

National Geospatial-Intelligence Agency (NGA)

Moving Target Indicator (MTI) Software Modernization

Request for Quote (RFQ) - NTIAG18179AS49

eBuy RFQ: RFQ1306427

July 17, 2018

1.0 PURPOSE

The National Geospatial-Intelligence Agency (NGA), Office of Contract Services (OCS), hereby issues this Request for Quote (RFQ) to procure services in support of the attached Statement of Objectives (SOO). This solicitation will be accomplished using the terms and conditions of the RFQ and of the offeror's Master Contract under the GSA Federal Supply Schedule (FSS) contract, Schedule 70, General Purpose Commercial Information Technology Equipment, Software, and Services, under Special Item Number (SIN) 132 51.

2.0 BACKGROUND

NGA intends to retire its current traditional data center and replace it with a cloud-based computing environment. This necessitates migrating motion imagery data — MTI, Video, Wide Area Motion Imagery, and the associated operational capabilities to the cloud.

3.0 SCOPE AND OBJECTIVES

3.1 Scope

The scope of this effort is to develop capabilities to ingest, discover, retrieve and visualize MTI data (STANAG 4607, STANAG 4676, and mission data) in the cloud across multiple security domains. To fulfill the objectives

for performance of this task order, the Vendor must meet the user needs described in the following subsections. Please note that, in subsequent sprints, we may refine these objectives to ensure we are continually meeting user needs. In agreement with the product owner, we may modify, add, retract, or reprioritize elements from the backlog.

3.1.2 Develop capabilities using agile software development practices: The offeror shall deliver capabilities defined by epics and user stories managed from an evolving and prioritized program backlog. The program backlog shall be established and maintained by the Government-assigned product owner in collaboration with the offeror’s agile development team.

3.1.3 Deliver on Demand: Deployments of production release candidates shall occur on a cadence established by the Government-assigned product owner.

3.1.4 Offeror and Integrator DevOps Collaboration: The offeror shall collaborate with a Government-assigned Integrator team to ensure the streamlined and successful deployment, integration, and ongoing support of production releases into SC2S. The Government-assigned product owner shall approve deployment of production release candidates. The Integrator shall complete the security C&A process, deploy approved production releases into SC2S, and lead user acceptance testing activities. Collaboration between the offeror and Integrator shall span across design, development, and testing activities performed prior to SC2S deployments as well as deployment and post-deployment activities as deemed necessary and appropriate. The offeror and Integrator shall collaborate in attaining Authority to Test (ATT) and Authority to Operate (ATO) on SC2S. The offeror and Integrator shall collaborate to ensure that all Solution code, testing, and documentation artifacts comply with all pertinent governance mandates and meet the level of quality necessary to achieve successful integration, operation, and maintenance of offeror-developed software capabilities in SC2S.

3.2 Objectives Backlog

3.2.1 MTI Streaming Data Epic — As a content service provider, I want to ingest, store, and expose STANAG 4607 and STANAG 4676 streaming data so that downstream systems and applications can consume the data.

Below is a high-level overview of this epic. The story map is a starting point for the definition of user stories under this epic by the Government-assigned product owner in collaboration with the vendor’s agile software development team.

Processing Step	Sub-Epics/Coarse-Grained Features	Acceptance Criteria
	Ingest streaming data via multicast protocols	<ul style="list-style-type: none">• Data integrity is enforced and
	Ingest STANAG 4607 formats 1, 2, and 3	

INGEST	Ingest STANAG 4676 in JSON and Edition-1 formats	<p>preserved</p> <ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
INDEX / CATALOG	Index all streaming MTI data	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
	Index to support search, discovery, and retrieval of streaming data	
MISSION MANAGEMENT / STATUS	Expose streaming data (MTI and metadata) so that it is readily consumable by external visualization / display applications /services	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
	Expose metadata	
	Provide a web-interface to present a textual, configurable list of streaming missions and status	
		<ul style="list-style-type: none"> • Applicable security

DISCOVER & RETRIEVE	Enable discovery and retrieval of a portion of a streamed mission based on geospatial criteria, temporal criteria, platform ID, type of platform, etc.	controls are enforced <ul style="list-style-type: none"> • Performance requirements and SLAs are met
VISUALIZATION	Display STANAG 4607 and STANAG 4676 streaming data and associated metadata on an enterprise mapping service that conforms to OGC standards. Current enterprise mapping service is GEOINT Visualization Services (GVS) / Map of the World (MoW)	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
STORE	Enable streaming data to be stored in an enterprise cloud storage service	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met

3.2.2 MTI File Data Epic — As a content service provider I want to ingest, store, and expose STANAG 4607 and STANAG 4676 MTI files and associated mission data so that downstream systems and applications can consume them.

Below is a high-level story map for this epic. The story map is a starting point for the definition of user stories under this epic by the Government-assigned product owner in collaboration with the vendor's agile software development team.

Processing Step	Sub-Epics/Coarse-Grained Features	Acceptance Criteria
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INGEST	Ingest MTI files (STANAG 4607, STANAG 4676) and associated mission data (e.g. imagery, chat logs, audio, etc.)	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
	Process/Condition MTI file data	
	Create sanitized/declassified MTI file for general release	
	Maintain relational links between MTI files and associated mission data	
INDEX / CATALOG	Index all MTI file data	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
	Link MTI data with associated mission data	
	Enable metadata lifecycle management	
	Index to support search, discovery, and retrieval of MTI and associated mission data	
MISSION MANAGEMENT	Expose MTI and metadata so that it is readily consumable by external visualization / display applications /services	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements
	Expose mission data	

/ STATUS		and SLAs are met
	Provide a web-interface to present a textual, configurable list of MTI file data and associated mission data	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
DISCOVER & RETRIEVE	Enable discovery and retrieval of a portion of an archived MTI mission based on geospatial criteria, temporal criteria, platform ID, type of platform, etc.	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
	Enable discovery and retrieval of mission data associated with MTI mission based on mission ID	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
VISUALIZATION	Display STANAG 4607 and STANAG 4676 file data and associated metadata on an enterprise mapping service that conforms to OGC standards. Current enterprise mapping service is GEOINT Visualization Services (GVS) / Map of the World (MoW)	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
		<ul style="list-style-type: none"> • Data integrity is

STORE	Enable MTI file data and associated mission data to be stored in an enterprise cloud storage service	enforced and preserved <ul style="list-style-type: none">• Applicable security controls are enforced• Performance requirements and SLAs are met
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3.2.3 Data Management Epic — As a content service provider I want the ability to manage metadata (create, read, update, and delete (CRUD)) associated with any and all MTI streaming data, data files, and mission data.

3.2.4 Ancillary / Enabling - Adopt, adapt, or build ancillary open services to be exposed or consumed in a cloud-based enterprise to meet operational performance and efficiency requirements as further defined for STANAG 4607 & 4676 data and data-types (latency, fidelity, compliance).

3.3 List of Deliverables with Quality Assurance Surveillance Plan (QASP)

To satisfy the needs of the Agency, the following deliverables shall be provided by the conclusion of performance. The COR will evaluate the performance objectives of deliverables through surveillance as reflected below by reviews and acceptance of work products and services. As indicated, the Contracting Officer Representative (COR) will assess progress towards the final delivered software code. Note that the performance requirements listed below are required for the final deliverable; however, the Government will assess the sprints and incremental delivery of code, to ensure that the offeror is on a path to successful final delivery (see [QASP, ATTACHMENT 02](#)).

Deliverable or Required Services	Performance Standard(s)	Acceptable Quality Level	Method of Surveillance*
Tested Code	Code delivered under the order must have substantial test code coverage and a clean code base Version-controlled NGA GitHub repository of code that comprises product that will remain in the NGA government domain	Minimum of 90% test coverage of all relevant code	
Properly Styled Code	18F Front-End Guide	0 linting errors and 0 warnings	
Accessible	Web Content Accessibility Guidelines 2.0 AA (WCAG 2.0 AA) standards	0 errors reported for WCAG 2.0 AA standards using an automated scanner and 0 errors reported in manual testing	
Deployed	Code must successfully build and deploy into staging environment.	Successful build with a single command	
Documentation	All dependencies are listed and the licenses are documented. Major functionality in the software/source code is documented. Individual methods are documented inline using comments that permit the use tools such as JsDoc. System diagram is provided.	Combination of manual review and automatic testing, if available	
Secure	OWASP Application Security Verification Standard 3.0	Code submitted must be free of medium- and high-level static and dynamic security vulnerabilities	

* The government will determine the method of surveillance and frequency of surveillance based on the successful offeror's PWS.

4.0 PERIOD OF PERFORMANCE

This order shall be comprised of **one (1)** base period of **six (6)** calendar months and **two (2)** option periods of **six (6)** calendar months each. The total potential period of performance is **18 months**.

5.0 PLACE OF PERFORMANCE

The primary place of performance will be at the contractor's facility.

6.0 CONTRACT TYPE

The Government anticipates awarding a Time-and-Materials (T&M) type task order against company's existing General Services Administration (GSA) Schedule Information Technology 70 (IT 70) contract.

7.0 OPERATING CONSTRAINTS (NON-FUNCTIONAL REQUIREMENTS)

7.1 PERSONNEL SKILLS AND KNOWLEDGE

The offeror shall provide qualified personnel with relevant experience and domain knowledge in line with the Statement of Objectives, in terms of necessary skills and the requisite level of knowledge and experience. The offeror shall assign those persons whose resumes are submitted with its quotation and who are identified in the offeror's quotation as Key Personnel. All offeror employees assigned to perform this task order will be Key Personnel. Broadly, a team assigned to perform on this task order should have experience with:

7.1.1 Building and testing web-based or mobile applications: user-centric design practices, usability testing, user experience design, visual design, cloud deployment, open-source login / authentication services, Agile and Scrum methodologies, etc.; AND

7.1.2 Parsing binary data streams.

7.2 ENVIRONMENT

Develop the Solution for Deployment in SC2S: The offeror shall deliver the Solution as incremental,

production-ready software releases optimized to operate within SC2S. SC2S is a classified AWS cloud-computing environment, for Government use, that hosts the subset of commercial AWS-derived services described in [attachment 04a: AWS Cloud Service Availability](#). The offeror may leverage the AWS services listed in attachment 04a as part of the Solution. The offeror may not incorporate non-AWS services into the Solution unless the services are native to the code base developed by the offeror. As additional service offerings from the AWS commercial cloud gain approval for deployment in SC2S, the offeror may incorporate them into subsequent releases (see [ATTACHMENT 04a](#)).

8.0 INSTRUCTIONS AND EVALUATION

Please submit your quotation in accordance with the instructions specified in this RFQ, the terms and conditions of your GSA Schedule Contract, and the prices contained therein. Please ensure that your response includes all requested information and that your technical response clearly demonstrates your company’s capability to perform the objectives in the SOO.

These are the milestones provided for this solicitation:

No.	Due Dates	Acquisition Event
1	17JUL18	Solicitation released
2	20JUL18 by 1700EST	Questions due
3	23JUL18 by 1700EST	Letters of Intent
4	31JUL18 by 1700EST	Quotes due (Technical and Price)
5	TBD	Award decision

Page size for all documents provided shall be **8.5 x 11** inches and shall be single spaced with at least **1** inch margins for all sides. The font size shall be no less than **12 points**. Files **shall not** be zipped (.zip).

Do not lock or encrypt any files submitted as part of the proposal submission. Perform a virus check prior to submitting any files; a virus infected file may cause rejection of that file and could result in the offeror no longer being considered for award. All questions related to this RFQ and the above Acquisition Events shall be submitted via the GitHub or submitted to GSA eBuy RFQ1306427 by the due date. If you have any issue submitting questions, please contact the following:

Karen L. Eichelberger	Contracting Officer	Karen.L.Eichelberger@nga.mil
KieArra Shorter	Contract Specialist	KieArra.M.Shorter@nga.mil

This procurement is being conducted in accordance with FAR Subpart 8.4, Federal Supply Schedules. This is not a FAR Part 15, Contracting by Negotiation, procurement. All submissions in response to this RFQ are considered quotations and not proposals or offers, even if labeled as such. The offerors agree to and are bound by all instructions, procedures and rules of this RFQ under Part 8. The Government is not obligated to determine a competitive range, conduct discussions, solicit final revised quotations, or use other techniques associated with FAR Part 15. The contracting techniques associated with FAR Part 15.3 do not apply in any way, shape, or form to this action.

8.1 INSTRUCTIONS FOR WRITTEN QUOTATIONS

Written quotes in accordance with this RFQ (all sections) are to be submitted to GSA eBuy RFQ1306427, by no later than **1700 EST on JULY 31th, 2018**. Quotes not submitted to GSA eBuy RFQ1306427, or not received by the above deadline, will NOT be evaluated. Contact the Contracting Officer and/or the Contract Specialist if you have not received a confirmation of receipt within 24 hours of your quote submission.

Your written quote shall contain the following sections:

- **Staffing Plan including Key Personnel information** (Resumes and any Letters of Intent); the Staffing Plan has a **three (3) page** limit, with a **two (2) page** limit per Resume and a **one (1) page** limit per Letter of Intent,
- **Performance Work Statement (PWS)** responsive to the SOO; with **five (5) page** limit total;
- **Similar Experience; three (3) pages** per project, requisite project code submitted via Git repository **does not** count against page limitation; AND
- **Completed Price Quote** ([template provided](#)).

8.1.1 STAFFING PLAN (Factor 1)

Describe your staffing plan based on your technical understanding and approach for the requirements with an estimated level of effort to complete.

Provide a comprehensive list of all proposed key personnel by name, title, duties, roles, and include a subsequent resume for each proposed key personnel. Each resume shall include a brief description of the relevant experience and capability of the personnel proposed, as well as address the individual's technical background, education, work experience, and accomplishments as they relate to the activities required in this solicitation. If proposing key personnel who are not currently employed or a teaming partner, then you are also required to provide a signed letter of intent. Resumes shall not exceed **two (2) pages** in length.

8.1.2 PERFORMANCE WORK STATEMENT (Factor 2)

Provide your technical understanding and approach to the performance objectives (SOO) under Section 3 - Scope and Objectives requirements. The PWS may include any relevant information on framework, tools,

technologies and processes. The estimated level of effort shall include a breakdown of labor categories, including the title, number of personnel, and hours. The page limit for the PWS is **five (5) pages**. Do not submit price related information with the written PWS.

8.1.3 SIMILAR EXPERIENCE (Factor 3)

Provide a list of at least two (2), but no more than three (3) relevant projects delivered either by the offeror, by a Teaming Partner proposed in response to this solicitation, or by any Key Personnel proposed in response to this solicitation. Please identify how your proposed team was involved in the project.

8.1.3.1 Links to the Git repository (either credentialed or public) that includes the source code developed and accepted for the relevant projects must be provided;

8.1.3.2 The projects must have been delivered by either a) the offeror itself or, alternatively, b) a teaming partner that is proposed in response to this solicitation, or, alternatively, c) any key personnel that is being proposed in response to this solicitation. Please identify how the offeror's team was involved in the development. Offerors that include similar experience of the same key personnel who directly participated in the cited similar experience will be ranked higher than those who propose projects that did not involve their key personnel;

8.1.3.3 If you fail to submit at least two (2) relevant code repositories in the same language as proposed for this requirement you will be deemed non-responsive and not be considered for award;

8.1.3.4 Code repositories submitted must have been for projects completed within the past three (3) calendar years, with staffing profiles of approximately five (5) to nine (9) Full Time Equivalent (FTE) personnel.

Quotes that fail to include any of the required information identified under 8.1 above will not be considered for award. Inclusion of caveats, assumptions, or exceptions to the requirement of any kind, in any part of the submission, will result in the offeror no longer being considered for award.

8.1.4 Price Quote

Offerors should complete both tabs of the pricing template ([ATTACHMENT 03](#)). The first tab is for the base period of six months, the second tab is for the first option period of six months, and the third tab is for the second option period of six months. For purposes of pricing the option period, the offeror should assume continued performance by all members of the proposed team at full operating capacity for the duration of the performance period. **The price quotation must be received no later than the due date indicated above.** All proposed labor rates must be consistent with the terms, conditions, and rates of your GSA Schedule Master Award. Proposed labor rates must be fully burdened and include profit, fringe benefits, salary, indirect rates, and the Contract Access Fee (CAF).

