

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	82
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 08-Aug-2012	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY NAVAL AIR SYSTEMS COMMAND AIR-2.2.1.2 BLDG 2272 SUITE 453 47123 BUSE ROAD UNIT IPT PATUXENT RIVER MD 20670-1547	CODE N00019	7. ADMINISTERED BY (If other than item 6)  <b>See Item 6</b>		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. N00019-12-R-0035	
			X	9B. DATED (SEE ITEM 11) 10-Jul-2012	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE			FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  The purpose of this amendment is to: 1) Amend Section A-Classified Mailing Information. 2) Amend 5252.247-9509 (Section D) and Section F shipping information. 3) Amend 5252.246-9512 (Section E) to update Inspection/Acceptance authority. 4) Delete 5252.232-9513 and replace with 252.232-7006 (Section G). 5) Amend Section J Exhibit A CDRLs, Attachment 1SOW, and Attachment 7 GFI List. 6) Amend 5252.215-9504 (Section K) and 7) Amend Section L.  All changes are highlighted in red font for ease of review.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR  _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED  08-Aug-2012	

## SECTION SF 30 BLOCK 14 CONTINUATION PAGE

**SUMMARY OF CHANGES**

## SECTION A - SOLICITATION/CONTRACT FORM

The following have been modified:

**CONTACT INFORMATION****Points of Contact for ALL Communications:**

Kyle Richmond, AIR 2.2.1.2  
Procurement Contracting Officer  
[Kyle.richmond@navy.mil](mailto:Kyle.richmond@navy.mil)  
(301) 757-5023

Or

Kara Briscoe, AIR 2.2.1.2  
Contract Specialist  
[Kara.briscoe@navy.mil](mailto:Kara.briscoe@navy.mil)  
(301) 757-7086

**Classified Mailing Information:**

Classified material, **up to the collateral secret level**, submitted to NAVAIR via the United States Postal Service or through an overnight express carrier must be addressed as follows:

Outer Wrap:       COMMANDER  
                      ATTN CONTRACTS AIR 22 DIVISION  
                      NAVAL AIR SYSTEMS COMMAND  
                      47123 BUSE ROAD BLDG 2272 STE 453  
                      PATUXENT RIVER MD 20670

Inner Wrap:        Commander  
                      ATTN Kyle Richmond, AIR 2.2.1.2  
                      Solicitation N00019-12-R-0035  
                      Naval Air Systems Command  
                      47123 Buse Road Bldg 2272, Ste 453  
                      Patuxent River MD 20670

**SECTION D - PACKAGING AND MARKING**

The following have been modified:

**5252.247-9509 PRESERVATION, PACKAGING, PACKING AND MARKING (NAVAIR)(JUL 1998)**

(a) Preservation, packaging and packing shall conform to prevailing industry standards for the type of commodity purchased under this contract.

(b) All packages will be clearly marked with applicable contract number/delivery order number, and will contain appropriate packing slip. All deliveries will be marked for and/or consigned as follows:

**Classified shipping address:****Outer Wrapper:**

Commander, NAWCWD  
Code 685300E/EDAC  
575 I Ave. Suite 1  
Point Mugu, CA 93042-5049

**Inner Wrapper:**

Commander, NAWCWD  
Attn: Robert Massey, 41230EE (989-3706, NGJ/EA-18G)  
Code 685300E/EDAC  
575 I Ave. Suite 1  
Point Mugu, CA 93042-5049

**Unclassified shipping address:**

Commander  
Naval Air Weapons Center-Weapons Division  
Bldg 3008, Rm 135, EA-18G Lab  
Attn: Robert Massey, Code 41230EE  
Pt Mugu, CA 93042-5049  
DoDAAC: N3519B

(c) In the event of any discrepancy in material shipped (overage, technical rejection, damage), the contractor shall, immediately upon request of the Contracting Officer, furnish disposition instructions. Normally, such disposition instruction shall be a properly completed Commercial Bill of Lading, which includes, but is not limited to, the mode of shipment, routing, special handling, and so forth.

(d) If the contractor is required to install equipment upon delivery, then the contractor shall inform the Government of the date of shipment from the contractor's facilities and the anticipated date of arrival at the site. This report shall be made no later than the actual date that the shipment is made from the contractor's facilities. The report may be made by facsimile or e-mail, to the point of contact listed in Section G. All transportation, rigging, drayage, packing, unpacking, and handling necessary to accomplish the installation shall be the responsibility of the contractor.

## SECTION E - INSPECTION AND ACCEPTANCE

The following have been modified:

### **5252.246-9512 INSPECTION AND ACCEPTANCE (NAVAIR) (OCT 2005)**

(a) Inspection and acceptance of the supplies or services to be furnished hereunder shall be performed by **NAVAIR - AIR 4.5.4 (DoDAAC N00019) or NAWCWD- Code 41230EE (DoDAAC N3519B).**

(b) Acceptance of all Contract Line Items/Sub Line Items (CLINs/SLINs) shall be made by signature of the accepting authority on a DD 250 submitted through the WAWF system. Acceptance will only occur when the accepting authority is sure that inspections performed demonstrate compliance with contract requirements.

## SECTION F - DELIVERIES OR PERFORMANCE

The following have been modified:

**Item 0001:** The Contractor shall perform the efforts required by the Attachment (1) "Next Generation Jammer Technology Development Statement of Work" and Attachment (2) "Next Generation Jammer System Performance Specification PMA234-14710" for a period of twenty-two (22) months from contract award.

**Item 0002:** Delivery of the eight (8) NGJ Pod Message Simulators (to include hardware and software) shall occur sixty (60) days prior to Preliminary Design Review (PDR). Delivery terms shall be F.o.B Destination to the following address:

**Classified shipping address:**

**Outer Wrapper:**

Commander, NAWCWD  
Code 685300E/EDAC  
575 I Ave. Suite 1  
Point Mugu, CA 93042-5049

**Inner Wrapper:**

Commander, NAWCWD  
Attn: Robert Massey, 41230EE (989-3706, NGJ/EA-18G)  
Code 685300E/EDAC  
575 I Ave. Suite 1  
Point Mugu, CA 93042-5049

**Unclassified shipping address:**

Commander  
Naval Air Weapons Center-Weapons Division  
Bldg 3008, Rm 135, EA-18G Lab  
Attn: Robert Massey, Code 41230EE  
Pt Mugu, CA 93042-5049  
DoDAAC: N3519B

**Item 0003:** Delivery of technical, software, financial, and administrative data required by a CDRL shall be made in accordance with the applicable DD Form 1423. Delivery of DAL items listed in Appendix D of the Attachment (1) "Next Generation Jammer Technology Development Statement of Work" shall be made to the Government Team SharePoint VWE/CDE. Delivery terms for all data shall be F.o.B Destination, **DoDAAC N00019**.

**Item 0004:** The Contractor shall travel as required during the period of performance of this contract.

**Item 0005:** Not applicable.

**Option Items 0007 and 0008:** Not applicable.

## SECTION G - CONTRACT ADMINISTRATION DATA

The following have been added by full text:

### **252.232-7006 WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS (JUN 2012)**

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

"Department of Defense Activity Address Code (DoDAAC)" is a six position code that uniquely identifies a unit, activity, or organization.

"Document type" means the type of payment request or receiving report available for creation in Wide Area WorkFlow (WAWF).

"Local processing office (LPO)" is the office responsible for payment certification when payment certification is done external to the entitlement system.

(b) *Electronic invoicing.* The WAWF system is the method to electronically process vendor payment requests and receiving reports, as authorized by DFARS 252.232-7003, Electronic Submission of Payment Requests and Receiving Reports.

(c) *WAWF access.* To access WAWF, the Contractor shall--

(1) Have a designated electronic business point of contact in the Central Contractor Registration at <https://www.acquisition.gov>; and

(2) Be registered to use WAWF at <https://wawf.eb.mil/> following the step-by-step procedures for self-registration available at this Web site.

(d) *WAWF training.* The Contractor should follow the training instructions of the WAWF Web-Based Training Course and use the Practice Training Site before submitting payment requests through WAWF. Both can be accessed by selecting the "Web Based Training" link on the WAWF home page at <https://wawf.eb.mil/>.

(e) *WAWF methods of document submission.* Document submissions may be via Web entry, Electronic Data Interchange, or File Transfer Protocol.

(f) *WAWF payment instructions.* The Contractor must use the following information when submitting payment requests and receiving reports in WAWF for this contract/order:

(1) *Document type.* The Contractor shall use the following document type(s).

\_\_\_\_\_ To be filled in at contract award \_\_\_\_\_

(Contracting Officer: Insert applicable document type(s). Note: If a "Combo" document type is identified but not supportable by the Contractor's business systems, an "Invoice" (stand-alone) and "Receiving Report" (stand-alone) document type may be used instead.)

(2) *Inspection/acceptance location.* The Contractor shall select the following inspection/acceptance location(s) in WAWF, as specified by the contracting officer.

\_\_\_\_\_ To be filled in at contract award \_\_\_\_\_

(Contracting Officer: Insert inspection and acceptance locations or "Not applicable.")

(3) *Document routing.* The Contractor shall use the information in the Routing Data Table below only to fill in applicable fields in WAWF when creating payment requests and receiving reports in the system.

Routing Data Table\*

Field Name in WAWF Data to be entered in WAWF: To be filled in at contract award

Pay Official DoDAAC: \_\_\_\_\_

Issue By DoDAAC: \_\_\_\_\_

Admin DoDAAC: \_\_\_\_\_

Inspect By DoDAAC: \_\_\_\_\_

Ship To Code: \_\_\_\_\_

Ship From Code: \_\_\_\_\_

Mark For Code: \_\_\_\_\_

Service Approver (DoDAAC): \_\_\_\_\_

Service Acceptor (DoDAAC): \_\_\_\_\_

Accept at Other DoDAAC: \_\_\_\_\_

LPO DoDAAC: \_\_\_\_\_

DCAA Auditor DoDAAC: \_\_\_\_\_

Other DoDAAC(s): \_\_\_\_\_

(\*Contracting Officer: Insert applicable DoDAAC information or "See schedule" if multiple ship to/acceptance locations apply, or "Not applicable.")

