

2 AMENDMENT/MODIFICATION NO P00003 3 EFFECTIVE DATE See Block 16C 4 REQUISITION/PURCHASE REQ NO See Schedule 5 PROJECT NO (If applicable)

6 ISSUED BY CODE DHS/OPO/OBIM 7. ADMINISTERED BY (If other than Item 6) CODE
 Contracting Officer
 MGMT/OPO NPPD/Mailstop 0115
 Department of Homeland Security
 245 Murray Lane SW
 Washington DC 20528-0115

8 NAME AND ADDRESS OF CONTRACTOR (No. , street county, State and ZIP Code)
 NORTHROP GRUMMAN SYSTEMS CORPORATION
 ATTN (b)(6)
 7575 COLSHIRE DRIVE
 MCLEAN VA 221027508
 CODE 9620486950000 FACILITY CODE
 9A AMENDMENT OF SOLICITATION NO. (x)
 9B DATED (SEE ITEM 11)
 10A MODIFICATION OF CONTRACT/ORDER NO
 HSHQDC-14-D-E2035
 HSHQDC-17-J-00370
 10B DATED (SEE ITEM 13)
 09/28/2017

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended is not extended
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods (a) By completing Items 8 and 15, and returning _____ copies of the amendment. (b) By acknowledging receipt of this amendment on each copy of the offer submitted, or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12 ACCOUNTING AND APPROPRIATION DATA (If required) (b)(4)
 See Schedule

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

CHECK ONE
 A THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A
 B THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43 103(b)
 X C THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF (b)(4)
 D OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not is required to sign this document and return 1 copies to the issuing office

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

DUNS Number: 962048695+0000

The purpose of this modification is to reflect the following:

1. Change the Contracting Officer from Robert Degnan to Paula Nusbaum.
 2. Add Michael Horvath as the Contract Specialist.
 3. Incorporate revisions to the Performance Work Statement (see Attachment 1) and Appendix B (see Attachment 2).
 4. Add funding to CLIN 0001 (b)(4) in the amount of (b)(4)
 5. Exercise and fully fund Optional (b)(4) amount of (b)(4) for the (b)(4)
- Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect

15A (b)(6) 16A NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Paula K. Nusbaum
 16B UNITED STATES OF AMERICA PAULA K NUSBAUM Digitally signed by PAULA K NUSBAUM Date: 2018.09.19 11:31:32 -04'00'
 16C DATE SIGNED 9/19/18
 (Signature of Contracting Officer)

CONTINUATION SHEET

REFERENCE NO OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR
 NORTHROP GRUMMAN SYSTEMS CORPORATION

ITEM NO (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
(b)(4)	<p>All other terms and conditions remain unchanged.</p> <p>Attachments:</p> <p>1. Revised Performance Work Statement (b)(4)</p> <p>2. Revised Appendix B (b)(4)</p> <p>AAP Number: 2015029208 DO/DPAS Rating: NONE</p> <p>Discount Terms:</p> <p style="padding-left: 40px;">Net 30</p> <p>Delivery Location Code: DHS</p> <p>Department of Homeland Security</p> <p>245 Murray Lane</p> <p>Mailstop 0305</p> <p>Washington DC 20528</p> <p>FOB: Destination</p> <p>Period of Performance: (b)(4)</p> <p>Change (b)(4) to read as follows (amount shown is the obligated amount):</p> <p>0001 B.003 Increment 1 SW - Operational Environment Bill</p> <p>(b)(4)</p> <p>Requisition No: RNIM-17-00003, RNIM-18-00178</p> <p>Delivery: 09/18/2019</p> <p>Accounting Info:</p> <p>USVIS16 V07 3A 30-20-27-ACQ</p> <p>30-05-1000-00-00-00-00 GE-OE-25-30 000000</p> <p>Funded: \$0.00</p> <p>Accounting Info:</p> <p>(b)(4)</p> <p>90-15-1000-00-00-00-00 GE-OE-31-00 000000</p> <p>(b)(4)</p> <p>Accounting Info:</p> <p>Continued ...</p>				(b)(4)