The Price Quote shall also contain a cover page containing the following information:

- GSA Contract Number
- Cage Code
- DUNS number
- Tax ID or Business Size
- Validity period for quote (minimum of 90 days)
- Company Point of Contact (name, phone number, email address)
- Payment terms
- Indicate any discounts from your GSA established rates
- GSA eBuy RFQ1306427
- Request for Quote (RFQ) - NTIAG18179AS49

Inclusion of caveats, assumptions, or exceptions to the requirement of any kind, in any part of the submission, will result in the offeror no longer being considered for award.

9.0 EVALUATION AND BASIS FOR AWARD

9.1 Evaluation Process

The final award for this requirement will be based on best-value principles, utilizing the trade-off process. Accordingly, award will be made to the responsible and technically acceptable offeror whose quotation provides the greatest overall value to the Government, price and other factors considered.

The Government is more concerned with obtaining superior technical capabilities than with making awards at the lowest overall price to the Government. However, the Government will not make awards at a significantly higher overall price to achieve slightly superior technical value. Offerors are advised that the technical evaluation factors combined are significantly more important than price.

The evaluation factors for award are as follows in descending order of importance:

- Factor 1: Staffing Plan
- Factor 2: Technical Understanding and Approach
- Factor 3: Similar Experience
- Factor 4: Price

9.1.1 Technical Evaluation

We will review your responses to ensure they demonstrate an understanding of the requirements outlined in the proposed PWS, particularly Section 3, and the strength of the proposed development expertise, agile practices, and implementation of UX design. For each requested section, the Government will review the following:

- **Staffing Plan:** The Government will evaluate the offeror's proposed staffing methodology and skill levels/labor categories as well as the availability and relevant work experience demonstrated by Key Personnel.
- **Technical Understanding and Approach:** The Government will evaluate the offeror's technical approach: level of knowledge, technical expertise, and overall understanding of the requirement. The Government will also evaluate the offeror's skills with open source software development, human-centered design, and continuous deployment methods.
- **Similar Experience:** The Government will evaluate the offeror's experience in performing projects of similar scope and complexity. The Government will also evaluate the offeror's experience with open source software development, human-centered design, and continuous deployment methods.

9.1.2 Price Evaluation

Each offeror's price quotation will be evaluated separately from the technical response. Note that as submissions become more technically equal in their merit, the evaluated price becomes more important.

10.0 BASIS FOR AWARD

The final award for this requirement will be based on best-value principles per FAR 8.405-2. Accordingly, award will be made to the responsible and technically acceptable offeror whose quote provides the greatest overall value to the Government, price and other factors considered.

This best-value determination will be accomplished by comparing the value of the differences in the technical factors for competing offers under consideration in the technical evaluation, based on their strengths, weaknesses, and risks, with differences in their price to the Government.

In making this comparison, the Government is more concerned with obtaining superior technical and management capabilities than with making awards at the lowest overall price to the Government. However, the Government will not make awards at a significantly higher overall price to achieve slightly superior technical value. Offerors are advised that the technical evaluation factors combined are significantly more important than price.

11.0 CONTRACT ADMINISTRATION

11.1 KEY PERSONNEL

Key personnel and staffing requirements will be defined at the TO level. The name and resume of key personnel shall be designated in writing to the CO for approval. Prior to removing, replacing, or diverting any key personnel, the Offeror shall notify the CO no less than fifteen (15) calendar days in advance and shall

submit a proposed replacement for Government review within fifteen (15) days of notification. The Government retains the right, at its discretion, to reject any proposed replacements of key personnel.

11.2 ATTACHMENTS

Attachment Number	Description
01	SOO
02	QASP
03	Pricing Template
04a	Available AWS Environment Services & Tools
04b	MTI Backlog
05	Clauses & Provisions

National Geospatial-Intelligence Agency (NGA)

Moving Target Indicator (MTI) Software Modernization

Attachment 01: Scope and Objectives

Develop capabilities to ingest, discover, retrieve and visualize MTI data (STANAG 4607, STANAG 4676, and mission data) in the cloud across multiple security domains. To fulfill the objectives for performance of this task order, the Vendor must meet the user needs described in the following subsections. Please note that, in subsequent sprints, we may refine these objectives to ensure we are continually meeting user needs. In agreement with the product owner, we may modify, add, retract, or reprioritize elements from the backlog.

Backlog

1. MTI Streaming Data Epic

As a content service provider I want to ingest, store, and expose STANAG 4607 and STANAG 4676 streaming data so that downstream systems and applications can consume the data.

Below is a high-level story map for this epic. The story map is a starting point for the definition of user stories under this epic by the Government-assigned product owner in collaboration with the vendor’s Agile software development team.

Processing Step	Sub-Epics/Coarse-Grained Features	Acceptance Criteria
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	Ingest STANAG 4676 in JSON and Edition-1 formats	<p>enforced</p> <ul style="list-style-type: none"> • Performance requirements and SLAs are met
INDEX / CATALOG	Index all streaming MTI data	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
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MISSION MANAGEMENT / STATUS	Expose streaming data (MTI and metadata) so that it is readily consumable by external visualization / display applications /services	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
	Expose metadata	
	Provide a web-interface to present a textual, configurable list of streaming missions and status	
DISCOVER & RETRIEVE	Enable discovery and retrieval of a portion of a streamed mission based on geospatial criteria, temporal criteria, platform ID, type of platform, etc.	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements

		and SLAs are met
VISUALIZATION	Display STANAG 4607 and STANAG 4676 streaming data and associated metadata on an enterprise mapping service that conforms to OGC standards. Current enterprise mapping service is GEOINT Visualization Services (GVS)/Map of the World,(MoW)	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
STORE	Enable streaming data to be stored in an enterprise cloud storage service	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met

2. MTI File Data Epic

As a content service provider I want to ingest, store, and expose STANAG 4607 and STANAG 4676 MTI files and associated mission data so that downstream systems and applications can consume them.

Below is a high-level story map for this epic. The story map is a starting point for the definition of user stories under this epic by the Government-assigned product owner in collaboration with the vendor's Agile software development team.

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INGEST	Process/Condition MTI file data	<p>enforced and preserved</p> <ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
	Create sanitized/declassified MTI file for general release	
	Maintain relational links between MTI files and associated mission data	
INDEX / CATALOG	Index all MTI file data	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
	Link MTI data with associated mission data	
	Enable metadata lifecycle management	
	Index to support search, discovery, and retrieval of MTI and associated mission data	
MISSION MANAGEMENT / STATUS	Expose MTI and metadata so that it is readily consumable by external visualization / display applications /services	<ul style="list-style-type: none"> • Data integrity is enforced and preserved • Applicable security controls are enforced • Performance requirements and SLAs are met
	Expose mission data	

	Provide a web-interface to present a textual, configurable list of MTI file data and associated mission data	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
DISCOVER & RETRIEVE	Enable discovery and retrieval of a portion of an archived MTI mission based on geospatial criteria, temporal criteria, platform ID, type of platform, etc.	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
	Enable discovery and retrieval of mission data associated with MTI mission based on mission ID	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
VISUALIZATION	Display STANAG 4607 and STANAG 4676 file data and associated metadata on an enterprise mapping service that conforms to OGC standards. Current enterprise mapping service is GEOINT Visualization Services (GVS)/Map of the World, (MoW)	<ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
		<ul style="list-style-type: none"> • Data integrity is enforced and

STORE	Enable MTI file data and associated mission data to be stored in an enterprise cloud storage service	<p>preserved</p> <ul style="list-style-type: none"> • Applicable security controls are enforced • Performance requirements and SLAs are met
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3. Data Management Epic

As a content service provider I want the ability to manage metadata (create, read, update, and delete) associated with any and all MTI streaming data, data files, and mission data.

4. Develop capability for SC2S

Deliver working code to accomplish user tasks within SC2S. SC2S is an AWS classified cloud-computing environment for Government use. It has a subset of commercial AWS services with limitations currently described in attachment 04a: AWS Cloud Service Availability. The developer is limited to the AWS services listed in attachment 04a in providing their solution. Amazon continually introduces more services from the current AWS commercial offerings into SC2S, which the developer can use for subsequent deliveries.

5. Use agile and scrum

The developer produces, tests, and delivers capability drawn from the evolving program feature backlog, in accordance with the priorities of the government product owner, for deployment into the staging environment at the end of each sprint.

6. Deliver on Demand; prepare integrator for success

The developer delivers its product and avails associated documentation to an integrator. The integrator performs the remaining security steps necessary to deploy the code to the classified environment. The integrator performs integration testing, and gains user acceptance. We anticipate regular collaboration between the developer and integrator in order to resolve any compliance or performance deltas discovered between the unclassified development-staging environment and the classified operational environment. Developer will work with the integrator to deliver code within the integrator-defined, repeatable, automated build process. Once notified of a production issue the developer will react quickly and work with the integrator to resolve the issue.

7. Address Scalability – vertical and horizontal

NGA expects MTI streams and data volumes to grow over time and the capability needs to be built on top of a scalable architecture. The architecture supports growth in users, traffic, or data size while maintaining performance. The capability scales linearly and proportionally to demand. Your design should seamlessly leverage the unlimited on-demand capacity through automated elastic scaling provided by cloud services.

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Attachment 02: Quality Assurance Surveillance Plan (QASP)

0.0 Introduction

The National Geospatial-Intelligence Agency (NGA) has developed this Quality Assurance Surveillance Plan (QASP) to evaluate contractor actions while implementing the Performance Work Statement (PWS). It is designed to provide an effective surveillance method of monitoring contractor performance for each listed objective on the Performance Requirements Summary. It also provides a systematic method to evaluate the services the contractor is required to furnish.

1.0 Standard

The contractor is responsible for management and quality control actions to meet the terms of the call order. The contractor shall perform all work required in a satisfactory manner in accordance with the requirements of the PWS. The COR shall notify the CO for appropriate action if it is likely that the contractor will not achieve successful final delivery of the software code in accordance with the performance objectives and acceptable quality levels identified below.

2.0 The Contracting Officer

The contracting officer (CO) is responsible for monitoring contract compliance, contract administration, and cost control and for resolving any differences between the observations documented by the contracting officer's representative (COR) and the contractor. The CO will designate one full-time COR as the government authority for performance management. The number of additional representatives serving as technical inspectors depends on the complexity of the services measured, as well as the contractor's performance, and must be identified and designated by the CO.

3.0 The Contracting Officer's Representative

The contracting officer's representative (COR) is designated in writing by the CO to act as his or her authorized representative to assist in administering a contract. COR limitations are contained in the written appointment letter. The COR is responsible for technical administration of the project and ensures proper government surveillance of the contractor's performance. The COR is not empowered to make any contractual commitments or to authorize any contractual changes on the government's behalf. Any changes that the contractor deems may affect contract price, terms, or conditions shall be referred to the CO for action. The COR will have the responsibility for completing QA monitoring forms used to document the inspection and evaluation of the contractor's work performance. Government surveillance may occur under the inspection of services clause for any service relating to the contract.

4.0 Performance Requirements Summary

The COR will evaluate the performance objectives through surveillance as reflected below by reviews and acceptance of work products and services. As indicated, the COR will assess progress towards the final delivered software code. Note that the performance requirements listed below are required for the final deliverable. However, the sprints and incremental delivery of code will be assessed by the government to ensure that the contractor is on a path to successful final delivery.

Deliverable or Required Services Performance Standard(s)

Deliverable or Required Services	Performance Standard(s)	Acceptable Quality Level	Method of Surveillance
Tested Code	Code delivered under the order must have substantial test code coverage and a clean code base	Minimum of 90% test coverage of all relevant code	
Properly Styled Code	18F Front-End Guide	0 linting errors and 0 warnings	
Accessible	Web Content Accessibility Guidelines 2.0 AA (WCAG 2.0 AA) standards	0 errors reported for WCAG 2.0 AA standards using an automated scanner and 0 errors reported in manual testing	
Deployed	Code must successfully build and deploy into staging environment.	Successful build with a single command	
Documentation	All dependencies are listed and the licenses are documented. Major functionality in the software/source code is documented. Individual methods are documented inline using comments that permit the use tools such as JsDoc. System diagram is provided.	Combination of manual review and automatic testing, if available	
Secure	OWASP Application Security Verification Standard 3.0	Code submitted must be free of medium- and high-level static and dynamic security vulnerabilities	

***The government will determine the method of surveillance and frequency of surveillance based on the successful offeror's PWS.**

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Attachment 03: Pricing Template

Quoters Name:

Total Proposed Cost

Period	Estimated Price
Base Period	\$ -
Option Period 1	\$ -
Option Period 2	\$ -

Total Proposed Cost \$ -

Important: This is the single dollar figure that you are submitting as your price quote.

BASE PERIOD - 6 MONTHS

Please complete all tabs.

IT 70 Labor Category	Number of Hours	\$ per hour	Total Price
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
Projected ODC(s)			\$ -
Total Estimated Cost FOR Base			\$ -

OPTION PERIOD 1 - 6 MONTHS

Please complete all tabs.

IT 70 Labor Category	Number of Hours	\$ per hour	Total Price
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
Projected ODC(s)			\$ -
Total Estimated Cost FOR Base			\$ -

OPTION PERIOD 2 - 6 MONTHS

Please complete all tabs.

IT 70 Labor Category	Number of Hours	\$ per hour	Total Price
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
		\$ -	\$ -
Projected ODC(s)			\$ -
Total Estimated Cost FOR Base			\$ -

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Attachment 04a: AWS Cloud Service Availability

Note: The implementation of some of these services is unique to TS C2S. Further exploration needed. All of the below services are available on .mil, SC2S, and TSC2S Environments.

Assumption: SC2S will implement AWS services in the same way as TS C2S.

Amazon EC2 Auto Scaling	<ol style="list-style-type: none">1. Launching Spot Instances not supported.2. Unable to invoke a Lambda function - AWS Lambda not available.3. Amazon EC2 launches instances into a VPC.4. Amazon Resource Names and endpoints have different values.5. Only signature version 4 signing supported.
AWS Billing and Cost Management	
AWS CloudFormation	<ol style="list-style-type: none">1. Might need to modify AWS CloudFormation sample templates and template snippets.2. Does not support AWS CloudFormation features and functionality after June 6, 2017.3. Does not support AWS Config4. Does not support Amazon CloudWatch Logs5. Cannot launch a stack using an IAM service role6. CloudFormer not available7. Amazon Resource Names and endpoints have different values8. Amazon EC2 launches instances and Amazon RDS DB instances into a VPC9. Only signature version 4 signing supported
AWS CloudTrail	<ol style="list-style-type: none">1. Amazon Resource Names and endpoints have different values.2. Only signature version 4 signing supported.

