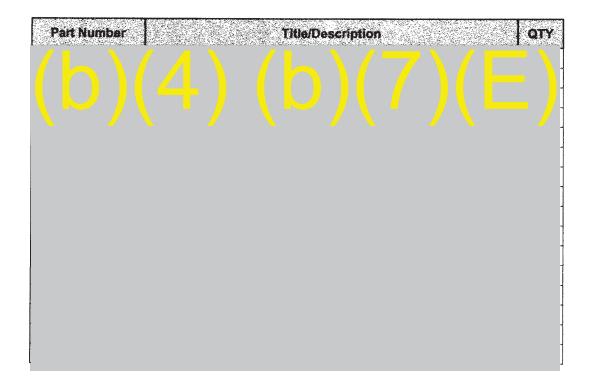


Option 1 Spares List



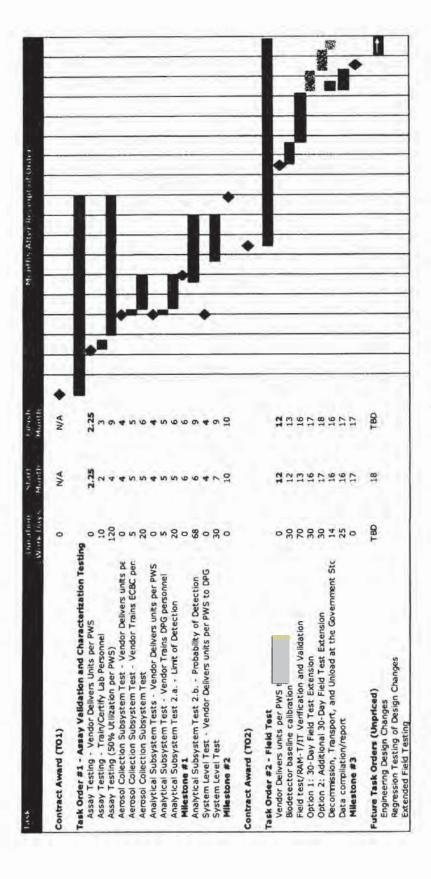
Option 2 Spares List

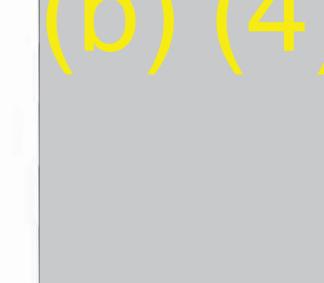




NOTE: Baselines Scope Spares not utilized/consumed in support of Task Order 2 Field Test activities shall be available for utilization/consumption for Option 1 and Option 2 Field Test Extensions, and the Limited Operational Test Extension test period.

Attachment 2 - DHS SPD Program Schedule





Attachment 3 - Contractor's Task Order 2 Schedule



(b) (4)

22 June 2011

Letter Number: 2011-06-22 SPD-Biowatch-0121

U.S. Dept. of Homeland Security Office of Procurement Operations OHA Acquisition Division 245 Murray Lane, SW Building 410 Washington DC 20528

Attention: Ms. Carla Davis- Contracting Officer

Reference: (1) HSHQDC-10-D-00003 Final Contract

(2) HSHQDC-10-J-00455 Executed Task Order 2

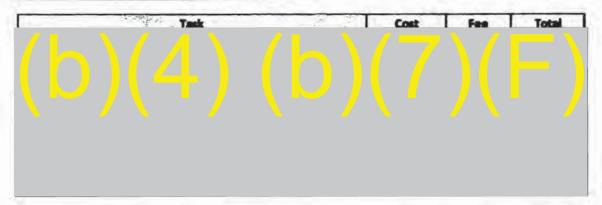
(3) "BioWatch Task Order 2 Request for Proposal", From C. Davis Dated 16 June 2011

Attachments: BioWatch Gen 3 SPD Task Order 2, Updated PWS, 22 June 2011

Subject: BioWatch Program Task Order 2 Proposal Response

Dear Ms. Davis:

Northrop Grumman submits the following proposal in response to the email entitled "BioWatch Task Order 2 Request for Proposal" (Reference 3). This proposal consists of a (b)(4)(b)(7)(F) Task Order 2 (b)(4)(b)(7)(F) This proposal also contain: (b)(4)(b)(7)(F)



Additionally, Northrop Grumman submits an updated Task Order 2 Performance Work Specification (Attachment 1) that reflects the PWS change (b)(4)(b)(7)(F)



Should you have any questions about this matter, please contact the undersigned.

Sincerely,

Northrop Grumman Security Systems, LLC



Contracts Representative

Phone: (b) (6)
Fax: (b) (6)

Email: (b) (6)

AMENDIS	ENT OF SOLICITATION/MO	DIFICATION OF CONTRACT	r .	1. CONTRACT ID CODE	PAGE	OF PAGES	
4,740-743-111				DEDING TONION DOUGE DEO NO	1 Is pposter	NO /// analicable)	
	ENT/MODIFICATION NO.	3 EFFECTIVE DATE	4.1	REQUISITION/PURCHASE REQ. NO.	3. PROJECT	NO. (If applicable)	
F00008	Y	CODE DHS/OPO/OHA	7,	ADMINISTERED BY (If other than Item 6)	CODE DH	S/OPO/OHA	
Office OHA Acc 245 Mur Buildin Washing 8. NAME AND	ton DC 20528 DADDRESS OF CONTRACTOR (N	ecurity erations o. street county, Slate and ZIF Code)	Of OI 24 Bi	S. Dept. of Homeland S ffice of Procurement Op HA Acquisition Division 45 Murray Lane, SW uilding 410 ashington DC 20528 9A AMENDMENT OF SOLICITATION NO.	erations		
NORTHROP GRUMMAN SECURITY SYSTEMS LLC 1580 B WEST NURSERY RD LINTHICUM HEIGHTS MD 210900000		x	98. DATED (SEE ITEM 11) x 10A. MODIFICATION OF CONTRACT/ORDER NO. HSHQDC-10-D-00003				
				HSHQDC-10-J-00455 10B. DATED (SEE ITEM 13)			
CODE 10	046382050000	FACILITY CODE		09/27/2010			
	340302030000	11. THIS ITEM ONLY AP	PLIES TO AME	IDMENTS OF SOLICITATIONS	-		
CHECK ONE	A. THIS CHANGE ORDER IS IS: ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CO appropriation date, etc.) SET	SUED PURSUANT TO: (Specify auth	REFLECT THE THE AUTHOR	MODIFIES THE CONTRACT/ORDER NO. AS UNGES SET FORTH IN ITEM 14 ARE MADE ADMINISTRATIVE CHANGES (such as charity OF FAR 43.103(b).	IN THE CONTRAC	T ¹	
х		- Cost-Reimburseme	ent				
	D. OTHER (Specify type of modil	fication and authority)					
E. IMPORTAN	T: Contractor	not. x is required to sign this do	cument and retu	rn 1 copies to the iss	suing office.		
The purpose of the pu	mber: $104638205+0$ pose of this modification and all assombly $(7)(F)$	ication is to auth ciated spare parts for	orize th	The Contractor to relocate $(7)(F)$ The desting as further $(7)(F)(F)$ The desting as further $(7)(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)(F)$	te three	in the	
The esti there is Continue Except as prov	imated cost for the sufficient fundi	ng already obligat	ed on th	I testing of the 3 unit is task order to reloc heretofore changed, remains unchanged and A NAME AND TITLE OF CONTRACTING O hristopher Wallis	ate the un in full force and eff	ect.	
/		15C DATES		B UNITED STATES OF AMERICA	1000	16C. DATE SIGNED	
		7/5/1	N -	(Signifure of Contracting Officer)	alle	+/19/11	
Previous editio	on unusable			W	STANDARD FOR Prescribed by GS FAR (48 CFR) 53		

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE OF 15 PROPRIED
 PAGE OF 2
 P

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

NO.	SUPPLIES/SERVICES	QUANTIT	1 3 6 6 6 7	UNIT PRICE	AMOUNT (E)
)	(B)	(C)	(D)	(E)	(F)
	continue the required testing through the current end date of performance, September 26, 2011. As such the relocation and continued testing shall be provided at no additional cost to the Government. This modification also incorporates an optional 30 day extension to the testing of the 3 units to be relocated to the (D)(4) (D)(7)(F) at a not-to-exceed cost of (D) (4) with a fixed fee of (D) (4) for a total price of (D) (4). The Government recognizes that due to program efficiencies, this option price is reliant on the execution of the optional extension under the limited operational test proposal referenced in MOD P00007 to the task order. For purposes of the relocation of the 3 units to the (D)(4) (D)(7)(F) and for travel to the location of these units in the field, the restrictions on the reimbursement of local travel in section G.6 of the contract are waived and local travel for these purposes will be reimbursable. Contractor commuting expenses and other local travel not required for these purposes are not eligible for reimbursement. Additionally, the contractor agrees to store the remaining equipment and spares transported from the currently (D)(4) (D)(7)(F) at no cost to the Government until the date of the final close-out of this task order (reference MOD P00007, block 14, subsection 1 which authorized transport of equipment and spares to the alternate NGSS facility). The total task order obligated amount of \$9,310,359 remains unchanged and notwithstanding any of the terms of this modification FAR clause \$2,232-20, Limitation of Cost, remains in full effect. All other Task Order terms remain unchanged. AAP Number: 64418 DO/DPAS Rating: NONE Period of Performance: 09/27/2010 to 09/26/2011	(C)			

Performance Work Statement - Task Order 2

1 Objectives and Goals

Under the Phase I Systems Performance Demonstration (SPD) contract, the Contractor will provide Next-Gen Automated Detection Systems (NG-ADS) and all technical and operational support to enable the Government to test in an operationally relevant field environment in Task Order 2 to determine the adequacy of the NG-ADS for future procurement and deployment. The Government may also issue additional task orders for engineering enhancements to correct and validate issues identified during testing activities described below.

The objective of this effort is to demonstrate that the NG-ADS:

- Conforms to the Gen-3 performance specification,
- Has a system performance with associated technologies that meet a minimum Technology Readiness Level (TRL) of 7, and
- Contains acceptable assays and uses reagents produced with adequate quality control procedures.

In support of these objectives, the Contactor shall provide ready-to-test NG-ADS units and the full range of support to include consumables, data management, operations and maintenance (O&M) support, and technical personnel to support the test activities described below. In particular, the Contractor shall:

- Manufacture and deliver ready-to-test NG-ADS units required for all testing. The NG-ADS units' configuration will be baselined at the Task Order 1 configuration, unless otherwise approved by DHS, and remain under configuration control by the Contractor. All NG-ADS units will be of the same configuration and from the same assembly line, except as otherwise noted herein. The number of spares required to support the testing activities is shown in Attachment 1 – List of Spare Parts.
 - °(b)(4)
- Operate NG-ADS units in support of the tests, including replenishment of consumables and maintenance of the systems when necessary (unless noted otherwise).
- Establish a capability within the independent testing organization and operational test jurisdiction (specifically BioWatch Lab personnel and BioWatch Action Committee) to receive, interpret, and monitor the NG-ADS test results to evaluate the performance of the equipment.
- Collect data and provide reports (Reliability, Availability, Maintainability and Testability (RAM-T) and IT performance data.
- Provide engineering and configuration support.
- Ensure intellectual property and licensing rights are obtained, as appropriate, for commercial-off-the-shelf (COTS) products to allow DHS to operate the NG-ADS units during this Task Order.

1.1 Program Plan

The Contractor has developed a program schedule that meets DHS' Milestone requirements and schedule objectives (Attachment 2).

The Contractor shall meet the Task Order 2 technical Milestones as follows:

 Milestone #3 – Successful completion of the Field Testing activities under Task Order 2 within the scheduled time frame.

1.2 Task Order 2

In support of the Task Order 2 field testing activities, the Contractor will provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in (b)(4)(b)(7)(F) and associated information technology (b)(4)(b)(7)(F) to support the field test, reliability, availability, maintainability, and testability (RAM-T) testing, and IT verification and validation. The Contractor will be responsible for providing equipment and technical support, including the O&M of the NG-ADS units during the course of the field test. This support will include supplying/replenishing all consumables, providing any required preventative maintenance, and corrective maintenance (fixing the system) should it break down during the course of the testing.

Tight configuration control will be used to ensure that all units will be of the same configuration for this testing. (b) (4)

All the NG-

ADS units will be manufactured on the same assembly line.

The Contractor will support the Task Order 2 efforts as described below. This will include providing the necessary NG-ADS units for each test, consumables, spare parts, training, test support, and maintenance support.

1.2.1 Resources

The Contractor shall (b)(4) (b)(7)(F)

consumables and other supplies necessary to support the Task Order 2 testing. The Contractor will also setup($\frac{b}{(b)}(4)$ ($\frac{b}{(b)}(7)(F)$

field testing. Since all testing will take place in Government designated field sites, the Contractor's support will be focused on providing the necessary NG-ADS units, spares, consumables, and personnel to conduct each test. The NG-ADS units will be prepared for the testing in the (b)(4)(b)(7)(F)

The spare parts and consumables necessary to support the testing will also be stored and shipped from this facility and the (b)(4)(b)(7)(F)

1.2.2 Task Order 2 Subtasks

1.2.2.1 Task Order 2 Equipment Procurement and Fabrication

In preparation for Task Order 2 field testing, the Contractor will provide all necessary NG-ADS units, reagents, spare parts, tools, associated information technology, and support plans. This preparation will include the ordering of all material for the fabrication and checkout of the NG-ADS units, all reagents and consumables required to operate the units, and all spares and other support equipment required. including the use and maintenance of the (b)(4)(b)(7)(F) The Contractor will also establish one or more depot facilities (b)(4)(b)(7)(F)

b)(4) (b)(7)(F) to support the installation, baseline calibration, operational field testing, RAM-T testing, IT verification and validation, and limited operational test extension. The Contractor will establish a means of transportation between the depot and the instrument sites (public transportation may be used if it is deemed to be the most cost effective).

The Contractor will procure all material and fabricate twelve (12) NG-ADS units plus spares (same configuration as described for Task Order 1) to support Task Order 2 field test activities. All NG-ADS units delivered for testing under the Phase I SPD contract will be manufactured on the same assembly line.

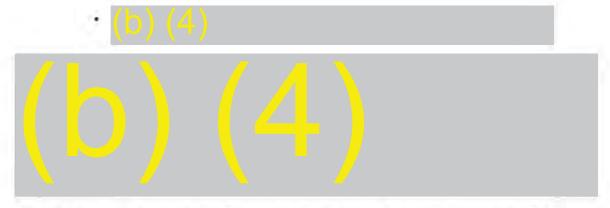
The Contractor will maintain supplies, consumables, and personnel adequate to keep the NG-ADS units operational 24/7 during Operational Environment Field Testing (not including down-time for maintenance, calibration, etc.) and to assist in providing failure analysis data as part of the field test. The Contractor will implement a Failure Reporting, Analysis and Corrective Actions System (FRACAS) to facilitate the capture of failure data during Baseline Calibration and the Operational Environment Field Testing. Failure analysis data will identify all observed problems by test unit / instrument, the sub-system at fault, the total time the system / sub-system was down and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The categories for subsystem at fault and associated subsystems will be agreed to prior to the start of testing. If the FRACAS data is maintained in a proprietary format, the FRACAS application must be provided, or the data must be converted to a common useable format such as Microsoft Excel.

The Contractor will procure all consumables required for testing activities performed under Task Order 2. The Contractor's plan for quality control of the reagents is described in the Quality Assurance Surveillance Plan (QASP) contained in Volume II—Management Proposal.

