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ECIB® Prototype Product Specific Guidance

ECIB® 0.5 Meter / ECIB® 1 Meter / ECIB® 5 Meter

(Future: ECIB® 10 Meter)

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Version 1.2

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1.0 SCOPE

1.1 Purpose

NGA provides digital data, hardcopy maps and specialized charting products at various scales to its customers. This information is used primarily to support military and civilian planning operations.

1.2 Introduction

The Consolidated Task Order (CTO) may include the production of any or all of the hard and softcopy Geospatial products identified in the Requirements Section, 2.0. Periods of performances for individual CLINs and SubCLINs shall be as defined in the contract.

The Contractor must furnish all facilities, services, labor, materials, management, and equipment, unless specifically identified otherwise, necessary to provide the services identified within this guidance document, related attachments and the terms and conditions contained in the current contract.

1.3 Production

The Contractor shall be required to perform all tasks necessary to produce deliverables or services as defined in this guidance document from the supplied GFI. All deliverables shall be properly classified.

All final deliverables must be on WGS84 horizontal and vertical ellipsoid reference frame. Elevation source conversion from geoid to WGS84 ellipsoid must be based on Earth Gravity Model 1996 (EGM96).

If the Contractor acquires sources on its own and feels that these acquired sources will greatly benefit any of the below identified requirements, the Contractor shall notify and obtain approval from the NGA COR before implementation of contractor-acquired sources. **There is no requirement associated with this Production Guidance for the Contractor to acquire additional sources.** These sources, if approved by the NGA Lead COR, must be positionally held to the control base within specified error budget stated for each defined requirement below. The Contractor shall refer to section 4.0 for accuracies.

The Contractor must tailor all metadata to accurately document positional reliability, source, and data currency.

The Contractor must retain archive (backup) copies indefinitely as these archive (backup) copies may be required to regenerate or merge to existing cells (Gold Copy).

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GFI Inspection. The Contractor must review all GFI provided to ensure completeness and adequacy for anticipated processes. All discrepancies shall be communicated in writing to the NGA COR in accordance with the Government Property Clause of the base GDS contract.

With the exception of Subcontractor(s), the Contractor shall not distribute or copy any GFI or Contractor-generated data without written permission from the Contracting Officer (KO). Upon final completion and acceptance of this task order, the Contractor must either destroy all GFI or return all GFI to NGA. Contact the NGA COR for instructions.

2.0 REQUIREMENTS

**Enhanced Controlled Image Base® (ECIB®) – 0.5-meter, 1-meter, 2-meter, 5-meter
Future: 10-meter**

2.1 Delivery Schedule

Contractor shall provide eight Enhanced Controlled Image Base® (ECIB®) - ECIB® prototypes in the following resolutions:

- 4 - 0.5 (half) meter pan-sharpened or panchromatic commercial imagery NITF 2.1/J2K compressed
 - 1 - 1 meter pan-sharpened or panchromatic commercial imagery NITF 2.1/J2K compressed
 - 1 - 2 meter pan-sharpened or panchromatic commercial imagery NITF 2.1/J2K compressed
 - 1 - 5 meter pan-sharpened or panchromatic commercial imagery NITF 2.1/J2K compressed
- Future:
- 1 - 10 meter pan-sharpened or panchromatic commercial imagery NITF 2.1/J2K compressed

The Contractor shall provide to NGA, preferably in softcopy, a status update for the ECIB and ECIB products by month. This status will include estimated delivery, source issues, discrepancies, and any issues that will potentially delay delivery. All deliveries shall be delivered to NGA according to NGA's schedule.

2.2 Scope

2.2.1 Introduction

The National Geospatial-Intelligence Agency (NGA) is soliciting contractor support for production and delivery to NGA of the following photogrammetric services.

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NGA requires digital orthorectified images formatted into 0.5 (half) - meter Enhanced Controlled Image Base (ECIB 0.5), 1 meter Enhanced Controlled Image Base (ECIB1), and 2 meter Enhanced Controlled Image Base (ECIB2), and 5 meter Enhanced Controlled Image Base (ECIB5). Future plans include 10 meter Enhanced Controlled Image Base (ECIB10).

Production will involve generating the information using commercial imagery, support data, and digital elevation data. Data sets are to be built in quarter-degree formats (0.5 m) and one-degree cell formats (1m, 2m, 5m) and output on DVD as a standard product.