Amazon CloudWatch	<ol style="list-style-type: none"> 1. CloudWatch dashboards in the console are not available 2. Amazon Resource Names and endpoints have different values. 3. Only signature version 4 signing supported.
Amazon CloudWatch Events	<ol style="list-style-type: none"> 1. Scheduleing events is not available 2. Only Amazon SNS and Amazon Kinesis services are supported as targets for CloudWatch Events rules 3. Amazon Resource Names and endpoints have different values. 4. Only signature version 4 signing supported.
Amazon CloudWatch Logs	<ol style="list-style-type: none"> 1. Amazon Resource Names and endpoints have different values. 2. Only signature version 4 signing supported.
AWS CodeDeploy	<ol style="list-style-type: none"> 1. Integration with AWS Lambda not supported 2. Integration with AWS CloudFormation not supported 3. Integration with GitHub not supported 4. Integration with Elastic Load Balancing Application Load Balancers not supported 5. Amazon Resource Names and endpoints have different values. 6. Only signature version 4 signing supported.
AWS Config	<ol style="list-style-type: none"> 1. Does not support recording Amazon EC2 Dedicated Host, Amazon EC2 Systems Manager, Elastic Load Balancing, AWS CloudFormation Stacks 2. AWS Config Rules not supported
AWS Database Migration Service	<ol style="list-style-type: none"> 1. Amazon Resource Names and endpoints have different values. 2. Only signature version 4 signing supported.
AWS Data Pipeline	<ol style="list-style-type: none"> 1. Amazon Resource Names and endpoints have different values. 2. Only signature version 4 signing supported.
AWS Diode	
AWS Direct Connect	
Amazon DynamoDB	<ol style="list-style-type: none"> 1. Tagging for DynamoDB not available yet 2. DynamoDB Streams not available yet 3. Amazon Resource Names and endpoints have different values. 4. Only signature version 4 signing supported.
	<ol style="list-style-type: none"> 1. Does not not support modifying the Size, IOPS or Type

Amazon Elastic Block Store	<ol style="list-style-type: none"> 2. Cross-region features are not supported 3. Amazon EC2 launches instances into a VPC instead of using the EC2-Classical platform 4. Amazon Resource Names and endpoints have different values. 5. Only signature version 4 signing supported.
Amazon Elastic Compute Cloud	<ol style="list-style-type: none"> 1. Spot Instances are not available 2. Dedicated Instances are available, but Dedicated Reserve Instances are not supported 3. Amazon EC2 launches instances into a VPC instead of using the EC2-Classical platform 4. Automatic Instance Recovery not supported 5. Amazon Resource Names and endpoints have different values 6. Only signature version 4 signing supported 7. VM Export not available
Elastic Load Balancing	<ol style="list-style-type: none"> 1. Does not support Route 53 features 2. Does not support IPv 6 3. Amazon EC2 launches instances into a VPC instead of using the EC2-Classical platform 4. Amazon Resource Names and endpoints have different values. 5. Only signature version 4 signing supported.
Amazon EMR	<ol style="list-style-type: none"> 1. Only Hadoop version 2 supported 2. Hunk not available 3. MapR not available 4. Debugging not available 5. Amazon EC2 launches instances into a VPC instead of using the EC2-Classical platform 6. Amazon Resource Names and endpoints have different values. 7. Only signature version 4 signing supported.
Amazon ElastiCache	<ol style="list-style-type: none"> 1. Exporting ElastiCache snapshots to Amazon S3 bucket not supported 2. Amazon EC2 launches instances into a VPC instead of using the EC2-Classical platform 3. Amazon Resource Names and endpoints have different values. 4. Only signature version 4 signing supported.
Amazon Glacier	<ol style="list-style-type: none"> 1. Amazon Resource Names and endpoints have different values. 2. Only signature version 4 signing supported.

AWS Identity and Access Management	<ol style="list-style-type: none"> 1. No concept of root or account user. All C2S users are IAM users 2. Does not support adding multi-factor authentication (MFA) to IAM user or account 3. Web identity federation not available 4. Cannot upload and associate an X.509 certification with an individual IAM user 5. Cannot use IAM tags to add metadata to IAM user or role 6. Cannot use IAM tags to control permissions 7. No AWS services currently support service-linked roles 8. Amazon Resource Names and endpoints have different values. 9. Only signature version 4 signing supported.
AWS Key Management Service	<ol style="list-style-type: none"> 1. Following services integrated with AWS KMS: AWS CloudTrail, Amazon EBS, Amazon EMR, Amazon Redshift, Amazon RDS (MySQL), Amazon S3 2. Amazon Resource Names and endpoints have different values
Amazon Kinesis	<ol style="list-style-type: none"> 1. Kinesis Firehose and Kinesis Analytics not available 2. Amazon Resource Names and endpoints have different values. 3. Only signature version 4 signing supported.
Amazon Redshift	<ol style="list-style-type: none"> 1. Amazon Redshift clusters must be launch in an Amazon VPC 2. Snapshot copy not supported 3. Amazon Resource Names and endpoints have different values. 4. Only signature version 4 signing supported.
Amazon Relational Database Service	<ol style="list-style-type: none"> 1. Support MySQL, MariaDB, PostgreSQL and Oracle DB engines supported 2. Oracle TDE with AWS CloudHSM not supported 3. MySQL 5.1 minor versions not supported 4. Cross-region features, such as DB snapshot-copying across regions, not supported 5. Sharing DB snapshot with other accounts not supported 6. Enhanced Monitoring for Amazon RDS not supported 7. Amazon EC2 launches instances into a VPC instead of using the EC2-Classik platform 8. Amazon RDS DB must use exisiting VPC security groups 9. Amazon Resource Names and endpoints have different values. 10. Only signature version 4 signing supported.
	<ol style="list-style-type: none"> 1. Data always encrypted when object uploaded or copied 2. Cross-region copy operations not supported 3. Cross-region replication not supported

Amazon Simple Storage Service	<ol style="list-style-type: none"> 4. Reduced Redundancy Storage (RRS) storage class not supported 5. AWS Import/Export service not available (though can be simulated with Snowball) 6. BitTorrent support not available 7. Amazon S3 Transfer Acceleration not available 8. Amazon CloudFront not available 9. Amazon Resource Names and endpoints have different values. 10. Only signature version 4 signing supported.
Amazon Simple Notification Service	<ol style="list-style-type: none"> 1. Cannot communicate to an endpoint outside of classified networks 2. SMS or mobile push notification not supported 3. Amazon SNS signs all notification deliveries using private-public key pair based on certificates 4. Amazon Resource Names and endpoints have different values. 5. Only signature version 4 signing supported.
Amazon Simple Queue Service	<ol style="list-style-type: none"> 1. Amazon Resource Names and endpoints have different values. 2. Only signature version 4 signing supported.
Amazon Simple Workflow Service	<ol style="list-style-type: none"> 1. Amazon Resource Names and endpoints have different values. 2. Only signature version 4 signing supported.
AWS Snowball	<ol style="list-style-type: none"> 1. Amazon Resource Names and endpoints have different values. 2. Only signature version 4 signing supported.
Amazon Virtual Private Cloud	<ol style="list-style-type: none"> 1. Amazon EC2 launches instances into a VPC instead of using the EC2-Classical platform 2. VPC Internet gateways do not connect to the public Internet 3. Amazon Resource Names and endpoints have different values. 4. Only signature version 4 signing supported.

NGA Base Services residing on AWS

- Active Directory
- Domain Name Service (DNS)
- Microsoft Patching WSUS
- VPC Creation Scripts
- Software repositories such as YUM
- SMTP
- HBSS

- BMC Patrol
- ACAS (Security Scanning tool)
- Arcsight
- Carbon Black
- VDSS
- F5
- Vormetric

Available through NGA GEOINT Services

Developer Tools

- Apigee
- EventKit
- GeoGig
- GeoPackage
- GeoWave
- HiPER LOOK
- MAGE
- MrGeo
- OpenSensorHub
- OpenStreetMap
- PostgreSQL DBaaS from Crunchy Data Solutions
- Chat

DevOps Tools

- Apigee
- GitLab
- Jenkins
- Nexus
- Pivotal Cloud Foundry (Dev-East, Ops-East, Ops-West)
- Redmine
- SonarQube
- Swagger
- ThreadFix

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Attachment 04b: Backlog

Backlog

UNCLASSIFIED							
User Story ID	As a <type of user>	I need to <perform some task>	so that <achieve some goal>	Category			
		Minimum Viable Product		2.1.1 STANAG 4607	2.1.2 STANAG 4676	2.1.3 Ancilliary Enabling	Function
MGUS-21	content manager	adhere to cloud data migration guidance	I can comply with Records Management laws, regulations and policies			11cc	Anciliary
MGUS-24	content manager	associate products with source data	users can search and discover intelligence information			11ee	Anciliary
MGUS-26	content manager	automatically deliver queried data	users have access to data in a timely manner				Anciliary
MGUS-40	content manager	catalog MTI	users will have access to the source data	2b			Catalog
MGUS-41	content manager	catalog source and user generated tracks	users will have access to this information		7b		Catalog
			users are only allowed				

MGUS-47	content manager	employ a data management strategy for restricted data	access to data where they have a need to know			11bb	Anciliary
MGUS-58	content manager	import Motion GEOINT mission metadata	users can search and discover missions	1g			Ingest
MGUS-66	content manager	ingest MTI missions	missions can be catalogued which would allow for search and discovery of missions by users	1f			Ingest
MGUS-70	content manager	ingest products/reports in any of the incoming formats (i.e., .pdf, .ppt, .doc, .jpg, .txt) as provided by the data source provider	users have access to all available data			11t	Anciliary
MGUS-71	content manager	ingest STANAG 4607 format Editions 1, 2, 3	users can search and discover MTI missions	1c			Ingest
MGUS-73	content manager	ingest STANAG 4676 data	users can search and discover tracks		6f		Ingest
MGUS-91	content manager	maintain metadata at the appropriate classification levels	data is properly protected	2g			Catalog
MGUS-92	content manager	maintain metadata integrity	users can search, discover, visualize and exploit Motion GEOINT accurately	2c			Catalog
			users are able to search and				

MGUS-93	content manager	maintain modifications to metadata sets	discover Motion GEOINT more efficiently	2f			Catalog
MGUS-94	content manager	maintain non-remediated metadata from source provider	Motion GEOINT ingested is preserved in its native format			11jj	Anciliary
MGUS-107	content manager	provide MTI metadata to an enterprise supported mapping application	users are provided the most accurate visualizations	4b			Visualize
MGUS-110	content manager	provide users the ability to discover and retrieve missions	users will have access to entire missions	3a			Discovery Retrieval
MGUS-112	content manager	provide users the ability to discover and retrieve products	users will have access to products	3b			Discovery Retrieval
MGUS-113	content manager	provide users the ability to discover and retrieve source and user generated tracks associated with source data	users fully understand activity within a mission		8d		Discovery Retrieval
MGUS-119	content manager	retain metadata at least as long as the source data is stored	discovery, retrieval and analytics can be performed	2d			Catalog
MGUS-139	content manager	store metadata at the appropriate classification levels	data is properly protected	5a	10b		Store
MGUS-140	content manager	store MTI data	users will have access to the source data	5c	10d		Store
MGUS-141	content manager	store MTI data in accordance with Records Management laws, regulations and policies	users are able to search and discover data	5b	10c		Store

MGUS-150	content manager	store tracks	users will have access to the source data		10a		Store
MGUS-151	content manager	store tracks in accordance with Records Management laws, regulations and policies	users will have access to this data			11aa	Anciliary
MGUS-159	content manager	Allow user to input from a list, the source of how the track was created and what mission data	I can comply with Records Management laws, regulations and policies			11k	Anciliary
MGUS-160	cross domain solution provider	move metadata from one security domain to another in a timely manner	source data does not have to be replicated across security domains			11o	Anciliary
MGUS-203	developer	automate MTI processing	users are provided with MTI data in a timely manner	1h			
MGUS-271	enterprise ingest manager	ingest ancillary data associated with MTI missions (catalog and provide searchable mission data)	users have access to this support data provided from each MTI mission			11n	Anciliary
MGUS-272	enterprise ingest manager	ingest all simultaneous transmitted MTI data streams	users have access to all available data	1d			Ingest
MGUS-276	enterprise ingest manager	ingest common vector formatted tracks	users have access to all available data		6a		Ingest
MGUS-280	enterprise ingest manager	ingest MTI in any of the incoming configurations as provided to me by the data source provider	users have access to all available data	1b			Ingest

MGUS-282	enterprise ingest manager	ingest STANAG 4676 tracks in JSON format so that users are able to search and discover them	users are able to search and discover them		6c		Ingest
MGUS-283	enterprise ingest manager	ingest tracks(file types: shp, csv, NTRK, KML) as provided to me by the data source provider	users have access to all available data		6b		Ingest
MGUS-284	enterprise ingest manager	ingest up to 1 TB/day MTI	users have access to all available data	1e			Ingest
MGUS-316	operations lead	backup and restore data needed for operations	operations are not impacted if a data failure occurs			11p	Anciliary
MGUS-322	operations lead	manually backup and restore software and configurations needed for operations	operations are not impacted if a software failure occurs			11s	Anciliary
MGUS-437	user	access tracks	I can understand all intelligence information associated with the mission		8a		Discovery Retrieval
MGUS-909	content manager	receive data via multicast protocols	users are able to search and discover missions	1a			Ingest
MGUS-950	user	have track information associated with MTI missions	users can view all tracks tied to a mission		7d		Catalog
MGUS-395	user	access all data available based on my user profile	the widest range of data can be utilized in my exploitation analysis to			11oo	Anciliary

			address key intelligence questions				
MGUS-396	user	access all my data, services and tools from a single workstation and workflow	my daily workflow is optimized and efficient			11h	Anciliary
MGUS-401	user	access archived MTI missions from a single workflow	I can work more efficiently				Anciliary
MGUS-419	user	access live streaming MTI data (i.e., bronze data) in a timely manner	I have access to all pertinent information to satisfy my mission needs			11nn	Anciliary
MGUS-422	user	access MTI data that is standards compliant	my exploitation tools (i.e., Dot Matrix) function as expected	3g			Discovery/Retrieval
MGUS-434	user	access stored MTI data (i.e., gold data) in a timely manner	I have access to all pertinent information to satisfy my mission needs	3f			Discovery/Retrieval
MGUS-437	user	access tracks	I can understand all intelligence information associated with the mission				
MGUS-491	user	create MTI watchboxes from a single workflow	I can be notified in a timely manner when data is active within my watchbox			11f	Anciliary
			I fully				

MGUS-504	user	Ingest user generated tracks for missions	describe activity within a mission		6d		Ingest
MGUS-541	user	discover and retrieve MTI	I will have access to the source data	3n			Discovery Retrieval
MGUS-542	user	discover and retrieve MTI coincident data	I understand all intelligence information pertinent to the mission				
MGUS-569	user	discover MTI data	I have access to the source data to answer key intelligence questions	3h			Discovery Retrieval
MGUS-570	user	discover MTI dots based on geospatial information within my watchbox	I can answer key intelligence questions			11g	Ancillary
MGUS-571	user	discover MTI tracks based on geospatial information within my watchbox	I can answer key intelligence questions		8b		Discovery/Retrieval
MGUS-669	user	have a status displayed of a configurable number of recently ingested MTI missions	I know which missions has been ingested	4c			Visualize
MGUS-749	user	receive a portion of a MTI mission based on my search results	I do not have to review the entire MTI mission	3i			Discovery Retrieval
MGUS-752	user	receive timely MTI notifications	I am aware when MTI data is available within my watchbox based on my user profile				Ancillary
			I have access to all				

MGUS-773	user	retrieve MTI data based on data provider (area-COCOM)	pertinent information to satisfy my mission needs	3j			Discovery Retrieval
MGUS-774	user	retrieve MTI data based on data provider types (JSTAR/GLOBALHAWK..etc)	I have access to all pertinent information to satisfy my mission needs	3m			Discovery Retrieval
MGUS-775	user	retrieve MTI data based on platform ID	I have access to all pertinent information to satisfy my mission needs	3l			Discovery Retrieval
MGUS-776	user	retrieve MTI data based on platform unique identification tags	I have access to all pertinent information to satisfy my mission needs	3d			Discovery Retrieval
MGUS-777	user	retrieve MTI data based on time period	I have access to all pertinent information to satisfy my mission needs	3k			Discovery Retrieval
MGUS-778	user	retrieve MTI data based on user defined area	I have access to all pertinent information to satisfy my mission needs	3e			Discovery Retrieval
MGUS-864	user	upload STANAG 4676 edition 1 track files from an external source	I have access to all available intelligence information		6e		Ingest

MGUS-886	user	visualize STANAG 4607 data (i.e., dots) on an enterprise supporting mapping application	I understand everything related to a particular mission	4a			Visualize
MGUS-897	user	access live streaming MTI data (i.e., bronze data) from a single workflow	I can work more efficiently			11i	Anciliary
MGUS-897	user	access live streaming MTI tracks data (i.e., bronze data) from a single workflow	I can work more efficiently			11j	Anciliary
MGUS-899	user	visualize STANAG 4676 data (i.e., tracks) on an enterprise supporting mapping application	I understand everything related to a particular mission		9a		Visualize
MGUS-108	content manager	provide notifications to users	they are aware that new source data is available within their watchbox based on their user profile				Anciliary
MGUS-45	content manager	determine what motion imagery mission data was used	I am able to appropriately delete mission data in accordance with Records Management laws, regulations and policies			11u	Anciliary
MGUS-111	content manager	provide users the ability to discover and retrieve missions	users will have access to the desired portion of any mission	3a			Discovery Retrieval
MGUS-142	content	store source data in accordance with Records	I can efficiently manage	5d	10e		Store

	manager	Management laws, regulations and policies	storage assets				
MGUS-153	content manager	store user collected and generated products	users will have access to intelligence analysis			11w	Anciliary
MGUS-161	cross domain solution provider	provide source data to users based on queries	they have access to source data at their security domain and lower security domains	5e	10f		Store
MGUS-231	developer	expose my APIs to external systems/sites	users can search and discover additional information that is stored within my content store from DCGS	3c			Discovery Retrieva
MGUS-291	enterprise ingest manager	take appropriate action upon determination that data was corrupted (notify data manager)	I can quickly report and resolve upstream data issues			11m	Anciliary
MGUS-439	user	add chat text as tags	I can associate those tags temporally within a motion imagery mission			11pp	Anciliary
MGUS-900	user	create a user defined confidence for each trackset	I can apply a confidence to a track set for SOM reporting			11l	Anciliary
			I can visualize				

