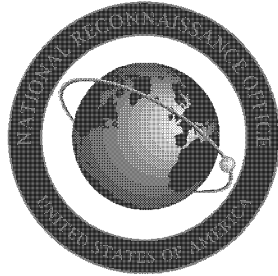


~~SECRET//NOFORN~~



**(U) Statement of Work**

**for the**

**EnhancedView Follow On**

**(U) National Reconnaissance Office  
GEOSPATIAL INTELLIGENCE SYSTEMS ACQUISITION  
DIRECTORATE**

~~13 September 2018~~ 25 November 2020



(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

CHANGE LOG				
Revision	Date	Revision By	Paragraph/Pages Affected	Remarks
1.0	13 Sept 18		Section 4.4 – Pages 37 - 39	ECP 1 - Addition of SecOps Modernization Task
2.0	20 Sept 18		4.4.1.2, pages 37, 38, Appendix C	Incorporation of NGA input
2.1	1 Oct 18		4.4.1.2.1 - 4.4.1.2.5	Added paragraph headings
3.0	5 Dec 2019		4.1.6	Added paragraph
4.0	29 June 20		SOW 4.5	Added Task
5.0	25 Nov 2020		SOW-4.4.4; SOW-4.6	Added tasks

(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

**TABLE OF CONTENTS**

**SOW-1. (U) INTRODUCTION** .....55

**SOW-2. (U) SCOPE**.....55

**SOW-3. (U) COMPLIANCE AND REFERENCE DOCUMENTS**.....55

    SOW-3.1. (U) COMPLIANCE DOCUMENTS .....55

    SOW-3.2. (U) REFERENCE DOCUMENTS .....88

**SOW-4. (U) PROGRAM REQUIREMENTS** .....88

    SOW-4.1. (U) BUSINESS MANAGEMENT .....88

        SOW-4.1.1 (U) Program Performance Management .....88

        SOW-4.1.2 (U) NGA Program Security.....99

        SOW-4.1.3 (U) NRO Program Security.....1242

        SOW-4.1.4 (U) License to Operate U.S. Commercial Remote Sensing Imaging Satellites.....1444

        SOW-4.1.5 (U) Copyright and Commercial Sales .....1545

        SOW-4.1.6 (U) Cloud Provider Relationship and Financial Arrangement.....1545

    SOW-4.2. (U) IMAGERY PROCUREMENT (CONTRACT LINE ITEM NUMBER (CLIN) 0001) .....1646

        SOW-4.2.1 (U) Imagery Type .....1646

        SOW-4.2.2 (U) Imagery Quality.....1747

        SOW-4.2.3 (U) Access Characteristics.....1949

        SOW-4.2.4 (U) Collection and Production.....2020

        SOW-4.2.5 (U) Tasking, Processing, and Dissemination .....2626

        SOW-4.2.6 (U) Imagery Support Data .....3434

        SOW-4.2.7 (U) Secure Operations .....3636

        SOW-4.2.8 (U) Reserved.....3636

        SOW-4.2.9 (U) Reserved.....3737

        SOW-4.2.10 (U) Reserved.....3737

    SOW-4.3. (U) SYSTEMS ENGINEERING, ANALYSIS, AND STUDIES (CLIN 0002) .....3737

    SOW-4.4. (U) SECURE OPERATIONS (SECOPS) MODERNIZATION (CLIN 0003) .....3838

        SOW-4.4.1 [REDACTED] .....3838

        SOW-4.4.2 [REDACTED] .....4144

        SOW-4.4.3 [REDACTED] .....4144

    SOW-4.5. (U) TACTICAL ISR STUDY (CLIN 0004).....4144

    SOW-4.6. (U) THEATER DIRECT DOWNLINK (CLIN 0005) .....4343

**APPENDIX A DELIVERABLES** .....4444

**APPENDIX B ACRONYMS**.....4545

**APPENDIX C GLOSSARY OF TERMS**.....4747

(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

**TABLE OF TABLES**

Table 1 – (U) List of Compliance Documents.....	77
Table 2 – (U) List of Reference Documents.....	88
Table 3 – (U) Multispectral Imagery.....	1717
Table 4 – (U) MSI Band-to-Band Registration.....	1818
Table 5 – (U) Collection and Production.....	2323
Table 6 – (U) PAN Mono Area Equivalent.....	2525
Table 7 – (U) Government Order Priority Levels.....	2727
Table 8 – (U) Tasking Uplink to Product Delivery Latency.....	2828
Table 9 – (U) Tasking to Uplink.....	2929
Table 10 – (U) Data Deliverables and Reports.....	4444

**TABLE OF FIGURES**

Figure 1 – (U) Along & Cross Scan Minimum Overlap.....	2827
--	------

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

**SOW-1. (U) INTRODUCTION**

~~(S//REL TO USA, FVEY)~~ As the Geospatial Intelligence (GEOINT) Functional Manager, the National Geospatial-Intelligence Agency (NGA) serves as the lead agency for commercial imagery (CI) as it pertains to national security and foreign policy purposes. NGA has been mandated by [redacted]

(b)(1)  
(b)(3)

[redacted] Under the terms of "Memorandum of Understanding Between the National Reconnaissance Office and the National Geospatial-Intelligence Agency on Partnership and Collaboration in Support of Their Missions, NRO-ID 2016-05309," dated 8 September 2017, the NRO serves as the IC and DoD primary acquirer of commercial GEOINT imagery.

~~(S//REL TO USA, FVEY)~~ [redacted]

(b)(1)  
(b)(3)

**SOW-2. (U) SCOPE**

~~(S//REL TO USA, FVEY)~~ This contract is for the purchase of commercial imagery. The SOW specifies the technical and delivery requirements [redacted]

(b)(1)  
(b)(3)

(U) The contract will be managed by one NRO Contracting Officer (CO) and one NRO Contracting Officer's Technical Representative (COTR). However, NGA will maintain an operational relationship with the Contractor, in these general areas: tasking and dissemination, user-facing dissemination activities, commercial imagery license compliance, and information technology compliance. The Contractor shall only take direction from individuals authorized by the CO and/or COTR. Throughout this SOW, references to the Government shall mean NRO for contractual items, NGA for operational items, and in all instances shall refer to the CO, COTR, or their designated representatives.

**SOW-3. (U) COMPLIANCE AND REFERENCE DOCUMENTS**

**SOW-3.1. (U) Compliance Documents**

(U) Table 1 lists the referenced compliance documents in the SOW including the SOW section, document classification, and date. The Contractor shall comply with the requirements in the most current version of the compliance documents. In the event that current or future document revisions or new document additions impact the Contractor's ability to meet requirements, this will be addressed and a mutually agreeable solution will be reached between the Contractor and the Government, via Engineering Change Proposal under CLIN002 if there are cost impacts to the Contractor from document additions or revisions.

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

TABLE IS UNCLASSIFIED

SOW Reference	Document Classification	Compliance Document	Dated
SOW-4.1.5	(U)	NextView Imagery End User License Agreement	30 March 2018
SOW-4.2.5.1.1	<del>(S//NF)</del>	[redacted] 22-September-2011, through Change Notice CN-008	30 September 2016
SOW-4.2.5.7.1	(U// <del>FOUO</del> )	NGA Service Agreement Between DigitalGlobe (DG CDP) and GEOINT Information Management Services (GIMS) 19 January 2012, through Change Notice CN-004	28 April 2016
SOW-4.2.5.6.1	(U)	STDI-0006 (NGA NITF 2.1 Commercial Dataset Requirements Document (NCDRD)) 21 October 2004, through Change Notice CN-014	30 September 2016
SOW-4.2.5.6.1	(U)	NGA Standardization Document Implementation Profile for Tagged Image File Format (TIFF) and Geographic Tagged Image File Format (GeoTIFF) Version 1.0	18 November 2008
SOW-1	<del>(S//NF)</del>	[redacted]	25 April 2003
SOW-4.3.1.3.3	(U)	NGA Commercial Imagery Architecture Review Board Joint Interface Control Process Guidebook (JIC-PG)	3 October 2006
<b>Baseline Interfaces</b>			
SOW-4.2.5.7.1	(U// <del>FOUO</del> )	[redacted] August 2013, through Change Notice CN-006	11 December 2015
SOW-4.2.5.7.1	(U// <del>FOUO</del> )	[redacted] 22 August 2013, through Change Notice CN-006	11 December 2015
SOW-4.2.5.1.1	(U)	NCDDD Addendum 1, 19 January 2012	10 September 2015
SOW-4.2.5.1.1	(U)	NCDDD Revision B 17 April 2014, through Change Notice CN-006	30 September 2016
<b>Community Sensor Model</b>			
SOW-4.2.6.4	(U)	Adjustable Parameters for EO Satellite Imagery Final	21 January 2009
SOW-4.2.6.4	(U)	Community Sensor Model (CSM) Technical Requirements Document (TRD) Version 3.0	15 November 2010
SOW-4.2.6.4	(U)	CSM TRD Appendix C Application Program Interface (API) Version 3.0	15 November 2010
SOW-4.2.6.4	(U)	CSM TRD Appendix D Example Test Plan and Procedure Version: 3.0	15 November 2010
SOW-4.2.6.4	(U)	CSM TRD Appendix E Example Statement of Objectives 15 November 2010 Version: 3.0	15 November 2010
SOW-4.2.6.4	(U)	Pushbroom_Whiskbroom_V1 0_ncs rev 080714	25 September 2008
SOW-4.2.6.4	(U)	CSM Plugin Summary	05 August 2010
<b>Security</b>			
SOW-4.1.2.1.2	(U)	ICD 503, Intelligence Community Information Technology Systems Security, Risk Management, Certification, and Accreditation, Revision 3	15 September 2008
SOW-4.1.2.1.2	(U)	ICD 503 Technical Amendment, Intelligence Community Information Technology Systems Security Risk Management, Revision 3	21 July 2015
SOW-4.1.2.1.2	(U)	NI 8010.3r7, NI for Certification and Accreditation of Information Systems	22 August 2007