All ECIB requirements (0.5m, 1m, 2m, 5m) will be produced concurrently over identical geographic areas.

2.2.2 Purpose

This production contract is to produce geospatial information.

2.2.3 Geospatial Information Product Background

ECIB is a digital raster image product where each image pixel position has a specified geographic coordinate and Ground Sample Distance (GSD). ECIB is a dataset of orthophotos, made from rectified pan, pan-sharpened aerial, or space-based images. The ECIB product is utilized in mission planning systems as an image backdrop to assist mission profile development, perspective view generation, digital moving maps and Command, Control, Communications, Computers, and Intelligence (C⁴I) theater battle management. ECIB data files are derived directly from digital images and are reformatted to conform to National Imagery Transmission Format (NITF) 2.1. The ECIB data files are then written to DVD.

2.2.4 Product Specifications

These product specifications reference other documents, various publications, and indicate the sources of availability.

MIL-PRF-32466- *System Specification for Enhanced Controlled Image Base® (ECIB®)*,
12 Dec 2017

MIL-STD-2500C- *National Imagery Transmission Format 2.1*, 01 May 2006

2.3 Guidance

2.3.1 Introduction

The following are general guidelines to follow in the above mentioned production of ECIB. NGA does not want to override Contractor production efficiencies. If there are reasons the Contractor cannot accommodate this guidance, then NGA needs to be informed.

2.3.2 Orthophotography

This service provides rectified photographic copies or images prepared from aerial or space-based imagery. This includes: removal of sensor-specific projection distortions, corrections due to terrain relief displacements, edge enhancements, image enhancements, and the removal of all distortions associated with film deformation and sensor artifacts.

NGA shall provide any specific direction regarding any of the following:

- Radiometric Frame balancing
- Radiometric balancing with Adjacent Cells (volumes)
- Limits on Histogram stretching,

The Contractor shall examine all available and suitable source materials received as GFI. This process of examination but not necessarily is limited to: CI and associated support data. In the construction of the ECIB product, it is envisioned that the Contractor would identify and process the best available data to support production goal of maximizing ground coverage.

The most current imagery is used as the preferred source with layers of less recent imagery underneath. If there is a cloud, this area is cut out of the top layer exposing the next layer. If there is no anomaly in the next layer, this process stops. If an anomaly exists, then that area is cut out to expose the third layer. This continues until the anomaly is eliminated. If it can't, then the layer with the smallest anomaly is used.

2.3.3 Source Ingest

The Contractor shall load the imagery and support data onto the production system, perform a review, and establish a complete inventory of the imagery and support data. The imagery shall be inspected for missing scans, artifacts, etc.

3.0 GOVERNMENT-FURNISHED MATERIALS (GFI)

3.1 Source Harvesting

NGA will perform a high-level source feasibility to build the requirements lists of ECIB products. The contractor shall perform production level feasibility prior to starting production with minimal NGA participation. If insufficient sources are found, the Contractor shall notify NGA within 24 hours of the discovery, and NGA will provide revised requirements list with similar source mix swaps identified. The Contractor shall examine all available and suitable source materials and deliver them to their production environment. This process of examination shall include but not necessarily is limited to: CI and associated support data, and elevation source data.

The ECIB Report shall document anomalies existing in the final product.

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Appropriate caveat notes shall document anomalies. (See “*Insufficient imagery source*”).

3.2 Digital Imagery

Commercial Imagery (CI)

NGA will provide CI in NITF format as GFI on best available media. Commercial Imagery is UNCLASSIFIED.

Commercial Imagery Support Data

All CI support data available to NGA will be included as source.

National Technical Means Imagery

If required, NGA will provide the Contractor compressed digital imagery from NTM at full resolution. Generally, the coverage of an area will be approximately 60 nautical miles by 60 nautical miles (defined as a rectangle). The data will be at various ground sample distances (GSD).

Adjusted Metric Support Data AMSD (1)

NTM imagery will be accompanied by Adjusted Metric Support Data, AMSD (1) and delivered to the Contractor. AMSD (1) not meeting specifications shall be returned to NGA for replacement along with a description of the deficiency. The problem AMSD (1) shall be returned to NGA for problem analysis at the discretion of the COR. AMSD-related problems shall be reported to NGA using the Digital Source Trouble Report (DSTR).