MGUS-667	user	generate heat maps	them over an enterprise supported mapping application			11mm	Anciliary
MGUS-27	content manager	automatically generate tracks from source data	users time to exploit data is optimized			11ii	Anciliary
MGUS-898	user	create MTI tags (e.g. observations)	I have access to all pertinent intelligence information to satisfy my mission needs			11rr	Anciliary
MGUS-28	content manager	catalog all source data	users are able to discover and retrieve data in a timely manner	2a			Catalog
MGUS-29	content manager	catalog all source generated and user generated metadata	users can search and discover source data		7a		Catalog
MGUS-30	content manager	catalog all user generated metadata and tags (e.g. observations) efficiently across the NSG	all intelligence information is available to the user community			11hh	Anciliary
MGUS-31	content manager	catalog chat from provider	users will have access to the source data			11ee	Anciliary
MGUS-31	content manager	catalog chat from user	users will have access to the source data			11ff	Anciliary
MGUS-42	content manager	catalog user collected and generated products (e.g. snapshots, observations, virtual clips, generated report data)	users will have access to intelligence analysis			11gg	Anciliary

MGUS-43	content manager	catalog user entered metadata	data and products are properly tagged for search, discovery and exploitation		7c		Catalog
MGUS-44	content manager	delete source data in accordance with Records Management laws, regulations and policies	I can efficiently manage storage assets			11y	Anciliary
MGUS-74	content manager	know the status on queried data from the users	I can ensure users are returned data in a timely manner				Anciliary
MGUS-103	content manager	post back user collected and generated products	users will have access to intelligence analysis			11ll	Anciliary
MGUS-104	content manager	properly associate metadata at any classification level to source data at the level stored	data duplication is minimized	2e			Catalog
MGUS-109	content manager	provide transfer MTI data to an approved Coalition content store based on an approved NGA Releasability standard	users are allowed access to MTI data that they are permitted to have			11ii	Anciliary
MGUS-114	content manager	remove unused Motion GEOINT data in accordance with Records Management laws, regulations and policies	I can efficiently manage storage assets			11x	Anciliary
MGUS-126	content manager	store chat in accordance with Records Management laws, regulations and policies	users will have access to the source data			11z	Anciliary
		store imagery and products	users have				

MGUS-135	content manager	in accordance with Records Management laws, regulations and policies	access to all available data				
MGUS-152	content manager	store unstructured data in accordance with Records Management laws, regulations and policies	users will have access to this data			11v	Anciliary
MGUS-317	operations lead	automatically backup and restore databases needed for operations	operations are not impacted if a database failure occurs			11q	Anciliary
MGUS-318	operations lead	automatically backup and restore software and configurations needed for operations	operations are not impacted if a software failure occurs			11r	Anciliary
MGUS-707	user	know that audio files are tied to missions	I can work more efficiently			11qq	Anciliary

National Geospatial-Intelligence Agency (NGA)

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Attachment 05: Clauses and Provisions

REQUEST FOR QUOTATION (THIS IS NOT AN ORDER)			THIS RFQ <input checked="" type="checkbox"/> IS <input type="checkbox"/> IS NOT A SMALL BUSINESS SET ASIDE			PAGE 1 OF 35	
1. REQUEST NO. HM047618Q0034		2. DATE ISSUED 07/17/2018		3. REQUISITION/PURCHASE REQUEST NO.		4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG.1	
5a. ISSUED BY Nat'l Geospatial-Intelligence Agen ATTN: OCSA/MS: S84-OCSA 7500 GEOINT DRIVE SPRINGFIELD VA 22150		6. DELIVERY BY (Date) Multiple					
		7. DELIVERY <input checked="" type="checkbox"/> FOB DESTINATION <input type="checkbox"/> OTHER (See Schedule)					
		9. DESTINATION					
		a. NAME OF CONSIGNEE See Schedule					
5b. FOR INFORMATION CALL: (No collect calls)							
NAME Joseph Hicks		AREA CODE 571		TELEPHONE NUMBER NUMBER 557-0828			
8. TO:							
a. NAME		b. COMPANY					
c. STREET ADDRESS		c. CITY					
d. CITY		e. STATE		f. ZIP CODE		d. STATE e. ZIP CODE	
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) 07/31/2018 1700 ES		IMPORTANT: This is a request for information, and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or services. Supplies are of domestic origin unless otherwise indicated by quote. Any representations and/or certifications attached to this Request for Quotations must be completed by the quoter.					
11. SCHEDULE (Include applicable Federal, State and local taxes)							
ITEM NO. (a)	SUPPLIES/SERVICES (b)			QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
12. DISCOUNT FOR PROMPT PAYMENT		a. 10 CALENDAR DAYS (%)		b. 20 CALENDAR DAYS (%)		c. 30 CALENDAR DAYS (%)	
						d. CALENDAR DAYS NUMBER PERCENTAGE	
NOTE: Additional provisions and representations <input type="checkbox"/> are <input type="checkbox"/> are not attached							
13. NAME AND ADDRESS OF QUOTER				14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER							
b. STREET ADDRESS				16. SIGNER			
c. COUNTY				a. NAME (Type or print)		b. TELEPHONE	
						AREA CODE	
d. CITY		e. STATE		f. ZIP CODE		c. TITLE (Type or print)	
						NUMBER	

SECTION 1 - Supplies or Services and Prices***1.1 Supplies or Services and Prices***

Item Number	Description	Quantity	Unit	Unit Price	Amount
0001	<p>BASE PERIOD - NGA - Moving Target Indicator (MTI) Software Modernization NOT-TO-EXCEED (NTE) HOURS: TBD Labor Categories: TBD</p> <p>Award Type: Time-and-materials Product/Service Code: r499</p>				
1001	<p>OPTION PERIOD 1 - NGA - Moving Target Indicator (MTI) Software Modernization NOT-TO-EXCEED (NTE) HOURS: TBD Labor Categories: TBD</p> <p>Award Type: Time-and-materials</p> <p>(Option Line Item)</p> <p>01/01/0001 Product/Service Code: r499</p>				
2001	<p>OPTION PERIOD 2 - NGA - Moving Target Indicator (MTI) Software Modernization NOT-TO-EXCEED (NTE) HOURS: TBD Labor Categories: TBD</p> <p>Award Type: Time-and-materials</p> <p>(Option Line Item)</p> <p>01/01/0001 Product/Service Code: r499</p>				

SECTION 2 - Contract Clauses***2.1 Contract Clauses*****2.1 52.212-4 CONTRACT TERMS AND CONDITIONS - COMMERCIAL ITEMS. (JAN 2017) - ALTERNATE I (JAN 2017)**

(a) *Inspection/Acceptance.* (1) The Government has the right to inspect and test all materials furnished and services performed under this contract, to the extent practicable at all places and times, including the period

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of performance, and in any event before acceptance. The Government may also inspect the plant or plants of the Contractor or any subcontractor engaged in contract performance. The Government will perform inspections and tests in a manner that will not unduly delay the work.

(2) If the Government performs inspection or tests on the premises of the Contractor or a subcontractor, the Contractor shall furnish and shall require subcontractors to furnish all reasonable facilities and assistance for the safe and convenient performance of these duties.

(3) Unless otherwise specified in the contract, the Government will accept or reject services and materials at the place of delivery as promptly as practicable after delivery, and they will be presumed accepted 60 days after the date of delivery, unless accepted earlier.

(4) At any time during contract performance, but not later than 6 months (or such other time as may be specified in the contract) after acceptance of the services or materials last delivered under this contract, the Government may require the Contractor to replace or correct services or materials that at time of delivery failed to meet contract requirements. Except as otherwise specified in paragraph (a)(6) of this clause, the cost of replacement or correction shall be determined under paragraph (i) of this clause, but the "hourly rate" for labor hours incurred in the replacement or correction shall be reduced to exclude that portion of the rate attributable to profit. Unless otherwise specified below, the portion of the "hourly rate" attributable to profit shall be 10 percent. The Contractor shall not tender for acceptance materials and services required to be replaced or corrected without disclosing the former requirement for replacement or correction, and, when required, shall disclose the corrective action taken. [Insert portion of labor rate attributable to profit.]

(5)(i) If the Contractor fails to proceed with reasonable promptness to perform required replacement or correction, and if the replacement or correction can be performed within the ceiling price (or the ceiling price as increased by the Government), the Government may-

(A) By contract or otherwise, perform the replacement or correction, charge to the Contractor any increased cost, or deduct such increased cost from any amounts paid or due under this contract; or

(B) Terminate this contract for cause.

(ii) Failure to agree to the amount of increased cost to be charged to the Contractor shall be a dispute under the Disputes clause of the contract.

(6) Notwithstanding paragraphs (a)(4) and (5) above, the Government may at any time require the Contractor to remedy by correction or replacement, without cost to the Government, any failure by the Contractor to comply with the requirements of this contract, if the failure is due to-

(i) Fraud, lack of good faith, or willful misconduct on the part of the Contractor's managerial personnel; or

(ii) The conduct of one or more of the Contractor's employees selected or retained by the Contractor after any of the Contractor's managerial personnel has reasonable grounds to believe that the employee is habitually careless or unqualified.

(7) This clause applies in the same manner and to the same extent to corrected or replacement materials or services as to materials and services originally delivered under this contract.

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(8) The Contractor has no obligation or liability under this contract to correct or replace materials and services that at time of delivery do not meet contract requirements, except as provided in this clause or as may be otherwise specified in the contract.

(9) Unless otherwise specified in the contract, the Contractor's obligation to correct or replace Government-furnished property shall be governed by the clause pertaining to Government property.

(b) *Assignment.* The Contractor or its assignee may assign its rights to receive payment due as a result of performance of this contract to a bank, trust company, or other financing institution, including any Federal lending agency in accordance with the Assignment of Claims Act (31 U.S.C. 3727). However, when a third party makes payment (e.g., use of the Governmentwide commercial purchase card), the Contractor may not assign its rights to receive payment under this contract.

(c) *Changes.* Changes in the terms and conditions of this contract may be made only by written agreement of the parties.

(d) *Disputes.* This contract is subject to 41 U.S.C. chapter 71, Contract Disputes. Failure of the parties to this contract to reach agreement on any request for equitable adjustment, claim, appeal or action arising under or relating to this contract shall be a dispute to be resolved in accordance with the clause at FAR 52.233-1, Disputes, which is incorporated herein by reference. The Contractor shall proceed diligently with performance of this contract, pending final resolution of any dispute arising under the contract.

(e) *Definitions.* (1) The clause at FAR 52.202-1, Definitions, is incorporated herein by reference. As used in this clause-

(i) Direct materials means those materials that enter directly into the end product, or that are used or consumed directly in connection with the furnishing of the end product or service.

(ii) Hourly rate means the rate(s) prescribed in the contract for payment for labor that meets the labor category qualifications of a labor category specified in the contract that are-

(A) Performed by the contractor;

(B) Performed by the subcontractors; or

(C) Transferred between divisions, subsidiaries, or affiliates of the contractor under a common control.

(iii) Materials means-

(A) Direct materials, including supplies transferred between divisions, subsidiaries, or affiliates of the contractor under a common control;

(B) Subcontracts for supplies and incidental services for which there is not a labor category specified in the contract;

(C) Other direct costs (e.g., incidental services for which there is not a labor category specified in the contract, travel, computer usage charges, etc.);

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(D) The following subcontracts for services which are specifically excluded from the hourly rate: TBD; and

(E) Indirect costs specifically provided for in this clause.

(iv) Subcontract means any contract, as defined in FAR Subpart 2.1, entered into with a subcontractor to furnish supplies or services for performance of the prime contract or a subcontract including transfers between divisions, subsidiaries, or affiliates of a contractor or subcontractor. It includes, but is not limited to, purchase orders, and changes and modifications to purchase orders.

(f) *Excusable delays.* The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence such as, acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.

(g) *Invoice.* (1) The Contractor shall submit an original invoice and three copies (or electronic invoice, if authorized) to the address designated in the contract to receive invoices. An invoice must include-

(i) Name and address of the Contractor;

(ii) Invoice date and number;

(iii) Contract number, line item number and, if applicable, the order number;

(iv) Description, quantity, unit of measure, unit price and extended price of the items delivered;

(v) Shipping number and date of shipment, including the bill of lading number and weight of shipment if shipped on Government bill of lading;

(vi) Terms of any discount for prompt payment offered;

(vii) Name and address of official to whom payment is to be sent;

(viii) Name, title, and phone number of person to notify in event of defective invoice; and

(ix) Taxpayer Identification Number (TIN). The Contractor shall include its TIN on the invoice only if required elsewhere in this contract.

(x) Electronic funds transfer (EFT) banking information.

(A) The Contractor shall include EFT banking information on the invoice only if required elsewhere in this contract.

(B) If EFT banking information is not required to be on the invoice, in order for the invoice to be a proper invoice, the Contractor shall have submitted correct EFT banking information in accordance with the applicable solicitation

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provision, contract clause (e.g., 52.232-33, Payment by Electronic Funds Transfer-System for Award Management, or 52.232-34, Payment by Electronic Funds Transfer-Other Than System for Award Management), or applicable agency procedures.

(C) EFT banking information is not required if the Government waived the requirement to pay by EFT.

(2) Invoices will be handled in accordance with the Prompt Payment Act (31 U.S.C. 3903) and Office of Management and Budget (OMB) prompt payment regulations at 5 CFR part 1315.

(h) *Patent indemnity.* The Contractor shall indemnify the Government and its officers, employees and agents against liability, including costs, for actual or alleged direct or contributory infringement of, or inducement to infringe, any United States or foreign patent, trademark or copyright, arising out of the performance of this contract, provided the Contractor is reasonably notified of such claims and proceedings.

(i) *Payments.* (1) *Work performed.* The Government will pay the Contractor as follows upon the submission of commercial invoices approved by the Contracting Officer:

(i) Hourly rate.

(A) The amounts shall be computed by multiplying the appropriate hourly rates prescribed in the contract by the number of direct labor hours performed. Fractional parts of an hour shall be payable on a prorated basis.

(B) The rates shall be paid for all labor performed on the contract that meets the labor qualifications specified in the contract. Labor hours incurred to perform tasks for which labor qualifications were specified in the contract will not be paid to the extent the work is performed by individuals that do not meet the qualifications specified in the contract, unless specifically authorized by the Contracting Officer.

(C) Invoices may be submitted once each month (or at more frequent intervals, if approved by the Contracting Officer) to the Contracting Officer or the authorized representative.

(D) When requested by the Contracting Officer or the authorized representative, the Contractor shall substantiate invoices (including any subcontractor hours reimbursed at the hourly rate in the schedule) by evidence of actual payment, individual daily job timecards, records that verify the employees meet the qualifications for the labor categories specified in the contract, or other substantiation specified in the contract.

(E) Unless the Schedule prescribes otherwise, the hourly rates in the Schedule shall not be varied by virtue of the Contractor having performed work on an overtime basis.

(1) If no overtime rates are provided in the Schedule and the Contracting Officer approves overtime work in advance, overtime rates shall be negotiated.

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(2) Failure to agree upon these overtime rates shall be treated as a dispute under the Disputes clause of this contract.

(3) If the Schedule provides rates for overtime, the premium portion of those rates will be reimbursable only to the extent the overtime is approved by the Contracting Officer.

(ii) Materials.

(A) If the Contractor furnishes materials that meet the definition of a commercial item at 2.101, the price to be paid for such materials shall not exceed the Contractor's established catalog or market price, adjusted to reflect the-

(1) Quantities being acquired; and

(2) Any modifications necessary because of contract requirements.

(B) Except as provided for in paragraph (i)(1)(ii)(A) and (D)(2) of this clause, the Government will reimburse the Contractor the actual cost of materials (less any rebates, refunds, or discounts received by the contractor that are identifiable to the contract) provided the Contractor-

(1) Has made payments for materials in accordance with the terms and conditions of the agreement or invoice; or

(2) Makes these payments within 30 days of the submission of the Contractor's payment request to the Government and such payment is in accordance with the terms and conditions of the agreement or invoice.