CONTINUATION SHEET

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	USVIS5A V07 VI 30-20-27-ACQ 30-05-1000-00-00-00-00 GE-OE-31-00 000000 Funded: (b)(4) Accounting Info: USVIS9A V07 VM 30-20-27-ACQ 30-05-1000-00-00-00-00 GE-OE-31-00 000000 Funded: (b)(4) Accounting Info: USVIS18 V07 PE 16-10-00-000 90-15-1000-00-00-00-00 GE-OE-31-00 000000 Funded: (b)(4) Change Item 0006 to read as follows (amount shown is the obligated amount): (b)(4) Product/Service Code: D302 Product/Service Description: (b)(4) SYSTEMS DEVELOPMENT Requisition No: RNIM-18-00178 Delivery: 5 Days After Notice to Proceed Accounting Info: USVIS9A V07 VM 30-20-27-ACQ 30-05-1000-00-00-00-00 GE-OE-31-16 000000 Funded: (b)(4) Accounting Info: USVIS18 V07 PE 16-10-00-000 90-15-1000-00-00-00-00 GE-OE-31-16 000000 Funded: (b)(4) Change Item 0008 to read as follows (amount shown is the obligated amount): (b)(4) Product/Service Code: D302 Product/Service Description: IT AND TELECOM- SYSTEMS DEVELOPMENT Requisition No: RNIM-17-00003, RNIM-18-00178 Delivery: 180 Days After Notice to Proceed Accounting Info: USVIS7A V07 VK 30-20-27-ACQ 30-05-1000-00-00-00-00 GE-OE-25-30 Continued ...				(b)(4)

CONTINUATION SHEET

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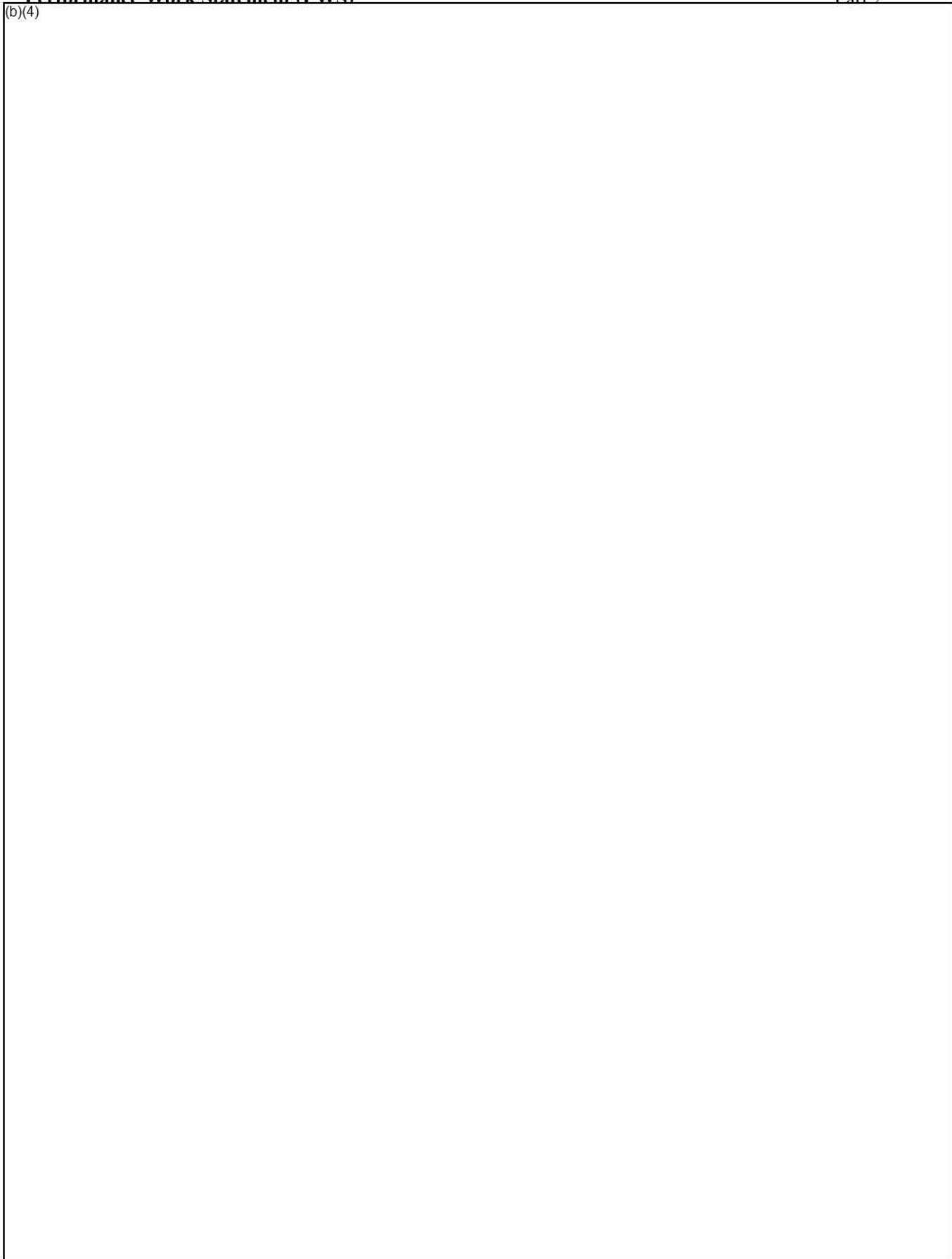