(4) *Payment request and supporting documentation.* The Contractor shall ensure a payment request includes appropriate contract line item and subline item descriptions of the work performed or supplies delivered, unit price/cost per unit, fee (if applicable), and all relevant back-up documentation, as defined in DFARS Appendix F, (e.g. timesheets) in support of each payment request.

(5) *WAWF email notifications.* The Contractor shall enter the email address identified below in the "Send Additional Email Notifications" field of WAWF once a document is submitted in the system.

\_\_\_\_\_ To be filled in at contract award \_\_\_\_\_

(Contracting Officer: Insert applicable email addresses or "Not applicable.")

(g) *WAWF point of contact.* (1) The Contractor may obtain clarification regarding invoicing in WAWF from the following contracting activity's WAWF point of contact.

\_\_\_\_\_ To be filled in at contract award \_\_\_\_\_

(Contracting Officer: Insert applicable information or "Not applicable.")

(2) For technical WAWF help, contact the WAWF helpdesk at 866-618-5988.

The following have been deleted:

## SECTION J - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACHMENTS

The following have been modified:

**NOTE:** This contract includes information that has either been designated as “Distribution D” and is only releasable to current and approved Department of Defense (DoD) Contractors, or is sensitive to general release. Under these designations, access to the NGJ TD attachments marked with an asterisk (\*) are being controlled.

DOCUMENT TYPE	DESCRIPTION	DATE
Exhibit A	Next Generation Jammer Technology Development DD1423 Contract Data Requirements List (CDRL) v2.0	6/26/2012
*Attachment (1)	Next Generation Jammer Technology Development Phase Statement Of Work v2.0	8/06/2012
*Attachment (2)	Next Generation Jammer System Performance Specification (CLASSIFIED) Version 4.1	6/05/2012
Attachment (3)	Next Generation Jammer DD 254	6/19/2012
Attachment (4)	Next Generation Jammer Subcontracting Plan (to be attached at time of award)	TBD
Attachment (5)	Next Generation Jammer Data Rights Assertions (to be attached at time of award)	TBD
Attachment (6)	Next Generation Jammer Cost and Software Data Reporting Plan	5/3/2012
*Attachment (7)	Next Generation Jammer Government Furnished Information (GFI) List v2.0	8/06/2012
Attachment (8)	Next Generation Jammer Integrated Master Plan (to be attached at time of award)	TBD
Attachment (9)	Next Generation Jammer Subcontract Management Plan (to be attached at time of award)	TBD
*Attachment (10)	Next Generation Jammer Open Systems Management Plan (to be attached at time of award)	TBD
Attachment (11)	Next Generation Jammer Scheduled Government-Furnished Property (to be attached at time of award)	TBD
Attachment (12)	Next Generation Jammer Requisitioned Government-Furnished Property (to be attached at time of award)	TBD

## SECTION K - REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS

The following have been modified:

**5252.215-9504 WRITTEN RELEASE FOR USE OF NON-GOVERNMENT PERSONNEL IN EVALUATION OF PROPOSALS (NAVAIR) (OCT 2005)**

(a) Offerors are hereby notified that non-government participants will have access to the offerors’ proposals. The non-government participants are employees of [Johns Hopkins University Applied Physics Laboratory \(JHU/APL\)](#) and [David P. Maunder Consulting, a subcontractor to JHU/APL](#) under contract to the Government. They will serve as technical advisors to the Government and will be authorized access to only those portions of the proposal data and discussions that are necessary to enable them to provide specific technical advice on specialized matters or on particular problems. All non-government personnel have signed certificates of non-disclosure and financial interest, or their equivalent documents.

(b) By signing below the offeror provides written release to the Government for the disclosure of proprietary information to the non-government participants in the source selection.

Signature of Company Official: \_\_\_\_\_

Print Name: \_\_\_\_\_

Print Title: \_\_\_\_\_

(c) If the contractor is not willing to provide this consent, written notification to the Procuring Contracting Officer (PCO) is required no later than 30 days prior to the proposal delivery date.

## SECTION L - INSTRUCTIONS, CONDITIONS AND NOTICES TO BIDDERS

The following have been modified:

### L-1 CONTENT OF PROPOSALS (SUPPLIES OR SERVICES) (**AUGUST 2012**)

#### PART A GENERAL INSTRUCTIONS

Offerors are required to submit sufficient information concerning all factors to enable Government personnel to fully ascertain capabilities of the Offeror to perform the requirements. The proposal must be sufficient in detail and scope to permit evaluation and provide the evaluators a clear understanding of the Offeror's approach, expertise, experience and capability as required by the solicitation. All proposals must clearly and convincingly demonstrate that the Offeror has a thorough understanding of the requirements and associated risks and is able, willing and competent to devote the resources necessary to meet the requirements and has valid and practical solutions for all requirements and potential risk areas. Respond to all requirements of the solicitation. Do not alter or rearrange the solicitation. The burden of proof for all substantiation within the proposal rests with the Offeror. The Offerors are advised that the Government may incorporate into the final contract any part of the Offeror's proposal deemed beneficial to the Government. With the exception of the Cost Volume 5, Contract Administration Volume 6, and the optional Streamlined Alternate Proposal Addendum Book B Volume 7B, no cost should appear in any other volume. **Alternate proposals are not acceptable, with the exception of any proposed streamlined alternate approaches proposed in accordance with Volume 7, Streamlined Alternate Proposal Addendum.**

In presenting material in the proposal, the Offeror is advised that quality of information is more important than quantity. Clarity, brevity, and logical organization should be emphasized during proposal preparation. It is the responsibility of the Offeror to present enough information to allow the various work efforts, support, and management approaches, as well as cost, to be meaningfully evaluated without discussions. Statements that the prospective Offeror understands, can or will comply with the specifications, and paraphrasing the requirements or parts thereof are considered inadequate and may render a rating of unsatisfactory.

The Offeror must include any data necessary to illustrate the adequacy of the various assumptions, approaches, and solutions to problems. There is no need to repeat information in more than one volume if an overlap exists; the detailed information must be included in the most

logical place and summarized and referenced in other areas. Unnecessarily elaborate brochures or other presentation beyond that sufficient to present a complete and effective proposal is neither necessary nor desired.

Offerors are expected to comply with all requirements of the RFP. The Government advises Offerors that taking exception to or deviating from any term or condition of the RFP may make an offer unacceptable, and the Offeror ineligible for award. The Government may consider any exception or deviation to any term or condition of the RFP that is not expressly authorized by the RFP to be a deficiency, as defined in FAR 15.001. Additionally, any approach that relies on Government resources or operations (e.g. Government Furnished Property, Government Furnished Equipment, Government personnel/actions, Government Concept of Operation changes, etc) in order to comply with a requirement, unless otherwise allowed, may be considered non-compliant.

Throughout these instructions, “Principal Subcontractors” are defined as a subcontractor who provides at least 10% of the proposed total cost (excluding the Offeror’s profit/fee), for the contract. Team Members are the entities that make up a joint venture/single legal entity (JV/SLE) or any other partnership or teaming arrangement that is formed for the purpose of responding to this solicitation. Critical Subcontractors are entities of the Offeror that perform a critical function in the performance of the resulting contract, whether it is technical or financial, and/or have important roles in any high or medium risk areas identified in the Offeror’s proposal.

## **1.0 PROPOSAL FORMAT**

Proposals must be formatted using a Times New Roman 12 pt normal font (no reduction permitted) with the exception of Cost Attachments which may be submitted in 8 pt font as in the template, single-spaced with 1-inch margins all around, and formatted for/printed on standard 8.5 x 11 inch paper. All pages should be numbered with section and page numbers. When foldout pages are used they must not exceed 11 x 17 inches and will be counted as 1 page. Drawings may be provided separately and may be any size but should be folded to approximately 8.5 x 11 inch standard size and will count as 1 page. Graphs and tables shall be presented in no smaller than a 10 pt font. Graphs should contain a grid, which allows values to be read directly from the graph to the same accuracy that a 10 x 10 to the ½ inch grid provides. Graphic resolution should be consistent with the purpose of the data presented. Each volume or book shall be provided separately in a 3-ring binder. The binders shall be of an appropriate thickness for the number of pages it contains (e.g., a 30-page book shall not be placed in a 2-inch binder).

Oral Presentation charts should be formatted so they are legible to personnel in a conference room with approximately 50 seats.

The subjects listed in the “Proposal Structure” table break out the proposal information into an oral portion and a written portion, resulting in numbering within the written portion of the proposal that is not in chronological order (e.g., 2.2.1, 2.2.2B, & 2.2.4). The Offeror may leave place holders to maintain and automatically generated numbering scheme by software products (e.g., in the written proposal the Offeror may place a note under the 2.2.2 A heading that the

information is covered in the Oral Presentation portion of the proposal vice the written portion of the proposal and vice versa).

## **2.1 Electronic Submission of Proposal**

The Offeror will provide two complete copies of the proposal to the PCO as electronic files fully compatible with Microsoft Office 2007 and the latest Adobe Acrobat reader on a CD-ROM. This section is intended to provide information to the Offeror on the electronic format and application software to be used for submitting proposals. Use of the software and procedures described in this section will reduce the amount of time and effort needed to receive and install proposals onto the electronic evaluation system, and will help ensure that the proposals received are suitable for reading electronically.