(b)(1)  
(b)(3)

(b)(3)

(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

SOW Reference	Document Classification	Compliance Document	Dated
SOW-4.1.2.1.3	(U)	NI 8010.11R5, NI for NGA-Controlled Computer Network Connectivity at Contractor and Other Facilities (excluding Paragraph 7.G(1) "Firewalls")	25 October 2007
SOW-4.1.2.1.3	(U)	NI 8400.1R7 NI for Acquiring Information Technology Products	29 January 2007
SOW-4.1.2.1.3	(U)	DOD NGA Supported Computer Hardware List Version 2.1.0	May 2009
SOW-4.1.2.1.3	(U)	Software Approved Product List: <a href="http://swap.nga.ic.gov/ng/#/app/swap/product/current">http://swap.nga.ic.gov/ng/#/app/swap/product/current</a>	
SOW-4.1.2.1.3	<del>(U//FOUO)</del>	Software Approval Process (SWAP) Request Form	01-August-2015
SOW-4.1.2.1.3	<del>(S)</del>		
SOW-4.1.2.1.3	(U)	NI 8420.3R6 Controlled Interfaces for Systems and Networks	28 October 2008
SOW-4.1.2.1.3	(U)	NI 8420.2R8, NGA Instruction for Antivirus Response	30 October 2009
SOW-4.1.2.1.3	(U)	NI 8410.1R4 Implementation of Mobile Code	2 February 2007
SOW-4.1.2.1.3	(U)	NI 8010.9R7 Information Operations Conditions (INFOCON) Including Information Assurance Vulnerability Management (IAVM)	20 March 2007
SOW-4.1.2.1.5	(U)	DODI 8580.1 Information Assurance (IA) in a Defense Acquisition	9 July 2004
SOW-4.1.4.5	(U)	A Guide to Understanding Data Remanence in Automated Information Systems	September 1991
SOW-4.1.2.1.6	(U)	National Industrial Security Program Operating Manual (NISPOM) 5220.22-M	28 February 2006
SOW-4.1.2.1.6	(U)	ICD Number 705 Sensitive Compartmented Information Facilities, Revision 3	26 May 2010
SOW-4.1.4.6	(U)	DOD 5200.1-R Information Security Program	14 January 1997
SOW-4.1.2.1.7	(U)	NI 8010.11, NGA-Controlled Computer Network Connectivity at Contractor and Other Facilities	October 25, 2007
SOW-4.1.2.1.7	(U)	Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6211.02C DISN: Policy and Responsibilities	9 July 2008
SOW-4.1.2.1.7	(U)	NI 8460.1R7 Information Security	4 December 2007
SOW-4.1.2.1.8, SOW-4.2.7.5	<del>(TS//TK//NF)</del>	National System for GEOINT (NSG) Geospatial Intelligence Classification Guide Revision 9	16 September 2010
SOW-4.1.2.1.8, SOW-4.2.7.5	<del>(S//NF)</del>	NGA Security Classification Guide	12 November 2015
SOW-4.1.2.1.8, SOW-4.2.7.5	<del>(TS//TK//NF)</del>		<del>(TS//TK//NOFORN)</del> 18 December 2009
SOW-4.1.2.1.8, SOW-4.2.7.5	<del>(S//NF)</del>		<del>(S//NOFORN)</del> 26 January 2010
SOW-4.1.2.1.8	<del>(S//REL TO USA, FVEY)</del>		May 2009
SOW-4.1.2.1.8	(U//FOUO)		April 2014
SOW-4.2.7.5	(U)		03 December 2002
SOW-4.2.7.5	(U)		21 July 2009
SOW-4.2.7.5	(U)		26 November 2001

(b)(3)

(b)(1)

(b)(3)

(b)(1)

(b)(3)

Table 1 – (U) List of Compliance Documents

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

**SOW-3.2. (U) Reference Documents**

(U) Table 2 lists various reference documents.

TABLE IS UNCLASSIFIED

Document Classification	Reference Document	Dated
(U)	NGA Commercial Imagery Architecture Review Board (CI ARB) Directive Version 2.0	20 December 2007
<b>Security</b>		
(U)	Controlling IT Procurements NCD 8000-006	19 October 2007
(U)	NI 5220.1R2 Industrial Security	24 November 2003
(U)	NI 5200.1R6 NI for Information Security Including Research and Technology Protection	15 December 2004
(U)	OCIO Guide to Certification & Accreditation	July 2009
(U)	NI 5200.4R1 NI for Operations Security (OPSEC)	10 November 2008
(U// <del>FOUO</del> )	Unified Cross Domain Management Office (UCDMO) Cross Domain Inventory ver 3.2.0	December 2009
(U// <del>FOUO</del> )	NGA's Systems Engineering Plan (SEP) for the National System For Geospatial Intelligence (NSG) Acquisition Program Draft Version 1.0	12 December 2008
(U// <del>PROPIN</del> )		01 December 2016
(U// <del>PROPIN</del> )		01 December 2016

Table 2 – (U) List of Reference Documents

(b)(3)

**SOW-4. (U) PROGRAM REQUIREMENTS**

**SOW-4.1. (U) Business Management**

(U) The Contractor shall provide the needed wideband telemetry, imagery, and imagery support data by the required dates and sustain the provision of the same through the period of performance. Components of Management include Program Performance Management, Schedule, Status Information, Information Assurance, Ground Segment Operation, License to Operate U.S. Commercial Remote Sensing Imaging Satellites, Copyright and Commercial Sales, and Systems Engineering Services.

**SOW-4.1.1 (U) Program Performance Management**

SOW-4.1.1.1. (U) The Contractor shall conduct a monthly Program Management Review (PMR) which includes status of technical and management activities, external dependencies, coordination activities, security, price performance, schedule performance, action item status, and discussions on issues and risks with recommendations for corrective action as needed. Each PMR shall provide visibility into contract activities and technical status to the CO, COTR, and supporting staff, consistent with the reporting status period. (Contract Data Requirements List (CDRL) A001, PMR Slides). The location of the PMR will alternate monthly between the Contractor facility and Government facility. When possible, to maximize effectiveness and minimize travel costs, these meetings will be combined with NGA or other local meetings as mutually agreed.

~~SECRET//NOFORN~~



~~SECRET//NOFORN~~

SOW-4.1.1.2. (U) The Contractor shall provide accommodations for an on-site Government representative at the Contractor's facility, with the ability to accommodate up to three on-site Government representatives during surge situations. The Contractor shall provide office space, facility access, and access to available secure telecommunications.

SOW-4.1.1.3. (U) The Contractor shall provide online access by the Government to Contractor-maintained meeting minutes (CDRL A002, Meeting Minutes) via secure web-based tools and/or electronic dissemination methods such as Secure File Transfer Protocol (SFTP).

SOW-4.1.1.4. The Contractor shall provide a Daily Operation Capability Report (CDRL A003, Daily Operation Capability Report).

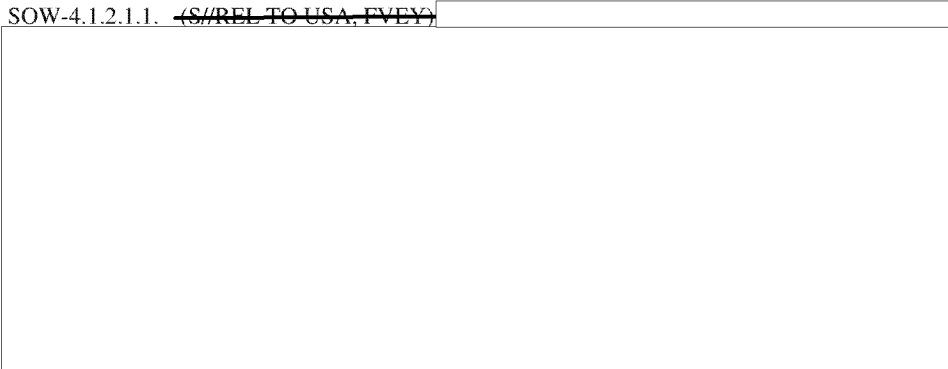
SOW-4.1.1.5. The Contractor shall provide a weekly Promote Synopsis (CDRL A004, Promote Synopsis).

**SOW-4.1.2 (U) NGA Program Security**

(U) The applicable Program Security requirements dictate which government agency is providing authorization. Paragraph 4.1.2 applies when NGA is providing authorization. If there is a conflict between NGA and NRO security policies, the NRO policy takes precedence.