3.2 Source Priority

Production shall use the most current and best available Commercial imagery as the Primary source.

The Contractor shall make every effort to replace clouds, gaps, or other image sensor anomalies with Primary imagery and the use of Alternate source. Alternate source refers to fill source of a less recent date but does not revert beyond previous edition’s individual frame currency.

Where scan/sensor burns exist within NTM used for CIB production, the alternate stereo mate or alternate source shall be utilized to minimize scan lines within the deliverable. Artifacts such as scan/sensor burns must be minimized utilizing Primary and Alternate sources.

For example, if there is a cloud, this area is cut out of the top layer exposing the next layer. If there is no anomaly in the next layer, this process stops. If an anomaly exists,

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then that area is cut out to expose the third layer if available. This continues until the anomaly is eliminated. If it cannot be eliminated then the layer with the smallest anomaly is used. CIB production situations that do not meet these requirements shall be brought to the CIB program manager's attention and product worked to the contractor's best judgment.

Artifacts that cannot be eradicated through this process shall be noted or in extreme circumstance communicated to NGA CIB program manager. Extreme circumstances include production situations that jeopardize product completion.

The ECIB Report (Attachment 1) shall document anomalies in final product. Appropriate caveat notes shall document anomalies. (Example: "Insufficient imagery source").

3.4 Insufficient imagery source

The Contractor shall notify the NGA COR within 24 hours of the discovery of GFI that is insufficient to produce the Task Order deliverables. Source issues shall be reported to the NGA COR using the Digital Source Trouble Report (DSTR). Image issue examples:

- Missing or unreadable images.

- Excessive line and sensor burns. No more than five defective scan lines in succession may be tolerated. Five or fewer defective scan lines shall be repaired by the contractor.

- Line shifts and duplicated lines may not occur on any imagery.

Other GFI issues shall be coordinated with the COR. Schedule modifications due to insufficient GFI must be coordinated with the COR, and approved by the Contract Officer.

NGA may require ECIB production despite discrepant imagery source. The COR shall notify the Contractor via e-mail to proceed with production. One of the following caveats shall be placed on the media and the artwork label to identify image source issues:

"Notice: This ECIB# cell was produced with the best available imagery at the date of production. Image anomalies exist." (# corresponds to current ECIB series)

The ECIB Report shall document any anomalies requiring the above caveat by giving an approximate coordinate and a concise description of the problem.

3.5 Holiday or Expurgated Volumes

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When so identified, the ECIB volume Id will contain the “Z” identified in the volume ID. The total product classification shall be provided by NGA in this guidance.

Additional guidance relating to the extents of the source limits (expurgation) shall be provided by NGA herein.

3.6 Digital Elevation Models (DEM)

Terraform, latest version, unless otherwise directed by NGA, is required production DEM for ECIB production.

If a DEM contains voids, a special void-filled DEM may be necessary. The Contractor shall notify NGA if a DEM is incomplete or inadequate.

The DEM used to produce each quarter-cell/cell shall be recorded in the ECIB Report.

If image anomalies occur due to deficient DEM quality, one of the following caveats shall be used:

“Notice: Image shear or duplication may be present within this ECIB# due to insufficient DEM.” (# corresponds to current ECIB series)

The ECIB Report submitted by the Contractor shall document any anomalies requiring the above caveat by giving an approximate coordinate and a concise description of the problem.

Licensing Information

NGA shall furnish upon request the exact licensing notation for ECIB commercial products. The licensing notation shall be included in the products NITF Controlled Extension Text tag.

Releasability Codes

NGA shall furnish the most current releasability code for inclusion in the ECIB product. Contractors and other producers should refrain from using the code in MIL-PRF-2411 whereby these may be obsolete.

4.0 REQUIREMENTS FOR ECIB PRODUCTION

4.1 Reporting

4.1.1 ECIB Report (Attachment 1)

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The ECIB Report, submitted by the Contractor for each Task Order, shall document anomalies, production issues, DEM used, and control source used for each quarter-cell/cell.

4.1.2 Monthly Status

Contractor shall provide to NGA, preferably in softcopy, a status update for the 0.5-meter, 1-meter, 2-meter, and 5-meter ECIB products by month. This status will include estimated delivery, source issues, discrepancies, and any issues that will potentially delay delivery.