The Contractor will provide all spare components that are necessary to support Task Order 2 activities. The assessment of spare parts required to support Task Order 2 is provided in Attachment 1.

1.2.2.2 Jurisdictional Training and Coordination

The Contractor will provide eight (8) sets of equipment for signal receipt for use by various users to be specified by the Government. This equipment will be in the form of (b)(4)(b)(7)(E) used to monitor system operational status and test results as well as system and logistical management. (b) (4)



The Contractor will provide the Government will access to an electronic copy of a maintenance and operator manual(s) (draft or preliminary version acceptable) not later than 30 days before the start of Operational Environment Field Testing.

1.2.2.3 Detector Baseline Calibration for Field Test Start

After delivery of the twelve (12) NG-ADS units to the jurisdiction for Field Testing, the Contractor will be given not less than one (1) month to install, set-up and baseline the units at the operational testing sites identified by DHS. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies-Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist.

(b) (4)

At the end of the set up/baseline period, a review period lasting not longer than 1 week will occur. The Field Test will commence immediately following the review period. The NG-ADS units may continue to operate and be supported during the review period, as mutually agreed upon. Each NG-ADS will be co-located with other competitive autonomous biodetectors and a b (4) (b)(7)(E)n both indoor and outdoor test environments. The Government will identify the site(s) two (2) months prior to unit delivery (a preliminary list of site(s) will be provided within 2 weeks after receipt of order), provide site prep prior to unit delivery (in accordance with the Contractor's specifications), provide jurisdiction coordination, and will provide security for the NG-ADS during the duration of the test. The Contractor will be responsible for the security of the NG-ADS enclosure (i.e., locked door to access interior of system). The jurisdiction depot (b) (4) (b) (7) (F) will be used during the installation and baseline testing.

The detector baseline calibration will begin four (4) months after receipt of order and will last up to one (1) month in duration. Prior to the installation, the contractor will provide

06/29/2011 5

Material Safety Data Sheets (MSDS), as necessary, for common consumable items used by their biodetection systems for each consumable subject to spilling (i.e, each liquid), as well as any other common items which may generate disposal/environmental concern, such as batteries. The MSDS will be provided not later than two (2) months after receipt of order.

Detector Baseline Calibration and Review Period Support Details:



- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection. Unless otherwise required by the site manager, a Government escort will not be required to access the site whenever required by the Contractor.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.

The Contractor will provide site visit log information to DHS on a weekly basis during Baseline Calibration in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.4 Operational Environment Field Testing

The Contractor will support the operations and maintenance of the twelve (12) ready-to-test NG-ADS units in support of the Government's test objectives. The NG-ADS units will be split between indoor and outdoor locations based upon a deployment plan that will be developed by the Government. (b) (4)

 $\frac{(D)(4)}{(b)(4)}$

The Contractor will provide test labor for operational environment field testing of twelve (12) instruments in the jurisdiction beginning within one (1) week of the completion of Baseline Cambration for up to ten (10) continuous weeks. This includes weekly Preventive Maintenance (PM) and as-needed Corrective Maintenance (CM).

Operational Environment Field Maintenance Support Details:



 The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection.

- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.
- (b) (4)

At the conclusion of the field test there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install eight (8) biodetector units from field sites and restore the sites to the condition which they were in when installation started, except for modifications made by DHS or at DHS' direction as part of site prep. The Contractor will remove all equipment and materials originally provided by the Contractor at each site, observing all applicable safety and hazardous materials management regulations and good operating practices. A minority of the eight (8) un-installed NG-ADS units will be kept at (b)(4)(b)(7)(F) and the remaining units will be returned to(b)(4)(b)(7)(F)

The Contractor will provide site visit log information to DHS on a weekly basis during the two week post-test period in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.5 RAM-T Data Collection

The goal of the RAM-T Data Collection effort is to gather RAM-T data on the NG-ADS in an applicable operational environment. This effort will be conducted in applicable operational environments (i.e., indoor environment, outdoor environment) to evaluate and validate overall supportability of the system.

1.2.2.6 IT Signal Processing V&V and Report Generation

The goal of this activity is to conduct verification and validation on the proposed information technology (IT) system and gather data from the (b)(4) (b)(7)(E) o support independent Verification and Validation (V&V) of signal processing and report generation functions. The Contractor will provide equipment for signal receipt to up to eight (8) local public health and DHS personnel for this task (same personnel as identified and trained per paragraph 1.2.2.2). This equipment will include (b)(4) (b)(7)(E) used to monitor system test results.

The Contractor will provide DHS with information regarding how the IT system functions in order to establish a baseline of its current implementation. The Contractor will collaborate with DHS to develop the procedures that will be used by DHS to capture and

06/29/2011 7

validate the data generated by the system. Agreed-upon test data/reports will be generated in accordance with these procedures during the last two (2) weeks of Baseline Calibration and during the Operational Environment Field Testing. The Contractor will also participate with DHS in the selection of appropriate standards and conventions that will be applied to the V&V activities. Any findings or discrepancies between these agreed-upon standards and conventions and the existing IT system implementation will be documented and addressed in later phases of the program as appropriate.

1.2.2.7 Field Test Extension Options

Prior to the start of field testing, the Government may exercise an option(s) to extend field testing beyond the initial ten (10) weeks for 30 to 60 days. These optional efforts shall be exercised before, or during, the 1-month Baseline Calibration effort of Section 1.2.2.3 of this PWS. The option(s) will be exercised via a funded modification to this Task Order.

If the field test is extended, the contractor shall provide the same level of base support as provided in the initial 10 weeks for Option 1 (a 30-day extension) and Option 2 (a 2nd 30-day extension). The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the extension period. The contractor shall also be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period.

1.2.2.8 Limited Operational Test Extension

At the conclusion of the Operational Environment Field Test, the Contractor shall continue to operate four (4) NG-ADS units in the field to gather additional reliability data for a period of not more than nine (9) months. During this period, the Contractor will continue to monitor component failures. Failure data will be collected and reported on a bi-weekly basis. The bi-weekly Failure Reports will include all observed component failures by fielded instrument, the sub-system at fault, and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The bi-weekly reports will be delivered ten (10) days after the completion of each two week reporting period.

(b) (4)

The NG-ADS units will be supported using a combination of the (b)(4)(b)(7)(F) and the (b)(4)(b)(7)(F) The Contractor will provide all required consumables, spares and other support equipment necessary to support this operation. The Contractor will provide technical support required to repair, maintain and operate the biodetector units during this period.

1.2.2.9 Operational Demonstration Option

After the conclusion of the Operational Environment Field Testing, the Government may exercise an option for the Contractor to conduct an Operational Demonstration of the

candidate Gen-3 technology at three (3) sites located at (b)(4) (b)(7)(F)
(b)(4) (b)(7)(F) Three (3) of the NG-ADS units tested in (b)(4) (b)(7)(F) will be relocated to (b)(4) (b)(7)(F) lesignated by the Government. (b) (4)

All site preparation will be completed by DHS prior to equipment installation. The units will be operated during a baseline period of 20 calendar days, followed by an Operational Demonstration lasting 30 calendar days, with an additional 30 calendar days of operation available as an option. At the completion of the Operational Demonstration, the units will be removed by the contractor and returned to the (b)(4)(b)(7)(F)

During the Operational Demonstration test period, the Contractor will monitor component failures. Failure data will be collected and reported every 15 calendar days. The Failure Reports will include all observed component failures by fielded instrument, the subsystem at fault, and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The reports will be delivered ten (10) days after the completion of each 15 day reporting period.

(b) (4)

The NG-ADS units' operation will be supported using the (b) (4) (b) (7) (F)
The Contractor will provide all required consumables, spares and other support
equipment necessary to support this operation. The Contractor will provide technical
support required to repair, maintain and operate the biodetector units during this period.
The Contractor's maintenance staff will perform maintenance work (PM / CM) for no
more than a 10 hour continuous period each day, Monday – Friday.

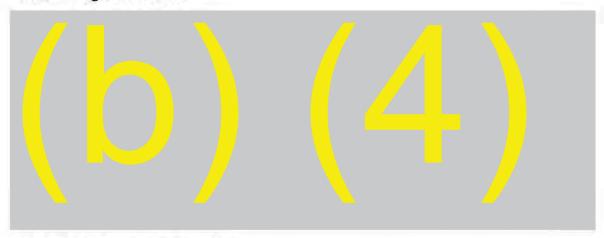


1.2.2.9.1 Operational Demonstration Alternate Location

In the event that an Operational Demonstration at (b)(4)(b)(7)(F) becomes unfeasible, the Contractor will alternately install and operate the three (3) NG-ADS units at three outdoor sites at (b)(4)(b)(7)(F) The timing and duration of the activities will be the same as described above in 1.2.2.9.

1.3 Other Requirements

1.3.1 Program Reviews



1.3.2 Management Information

The Contractor shall submit Monthly Project Status Reports (MPSR) no later than the fifteenth workday after the reporting calendar month. Reports will include breakouts by Task Order and SOO Test Events. The Contractor shall provide an MPSR that includes the following elements:

- Project Cost by Task Order:
 - Budget at Completion (BAC)
 - o Actual Cost (AC)
 - Accrued Cost (estimates)
 - Cost Variance (CV) Actuals vs. Budget
- Estimate at Complete (EAC)
 - Estimate to Completion (ETC)
 - Cost Funds Status
- Performance/Schedule by Task Order and Test Event:
 - Project Schedule
 - o Overall Technical Performance Evaluation
 - Completion percentage of the Milestones and/or Deliverables
 - Schedule Variance (SV)
 - Variance at Completion (VAC)
- Risk Management by Task Order and Test Event:
 - Risk Reporting Matrix
 - Risk Mitigation Worksheet

Current period values and cumulative values for data, variances, and forecasts will be provided in numerical format showing values and in graphical format showing trends. Any schedule variance on the critical path will be identified and its impact on subsequent milestones and the project cost and schedule quantified.

The Contractor shall also deliver a draft Program Management Plan and final Program Management Plan. The draft Project Management Plan will be submitted 15 days after a task order is received, with a final submittal reflecting Government input due 30 days

after the task order is received. The Project Management Plan shall provide a detailed schedule, including a critical path analysis, along with a narrative discussing the salient issues affecting task execution in terms of needed technical inputs and analysis to meet cost, schedule, and performance in the task execution.

1.3.3 Technology Readiness Assessment

The Contractor shall provide adequate information to permit the Government to determine the TRL level of the NG-ADS technology throughout the course of the program.

1.3.4 Configuration Management

Minor modifications and adjustments to the NG-ADS equipment or manufacturing processes may be required as a result of characterization and field testing. To ensure that the Government is fully engaged and informed about the NG-ADS and the various options for improving them, the Contractor shall maintain a robust configuration management system. The Contractor shall submit proposed changes/modifications that result from the characterization or field testing to the Government for approval

Once units are delivered for testing, all changes will be reviewed and approved by DHS before they are implemented during Operational Environment Field Testing.

If the program implements modifications or changes that require additional characterization and system tests, the Contractor will provide the consumables and technical support for this effort. These changes will be subject to a contract modification in accordance with the contract's changes clause (FAR 52.243-2).

The Contractor shall implement drawing configuration management consistent with Task Order 1.

1.3.5 Occupational Health and Safety

Prior to delivery of the ready-to-test NG-ADS units, the Contractor shall self-certify that the units being delivered are safe to operate and that all known occupational safety and health concerns are appropriately mitigated.



(b) (4)

1.3.6 Technical Exchange Meetings

The Contractor shall prepare for and support technical exchange meetings (TEM) as required to discuss technical issues and agree on an appropriate path forward.

1.4 Deliverables

The Contractor shall deliver the equipment, documentation and training listed in Table 1, Table 2, and Table 3, below. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies - Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist. DHS will provide acceptance or comments within 2 calendar weeks of submittal of all data deliverables. Comments and changes will be incorporated once into a single, final submittal. Final coordination of the training deliverables outlined in Table 3 will occur upon completion of the equipment deliverables outlined in Table 2.

Table 1 Program Deliverables

Description	Due
Monthly Project Status Report (MPSR)	NLT 15th of each month
Technical Exchange Meetings	1st TEM NLT 30 days ARO Subsequent meetings as required, not to exceed 1 meeting per month
Updated Project Management Plan	Draft 15 days ARO Final 30 days ARO
Trip Reports	As needed
Summary Subcontract Report	Oct 30 for period 10/1-9/30
(b) (4)	(b) (4)
RAM-T - IT Signal Processing V&V Report Generation	Upon the completion of IT V&V Testing
Safety Assessment Report	Prior to delivery of NG ADS units
Material Safety Data Sheets (MSDS)	2 months ARO
Technology Readiness Assessment support materials	Concurrent with final report
FRACAS summary report	At 14 day intervals, commencing 10 days after start of Operational Environment Field Test and ending 1 month after completion of Operational Environment Field Test; NOTE: During Field Testing, reports will be submitted to the Gen-3 OTA, not the Program

06/29/2011 12

Description	Due
	Office.
Complete FRACAS data set	With final FRACAS summary report
Maintenance and Operator manual(s)	30 days prior to start of Operational Environment Field Test
Site log, 1 for each system, during pre-test (Baseline Calibration) and post-test periods	Delivered weekly during pre-test and post-test periods
Failure Reports during the Limited Operational Test Extension	At 14 day intervals, beginning ten (10) days after the completion of the first two (2) week reporting period.
Failure Reports during the Operational Demonstration	At 15 day intervals, beginning ten (10) days after the completion of the first 15 day reporting period.