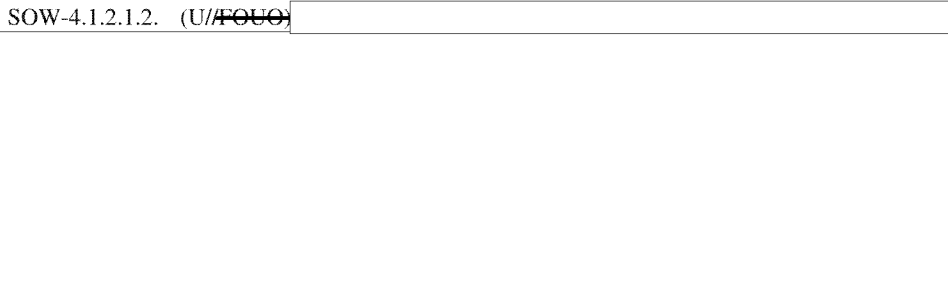
SOW-4.1.2.1. (U) NGA Information Assurance. The Contractor shall comply with the following paragraphs when NGA maintains the authorization for a system provided for under this contract.

SOW-4.1.2.1.1. ~~(S//REL TO USA, FVEY)~~



(b)(1)  
(b)(3)

SOW-4.1.2.1.2. (U//FOUO)



(b)(3)

~~SECRET//NOFORN~~

**Page Denied**

~~SECRET//NOFORN~~



(b)(3)

SOW-4.1.2.1.9. (U) Government Furnished Equipment. The Contractor shall ensure proper handling, storage, and use of GFE and Government Furnished Information (GFI).

SOW-4.1.2.1.10. (U) Personnel Clearances. The Contractor shall provide a sufficient number of personnel cleared at the appropriate security level and appropriately accredited facilities to ensure compliance with these requirements.

SOW-4.1.2.1.11. (U/FOUO)



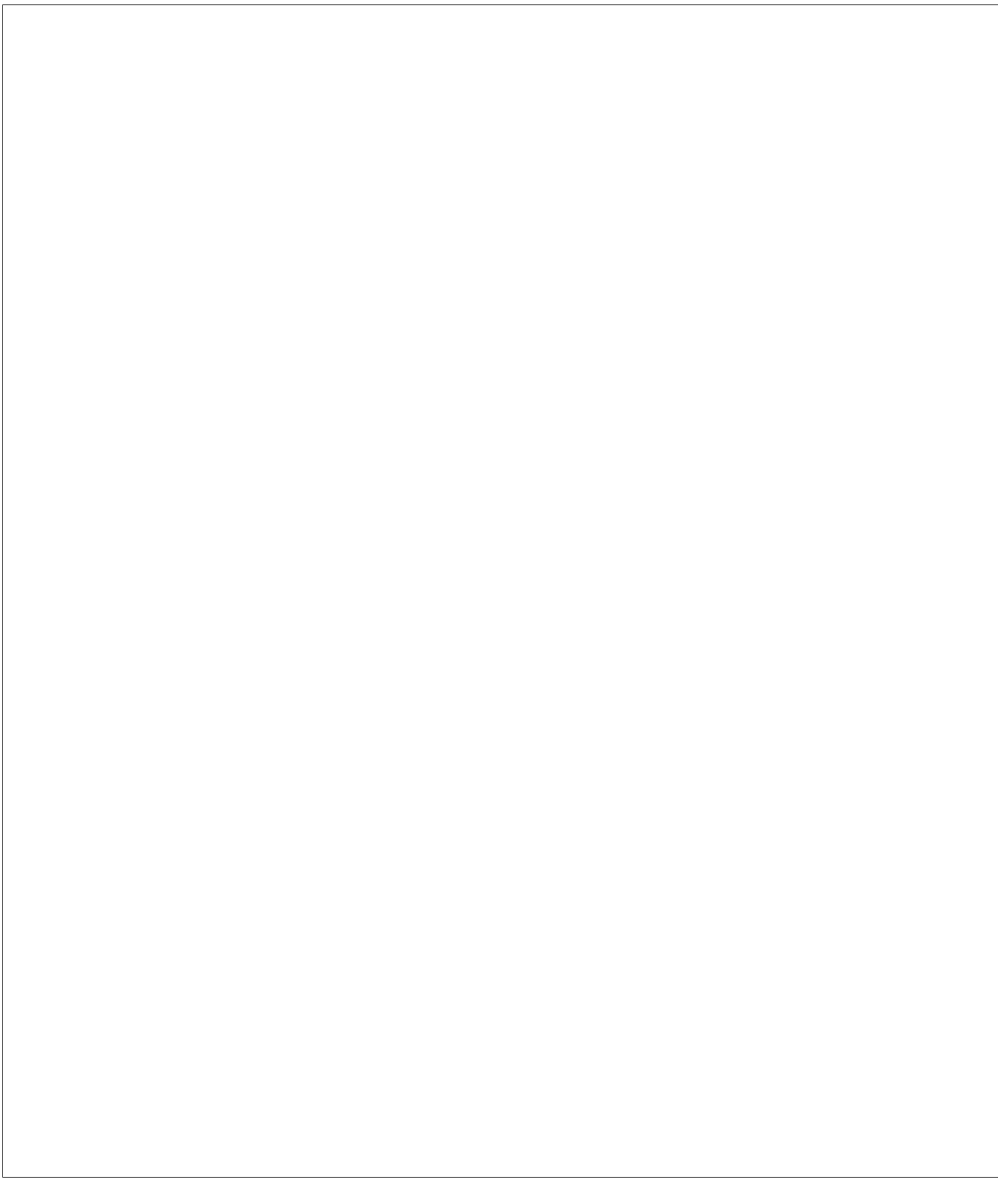
(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

SOW-4.1.2.1.12. (U) Facility Inspection. The Contractor shall allow NGA security personnel to conduct inspections of all their ground facilities at any time for the duration of the contract.

**SOW-4.1.3 (U) NRO Program Security**



(b)(3)

~~SECRET//NOFORN~~

**Page Denied**

~~SECRET//NOFORN~~



(b)(3)

**SOW-4.1.4 (U) License to Operate U.S. Commercial Remote Sensing Imaging Satellites**

(U) The Contractor shall possess, prior to contract award and at all times during the contract period of performance, the requisite license(s) from the U.S. Department of Commerce (DoC) to operate high-resolution satellite systems capable of providing imagery that meets Contractor requirements. The Contractor shall provide the following documentation used in obtaining and maintaining such license(s), including updates, to the Government upon request:

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

1. A copy of the valid (most current and applicable) DoC Operating License(s).
2. A list of any in-place foreign agreements and contracts.
3. A list of foreign countries with which the Contractor does business.
4. A copy of all data protection plans (DPPs)

(U) Notes:

- a. (U) In-place foreign agreements and contracts will be provided as required in 15 Code of Federal Regulations (CFR) Part 960, Section 960.8 regarding Notification of Foreign Agreements.
- b. (U) A list of foreign countries with which the Contractor does business will be provided as required in 15 CFR Part 960.
- c. (U) A copy of all DPPs will be provided as required in 15 CFR Part 960.

**SOW-4.1.5 (U) Copyright and Commercial Sales**

(U) All wideband telemetry, imagery, and imagery-support data acquired by the Government under this contract shall be provided in accordance with the NextView Imagery End User License Agreement (per Table 1).

**SOW-4.1.6 (U) Cloud Provider Relationship and Financial Arrangement**



(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~



(b)(3)

Formatted: Level4, Tab stops: 1.25", Left + Not at 1"

**SOW-4.2. (U) Imagery Procurement (Contract Line Item Number (CLIN) 0001)**

~~(S//REL TO USA, FVEY)~~ This task includes:

(b)(1)  
(b)(3)

**SOW-4.2.1 (U) Imagery Type**

SOW-4.2.1.1. (U) Panchromatic Imagery. The Contractor shall provide Electro-Optical (EO) panchromatic (PAN) imagery. The system response to a neutral reflective surface illuminated by the solar spectrum outside the spectral range

(b)(3)

SOW-4.2.1.2. (U) Multispectral Imagery. The Contractor shall collect multispectral imagery (MSI) and PAN   
 according to Table 3. At a minimum,

(b)(3)

TABLE IS UNCLASSIFIED

	Vehicle	Band Groups	Bands & Spectral Range
Imagery	<input type="text"/>		

(b)(3)

~~SECRET//NOFORN~~



~~SECRET//NOFORN~~

	Vehicle	Band Groups	Bands & Spectral Range

(b)(3)

Table 3 – (U) Multispectral Imagery

(U) Notes:

\* The default delivery mode is 4-Band MSI.

SOW-4.2.1.3. (U) SWIR and CAVIS. The Contractor shall collect Short-Wave Infrared Resolution (SWIR) imagery and Clouds, Aerosols, Vapors, Ice, and Snow (CAVIS) data according to Table 4-1.

TABLE IS UNCLASSIFIED	

(b)(3)

**SOW-4.2.2 (U) Imagery Quality**

**SOW-4.2.2.1. (U) Panchromatic Imagery**

SOW-4.2.2.1.1. (U) Panchromatic Imagery Modulation Transfer Function (MTF). PAN imagery, taken at nadir, shall exhibit a system MTF at Nyquist (MTFNyquist) no less than 0.1.