(C) To the extent able, the Contractor shall-

(1) Obtain materials at the most advantageous prices available with due regard to securing prompt delivery of satisfactory materials; and

(2) Give credit to the Government for cash and trade discounts, rebates, scrap, commissions, and other amounts that are identifiable to the contract.

(D) Other Costs. Unless listed below, other direct and indirect costs will not be reimbursed.

(1) Other Direct Costs. The Government will reimburse the Contractor on the basis of actual cost for the following, provided such costs comply with the requirements in paragraph (i)(1)(ii)(B) of this clause:
TBD

(2) Indirect Costs (Material Handling, Subcontract Administration, etc.). The Government will reimburse the Contractor for indirect costs on a pro-rata basis over the period of contract performance at the following fixed price: [Insert a fixed amount for the indirect costs and payment schedule. Insert "\$0" if no fixed price reimbursement for

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indirect costs will be provided. (If this is an indefinite delivery contract, the Contracting Officer may insert "Each order must list separately the fixed amount for the indirect costs and payment schedule or, if no reimbursement for indirect costs, insert 'None')."]

(2) *Total cost.* It is estimated that the total cost to the Government for the performance of this contract shall not exceed the ceiling price set forth in the Schedule and the Contractor agrees to use its best efforts to perform the work specified in the Schedule and all obligations under this contract within such ceiling price. If at any time the Contractor has reason to believe that the hourly rate payments and material costs that will accrue in performing this contract in the next succeeding 30 days, if added to all other payments and costs previously accrued, will exceed 85 percent of the ceiling price in the Schedule, the Contractor shall notify the Contracting Officer giving a revised estimate of the total price to the Government for performing this contract with supporting reasons and documentation. If at any time during the performance of this contract, the Contractor has reason to believe that the total price to the Government for performing this contract will be substantially greater or less than the then stated ceiling price, the Contractor shall so notify the Contracting Officer, giving a revised estimate of the total price for performing this contract, with supporting reasons and documentation. If at any time during performance of this contract, the Government has reason to believe that the work to be required in performing this contract will be substantially greater or less than the stated ceiling price, the Contracting Officer will so advise the Contractor, giving the then revised estimate of the total amount of effort to be required under the contract.

(3) *Ceiling price.* The Government will not be obligated to pay the Contractor any amount in excess of the ceiling price in the Schedule, and the Contractor shall not be obligated to continue performance if to do so would exceed the ceiling price set forth in the Schedule, unless and until the Contracting Officer notifies the Contractor in writing that the ceiling price has been increased and specifies in the notice a revised ceiling that shall constitute the ceiling price for performance under this contract. When and to the extent that the ceiling price set forth in the Schedule has been increased, any hours expended and material costs incurred by the Contractor in excess of the ceiling price before the increase shall be allowable to the same extent as if the hours expended and material costs had been incurred after the increase in the ceiling price.

(4) *Access to records.* At any time before final payment under this contract, the Contracting Officer (or authorized representative) will have access to the following (access shall be limited to the listing below unless otherwise agreed to by the Contractor and the Contracting Officer):

(i) Records that verify that the employees whose time has been included in any invoice meet the qualifications for the labor categories specified in the contract;

(ii) For labor hours (including any subcontractor hours reimbursed at the hourly rate in the schedule), when timecards are required as substantiation for payment-

(A) The original timecards (paper-based or electronic);

(B) The Contractor's timekeeping procedures;

(C) Contractor records that show the distribution of labor between jobs or contracts; and

(D) Employees whose time has been included in any invoice for the purpose of verifying that these employees have worked the hours shown on the invoices.

(iii) For material and subcontract costs that are reimbursed on the basis of actual cost-

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(A) Any invoices or subcontract agreements substantiating material costs; and

(B) Any documents supporting payment of those invoices.

(5) *Overpayments/Underpayments.* Each payment previously made shall be subject to reduction to the extent of amounts, on preceding invoices, that are found by the Contracting Officer not to have been properly payable and shall also be subject to reduction for overpayments or to increase for underpayments. The Contractor shall promptly pay any such reduction within 30 days unless the parties agree otherwise. The Government within 30 days will pay any such increases, unless the parties agree otherwise. The Contractor's payment will be made by check. If the Contractor becomes aware of a duplicate invoice payment or that the Government has otherwise overpaid on an invoice payment, the Contractor shall-

(i) Remit the overpayment amount to the payment office cited in the contract along with a description of the overpayment including the-

(A) Circumstances of the overpayment (e.g., duplicate payment, erroneous payment, liquidation errors, date(s) of overpayment);

(B) Affected contract number and delivery order number, if applicable;

(C) Affected line item or subline item, if applicable; and

(D) Contractor point of contact.

(ii) Provide a copy of the remittance and supporting documentation to the Contracting Officer.

(6)(i) All amounts that become payable by the Contractor to the Government under this contract shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury, as provided in 41 U.S.C. 7109, which is applicable to the period in which the amount becomes due, and then at the rate applicable for each six month period as established by the Secretary until the amount is paid.

(ii) The Government may issue a demand for payment to the Contractor upon finding a debt is due under the contract.

(iii) Final Decisions. The Contracting Officer will issue a final decision as required by 33.211 if-

(A) The Contracting Officer and the Contractor are unable to reach agreement on the existence or amount of a debt in a timely manner;

(B) The Contractor fails to liquidate a debt previously demanded by the Contracting Officer within the timeline specified in the demand for payment unless the amounts were not repaid because the Contractor has requested an installment payment agreement; or

(C) The Contractor requests a deferment of collection on a debt previously demanded by the Contracting Officer (see FAR 32.607-2).

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(iv) If a demand for payment was previously issued for the debt, the demand for payment included in the final decision shall identify the same due date as the original demand for payment.

(v) Amounts shall be due at the earliest of the following dates:

(A) The date fixed under this contract.

(B) The date of the first written demand for payment, including any demand for payment resulting from a default termination.

(vi) The interest charge shall be computed for the actual number of calendar days involved beginning on the due date and ending on-

(A) The date on which the designated office receives payment from the Contractor;

(B) The date of issuance of a Government check to the Contractor from which an amount otherwise payable has been withheld as a credit against the contract debt; or

(C) The date on which an amount withheld and applied to the contract debt would otherwise have become payable to the Contractor.

(vii) The interest charge made under this clause may be reduced under the procedures prescribed in 32.608-2 of the Federal Acquisition Regulation in effect on the date of this contract.

(viii) Upon receipt and approval of the invoice designated by the Contractor as the "completion invoice" and supporting documentation, and upon compliance by the Contractor with all terms of this contract, any outstanding balances will be paid within 30 days unless the parties agree otherwise. The completion invoice, and supporting documentation, shall be submitted by the Contractor as promptly as practicable following completion of the work under this contract, but in no event later than 1 year (or such longer period as the Contracting Officer may approve in writing) from the date of completion.

(7) Release of claims. The Contractor, and each assignee under an assignment entered into under this contract and in effect at the time of final payment under this contract, shall execute and deliver, at the time of and as a condition precedent to final payment under this contract, a release discharging the Government, its officers, agents, and employees of and from all liabilities, obligations, and claims arising out of or under this contract, subject only to the following exceptions.

(i) Specified claims in stated amounts, or in estimated amounts if the amounts are not susceptible to exact statement by the Contractor.

(ii) Claims, together with reasonable incidental expenses, based upon the liabilities of the Contractor to third parties arising out of performing this contract, that are not known to the Contractor on the date of the execution of the release, and of which the Contractor gives notice in writing to the Contracting Officer not more than 6 years after the date of the release or the date of any notice to the Contractor that the Government is prepared to make final payment, whichever is earlier.

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(iii) Claims for reimbursement of costs (other than expenses of the Contractor by reason of its indemnification of the Government against patent liability), including reasonable incidental expenses, incurred by the Contractor under the terms of this contract relating to patents.

(8) Prompt payment. The Government will make payment in accordance with the Prompt Payment Act (31 U.S.C. 3903) and prompt payment regulations at 5 CFR part 1315.

(9) Electronic Funds Transfer (EFT). If the Government makes payment by EFT, see 52.212-5(b) for the appropriate EFT clause.

(10) Discount. In connection with any discount offered for early payment, time shall be computed from the date of the invoice. For the purpose of computing the discount earned, payment shall be considered to have been made on the date that appears on the payment check or the specified payment date if an electronic funds transfer payment is made.

(j) *Risk of loss.* Unless the contract specifically provides otherwise, risk of loss or damage to the supplies provided under this contract shall remain with the Contractor until, and shall pass to the Government upon:

(1) Delivery of the supplies to a carrier, if transportation is f.o.b. origin; or

(2) Delivery of the supplies to the Government at the destination specified in the contract, if transportation is f.o.b. destination.

(k) *Taxes.* The contract price includes all applicable Federal, State, and local taxes and duties.

(l) *Termination for the Government's convenience.* The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid an amount for direct labor hours (as defined in the Schedule of the contract) determined by multiplying the number of direct labor hours expended before the effective date of termination by the hourly rate(s) in the contract, less any hourly rate payments already made to the Contractor plus reasonable charges the Contractor can demonstrate to the satisfaction of the Government using its standard record keeping system that have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.

(m) *Termination for cause.* The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon written request, with adequate assurances of future performance. Subject to the terms of this contract, the Contractor shall be paid an amount computed under paragraph (i) Payments of this clause, but the "hourly rate" for labor hours expended in furnishing work not delivered to or accepted by the Government shall be reduced to exclude that portion of the rate attributable to profit. Unless otherwise specified in paragraph (a)(4) of this clause, the portion of the "hourly rate" attributable to profit shall be 10 percent. In the event of termination for cause, the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.

(n) *Title.* Unless specified elsewhere in this contract, title to items furnished under this contract shall pass to the Government upon acceptance, regardless of when or where the Government takes physical possession.

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(o) *Warranty.* The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(p) *Limitation of liability.* Except as otherwise provided by an express warranty, the Contractor will not be liable to the Government for consequential damages resulting from any defect or deficiencies in accepted items.

(q) *Other compliances.* The Contractor shall comply with all applicable Federal, State and local laws, executive orders, rules and regulations applicable to its performance under this contract.

(r) *Compliance with laws unique to Government contracts.* The Contractor agrees to comply with 31 U.S.C. 1352 relating to limitations on the use of appropriated funds to influence certain Federal contracts; 18 U.S.C. 431 relating to officials not to benefit; 40 U.S.C. chapter 37, Contract Work Hours and Safety Standards; 41 U.S.C. chapter 87, Kickbacks; 41 U.S.C. 4712 and 10 U.S.C. 2409 relating to whistleblower protections; 49 U.S.C. 40118, Fly American; and 41 U.S.C. chapter 21 relating to procurement integrity.

(s) *Order of precedence.* Any inconsistencies in this solicitation or contract shall be resolved by giving precedence in the following order: (1) the schedule of supplies/services; (2) The Assignments, Disputes, Payments, Invoice, Other Compliances, Compliance with Laws Unique to Government Contracts, and Unauthorized Obligations paragraphs of this clause; (3) the clause at 52.212-5; (4) addenda to this solicitation or contract, including any license agreements for computer software; (5) solicitation provisions if this is a solicitation; (6) other paragraphs of this clause; (7) the Standard Form 1449; (8) other documents, exhibits, and attachments; and (9) the specification.

(t) *System for Award Management (SAM)* (1) Unless exempted by an addendum to this contract, the Contractor is responsible during performance and through final payment of any contract for the accuracy and completeness of the data within the SAM database, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the SAM database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the SAM database to ensure it is current, accurate and complete. Updating information in the SAM does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(2)(i) If a Contractor has legally changed its business name, "doing business as" name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in FAR subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to (A) change the name in the SAM database; (B) comply with the requirements of subpart 42.12; and (C) agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.

(ii) If the Contractor fails to comply with the requirements of paragraph (t)(2)(i) of this clause, or fails to perform the agreement at paragraph (t)(2)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the SAM information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.

(3) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the SAM record to reflect an assignee for the purpose of assignment of claims (see Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the SAM

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database. Information provided to the Contractor's SAM record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of payment" paragraph of the EFT clause of this contract.

(4) Offerors and Contractors may obtain information on registration and annual confirmation requirements via SAM accessed through <https://www.acquisition.gov>.

(u) *Unauthorized Obligations.* (1) Except as stated in paragraph (u)(2) of this clause, when any supply or service acquired under this contract is subject to any End User License Agreement (EULA), Terms of Service (TOS), or similar legal instrument or agreement, that includes any clause requiring the Government to indemnify the Contractor or any person or entity for damages, costs, fees, or any other loss or liability that would create an Anti-Deficiency Act violation (31 U.S.C. 1341), the following shall govern:

(i) Any such clause is unenforceable against the Government.

(ii) Neither the Government nor any Government authorized end user shall be deemed to have agreed to such clause by virtue of it appearing in the EULA, TOS, or similar legal instrument or agreement. If the EULA, TOS, or similar legal instrument or agreement is invoked through an "I agree" click box or other comparable mechanism (e.g., "click-wrap" or "browse-wrap" agreements), execution does not bind the Government or any Government authorized end user to such clause.

(iii) Any such clause is deemed to be stricken from the EULA, TOS, or similar legal instrument or agreement.

(2) Paragraph (u)(1) of this clause does not apply to indemnification by the Government that is expressly authorized by statute and specifically authorized under applicable agency regulations and procedures.

(v) *Incorporation by reference.* The Contractor's representations and certifications, including those completed electronically via the System for Award Management (SAM), are incorporated by reference into the contract.

(End of clause)

2.2 52.217-5 EVALUATION OF OPTIONS. (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

(End of provision)

2.3 52.217-8 OPTION TO EXTEND SERVICES. (NOV 1999)

The Government may require continued performance of any services within the limits and at the rates specified in the contract. These rates may be adjusted only as a result of revisions to prevailing labor rates provided by the Secretary of Labor. The option provision may be exercised more than once, but the total extension of performance hereunder shall not exceed 6 months. The Contracting Officer may exercise the option by written notice to the Contractor within 30 days of the contract end-date..

2.4 52.217-9 OPTION TO EXTEND THE TERM OF THE CONTRACT. (MAR 2000)

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(a) The Government may extend the term of this contract by written notice to the Contractor within 15 days; provided that the Government gives the Contractor a preliminary written notice of its intent to extend at least 15 days (*60 days unless a different number of days is inserted*) before the contract expires. The preliminary notice does not commit the Government to an extension.

(b) If the Government exercises this option, the extended contract shall be considered to include this option clause.

(c) The total duration of this contract, including the exercise of any options under this clause, shall not exceed 18 months(months)(years).

(End of clause)

2.5 52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS. (NOV 2016)

2.6 52.219-16 LIQUIDATED DAMAGES - SUBCONTRACTING PLAN. (JAN 1999)

2.7 252.201-7000 CONTRACTING OFFICER'S REPRESENTATIVE. (DEC 1991)

2.8 252.203-7000 REQUIREMENTS RELATING TO COMPENSATION OF FORMER DOD OFFICIALS. (SEP 2011)

2.9 252.203-7002 REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS. (SEP 2013)

2.10 252.203-7003 AGENCY OFFICE OF THE INSPECTOR GENERAL. (DEC 2012)

2.11 252.204-7000 DISCLOSURE OF INFORMATION. (OCT 2016)

2.12 252.204-7003 CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT. (APR 1992)

2.13 252.204-7006 BILLING INSTRUCTIONS. (OCT 2005)

2.14 252.204-7009 LIMITATIONS ON THE USE OR DISCLOSURE OF THIRD-PARTY CONTRACTOR REPORTED CYBER INCIDENT INFORMATION. (OCT 2016)

(a) *Definitions.* As used in this clause-

Compromise means disclosure of information to unauthorized persons, or a violation of the security policy of a system, in which unauthorized intentional or unintentional disclosure, modification, destruction, or loss of an object, or the copying of information to unauthorized media may have occurred.

Controlled technical information means technical information with military or space application that is subject to controls on the access, use, reproduction, modification, performance, display, release, disclosure, or dissemination. Controlled technical information would meet the criteria, if disseminated, for distribution statements B through F using the criteria set forth in DoD Instruction 5230.24, Distribution Statements on Technical Documents. The term does not include information that is lawfully publicly available without restrictions.