Table 2 Equipment Deliverables

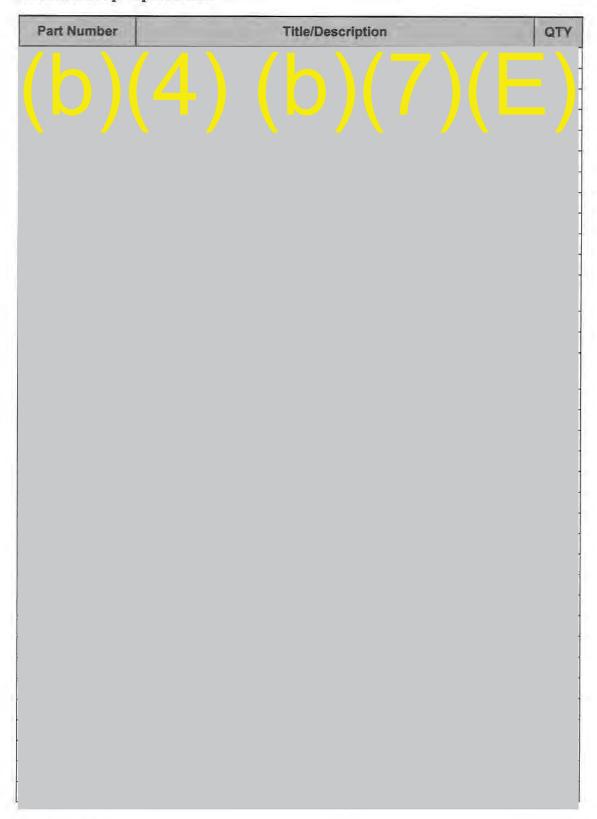
Description	Due			
Twelve (12) NG-ADS Units fo (b)(4) (b)(7)(F)	NLT 4 months ARO			
Spares and consumables in support of Detector Baseline Calibration, Operational Environment Field Testing, Limited Operational Test Extension, and Operational Demonstration	First delivery NLT 4 months ARO; certain consumables and spares may be delivered in multiple, time-staggered deliveries after the first delivery			
Equipment for signal receipt at jurisdiction	Concurrent with the associated training class			

Table 3 Training Deliverables

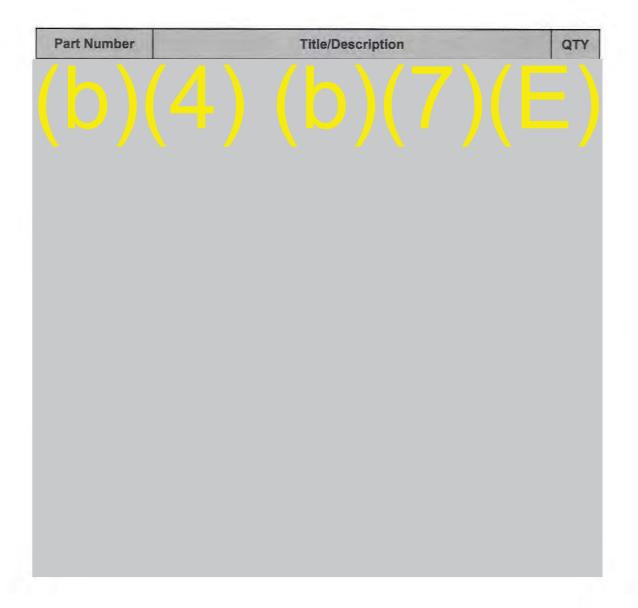
Description	Due			
User Interface Training in the Field Testing Jurisdiction and (b) (4)	(b) (4) after start of Detector Baseline Calibration			
Technical Orientation Training support materials	(b) (4) after receipt of order			
Archive Retrieval Training and associated materials	Prior to the start of Detector Baseline Calibration			
to 3 personnel as part of the Operational Demonstration	of installation of units for the Operational Demonstration			
Refresher training on (b)(4) (b)(7)(E)user interface as part of the Operational Demonstration	(b) (4) b)(4) (b)(7)(E) user interface training session			

Attachment 1 - Task Order 2 Spares List

Baseline Scope Spares List



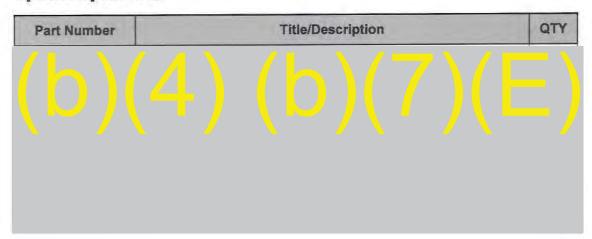
Part Number Title/Description QTY



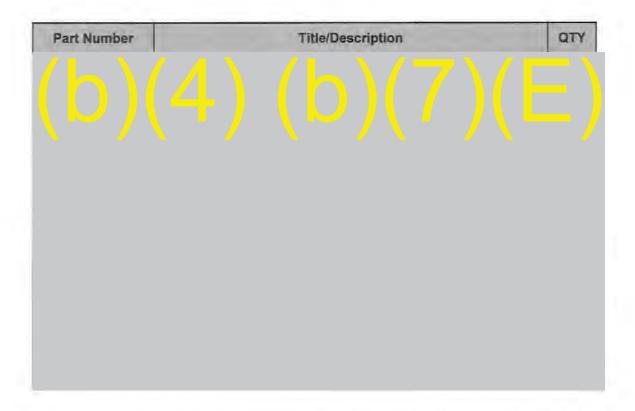
Option 1 Spares List



Option 2 Spares List

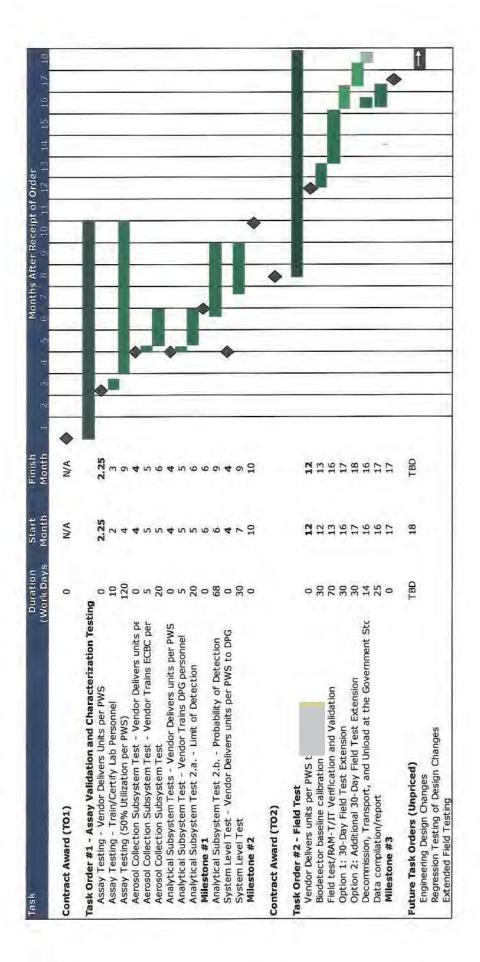


06/29/2011 17



NOTE: Baselines Scope Spares not utilized/consumed in support of Task Order 2 Field Test activities shall be available for utilization/consumption for Option 1 and Option 2 Field Test Extensions, the Limited Operational Test Extension test period, and the Operational Demonstration.

Attachment 2 - DHS SPD Program Schedule





AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
		A DEGLIGITION TO LIGHT DEGLIGO	1 5
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO. ROHA-11-00204	5. PROJECT NO. (If applicable)
P00009 6. ISSUED BY CODE	08/11/2011	7. ADMINISTERED BY (If other than Item 6)	CODE DHS/OPO/OHA
U.S. Dept. of Homeland Secur Office of Procurement Operat OHA Acquisition Division		U.S. Dept. of Homeland Se Office of Procurement Ope OHA Acquisition Division	ecurity
245 Murray Lane, SW Building 410		245 Murray Lane, SW Building 410	
Washington DC 20528		Washington DC 20528	
8. NAME AND ADDRESS OF CONTRACTOR (No., stree	t, county, State and ZIP Code)	(x) 9A. AMENDMENT OF SOLICITATION NO.	
NORTHROP GRUMMAN SECURITY SY 1580 B WEST NURSERY RD		9B. DATED (SEE ITEM 11)	
LINTHICUM HEIGHTS MD 2109000	00		
		X 10A. MODIFICATION OF CONTRACT/ORDER HSHQDC-10-D-00003 HSHQDC-10-J-00455 10B. DATED (SEE ITEM 13)	₹NO.
CODE 1046382050000	FACILITY CODE	09/27/2010	
	11. THIS ITEM ONLY APPLIES	TO AMENDMENTS OF SOLICITATIONS	
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offe to the solicitation and this amendment, and is received	to the solicitation and amendment of OFFERS PRIOR TO THE HOUR After already submitted, such change med prior to the opening hour and date	owledging receipt of this amendment on each copy of the numbers. FAILURE OF YOUR ACKNOWLEDGEMENT ND DATE SPECIFIED MAY RESULT IN REJECTION OF nay be made by telegram or letter, provided each telegrar specified.	TO BE RECEIVED AT FYOUR OFFER. If by
12. ACCOUNTING AND APPROPRIATION DATA (If rec	quired)	Net Increase:	\$14,225.10
See Schedule	IODIEICATION OF CONTRACTS/OF	RDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS	DESCRIPED IN ITEM 14
13. ITIS ITEM ONLY APPLIES TO M	ODIFICATION OF CONTRACTS/OF	RDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS	DESCRIBED IN TIEM 14.
ORDER NO. IN ITEM 10A.		THE CHANGES SET FORTH IN ITEM 14 ARE MADE II	
		ECT THE ADMINISTRATIVE CHANGES (such as chang AUTHORITY OF FAR 43.103(b).	ios III paying onico,
C. THIS SUPPLEMENTAL AGREEMEN X 52.243-2 Changes - C		TO AUTHORITY OF:	
D. OTHER (Specify type of modification	and authority)		
E. IMPORTANT: Contractor is not.	x is required to sign this docume	nt and return1_ copies to the iss	uing office.
14. DESCRIPTION OF AMENDMENT/MODIFICATION	Organized by UCF section heading	gs, including solicitation/contract subject matter where fe	asible.)
DUNS Number: 104638205+0000			
The purpose of this modifica	tion is to order a	additional reagents and consu	ımables in support
of Phase I testing.	,	, (b) (1)	(b) (4)
Task Order estimated cost ha		by (b) (4) to (b) (4)	tc(D) (4)
Task Order Fixed Fee has inc Total Task Order cost has in		- / / /	\$9,324,584.10.
All other Task Order terms r	-		
AAP Number: 64418 DO/DPAS Ra			
Delivery: 90 Days After Awar	a		
Continued	a dia anno ana matan		- full forces and offi-
Except as provided herein, all terms and conditions of the	e aocument referenced in Item 9A c	or 10A, as heretofore changed, remains unchanged and in 16A. NAME AND TITLE OF CONTRACTING OF	
	·		
CONTRACTS REPRESENTAT		Carla Davis	
(h) (6)	15C. DATE SIGNE		16C. DATE SIGNED
	411114	(Signature of Contracting Officer)	STANDARD FORM 30 (REV. 10-83)
Previous edition unusable			Prescribed by GSA

Prescribed by GSA FAR (48 CFR) 53.243

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE OF HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00009
 PAGE OF 2
 5

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Discount Terms:				
	Net 30				
	Delivery Location Code: DHS				
	Department of Homeland Security				
	245 Murray Lane Bldg. 410				
	Washington DC 20528				
	Washington be 20020				
	FOB: Destination				
	Period of Performance: 09/27/2010 to 09/26/2011				
	Change Item 0001 to read as follows (amount shown	1			
	is the obligated amount):				
0001	Additional reagents and consumables for Phase I				14,225.10
	testing.				,
	Estimated Cost (h) (4)				
	Fixed Fee: (D) (4)				
	Total Cost: \$14,225.10				
	See attached RFP for itemized list of materials.				
	Total Line Item Value\$9,324,584.10				
	10001 2110 1001 1010 101110				
	Accounting Info:				
	WMD0010-000-H9-13-50-02-000-05-00-0000-00-00-00	1			
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00 -GE-0E-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000 Funded: \$0.00				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0311-000-H1-13-50-00-000 05-00-0000-00-00-00 GE-0E-25-11-000000				
	Continued				

				1	

REFERENCE NO. OF DOCUMENT BEING CONTINUED PAGE OF CONTINUATION SHEET HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00009 3

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

EM NO.	SUPPLIES/SERVICES (B)	QUANTITY UNIT (C) (D)	UNIT PRICE (E)	AMOUNT (F)
	Funded: \$14,225.10			
			1	
			1	
			1.3	

From: Davis, Carla

Sent: Thursday, July 28, 2011 2:46 PM

To: (b) (6)

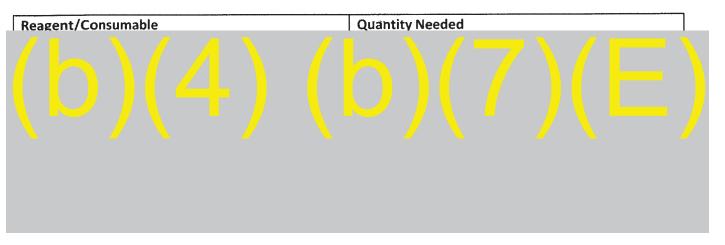
Cc: Wallis, Christopher; Ranhofer, Robert; (b) (6)

Subject: Task Order 2 RFP and Authorization to Place Order

(b)(6)

The BioWatch program office requires additional consumables to be ordered under Task Order 2. Please provide a price quote for the items listed below no later than 2PM EST, Tuesday, August 1.

Please consider this e-mail as authorization to place the order for these additional items along with that of the original consumables request.



Thank you,

CARLA DAVIS

Contracting Officer

Department of Homeland Security

Office of Health Affairs Acquisition Division

P: (b) (6)

_{BB:} (b) (6)

NORTHROP GRUMMAN

i kultur i Ingrusia Esperii, pirkum elek Heriotek Afrik Ingri Berman Eleksa Elisbi

03 August 2011

Letter Number: 2011-08-03 SPD-Biowatch-0133

U.S. Dept. of Homeland Security Office of Procurement Operations OHA Acquisition Division 245 Murray Lane, SW Building 410 Washington DC 20528

Attention: Ms. Carla Davis- Contracting Officer

Reference: (1) HSHQDC-10-D-00003 Final Contract

(2) HSHQDC-10-J-00455 Executed Task Order 2

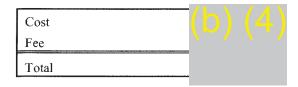
(3) "Task Order 2 RFP and Authorization to Place Order" email from C. Davis dated 28

July 2011

Subject: BioWatch Program Task Order 2 Additional Consumables RFP Response

Dear Ms. Davis:

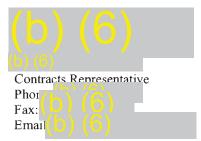
Northrop Grumman submits this response to the Request for Proposal email dated 28 July 2011 (Reference 3). The total price of the additional consumables as requested by the Government i (b) (4) Please see the table below for a complete breakout of this price.



Should you have any questions about this matter, please contact the undersigned.

Sincerely,

Northrop Grumman Security Systems, LLC



AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE	PA	GE OF PAGES
AWENDMENT OF SOCIOTATION/MODIFIC	ATION OF CONTRACT				1 23
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	QUISITION/PURCHASE REQ. NO.	5. PROJE	ECT NO. (If applicable)
P00010	09/08/2011				
6. ISSUED BY CODE	DHS/OPO/OHA	7. A	OMINISTERED BY (If other than Item 6)	CODE	DHS/OPO/OHA
U.S. Dept. of Homeland Secur	city	7 U.S	S. Dept. of Homeland Sec	curity	741/4
Office of Procurement Operat			fice of Procurement Open	-	3
OHA Acquisition Division			A Acquisition Division		
245 Murray Lane, SW		245	Murray Lane, SW		
Building 410		Bu:	ilding 410		
Washington DC 20528			shington DC 20528		
8. NAME AND ADDRESS OF CONTRACTOR (No., stree	t, county, State and ZIP Code)	(x) 9.	A. AMENDMENT OF SOLICITATION NO.		
COMMINO COMMINI CECHETAV CV	CUENC IIC				
NORTHROP GRUMMAN SECURITY SY. 1580 B WEST NURSERY RD	SIEMS LIC		B. DATED (SEE ITEM 11)		
LINTHICUM HEIGHTS MD 2109000	0.0		o. o.c. (o.c. (rem 17)		
LINITICOM AEIGHIS MD 2109000	00				
			0A. MODIFICATION OF CONTRACT/ORDER	NO.	
		1 1	ISHQDC-10-D-00003 ISHODC-10-J-00455		
		I	· ~		
0005	EACH ITY CODE		0B. DATED (SEE ITEM 13)		
CODE 1046382050000	FACILITY CODE		09/27/2010		
	11. THIS ITEM ONLY APPLIES T	OAMEND	MENTS OF SOLICITATIONS		
The above numbered solicitation is amended as set for	orth in Item 14. The hour and date sp	ecified for	receipt of Offers is extended in a second in the second in	ended. 📋	is not extended.
Offers must acknowledge receipt of this amendment p	prior to the hour and date specified in	the solicita	ition or as amended, by one of the following me	ethods: (a) B	y completing
Items 8 and 15, and returning co	pies of the amendment; (b) By acknow	wledging re	eceipt of this amendment on each copy of the o	offer submitte	ed; or (c) By
separate letter or telegram which includes a reference					
THE PLACE DESIGNATED FOR THE RECEIPT OF					•
 virtue of this amendment you desire to change an offer to the solicitation and this amendment, and is received 			by telegram or letter, provided each telegram	or retter mak	(00 relefelled
12. ACCOUNTING AND APPROPRIATION DATA (If rec					
See Schedule	•				
13. THIS ITEM ONLY APPLIES TO M	ODIFICATION OF CONTRACTS/ORE	DERS. IT I	MODIFIES THE CONTRACT/ORDER NO. AS D	ESCRIBED I	N ITEM 14.
					