All deliveries shall be delivered to NGA according to Delivery Schedule.

4.1.3 Accuracy Assessment Report

Contractor shall provide to NGA, in softcopy, a short report documenting their process at a high level, describing how the product was compared to the control source, and accompanied by a vector plot with the resulting overall accuracy.

Contractor will document production issues for each quarter cell/cell, and will be an Unclassified deliverable for each Task Order.

4.2 Geopositioning

The ECIB production Contractor is required to perform sufficient control of the commercial imagery to a known source per NGA's discretion. Preferred method of control is Absolute Orientation. Relative Orientation may be performed per NGA's approval.

The control source used to produce each quarter-cell/cell shall be recorded in the ECIB Report to be delivered to NGA along with the resulting Triangulation Report including residuals. If quarter-cell/cell was produced without underlying control, per NGA approval, the following caveat shall be used: "None Available".

4.2.1 Absolute Orientation

Preferred known source is AMSD(1) support data. In areas with underlying AMSD(1) Contractor shall control to AMSD(1) for all products.

4.2.2. Relative Orientation

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In areas with no underlying AMSD(1), commercial imagery may be controlled using a relative adjustment. The Contractor shall gain NGA's approval prior to performing Relative Orientation.

4.3 Imagery Import

NGA Shipment of Digital Imagery and Support Data to Contractor:

NGA will provide source imagery and support data as Government Furnished Items.

4.4 Source Ingest

The Contractor shall load the imagery and support data onto the production system, perform a review, and establish a complete inventory of the imagery and support data. The imagery shall be inspected for missing scans, artifacts, etc.

The Contractor shall examine all available and suitable source materials. This process of examination but not necessarily is limited to: CI and associated support data, TERRAFORM terrain data, ADRG/CADRG, neighboring ECIB products, and appropriate frame file history information.

4.5 Image Processing

Overlapping Rectangles: **N/A for this prototype.**

4.5.1 Partial Frames

Partial frames are possible, for example, if a frame overlaps the bounding rectangle. Partial frames are completed to the frame boundary, or to the extent of the image coverage, whichever is smaller.

Coverage between adjoining East/West areas shall include overlap to the extent of the frame or image coverage.

In a similar manner there shall be North/South overlap at the zone boundaries to the extent of the frame or image coverage.

The contractor shall adjust the pixels of imagery within a specified geographic region in order to balance radiometric differences from image to image and between frame cells.

Previously generated image frames adjoining a new cell, or group of cells, shall be brought into the radiometric balancing solution so that newly generated frame cells match older, existing data.

Unlike CIB production partial frame fill is not required to complete frame coverage. When coverage is insufficient, the contractor shall notify NGA that there is a coverage

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deficiency. This also includes coverage which is deemed unsuitable to include excessive cloud cover or image artifacts.

4.5.2 Seam Line Polygon / Areal Sequence Coverage Polygons (ACS)

Seam polygons are collected for the bounds of any images or portion of images used to generate the ECIB product. When supplemental imagery is used to “fill” adverse areas or other image defects on the primary image, the contractor should use techniques which would minimize the number of these small “fill” ACS polygons when numerous.

4.6 ECIB Structure

The ECIB structure and format shall be in accordance with MIL-PRF-32466, *DoD Military Specification, System Specification for Enhanced Controlled Image Base® (ECIB®)*, 12 Dec 2017.

The ECIB product media shall contain the following components:

- a) TOC.xml file
- b) Folder named with the SW_Identifier Id containing all the product frames files
- c) SHAPEFILE folder containing the two shapefile sets for frames and sources.

The exchange medium for ECIB is DVD.

4.6.1 Overviews

In accordance with MIL-PRF-32466A Overviews (Image and Graphic) are no longer required. This is a change to MIL-PRF-32466.

4.6.2 TOC.xml file

The ECIB TOC.xml file must contain the correct classification, releasability, control caveats, and downgrading information. There are two locations in the TOC.xml where the Security NODE is present.

Product Series NODE: Within the TOC.xml is the Security XML node should contain all required security and handling caveats. This node exists in one location.