Covered defense information means unclassified controlled technical information or other information (as described in the Controlled Unclassified Information (CUI) Registry at

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<http://www.archives.gov/cui/registry/category-list.html>) that requires safeguarding or dissemination controls pursuant to and consistent with law, regulations, and Governmentwide policies, and is-

- (1) Marked or otherwise identified in the contract, task order, or delivery order and provided to the contractor by or on behalf of DoD in support of the performance of the contract; or
- (2) Collected, developed, received, transmitted, used, or stored by or on behalf of the contractor in support of the performance of the contract.

Cyber incident means actions taken through the use of computer networks that result in a compromise or an actual or potentially adverse effect on an information system and/or the information residing therein.

Information system means a discrete set of information resources organized for the collection, processing, maintenance, use, sharing, dissemination, or disposition of information.

Media means physical devices or writing surfaces including, but is not limited to, magnetic tapes, optical disks, magnetic disks, large-scale integration memory chips, and printouts onto which covered defense information is recorded, stored, or printed within a covered contractor information system.

Technical information means technical data or computer software, as those terms are defined in the clause at DFARS 252.227-7013, Rights in Technical Data-Noncommercial Items, regardless of whether or not the clause is incorporated in this solicitation or contract. Examples of technical information include research and engineering data, engineering drawings, and associated lists, specifications, standards, process sheets, manuals, technical reports, technical orders, catalog-item identifications, data sets, studies and analyses and related information, and computer software executable code and source code.

(b) *Restrictions*. The Contractor agrees that the following conditions apply to any information it receives or creates in the performance of this contract that is information obtained from a third-party's reporting of a cyber incident pursuant to DFARS clause 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting (or derived from such information obtained under that clause):

- (1) The Contractor shall access and use the information only for the purpose of furnishing advice or technical assistance directly to the Government in support of the Government's activities related to clause 252.204-7012, and shall not be used for any other purpose.
- (2) The Contractor shall protect the information against unauthorized release or disclosure.
- (3) The Contractor shall ensure that its employees are subject to use and non-disclosure obligations consistent with this clause prior to the employees being provided access to or use of the information.
- (4) The third-party contractor that reported the cyber incident is a third-party beneficiary of the non-disclosure agreement between the Government and Contractor, as required by paragraph (b)(3) of this clause.
- (5) A breach of these obligations or restrictions may subject the Contractor to-
 - (i) Criminal, civil, administrative, and contractual actions in law and equity for penalties, damages, and other appropriate remedies by the United States; and
 - (ii) Civil actions for damages and other appropriate remedies by the third party that reported the cyber incident, as a third party beneficiary of this clause.

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(c) *Subcontracts*. The Contractor shall include this clause, including this paragraph (c), in subcontracts, or similar contractual instruments, for services that include support for the Government's activities related to safeguarding covered defense information and cyber incident reporting, including subcontracts for commercial items, without alteration, except to identify the parties.

(End of clause)

2.15 252.204-7012 SAFEGUARDING COVERED DEFENSE INFORMATION AND CYBER INCIDENT REPORTING. (OCT 2016)

2.16 252.204-7015 NOTICE OF AUTHORIZED DISCLOSURE OF INFORMATION FOR LITIGATION SUPPORT. (MAY 2016)

2.17 252.205-7000 PROVISION OF INFORMATION TO COOPERATIVE AGREEMENT HOLDERS. (DEC 1991)

2.18 252.209-7004 SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A COUNTRY THAT IS A STATE SPONSOR OF TERRORISM. (OCT 2015)

2.19 252.226-7001 UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS. (SEP 2004)

(a) *Definitions*. As used in this clause-

Indian means-

(1) Any person who is a member of any Indian tribe, band, group, pueblo, or community that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs (BIA) in accordance with 25 U.S.C. 1452(c); and

(2) Any "Native" as defined in the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.).

Indian organization means the governing body of any Indian tribe or entity established or recognized by the governing body of an Indian tribe for the purposes of 25 U.S.C. chapter 17.

Indian-owned economic enterprise means any Indian-owned (as determined by the Secretary of the Interior) commercial, industrial, or business activity established or organized for the purpose of profit, provided that Indian ownership constitutes not less than 51 percent of the enterprise.

Indian tribe means any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, that is recognized by the Federal Government as eligible for services from BIA in accordance with 25 U.S.C. 1452(c).

Interested party means a contractor or an actual or prospective offeror whose direct economic interest would be affected by the award of a subcontract or by the failure to award a subcontract.

Native Hawaiian small business concern means an entity that is-

(1) A small business concern as defined in section 3 of the Small Business Act (15 U.S.C. 632) and relevant implementing regulations; and

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(2) Owned and controlled by a Native Hawaiian as defined in 25 U.S.C. 4221(9).

(b) The Contractor shall use its best efforts to give Indian organizations, Indian-owned economic enterprises, and Native Hawaiian small business concerns the maximum practicable opportunity to participate in the subcontracts it awards, to the fullest extent consistent with efficient performance of the contract.

(c) The Contracting Officer and the Contractor, acting in good faith, may rely on the representation of an Indian organization, Indian-owned economic enterprise, or Native Hawaiian small business concern as to its eligibility, unless an interested party challenges its status or the Contracting Officer has independent reason to question that status.

(d) In the event of a challenge to the representation of a subcontractor, the Contracting Officer will refer the matter to-

(1) For matters relating to Indian organizations or Indian-owned economic enterprises: U.S. Department of the Interior, Bureau of Indian Affairs, Attn: Chief, Division of Contracting and Grants Administration, 1849 C Street NW, MS-2626-MIB, Washington, DC 20240-4000. The BIA will determine the eligibility and will notify the Contracting Officer.

(2) For matters relating to Native Hawaiian small business concerns: Department of Hawaiian Home Lands, PO Box 1879, Honolulu, HI 96805. The Department of Hawaiian Home Lands will determine the eligibility and will notify the Contracting Officer.

(e) No incentive payment will be made-

(1) While a challenge is pending; or

(2) If a subcontractor is determined to be an ineligible participant.

(f)(1) The Contractor, on its own behalf or on behalf of a subcontractor at any tier, may request an incentive payment in accordance with this clause.

(2) The incentive amount that may be requested is 5 percent of the estimated cost, target cost, or fixed price included in the subcontract at the time of award to the Indian organization, Indian-owned economic enterprise, or Native Hawaiian small business concern.

(3) In the case of a subcontract for commercial items, the Contractor may receive an incentive payment only if the subcontracted items are produced or manufactured in whole or in part by an Indian organization, Indian-owned economic enterprise, or Native Hawaiian small business concern.

(4) The Contractor has the burden of proving the amount claimed and shall assert its request for an incentive payment prior to completion of contract performance.

(5) The Contracting Officer, subject to the terms and conditions of the contract and the availability of funds, will authorize an incentive payment of 5 percent of the estimated cost, target cost, or fixed price included in the subcontract awarded to the Indian organization, Indian-owned economic enterprise, or Native Hawaiian small business concern.

(6) If the Contractor requests and receives an incentive payment on behalf of a subcontractor, the Contractor is obligated to pay the subcontractor the incentive amount.

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(g) The Contractor shall insert the substance of this clause, including this paragraph (g), in all subcontracts exceeding \$500,000.

2.20 252.227-7013 RIGHTS IN TECHNICAL DATA-NONCOMMERCIAL ITEMS. (FEB 2014)

(a) *Definitions.* As used in this clause-

(1) *Computer data base* means a collection of data recorded in a form capable of being processed by a computer. The term does not include computer software.

(2) *Computer program* means a set of instructions, rules, or routines recorded in a form that is capable of causing a computer to perform a specific operation or series of operations.

(3) *Computer software* means computer programs, source code, source code listings, object code listings, design details, algorithms, processes, flow charts, formulae and related material that would enable the software to be reproduced, recreated, or recompiled. Computer software does not include computer data bases or computer software documentation.

(4) *Computer software documentation* means owner's manuals, user's manuals, installation instructions, operating instructions, and other similar items, regardless of storage medium, that explain the capabilities of the computer software or provide instructions for using the software.

(5) *Covered Government support contractor* means a contractor (other than a litigation support contractor covered by 252.204-7014) under a contract, the primary purpose of which is to furnish independent and impartial advice or technical assistance directly to the Government in support of the Government's management and oversight of a program or effort (rather than to directly furnish an end item or service to accomplish a program or effort), provided that the contractor-

(i) Is not affiliated with the prime contractor or a first-tier subcontractor on the program or effort, or with any direct competitor of such prime contractor or any such first-tier subcontractor in furnishing end items or services of the type developed or produced on the program or effort; and

(ii) Receives access to technical data or computer software for performance of a Government contract that contains the clause at 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends.

(6) *Detailed manufacturing or process data* means technical data that describe the steps, sequences, and conditions of manufacturing, processing or assembly used by the manufacturer to produce an item or component or to perform a process.

(7) *Developed* means that an item, component, or process exists and is workable. Thus, the item or component must have been constructed or the process practiced. Workability is generally established when the item, component, or process has been analyzed or tested sufficiently to demonstrate to reasonable people skilled in the applicable art that there is a high probability that it will operate as intended. Whether, how much, and what type of analysis or testing is required to establish workability depends on the nature of the item, component, or process, and the state of the art. To be considered "developed," the item, component, or process need not be at the stage where it could be offered for sale or sold on the commercial market, nor must the item, component, or process be actually reduced to practice within the meaning of Title 35 of the United States Code.

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(8) *Developed exclusively at private expense* means development was accomplished entirely with costs charged to indirect cost pools, costs not allocated to a government contract, or any combination thereof.

(i) Private expense determinations should be made at the lowest practicable level.

(ii) Under fixed-price contracts, when total costs are greater than the firm-fixed-price or ceiling price of the contract, the additional development costs necessary to complete development shall not be considered when determining whether development was at government, private, or mixed expense.

(9) *Developed exclusively with government funds* means development was not accomplished exclusively or partially at private expense.

(10) *Developed with mixed funding* means development was accomplished partially with costs charged to indirect cost pools and/or costs not allocated to a government contract, and partially with costs charged directly to a government contract.

(11) *Form, fit, and function data* means technical data that describes the required overall physical, functional, and performance characteristics (along with the qualification requirements, if applicable) of an item, component, or process to the extent necessary to permit identification of physically and functionally interchangeable items.

(12) *Government purpose* means any activity in which the United States Government is a party, including cooperative agreements with international or multi-national defense organizations, or sales or transfers by the United States Government to foreign governments or international organizations. Government purposes include competitive procurement, but do not include the rights to use, modify, reproduce, release, perform, display, or disclose technical data for commercial purposes or authorize others to do so.

(13) *Government purpose rights* means the rights to-

(i) Use, modify, reproduce, release, perform, display, or disclose technical data within the Government without restriction; and

(ii) Release or disclose technical data outside the Government and authorize persons to whom release or disclosure has been made to use, modify, reproduce, release, perform, display, or disclose that data for United States government purposes.

(14) *Limited rights* means the rights to use, modify, reproduce, release, perform, display, or disclose technical data, in whole or in part, within the Government. The Government may not, without the written permission of the party asserting limited rights, release or disclose the technical data outside the Government, use the technical data for manufacture, or authorize the technical data to be used by another party, except that the Government may reproduce, release, or disclose such data or authorize the use or reproduction of the data by persons outside the Government if-

(i) The reproduction, release, disclosure, or use is-

(A) Necessary for emergency repair and overhaul; or

(B) A release or disclosure to-

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(1) A covered Government support contractor in performance of its covered Government support contract for use, modification, reproduction, performance, display, or release or disclosure to a person authorized to receive limited rights technical data; or

(2) A foreign government, of technical data other than detailed manufacturing or process data, when use of such data by the foreign government is in the interest of the Government and is required for evaluational or informational purposes;

(ii) The recipient of the technical data is subject to a prohibition on the further reproduction, release, disclosure, or use of the technical data; and

(iii) The contractor or subcontractor asserting the restriction is notified of such reproduction, release, disclosure, or use.

(15) *Technical data* means recorded information, regardless of the form or method of the recording, of a scientific or technical nature (including computer software documentation). The term does not include computer software or data incidental to contract administration, such as financial and/or management information.

(16) *Unlimited rights* means rights to use, modify, reproduce, perform, display, release, or disclose technical data in whole or in part, in any manner, and for any purpose whatsoever, and to have or authorize others to do so.

(b) Rights in technical data. The Contractor grants or shall obtain for the Government the following royalty free, world-wide, nonexclusive, irrevocable license rights in technical data other than computer software documentation (see the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause of this contract for rights in computer software documentation):

(1) *Unlimited rights*. The Government shall have unlimited rights in technical data that are-

(i) Data pertaining to an item, component, or process which has been or will be developed exclusively with Government funds;

(ii) Studies, analyses, test data, or similar data produced for this contract, when the study, analysis, test, or similar work was specified as an element of performance;

(iii) Created exclusively with Government funds in the performance of a contract that does not require the development, manufacture, construction, or production of items, components, or processes;

(iv) Form, fit, and function data;

(v) Necessary for installation, operation, maintenance, or training purposes (other than detailed manufacturing or process data);

(vi) Corrections or changes to technical data furnished to the Contractor by the Government;

(vii) Otherwise publicly available or have been released or disclosed by the Contractor or subcontractor without restrictions on further use, release or disclosure, other than a release or disclosure resulting from the sale, transfer, or other assignment of interest in

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the technical data to another party or the sale or transfer of some or all of a business entity or its assets to another party;

(viii) Data in which the Government has obtained unlimited rights under another Government contract or as a result of negotiations; or

(ix) Data furnished to the Government, under this or any other Government contract or subcontract thereunder, with-

(A) Government purpose license rights or limited rights and the restrictive condition(s) has/have expired; or

(B) Government purpose rights and the Contractor's exclusive right to use such data for commercial purposes has expired.

(2) *Government purpose rights.* (i) The Government shall have government purpose rights for a five-year period, or such other period as may be negotiated, in technical data-

(A) That pertain to items, components, or processes developed with mixed funding except when the Government is entitled to unlimited rights in such data as provided in paragraphs (b)(1)(ii) and (b)(1)(iv) through (b)(1)(ix) of this clause; or

(B) Created with mixed funding in the performance of a contract that does not require the development, manufacture, construction, or production of items, components, or processes.

(ii) The five-year period, or such other period as may have been negotiated, shall commence upon execution of the contract, subcontract, letter contract (or similar contractual instrument), contract modification, or option exercise that required development of the items, components, or processes or creation of the data described in paragraph (b)(2)(i)(B) of this clause. Upon expiration of the five-year or other negotiated period, the Government shall have unlimited rights in the technical data.

(iii) The Government shall not release or disclose technical data in which it has government purpose rights unless-

(A) Prior to release or disclosure, the intended recipient is subject to the non-disclosure agreement at 227.7103-7 of the Defense Federal Acquisition Regulation Supplement (DFARS); or

(B) The recipient is a Government contractor receiving access to the data for performance of a Government contract that contains the clause at DFARS 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends.

(iv) The Contractor has the exclusive right, including the right to license others, to use technical data in which the Government has obtained government purpose rights under this contract for any commercial purpose during the time period specified in the government purpose rights legend prescribed in paragraph (f)(2) of this clause.

(3) *Limited rights.* (i) Except as provided in paragraphs (b)(1)(ii) and (b)(1)(iv) through (b)(1)(ix) of this clause, the Government shall have limited rights in technical data-

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(A) Pertaining to items, components, or processes developed exclusively at private expense and marked with the limited rights legend prescribed in paragraph (f) of this clause; or

(B) Created exclusively at private expense in the performance of a contract that does not require the development, manufacture, construction, or production of items, components, or processes.

(ii) The Government shall require a recipient of limited rights data for emergency repair or overhaul to destroy the data and all copies in its possession promptly following completion of the emergency repair/overhaul and to notify the Contractor that the data have been destroyed.

(iii) The Contractor, its subcontractors, and suppliers are not required to provide the Government additional rights to use, modify, reproduce, release, perform, display, or disclose technical data furnished to the Government with limited rights. However, if the Government desires to obtain additional rights in technical data in which it has limited rights, the Contractor agrees to promptly enter into negotiations with the Contracting Officer to determine whether there are acceptable terms for transferring such rights. All technical data in which the Contractor has granted the Government additional rights shall be listed or described in a license agreement made part of the contract. The license shall enumerate the additional rights granted the Government in such data.