CHECK ONE A. THIS CHANGE ORDER IS ISSUED FOR ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority) T	THE CHAN	IGES SET FORTH IN ITEM 14 ARE MADE IN	THE CONTR	RACT
ORDER NO. IN ITEM TOA.					
B. THE ABOVE NUMBERED CONTRAC	CT/ORDER IS MODIFIED TO REFLE	CT THE A	DMINISTRATIVE CHANGES (such as change. Y OF FAR 43.103(b).	s in paying o	office,
appropriation date, etc.) SET FORTH	TIN ITEM 14, PURSUANT TO THE A	NO THORIT	T UP PAR 43.103(D).		
C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT TO	O AUTHO	RITY OF:		
X 52.243-2 Changes - C	ost-Reimbursement				
D. OTHER (Specify type of modification			WAR TO THE TOTAL TOTAL TO THE THE TOTAL TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTAL TO THE TOTA		
F IMPORTANT.	Vic required to sign this document	and set	1 copies to the issuir	na office	
E. IMPORTANT: Contractor is not,	x is required to sign this document				
14. DESCRIPTION OF AMENDMENT/MODIFICATION	(Organized by UCF section headings	, including	solicitation/contract subject matter where feas	sible.)	
DUNS Number: 104638205+0000					
The purpose of this modifica					
December 31, 2011 at additio	nal estimated costs	s and	fixed fees totaling 458	8,691.5	51
inclusive of the following e	fforts:				
a) Additional field testing	of NG-ADS units lo	hater	throughout the (h)(4)		7)(F)
(4) (b)(7)(F)		/ 	\/\/\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		· /\· /
and the 3 NG-ADS units	recently relocated	to	(4)(0)(7)(F)and;		
					
b) All costs related to the	packaging, shipping	g and	receiving of the materi	ials it	temized on
the attached Dugway Proving	Ground Material Ret	turn 1	Gist.		
.					
Continued					
	a desument referenced in Home OA	104	protofore phonond remains unchanged and in	full force a= =	Laffoot
Except as provided herein, all terms and conditions of the	e document referenced in Item 9A or		eretofore changed, remains unchanged and in . NAME_AND TITLE OF CONTRACTING OFF		
(b) (6) (ONTR	ACTS	IIOA	. HAME AND THE OF CONTRACTING OFF	IULIN (19pe	or printy
REDO	RESENTATIVE	Ca	rla Davis		
1 / 1	15C. DATE SIGNED	16B	UNITED STATES OF AMERICA		16C. DATE SIGNED
(b) (6)			Carla Davis		09/13/2011
	9/13/11				05/15/2011
			(Signature of Contracting Officer)		

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243
 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00010
 2
 23

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

(A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	(D)	UNIT PRICE (E)	AMOUNT (F)
(A)				(E)	

Performance Work Statement - Task Order 2

1 Objectives and Goals

Under the Phase I Systems Performance Demonstration (SPD) contract, the Contractor will provide Next-Gen Automated Detection Systems (NG-ADS) and all technical and operational support to enable the Government to test in an operationally relevant field environment in Task Order 2 to determine the adequacy of the NG-ADS for future procurement and deployment. The Government may also issue additional task orders for engineering enhancements to correct and validate issues identified during testing activities described below.

The objective of this effort is to demonstrate that the NG-ADS:

- Conforms to the Gen-3 performance specification,
- Has a system performance with associated technologies that meet a minimum Technology Readiness Level (TRL) of 7, and
- Contains acceptable assays and uses reagents produced with adequate quality control procedures.

In support of these objectives, the Contactor shall provide ready-to-test NG-ADS units and the full range of support to include consumables, data management, operations and maintenance (O&M) support, and technical personnel to support the test activities described below. In particular, the Contractor shall:

- Manufacture and deliver ready-to-test NG-ADS units required for all testing. The NG-ADS units' configuration will be baselined at the Task Order 1 configuration, unless otherwise approved by DHS, and remain under configuration control by the Contractor. All NG-ADS units will be of the same configuration and from the same assembly line, except as otherwise noted herein. The number of spares required to support the testing activities is shown in Attachment 1 – List of Spare Parts.
 - °(b) (4)
- Operate NG-ADS units in support of the tests, including replenishment of consumables and maintenance of the systems when necessary (unless noted otherwise).
- Establish a capability within the independent testing organization and operational test jurisdiction (specifically BioWatch Lab personnel and BioWatch Action Committee) to receive, interpret, and monitor the NG-ADS test results to evaluate the performance of the equipment.
- Collect data and provide reports (Reliability, Availability, Maintainability and Testability (RAM-T) and IT performance data.
- Provide engineering and configuration support.
- Ensure intellectual property and licensing rights are obtained, as appropriate, for commercial-off-the-shelf (COTS) products to allow DHS to operate the NG-ADS units during this Task Order.

1.1 Program Plan

Deleted: 06
Deleted: 29

<u>08/18</u>/2011 1

The Contractor has developed a program schedule that meets DHS' Milestone requirements and schedule objectives (Attachment 2).

The Contractor shall meet the Task Order 2 technical Milestones as follows:

 Milestone #3 – Successful completion of the Field Testing activities under Task Order 2 within the scheduled time frame.

1.2 Task Order 2

In support of the Task Order 2 field testing activities, the Contractor will provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in and associated information technology (b)(4)(b)(7)(F) to support the field test, reliability, availability, maintainability, and testability (RAM-T) testing, and IT verification and validation. The Contractor will be responsible for providing equipment and technical support, including the O&M of the NG-ADS units during the course of the field test. This support will include supplying/replenishing all consumables, providing any required preventative maintenance, and corrective maintenance (fixing the system) should it break down during the course of the testing.

Tight configuration control will be used to ensure that all units will be of the same configuration for this testing (b) (4)

All the NG-

ADS units will be manufactured on the same assembly line.

The Contractor will support the Task Order 2 efforts as described below. This will include providing the necessary NG-ADS units for each test, consumables, spare parts, training, test support, and maintenance support.

1.2.1 Resources

The Contractor shall (b)(4)(b)(7)(F) consumables and other supplies necessary to support the Task Order 2 testing. The Contractor will also setup (b)(4)(b)(7)(F)

field testing. Since all testing will take place in Government designated field sites, the Contractor's support will be focused on providing the necessary NG-ADS units, spares, consumables, and personnel to conduct each test. The NG-ADS units will be prepared for the testing in (b)(4)(b)(7)(F)

The spare parts and consumables necessary to support the testing will also be stored and shipped from this facility and (b)(4) (b)(7)(F)

1.2.2 Task Order 2 Subtasks

1.2.2.1 Task Order 2 Equipment Procurement and Fabrication

In preparation for Task Order 2 field testing, the Contractor will provide all necessary NG-ADS units, reagents, spare parts, tools, associated information technology, and support plans. This preparation will include the ordering of all material for the fabrication and checkout of the NG-ADS units, all reagents and consumables required to operate the units, and all spares and other support equipment required, including the use and maintenance of the (b)(4)(b)(7)(F) he Contractor will also establish one or more depot facilities (b)(4)(b)(7)(F)

Deleted: 06
Deleted: 29

<u>08/18/2011</u> 2

to support the installation, baseline calibration, operational field testing, RAM-T testing. IT verification and validation. and limited operational test extension. The

The Contractor will procure all material and fabricate twelve (12) NG-ADS units plus spares (same configuration as described for Task Order 1) to support Task Order 2 field test activities. All NG-ADS units delivered for testing under the Phase I SPD contract will be manufactured on the same assembly line.

The Contractor will maintain supplies, consumables, and personnel adequate to keep the NG-ADS units operational 24/7 during Operational Environment Field Testing (not including down-time for maintenance, calibration, etc.) and to assist in providing failure analysis data as part of the field test. The Contractor will implement a Failure Reporting, Analysis and Corrective Actions System (FRACAS) to facilitate the capture of failure data during Baseline Calibration and the Operational Environment Field Testing. Failure analysis data will identify all observed problems by test unit / instrument, the sub-system at fault, the total time the system / sub-system was down and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The categories for subsystem at fault and associated subsystems will be agreed to prior to the start of testing. If the FRACAS data is maintained in a proprietary format, the FRACAS application must be provided, or the data must be converted to a common useable format such as Microsoft Excel.

The Contractor will procure a consumables required for testing activities performed under Task Order 2. The Contractor's plan for quality control of the reagents is described in the Quality Assurance Surveillance Plan (QASP) contained in Volume II—Management Proposal.

The Contractor will provide all spare components that are necessary to support Task Order 2 activities. The assessment of spare parts required to support Task Order 2 is provided in Attachment 1.

1.2.2.2 Jurisdictional Training and Coordination

The Contractor will provide eight (8) sets of equipment for signal receipt for use by various users to be specified by the Government. This equipment will be in the form of (b)(4)(b)(7)(E) used to monitor system operational status and test results as well as system and logistical management. (b) (4)

Deleted: 06
Deleted: 29

3

<u>08/18</u>/2011

Deleted: 06
Deleted: 29



The Contractor will provide the Government will access to an electronic copy of a maintenance and operator manual(s) (draft or preliminary version acceptable) not later than 30 days before the start of Operational Environment Field Testing.

1.2.2.3 Detector Baseline Calibration for Field Test Start

After delivery of the twelve (12) NG-ADS units to the jurisdiction for Field Testing, the Contractor will be given not less than one (1) month to install, set-up and baseline the units at the operational testing sites identified by DHS. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies-Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist.

(b) (4)

up/baseline period, a review period lasting not longer than 1 week will occur. The Field Test will commence immediately following the review period. The NG-ADS units may continue to operate and be supported during the review period, as mutually agreed upon. Each NG-ADS will be co-located with other competitive autonomous biodetectors and a b (4) (b) (7) in both indoor and outdoor test environments. The Government will identify the site(s) two (2) months prior to unit delivery (a preliminary list of site(s) will be provided within 2 weeks after receipt of order), provide site prep prior to unit delivery (in accordance with the Contractor's specifications), provide jurisdiction coordination, and will provide security for the NG-ADS during the duration of the test. The Contractor will be responsible for the security of the NG-ADS enclosure (i.e., locked door to access interior of system). The jurisdiction depot the installation and baseline testing.

The detector baseline calibration will begin four (4) months after receipt of order and will last up to one (1) month in duration. Prior to the installation, the contractor will provide

Deleted: 06
Deleted: 29

5 /

08/18/2011

Material Safety Data Sheets (MSDS), as necessary, for common consumable items used by their biodetection systems for each consumable subject to spilling (i.e, each liquid), as well as any other common items which may generate disposal/environmental concern, such as batteries. The MSDS will be provided not later than two (2) months after receipt of order.

Detector Baseline Calibration and Review Period Support Details:



- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection. Unless otherwise required by the site manager, a Government escort will not be required to access the site whenever required by the Contractor.
- All system maintenance will be performed by the Contractor. DHS and other parties will not attempt maintenance on the units without NGSS involvement.

The Contractor will provide site visit log information to DHS on a weekly basis during Baseline Calibration in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.4 Operational Environment Field Testing

The Contractor will support the operations and maintenance of the twelve (12) ready-to-test NG-ADS units in support of the Government's test objectives. The NG-ADS units will be split between indoor and outdoor locations based upon a deployment plan that will be developed by the Government. The NG-ADS units will continue to be operated in the 'controls only' mode described above for the duration of the Operational Environment Field Testing.

The Contractor will provide test labor for operational environment field testing of twelve (12) instruments in the urisdiction beginning within one (1) week of the completion of Baseline Calibration for up to ten (10) continuous weeks. This includes weekly Preventive Maintenance (PM) and as-needed Corrective Maintenance (CM).

Operational Environment Field Maintenance Support Details:



 The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection.

Deleted: 06
Deleted: 29

- All system maintenance will be performed by the Contractor. DHS and other
 parties will not attempt maintenance on the units without NGSS involvement.
- (b) (4)

At the conclusion of the field test there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install eight (8) biodetector units from field sites and restore the sites to the condition which they were in when installation started, except for modifications made by DHS or at DHS' direction as part of site prep. The Contractor will remove all equipment and materials originally provided by the Contractor at each site, observing all applicable safety and hazardous materials management regulations and good operating practices. A minority of the eight (8) un-installed NG ADS units will be kept at (D)(4) (D)(7)(F) and the remaining units will be returned to

The Contractor will provide site visit log information to DHS on a weekly basis during the two week post-test period in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.5 RAM-T Data Collection

The goal of the RAM-T Data Collection effort is to gather RAM-T data on the NG-ADS in an applicable operational environment. This effort will be conducted in applicable operational environments (i.e., indoor environment, outdoor environment) to evaluate and validate overall supportability of the system.



1.2.2.6 IT Signal Processing V&V and Report Generation

The goal of this activity is to conduct verification and validation on the proposed information technology (IT) system and gather data from the D(4) (D)(7)(E) to support independent Verification and Validation (V&V) of signal processing and report generation functions. The Contractor will provide equipment for signal receipt to up to eight (8) local public health and DHS personnel for this task (same personnel as identified and trained per paragraph 1.2.2.2). This equipment will include (D)(4) (D)(7)(E) used to monitor system test results.

The Contractor will provide DHS with information regarding how the IT system functions in order to establish a baseline of its current implementation. The Contractor will collaborate with DHS to develop the procedures that will be used by DHS to capture and

Deleted: 06
Deleted: 29

<u>08/18</u>/2011 7 .

validate the data generated by the system. Agreed-upon test data/reports will be generated in accordance with these procedures during the last two (2) weeks of Baseline Calibration and during the Operational Environment Field Testing. The Contractor will also participate with DHS in the selection of appropriate standards and conventions that will be applied to the V&V activities. Any findings or discrepancies between these agreed-upon standards and conventions and the existing IT system implementation will be documented and addressed in later phases of the program as appropriate.

1.2.2.7 Field Test Extension Options

Prior to the start of field testing, the Government may exercise an option(s) to extend field testing beyond the initial ten (10) weeks for 30 to 60 days. These optional efforts shall be exercised before, or during, the 1-month Baseline Calibration effort of Section 1.2.2.3 of this PWS. The option(s) will be exercised via a funded modification to this Task Order.

If the field test is extended, the contractor shall provide the same level of base support as provided in the initial 10 weeks for Option 1 (a 30-day extension) and Option 2 (a 2nd 30-day extension). The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the extension period. The contractor shall also be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period.

1.2.2.8 Limited Operational Test Extension

At the conclusion of the Operational Environment Field Test, the Contractor shall continue to operate four (4) NG-ADS units in the field to gather additional reliability data for a period of six (6) months. During this period, the Contractor will continue to monitor component failures. Failure data will be collected and reported on a bi-weekly basis. The bi-weekly Failure Reports will include all observed component failures by fielded instrument, the sub-system at fault, and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The bi-weekly reports will be delivered ten (10) days after the completion of each two week reporting period.