### **2.1.1 Electronic Proposal Media**

The Offeror shall submit all electronic volumes of its proposal on CD-ROM(s) compatible with the operating system and applications defined in paragraph 2.1.2 below. The Offeror shall put as much proposal material as possible on each CD-ROM except for the Cost Volume 5, Small Business Plan, **and any classified portions of the proposal**. The Cost Volume 5, Small Business Plan **and any classified portions of the proposal**, shall be delivered on separate CD-ROM(s). The Offeror shall submit two copies of the electronic portions of its proposal. One set of CD-ROM disks shall be marked "Master" and another shall be marked "Back-Up." Both sets of CD-ROM disks shall be clearly marked with the Offeror's name and address, the point of contact's name and phone number, and proposal volumes contained therein. The Offeror shall be responsible for ensuring electronic proposals are virus free in accordance with paragraph 2.1.4.

### **2.1.2 Operating System and Applications**

The proposals will be accessed via NMCI Microsoft Windows XP Server network. Two identical proposals shall be submitted in separate, paperless versions. One version will be submitted in Adobe Portable Document Format (.pdf), and one version in Microsoft Office 2007. The .pdf version should meet page count suggestions when read by Adobe Acrobat Reader 8.0. The .pdf document must be fully searchable in Adobe. The Offeror shall submit the proposal in a second format with the identical content of the .pdf version using Microsoft Office 2007 applications for Windows. The Microsoft Office 2007 applications version may vary slightly from the page suggestions above as a result of print drivers or formatting. However, the Offeror shall be responsible for ensuring that the .pdf and Microsoft Office 2007 applications versions contain the identical information. The appropriate Microsoft Applications are Microsoft Word, Microsoft Excel, Microsoft PowerPoint, for Office 2007 and Microsoft Project 2007. Use of other application software for submission of proposals is prohibited except where specific instructions for non-Office 2007 Applications are provided. However, other applications (e.g., non-Microsoft drawing programs) can be used in proposal preparation as long as the electronic product can still be viewed by the Microsoft application as an object embedded within the document (i.e., Word, Excel, PowerPoint or Project).

### 2.1.3 Hyperlinks

The Offeror may use hyperlinks within and among proposal volumes. However, there shall be no links from any other volume into the Cost Volume 5. The Offeror may create links from the Cost Volume 5 into other volumes.

### 2.1.4 Virus Free Electronic Submission

The Offeror shall be responsible for ensuring that its electronic proposal is virus free. The Offeror shall certify in its proposal cover letter that all electronic proposal information has been checked for viruses, and what software, version and virus definitions were used to check the data. The Offeror shall also ensure and certify that any subsequent proposal information (e.g., evaluation notices, and Final Proposal Revisions) is also virus free.

### 2.1.5 Multimedia

**With the exception of Volume 2A**, the Offeror shall not embed sound or video (e.g., MPEG) files into the proposal documents.

### 2.1.6 Graphics

Large files require greater computer system resources and are discouraged. The Offeror is encouraged to:

- Simplify the color palette used in creating figures.

- Minimize size of graphics files

- Avoid scanned images.

## 3.0 PROPOSAL CONTENT AND VOLUMES

The Offeror must present its proposal information in a manner that facilitates a one for one comparison between the information presented and this Proposal Instruction. Proposal information must be structured such that its paragraph number/letter is identical to the Proposal Instructions paragraph number to which it is responding, although the Offeror may add lower tier sub paragraphs. The Offeror must provide reasons it will not provide information for a particular paragraph. The proposal information instructions are structured by paragraph numbers where first, second, third and fourth parts correspond to the volume, book, section, and element, etc., in the Offeror's proposal.

**The sections identified as "classified" in "Table A.3.0 Proposal Structure", along with any classified information in other proposal areas, must be separated from the unclassified Volume and contained within the related classified Volume. A reference within the unclassified Volume should indicate additional classified information is contained within the related classified Volume. For example, a placeholder within unclassified Volume 2B should point to Section 2.1.2.1 in classified Volume 2B.**

Each written volume of the proposal shall be submitted as one original and additional copies as specified in the table below. Submission of all volumes of the original proposal to the address provided in section 4.0 will determine timeliness of receipt. Suggested page counts for each volume, if any, are also specified in the table below as follows (title and table of contents pages do not count towards page suggestions):

Information submitted as an Annex to the proposal includes manuals, specifications, plans, procedures, and policies that exist as an official document of the company or facility, as well as other information requested in Section B Specific Instructions. Annexes do not have suggested page counts and do not count towards the suggested page count. The authorized Annexes are summarized in the table below.

Table A.3.0 Proposal Structure

Volume Number	Volume Title	Recommended Charts/ page count	Copies Required
1	EXECUTIVE SUMMARY	50	1 Original/4 Copies
2	TECHNICAL	-	-
2A	ORAL PRESENTATION	235	1 Original /4 Copies
	<b>2.1 Design Approach</b>		
	<b>2.1.1 Systems Approach</b>		
	2.1.1.1A System Overview	40	
	2.1.1.2 Built-in-Test (BIT)	15	
	2.1.1.3 Platform Integration	30	
	2.1.1.5 Open Systems Architecture	20	
	2.1.1.6 Supportability and IPS Management	40	
	<b>2.1.2 Key System Performance Criteria</b>		
	2.1.2.4 System and Assignment Management	30	
	<b>2.2 Program &amp; Schedule</b>		
	2.2.2A Integrated Master Schedule (IMS)	10	
	2.2.6 GFP/GFE/GFF/GFI	5	
	2.2.7 Risk and Opportunity Management Processes	30	
	2.2.11 CMMI	15	
2B	WRITTEN	-	1 Original / 4 Copies
	<b>2.1 Design Approach</b>		
	2.1.1.1B System Overview (Optional, Classified)	5	
	2.1.1.4 Aeromechanical/ Air Vehicle	25	
	<b>2.1.2 Key System Performance Criteria</b>		
	2.1.2.1 EIRP (Classified)	50	
	2.1.2.2 Frequency and Spatial Coverage (Classified)	40	

	2.1.2.3 Jamming Techniques (Classified)	40	
	2.1.2.4B System and Assignment Management (Optional, Classified)	10	
	2.1.2.5 Size and Weight	30	
	<b>2.2 Program &amp; Schedule</b>		
	2.2.1 Integrated Master Plan (IMP)	As needed	
	2.2.2B Integrated Master Schedule (IMS)	As needed	
	2.2.3 Technology Roadmap	As needed	
	2.2.4 System Engineering Management Plan (SEMP)	As needed	
	2.2.5 Anti-Tamper Plan (Classified)	As needed	
	2.2.8 Master Test Plan	As needed	
	2.2.9 Government Use of Technical Data and Computer Software	As needed	
	2.2.10 Software Development Plan (software engineering management approach)	As needed	
	2.2.12 Affordability Management	As needed	
	2.2.13 Subcontract Management	As needed	
	2.2.14 Small Business Considerations	As needed	
3	PAST PERFORMANCE	75	1 Original/4 Copies
4	CORPORATE EXPERIENCE	75	1 Original/4 Copies
5	COST	As needed	1 Original/4 Copies
6	CONTRACT ADMINISTRATION	As needed	1 Original/4 Copies
7A	STREAMLINED ALTERNATE PROPOSAL ADDENDUM BOOK A (Optional)	As needed	1 Original/4 Copies
7B	STREAMLINED ALTERNATE PROPOSAL ADDENDUM BOOK B (Optional) with Cost Information	As needed	1 Original/4 Copies
Annex A	Integrated Master Plan	As needed	1 Original/4 Copies
Annex B	Integrated Master Schedule	As needed	1 Original/4 Copies
Annex C	Systems Engineering Management Plan	As needed	1 Original/4 Copies
Annex D	Anti Tamper Plan (Classified)	As needed	1 Original/4 Copies
Annex E	GFP/GFE/GFF/GFI List	As needed	1 Original/4 Copies
Annex F	Master Test Plan	As needed	1 Original/4 Copies
Annex G	Software Development Plan	As needed	1 Original/4 Copies

Annex H	Open Systems Management Plan (OSMP)	As needed	1 Original/4 Copies
Annex I	Small Business / Small Business Subcontracting Plan	As needed	1 Original/4 Copies
Annex J	Subcontracting Management Plan	As needed	1 Original/4 Copies
Annex K	TWBS	As needed	1 Original/4 Copies
Annex L	Past Performance	As needed	1 Original/4 Copies
Annex M	Contractor Experience	As needed	1 Original/4 Copies

Each volume must contain the following information:

- Cover and title page
- Title of proposal and proposal number as applicable
- Offeror's name, address and POC
- RFP number
- Proposal volume/book number
- Copy number
- Table of Contents (The table of contents must provide sufficient detail to enable easy location of important elements)
- Use tabs and dividers

The following table contains the attachments to Section L:

<b>Section L Attachment:</b>	<b>Section L Attachment Name:</b>
Section L Attachment (1)	TWBS Template
Section L Attachment (2)	AT Template
Section L Attachment (3)	Past Performance Questionnaire
<b>Section L Attachment (4)</b>	<b>Summary of Relevant Past Performance Contract Data</b>
<b>Section L Attachment (5)</b>	<b>Contractor Corporate Experience</b>
Section L Attachment (6)	OSMP Template
<b>Section L Cost Attachment Number:</b>	<b>Cost Attachment Name:</b>
Cost Attachment 1 (CA-1)	Program Work Breakdown Structure (PWBS) and PWBS Dictionary
Cost Attachment 2 (CA-2)	Modified DD Form 1921 Example
Cost Attachment 3 (CA-3)	Modified DD Form 1921-1 Example
Cost Attachment 4 (CA-4)	Cost Substantiation
Cost Attachment 5 (CA-5)	Systems Engineering/Program Management

Cost Attachment 6 (CA-6)	Skill Mix/ Composite Direct Labor Rate
Cost Attachment 7 (CA-7)	Government Furnished Equipment/Property/Facilities/Information List
Cost Attachment 8 (CA-8)	Software
Cost Attachment 9 (CA-9)	Recurring Hardware Information
Cost Attachment 10 (CA-10)	Platform Integration Hardware Impact Cost Substantiation
Cost Attachment 11 (CA-11)	Platform Integration Software Impacts

Catalog Card - Each volume must contain an 8 1/2" x 11" Catalog Card containing information from the cover and title page. The back of the card must be formatted with three columns entitled "Name", "Date Out", and "Date In". This card must be removable from the back of each book.