(iv) The Contractor acknowledges that-

(A) Limited rights data are authorized to be released or disclosed to covered Government support contractors;

(B) The Contractor will be notified of such release or disclosure;

(C) The Contractor (or the party asserting restrictions as identified in the limited rights legend) may require each such covered Government support contractor to enter into a non-disclosure agreement directly with the Contractor (or the party asserting restrictions) regarding the covered Government support contractor's use of such data, or alternatively, that the Contractor (or party asserting restrictions) may waive in writing the requirement for a non-disclosure agreement; and

(D) Any such non-disclosure agreement shall address the restrictions on the covered Government support contractor's use of the limited rights data as set forth in the clause at 252.227-7025, Limitations on the Use or Disclosure of Government-Furnished Information Marked with Restrictive Legends. The non-disclosure agreement shall not include any additional terms and conditions unless mutually agreed to by the parties to the non-disclosure agreement.

(4) *Specifically negotiated license rights.* The standard license rights granted to the Government under paragraphs (b)(1) through (b)(3) of this clause, including the period during which the Government shall have government purpose rights in technical data, may be modified by mutual agreement to provide such rights as the parties consider appropriate but shall not provide the Government lesser rights than are enumerated in paragraph (a)(14) of this clause. Any rights so negotiated shall be identified in a license agreement made part of this contract.

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(5) *Prior government rights.* Technical data that will be delivered, furnished, or otherwise provided to the Government under this contract, in which the Government has previously obtained rights shall be delivered, furnished, or provided with the pre-existing rights, unless-

(i) The parties have agreed otherwise; or

(ii) Any restrictions on the Government's rights to use, modify, reproduce, release, perform, display, or disclose the data have expired or no longer apply.

(6) *Release from liability.* The Contractor agrees to release the Government from liability for any release or disclosure of technical data made in accordance with paragraph (a)(14) or (b)(2)(iii) of this clause, in accordance with the terms of a license negotiated under paragraph (b)(4) of this clause, or by others to whom the recipient has released or disclosed the data and to seek relief solely from the party who has improperly used, modified, reproduced, released, performed, displayed, or disclosed Contractor data marked with restrictive legends.

(c) *Contractor rights in technical data.* All rights not granted to the Government are retained by the Contractor.

(d) *Third party copyrighted data.* The Contractor shall not, without the written approval of the Contracting Officer, incorporate any copyrighted data in the technical data to be delivered under this contract unless the Contractor is the copyright owner or has obtained for the Government the license rights necessary to perfect a license or licenses in the deliverable data of the appropriate scope set forth in paragraph (b) of this clause, and has affixed a statement of the license or licenses obtained on behalf of the Government and other persons to the data transmittal document.

(e) *Identification and delivery of data to be furnished with restrictions on use, release, or disclosure.* (1) This paragraph does not apply to restrictions based solely on copyright.

(2) Except as provided in paragraph (e)(3) of this clause, technical data that the Contractor asserts should be furnished to the Government with restrictions on use, release, or disclosure are identified in an attachment to this contract (the Attachment). The Contractor shall not deliver any data with restrictive markings unless the data are listed on the Attachment.

(3) In addition to the assertions made in the Attachment, other assertions may be identified after award when based on new information or inadvertent omissions unless the inadvertent omissions would have materially affected the source selection decision. Such identification and assertion shall be submitted to the Contracting Officer as soon as practicable prior to the scheduled date for delivery of the data, in the following format, and signed by an official authorized to contractually obligate the Contractor: Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data.

The Contractor asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data should be restricted-

Technical data to be furnished with restrictions*	Basis for assertion**	Asserted rights category***	Name of person asserting restrictions****
(LIST)	(LIST)	(LIST)	(LIST)

* If the assertion is applicable to items, components or processes developed at private expense, identify both the data and each such item, component, or process.

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** Generally, the development of an item, component, or process at private expense, either exclusively or partially, is the only basis for asserting restrictions on the Government's rights to use, release, or disclose technical data pertaining to such items, components, or processes. Indicate whether development was exclusively or partially at private expense. If development was not at private expense, enter the specific reason for asserting that the Government's rights should be restricted.

*** Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited or government purpose rights under this or a prior contract, or specifically negotiated licenses).

**** Corporation, individual, or other person, as appropriate.

Date _____

Printed Name and Title _____

Signature _____

(End of identification and assertion)

(4) When requested by the Contracting Officer, the Contractor shall provide sufficient information to enable the Contracting Officer to evaluate the Contractor's assertions. The Contracting Officer reserves the right to add the Contractor's assertions to the Attachment and validate any listed assertion, at a later date, in accordance with the procedures of the Validation of Restrictive Markings on Technical Data clause of this contract.

(f) *Marking requirements.* The Contractor, and its subcontractors or suppliers, may only assert restrictions on the Government's rights to use, modify, reproduce, release, perform, display, or disclose technical data to be delivered under this contract by marking the deliverable data subject to restriction. Except as provided in paragraph (f)(5) of this clause, only the following legends are authorized under this contract: the government purpose rights legend at paragraph (f)(2) of this clause; the limited rights legend at paragraph (f)(3) of this clause; or the special license rights legend at paragraph (f)(4) of this clause; and/or a notice of copyright as prescribed under 17 U.S.C. 401 or 402.

(1) *General marking instructions.* The Contractor, or its subcontractors or suppliers, shall conspicuously and legibly mark the appropriate legend on all technical data that qualify for such markings. The authorized legends shall be placed on the transmittal document or storage container and, for printed material, each page of the printed material containing technical data for which restrictions are asserted. When only portions of a page of printed material are subject to the asserted restrictions, such portions shall be identified by circling, underscoring, with a note, or other appropriate identifier. Technical data transmitted directly from one computer or computer terminal to another shall contain a notice of asserted restrictions. Reproductions of technical data or any portions thereof subject to asserted restrictions shall also reproduce the asserted restrictions.

(2) *Government purpose rights markings.* Data delivered or otherwise furnished to the Government purpose rights shall be marked as follows:

Government Purpose Rights

Contract No. _____

Contractor Name _____

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Contractor Address _____

Expiration Date _____

The Government's rights to use, modify, reproduce, release, perform, display, or disclose these technical data are restricted by paragraph (b)(2) of the Rights in Technical Data-Noncommercial Items clause contained in the above identified contract. No restrictions apply after the expiration date shown above. Any reproduction of technical data or portions thereof marked with this legend must also reproduce the markings.

(End of legend)

(3) *Limited rights markings.* Data delivered or otherwise furnished to the Government with limited rights shall be marked with the following legend:

Limited Rights _____

Contract No. _____

Contractor Name _____

Contractor Address _____

The Government's rights to use, modify, reproduce, release, perform, display, or disclose these technical data are restricted by paragraph (b)(3) of the Rights in Technical Data-Noncommercial Items clause contained in the above identified contract. Any reproduction of technical data or portions thereof marked with this legend must also reproduce the markings. Any person, other than the Government, who has been provided access to such data must promptly notify the above named Contractor.

(End of legend)

(4) *Special license rights markings.* (i) Data in which the Government's rights stem from a specifically negotiated license shall be marked with the following legend:

Special License Rights

The Government's rights to use, modify, reproduce, release, perform, display, or disclose these data are restricted by Contract No. _____ (Insert contract number) _____, License No. _____ (Insert license identifier) _____. Any reproduction of technical data or portions thereof marked with this legend must also reproduce the markings.

(End of legend)

(ii) For purposes of this clause, special licenses do not include government purpose license rights acquired under a prior contract (see paragraph (b)(5) of this clause).

(5) *Pre-existing data markings.* If the terms of a prior contract or license permitted the Contractor to restrict the Government's rights to use, modify, reproduce, release, perform, display, or disclose technical data deliverable under this contract, and those restrictions are still applicable, the Contractor may mark such data with the appropriate restrictive legend for which the data qualified under the prior contract or license. The marking procedures in paragraph (f)(1) of this clause shall be followed.

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(g) *Contractor procedures and records.* Throughout performance of this contract, the Contractor and its subcontractors or suppliers that will deliver technical data with other than unlimited rights, shall-

- (1) Have, maintain, and follow written procedures sufficient to assure that restrictive markings are used only when authorized by the terms of this clause; and
- (2) Maintain records sufficient to justify the validity of any restrictive markings on technical data delivered under this contract.

(h) *Removal of unjustified and nonconforming markings.*-(1) Unjustified technical data markings. The rights and obligations of the parties regarding the validation of restrictive markings on technical data furnished or to be furnished under this contract are contained in the Validation of Restrictive Markings on Technical Data clause of this contract. Notwithstanding any provision of this contract concerning inspection and acceptance, the Government may ignore or, at the Contractor's expense, correct or strike a marking if, in accordance with the procedures in the Validation of Restrictive Markings on Technical Data clause of this contract, a restrictive marking is determined to be unjustified.

(2) *Nonconforming technical data markings.* A nonconforming marking is a marking placed on technical data delivered or otherwise furnished to the Government under this contract that is not in the format authorized by this contract. Correction of nonconforming markings is not subject to the Validation of Restrictive Markings on Technical Data clause of this contract. If the Contracting Officer notifies the Contractor of a nonconforming marking and the Contractor fails to remove or correct such marking within sixty (60) days, the Government may ignore or, at the Contractor's expense, remove or correct any nonconforming marking.

(i) *Relation to patents.* Nothing contained in this clause shall imply a license to the Government under any patent or be construed as affecting the scope of any license or other right otherwise granted to the Government under any patent.

(j) *Limitation on charges for rights in technical data.* (1) The Contractor shall not charge to this contract any cost, including, but not limited to, license fees, royalties, or similar charges, for rights in technical data to be delivered under this contract when-

- (i) The Government has acquired, by any means, the same or greater rights in the data; or
- (ii) The data are available to the public without restrictions.

(2) The limitation in paragraph (j)(1) of this clause-

- (i) Includes costs charged by a subcontractor or supplier, at any tier, or costs incurred by the Contractor to acquire rights in subcontractor or supplier technical data, if the subcontractor or supplier has been paid for such rights under any other Government contract or under a license conveying the rights to the Government; and
- (ii) Does not include the reasonable costs of reproducing, handling, or mailing the documents or other media in which the technical data will be delivered.

(k) *Applicability to subcontractors or suppliers.* (1) The Contractor shall ensure that the rights afforded its subcontractors and suppliers under 10 U.S.C. 2320, 10 U.S.C. 2321, and the identification, assertion, and delivery processes of paragraph (e) of this clause are recognized and protected.

(2) Whenever any technical data for noncommercial items, or for commercial items developed in any part at Government expense, is to be obtained from a subcontractor or supplier for delivery to

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the Government under this contract, the Contractor shall use this same clause in the subcontract or other contractual instrument, including subcontracts or other contractual instruments for commercial items, and require its subcontractors or suppliers to do so, without alteration, except to identify the parties. This clause will govern the technical data pertaining to noncommercial items or to any portion of a commercial item that was developed in any part at Government expense, and the clause at 252.227-7015 will govern the technical data pertaining to any portion of a commercial item that was developed exclusively at private expense. No other clause shall be used to enlarge or diminish the Government's, the Contractor's, or a higher-tier subcontractor's or supplier's rights in a subcontractor's or supplier's technical data.

(3) Technical data required to be delivered by a subcontractor or supplier shall normally be delivered to the next higher-tier contractor, subcontractor, or supplier. However, when there is a requirement in the prime contract for data which may be submitted with other than unlimited rights by a subcontractor or supplier, then said subcontractor or supplier may fulfill its requirement by submitting such data directly to the Government, rather than through a higher-tier contractor, subcontractor, or supplier.

(4) The Contractor and higher-tier subcontractors or suppliers shall not use their power to award contracts as economic leverage to obtain rights in technical data from their subcontractors or suppliers.

(5) In no event shall the Contractor use its obligation to recognize and protect subcontractor or supplier rights in technical data as an excuse for failing to satisfy its contractual obligations to the Government.

(End of clause)

**2.21 252.227-7014 RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND
NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION. (FEB 2014)**

N/A

N/A

N/A

N/A

Contract No. []

Contractor Name []

Contractor Address []

Expiration Date []

Contract No. []

Contractor Name []

Contractor Address []

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2.22 252.227-7015 TECHNICAL DATA-COMMERCIAL ITEMS. (FEB 2014)

2.23 252.227-7016 RIGHTS IN BID OR PROPOSAL INFORMATION. (JAN 2011)

2.24 252.227-7017 IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS. (JAN 2011)

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2.25 252.227-7019 VALIDATION OF ASSERTED RESTRICTIONS-COMPUTER SOFTWARE. (SEP 2016)

2.26 252.227-7028 TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT. (JUN 1995)

2.27 252.227-7030 TECHNICAL DATA - WITHHOLDING OF PAYMENT. (MAR 2000)

2.28 252.227-7037 VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA. (SEP 2016)

2.29 252.232-7003 ELECTRONIC SUBMISSION OF PAYMENT REQUESTS AND RECEIVING REPORTS. (JUN 2012)

2.30 252.232-7010 LEVIES ON CONTRACT PAYMENTS. (DEC 2006)

2.31 252.237-7010 PROHIBITION ON INTERROGATION OF DETAINEES BY CONTRACTOR PERSONNEL. (JUN 2013)

2.32 252.239-7010 CLOUD COMPUTING SERVICES. (OCT 2016)

2.33 252.239-7018 SUPPLY CHAIN RISK. (OCT 2015)

2.34 252.242-7006 ACCOUNTING SYSTEM ADMINISTRATION. (FEB 2012)

2.35 252.243-7002 REQUESTS FOR EQUITABLE ADJUSTMENT. (DEC 2012)

[]
(Official's Name)

[]
(Title)

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2.36 5X252.201.602-2-91 CONTRACTING OFFICER'S REPRESENTATIVE (COR) (JAN 2004)

The following contracting officer's representative(s) (COR) are appointed to this contract: (use for Awards)

PRIMARY:

☐

☐

ALTERNATE:

☐

☐

For ordering contracts, the COR(s) will be identified on each delivery/task order.

The COR(s) has a written designation memorandum on file with the procurement office. This memorandum, as directed by DFARS 252.201-7000(b), specifies the extent of the COR's authority to act on behalf of the contracting officer. This authority cannot be re-delegated to any other person. The alternate COR acts in behalf of the primary COR in absence of the primary COR and is appointed through a separate memorandum.

The primary responsibilities of CORs are:

1) Technical Liaison. Oversees the contractor's technical effort to ensure that performance is in strict accordance with the terms and conditions of the contract. Is the primary interface between the contractor and the contracting officer on matters pertaining to the contractor's technical performance. Answers technical questions, furnishes technical instruction and guidance to the contractor relating to contract specifications, and any other instructions of a technical nature necessary to perform the work as specified in the contract. CORs are not to tell the Contractor how to perform, but only what is required of a technical nature. If doubt exists as to whether information to be furnished falls within the scope of the contract, the COR is to coordinate action with the contracting officer prior to transmitting the information to the Contractor. Promptly responds to contracting officer queries for technical information and directs the contractor to submit requests for change, deviation or waiver in writing to the contracting officer. Keeps the contracting officer informed regarding communications with the contractor in order to prevent possible misunderstandings or situations that could affect contract terms and conditions and become the basis for future claims against the Government.

2) Monitoring contractor performance. Ensures delivery schedules are adhered to and provides quality assurance. Provides status to the contracting officer and other program personnel to ensure compliance with the technical requirements of the contract. If performance is not proceeding satisfactorily, or if problems are anticipated, promptly notifies the contracting officer and may provide a recommended technical course of correction action. Reviews and approves progress reports, technical reports, financial/management reports and other items requiring approval. Notifies the contracting officer if such reports or items should be rejected, stating the basis for rejection.

3) Technical Evaluation of Contractor Proposal. Evaluates contractor proposals for modifications and provides a written technical evaluation, to include price or cost elements, to the contracting officer.

4) Reviewing and Approving Payments and Acceptance. Reviews invoices and progress payments for accuracy and appropriateness and reports any discrepancies and provides concurrence (or non-concurrence) to the Contracting Officer. Approves payments and accepts work on the appropriate forms for services performed or supplies delivered.

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5) Administration of Government Property. Submits to the contracting officer and property specialist a written evaluation of the disposition of any material/property furnished by the Government that is accountable to the contract.