(b) (4)

The NG-ADS units will be supported using a combination of b)(4) (b)(7)(F)

D)(4) (b)(7)(F)

The Contractor will provide all required consumables, spares and other support equipment necessary to support this operation. The Contractor will provide technical support required to repair, maintain and operate the biodetector units during this period. At the completion of the Limited Operational Test Extension, there will be a post-test recovery period of approximately one (1) week at which time the contractor will de-install. clean. remove, and return, the four (4) units to

1.2.2.9 Operational Demonstration Option

Deleted: not more than nine
Deleted: 9

Deleted: the units will be removed by the contractor

Deleted: ed

Deleted: .

Deleted: 06

Deleted: 29

<u>08/18</u>/2011 8

After the conclusion of the Operational Environment Field Testing, the Contractor will conduct an Operational Demonstration of the candidate Gen-3 technology at three (3) sites located at (b)(4)(b)(7)(F) Three (3) of the NG-ADS units tested in will be relocated to sites at (b)(4)(b)(7)(F) lesignated by the Government.

All site preparation will be completed by DHS prior to equipment installation. The units will be operated during a baseline period of three (3) weeks after all necessary operational policies and procedures have been established, followed by an Operational Demonstration lasting until twenty one (21) weeks after award. At the completion of the Operational Demonstration, there will be a post-test recovery period of approximately one (1) week at which time the contractor will de-install. clean, remove, and return the three (3) units to (b)(4)(b)(7)(F)

During the Operational Demonstration test period, the Contractor will monitor component failures. Failure data will be collected and reported every two (2) weeks. The Failure Reports will include all observed component failures by fielded instrument, the subsystem at fault, and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The reports will be delivered ten (10) days after the completion of each two week reporting period.

The NG-ADS units will be operated in the 'controls only' mode described above in 1.2.2.3₂(b)(4) (b)(7)(E) will be co-located with each NG-ADS for the duration of the demonstration.

(b) (4) b)(4) (b)(7)(F)

ne Contractor will provide all required consumables, spares and other support equipment necessary to support this operation. (b) (4)

(b) (4)

(b) (4)

1.2.2.9.1 Operational Demonstration Alternate Location

In the event that an Operational Demonstration at (b)(4) (b)(7)(F) becomes unfeasible, the

Deleted: Government may exercise an option for the

Deleted: to

Deleted: one

Deleted: 1

Deleted: two

Deleted: 2

Deleted: 20

Deleted: calendar days

Deleted: 30

Deleted: calendar days, with an additional 30 calendar days of operation available as an option

Deleted: will be removed by the contractor and returned

Deleted: 15

Deleted: calendar days

Deleted: 15 day

Deleted: ;

Deleted: however, the agent signature data will not be collected or processed until after the completion of the Operational Demonstration period

Deleted: 06

Deleted: 29

08/18/2011

9 ,

Contractor will alternately install and operate the three (3) NG-ADS units at three outdoor sites a (b)(4)(b)(7)(b) The timing and duration of the activities will be the same as described above in 1.2.2.9.

1.3 Other Requirements

1.3.1 Program Reviews



1.3.2 Management Information

The Contractor shall submit Monthly Project Status Reports (MPSR) no later than the fifteenth workday after the reporting calendar month. Reports will include breakouts by Task Order and SOO Test Events. The Contractor shall provide an MPSR that includes the following elements:

- Project Cost by Task Order:
 - Budget at Completion (BAC)
 - Actual Cost (AC)
 - Accrued Cost (estimates)
 - o Cost Variance (CV) Actuals vs. Budget
- Estimate at Complete (EAC)
 - Estimate to Completion (ETC)
 - Cost Funds Status
- Performance/Schedule by Task Order and Test Event:
 - o Project Schedule
 - o Overall Technical Performance Evaluation
 - Completion percentage of the Milestones and/or Deliverables
 - o Schedule Variance (ŠV)
 - Variance at Completion (VAC)
- Risk Management by Task Order and Test Event:
 - Risk Reporting Matrix
 - Risk Mitigation Worksheet

Current period values and cumulative values for data, variances, and forecasts will be provided in numerical format showing values and in graphical format showing trends. Any schedule variance on the critical path will be identified and its impact on subsequent

,	
Deleted:	
	eropologia i en la larelato dal telegraporazione delle el consiste
Deleted:	29

<u>08/18</u>/2011 10

milestones and the project cost and schedule quantified.

The Contractor shall also deliver a draft Program Management Plan and final Program Management Plan. The draft Project Management Plan will be submitted 15 days after a task order is received, with a final submittal reflecting Government input due 30 days after the task order is received. The Project Management Plan shall provide a detailed schedule, including a critical path analysis, along with a narrative discussing the salient issues affecting task execution in terms of needed technical inputs and analysis to meet cost, schedule, and performance in the task execution.

1.3.3 Technology Readiness Assessment

The Contractor shall provide adequate information to permit the Government to determine the TRL level of the NG-ADS technology throughout the course of the program.

1.3.4 Configuration Management

Minor modifications and adjustments to the NG-ADS equipment or manufacturing processes may be required as a result of characterization and field testing. To ensure that the Government is fully engaged and informed about the NG-ADS and the various options for improving them, the Contractor shall maintain a robust configuration management system. The Contractor shall submit proposed changes/modifications that result from the characterization or field testing to the Government for approval (4)



Once units are delivered for testing, all changes will be reviewed and approved by DHS before they are implemented during Operational Environment Field Testing.

If the program implements modifications or changes that require additional characterization and system tests, the Contractor will provide the consumables and technical support for this effort. These changes will be subject to a contract modification in accordance with the contract's changes clause (FAR 52.243-2).

The Contractor shall implement drawing configuration management consistent with Task Order 1.

1.3.5 Occupational Health and Safety

Prior to delivery of the ready-to-test NG-ADS units, the Contractor shall self-certify that the units being delivered are safe to operate and that all known occupational safety and health concerns are appropriately mitigated.

Deleted: 06
Deleted: 29

<u>08/18</u>/2011 11 :



1.3.6 Technical Exchange Meetings

The Contractor shall prepare for and support technical exchange meetings (TEM) as required to discuss technical issues and agree on an appropriate path forward.

1.4 Deliverables

The Contractor shall deliver the equipment, documentation and training listed in Table 1, Table 2, and Table 3, below. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies - Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist. DHS will provide acceptance or comments within 2 calendar weeks of submittal of all data deliverables. Comments and changes will be incorporated once into a single, final submittal. Final coordination of the training deliverables outlined in Table 3 will occur upon completion of the equipment deliverables outlined in Table 2.

Table 1 Program Deliverables

Description	Due		
Monthly Project Status Report (MPSR)	NLT 15th of each month		
Technical Exchange Meetings	1st TEM NLT 30 days ARO		
	Subsequent meetings as required, not		
	to exceed 1 meeting per month		
Updated Project Management Plan	Draft 15 days ARO		
Opuated Project Management Flan	Final 30 days ARO		
Trip Reports	As needed		
Summary Subcontract Report	Oct 30 for period 10/1-9/30		
(b) (4)	(b) (4)		
RAM-T - IT Signal Processing V&V Report Generation	Upon the completion of IT V&V Testing		
Safety Assessment Report	Prior to delivery of NG ADS units		
Material Safety Data Sheets (MSDS)	2 months ARO		
Technology Readiness Assessment	Concurrent with final report		
support materials			
FRACAS summary report	At 14 day intervals, commencing 10		
7	days after start of Operational		

Deleted: 06
Deleted: 29

<u>08/18</u>/2011 12

Description	Due		
	Environment Field Test and ending 1 month after completion of Operational		
	Environment Field Test; NOTE: During Field Testing, reports will be submitted		
	to the Gen-3 OTA, not the Program Office.		
Complete FRACAS data set	With final FRACAS summary report		
Maintenance and Operator manual(s)	30 days prior to start of Operational Environment Field Test		
Site log, 1 for each system, during pre-test (Baseline Calibration) and post-test periods	Delivered weekly during pre-test and post-test periods		
Failure Reports during the Limited Operational Test Extension	At 14 day intervals, beginning ten (10) days after the completion of the first two (2) week reporting period.		
Failure Reports during the Operational Demonstration	At <u>14</u> day intervals, beginning ten (10) days after the completion of the first <u>two</u> (2) week reporting period.		

Deleted: 15
Deleted: 15 day

Table 2 Equipment Deliverables

Description	Due
Twelve (12) NG-ADS Units for	NLT 4 months ARO
Spares and consumables in support of Detector Baseline Calibration, Operational Environment Field Testing, Limited Operational Test Extension, and Operational Demonstration	First delivery NLT 4 months ARO; certain consumables and spares may be delivered in multiple, time-staggered deliveries after the first delivery
Equipment for signal receipt at jurisdiction	Concurrent with the associated training class

Table 3 Training Deliverables

Description	Due Language and the first of the second second		
User Interface Training in the Field Testing Jurisdiction (b) (4) (b) (4)	(b) (4) after start of Detector Baseline Calibration		
Technical Orientation Training support materials	(b) (4) after receipt of order		
Archive Retrieval Training and associated materials	Prior to the start of Detector Baseline Calibration		
b)(4) (b)(7)(E) user interface training for up	(b) (4) after the completion of		
to 3 personnel as part of the Operational	installation of units for the Operational		
Demonstration	Demonstration		
Refresher training on (b)(4) (b)(7)(E) user	(b) (4) after the initia (b)(4) (b)(7)(E)		

Deleted:		
		,,,
Deleted:	29	

<u>08/18</u>/2011 13

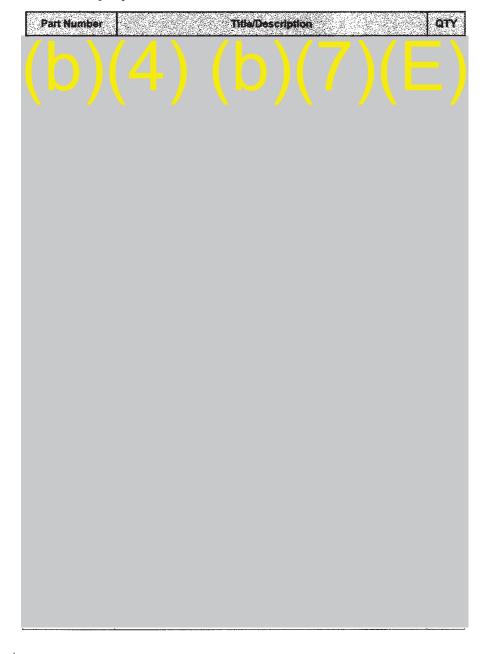
interface as part of the Operational	user interface training session
Demonstration	TO A CONTRACT OF THE PARTY OF T

Deleted: 06 Deleted: 29

<u>08/18/2011</u> 14

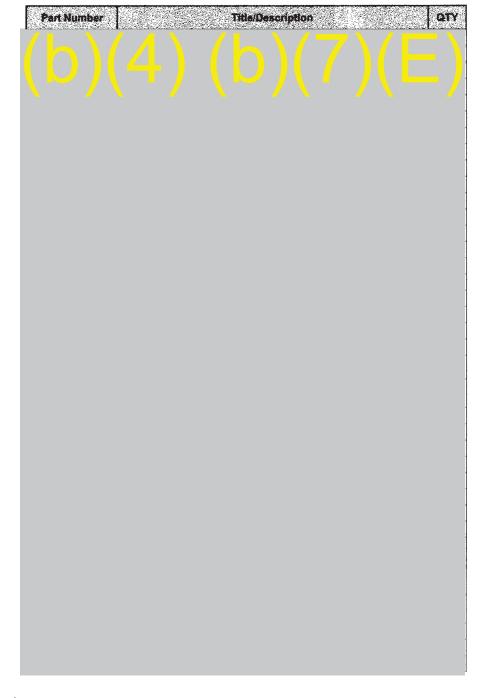
Attachment 1 - Task Order 2 Spares List

Baseline Scope Spares List



,		П
Deleted:		
grander and a company of the company		
Deleted:	29	

<u>08/18</u>/2011 15



		 			-
Deleted:	06				
John Committee of the C		 	a an ar a	race en carro	c =
Deleted:	29				

<u>08/18</u>/2011 16



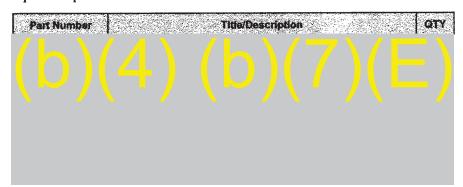
/		 		
Deleted:	06			
>:s-v-ia-,:-:::::::::::::::::::::::::::::::::		 	$(a_{i},a_{$	
Deleted:	29			

<u>08/18/2011</u> 17

Option 1 Spares List

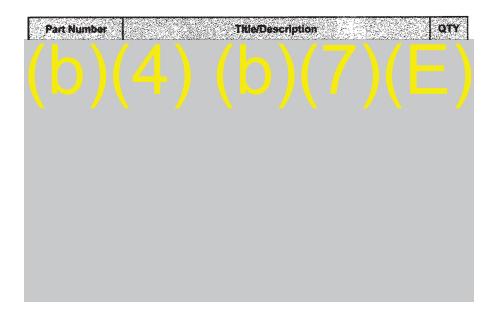


Option 2 Spares List



Deleted:	
Deleted:	

<u>08/18/2011</u> 18

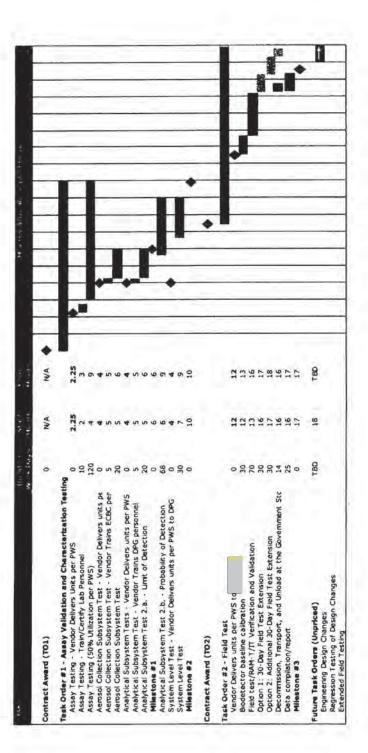


NOTE: Baselines Scope Spares not utilized/consumed in support of Task Order 2 Field Test activities shall be available for utilization/consumption for Option 1 and Option 2 Field Test Extensions, the Limited Operational Test Extension test period, and the Operational Demonstration.