Table of Contents - The table of contents must provide sufficient detail to enable easy location of important elements.

No cost information, (e.g., DOLLAR VALUES AND / OR HOURLY RATES) shall be included in any volume other than Cost Volume 5, Contract Administration Volume 6, or Streamlined Alternate Proposal Addendum Book B Volume 7B.

#### **4.0 PROPOSAL SUBMISSION:**

Clearly mark all packages with the solicitation number. The submission date for all volumes shall be no later than the date and time specified in Block 9 of Standard Form 33 of the RFP. However it is requested that one hard copy and one electronic copy on a CD-ROM of Volume 3 Past Performance Table 3.2 "Summary of Relevant Contract Data Form," as well as Volume 1 Executive Summary Table E.S.1 "Offeror's Summary", and Volume 1 Executive Summary Table E.S.2 "Relevant Contract Summary" be submitted **three weeks** prior to the submission date/time specified on Standard Form 33 (Block 9).

#### 4.1 Unclassified Data

Method of delivery, such as by hand, United States Postal Service or commercial carrier, shall be coordinated with Kyle Richmond, PCO (301) 757-5273. Proposals shall be submitted using the address provided below. Initial and Final Proposals shall not be submitted by facsimile or electronically via email.

Naval Air Systems Command

Code: AIR- 2.2.1.2 (Attn: Mr. Kyle Richmond)

Solicitation Number: N00019-12-R-0035

47123 Buse Road

BLDG 2272 Suite 453

Patuxent River, MD 20670-1547

## 4.2 Classified Data

Data classified above the Secret Level shall not be submitted unless coordinated and submitted in accordance with paragraph 4.3 below. Classified material shall be packaged separately. Packaging and handling of the classified material must be in compliance with SECNAV M-5510.36 and associated DoD directives and procedures. Classified data submitted via United States Postal Service or through an overnight express carrier must be IAW paragraph 5.0B.

Hand delivery of classified data is only permitted with prior coordination of the Procuring Contracting Officer (PCO), and requires display of a valid courier card prior to handover of information. Couriers must possess a current security clearance and background investigation required to handle the information within their possession. Contact the PCO at 301-757-5273 a minimum of three working days prior to intended delivery date to arrange for a delivery appointment.

## 4.3 Classified Data above Collateral Secret

- a) Notice Regarding the Submission of Special Access Required (SAR) and/or Sensitive Compartmented Information (SCI).

The NGJ TD contract will be awarded at the collateral Secret level. However, information above collateral Secret may be submitted to substantiate or support proposal evaluations.

Prospective Offerors who believe that their NGJ TD proposal will require the submission of information protected as SAR or SCI must contact the Government personnel identified below as soon as possible.

For SAR, contact your SAR sponsor and the Department of the Navy Special Access Programs Coordinator, N89, Mr. Steve Kiepe at (703) 692-9305.

For SCI, contact your SCI sponsor and **NAVAIR AIR 4.12.2, Ms. Kim Cristaudo at 301-342-6300.**

These contacts will allow appropriate coordination to occur and will enable the prospective Offeror to gain the requisite approval from their SAR or SCI Sponsor, prior to the submittal of any SAR/SCI information. Interested parties are advised that any classified submission will be subject to review with the SAR or SCI Sponsor.

- b) Submittal

It is the Offeror's responsibility to ensure that information above Collateral Secret is cleared to be included as part of the proposal or to be used during discussions. If the information can be redacted to bring it to Collateral Secret level or below, the Offeror shall sanitize the information, and with sponsor approval, submit with the proposal. For

information that cannot be redacted to the Collateral Secret level or below, the Offeror shall submit in accordance with the following procedures:

- i. For SAR proposal submission, the Offeror shall submit a separate addendum to N89 upon Sponsor approval. For submittal instructions, contact Navy Special Access Programs Coordinator, N89, Mr. Steve Kiepe at (703) 692-9305 and your Government Sponsor for approval of release.
- ii. For SCI proposal submission, the Offeror shall submit a separate addendum to NAVAIR upon Sponsor approval. For submittal instructions, contact NAVAIR AIR 4.12.2, Ms. Kim Cristaudo at 301-342-6300.

## **5.0 PROPOSAL PACKAGING:**

### **A. UNCLASSIFIED PACKAGING**

The Offerors shall package the proposal volumes in cartons or equivalent packaging containers in the most efficient manner possible grouping like volumes to the maximum extent possible. Each box should identify its contents by including a packing slip detailing each volume/book number and title, and copy number. Each carton should be double wrapped. The outside of the carton should be plain and the inside carton shall be stamped or marked "For Official Use Only; and Source Selection Information – See FAR-2.101 and 3.104," marked for the intended recipient as identified below, and should only contain those proposals intended for that person. The master set of proposals and set No. 1 copy will be marked for NAVAIR PCO, AIR-2.2.1.2. The Master Set shall include all original proposal volumes, all proposal volumes on CD-ROM, a completed and original signed Standard Form 33; acknowledgement of all solicitation amendments, if applicable; and Representations, Certifications and Other Statements of Offerors or Respondents (Section K of this RFP) and other applicable fill-ins. Note: Any documents which contain cost data shall be on a separate disk(s) from the other disks.

### **B. CLASSIFIED PACKAGING**

Outer Wrap:

COMMANDER

ATTN CONTRACTS AIR 22 DIVISION

NAVAL AIR SYSTEMS COMMAND

47123 BUSE ROAD BLDG 2272 STE 453

PATUXENT RIVER MD 20670

Inner Wrap:

Commander

ATTN Kyle Richmond, AIR 2.2.1.2

Solicitation N00019-12-R-0035

Naval Air Systems Command

47123 Buse Road Bldg 2272, Ste 453

Patuxent River MD 20670

## 6.0 CHANGES TO SOLICITATION

For any changes and additional information prior to proposal due date for this solicitation, please go to website: [http://www.navair.navy.mil/doing\\_business/open\\_solicitations](http://www.navair.navy.mil/doing_business/open_solicitations)

Select solicitation number N00019-12-R-0035.

## 7.0 RESERVED

## 8.0 TECHNICAL LIBRARY

A Technical Library of information directly related to the requirements of this contract is available to all offerors. The library consists of two parts, an unclassified technical library, and the classified technical library.

The unclassified technical library, also known as the TD External Library is located on a secure web site that requires a Government approved APPS account, and an external certificate. To request access to the secure web site, contact the contract specialist, Ms. Kara Briscoe at [Kara.Briscoe@navy.mil](mailto:Kara.Briscoe@navy.mil), with the following information: Company name, classified mailing address, phone number, email address (if available), current CAGE number, DoD Central Contractor Registration (CCR) number and acknowledgement of the contractor's responsibility under the U.S. export control laws and regulations. Potential Offerors shall acknowledge that no dissemination of any export-controlled technical data subject to this requirement will occur in a manner that would violate applicable export control laws and regulations (DD Form 2345). Upon review of written request, verification of offeror's status and acknowledgement of the Offeror's responsibility under the U.S. Export laws and regulations, web site access instructions (<https://www> site address, user name, and password) will be provided. Potential contractors will need a Public Key Infrastructure (PKI) external certificate to access the unclassified external library. If a potential offeror does not already possess a PKI, please consult the following site for details on how to obtain a compliant Medium Assurance PKI certificate: <http://iase.disa.mil/pki/eca/index.html>.

Offerors may browse the classified library index, located on the unclassified TD External library, and request delivery of any document(s). The Government will provide a CD-ROM with the requested NGJ and EA-18G documents no later than three (3) business day following such request. The CD-ROM will be delivered by overnight mail to the address provided by the bidder.

For any changes and additional information to the solicitation please go to website:

[http://www.navair.navy.mil/doing\\_business/open\\_solicitations](http://www.navair.navy.mil/doing_business/open_solicitations)

## **RULES OF ORAL PRESENTATION**

The Government intends to conduct the Oral Presentations as unclassified briefings. The Government will notify the Offerors of the date and time they are expected to brief the oral presentation portion of the Technical Volume 2A.

### **9.0 Eligibility**

Eligibility for proceeding with oral presentations will be based on meeting the prerequisite and submitting a complete and timely proposal to the Government.

### **9.1 Schedule for Presentation**

The order of presentations will be determined by a random drawing of names for all Offerors that meet the prerequisite and submit a timely proposal. The Contracting Officer will notify Offerors within 5 work days from receipt of proposal of the scheduled date and time of their presentation.

### **9.2 Rescheduling**

Requests from the Offeror for rescheduling its presentation are strongly discouraged. However, the Government reserves the right to reschedule any Offeror's presentation at the discretion of the Contracting Officer.

### **9.3 Setting and Form of Oral Presentations**

Oral presentations will be made at a Government provided facility located at or near the Naval Air Systems Command, Naval Air Station, Patuxent River, Maryland.

### **9.4 Recordation**

The Government will video record the presentations. The Government will furnish all necessary video equipment and a cameraperson, which may be non- Government personnel. The Government will also provide an Offeror with a copy of the recording of its own presentation, upon request after contract award.

### **9.5 Offeror Employee Participation**

Offerors, including subcontractor representatives, are limited to no more than 10 attendees in the room at one time. A conference room will be available so that alternate personnel may rotate in and out of the presentations/discussions. Additionally a phone will be available in the presentation/discussion room to interface with on-site or off-site subject matter experts.

At least 2 business days prior to the scheduled start time of the Offeror's oral presentations, the Offeror shall provide the Government a listing of names, firms, and position titles of those individuals that will be attending the oral presentations to Kara Briscoe (cc Kyle Richmond)

### **9.6 Oral Presentation Procedures**

9.7.1 Oral presentation charts are to be submitted to the Government with the written portion of the proposal.

9.7.2 On the first and second day, the Offeror will be allotted the times noted in the “Oral Presentations and Discussions Agenda” table. The times are considered approximate and the Government does not require that an Offeror use the full time provided.