PART 2

Performance Work Statement

(b)(4)

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GLOSSARY OF ACRONYMS

Acronym	Definition
ABIS	Automated Biometric Identification System
ADX	Application Data Xcelerator
AMI	Amazon Machine Image
ANC	Alaska Native Corporation
AO	Authorizing Official
AQL	Acceptable Quality Level
ATO	Authority to Operate
AWS	Amazon Web Services
(b)(4)	
BOM	Bill of Materials
BPA	Blanket Purchase Agreement
BPO	Baseline Performance Objective
CAGE	Commercial and Government Entity Code
CASB	Cost Accounting Standards Board
CBAR	Contract Business Analysis Repository
CCB	Change Control Board
CFA	Cognizant Federal Agency
CFAO	Cognizant Federal Agency Official
CFE	Contractor Furnished Equipment
CI	Configuration Item
CIO	Chief Information Officer
CLIN	Contract Line Item Number
CM	Configuration Management
CMF	Cost of Money Computation Forms
CMMI	Capability Maturity Model Integration
CMP	Configuration Management Plan
COM	Cost of Money
CONOPS	Concept of Operations
COOP	Continuity of Operations
COR	Contracting Officer's Representative
COTS	Commercial-off-the-Shelf
CPAS	Corrective and Preventive Action System
CPFF	Cost-Plus Fixed Fee
CR	Cost Reimbursable
CSP	Cloud Service Provider
CTA	Certification Test Authority
CVT	Candidate Verification Tool
DACO	Divisional Administrative Contracting Officer
DCAA	Defense Contract Audit Agency
DCMA	Defense Contract Management Agency
DFARS	Defense Federal Acquisition Regulation Supplement
DIA	Defense Intelligence Agency

Acronym	Definition
DISA	Defense Information Systems Agency
DoD	Department of Defense
DOJ	Department of Justice
DOS	Department of State
DRL	DROOLS Rule Language
DSBS	Dynamic Small Business Search
DSL	Domain-Specific Language
DTP	Development Test Plan
DUNS	Data Universal Numbering System
EAC	Estimate at Complete
EADIS	Enterprise Application and Development and Integration Services
EAGLE II	Enterprise Acquisition Gateway for Leading Edge Solutions II
EBS	Elastic Block Storage
EDC	Enterprise Data Center
EIN	Employer Identification Number
ES & CSO	Enterprise Services and the Chief Strategy Office
ESB	Enterprise Service Bus
eSRS	Electronic Subcontracting Reporting System
ETL	Extract, Transform and Load
EVM	Earned Value Management
EVMS	Earned Value Management System
FABrIC	Forensics and Biometrics Interim Capability
FAR	Federal Acquisition Regulation
FCCM	Facilities Capital Cost of Money
FCCOM	Facilities Capital Cost of Money
FFP	Firm Fixed Price
FPAF	Fixed Price Award Fee
FPRP	Forward Pricing Rate Proposal
FRD	Functional Requirements Document
FTE	Full-Time Equivalent
G&A	General and Administrative
GDSP	Global Supplier Diversity Program
GFE	Government furnished equipment (
GFP	Government-Furnished Property
GFY	Government Fiscal Year
GOTS	Government-off-the-Shelf
GPB	Google Protocol Buffer
GSS	General Support System
HART	Homeland Advanced Recognition Technical
HBCU	Historically Black College or University
HSDN	Homeland Secure Data Network
HUBZone	Historically Underutilized Business Zone