· · · · · · · · · · · · · · · · · · ·		
Deleted:	06	
para montener m		
Deleted:	29	

<u>08/18</u>/2011 19 ,

Attachment 2 - DHS SPD Program Schedule



Deletad: 06 Deletad: 29

Task Order 2



Deleted: 06 Deleted: 29

21

08/18/2011

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMI	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PR	1 2 DJECT NO. (If applicable)
P00011		See Block 16C	See	Schedule	111	
6. ISSUED B	SY CODE		7. ADM	INISTERED BY (If other than Item 6)	CODE	DHS/OPO/OHA
Office OHA Acc 245 Mur Buildir Washing 8. NAME AND NORTHRO	ept. of Homeland Secur of Procurement Operat quisition Division rray Lane, SW ng 410 gton DC 20528 DADDRESS OF CONTRACTOR (NO., 5099) P GRUMMAN SECURITY SY: WEST NURSERY RD UM HEIGHTS MD 21090000	tions It, county, State and ZIP Code) STEMS LLC	Offi OHA 245 Buil Wash (x) 9A	Dept. of Homeland S ce of Procurement Op Acquisition Division Murray Lane, SW ding 410 ington DC 20528 AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) MODIFICATION OF CONTRACT/ORDER HQDC-10-D-00003	eratio	
			1	HQDC-10-J-00455 DATED (SEE ITEM 13)		
CODE 10	046382050000	FACILITY CODE	0.9	/27/2010		
		11. THIS ITEM ONLY APPLIES	TO AMENDME	NTS OF SOLICITATIONS		
to the solicit	s amendment you desire to change an offer tation and this amendment, and is received TING AND APPROPRIATION DATA (If required used)	prior to the opening hour and date s	ay be made by specified. Net Incr		\$458,6	
	13. THIS ITEM ONLY APPLIES TO MO	ODIFICATION OF CONTRACTS/ORI	DERS. IT MOI	DIFIES THE CONTRACT/ORDER NO. AS	DESCRIBE	O IN ITEM 14.
х	B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH C. THIS SUPPLEMENTAL AGREEMENT In accordance with re D. OTHER (Specify type of modification a	risenteredinto pursuant t evised PWS dated S	O AUTHORIT	OF:	ges in paying	office.
E. IMPORTANT	T: Contractoris not.	x is required to sign this document	and return _	1 copies to the iss	uing office.	
4. DESCRIPT	TION OF AMENDMENT/MODIFICATION (Organized by UCF section headings	s, including sol	citation/contract subject matter where fer	asible.)	101
UNS Num	mber: 104638205+0000					
	pose of this modificat					
hrough	December 31, 2011 in	the amount of \$458	8,691.5	, as established in	P00010	
	Her estimated cost has			by (b) (4)	:o(b) ((4)
	der Fixed Fee has incr		p			
		resend from su vi	4,584.10	by \$458,691.51 to \$	9,783,	275.61.
	isk Order cost has inc	reased riom \$9,325				
otal Ta his Tas	sk Order cost has inc k Order is now fully tion FAR 52.232-20, L	funded and not wit	thstandi	ng any of the terms s in full effect.		s
otal Ta his Tas odifica	k Order is now fully tion FAR 52.232-20, L	funded and not wit	thstandi	ng any of the terms s in full effect.		s
otal Tas his Tas odifica ontinue	k Order is now fully tion FAR 52.232-20, L	funded and not wit imitation of Cost,	thstandi remai:	s in full effect.	of thi	
otal Tas his Tas odifica ontinue	k Order is now fully tion FAR 52.232-20, L	funded and not wit imitation of Cost, document referenced in Item 9A or	thstandi remair 10A, as hereto	s in full effect. fore changed, remains unchanged and in ME AND TITLE OF CONTRACTING OF	of thi	d effect.
otal Tas chis Tas codifica ontinue except as provi	tion FAR 52.232-20, L d ided herein, all terms and conditions of the	funded and not wit imitation of Cost, document referenced in Item 9A or	thstandi remair 10A, as hereto 16A, NA Carl	s in full effect. fore changed, remains unchanged and in WE AND TITLE OF CONTRACTING OF a Davis	of thi	d effect. o or print)
Cotal Tas Chis Tas codifica Continue Except as provi	k Order is now fully tion FAR 52.232-20, L	funded and not wit imitation of Cost, document referenced in Item 9A or	thstandi remair 10A, as hereto 16A, NA Carl	s in full effect. fore changed, remains unchanged and in ME AND TITLE OF CONTRACTING OF	of thi	d effect.

STANDARD FORM 30 Prescribed by GSA FAR (48 CFR) 53.243

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00011

PAGE OF

2

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	100000000000000000000000000000000000000	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	All other Task Order terms and conditions remain				CONTRACTOR OF THE CONTRACTOR O
	unchanged.				
	AAP Number: 64418 DO/DPAS Rating: NONE Discount Terms:				
	Net 30				
	FOB: Destination		1 1		
	Period of Performance: 09/27/2010 to 12/31/2011				
	Change Item 0001 to read as follows(amount shown			1	
	is the obligated amount):			1	
				1	managnam managnin di
0001	Fully funding extension through December 31, 2011		1 1	1	458,691.5
	in the amount of \$458,691.51.	/	1 1		
	Total Line Item Value\$9,783,275.61		1 1	1	
	Requisition No: ROHA-11-00094, ROHA-11-00204, ROHA-11-00230			1	
	KONA-11-00250			1	
	Accounting Info:				
	WMD0010-000-H9-13-50-02-000-05-00-0000-00-00-00-00		1 1		
	-GE-OE-25-76-000000		1 1		
	Funded: \$0.00				
	Accounting Info:		1 1		
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00-00			1	
	-GE-0E-25-76-000000		1 1	1	
	Funded: \$0.00 Accounting Info:		1 1		
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00		1 1	1	
	-GE-OE-25-76-000000				
	Funded: \$0.00			1	
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info: WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0311-000-H1-13-50-00-000				
	05-00-0000-00-00-00 GE-OE-25-11-000000 Funded: \$281,576.90				
	Accounting Info:				
	WMD0311-000-H1-13-50-00-000				
	05-00-0000-00-00-00 GE-OE-25-11-000000				
	Funded: \$177,114.61				
1					
9		1			

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES
	ENT/MODIFICATION NO.	3. EFFECTIVE DATE	LA PEQUICITIONIS CONTROL OF STATE OF ST	1 24
P00012			4. REQUISITION/PURCHASE REQ. NO. ROHA-12-00029	5. PROJECT NO. (If applicable)
6. ISSUED B	SY CODE	See Block 16C DHS/OPO/OHA	7. ADMINISTERED BY (if other than item 6)	CODE DUG /ODO /OUR
Office OHA Acc 245 Mun Buildir Washing	gton DC 20528	city	U.S. Dept. of Homeland Sec Office of Procurement Oper OHA Acquisition Division 245 Murray Lane, SW Building 410 Washington DC 20528	arity
8. NAME AN	D ADDRESS OF CONTRACTOR (No., stree	t, county, State and ZIP Code)	(x) 9A. AMENDMENT OF SOLICITATION NO.	
1580 B	P GRUMMAN SECURITY SY WEST NURSERY RD UM HEIGHTS MD 2109000		9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. 104 INCLUDED CONTRACT/ORDER N	D.
			HSHQDC-10-D-00003 HSHQDC-10-J-00455 108. DATED (SEE ITEM 13)	
CODE 10	046382050000	FACILITY CODE	09/27/2010	
		11 THIS ITEM ONLY ADDITIES TO	AMENDMENTS OF SOLICITATIONS	
to the solici	TING AND APPROPRIATION DATA (If requed u le 13. THIS ITEM ONLY APPLIES TO MEA. THIS CHANGE ORDER IS ISSUED P	prior to the opening hour and date spec uired) DDIFICATION OF CONTRACTS/ORDER	the made by telegram or letter, provided each telegram or cified. RS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESECTION OF TO SERVICE STATES. THE CONTRACT/ORDER NO. AS DESECTION OF TO SERVICE STATES.	CRIBED IN ITEM 14.
	ONDERVIO. IN TENTION.	T/ORDER IS MODIFIED TO REFLECT IN ITEM 14, PURSUANT TO THE AUT	THE ADMINISTRATIVE CHANGES (such as changes in HORITY OF FAR 43.103(b).	
X	In accordance with re		ember 9, 2011.	
E. IMPORTAN	T: Contractor is not,	x is required to sign this document and	d return 1 copies to the issuing	office
DUNS Num	nion of amendment/modification (aber: 104638205+0000 sk Order is being modi	Organized by UCF section headings, inc	cluding solicitation/contract subject matter where feasible	.)
1). Upd 1.2.2.9 0)(4)(and;	late the Performance W with instructions to $\binom{0}{7}\binom{7}{F}$	ork Statement (PWS)	(attached, 21 pages) section $(b)(4)(b)(7)$ at the conclusion of	(F)
lecommis Continue	sion of the $\frac{(0)(4)(0)(7)(1)}{1}$	nits beginning on Ja		
Except as provi	ided herein, all terms and conditions of the	document referenced in Item 9A or 10A	, as heretofore changed, remains unchanged and in full f	
	pe or print)	S REPRESENTATIVE	16A. NAME AND TITLE OF CONTRACTING OFFICE Carla Davis	
/14 \		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
	(0)	12/10/11	Carla Davis (Signature of Contracting Officer)	12/13/2011

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243
 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE OF USE OF US

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

(A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	(D)	UNIT PRICE (E)	AMOUNT (F)
(A)	(B)	(0)	107	(12)	1,27
	All other Task Order terms and conditions remain				
	unchanged.				
	AAP Number: 64418 DO/DPAS Rating: NONE		1 4		
	Delivery: 90 Days After Award			1	
	Discount Terms:		1 1		
	Net 30		1 1		
	Delivery Location Code: DHS		1 1		
	Department of Homeland Security		1 1		
	245 Murray Lane				
	Bldg. 410		1 1		
	Washington DC 20528		Ш		
	FOB: Destination				
	Period of Performance: 09/27/2010 to 01/31/2012				
	Change Item 0001 to read as follows (amount shown		П		
	is the obligated amount):				
0001	Changed PoP end date to January 31, 2012 at no				(b) (
	additional cost to the Government.				
	Total Line Item Value\$9,783,275.61		11		
	Accounting Info:				
	WMD0010-000-H9-13-50-02-000-05-00-0000-00-00-00-00		1 1		
	-GE-OE-25-76-000000		F 1.		
	Funded: \$0.00		1 1		
	Accounting Info:		1 1		
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00-00 -GE-0E-25-76-00000		М		
	Funded: \$0.00				
	Accounting Info:		1 1		
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:		1 1		
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00				
	-GE-OE-25-76-000000			0.1	
	Funded: \$0.00		1 1		
	Accounting Info:			1.0	
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00		1 1	110	
	-GE-OE-25-76-000000		1 1		
	Funded: \$0.00		1 1		
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00-00		1 1	1,119	
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0311-000-H1-13-50-00-000				
	05-00-0000-00-00-00-00 GE-0E-25-11-000000				
	Continued				
	Washington wax			111/	

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00012
 3
 24

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

ITEM NO.	SUPPLIES/SERVICES	QUANTITY UN	IIT UNIT PRICE	AMOUNT
(A)	(B)		(E)	(F)
W.	Funded: \$0.00	- - 		
	Accounting Info:			
	WMD0311-000-H1-13-50-00-000			
	05-00-0000-00-00-00 GE-OE-25-11-000000			
	Funded: \$0.00			
NON 7540 04 45	1			ODTIONAL FORM 200 (4.00)

Performance Work Statement - Task Order 2

1 Objectives and Goals

Under the Phase I Systems Performance Demonstration (SPD) contract, the Contractor will provide Next-Gen Automated Detection Systems (NG-ADS) and all technical and operational support to enable the Government to test in an operationally relevant field environment in Task Order 2 to determine the adequacy of the NG-ADS for future procurement and deployment. The Government may also issue additional task orders for engineering enhancements to correct and validate issues identified during testing activities described below.

The objective of this effort is to demonstrate that the NG-ADS:

- · Conforms to the Gen-3 performance specification,
- Has a system performance with associated technologies that meet a minimum Technology Readiness Level (TRL) of 7, and
- Contains acceptable assays and uses reagents produced with adequate quality control procedures.

In support of these objectives, the Contactor shall provide ready-to-test NG-ADS units and the full range of support to include consumables, data management, operations and maintenance (O&M) support, and technical personnel to support the test activities described below. In particular, the Contractor shall:

- Manufacture and deliver ready-to-test NG-ADS units required for all testing. The NG-ADS units' configuration will be baselined at the Task Order 1 configuration, unless otherwise approved by DHS, and remain under configuration control by the Contractor. All NG-ADS units will be of the same configuration and from the same assembly line, except as otherwise noted herein. The number of spares required to support the testing activities is shown in Attachment 1 – List of Spare Parts.
 - Operate NG-ADS units in support of the tests, including replenishment of consumables and maintenance of the systems when necessary (unless noted
- otherwise).
 Establish a capability within the independent testing organization and operational test jurisdiction (specifically BioWatch Lab personnel and BioWatch Action Committee) to receive, interpret, and monitor the NG-ADS test results to evaluate the performance of the equipment.
- Collect data and provide reports (Reliability, Availability, Maintainability and Testability (RAM-T) and IT performance data.
- · Provide engineering and configuration support.
- Ensure intellectual property and licensing rights are obtained, as appropriate, for commercial-off-the-shelf (COTS) products to allow DHS to operate the NG-ADS units during this Task Order.

1.1 Program Plan

0

Deleted: 08/18
Deleted: 10

Deleted: 1

<u>12/09</u>/2011

The Contractor has developed a program schedule that meets DHS' Milestone requirements and schedule objectives (Attachment 2).

The Contractor shall meet the Task Order 2 technical Milestones as follows:

 Milestone #3 – Successful completion of the Field Testing activities under Task Order 2 within the scheduled time frame.

1.2 Task Order 2

In support of the Task Order 2 field testing activities, the Contractor will provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in provide twelve (12) ready-to-test NG-ADS units plus spares, which will be placed in the contraction and associated information technology (b)(4) (b)(7)(F) to support the field test, reliability, availability, maintainability, and testability (RAM-T) testing, and IT verification and validation. The Contractor will be responsible for providing equipment and technical support, including the O&M of the NG-ADS units during the course of the field test. This support will include supplying/replenishing all consumables, providing any required preventative maintenance, and corrective maintenance (fixing the system) should it break down during the course of the testing.

Tight configuration control will be used to ensure that all units will be of the same configuration for this testing. (b) (4)

All the NG-

ADS units will be manufactured on the same assembly line.

The Contractor will support the Task Order 2 efforts as described below. This will include providing the necessary NG-ADS units for each test, consumables, spare parts, training, test support, and maintenance support.

1.2.1 Resources

The Contractor shall (b)(4) (b)(7)(F) consumables and other supplies necessary to support the Task Order 2 testing. The Contractor will also setup (b)(4) (b)(7)(F)

to perform local repairs and store equipment, spares, and consumables during field testing. Since all testing will take place in Government designated field sites, the Contractor's support will be focused on providing the necessary NG-ADS units, spares, consumables, and personnel to conduct each test. The NG-ADS units will be prepared for the testing in the (b)(4) (b)(7)(F)

The spare parts and consumables necessary to support the testing will also be stored and shipped from this facility and (b)(4) (b)(7)(F)

1.2.2 Task Order 2 Subtasks

1.2.2.1 Task Order 2 Equipment Procurement and Fabrication

In preparation for Task Order 2 field testing, the Contractor will provide all necessary NG-ADS units, reagents, spare parts, tools, associated information technology, and support plans. This preparation will include the ordering of all material for the fabrication and checkout of the NG-ADS units, all reagents and consumables required to operate the units, and all spares and other support equipment required, including the use and maintenance of the (b)(4) (b)(7)(F)

The Contractor will also establish (b)(4) (b)(7)(F)

Deleted: 08/18

Deleted: 10

Deleted: 1

2

<u>12/09</u>/2011

to support the installation, baseline calibration, operational field testing, RAM-T testing, IT verification and validation, and limited operational test extension. The

b) (4)

The Contractor will procure all material and fabricate twelve (12) NG-ADS units plus spares (same configuration as described for Task Order 1) to support Task Order 2 field test activities. All NG-ADS units delivered for testing under the Phase I SPD contract will be manufactured on the same assembly line.