SOW-4.2.2.1.2. (U) Panchromatic Sensor Optical-Q. PAN imagery shall be produced from an imagery system(s) with an optical-Q no more than 1.3. Optical-Q is defined as follows:

$$Q = \frac{\lambda F_N}{p}$$

$\lambda$  = center wavelength

$F_N$  = F - number = focal length / aperture diameter

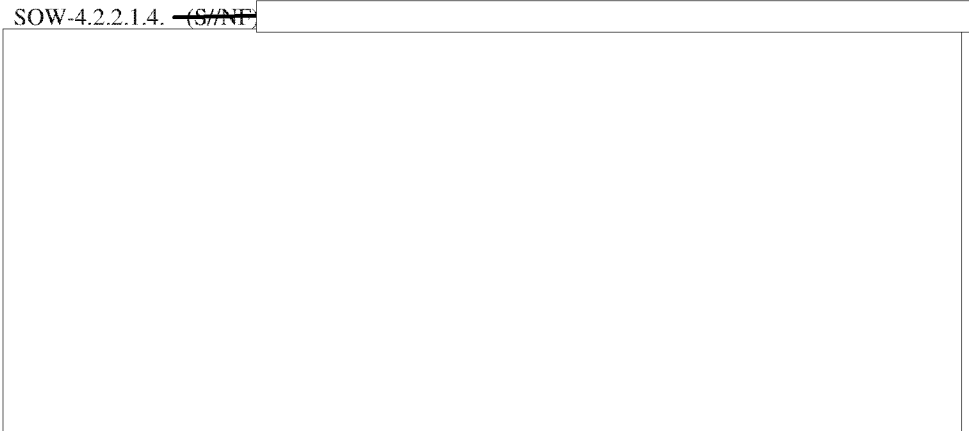
p = detector pitch

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

SOW-4.2.2.1.3. (U) Panchromatic Imagery Signal to Noise Ratio (SNR). PAN imagery, acquired with a target elevation angle > 60 degrees and a sun elevation > 30 degrees in a mid-latitude atmosphere shall demonstrate a SNR in excess of 10 per pixel evaluated over a random sample of land imagery.

SOW-4.2.2.1.4. ~~(S//NF)~~ [Redacted]



(b)(1)  
(b)(3)

SOW-4.2.2.2. (U) Multispectral Imagery

SOW-4.2.2.2.1. (U) Multispectral Imagery Ground Sample Distance (GSD). The nadir GSD of MSI shall be no worse than four times that of PAN imagery.

SOW-4.2.2.2.2. (U) Multispectral Imagery MTF. MSI, taken at nadir, shall exhibit a system MTFNyquist no less than 0.1.

SOW-4.2.2.2.3. (U) Multispectral Band-to-Band Registration. For all Multispectral (MS) bands, pixel centroids shall be registered to within the values listed in Table 4 of [Redacted]



(b)(3)

Vehicle	MSI Band-to-Band Registration
[Redacted]	

(b)(3)

Table 4 – (U) MSI Band-to-Band Registration

SOW-4.2.2.3. (U) Banding and Streaking. Within a given spectral band, non-scene related deviations from a flat field over the extent of the delivered product shall be no more than 4%.

SOW-4.2.2.4. (U) Independent Test and Evaluation for New Imagery Sources

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~



(b)(3)

**SOW-4.2.3 (U) Access Characteristics**

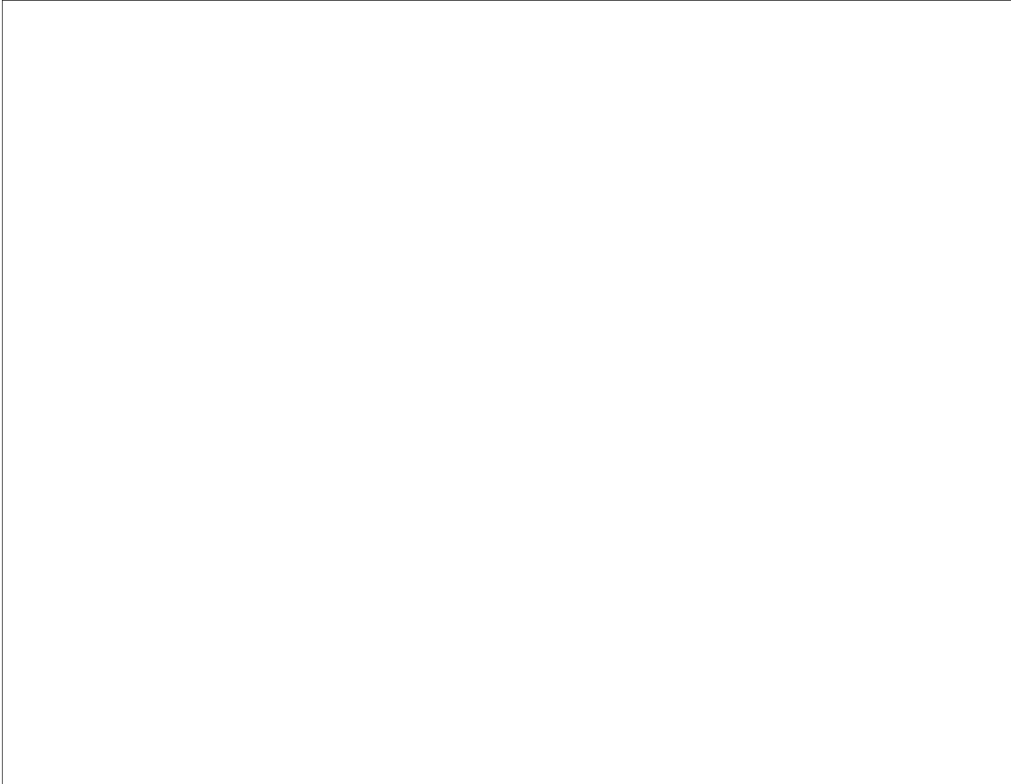
SOW-4.2.3.1. (U) Global Access. The Contractor shall be capable of imaging any location on the earth. The Government may relax the geometric access conditions and sun elevation angle constraints on a case-by-case basis as conveyed to the Contractor via individual imagery tasking orders.



(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~



(b)(3)

**SOW-4.2.4 (U) Collection and Production**

SOW-4.2.4.1. (U) ~~Table 5~~ identifies the assets that comprise the constellation. The Table also describes the collection capacities for the constellation as a whole (Monthly Collection Capacity) and collection capacities available to the Government (Monthly Collection Capacity Available to the Government by Satellite), as well as the production capacity (delivery) (Monthly Production Capacity Available to the Government) for PAN MONO and PAN+MSI monoscopic imagery data.

~~SECRET//NOFORN~~

**Page Denied**

**Page Denied**

~~SECRET//NOFORN~~TABLE IS UNCLASSIFIED//~~FOUO~~

(b)(3)

SOW-4.2.4.2. (U) Improvements to Satellite Constellation or Ground Assets. During the period of performance, the Contractor may make improvements to its satellite constellation or ground assets that result in improved collection efficiency or in improved system capacity.

SOW-4.2.4.2.1. (U) Improvements in Collection Efficiency (“Efficiency Improvement”). Efficiency Improvement is defined as system improvements that enable satisfaction of a greater area or greater number of points in a single satellite pass than originally contemplated (i.e., improvements that increase the amount of imagery that can be collected on a specific satellite pass over a single ground target/region). The Government will share such per-pass collection improvements to the extent proportionate with the constellation capacity purchased under this agreement with no increase in price, but these improvements will not result in an adjustment of the Monthly Collection Capacity, except for an improvement due to improved on-board compression algorithms or an improvement due to satellite collection line rates, which shall result in an upward adjustment of the Monthly Collection Capacity, to the extent that such improvement can be realized using solely the infrastructure specified in this agreement.

(U) Examples of such improvements that will not result in an adjustment of the Monthly Collection Capacity include, but are not limited to: improvements in collection planning algorithms to allow more efficient maneuvering between individual images, or improvements in the satellite control algorithms that allow faster slewing between images.

SOW-4.2.4.2.2. (U) Improvements in Total System Collection Capacity (“System Capacity Improvements”). System Capacity Improvements are defined as system improvements that enable collection of more total area (e.g., Increased Monthly Collection Capacity) than originally contemplated, resulting from investment in improvements to infrastructure specified in this agreement, addition of infrastructure, or technological innovation. Any such improvements, and the resulting Increased Monthly Collection Capacity, in total system collection capacity will be owned and managed exclusively by the Contractor; provided, however, that the use and management of said Increased Monthly Collection Capacity by the Contractor will not impair any rights of the Government under this agreement, including any applicable pre-emptive rights. As a specific example of this protection, if the Contractor realizes Increased Monthly Collection

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

Capacity as provided above adds capacity in this manner, the Contractor can sell such additional capacity commercially, or may use such capacity itself for content collection or non-Government customer orders (or offer it to Government for a mutually agreeable increase in the price), but it cannot do so in such a manner as to reduce the overall probability of Government requirement satisfaction in circumstances due to priority conflicts, as currently established at the capacity levels existing at the time of execution of this agreement.

(U) Examples of such improvements that may result in Increased Monthly Collection Capacity include, but are not limited to: additional ground stations or satellites beyond those included in this agreement, improvements to ground stations to increase their average per-pass contact duration, increases in telecommunications capacity from ground stations to enable greater data backhaul, additional antennas at ground stations to enable simultaneous communications with multiple satellites, or changes to the design of future satellites that enable performance beyond the levels committed in this agreement.