6) Security. Coordinates all security requirements of the contract with the contractor and the agency security office, to include DD254s and contractor access to NGA networks. Ensures AIS accounts of departing NGA contractor on-site personnel are cancelled expeditiously. Keeps track of any classified documents or data provided and ensures return or destruction upon completion of the contract.

7) Maintenance of Files. Keeps a file of all records related to the contract to include, but not limited to, the contract, e-mail correspondence, formal written correspondence, reports, receiving and acceptance reports/forms, technical evaluations, trip reports, meeting notes, status reports, past performance reports, government property reports and closeout records.

8) Administration of On-Site contractor personnel information. Maintains information on contractors, prime and subs, performing on-site at NGA facilities. Coordinates with the contractors and the Human Resource Office (HR) all contractor data changes, to include arrival and departure, names, physical location(s), NGA organization code of office responsible for contractor-occupied-space, and employer name, address and phone. Approves badging of contractors upon contractor completion and submittal of Contractor Data Input Record Form to HR and a standardized NGA non-disclosure statement.

CORs shall not direct the contractor in any manner that would be of the type of supervision or control that converts an individual who is an independent Contractor (such as a contractor employee) into a Government employee.

Notwithstanding the delegated duties listed herein, the COR does not possess the authority of a contracting officer and, therefore, shall not alter the terms and conditions of the contract in any way, to include any commitments or changes that will affect cost, price, quality, quantity, delivery, or any other term or condition of the contract. The contracting officer is the only official with the authority to enter into or modify contractual agreements or commitments. Unauthorized acts could result in personal liability.

The duties and responsibilities set forth herein are not intended to be all-inclusive. The contracting officer may delegate additional functions as deemed necessary.

COR appointment and termination on a specific contract shall be effective upon contract/order award or execution of a modification to the contract by the contracting officer.

(End of Clause)

2.37 5X252.204-7000-90 PUBLIC RELEASE OF INFORMATION (MAY 2015)

(a) Except as provided in paragraph (b) of this clause, information pertaining to this contract shall not be released to the public unless authorized by the Contracting Officer in accordance with DFARS 252.204-7000, Disclosure of Information. Requests for approval to release information pertaining to this contract shall be submitted to the Contracting Officer by means of NGA Form 5230-1, National Geospatial-Intelligence Agency Request for Clearance for Public Release.

(b) The contractor may provide past performance information regarding this contract, without Contracting Officer approval, to the Office of the Director of National Intelligence (ODNI), the Central Intelligence Agency (CIA), the National Reconnaissance Office (NRO), the National Security Agency (NSA), the Defense Intelligence Agency (DIA), and NGA to support source selections at those agencies. The contractor is responsible for the proper classification and handling of such information and shall provide a copy of the information provided to the Contracting Officer.

(End of clause)

2.38 5X52.09.507-9000 ORGANIZATIONAL CONFLICT OF INTEREST (JUN 2004)

(a) The term "organizational conflict of interest" means that because of other activities or relationships with other persons, a person is unable to or potentially unable to render impartial assistance or advice to the Government, or the person's objectivity in performing the contract work is or might be otherwise impaired, or a person has an unfair competitive advantage. The term "person" includes a business organization.

(b) The principals of organizational conflict of interest and descriptions thereof are set forth at FAR Subpart 9.5.

(c) If the offeror/contractor is aware of a potential organizational conflict of interest (OCI), as defined at paragraph (a) above, with respect to this procurement, the offeror shall make immediate and full disclosure in writing to the Contracting Officer.

(d) If in the performance of this contract the contractor discovers a potential organizational conflict of interest with respect to the contract, it shall make an immediate and full disclosure in writing to the Contracting Officer, which shall include a description of the actions the Contractor has taken or proposes to take to avoid, eliminate, or neutralize the conflict. In the event that the Contractor does not disclose a known potential conflict to the Contracting Officer, the Government may terminate the contract for default.

(e) If the Contractor is directed by authorized Government personnel by written tasks or verbal directions (in program review or otherwise), to perform service which the Contractor believes to constitute a potential organizational conflict of interest, the contractor is required to notify the Contracting Officer in writing of the nature of the conflict within ten (10) days after receipt of the Government directive. The Contracting Officer has the sole responsibility for determining whether a conflict does, in fact, exist. No effort shall be expended toward the performance of the services in question until this determination has been made or unless otherwise directed by the Contracting Officer.

(f) The Government has the unilateral right to waive one or more of the provisions of FAR Subpart 9.5 and this template, on a case-by-case basis, if it is determined by the Contracting Officer that a waiver is in the best interest of the Government. The Contractor must demonstrate to the Contracting Officer in writing that the Contractor can neutralize, mitigate or eliminate potential conflicts of interest.

(g) Any restraints negotiated in response to FAR Part 9.507-2 as a condition of award due to an organizational conflict of interest, shall be incorporated into the instant contract or Delivery/Task Order(s) as appropriate. These restraints will have duration of not more than [] years after completion of the contract effort.

(h) The Contractor shall insert Paragraphs (a) through (g) of this clause in all subcontracts.

(End of Clause)

2.39 5X52.219-9001 INTELLIGENCE COMMUNITY ELECTRONIC SUBCONTRACTING REPORTING SYSTEM (IC ESRS) (MAR 2018)

(a) All prime Contractors that hold one or more contracts over \$700,000 shall submit their Individual Subcontracting Report (ISR) to NGA via the IC eSRS in lieu of the SF 294 (Subcontracting Report for Individual Contracts). Prime Contractors are responsible for entering accurate, timely and complete reports in the IC eSRS in accordance with the reporting requirements of FAR 52.219-9 Alternate III, Small Business Subcontracting Plan, in accordance with DoD Class Deviation 2017-E0001.

(b) The NGA Small Business Program Office has developed the IC eSRS which allows Contractors to submit ISRs via the Intelligence Acquisition Center (IC ARC). However, this does not apply to subcontractors, as not all

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subcontractors can or will have access to the IC eSRS. Subcontractors are required to submit their SF 294s to the upper-tier Contractor that awarded their subcontract.

(c) In accordance with FAR 52.219-9, prime Contractors shall submit their SF 294s semi-annually, during contract performance for the periods ending March 31 and September 30. A report is also required for each contract within 30 days of contract completion. Reports are due 30 days after the close of each reporting period, unless otherwise directed by the Contracting Officer. Reports are required when due, regardless of whether there has been any subcontracting activity since the inception of the contract, or the previous reporting period.

(d) The IC eSRS can be found at: <https://ICeSRS.nro.ic.gov> and can only be accessed via the NGANet or similar network for Contractors with active accounts.

(e) Contractors with no active accounts shall go to the unclassified IC eSRS website at <https://ICeSRS.westfields.net> and click on the "register" button. It is important to note that all users must have the proper credentials in order to gain access to the classified IC eSRS.

(f) With regards to the Summary Subcontract Report (SSR), DoD Prime Contractors and Subcontractors are required to submit one SSR via eSRS found at www.esrs.gov by selecting "Department of Defense (DoD) (9700)" from the top of the second dropdown menu in the Government agency in Block seven (7).

(End of Clause)

2.40 5X52.219-9002 SMALL BUSINESS GOAL (NOV 2013)

(a) The magnitude of this contract may require businesses to team, partner, and/or subcontract with other business concerns large and small. The Government has set a small business subcontracting goal of 5 % of total contract dollars. All large business contractors will be expected to meet and maintain their approved subcontracting goals through the life of the contract in accordance with applicable statutory and regulatory requirements.

(b) Data regarding each large business contractor's small business subcontractor performance shall be provided as follows:

(1) After contract award, large business contractors shall submit data (See paragraph (2)) that identifies the small business subcontractors and work that has been awarded to them in accordance with FAR Part 52.219-9(d)(10)(ii).

(2) The NGA Program Small Business Performance slide (see template in NARI Part 5X53 - Forms) in Section J shall be submitted during the Program Management Review and based on the approved small business subcontracting plan that is a material requirement of this contract.

(End of Clause)

2.41 5X52.227-9000 UNAUTHORIZED USE OF NGA NAME, SEAL AND INITIALS (JUN 2006)

(a) As provide in 10 U.S.C. Section 425, no person may, except with the written permission of both the Secretary of Defense and the Director of National Intelligence, knowingly use the words "National Geospatial-Intelligence Agency", "National Imagery and Mapping Agency", or "Defense Mapping Agency," the initials "NGA", "NIMA", or "DMA," the seal of National Geospatial-Intelligence Agency, National Imagery and Mapping Agency, or the Defense Mapping Agency, or any colorable imitation of such words, initials, or seal in connection with any merchandise, retail product, impersonation, solicitation, or commercial activity in a manner reasonably calculated to convey the impression that such use is approved, endorsed, or authorized by the Secretary of Defense and the Director of Central Intelligence.

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(b) Whenever it appears to the U.S. Attorney General that any person is engaged or about to engage in an act or practice which constitutes or will constitute conduct prohibited by paragraph (a), the Attorney General may initiate a civil proceeding in a district court of the United States to enjoin such act or practice. Such court shall proceed as soon as practicable to hearing and determination of such action and may, at any time before final determination, enter restraining orders or prohibitions, or take such other action as is warranted, to prevent injury to the United States, or to any person or class of persons for whose protection the action is brought.

(End of Clause)

2.42 5X52.227-9001 ACTIVITIES THAT AFFECT U.S. PERSONS (NOV 2016)

This contract is sponsored by the National Geospatial-Intelligence Agency. All work and services to be performed hereunder shall be in strict compliance with procedures set forth in DoDM 5240.01.

(End of Clause)

2.43 5X52.232-9000 SUBMISSION OF INVOICE-FEDERAL PAYMENT CENTER (FPC) (OCT 2017) - FOR USE IN CONTRACTS PAID BY THE FPC VENDOR PAY OFFICE

(a) The contractor shall prepare each invoice in accordance with the Prompt Payment Act and email one copy of the invoice to the DOD/FPC Scott AFB, IL at FMFOINSP@nga.mil. The DOD/FPC at Scott AFB, IL requires an email copy, but will accept a hard copy that is mailed to Federal Payment Center, P.O. Box 25767, Scott AFB, IL 62225.

(b) At the same time of submission of the invoice to the FPC vendor pay office, the contractor shall fax or email one copy to ERIKA HESSLER, ERIKA.S.HESSLER@NGA.MIL, (571)557-3211, and one copy to TBD. The contractor shall ensure that the invoice submitted to the payment office is the same invoice that is submitted to the CO, the COR, and the designated DCAA office when clause 5X252.242-9000 is used, without alteration.

(c) Upon receipt of the invoice, the COR will complete the receiving report and submit via the RRPT database tool. A copy of the completed receiving report shall also be provided to the Contracting Officer shown on the face of this contract/order.

(d) Contractors wishing to check the payment status of their vouchers may do so by calling FPC Vendor Support at 636-321-5251. In addition, questions may be directed to the Contracting Officer's Representative (COR). In the absence of a COR, contact the Procurement Contracting Officer (PCO), whose name and contact information appear on the face page of this contract/order.

(End of Clause)

2.44 5X252.242-9000 APPROVING PAYMENTS (COST REIMBURSEMENT, TIME AND MATERIALS, LEVEL OF EFFORT AND LABOR HOUR CONTRACTS) (JUN 2017)

(a) Interim Voucher Receipt and Approval in accordance with DFARS 242.803(b)(i)(A) and (B), the contractor shall prepare an original and three (3) copies of each voucher in accordance with the applicable Prompt Payment Clause (see 5X52.232-9000). The original and one copy of the voucher shall be submitted to the Defense Contract Audit Agency (DCAA) TBD. The remaining copies of the vouchers shall be submitted to the Contracting Officer shown on page 1 of the contract/modification and the Contracting Officer Representative shown in Section G.

(b) DCAA will review and approve all first vouchers and subsequent interim vouchers for provisional payment and will forward them to the paying office. Payment will be made upon the basis of the DCAA approved voucher. In the event discrepancies are discovered, the DCAA will resolve the discrepancies with the contractor, secure a corrected voucher, and approve it. In the event discrepancies are discovered by the contracting officer/contracting officer representative before payment of the voucher, the contracting officer/contracting officer representative will notify

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the DCAA auditor, who will coordinate resolution of the discrepancies and secure a corrected voucher as deemed necessary. Copies of the corrected voucher will be submitted to the contracting officer/contracting officer representative. If an offset is required due to a discrepancy on a paid voucher, then the contractor will show the offset on a subsequent voucher.

(c) In accordance with DFARS 242.803(b)(i) (B), DCAA will approve all interim vouchers that were selected using sampling methodologies for provisional payment and send them to the designated paying office after a pre-payment review. Interim vouchers not selected for pre-payment review will be considered to be provisionally approved and will be sent directly to the paying office. All provisionally approved interim vouchers are subject to a later audit of actual costs incurred.

(d) Completion/Final Voucher: The contractor shall submit final vouchers and closing documents to DCAA and the Contracting Officer. After DCAA review, the contracting officer approves all completion/final vouchers(s) and sends to the paying office.

(End of Clause)

SECTION 3 - Documents, Exhibits, and Other Attachments

3.1 Documents, Exhibits, and Other Attachments

Attachment Number	Title	Document Version	Date	Number of Pages
1	1 - RFP MTI	BASE	07/17/2018	10
2	2 - Attachment 1 - MTI SOO	BASE	07/17/2018	4
3	3 - Attachment 2 - QASP	BASE	07/17/2018	2
4	4 - Attachment 3 - Pricing Template	BASE	07/17/2018	4
5	5 - Attachment 4a - Available AWS Environment Services & Tools	BASE	07/17/2018	5
6	6 - Attachment 4b - MTI Backlog	BASE	07/17/2018	2
7	Attachment 5 - Clauses & Provisions (HM047618Q0034)	BASE	07/17/2018	1

SECTION 4 - Instructions, Conditions, and Notices to Bidders

4.1 Instructions, Conditions, and Notices to Bidders

Page Size and Format: Page size shall be 8.5 by 11 inches, except for foldouts, which shall not exceed 11 by 17 inches. Margins shall be set at one inch on top and bottom and both sides. Minimum type size shall be ● point Arial standard font with single spacing (not to exceed 56 lines per page).

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4.1 252.203-7005 REPRESENTATION RELATING TO COMPENSATION OF FORMER DOD OFFICIALS. (NOV 2011)

4.2 252.204-7008 COMPLIANCE WITH SAFEGUARDING COVERED DEFENSE INFORMATION CONTROLS. (OCT 2016)

(a) *Definitions.* As used in this provision-

Controlled technical information, covered contractor information system, covered defense information, cyber incident, information system, and technical information are defined in clause 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting.

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(b) The security requirements required by contract clause 252.204-7012, shall be implemented for all covered defense information on all covered contractor information systems that support the performance of this contract.

(c) For covered contractor information systems that are not part of an information technology service or system operated on behalf of the Government (see 252.204-7012(b)(2))-

(1) By submission of this offer, the Offeror represents that it will implement the security requirements specified by National Institute of Standards and Technology (NIST) Special Publication (SP) 800-171, "Protecting Controlled Unclassified Information in Nonfederal Information Systems and Organizations" (see <http://dx.doi.org/10.6028/NIST.SP.800-171>) that are in effect at the time the solicitation is issued or as authorized by the contracting officer, not later than December 31, 2017.

(2)(i) If the Offeror proposes to vary from any of the security requirements specified by NIST SP 800-171 that are in effect at the time the solicitation is issued or as authorized by the Contracting Officer, the Offeror shall submit to the Contracting Officer, for consideration by the DoD Chief Information Officer (CIO), a written explanation of-

(A) Why a particular security requirement is not applicable; or

(B) How an alternative but equally effective, security measure is used to compensate for the inability to satisfy a particular requirement and achieve equivalent protection.

(ii) An authorized representative of the DoD CIO will adjudicate offeror requests to vary from NIST SP 800-171 requirements in writing prior to contract award. Any accepted variance from NIST SP 800-171 shall be incorporated into the resulting contract.

(End of provision)

4.3 252.222-7007 REPRESENTATION REGARDING COMBATING TRAFFICKING IN PERSONS. (JAN 2015)

4.4 252.239-7009 REPRESENTATION OF USE OF CLOUD COMPUTING. (SEP 2015)

4.5 252.239-7017 NOTICE OF SUPPLY CHAIN RISK. (NOV 2013)

SECTION 5 - Evaluation Factors for Award

5.1 Evaluation Factors for Award