Frame NODE: Within the TOC.xml is the Security XML node should contain all required security and handling caveats. This node is present for each frame node entry.

When the ECIB product contains multiple cells the product_item_id in the Product Series Node should be identified as follows:

```
<product_item_id>00{N,S}000[E,W]I[A-L]</product_item_id>
```

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4.6.2.1 Entry Instructions for Selected Metadata Fields (ECIB)

TOC.xml Fields:

The TOC.xml contains security blocks in the following places:

- a) The File Header Node
- b) Frame File node

The XSD for the Security Node block is as follows:

```
<xs:complexType name="T_security">
  <xs:sequence>
    <xs:element ref="classification"/>
    <xs:element ref="classifier_country_code"/>
    <xs:element ref="release_marking"/>
    <xs:element ref="control_handling"/>
    <xs:element ref="downgrade_instructions" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

The Element attribution statements are as follows

```
<xs:simpleType name="T_classification">
  <xs:restriction base="xs:string">
    <xs:enumeration value="U"/>
    <xs:enumeration value="S"/>
    <xs:enumeration value="T"/>
    <xs:enumeration value="C"/>
    <xs:enumeration value="R"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="classifier_country_code" type="xs:string"/>
<xs:element name="control_handling" type="xs:string"/>
<xs:element name="downgrade_instructions" type="xs:string"/>
```

Guidance:

All four tags in the security block must be present in the order shown above. The tags must be present even if there is no data in the tag. If no data is present, then use <release_marking></release_marking> OR </release_marking>.

The security element is present in the File Header and EACH frame files node one in the TOC.xml file

The Classification element must contain one of the enumeration types identified above.

The remaining tags are free text and must contain the appropriate code or data within the tag.

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Example:

In the File Header node

```
<security>  
  <classification>U</classification>  
  <classifier_country_code>US</classifier_country_code>  
  <release_marking>DS</release_marking>  
  <control_handling>10 USC 455</control_handling>  
</security>
```

In the Frame node:

```
<security>  
  <classification>U</classification>  
  <classifier_country_code>US</classifier_country_code>  
  <release_marking>DS</release_marking>  
  <control_handling>10 USC 455</control_handling>  
</security>
```

4.6.3 NITF FrameFiles

The NITF frame files *shall* contain the correct Classification, releasability, control handling data in the NITF frames files structure, In the NITF this includes BOTH the Frame File Header AND the Image SubSection Header classification blocks. Both section must have the correct security and information.

4.6.3.1 Frame Fields:

NITF File Header (Frame):

```
OSTAID: "NGA"  
ONAME: <Producer ID>  
FSCLAS: "U"  
FSCODE: "DS"  
FSCTLH: "Limited Distribution"  
FSCAUT: "10 USC 455"  
FSDWNG: "999998"  
FSDEVT: "CIB01 Declassification Memo 22112002"
```

NITF Image File Subheader (Frame):