SOW-4.2.4.2.3. (U) Right of First Refusal. To the extent the Contractor implements System Capacity Improvements that result in Increased Monthly Collection Capacity, the Government will have a right of first refusal to acquire all or a subset of the Increased Monthly Collection Capacity before any third parties or reservation of the capacity by the Contractor. The right of first refusal may be exercised as follows:

(U) At such time as the Contractor has identified any Increased Monthly Collection Capacity, the Contractor shall notify the Government in writing of the capacity increase. Upon receipt of such notice, the Government will have 15 business days to notify the Contractor in writing that it is exercising its right of first refusal and confirming agreement to negotiate the price and any other material terms for the additional capacity. Upon receipt of this confirmation and negotiations, the parties will execute the appropriate modification to the Contract to add the Increased Monthly Collection Capacity on the price and other terms as mutually agreed to. If the Parties cannot agree on price and/or other material terms within 30 days of the Government's notice, the Contractor may offer the additional capacity to other third parties or reserve the capacity for its own use.

(U) To the extent that Contractor elects to sell or reserve such Increased Monthly Collection Capacity, the Contractor's sale or use of said Capacity shall not interfere with any existing rights of the Government under this Contract.

SOW-4.2.4.3. (U) Products Ordered Capacity Adjustments

SOW-4.2.4.3.1. (U) The Contractor shall use the Table below for capacity adjustments based on the types of products ordered.

TABLE IS UNCLASSIFIED

Product	PAN Mono Area Equivalent for Collection Capacity	PAN Mono Area Equivalent for Production Capacity

(b)(3)

~~SECRET//NOFORN~~



~~SECRET//NOFORN~~

TABLE IS UNCLASSIFIED

Product	PAN Mono Area Equivalent for Collection Capacity	PAN Mono Area Equivalent for Production Capacity

(b)(3)

Table 6 – (U) PAN Mono Area Equivalent

(U) Notes to Table 6:

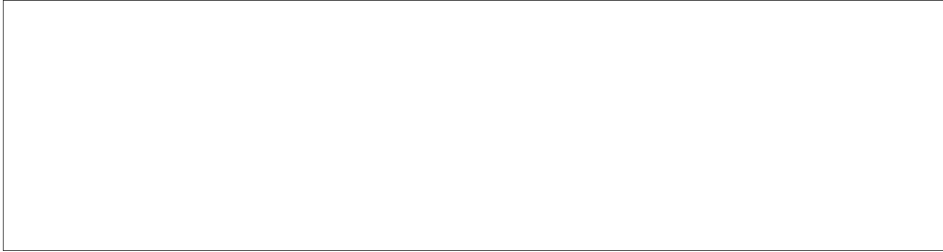
Formatted: Font color: Black

--

(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~



(b)(3)

**SOW-4.2.5 (U) Tasking, Processing, and Dissemination**

SOW-4.2.5.1. (U) Tasking

SOW-4.2.5.1.1. (U//~~FOUO~~)

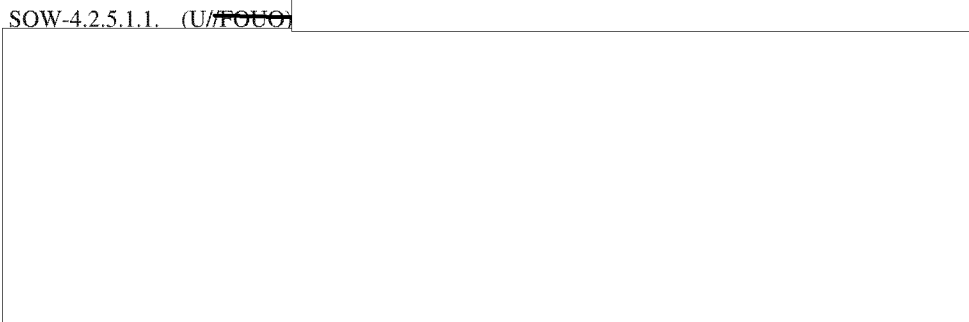
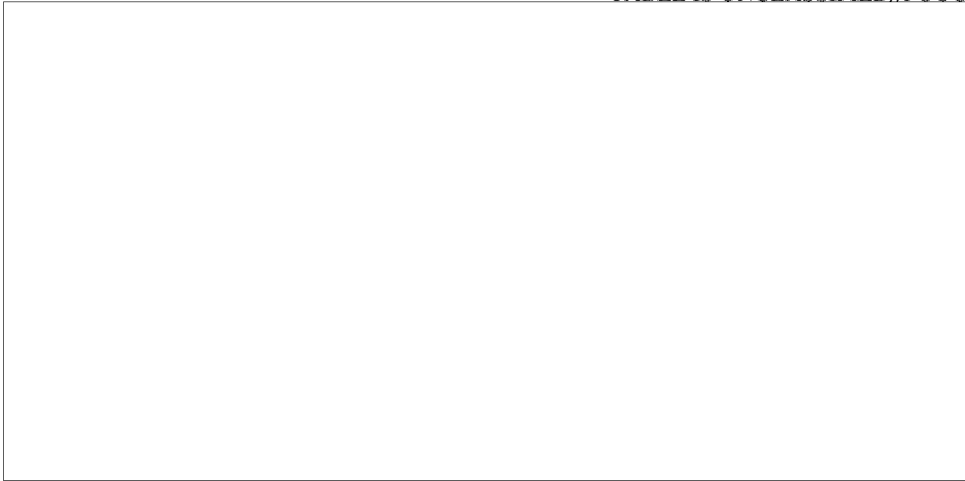


TABLE IS UNCLASSIFIED//~~FOUO~~



(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

(b)(3)

Empty table content
---------------------

**Table 7 - (U) Government Order Priority Levels**

SOW-4.2.5.1.2. (U) End-to-End Timelines. For all tasking levels, imagery shall be delivered to the USG within the value and phasing as specified in Table 8, as measured from the start of imagery acquisition to the completion of production.

(U) Any "excess" Ad Hoc imagery beyond 20% per revolution shall be delivered as fast as system resources allow. The Contractor shall make its best efforts to meet these timeframes for Ad Hocs that exceed 20% per orbit. All tasking requirements shall be assumed to be globally distributed.

~~TABLE IS UNCLASSIFIED//FOUO~~

<b>Tasking Priority</b>	<b>Tasking to Product Delivery</b>
-------------------------	------------------------------------

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

~~TABLE IS UNCLASSIFIED//FOUO~~

[Empty rectangular box representing a table or diagram content.]

(b)(3)

Table 8 – (U) Tasking Uplink to Product Delivery Latency

SOW-4.2.5.1.3. (U) Area target orders may require multiple image acquisitions to fulfill. Multiple image acquisitions will be delivered electronically or on media as discrete image files on an incremental basis. Multiple images used to satisfy a single area target order meet the following overlap requirements, Figure 1. The minimum along-scan overlap region shall be 1.0 km. The minimum cross-scan overlap region shall be 1.0 km

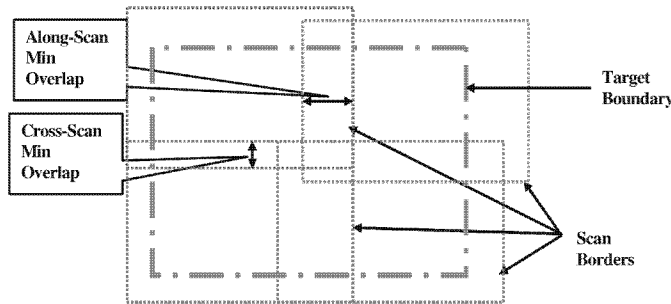


Figure 1 – (U) Along & Cross Scan Minimum Overlap

SOW-4.2.5.1.4. (U) If, in the fulfillment of a single order, the Contractor delivers two or more images with coincident coverage in the overlap region, the sqnmi that are accrued for contract satisfaction will not include such regions in the second and subsequent images.

SOW-4.2.5.1.5. (U) Other Tasking Means. The Contractor shall also accept orders via telephone, faxes, and e-mails through any networks from Government-authorized government personnel, who will be designated by the CO/COTR. It is the presumption of the Government and the Contractor that the predominant method of ordering will be electronic.

(U) Tasking to uplink timelines is supported on a best-efforts basis for tasking received via Other Tasking Means. Tasking received via Other Tasking Means typically requires 15 minutes of manual actions to convert to electronic tasking for subsequent uplink planning.

SOW-4.2.5.1.6. (U) Frequency of Action. The imagery provider shall accept tasking orders and allow modification to tasking orders per the values in Table 9.