Acronym	Definition
I&I	Integration and Interoperability
IA	Information Assurance
IACS	Information Assurance Compliance System
IATO	Interim Authority to Operate
IATT	Interim Authority To Test
IAW	In Accordance With
IC	Intelligence Community
ICCB	Infrastructure Change Control Board
ICD	Interface Control Document
IDENT	Automated Biometric Identification System
IDIQ	Indefinite Delivery, Indefinite Quantity
IMS	Integrated Master Schedule
INCOSE	International Council on Systems Engineering
INS	Immigration and Naturalization Service
IOC	Initial Operating Capability
IPR	In-Progress Review
IPRS	Intranet Program Review System
IPT	Integrated Project Team
IRAD	Internal Research and Development
iRRR	incremental Release Readiness Review
ISA	Interconnection Security Agreement
ISO	International Organization for Standardization
ISR	Individual Subcontract Report
ITIL	Information Technology Infrastructure Library
IV&V	Independent Verification and Validation
IXM	IDENT Exchange Messages
LOE	Level of Effort
MI	Minority Institution
MIS	Matcher Interface Service
MMAS	Material Management Accounting System
MMBS	Multimodal Bridge Solution
MPS	Material Procurement Subcontracts
NA	Native American
NAS	Network Attached Storage
NCR	National Capital Region
NDA	Non-Disclosure Agreement
NGI	Next Generation Identification
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NIST	National Institute of Standards and Technology
NPE	Non-Production Environment
NPE	Non-Production Environment

Acronym	Definition
NPPD	National Protection and Programs Directorate
NTP	Notice to Proceed
O&M	Operations and Maintenance
OBIM	Office of Biometric Identity Management
OCI	Organizational Conflict of Interest
ODC	Other Direct Cost
ODR	Operational Data Reporting
OE	Operational Environment
OLAP	Online Analytical Processing
OPEX	Operating Expense
ORD	Operational Requirements Document
ORR	Operational Readiness Review
OSDBU	Office of Small and Disadvantaged Business Utilization
OT&E	Operational Test and Evaluation
OTA	Operational Test Agent
OTRR	Operational Test Readiness Review
PaaS	Platform-as-a-Service
PAC	Post-Award Conference
PASE	Pre-Assessment Self Evaluation
PCCB	Project Change Control Board
PEF	Program Execution Framework
PEM	Performance Engineering Methodology
PICS	Password Issuance Control System
PII	Personally Identifiable Information
PKI	Public Key Infrastructure
PM	Program Manager
PMO	Program Management Office
PMP	Project Management Plan
POA&M	Plan of Action and Milestones
PRR	Production Readiness Review
PSD	Personnel Security Division
PTA	Privacy Threshold Analysis
PTE	Performance Test Environment
PWS	Performance Work Statement
QASP	Quality Assurance Surveillance Plan
QC	Quality Control
RACI	Responsible, Accountable, Consulted, Informed
RDBMS	Relational Database Management System
RFP	Request for Proposal
RMP	Risk Management Plan
RMT	Risk Management Team
ROM	Risk and Opportunity Management
RPR	Release Planning Review
RRR	Release Readiness Review

Acronym	Definition
RTM	Requirements Traceability Matrix
S3	Simple Storage Service
SA	Security Authorization
SAM	System for Award Management
SAMS	Supplier Assessment Management System
SAN	Storage Area Network
SAP	Security Accreditation Package
SAR	Security Assessment Report
SAS	System Architecture Skeleton
SAT	System Acceptance Test
SB	Small Business
SCAMPI	Standard CMMI Appraisal Method for Process Improvement
SCORM	Sharable Content Object Reference Model
SDB	Small Disadvantaged Business
SDD	System Design Document
SDLC	Software Development Lifecycle
SDR	System Definition Review
SDVO SB	Service-disabled Veteran-owned Business
SEER-SEM	Software Evaluation and Estimation of Resources Software Estimating Model
SELC	Systems Engineering Lifecycle
SFT	System/ Functional Test
SIT	Secondary Inspection Tool
SIT	System Integration Test
SLA	Service Level Agreement
SLOC	Software Lines of Code
SME	Subject Matter Expert
SOA	Service-Oriented Architecture
SOC	Security Operations Center
SOP	Standard Operating Procedure
SPAR	Supplier Performance Assessment Report
SPII	Sensitive Personally Identifiable Information
SPT	System Performance Test
SR&D	Sprint Review and Demo
SRD	System Requirements Document
SSP	System Security Plan
SSR	Summary Subcontract Report
SW	Software
T&M	Time and Material
T3G	Templates, Tools, Training, and Guidance
TCO	Total Cost of Ownership
TEMP	Test and Evaluation Master Plan
TIN	Taxpayer Identification Number

Acronym	Definition
TINA	Truth in Negotiations Act
TRR	Test Readiness Review
UI	User Interface
UML	Unified Modeling Language
US-CERT	U. S. Computer Emergency Readiness Team
US-VISIT	United States Visitor and Immigrant Status Indicator Technology
VAB	Value Added Base
VOS	Vendor Outreach Session
VOSB	Veteran-owned Small Business
WBS	Work Breakdown Structure
WOSB	Women-owned Small Business

**Performance Work Statement (PWS) for Homeland Advanced Recognition
Technology (HART) system**

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