```
IID: "CIB"  
ISCLAS: "U"  
ISCODE: "DS"  
ISCTLH: "Limited Distribution"  
ISCAUT: "10 USC 455"  
ISDWNG: "999998"  
ISDEVT: "CIB01 Declassification Memo 22112002"
```

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Frame file header section:
Security Classification: "U"
Security Markings: "DS"

4.6.4 Shapefiles

There are specific shapefile naming instructions specifically relating to the source shape file set. Consult MIL-PRF-32466A Appendix C.2.3.2

4.7 NITF Guidance

NGA shall identify which or both NITF DIGEST Extension tags shall be present in the ECIB product. Either both or one of the following:

- SNSPSB
- BNDPLB

are required in the ECIB product. Consult MIL-PRF-32466A for details.

Note: When the SNSPSB extension is selected and if the set of sensor parameters applies to the entire image Segment (necessary when the GEOPS extension is not present), then the NUM_BPn field contains **00**. Refer to TABLE C-V111 SNSPSB Data Extension.

4.8 Accuracy Assessment

The horizontal accuracy requirement for ECIB® databases is 25 meters, or better, Circular Error 90% (CE90).

For ECIB generated from commercial imagery, the contractor shall generate diagnostic points from the NGA provided control (DPPDB/NTM/AMDS(1)) and shall derive the same points from the final ECIB product. These points shall be used to assess the final accuracy.

The contractor shall select 5 well-distributed points within the cell and evaluate each product. The computed absolute and relative accuracies shall be entered into the required Accuracy Assessment Report (see 4.1.3) associated with each delivered ECIB data set.

The Absolute accuracy values contained in the Unclassified ECIB will be reported between 7m and 23m.

The Relative accuracy value will always be reported at zero (0).

NTM Guidance (Absolute Accuracy)

In ALL cases:

GSD: use the GSD of the ECIB product, not the source GSD
Abs_HorAcc : use the accuracy of the ECIB product, not the source accuracy

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Rel_HorAcc: this is always zeroed out

If the product is marked / labeled classified (and it is technically possible for us to create a classified ECIB):

Sensor_Typ: This is an open unstructured field. They could use “NTM”

If the product has some NTM, but is marked / labeled unclassified (much CIB was made this way):

Sensor_Typ: This is an open unstructured field. Contractors should use “All Source”.

4.9 Volume Identification

For ECIB the Media ID is same as the CIB Volume ID. The ECIB Media ID is 18 characters in length, The Media ID is comprised in the following manner

Series + Product_Item_Id + Edition

The Series is comprised as follows: **ECIB** + [U, S, Z]

The Product_Item_Id is 11 characters comprised in the following manner

SW_Identifier [xx{N,S}xxx[E,W]IIC]

All scales EXCEPT 0.5 meter: nn{N, S]nnn[E,W]IIX]

When scale is 0.5 meter: nn{N, S]nnn[E,W]II[A,B,C,D]

The EDITION is always 3 characters in the form “001”

Examples:

All scales Except 0.5: ECIBU33N045EIBX001

When scale is 0.5m: ECIBU33N045EIED001, ECIBU33N045EIKD001

Consult MIL-PRF-32466A for further details on the Media ID.

5.0 DELIVERABLES

5.1 ECIB Deliverables

ECIB DVDs will be labeled with the proper security headers. No softcopy artwork is required for this prototype.

ECIB created from Commercial Imagery must contain the appropriate licensing information on the artwork.

Valid license note: “Contains imagery ©DigitalGlobe, NextView License”

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Valid security header:

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Distribution authorized to DoD, IAW 10 U.S.C. 130 & 455. Release authorized to U.S. DoD contractors IAW 48 C.F.R. 252.245-7000. Refer other requests to Headquarters, NGA, ATTN: Release Officer, Mail Stop S82-OIAD, 7500 Geoint Drive, Springfield VA 22150-7500
Destroy IAW DoD Manual 5200.01.

Removal of this caveat is prohibited.

The contractor shall generate and deliver to NGA the following in accordance with the ECIB specification (MIL-PRF-32466):

Unclassified//Limited Distribution: DVD (two copies) containing ECIB data.

Secret: Softcopy (preferred) or Hardcopy of the Accuracy Assessment Report.

The ECIB control handling instructions shall be populated in both the TOC.xml and in the specific frame files if so directed by NGA.

Special Instructions: This section supersedes MIL-PRF-32466

This prototype may determine that the 0.5M pan-sharpened product may be too large to be written to DVD. For this product only, a 20:1 compression ratio may be needed.

For the panchromatic product, there have been issues with a 15:1 compression ratio. It is permissible to use 10:1 compression ratio if it improves image quality. A DVD should be large enough.

5.2 Product Compression

A DVD should be large enough to hold the data.

In the case of 0.5 meter, if the product is too large to be contained on the media the product should be broken in to Quarter cell products and the Data Extent code (A,B,C,D) used to identify each quarter cell as defined in MIL-PRF-32466A (Appendix C)

When the “Z” flag is used to denote a holiday or expurgated product the overall classification of the product (volume) shall be identified in this Product Specific Guidance.

5.3 Licensing

All products using commercial imagery should contain licensing information in the NITF File Header Text Segment. NGA shall supply the appropriate licensing caveat.

The NITF File Header Text Segment shall contain the following licensing statement:

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NEXTVIEW IMAGERY END USER LICENSE AGREEMENT

1. Introduction. This End User License Agreement ("EULA") is between DigitalGlobe, Inc., a Delaware Corporation ("DigitalGlobe" or "Seller") and National Geospatial- Intelligence Agency ("NGA"), the purchaser of this EULA, which governs the use of the data products or documentation ("Products") accompanying this EULA in accordance with Contract NMA 301-03-3-0001 (the "Contract"). 2. Applicability. This license applies to imagery and products licensed under the Contract, including data downlinked to domestic and foreign ground stations. 3. License Granted and Permitted Uses. a. General Terms 1. This clause applies to all unprocessed sensor data and requirements-compliant processed imagery, imagery services, imagery-derived products and imagery support data licensed under this Contract. No other clauses related to intellectual property or data rights of any sort shall have any effect related to the unprocessed sensor data and requirements-compliant processed imagery, imagery services, imagery-derived products and imagery support data delivered under this Contract. 2. All license rights for use of the unprocessed sensor data and requirements-compliant processed imagery, imagery services, imagery-derived products and imagery support data provided to the U.S. Government purchased under this NGA contract are in perpetuity. 3. Licensed users may generate an unlimited number of hardcopies and softcopies of the unprocessed sensor data and requirements-compliant processed imagery, imagery services, imagery-derived products and imagery support data for their use. 4. (i) Licensed users may generate any derived product from the licensed unprocessed sensor data; and requirements-compliant processed imagery, imagery services, imagery-derived products and imagery support data. (ii) Unprocessed sensor data and requirements-compliant processed imagery, imagery services, imagery-derived products and imagery support data licensed under this NGA contract have no restrictions on use and distribution, but shall contain the copyright markings. b. Licensed Users 1. The imagery may be used by the U.S. Government (including, all branches, departments, agencies, and offices). 2. The U.S. Government may provide the imagery to the following organizations: State Governments Local Governments Foreign Governments and inter-governmental organizations NGO's and other non-profit organizations 3. In consideration of the flexibility afforded to the U.S. Government by allowing unprocessed sensor data and requirements-compliant processed imagery, imagery services, imagery-derived products and imagery support data to be shared, the United States Government shall use its reasonable best efforts to minimize the effects on commercial sales. Acquisition and dissemination of imagery and imagery products collected within the United States shall be restricted in accordance with law and regulation. DigitalGlobe, Inc. NextView EULA_5749 Rev 1.0 08/10/05

Security Classification Markings/Commercial Licensing Markings

All deliverables shall be marked with the appropriate security classification and releasability information. Product releasability codes will match the NGA Gateway releasability code markings.

General Markings

The accuracy reports and the DVDs shall, at a minimum, be marked with: the Contractor name, product ID, date produced, security classification, release caveats, and handling instructions.

6.0 NGA Quality Check

6.1 NGA Receipt of Deliverable

Upon receipt of the deliverable, NGA will review the package for completeness. The contractor will be informed if any items are damaged or missing.

6.2 NGA Quality Assessment

All ECIB delivered by the Contractor to NGA shall comply with the requirements stated in this document. Upon receipt of the ECIB, NGA will perform a quality check of the associated deliverables. NGA's quality review will be no more than 45 calendar days in duration from date that the ECIB is received.

NGA will notify the Contractor of the results of the quality check. If the ECIB does not pass the quality check, NGA will notify the Contractor and identify all known problems. The Contractor shall perform all necessary steps to rectify the problem within the contract delivery schedule.

7.0 QUALITY ASSURANCE

7.1 ISO 9000 Quality Management Systems Standards

ISO-9000 standards compliance, or equivalent, for quality management systems will be required of the contractor.

7.2 Quality Assessment

The contractor shall perform quality control for each product in accordance with the Quality Control Plan. The contractor shall provide Quality Assessment Reports to NGA, which will provide evidence that in-process quality control is maintained in the production processes.

7.3 Technical Exchange Meetings

NGA and the contractor shall hold Technical Exchange Meetings as needed.

8.0 CERTIFICATION

NITF certification is not required for ECIB prototype.

9.0 SHIPPING INSTRUCTIONS

Deliverables shall be shipped to the NGA COR. All deliverables shall be shipped to NGA at Contractor's expense, and marked to reflect the appropriate classification level.

Attachment 1 (ECIB Report Sample)

Cell ID	Quadrant (if applicable)	DEM	Discrepant? (Y/N)	Longitude	Latitude	Description	Caveat Used	Controlled? (Y/N)	Control Source ID (Send resulting Triangulation Residuals report)	Software & Version Used