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

TABLE IS UNCLASSIFIED



(b)(3)

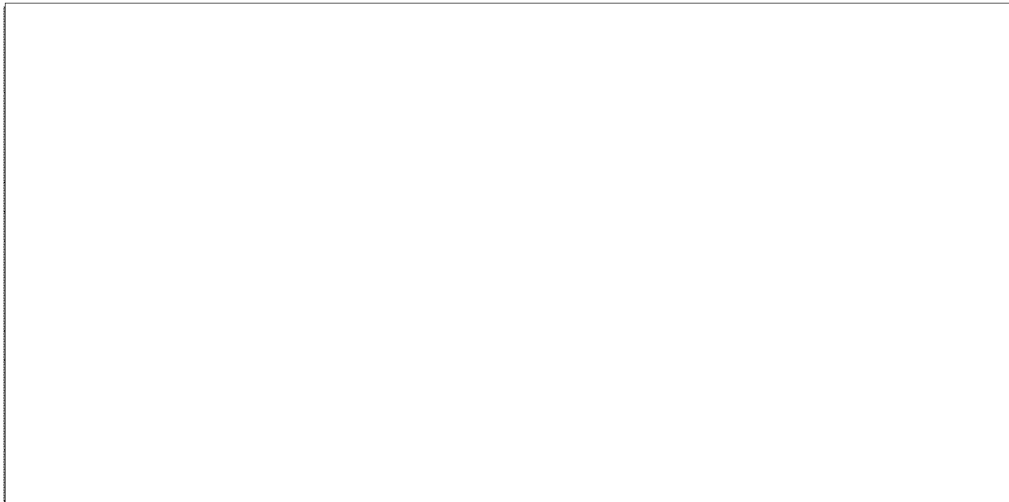
Table 9 – (U) Tasking to Uplink

SOW-4.2.5.1.7. (U//FOUO)



(b)(3)

SOW-4.2.5.1.8. (U) Shapefiles. The Contractor shall deliver shapefiles for all imagery available pursuant to this contract. The Contractor shall deliver shapefiles to the Government via File Transfer Protocol (FTP) that contain the following:



(b)(3)

SOW-4.2.5.2. (U) Archive Data Access Service

SOW-4.2.5.2.1. (U) The Contractor shall provide the Government with a NextView license and access to all images collected from IKONOS, QuickBird, GeoEye-1, WV01, WV02, WV03, and

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

any other image purchased under this contract, except for exempt Direct Access Program (DAP) tasking on Contractor revs, at no cost regardless of the original tasking entity, including imagery collected prior to this contract. The Government can order imagery from the library in accordance with SOW-4.2.5.1.1 Electronic Tasking and SOW-4.2.5.1.5 Other Tasking Means. Delivery quantities will be limited to the production throughput as previously defined.

SOW-4.2.5.2.2. (U) The Contractor shall include a list of all exempt DAPs in the Program Management Review (CDRL A001, PMR Slides).

SOW-4.2.5.2.3. (U//~~FOUO~~) [Redacted]

(b)(3)

SOW-4.2.5.2.4. The Contractor shall provide access to raw imagery browses through a Contractor discovery tool. The raw imagery browses will display within 30 seconds of selecting the catalog ID and clicking on the "view browse image" button.

SOW-4.2.5.3. (U) Permanent Withhold Service

SOW-4.2.5.3.1. ~~(S//REL TO USA, FVEY)~~ [Redacted]

(b)(1)  
(b)(3)

~~(S//REL TO USA, FVEY)~~ [Redacted]

(b)(1)  
(b)(3)

(U//~~FOUO~~) [Redacted]

(b)(3)

~~SECRET//NOFORN~~

**Page Denied**

~~SECRET//NOFORN~~



(b)(3)

SOW-4.2.5.5. (U) Emergencies, Disasters, And Humanitarian Efforts

SOW-4.2.5.5.1. (U) In support of emergencies, disasters, and humanitarian efforts, the NGA may disseminate and/or post on open web sites imagery licensed under this contract regardless of whether the recipients are within the NextView license user groups. The imagery will contain the copyright notice and the NextView license notice. After 30 days, the imagery will be handled in accordance with the NextView license.

SOW-4.2.5.5.2. (U) The Contractor will be given notice within 24 hours after the start of the dissemination/posting of imagery under the authority of this clause.

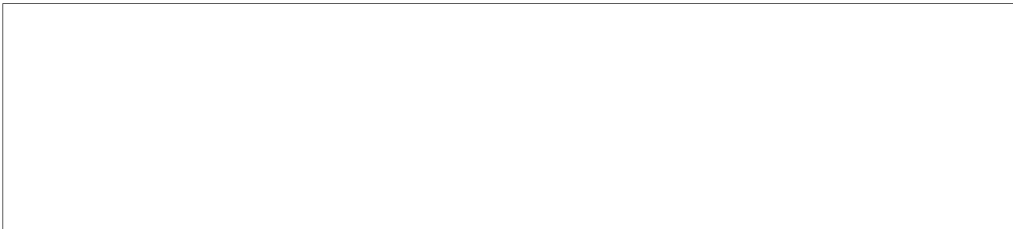
SOW-4.2.5.5.3. (U) If the Contractor does not believe the situation constitutes an emergency, disaster, or humanitarian effort, the Contractor has 24 hours after receiving notice to object to the dissemination/posting of the imagery under the authority of this clause. If the parties cannot reach agreement, the matter will be resolved in accordance with the Disputes Clause and the other terms and conditions of this contract.

SOW-4.2.5.6. (U) Processing

SOW-4.2.5.6.1. (U) Delivery Format. The Contractor shall provide imagery and value-added products in NITF 2.1, using JPEG 2000 as defined in the most recent versions of the NITF 2.1 Commercial Dataset Requirements Document (NCDRD) (per Table 1) or other mutually agreeable format. The Contractor shall provide imagery and value-added products in GeoTIFF as defined in the most recent version of the NGA Standardization Document Implementation Profile for Tagged Image File Format (TIFF) and Geographic Tagged Image File Format (GeoTIFF) (per Table 1).

SOW-4.2.5.6.2. (U) All imagery supplied by the Contractor shall contain the radiometrically and geometrically corrected imagery data.

SOW-4.2.5.7. (U) Delivery



(b)(1)

~~SECRET//NOFORN~~



~~SECRET//NOFORN~~

SOW-4.2.5.7.2. (U) Physical Media Delivery. The Contractor shall use DVD, hard drives or Government-approved media/format combinations to deliver large unclassified imagery orders. See SOW-4.2.5.3 for permanent withhold imagery delivery requirements.

SOW-4.2.5.7.3. (U//~~FOUO~~) [Redacted]

(b)(3)

SOW-4.2.5.8. (U//~~FOUO~~) [Redacted]

(b)(3)

SOW-4.2.5.9. (U) Web Mapping Service (WMS)/Web Coverage Service (WCS)/Web Hosting Service (WHS). The Contractor shall provide the systems, access controls and associated services, including Level 2 user support, to host Mapping Services (see below) and Earth Services (see below). Level 2 user support includes that which primarily occurs between the Contractor's operations personnel and United States Government consolidation points.

- Mapping Services - includes Open Geospatial Consortium-compliant:
  - WMS (used to view imagery),
  - WCS (used to download imagery in multiple formats - GeoPDF, MrSID, or GeoTIFF),
  - Web Feature Services (used to query and get properties of imagery), and
  - Web Mapping Tile Services (tile services will include Current and Base layer and are used to increase performance speed).
- (U) Earth Services
  - Cached and tiled earth service that allows users to view, chip, and download imagery via Google Earth client software.
- (U) MyDigitalGlobe Web Interface
  - Image download in these formats: GeoTIFF; JPEG2000; JPEG; MrSID; NITF 2.1 (NPJE JP2, 4:1); Geo-referenced PDF.
- (U) EarthServices (GoogleEarth support)
  - Image viewing by type (FG, IS, RRO)
  - Image download in these formats: NITF 2.1 (NPJE JP2, 4:1); JPEG2000; GeoTIFF; MrSID; and Geo-referenced PDF.
- (U) Imagery access constraints via:

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

- Geoconstraints: geographic Areas of Interest (AOIs) as defined by NGA administrator

(U) Both the Mapping Services and Earth Services shall be provided on the Internet, NIPRNET, and SIPRNET for use by forward deployed commercial imagery users.

(U) The hosting service shall be capable of accommodating 4,000,000 sqnmi (approximately 13,719,000 sqkm) of AOI on SIPRNET, 3,000,000 sqnmi (approximately 10,289,000 sqkm) of AOI on NIPRNET, and 5,040,000 sqnmi (approximately 17,286,000 sqkm) of AOI on the Internet.

(U) The total web hosting capacity over these AOI can equal up to twice the AOI size. Each AOI can include a base orthorectified imagery layer with associated metadata (“Base Layer”) over specified country codes, plus daily refresh layer with associated metadata (“Current Layer”), on each of the three (3) networks: Internet, NIPRNET and SIPRNET. The imagery content and specified country codes may be different on each network. At a minimum, the hosting service shall be capable of supporting both baseline and augmentation compliant NextView licensed imagery. The hosting service shall be capable of handling at least 1,000 “view only” concurrent users and at least 150GB download per day on each network. The Contractor shall establish means to limit user access by geographics and layers, and download capability, based on a User’s profile. The Contractor shall provide an automatic RSS feed to notify Users of new sources over their defined areas of interests.

(U) The hosting service system downtime will not exceed 2%. Downtime is defined as unscheduled outages preventing access to the vendor’s web hosting service that is within the vendor’s ability to control. Scheduled outages are not included in this measure, and the Contractor shall notify the Government of scheduled outages. Level 2 user support shall be available 24 x 7 for all three networks. The hosting service shall be implemented to permit growth in imagery storage capacity, the number of concurrent users, and ingest of other data sources.

(U) Content services (data processing) will be contracted for separately and transferred to this service at no additional fee.

(U) All imagery products produced herein shall be delivered as directed by the Government to the current Web Hosting Service (WHS) capability, and/or via off-line media, and/or as otherwise directed. Imagery (products) delivered to the WHS becomes GFI and shall remain resident until it is rolled-off in accordance with the conditions stated within the originating Task/Delivery Order or until the Government directs otherwise. Once a Task/Delivery Orders’ performance period is concluded, all GFI shall remain resident on the WHS as allowed under the contract until the Government provides disposition instructions (e.g. remove the GFI or remove and ship via off-line media).

#### **SOW-4.2.6 (U) Imagery Support Data**

SOW-4.2.6.1. (U) Sample Collection Data. The Contractor shall provide representative sample collection planning data to the Government six-months prior to launch of a new imagery collection source.