The Offeror will utilize the charts submitted with the proposal (Vol II) for the oral presentation. The Offeror may only use these during its presentation. The Offeror shall not modify these slides or supplement them with other written material (slides, flip-charts, handouts).

The Offeror is strongly encouraged to forego time and charts addressing company organizational structure and marketing information. In the event of minor administrative errors or inconsistencies on the briefing slides, offerors will be allowed to make corrections during the oral presentation. In depth questions will be addressed during the discussions sessions.

#### 9.8 Discussions Procedures

The Government intends to conduct discussions for the entire proposal, as defined in FAR 15.306(d) after the Offeror’s initial oral presentation in order to maximize the Government's ability to obtain best value based on the requirement and the evaluation factors set forth in the solicitation. The Offeror should be prepared to respond to the Government's questions during these discussions. If there are open actions, discrepancies or inadequacies identified at the end of this session, they will be documented and provided in writing to the Offeror after completion of the oral discussions per table A.9.9 below. Discussions will continue beyond the conclusion of the oral presentations. On day one, the Offerors have the flexibility to schedule presentation order and breaks into the agenda as the presentation format allows. All oral presentations other than IMS must be conducted on day one.

<b>Table A.9.9 Oral Presentations and Discussions Agenda</b>		
<b>APPROXIMATE START TIME</b>	<b>DAY 1</b>	<b>ALLOTTED TIME (Minutes)</b>
<b>0830</b>	<b>Introduction</b>	<b>210</b>
<b>1200</b>	<b>Lunch</b>	<b>60</b>
<b>1300</b>		<b>240</b>
<b>1700</b>	<b>Adjourn</b>	
<b>APPROXIMATE START TIME</b>	<b>DAY 2</b>	<b>ALLOTTED TIME (Minutes)</b>

<b>Table A.9.9 Oral Presentations and Discussions Agenda</b>		
<b>0830</b>	<b>2.2.2A Integrated Master Schedule (IMS)</b>	<b>195 (Includes a fifteen minute break)</b>
<b>1145</b>	<b>Lunch</b>	<b>60</b>
<b>1245</b>	<b>IMS Discussions</b>	<b>195 (Includes a fifteen minute break)</b>
<b>1600</b>	<b>Adjourn</b>	
<b>APPROXIMATE START TIME</b>	<b>DAY 3/4</b>	
<b>0830</b>	<b>Discussions</b>	<b>195 (Includes a fifteen minute break)</b>
<b>1145</b>	<b>Lunch</b>	
<b>1245</b>	<b>Discussions</b>	<b>195 (Includes a fifteen minute break)</b>
<b>1600</b>	<b>Adjourn</b>	

## 9.9 Presentation Supplies

The Government will provide a computer connected to an overhead projector/digital projector. The Offeror may provide their own computer to be used during the presentations, if desired, to facilitate the use of software necessary for the presentation). The Offeror is responsible for any other presentation supplies that are not available from the Government. At the conclusion of the presentation, the Offeror shall return the original slides along with all overhead slides (paper copies and original slides) used during the presentation. Offerors are limited to technical information only, no mention of prices or profit shall be included. Offerors should mark slides in accordance with FAR 52.215-1(e), Restrictions on Disclosure and Use of Data.

## PART B SPECIFIC INSTRUCTIONS

### 1.0 VOLUME 1 – EXECUTIVE SUMMARY

**Note: This volume shall not contain any reference to cost or price aspects of the offer.**

The purpose of the Executive Summary is to provide the evaluators with an overview of the Offeror’s entire proposal, excluding cost/price. Each section should contain the salient points contained in each of the volumes. In addition, it must be used by the Offeror to identify and highlight significant features of the proposal. This volume should be divided into the following sections:

1.1 Prerequisite:

The Offeror shall provide a copy of a NAVAIR letter stating that the exit criteria for Design Review (DR) has been met establishing product baseline for the NGJ system prototype and that DR was conducted based on NAVAIRINST 4355.19D, Systems Engineering Technical Review (SETR) Process Handbook for CDR.

1.2 Offeror Summary Table:

The Offeror shall complete the table below. The Offeror should include itself as well as all subcontractors and team members who will be involved with the performance or management of the program work and should list all places of performance where the work will be carried out, being careful to include accurate physical locations and CAGE Codes/DUNs numbers associated with the physical locations (if applicable). Provide a brief work description and/or program responsibility in the table below. Also provide a definition of the legal relationship between the entities if it is other than a Prime/subcontractor relationship in the “Brief Work Description and/or Program Responsibility” column. Finally, provide the percentage of total proposed price for all subcontractors and team members being careful to include all subcontractors and team members so that the total proposed Target cost adds up to 100% of the contract cost (Cost plus Incentive Fee at Target cost to the Government).

\*Note: If recently acquired companies or predecessor companies will have a program responsibility, ensure those Companies, their program responsibility, and CAGE codes/DUNs are identified separately.

Table E.S.1 Offeror Summary

Contractor Name (List all involved with performance or management of program work and Indicate Prime, Principal/Critical Subcontractor, JV/SLE Team Member, or other)	Places of Performance (include accurate physical location of contractor)	*CAGE Codes/DUNs associated with Physical Location	*Brief Work Description and/or Program Responsibility	% of Total Proposed Target Cost
Total Proposed Target Cost (must add up to 100%)				100%

1.3 Technical – The Offeror shall describe the system design and identify how this design addresses the requirements of this solicitation as well as the salient features of its management approach;

1.4 Past Performance – Provide a brief narrative of the Offeror’s (and Offeror’s principal subcontractors, critical subcontractors, and JV/SLE team members) past performance and systemic improvements which pertains to the tasks required to complete this program;

1.5 Corporate Experience – Provide a brief narrative of the Offeror’s (and Offeror’s principal subcontractors, critical subcontractors, and JV/SLE team members) relevant corporate experience, which pertains to the tasks required to complete this program;

1.6 Terms and Conditions (if proposed) - Provide a summary of the significant changes to terms & conditions, assumptions, exceptions or deviations addressed in Volume 6.

1.7 Streamlining – Provide a summary of the significant streamlining suggestions addressed in Streamlined Alternate Proposal Addendum Book B Volume 7B. If streamlining suggestions are not proposed, state so here and omit Volume 7;

1.8 The Offeror shall populate the Relevant Contract Table for all contracts proposed as relevant to the evaluation of Past Performance and/or Corporate Experience. Each contract shall be given a unique contract reference number where Prime contracts will be denoted by P1...Px, Subcontractor contracts will be denoted as S1...Sx, and JV/SLE Team Member contracts will be denoted as T1...Tx (where x= the total number of contracts referenced for each type of performing entity). The contract references shall be numbered consecutively across all Subcontractors and also JV/SLE Team Members (as illustrated by the example below). Ensure that contracts identified in Past Performance are numbered consistently with those identified in Corporate Experience (i.e. P1 in Past Performance is the same as P1 in Corporate Experience). The references designated in the table below shall be used in completing Volume 3 Table P.P.1 Summary of Relevant Past Performance Contract Data and Volume 4 Table C.E.1 Contractor Experience and should be consistent throughout;

Table E.S.2 Relevant Contract Summary

Offeror:			Referenced in:	
Contractor Name	Contract Reference	Contract Number	Volume 3 (Past Performance)	Volume 4 (Corporate Experience)
Prime or Company A/B (Joint Venture)	P1	XXXXXX-XX-X-XXXX	X	X
	P2	XXXXXX-XX-X-XXXX	N/A	X
	P3	XXXXXX-XX-X-XXXX	X	N/A
Company A (for JV/SLE team member)	T1	XXXXXX-XX-X-XXXX	X	X
	T2	XXXXXX-XX-X-XXXX	X	N/A
	T3	XXXXXX-XX-X-XXXX	N/A	X
	T4	XXXXXX-XX-X-XXXX	X	X
Company B (for JV/SLE)	T5	XXXXXX-XX-X-XXXX	X	X

team member)				
Subcontractor A	S1	XXXXXX-XX-X-XXXX	X	N/A
	S2	XXXXXX-XX-X-XXXX	X	X
	S3	XXXXXX-XX-X-XXXX	X	X
Subcontractor B	S4	XXXXXX-XX-X-XXXX	X	X
	S5	XXXXXX-XX-X-XXXX	X	X
Subcontractor C	S6	XXXXXX-XX-X-XXXX	X	X

1.9 Viewgraphs/Photographs – To assist the Government in understanding the Offeror’s design and as an aid in briefing Navy management, up to five electronic photographs for the proposed concept may be submitted. The electronic photographs must be in a standard readable format, e.g. Joint Photographic Expert Group (JPEG). Any text placed on these pictures shall contain factual information only, i.e., no “marketing”.

**2.0 VOLUME 2 - TECHNICAL**

**Note: This volume shall not contain any reference to cost or price aspects of the offer.**

This volume consists of three books – 2A Oral Presentation Slides, 2B-2.1 Design Approach and 2B-2.2 Program & Schedules. Please provide each book in a separate 3-ring binder. In this volume, provide the following:

A Government Cross Reference Matrix (CRM) is provided below as guidance to help the Offeror ensure that all requirements are addressed, are easily accessible to the evaluators, and to aid in ensuring accurate format and mapping of the CRM of its proposal. The Offeror is required to provide a CRM for the Technical Volume 2 and it shall be placed in each Book of the Technical Volume providing a single integrated matrix. Additional CRM’s may be developed as needed for other volumes by the Offeror. The Offeror’s CRM’s shall cross-reference its proposal volumes and paragraphs to specific RFP requirements, as well as other parts of the proposal that contain relevant information. The CRM provided in the Technical proposal volume is not included in the suggested page count. The Offeror’s Technical CRM may be identical to the one provided at Table T.1, below, which may be revised to add columns to indicate the page number on which information may be found, identify where other relevant information in the proposal is located, revise requirement references, or provide other comments.