The Contractor will maintain supplies, consumables, and personnel adequate to keep the NG-ADS units operational 24/7 during Operational Environment Field Testing (not including down-time for maintenance, calibration, etc.) and to assist in providing failure analysis data as part of the field test. The Contractor will implement a Failure Reporting, Analysis and Corrective Actions System (FRACAS) to facilitate the capture of failure data during Baseline Calibration and the Operational Environment Field Testing. Failure analysis data will identify all observed problems by test unit / instrument, the sub-system at fault, the total time the system / sub-system was down and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The categories for subsystem at fault and associated subsystems will be agreed to prior to the start of testing. If the FRACAS data is maintained in a proprietary format, the FRACAS application must be provided, or the data must be converted to a common useable format such as Microsoft Excel.

The Contractor will procure all consumables required for testing activities performed under Task Order 2. The Contractor's plan for quality control of the reagents is described in the Quality Assurance Surveillance Plan (QASP) contained in Volume II—Management Proposal.

The Contractor will provide all spare components that are necessary to support Task Order 2 activities. The assessment of spare parts required to support Task Order 2 is provided in Attachment 1.

(b) (4)

1.2.2.2 Jurisdictional Training and Coordination

The Contractor will provide eight (8) sets of equipment for signal receipt for use by various users to be specified by the Government. This equipment will be in the form of (b)(4) (b)(7)(E) used to monitor system operational status and test results as well as system and logistical management. (b) (4)

<u>12/09</u>/2011

Deleted: 08/18

Deleted: 10

Deleted: 1



• (b) (4)

The Contractor will provide the Government will access to an electronic copy of a maintenance and operator manual(s) (draft or preliminary version acceptable) not later than 30 days before the start of Operational Environment Field Testing.

1.2.2.3 Detector Baseline Calibration for Field Test Start

After delivery of the twelve (12) NG-ADS units to the bid local jurisdiction for Field Testing, the Contractor will be given not less than one (1) month to install, set-up and baseline the units at the operational testing sites identified by DHS. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies-Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist.

(b) (4)

At the end of the set up/baseline period, a review period lasting not longer than 1 week will occur. The Field Test will commence immediately following the review period. The NG-ADS units may continue to operate and be supported during the review period, as mutually agreed upon. Each NG-ADS will be co-located with other competitive autonomous biodetectors and a b(4) (b)(7)(E) in both indoor and outdoor test environments. The Government will identify the site(s) two (2) months prior to unit delivery (a preliminary list of site(s) will be provided within 2 weeks after receipt of order), provide site prep prior to unit delivery (in accordance with the Contractor's specifications), provide jurisdiction coordination, and will provide security for the NG-ADS during the duration of the test. The Contractor will be responsible for the security of the NG-ADS enclosure (i.e., locked door to access interior of system). The jurisdiction depot (b)(4) (b)(7)(F) will be used during the installation and baseline testing.

The detector baseline calibration will begin four (4) months after receipt of order and will last up to one (1) month in duration. Prior to the installation, the contractor will provide

Deleted: 08/18

Deleted: 10

Deleted: 1

Material Safety Data Sheets (MSDS), as necessary, for common consumable items used by their biodetection systems for each consumable subject to spilling (i.e, each liquid), as well as any other common items which may generate disposal/environmental concern, such as batteries. The MSDS will be provided not later than two (2) months after receipt of order.

Detector Baseline Calibration and Review Period Support Details:

- (b) (4
- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection. Unless otherwise required by the site manager, a Government escort will not be required to access the site whenever required by the Contractor.
- All system maintenance will be performed by the Contractor. DHS and other
 parties will not attempt maintenance on the units without NGSS involvement.

The Contractor will provide site visit log information to DHS on a weekly basis during Baseline Calibration in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.4 Operational Environment Field Testing

The Contractor will support the operations and maintenance of the twelve (12) ready-to-test NG-ADS units in support of the Government's test objectives. The NG-ADS units will be split between indoor and outdoor locations based upon a deployment plan that will be developed by the Government. (5) (4)

The Contractor will provide test labor for operational environment field testing of twelve (12) instruments in the provide jurisdiction beginning within one (1) week of the completion of Baseline Calibration for up to ten (10) continuous weeks. This includes weekly Preventive Maintenance (PM) and as-needed Corrective Maintenance (CM).

Operational Environment Field Maintenance Support Details:

- (D) (4)
- The Government will operate a TOC that will provide personnel 24/7 for timely site access coordination and escort, observation, and data collection.

Deleted: 08/18

Deleted: 10

Deleted: 1

- All system maintenance will be performed by the Contractor. DHS and other
 parties will not attempt maintenance on the units without NGSS involvement.
- (b) (4)

At the conclusion of the field test there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install eight (8) biodetector units from field sites and restore the sites to the condition which they were in when installation started, except for modifications made by DHS or at DHS' direction as part of site prep. The Contractor will remove all equipment and materials originally provided by the Contractor at each site, observing all applicable safety and hazardous materials management regulations and good operating practices. A minority of the eight (8) un-installed NG-ADS units will be kept at [1016] (1016) and the remaining units will be returned to [1016] (4) (6)(7)(F)

The Contractor will provide site visit log information to DHS on a weekly basis during the two week post-test period in an electronic format, which will capture the site arrival and departure times, Contractor personnel visiting site, and site visit activity.

1.2.2.5 RAM-T Data Collection

The goal of the RAM-T Data Collection effort is to gather RAM-T data on the NG-ADS in an applicable operational environment. This effort will be conducted in applicable operational environments (i.e., indoor environment, outdoor environment) to evaluate and validate overall supportability of the system.

(b) (4)	

1.2.2.6 IT Signal Processing V&V and Report Generation

The goal of this activity is to conduct verification and validation on the proposed information technology (IT) system and gather data from the b(4) (b)(7)(E) o support independent Verification and Validation (V&V) of signal processing and report generation functions. The Contractor will provide equipment for signal receipt to up to eight (8) local public health and DHS personnel for this task (same personnel as identified and trained per paragraph 1.2.2.2). This equipment will include (b)(4) (b)(7)(E) used to monitor system test results.

The Contractor will provide DHS with information regarding how the IT system functions in order to establish a baseline of its current implementation. The Contractor will collaborate with DHS to develop the procedures that will be used by DHS to capture and

Deleted: 08/18

Deleted: 10

Deleted: 1

validate the data generated by the system. Agreed-upon test data/reports will be generated in accordance with these procedures during the last two (2) weeks of Baseline Calibration and during the Operational Environment Field Testing. The Contractor will also participate with DHS in the selection of appropriate standards and conventions that will be applied to the V&V activities. Any findings or discrepancies between these agreed-upon standards and conventions and the existing IT system implementation will be documented and addressed in later phases of the program as appropriate.

1.2.2.7 Field Test Extension Options

Prior to the start of field testing, the Government may exercise an option(s) to extend field testing beyond the initial ten (10) weeks for 30 to 60 days. These optional efforts shall be exercised before, or during, the 1-month Baseline Calibration effort of Section 1.2.2.3 of this PWS. The option(s) will be exercised via a funded modification to this Task Order.

If the field test is extended, the contractor shall provide the same level of base support as provided in the initial 10 weeks for Option 1 (a 30-day extension) and Option 2 (a 2nd 30-day extension). The contractor shall provide all consumables and technical support required to repair, maintain and operate the twelve (12) biodetector units 24 hours a day, 7 days a week (24/7) for the extension period. The contractor shall also be responsible for collecting and reporting reliability, availability, maintainability and testability data for the duration of the extension period.

1.2.2.8 Limited Operational Test Extension

At the conclusion of the Operational Environment Field Test, the Contractor shall continue to operate four (4) NG-ADS units in the field to gather additional reliability data, Unit operation will continue until 2 weeks prior to the end of the LAST MONTH of operations (currently January 2012). During this period, the Contractor will continue to monitor component failures. Failure data will be collected and reported on a bi-weekly basis. The bi-weekly Failure Reports will include all observed component failures by fielded instrument, the sub-system at fault, and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The bi-weekly reports will be delivered ten (10) days after the completion of each two week reporting period.

(b) (4)

The NG-ADS units will be supported using a combination of (b)(4) (b)(7)(F)

The Contractor will provide all required consumables, spares and other support equipment necessary to support this operation. The Contractor will provide technical support required to repair, maintain and operate the biodetector units during this period. At the completion of the Limited Operational Test Extension, there will be a post-test recovery period of approximately two (2) weeks at which time the contractor will de-install the four (4) NG-ADS units from the field and return them to (b)(4) (b)(7)(F)

These units, along with other units located at the (b)(4) (b)(7)(F)

[b)(4) (b)(7)(F)

[c)(4) (b)(7)(F)

[c)(4) (c)(7)(F)

[c)(4) (d)(7)(F)

[c)(6) (d)(7)(F)

[c)(6) (d)(7)(F)

[c)(7) (d)(7)(F)

[c)(7) (d)(7)(F)

[c)

Deleted: for a period of six (6) months

Deleted: one
Deleted: 1

Deleted: ,
Deleted: clean, remove, and
Deleted: return

Deleted: transport he four (4)eight (8) units

Deleted: 08/18

Deleted: 10

Deleted: 1

storage. After the completion of the post-test recovery period, the contractor will, if directed by the Government, transport the units and associated materials to the Government's facility (b)(4) (b)(7)(F) or storage.

1.2.2.9 Operational Demonstration Option

coordinated with ECBC and the Government.

After the conclusion of the Operational Environment Field Testing, the Contractor will conduct an Operational Demonstration of the candidate Gen-3 technology at three (3) sites located at b)(4) (b)(7)(F)

Three (3) of the NG-ADS units tested in b(4)(0)(7)(F) will be relocated to sites at b)(4) (b)(7)(F) designated by the Government.

All site preparation will be completed by DHS prior to equipment installation. The units will be operated during a baseline period of three (3) weeks after all necessary operational policies and procedures have been established, followed by an Operational Demonstration lasting until twenty one (21) weeks after award. At the completion of the Operational Demonstration, there will be a post-test recovery period of approximately one (1) week at which time the contractor will de-install and return the three (3) units to the

(b)(4) (b)(7)(F)

These units, along with other units located at the poly(4) (b)(7)(F)

(currently six (6) units in total, which includes one (1) unit from Task Order 1), will be prepared for long term storage. The contractor will, if directed by the Government, then transport the units to the Edgewood Chemical Biological Center (ECBC) in Aberdeen Proving Ground, MD for storage on a date

During the Operational Demonstration test period, the Contractor will monitor component failures. Failure data will be collected and reported every two (2) weeks. The Failure Reports will include all observed component failures by fielded instrument, the subsystem at fault, and the required corrective maintenance action needed to repair the problem and restore the system /subsystem. The reports will be delivered ten (10) days after the completion of each two week reporting period.

(b) (4) (b)(7)(E) will be co-located with each NG-ADS for the duration of the demonstration.

The NG-ADS units' operation will be supported using (b)(4) (b)(7)(F)
The Contractor will provide all required consumables, spares and other support equipment necessary to support this operation. The Contractor will provide technical support required to repair, maintain and operate the biodetector units during this period.

(b) (4)

Deleted: . clean. remove.

Deleted: plus one (1) engineering unit

Deleted:

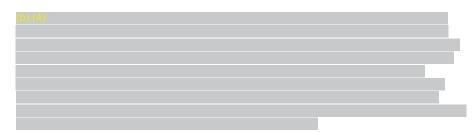
Deleted:

Deleted:

Deleted: 08/18
Deleted: 10

Deleted: 1

12/09/2011

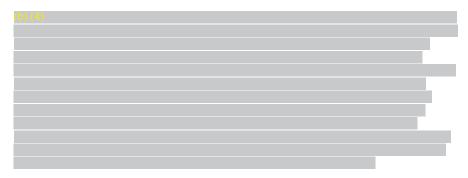


1.2.2.9.1 Operational Demonstration Alternate Location

In the event that an Operational Demonstration at (b)(4) (b)(7)(F) becomes unfeasible, the Contractor will alternately install and operate the three (3) NG-ADS units at three outdoor sites a (b)(4) (b)(7)(F) The timing and duration of the activities will be the same as described above in 1.2.2.9.

1.3 Other Requirements

1.3.1 Program Reviews



1.3.2 Management Information

The Contractor shall submit Monthly Project Status Reports (MPSR) no later than the fifteenth workday after the reporting calendar month. Reports will include breakouts by Task Order and SOO Test Events. The Contractor shall provide an MPSR that includes the following elements:

- Project Cost by Task Order:
 - Budget at Completion (BAC)
 - Actual Cost (AC)
 - Accrued Cost (estimates)
 - o Cost Variance (CV) Actuals vs. Budget
- Estimate at Complete (EAC)
 - o Estimate to Completion (ETC)
 - Cost Funds Status
- Performance/Schedule by Task Order and Test Event:

Deleted: 08/18

Deleted: 10

Deleted: 1

10

12/09/2011

- Project Schedule
- o Overall Technical Performance Evaluation
- Completion percentage of the Milestones and/or Deliverables
- Schedule Variance (SV)
- Variance at Completion (VAC)
- Risk Management by Task Order and Test Event:
 - o Risk Reporting Matrix
 - Risk Mitigation Worksheet

Current period values and cumulative values for data, variances, and forecasts will be provided in numerical format showing values and in graphical format showing trends. Any schedule variance on the critical path will be identified and its impact on subsequent milestones and the project cost and schedule quantified.

The Contractor shall also deliver a draft Program Management Plan and final Program Management Plan. The draft Project Management Plan will be submitted 15 days after a task order is received, with a final submittal reflecting Government input due 30 days after the task order is received. The Project Management Plan shall provide a detailed schedule, including a critical path analysis, along with a narrative discussing the salient issues affecting task execution in terms of needed technical inputs and analysis to meet cost, schedule, and performance in the task execution.

1.3.3 Technology Readiness Assessment

The Contractor shall provide adequate information to permit the Government to determine the TRL level of the NG-ADS technology throughout the course of the program.

1.3.4 Configuration Management

Minor modifications and adjustments to the NG-ADS equipment or manufacturing processes may be required as a result of characterization and field testing. To ensure that the Government is fully engaged and informed about the NG-ADS and the various options for improving them, the Contractor shall maintain a robust configuration management system. The Contractor shall submit proposed changes/modifications that result from the characterization or field testing to the Government for approval

Once units are delivered for testing, all changes will be reviewed and approved by DHS before they are implemented during Operational Environment Field Testing.

If the program implements modifications or changes that require additional characterization and system tests, the Contractor will provide the consumables and technical support for this effort. These changes will be subject to a contract modification

Deleted: 08/18

Deleted: 10

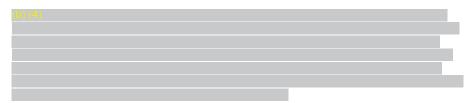
Deleted: 1

in accordance with the contract's changes clause (FAR 52.243-2).

The Contractor shall implement drawing configuration management consistent with Task Order 1.

1.3.5 Occupational Health and Safety

Prior to delivery of the ready-to-test NG-ADS units, the Contractor shall self-certify that the units being delivered are safe to operate and that all known occupational safety and health concerns are appropriately mitigated.



1.3.6 Technical Exchange Meetings

The Contractor shall prepare for and support technical exchange meetings (TEM) as required to discuss technical issues and agree on an appropriate path forward.