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

SOW-4.2.6.2. (U) Commercial Tasking History. In support of the Government's analysis of collection history, the Contractor shall provide electronically commercial tasking information history data under the contract.

SOW-4.2.6.3. (U) Rigorous Sensor Model. The Contractor shall provide to the Government camera parameters to include the rigorous sensor model to support the ability to transform from image space to ground space and vice versa. Parameters shall include but are not limited to: information regarding sensor construction & operation, image formation, image formatting and support data, and uncertainties. The Contractor shall not exclude the use of the rigorous sensor model by other contractors in building software exploitation tools.

SOW-4.2.6.4. (U) Community Sensor Model. The Contractor shall provide a Community Sensor Model (CSM) compliant with the CSM Technical Requirements Document (per Table 1) for all satellites in the constellation to facilitate precise image mensuration.

SOW-4.2.6.5. (U) Initial Baseline and Updates. The Contractor shall provide an initial baseline and updates to the system design including calibration data for multispectral and panchromatic sensors specified in the Calibration Data for Multispectral and Panchromatic Sensors (CDRL A008). Baseline and Updates to System Design to include calibration data for multispectral and panchromatic sensors); system integration plan; and system, subsystem, and component testing plan and activities. The Contractor also shall notify the Government of any changes to the system design, integration and system, subsystem and component testing during development and operations at least 30 days in advance of any such change. For systems requiring security certification and accreditation for operation, such notifications, updates, and approval to proceed if necessary shall comply with applicable requirements.

SOW-4.2.6.6. (U//~~FOUO~~) [Redacted]

(b)(3)

SOW-4.2.6.7. (U//~~FOUO~~) [Redacted]

(b)(3)

SOW-4.2.6.8. (U//~~FOUO~~) [Redacted]

(b)(3)

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

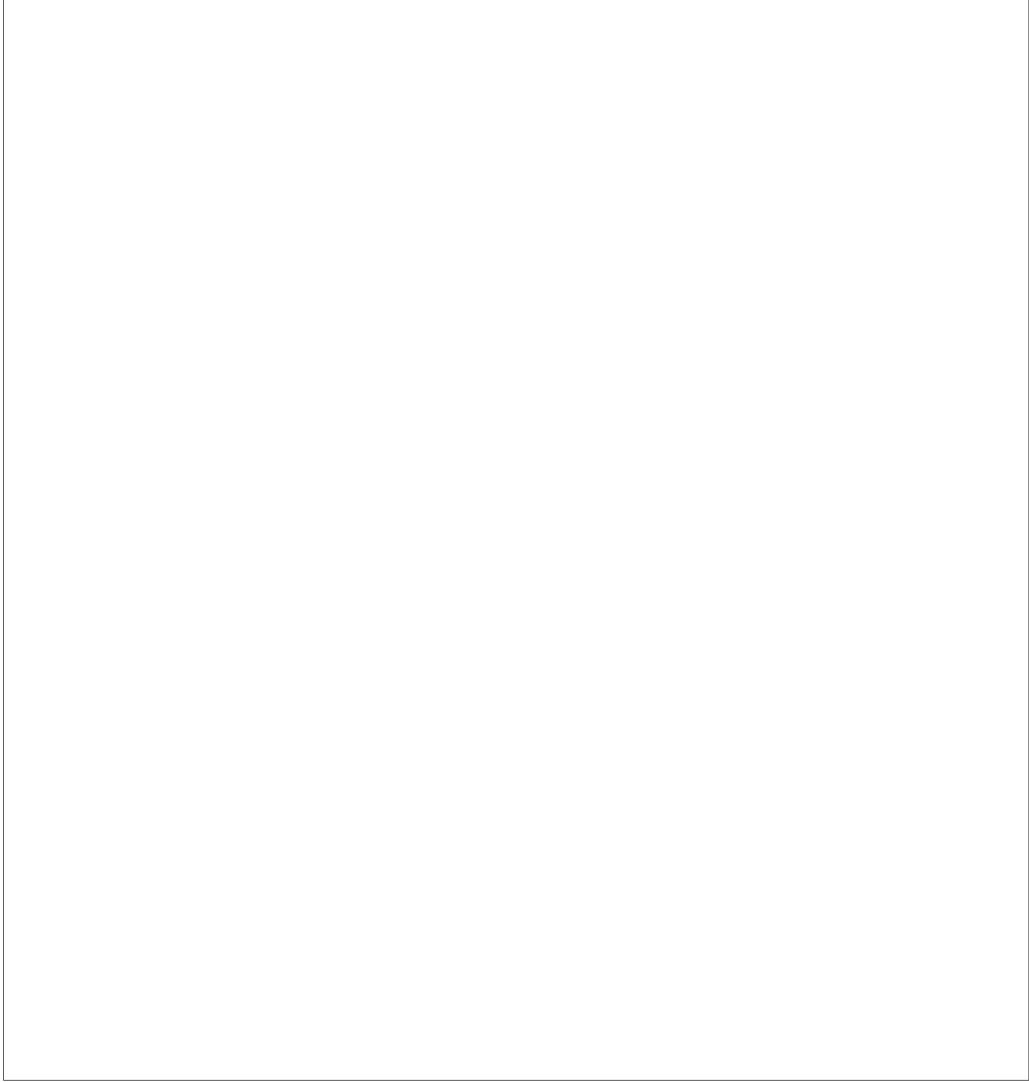
SOW-4.2.6.9. (U) The Contractor shall provide an Imagery Acquisition Quality Plan (CDRL A009, Imagery Acquisition Quality Plan).

**SOW-4.2.7 (U) Secure Operations**

SOW-4.2.7.1. ~~(S//REL TO USA, FVEY)~~



(b)(1)  
(b)(3)



**SOW-4.2.8 (U) Reserved**

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~**SOW-4.2.9 (U) Reserved****SOW-4.2.10 (U) Reserved****SOW-4.3. (U) Systems Engineering, Analysis, and Studies (CLIN 0002)**

SOW-4.3.1.1. (U) Systems Engineering, Analysis and Studies.

SOW-4.3.1.1.1. (U) The Contractor shall formulate and conduct studies and analyses, to support:

- (U) Definition, allocation, assessment, prediction, and verification/validation of performance requirements and capabilities
- (U) Mission utility assessments
- (U) Future system and architecture trades and analysis of alternatives
- (U) Request for Change (RFC) Impact Assessments (CDRL A010, RFC Impact Assessments) and Cost Estimates (CDRL A011, Cost Assessments).
- (U) Problem Reports (CDRL A012, Problem Reports), Discrepancy Reports (CDRL A013, Discrepancy Reports), Enhancement Reports (CDRL A014, Enhancement Reports), Problem Report Technical Investigation inputs, Pink Page inputs, and Change Control Notices as prescribed by the Joint Interface Control Process Guidebook and as needed.
- (U) The Contractor shall provide study reports, briefing charts, or information to be included in Government-prepared briefings as required.

(U) The Contractor shall provide study plans and analysis reports in support of the tasks included in this Statement of Work. (CDRL A015, Analysis and Studies Plans and Reports). The Contractor shall support Government reviews of studies and analyses results. The Government anticipates two studies or analyses per year.

SOW-4.3.1.2. (U) Integration and Testing Support Services

SOW-4.3.1.2.1. (U) The Contractor shall support the preparation of test data sets, interface testing plans and procedures, and shall provide support for test readiness reviews, test execution, and testing of the interfaces as well as testing of functional changes that potentially affect the interfaces. The Government anticipates the need for support to one integration and test event per year.

SOW-4.3.1.2.2. (U) The Contractor shall troubleshoot and fix problems with the test data and provide technical assistance to Government segment developers attempting to implement capabilities to ingest or exploit the data. The Government anticipates one troubleshooting for problem fix per year.

SOW-4.3.1.2.3. (U) The Contractor shall support studies of the ordering process and the strategies tools and tradecraft that support efficient collection, tracking, prediction, and reporting.

37

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

This may necessitate supporting development of both operational and financial metric accounting. The Government anticipates one ordering process study per year.

SOW-4.3.1.3. (U) Service Agreement Management

SOW-4.3.1.3.1. (U) The Contractor shall provide systems engineering support to review and assess impacts of proposed future revisions of the CDPSS and other compliance documents in this contract (Table 1). The Government anticipates two compliance document reviews and assessments per year.

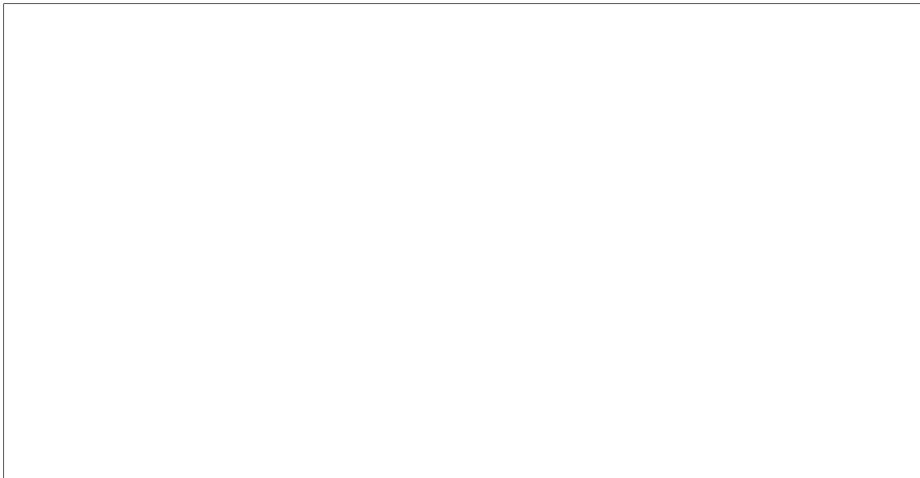
SOW-4.3.1.3.2. (U) The Contractor shall participate in Technical Exchange Meetings (TEMs) to discuss potential future enhancements to the Contractor and Government architectures to improve the tasking and delivery of imagery. The Contractor shall generate necessary artifacts, engineering assessments, and estimated impacts to the architecture to support these discussions. The Government anticipates participation in two TEMs per year.