Table T.1. Cross Reference Matrix (CRM)

Section L – Proposal Instructions	TD SOW	EMD SOO	Section M-Evaluation Factors	SPS Number	Proposal Reference
2.0 Vol. 2 Technical					
2.1 Book A - Design Approach					
2.1.1 Systems Approach					
2.1.1.1 System Overview	3.4.1.2.1, 3.4.11.3		II.A.1	SPS- 1338, 1491, 192, 210, 1352, 1499, 1500, 875, 876, 1543, 527, 595, 1292  cSPS- 14, 28, 291,296, 537	
2.1.1.2 Built-In-Test (BIT)	3.4.13.7.3		II.A.1	SPS- 379, 1293, 1294, 1268, 388	
2.1.1.3 Platform Integration	3.4.16.1, 3.4.16.3	2.4.3	II.A.1	SPS- 880, 889, 1478, 1483, 1485, 1487, 1534, 1535, 166, 1501	
2.1.1.4 Aeromechanical/ Air Vehicle			II.A.1	SPS- 574, 582, 586, 873, 546, 592, 917, 918, 27, 890	
2.1.1.5 Open Systems Architecture	3.4.7		II.A.1	SPS- 226	
2.1.1.6 Supportability and IPS Management	3.4.17.3.1		II.A.1	SPS- 371, 468, 469, 478, 485, 490, 497, 848, 850, 851, 1280, 1282, 1502, 380, 1536	
2.1.2 Key System Performance Criteria					
2.1.2.1 EIRP			II.A.1	SPS- 622, 760, 238, 330  cSPS- 16, 26	
2.1.2.2 Frequency and Spatial Coverage			II.A.1	cSPS- 34, 62, 36, 734, 64, 42, 47, 49, 67, 13	
2.1.2.3 Jamming Techniques			II.A.1	cSPS- 97, 98, 99, 186, 187, 735, 249, 260, 617, 286, 297, 309, 401, 402, 403, 761	
2.1.2.4 System and Assignment Management			II.A.1	SPS- 1513, 106, 115, 116, 117  cSPS- 169, 634, 635, 640	

<b>2.1.2.5 Size and Weight</b>			<b>II.A.1</b>	<b>SPS- 894, 1259, 882, 893, 897, 900</b>	
<b>2.2 Book B - Program &amp; Schedule</b>					
<b>2.2.1 Integrated Master Plan (IMP)</b>	<b>3.2.1.3</b>	<b>2.0</b>	<b>II.A.2</b>		
<b>2.2.2 Integrated Master Schedule (IMS)</b>	<b>3.2.1.3</b>	<b>2.0</b>	<b>II.A.2</b>		
<b>2.2.3 Technology Roadmap</b>	<b>3.5.1, 3.5.2.1, 3.5.2.2, 3.5.2.3</b>		<b>II.A.2</b>		
<b>2.2.4 System Engineering Management Plan (SEMP)</b>	<b>3.3.2</b>	<b>2.3.3</b>	<b>II.A.2</b>		
<b>2.2.5 Anti-Tamper Plan</b>	<b>3.1.2.4.1</b>		<b>II.A.2</b>	<b>SPS- 519</b>	
<b>2.2.6 GFP/GFE/GFF/GFI</b>			<b>II.A.2</b>		
<b>2.2.7 Risk and Opportunity Management Processes</b>	<b>3.1.3.1</b>		<b>II.A.2</b>		
<b>2.2.8 Master Test Plan</b>	<b>3.3.7.1</b>	<b>2.10.3</b>	<b>II.A.2</b>		
<b>2.2.9 Government Use of Technical Data and Computer Software</b>			<b>II.A.2</b>		
<b>2.2.10 Software Development Plan (software engineering management approach)</b>	<b>3.4.11.2.6</b>		<b>II.A.2</b>		
<b>2.2.11 CMMI</b>	<b>3.4.11.2</b>		<b>II.A.2</b>		
<b>2.2.12 Affordability Management</b>	<b>3.2.1.9, 3.2.1.10</b>		<b>II.A.2</b>		
<b>2.2.13 Subcontract Management</b>	<b>3.2.1.8</b>		<b>II.A.2</b>		
<b>2.2.14 Small Business Considerations</b>			<b>II.A.2</b>		

Throughout the Technical Volume 2 the Offeror should identify any capability, approach or feature that is being proposed as exceeding a requirement with a performance or operational benefit to the Government or being proposed as reducing risk inherent in the program. Specifically, explain the benefits to the Government in technical terms and the degree of impact it will have to performance, operations and/or risk. Appreciably exceeding requirements that are expressed as a minimum or threshold requirement can potentially produce performance or operational benefits. Beyond the point where there is performance or operational benefit, there may be risk reduction benefits. Appreciably exceeding the threshold in requirements that are expressed with both a threshold and an objective can also potentially produce performance or operational benefits, but only up to the objective. If the objective is also appreciably exceeded, that part could be considered as risk reduction, providing confidence that the objective will be met. Additionally, a proposal that provides the Government with a capability, service or resource that is not specifically required, but benefits the program can have merit if it appreciably enhances performance and/or operations to benefit the Government. Offerors are advised that any offer to exceed a requirement or to provide a feature with performance and/or operational benefits may be included in the resulting applicable instant contract within the proposed price.

## **2.1 Design Approach**

### **2.1.1 System Approach**

#### **2.1.1.1 System Overview**

The Offeror shall provide an introduction that includes a description of the proposed NGJ system and how the Offeror intends to meet the requirements provided in the solicitation. The introduction shall be written at the system level and describe the purpose of the system. The Offeror shall describe the NGJ System design in sufficient detail to understand the proposed architecture and partitioning of HW/SW components. A software component performs functions that are logically grouped and can be a module (to include CSU, CSC and CSCI), service, package or application. The Offeror shall provide the rationale for the proposed design approach, architecture and the corresponding HW/SW partitioning and impact on system performance.

- a) **Hardware Architecture**: The Offeror shall provide a functional block diagram that depicts the proposed hardware configuration items (HWCI) that will comprise the proposed system, including any HWCI associated with modifications to the host platform. HWCI depicted shall be to the fourth level of indenture (e.g., system, pod, weapons replaceable assembly (WRA), shop replaceable assembly (SRA)). For each HWCI, the Offeror shall describe the key functional and physical attributes and identify the sub-sections of Section 3.1, 3.2, 3.3, and 3.4 of the SPS from which these attributes are derived. The Offeror shall describe the rationale for the proposed Hardware architecture and the rationale for the corresponding partitioning of components to SRAs and O-level replaceable items. The Offeror shall provide descriptions of the electrical and mechanical interfaces between HWCI to the third level of indenture (e.g. WRA), describe the function of each interface, and, for electrical interfaces, the signals, data and information transferred across each interface.

- b) Software Architecture: In the proposal, the Offeror shall address firmware identically as software. The Offeror shall describe each proposed software and firmware component's key functional attributes and identify the sub-sections of Section 3.1, 3.2, 3.3, and 3.4 of the SPS from which these attributes are derived. The Offeror shall provide a description of the functions allocated to the software and firmware and how these functions are allocated between different software components. The Offeror shall describe the rationale for the proposed software and firmware architecture and the rationale for the corresponding partitioning components to components. The Offeror shall provide a block diagram depicting the proposed software and firmware functional allocation. The Offeror shall identify interfaces between the proposed software and firmware components. The Offeror shall include software and firmware size estimates for the NGJ Operational Flight Program (OFP) and User Data Files (UDF) that will be produced during the EMD phase, to include new, modified, re-used, and COTS code. The estimates provided shall be identical to software and firmware size estimates included in the cost volume. Software and firmware descriptions shall also include the proposed programming language(s) and complexity factors. For software and firmware that is modified or re-used, the Offeror shall describe the program or product that it is coming from and its applicability.
- c) Missionization: The Offeror shall describe how the architecture supports mission selectable reconfiguration per SPS 3.3.11. The Offeror shall describe the different configurations of SPS Table 16 that are achievable by the proposed design. The Offeror shall describe how the NGJ system will meet future high band transmit capability of section 3.3.1 of the NGJ SPS when configured with high band capability. The Offeror shall describe any design features to minimize impacts that mission selectable reconfiguration may have on logistics footprint and Total Ownership Cost. The Offeror shall describe how reconfiguration timeline is achieved at the O-Level to include access time, removal and replacement of the required reconfigurable hardware, software and firmware loading and checkout.

#### 2.1.1.2 Built-in-Test (BIT)

The Offeror shall describe each level of BIT and how it will satisfy the requirements of NGJ SPS Section 3.3.10.2. The Offeror shall describe any constraints associated with accomplishing each level of BIT, including, but not limited to available power, available cooling, Radio Frequency (RF) safety, effects on mission performance, and security requirements. The offeror shall describe how Startup BIT (SBIT) will be completed while satisfying constraints including system initialization time, Operation Flight Program (OFP) load time, security requirements, host platform power limits, NGJ system and/or subsystem power sequencing, and pod mission configuration for Alert-7 operations as specified in SPS section 3.3.10.2.3.

#### 2.1.1.3 Platform Integration

- a) Interface: The Offeror shall describe how the NGJ system will interface with the EA-18G host platform. The Offeror shall describe the physical and functional interfaces

and boundaries between the NGJ system and the host platform for both hardware and software, to include the anticipated platform modifications in paragraph b below that are applicable to the Offeror's approach. The Offeror shall provide top-level allocations (e.g., throughput, latency, protocol, classification, etc.) for each of the interfaces between the NGJ system and the host platform. The Offeror shall explain how the interface allocations were derived. The Offeror shall explain how the proposed NGJ system satisfies those allocations, to include the anticipated platform modifications in paragraph b below that are applicable to the Offeror's approach.

b) Anticipated Platform Modifications: The following list is a summary of the anticipated modifications to the EA-18G host platform and onboard systems that the government recognizes may be necessary for NGJ integration. It is not mandatory that the Offeror incorporate these modifications into the NGJ design approach. The Offeror shall specify which modifications their design will require and the Offeror shall incorporate the prescribed size, weight and power allocations into their overall NGJ system allocations.