1.4 Deliverables

The Contractor shall deliver the equipment, documentation and training listed in Table 1, Table 2, and Table 3, below. Inspection and acceptance of each NG-ADS unit will take place after the installation and activation at each of the operational testing sites in accordance with FAR 52.246-3, Inspection of Supplies - Cost Reimbursement. This inspection will be done during the Contractor's activities that are necessary to install the units and acceptance will be based upon the successful completion and review of the Contractor's installation checklist. DHS will provide acceptance or comments within 2 calendar weeks of submittal of all data deliverables. Comments and changes will be incorporated once into a single, final submittal. Final coordination of the training deliverables outlined in Table 3 will occur upon completion of the equipment deliverables outlined in Table 2.

Table 1 Program Deliverables

Description	Due
Monthly Project Status Report (MPSR)	NLT 15th of each month
Technical Exchange Meetings	1st TEM NLT 30 days ARO
	Subsequent meetings as required, not
	to exceed 1 meeting per month
Updated Project Management Plan	Draft 15 days ARO
Opdated Project Management Plan	Final 30 days ARO

Deleted: 08/18

Deleted: 10

Deleted: 1

Description	Due
Trip Reports	As needed
Summary Subcontract Report	Oct 30 for period 10/1-9/30
(b) (4)	(b) (4)
RAM-T - IT Signal Processing V&V Report Generation	Upon the completion of IT V&V Testing
Safety Assessment Report	Prior to delivery of NG ADS units
Material Safety Data Sheets (MSDS)	2 months ARO
Technology Readiness Assessment support materials	Concurrent with final report
FRACAS summary report	At 14 day intervals, commencing 10 days after start of Operational Environment Field Test and ending 1 month after completion of Operational Environment Field Test; NOTE: During Field Testing, reports will be submitted to the Gen-3 OTA, not the Program Office.
Complete FRACAS data set	With final FRACAS summary report
Maintenance and Operator manual(s)	30 days prior to start of Operational Environment Field Test
Site log, 1 for each system, during pre-test (Baseline Calibration) and post-test periods	Delivered weekly during pre-test and post-test periods
Failure Reports during the Limited Operational Test Extension	At 14 day intervals, beginning ten (10) days after the completion of the first two (2) week reporting period.
Failure Reports during the Operational Demonstration	At 14 day intervals, beginning ten (10) days after the completion of the first two (2) week reporting period.

Table 2 Equipment Deliverables

Description	Due
Twelve (12) NG-ADS Units for (b)(4) (b)(7)(F)	NLT 4 months ARO
Spares and consumables in support of Detector Baseline Calibration, Operational Environment Field Testing, Limited Operational Test Extension, and Operational Demonstration	First delivery NLT 4 months ARO; certain consumables and spares may be delivered in multiple, time-staggered deliveries after the first delivery
Equipment for signal receipt at jurisdiction	Concurrent with the associated training class

Table 3 Training Deliverables

Deleted: 08/18

Deleted: 10

Deleted: 1

13

<u>12/09</u>/2011

Description	Due
User Interface Training in the Field Testing Jurisdiction (b) (4)	(b) (4) after start of Detector Baseline Calibration
Technical Orientation Training support materials	(b) (4) receipt of order
Archive Retrieval Training and associated materials	Prior to the start of Detector Baseline Calibration
(b)(4) (b)(7)(E) user interface training for up to 3 personnel as part of the Operational Demonstration	the completion of installation of units for the Operational Demonstration
Refresher training on (b)(4) (b)(7)(E) user interface as part of the Operational Demonstration	(b) (4) the initial (b)(4) (b)(7)(E) user interface training session

Deleted: 08/18

Deleted: 10

Deleted: 1

14

<u>12/09</u>/2011

Attachment 1 - Task Order 2 Spares List



1	Deleted:	08/18
//	Deleted:	10
	Deleted:	1

12/09/2011

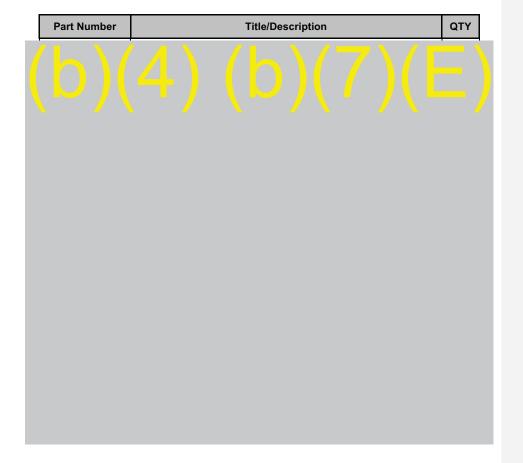


Deleted: 08/18

Deleted: 10

Deleted: 1

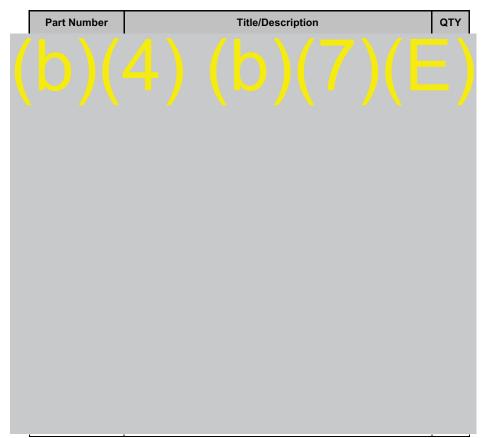
12/09/2011



1	Deleted:	08/18
//	Deleted:	10
/	Deleted:	1

12/09/2011

Option 1 Spares List



Option 2 Spares List

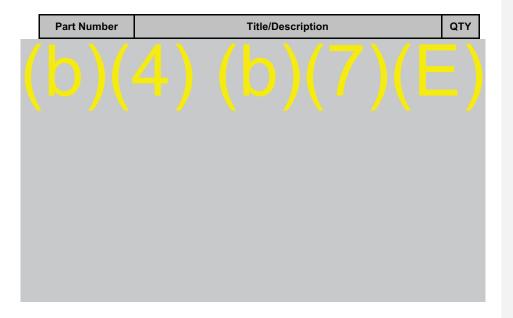


Deleted: 08/18

Deleted: 10

Deleted: 1

12/09/2011



NOTE: Baselines Scope Spares not utilized/consumed in support of Task Order 2 Field Test activities shall be available for utilization/consumption for Option 1 and Option 2 Field Test Extensions, the Limited Operational Test Extension test period, and the Operational Demonstration.

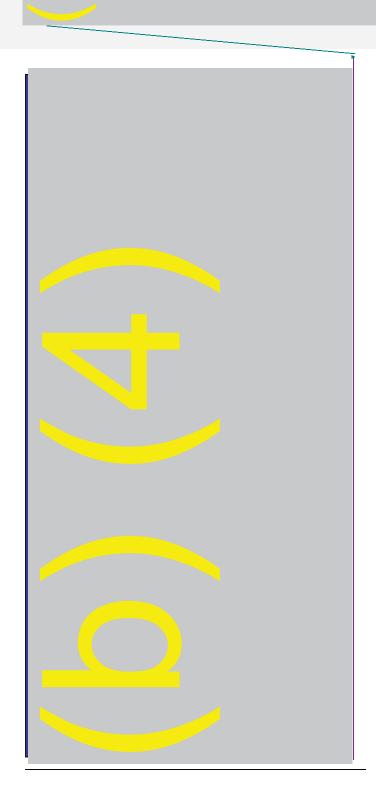
\int	Deleted:	08/18
//	Deleted:	10
\mathbb{Z}	Deleted:	1

12/09/2011

Attachment 2 - DHS SPD Program Schedule

Task	Duration	Start	Finish					Months After Receipt of Order	ıs Af	ter R	eceip	t of	Orde	L				
	(Work Days	Month	Month	1 2	е	4	2	6 7	8	6	10	11	12	13 1	14 1	15 16	17	18
Contract Award (TO1)	0	N/A	♦ A/N															
Task Order #1 - Assay Validation and Characterization Testing	ing																	
Assay Testing - Vendor Delivers Units per PWS	0	2.25	2.25															
Assay Testing - Train/Certify Lab Personnel	10	2	m															
Assay Testing (50% Utilization per PWS)	120	4	6															
Aerosol Collection Subsystem Test - Vendor Delivers units pe	0	4	4			•												
Aerosol Collection Subsystem Test - Vendor Trains ECBC per	2	2	2			_												
Aerosol Collection Subsystem Test	20	2	9															
Analytical Subsystem Tests - Vendor Delivers units per PWS	0	4	4			•	H											
Analytical Subsystem Test - Vendor Trains DPG personnel	2	2	2															
Analytical Subsystem Test 2 a - Limit of Detection	20	2	9															
Milestone #1	0	9	9				H	•										
Analytical Subsystem Test 2 b - Probability of Detection	89	9	6															
System Level Test - Vendor Delivers units per PWS to DPG	0	4	4			•		L										
System Level Test	30	7	6			_												
Milestone #2	0	10	10					_			•	_						
									•									
Contract Award (TO2)									•									
Task Order #2 - Field Test																		
Vendor Delivers units per PWS to OM IDM	0	12	12										•					
Biodetector baseline calibration	30	12	13															
Field test/RAM-T/IT Verification and Validation	70	13	16															
Option 1: 30-Day Field Test Extension	30	16	17											H	H	F		
Option 2: Additional 30-Day Field Test Extension	30	17	18															-
Decommission, Transport, and Unload at the Government Stc	14	16	16														<u>_</u>	
Data compilation/report	25	16	17															
Milestone #3	0	17	17													<u> </u>	P	_
Future Task Orders (Unpriced)	TBD	18	TBD														_	
Engineering Design Changes Regression Testing of Design Changes																		t
Extended Field Testing	·		·	_		7	\dashv	4	_			1	7	┪	╣	4	4]

Deleted: 08/18
Deleted: 10
Deleted: 1



Deleted: 08/18
Deleted: 10
Deleted: 1

AMENDME	ENT OF SOLICITATION/MODIFIC	CATION OF CONTRACT	CONTRACT ID CODE	PA	PAGE OF PAGES		
2 AMENIDAE	NT/MODIFICATION NO.	3. EFFECTIVE DATE	IA DE	QUISITION/PURCHASE REQ. NO.	S PROIT	1 3 CT NO. (If applicable)	
	ATTIMODIFICATION NO.	100000000000000000000000000000000000000	2000	ROHA-12-00058			
P00013 6. ISSUED BY	Y CODE	See Block 16C DHS/OPO/OHA	L'activative.	MINISTERED BY (If other than Item 6)	CODE T	OHS/OPO/OHA	
Office OHA Acq 245 Mur Buildin Washing	ept. of Homeland Secu of Procurement Opera quisition Division ray Lane, SW ug 410 ton DC 20528	rity tions	Off OHA 245 Bui Was	Dept. of Homeland Scice of Procurement Ope Acquisition Division Murray Lane, SW	ecurity erations		
1580 B V	P GRUMMAN SECURITY SY WEST NURSERY RD UM HEIGHTS MD 2109000		x 10 H	A. MODIFICATION OF CONTRACT/ORDE SHQDC-10-D-00003 SHQDC-10-J-00455 DB. DATED (SEE ITEM 13)	ER NO.		
CODE 10	046382050000	FACILITY CODE		09/27/2010			
	Sparr velsen	11. THIS ITEM ONLY APPLIES	TO AMENDI	MENTS OF SOLICITATIONS			
See Sch	A. THIS ITEM ONLY APPLIES TO M A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO: (Specify authority)	THE CHANG	GES SET FORTH IN ITEM 14 ARE MADE OMINISTRATIVE CHANGES (such as change) OF FAR 43.103(b).	IN THE CONTR	RACT	
	C. THIS SUPPLEMENTAL AGREEMEN	NT IS ENTERED INTO PURSUANT	TO AUTHOR	RITY OF:			
Х	Revised Performance	Work Statement					
	D. OTHER (Specify type of modification	and authority)					
E. IMPORTAN	T: Contractor [is not,	x is required to sign this docume	nt and mbum	1 copies to the iss	uina office		
OUNS Num The purp January All other AAP Numb Delivery Discount Net 30 Delivery Departme Continue Except as prov	mber: 104638205+0000 pose of this modifica 31, 2012 to March 15 er Task Order terms a per: 64418 DO/DPAS Ra y: 03/15/2012 t Terms: y Location Code: DHS ent of Homeland Secur ed vided herein, all terms and conditions of the DD TITLE OF SIGNER (Type or print)	ation is to extend ation is to extend ation addit and conditions remains ating: NONE	the pecional ain unc	retofore changed, remains unchanged and NAME AND TITLE OF CONTRACTING O	nd date	effect.	
	LONTE	ACTS REPRESENTA	TALL POP				
	\ (C)	15C. DATE SIGNE		UNITED STATES OF AMERICA		16C. DATE SIGNE	
		1/30/12	6	arla Davis (Signature of Contracting Officer)		1/27/2012	
				(Signature of Contracting Unicer)			

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243 CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00013

PAGE 2 OF 3

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

TEM NO.	SUPPLIES/SERVICES	QUANTITY	27.000	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	245 Murray Lane				
	Bldg. 410		1 1		
	Washington DC 20528		1 1		
	FOB: Destination				
	Period of Performance: 09/27/2010 to 03/15/2012				
	Change Item 0001 to read as follows(amount shown		1 1		
	is the obligated amount):				
001	Extend PoP end date from January 31, 2012 to				(b)
301	March 15, 2012 at no additional cost to the				
	Government.				
	Total Line Item Value\$9,783,275.61				
	Accounting Info: WMD0010-000-H9-13-50-02-000-05-00-0000-00-00-00-00		1 1		
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00				
	-GE-OE-25-76-000000				
	Funded: \$0.00		1 1		
	Accounting Info:				
	WMD0010-000-H0-13-50-02-000-05-00-0000-00-00-00-00		1 1		
	-GE-OE-25-76-000000 Funded: \$0.00		1 1		
	Accounting Info:		1 1		
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00		1 1		
	-GE-OE-25-76-000000		1 1		
	Funded: \$0.00		1 1		
	Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00		1 1		
	-GE-OE-25-76-000000				
	Funded: \$0.00 Accounting Info:				
	WMD0011-000-H0-13-50-00-000-05-00-0000-00-00-00		1 1		
	-GE-OE-25-76-000000				
	Funded: \$0.00				
	Accounting Info:				
	WMD0311-000-H1-13-50-00-000		1 1		
	05-00-0000-00-00-00 GE-OE-25-11-000000				
	Funded: \$0.00				
	Accounting Info: WMD0311-000-H1-13-50-00-000				
	05-00-0000-00-00-00 GE-0E-25-11-000000				
	Funded: \$0.00				
	Award Distribution:				
	OHAprocurements@dhs.gov				
	Continued				
	Concinued				

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 HSHQDC-10-D-00003/HSHQDC-10-J-00455/P00013
 3
 3

NAME OF OFFEROR OR CONTRACTOR

NORTHROP GRUMMAN SECURITY SYSTEMS LLC

TEM NO.	SUPPLIES/SERVICES	QUANTITY UNIT		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Payment Office:		++		
	Department of Homeland Security		1 1		
	Burlington Finance Center		4 1		
	P.O. Box 1000		1 1		
	Williston, VT 05495-1000	1			
	Attn: Office of Health Affairs (OHA)				
	Fax (802-288-7658)				
	E-mail: OHA.invoice.consolidation@dhs.gov				
	ALC: 70-03-1513				
	TIN: 26-1623625				
	Dun: 827414181	l.			
			1 1		
		l k			
			1 1		
			1 1		
		10	1 1		
- 4					
V					