SOW-4.3.1.3.3. (U) The Contractor shall participate in regular Government systems engineering forums, such as the Commercial Imagery Architecture Review Board, the Commercial Imagery Integrated Product Team, and the Systems Engineering Tag-up.

SOW-4.3.1.4. (U) Deliverables

SOW-4.3.1.4.1. (U) For each task under this CLIN, the Contractor shall include monthly Progress Reports identifying each task authorized with a short narrative on activities conducted during the reporting period, to include an estimated percentage of completion in both hours and dollars, and resource expenditure reporting (hours and dollars charged by labor category) in the PMR (CDRL A001, PMR Slides).

**SOW-4.4. (U) Secure Operations (SecOps) Modernization (CLIN 0003)**



(b)(3)

~~SECRET//NOFORN~~

**Page Denied**

**Page Denied**



**Page Denied**

**Page Denied**

**Page Denied**

~~SECRET//NOFORN~~**APPENDIX A DELIVERABLES**

(U) The Contractor shall develop and deliver the contract management CDRLs shown in Table 10.

<b>CDRL</b>	<b>Title/Description</b>	<b>SOW Requirement</b>	<b>CLIN</b>
A001	Program Management Review Slides	SOW-4.1.1.1, SOW-4.2.5.2.2, SOW-4.3.1.4.1	0001, 0002
A002	Meeting Minutes	SOW-4.1.1.3	0001
A003	Daily Operation Capability Report	SOW-4.1.1.4	0001
A004	Promote Synopsis	SOW-4.1.1.5	0001
A005	Lifecycle Security Program Protection Plan	SOW-4.1.3.3	0001
A006	Security Standard Operating Procedures	SOW-4.1.3.4	0001
A007	Security Migration Plan	SOW-4.1.3.8	0001
A008	Calibration Data for Multispectral and Panchromatic Sensors	SOW-4.2.6.5	0001
A009	Imagery Acquisition Quality Plan	SOW-4.2.6.9	0001
A010	Request for Change Impact Assessments	SOW-4.3.1.1.1	0002
A011	Cost Assessments	SOW-4.3.1.1.1	0002
A012	Problem Reports	SOW-4.3.1.1.1	0002
A013	Discrepancy Reports	SOW-4.3.1.1.1	0002
A014	Enhancement Reports	SOW-4.3.1.1.1	0002
A015	Analysis and Studies Plans and Reports	SOW-4.3.1.1.1	0002
A016	Kickoff	SOW-4.5	0004
A017	Security CONOPs	SOW-4.5	0004
A018	Initial Feasibility Analysis and OV-1	SOW-4.5	0004
A019	System Requirements	SOW-4.5	0004
A020	System CONOPs	SOW-4.5	0004
A021	Communications Interface Control Document	SOW-4.5	0004
A022	Ground Architecture Concept	SOW-4.5	0004
A023	Demonstration Test Plan	SOW-4.5	0004
A024	Final Review TEM	SOW-4.5	0004

**Table 10 – (U) Data Deliverables and Reports**

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~**APPENDIX B ACRONYMS**

TABLE IS UNCLASSIFIED

A&A	Assessment and Authorization
AOI	Area of Interest
ATS-B	Accuracy Transfer System Phase B
CAVIS	Clouds, Aerosols, Vapors, Ice, and Snow
CBPI	Corporate Business Process Instruction
CDP	Commercial Data Provider
CDPSS	Commercial Data Provider Services Specification
CDRL	Contract Data Requirements List
CE90	Circular Error Probability
CFR	Code of Federal Regulations
CI	Commercial Imagery
CIB	Controlled Image Based
CJCSI	Chairman of the Joint Chiefs of Staff Instructions
CLIN	Contract Line Item Number
CO	Contracting Officer
COR	Contracting Officer's Representative
COTR	Contracting Officer's Technical Representative
CSPO	Commercial Systems Program Office
CSM	Community Sensor Model
DAA	Designated Accreditation Authority
DAF	Direct Access Facility
DAP	Direct Access Program
DCID	Director of Central Intelligence Directive
DoC	Department of Commerce
DPP	Data Protection Plan
EO	Electro-Optical
EOL	End of Life
ESI	Equivalent Square Image
EV	Enhanced View
FAR	Federal Acquisition Regulation
FAT	Factory Acceptance Test
F&ISD	Facilities and Information Division
FTP	File Transfer Protocol
FTPS	Secure File Transfer Protocol
GEOINT	Geospatial-Intelligence
GeoTIFF	Geographic Tagged Image File Format
GFE	Government Furnished Equipment
GFI	Government Furnished Information
GSD	Ground Sample Distance
HCI	High Current Interest
IA	Information Assurance
IASD	Information Assurance Standards Document
ICD	Intelligence Community Directive

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

IPA	Industry Partner Access
IS	Information System
ISSM	Information Systems Security Manager
ISSO	Information Systems Security Officer
IT	Information Technology
IWTA	Inter Work Transfer Authority
JITC	Joint Interoperability and Test Command
JTF-GNO	Joint Task Force - Global Network Operations
LSPPP	Lifecycle Security Program Protection Plan
MONO	Monoscopic
MS	Multispectral
MSI	Multispectral Imagery
MTF	Modulation Transfer Function
MTFNyquist	MTF at Nyquist
MTTA	Mean Time to Access
N/A	Not Applicable
NCDRD	NITF Version 2.1 Commercial Dataset Requirements Document
NGA	National Geospatial-Intelligence Agency
NIQU	NGA Image Quality and Utility Program
NITF	National Imagery Transmission Format
NRO	National Reconnaissance Office
NSG	National System for Geospatial-Intelligence
NSM	NRO Security Manual
NSPD	National Security Presidential Directives
NTO	NGA Test Organization
OPSEC	Operation Security
OR2A	Ortho-Ready Standard
PAN	Panchromatic
PMR	Program Management Review
PSO	Program Security Officer
PUG	Privileged User Guide
RFC	Request for Change
SAW	Satellite Access Window
SCA	Security Certification Assessor
SCG	Security Classification Guide
SCI	Sensitive Compartmented Information
SNR	Signal to Noise Ratio
SOP	Standard Operating Procedures
SOW	Statement of Work
SWIR	Short-Wave Infrared Resolution
TEM	Technical Exchange Meeting
TIFF	Tagged Image File Format
TS	Top Secret
U.S.	United States
VNIR	Visible through Near Infrared
WCS	Web Coverage Service
WHS	Web Hosting Service
WMS	Web Mapping Service
WV	WorldView

~~SECRET//NOFORN~~

~~SECRET//NOFORN~~

APPENDIX C GLOSSARY OF TERMS

- (U) **Ad Hoc**: tasking refers to the government’s most urgent tasking requirements. The Ad Hoc tasking levels have the highest priority in the Contractor’s collection planning system on USG revs. These tasking levels have the highest priority throughout the Contractor’s ground system.
- (U) **Cloud Protected Ad Hoc**: tasking level has the highest priority in the Contractor’s collection planning system on USG revs, but takes longer to deliver due to the cloud cover assessment.

• (U/~~FOUO~~) **Contingency**: [Redacted]

(b)(3)

- (U) **Delivery Capacity**: (Table 5) The minimum production capacity supplied by the Contractor in order to satisfy contractual production requirements.
- (U) **Government Point of Presence**: The physical location where imagery, value-added products and imagery services, and imagery support data from the Contractor enter a Government owned and operated system. Entirety of transmission of imagery, value-added products and imagery services, and imagery support data from the Contractor owned and operated system to a Government owned and operated system is required for the data to be considered delivered to the Government Point of Presence.
- (U) **Imagery**: Processed sensor data, the associated metadata, and “thumbnail” representations of imagery.
- (U) **Imagery Support Data**: The list of images to be collected, collection plan, the data related to tasking, collection, processing, and dissemination, mission awareness, collection feasibility, and operational forecasting services, and other system-related data and deliverables.
- (U) **Non Ad Hoc**: tasking refers to non-urgent USG tasking requirements and product delivery timeframes.
- (U) **Pre-emptive Tasking**: The ability of the Government tasking to pre-empt previously scheduled customers.

• ~~(S//REL TO USA, FVEY)~~ [Redacted]

(b)(1)  
(b)(3)

- (U) **Value-added Imagery Services**: Include services to enhance the presentation, delivery, and usability of imagery to the end user.
- (U) **Value-added Products**: Includes imagery processing such as geopositioning, color enhancing, orthorectification, generation of 3-dimensional imaging products, and similar capabilities.
- (U) **Wideband telemetry**: The imagery and mission support data that are collected and directly downlinked from commercial imaging satellites to ground stations.

~~SECRET//NOFORN~~