1. A high speed data network (HSDN) over fiber, using fibre channel protocol, may be provided from the Electronic Attack Unit (EAU), Advanced Mission Computer (AMC), and Digital Memory Device (DMD) to Stations 3 and 9 via the two Fibre Channel Network Switches (FCNS). Each station may be provided with 2 fibers, each with a maximum 1 Gbit/sec data rate. The Pylon or Pylon Station Control Unit (SCU) may be modified to include a fiber/coax converter or a fiber optic repeater. The two FCNSs may be upgraded to provide an additional 8 ports per FCNS, and a quad receiver to improve link margin. These modifications require a 15 lb weight allocation within the NGJ system.
2. The ALQ-218 software and firmware may be modified to provide a modified blanking preconditioning message for the NGJ bands and sub-band blanking.
3. The ALQ-218 software and firmware may be modified to add preconditioning messages for the AB Fwd (CCM), AB Aft (CCM), and Exciter Synchronization lines to produce 3 general-purpose synchronization lines. The synchronization lines may support CCM sync, pulse, sequence, and technique sync, and sync between pods.
4. The Stores Management Set (SMS) software may be modified to recognize and provide unique identification for the NGJ pods.
5. The Advanced Mission Computer (AMC) software may be modified to adapt EA-18G controls and displays, collect and display NGJ status via the EAU, provide operator selections for the NGJ pods, and provide platform navigation and alignment data via the EAU and the Stores Management Processor (SMP).
6. The Enhanced Interference Blanking Unit (EIBU) software may be modified as required to provide on-board systems interoperability with NGJ.
7. The Electronic Attack Unit (EAU) software may be modified to adapt jammer management, collect and display NGJ status, send commands including jamming requests to the NGJ pods, provide operator selections for the NGJ

pods, and provide platform navigation and alignment data. Jammer management includes assignment generation, aircraft load-out, and jammer pod selection decisions but does not include the NGJ system management functions as shown in the NGJ SPS Section 3.3.3 Figure 7 NGJ System Management Functions.

8. The Jammer Technique (JT) libraries may be modified to support the required functionality of the SPS.
  9. The EA-18G mission planning software may be modified to support mission planning for NGJ, including NGJ jammer management, library modifications and jammer footprint modifications.
  10. The SMS, AMC and EAU software may be modified to allow the NGJ system to use allocated aircraft supplied electrical power according to the operation of the aircraft electrical power sources.
  11. The Digital Memory Device (DMD) may be modified to increase storage capacity and throughput. No additional size, weight or power allocations are required.
- d) Additional Host Platform Modifications: The Offeror shall describe any additional modifications proposed for the EA-18G host platform and onboard systems not listed in the anticipated platform modifications paragraph b above. For every modification proposed that is not listed in paragraph b above, the Offeror shall identify the NGJ SPS requirements that drive need for the modification and justify why the modification is necessary to meet those requirements. The Offeror shall provide descriptions of all proposed hardware Configuration Items (CIs) that will be installed internal to the host platform, including allocations for size, weight, power, cooling and drag.

#### 2.1.1.4 Aeromechanical/Air Vehicle

- a. Drag: The Offeror shall provide the estimated drag of the NGJ system, excluding interference drag due to the platform and stores. The Offeror shall describe any design features that minimize drag as a function of each state in SPS Section 3.2 and estimate the affect these features have on drag. The Offeror shall include any supporting data from wind tunnel, models and simulation, and computer based analysis.
- b. Loads: The Offeror shall describe plans for static and dynamic loads assessment and detail adequate load margins in the internal pod structure in accordance with SPS Sections 3.6.9.1, 3.9.15, 3.6.1.14, and throughout the EA-18G operational envelope provided in SPS Figure 13.

- c. Corrosive Environments: The Offeror shall describe plans and related materials for the prevention of corrosion on both external and internal components as described in SPS Section 3.6.1.15.

#### 2.1.1.5 Open Systems Architecture

- a. Interfaces: The Offeror shall describe all key interfaces internal to the NGJ system, explain why each is a key interface and provide a detailed description of the interface data to be provided to the Government to enable unimpeded, innovative, and cost effective production, operation, maintenance, and upgrade of the NGJ system throughout its life cycle and allow for open and competitive procurement of NGJ system enhancements. The Offeror shall provide supporting documentation that the proposed use of existing or emerging open standards at the key interfaces conforms to open standards (i.e., well documented and published by a recognized standards body). The Offeror shall provide results from Key Open Subsystems (KOSS) tool analysis to identify components that are expected to change often and components expected to have relatively high replacement cost over the life cycle. The Offeror shall explain each use of vendor-unique, limited or restricted rights, and closed components and describe how the proposed OSA approach provides mitigation that allows other developers to interface with the component and develop, replace and upgrade other components in the NGJ system. The Offeror shall describe the specific OSA mitigations for each instance of data rights being asserted at less than GPR.
- b. Application Programming Interfaces (API): The Offeror shall describe all Application Programming Interface(s) (APIs) that are proposed, including unique profiles, libraries and calls that are not supported by widely used open standards. The Offeror shall identify all unique API proposed and describe how the API implementation will be documented. The Offeror shall describe the proposed mitigation approach to any APIs that will be delivered with a less than GPR license.
- c. Open Systems Management Plan: Utilizing the Section L Attachment 6 OSMP Template, the Offeror shall submit a preliminary version of their Open Systems Management Plan (OSMP) as Annex H per the SOW and Section J Exhibit A, addressing the entire program development effort, including the TD and EMD phases.

#### 2.1.1.6 Supportability and Integrated Product Support (IPS) Management

- a. Logistics: The Offeror shall describe how the design will meet the logistics requirements of the SPS. The Offeror shall describe any impacts to existing support equipment, facilities infrastructure, and materials due to fielding the proposed NGJ system.
- b. Prognostics and Health Management: The Offeror shall describe how the PHM approach will track the pod life usage accumulation, predict remaining life, and predict failures on life-limited system components including moving machinery and cooling equipment. The Offeror shall describe the analyses and process, including ground rules

and assumptions, for determining the implementation of prognostics into the NGJ system design.

- c. **Reliability:** Describe how the design meets the reliability requirements of the system specification paragraph 3.4.1. Provide the system reliability block diagrams, models, and predictions for Mean Time Between Failures (MTBF) (SPS-1502) and Mean Flight Hours Between Failures System (MFHBF SYS) (SPS-1280). Predictions should be at the system and subsystem level. Include the basis for prediction and/or source of measured data. For measured data, provide usage information, including the environment (i.e. Aviation 3-M, commercial, etc.), and how the resultant reliability values were calculated for each WRA/SRA. Provide supporting data for the environmental parameters utilized. For items where usage data is not available, provide a prediction (using MIL-HDBK-217 as guidance), considering worst-case operating and thermal conditions as defined in the system specification. In addition, the Offeror shall describe:
1. Ground rules and assumptions used in meeting the requirements;
  2. Identification and allocation of software and firmware failures to the system reliability predictions;
  3. Specific reliability design features such as redundancy or graceful degradation;
  4. How any COTS items and Non Developmental Items will be integrated into the system to meet the subsystem level reliability requirements;
  5. The management organization, policies, procedures, and schedules to meet the reliability specification requirements and to ensure that reliability considerations (at the prime contractor and subcontractor levels) are integrated into the design process (i.e. reliability program reviews, status reporting, trade studies, etc.);
  6. Design, analysis, test and manufacturing tasks that will be performed to demonstrate a managed maturation process at the subsystems level;
  7. Approach for the conduct of the Failure Modes Effects and Criticality Analysis (FMECA). Include the proposed indentured level (i.e. component, SRA, or WRA) that will be used to start the FMECA and how the FMECA results will be used for diagnostics evaluation and by the logistics support effort;
  8. The failure reporting, analysis and corrective action system (FRACAS) and how it will be implemented during all phases of the program.
  9. The proposed reliability growth planning to identify actual (via testing) or potential (via analysis) sources of failure. Include a reliability growth planning curve that addresses the following:
    - i. The amount of testing, test schedule, and resources available for achieving the specification requirements;
    - ii. Reliability growth planning curve as a function of test time, to grow the reliability to the specification values.
      - a) Provide a basis for the starting point that represents the initial value of reliability for newly manufactured hardware.
      - b) Provide a basis for the growth rate.

- iii. A growth strategy to monitor system reliability growth during system level test using AMSAA Crow Extended model.
- d. **Maintainability:** Describe how the design meets the maintainability requirements of the system specification paragraph 3.4.2 and 3.8.4. Provide the predicted Mean Time to Repair (MTTR)(SPS-478), Maximum Time to Repair (MaxTTR) 90% (SPS-480), pod installation time (SPS-481), and pod removal time (SPS-483). Include the basis for prediction and/or source of measured data; provide a prediction (using MIL-HDBK-472 as guidance) for configuration items where empirical data is not available. Maintainability predictions shall assume a deployed maintenance scenario. In addition, describe:
  1. Ground rules and assumptions used in meeting the requirements;
  2. Specific design for the maintainer and maintainability features;
  3. The management organization, policies, procedures, and schedules to meet the maintainability specification requirements and to ensure that maintainability considerations (at the prime contractor and subcontractor levels) are integrated into the design process (i.e. maintainability program reviews, status reporting, trade studies, etc.)
  4. The maintainability design tasks and tests that will be utilized for this program.

## 2.1.2 Key System Performance Criteria

### 2.1.2.1 EIRP

- a. **Design and Allocations:** The Offeror shall describe the design efforts for meeting the Effective Isotropic Radiated Power (EIRP) requirements defined in the NGJ SPS Section 3.3.1.2. The Offeror shall describe how the EIRP requirements are allocated to each RF component gain/loss as a function of frequency (i.e., loss budget), including radome, radiating elements, feed networks, power amplifiers, drive networks, and exciters. The Offeror shall provide detailed descriptions regarding how the allocations account for performance-degrading conditions including amplifier load-pull, amplifier module maximum load impedance, amplifier drain voltage, amplifier junction temperature, amplifier failures, antenna taper, calibration and leveling effects, compression levels, scan-effects, co-located arrays, platform interaction, and environment (e.g., vibration, altitude, temperature). The Offeror shall describe the power generation and consumption allocations of all NGJ components, at a minimum to the SRA level. The Offeror shall explain how these allocations ensure sufficient power is available to meet the EIRP requirements. The Offeror shall describe the cooling capacity and waste-heat generation allocations of all NGJ components, at a minimum to the SRA level. The Offeror shall explain how these allocations ensure sufficient cooling is available to meet the EIRP requirements.
- b. **Substantiation:** The Offeror shall substantiate the achievability of each allocation using measured data from directly relevant demonstrations. If measured data is not available, the Offeror shall substantiate the allocations using modeling and simulation tools and include a description of the verification, validation, and accreditation results for the

tools used. For each substantiation, the Offeror shall describe the measurement conditions and technical rationales used and explain how they were directly relevant to the proposed NGJ design.

#### 2.1.2.2 Frequency and Spatial Coverage

- a. Design and Allocations: The Offeror shall provide a description of the technical approach to steer beams over the required frequency and spatial coverage in accordance with the NGJ SPS. The description shall reflect compliance with the NGJ SPS requirements including instantaneous frequency bandwidth and beamsteer rate. The Offeror shall describe beamsteering allocations across components, including data transfer rates, component switching speeds, phase and amplitude error allocations, number of tunes, and memory required.
- b. Substantiation: The Offeror shall substantiate the achievability of each allocation using measured data from directly relevant demonstrations. If measured data is not available, the Offeror shall substantiate the allocations using modeling and simulation tools and include a description of the verification, validation, and accreditation results for the tools used. For each substantiation, the Offeror shall describe the measurement conditions used and explain how they were directly relevant to the proposed NGJ design.

#### 2.1.2.3 Jamming Techniques

- a. Jamming Technique Architecture: The Offeror shall describe the implementation of technique generation and signal distribution to achieve required type and number of simultaneous assignments. The Offeror shall describe how the RF chain, from technique generation through system transmission, with intermediate amplification, will support overall system spectral purity requirements (i.e., spurious, harmonic, intermodulation) of NGJ SPS section 3.3.1.
- b. Technique Development: The Offeror shall describe the lab support environment and methods for defining new techniques and modifying existing techniques. The Offeror shall describe how the NGJ system enables the incorporation of new techniques and the modification of existing techniques. The Offeror shall identify any specialized or unique tools needed for technique development and modification.
- c. Jamming Technique Description: The Offeror shall describe the coherent techniques proposed to meet the NGJ SPS. The Offeror shall describe any synchronization necessary to support the techniques.
- d. Waveform Generation: The Offeror shall describe the design approach to achieve the techniques specified in SPS Section 3.3.2 Waveform Generation.

#### 2.1.2.4 System and Assignment Management

- a. Design Approach: The Offeror shall describe the design approach to meet NGJ System and Assignment Management requirements in NGJ SPS section 3.3.3. The Offeror shall describe features to optimize the number of assignments for the available assets,

while ensuring that jamming effect is maintained. The Offeror shall describe time sharing of jamming assets and adequate rules and management to ensure compatibility of time-shared assignments (NGJ SPS section 3.3.2.9 Time Commutated Assignments). The Offeror shall describe how the design minimizes interruptions to jamming and how the design supports reactive assignments within mission timelines (NGJ SPS section 3.3.2.1 Reactive Assignments).

- b. Library and ALQ-99 Interaction: The Offeror shall describe in detail what platform, library, and mission data will be required by the System and Assignment Management functions (NGJ SPS section 3.3.3 System Management and NGJ SPS section 3.3.3.2 Assignment Management). The Offeror shall describe how System and Assignment Management will work in conjunction with EAU Jammer Management and the existing ALQ-99 system.

#### 2.1.2.5 Size and Weight

- a. Size: The Offeror shall describe the proposed dimensions of the NGJ System outer-mold line (OML) and how it satisfies the platform compatibility requirements of the EA-18G. The Offeror shall describe the approach to achieve size constraints detailed in the NGJ SPS section 3.9.7.
- b. Weight: The Offeror shall submit a preliminary mass properties estimate at least to the level of detail of Society of Allied Weight Engineers (SAWE) Recommended Practice Number 8: "Weight and Balance Data Reporting Forms for Aircraft (including Rotorcraft)." The Offeror shall provide the preliminary mass properties and other data listed below in accordance with SAWE Recommended Practice Number 7, to the extent available at the time of proposal to specifically address:
  1. Weight (pounds; nominal and minimum to maximum range)
    - i. The Offeror shall include a development allowance or contingency that accommodates the NGJ system weight at IOC to mitigate risk for weight growth during design development. The allowance(s) should be established at appropriate levels considering historical data, estimation process, and design-unique risks and uncertainties. The Offeror may elect to not apply a weight allowance on items for which actual weight data substantiation exists.
    - ii. The sum total of NGJ subsystem and components including the development allowance shall not exceed the system weight as specified in the NGJ SPS.
  2. Center of Gravity:
    - i. Each component center of gravity shall be measured in inches (and decimal fractions thereof) from a defined reference coordinate system or an easily visible, definable, and consistent between all production units external reference point and also referenced to the forward lug hook point.
    - ii. Each component's center of gravity shall be provided for the three primary axes (longitudinal, lateral, and vertical).
  3. Inertia:

- i. Mass Moments of Inertia (slug-ft<sup>2</sup>, referenced to the CG; nominal and minimum to maximum range) in 3 axes (pitch, roll, and yaw) at Spec Weight and current status weight.
4. Other data:
- i. Weight substantiation for NGJ system shall be provided. In order of substantiation validity, supply actual weight data for existing unmodified items followed by existing items modified for use for this NGJ subsystem and components, items calculated from fully analyzed and production ready (released drawing quality) items, and all other estimated weights. If applicable and available, existing actual weight reports should be provided to substantiate actual weights. For estimated weights, the Offeror shall provide, the analytical basis of parametric relationships, if utilized, including definitions of parameters and correlation with actual weights of existing hardware. If available, the Offeror should discuss the historical accuracies of the methods as applied on previous programs.
  - ii. As available, subsystem and component pictures, drawings and dimensional data:
    - a. Three view drawings, diagrams, and/or computer generated models of the overall NGJ subsystem and components These shall include as appropriate dimension from the reference datum for the horizontal and vertical moment arms to a convenient fixed point on the component, scale for determining horizontal and vertical dimensions, principle structural stations and dimensions, location of center of gravity reference point, and location of the forward lug hook point.
    - b. Procedures and processes for measuring the weight and CG/moment of inertia of the NGJ subsystem and components shall be provided.

## **2.2 Programs and Schedule:**

### **2.2.1 Integrated Master Plan (IMP)**

The Offeror shall submit an IMP as Annex A to its proposal reflecting the NGJ program development effort, which encompasses the TD phase contract and the anticipated follow-on EMD phase contract. The IMP will be incorporated in the TD contract as Section J Attachment 8; however, the IMP that is incorporated into the TD contract shall only contain the TD phase contract effort reflected in the proposal IMP. The Government will consider the EMD planning provided to assess the Offeror's approach to the work remaining under the anticipated EMD effort. In general, the IMP shall provide the information as described below.

The IMP shall be event-based structured with accomplishments that tie to these events, and completion criteria for each accomplishment. The Offeror must include all events contained in the TD SOW/EMD SOO and any additional technical events, such as ones for contractor test and evaluation. In addition, the government System Engineering Plan (SEP), provided in the

government's technical library, defines examples of technical events to be included in the proposed IMP. Include entrance and exit criteria for each event. The IMP shall be developed using the "Integrated Master Plan and Integrated Master Schedule Preparation and Use Guide (Version 0.9)" as guidance. The IMP shall be created using Microsoft Project 2007.

The IMP shall provide the information as described below:

Section 1 - Narrative Section Instructions -

The Offeror shall submit a descriptive narrative that includes:

- a. Assumptions used in the creation of the IMP;
- b. Organizational structure of the proposed Contractor team, including identification of each specific organizational group and its roles/responsibilities. If subcontractors are to be utilized, identify what specific tasks will be passed to the subcontractors;
- c. Resources (e.g., staffing, facilities, manufacturing capability and GFE) that will be used and how they will be integrated in conducting the NGJ program development effort;
  - i) Provide a staffing plan that includes anticipated personnel requirements for program startup and describes the method planned to expeditiously fulfill staffing requirements and shows the staffing by month and year for each functional labor category. The staffing plan shall be traceable to the resources in the IMS, as identified in the Work and Resource Name fields. Describe how the level of current staffing within the Offeror's organization compares to the anticipated NGJ program staffing requirements, those staffing requirements that are planned to be contracted externally, and those staffing requirements that are planned to be fulfilled internally from your organization, to include the prime, principal subcontractor and critical subcontractor personnel. Also describe the roles and interrelationships of the prime, principal subcontractor and critical subcontractor personnel. Indicate anticipated post-award timeline to achieve full program staffing and approach to be utilized to avoid program delays due to staffing.
  - ii) Describe facilities required to perform engineering, test, and manufacturing activities for the entire NGJ program. Describe the processes and metrics used to perform effective supply chain management, including the transition from design to fabrications of test articles, and the transition from test to low rate initial production to full rate production. Provide a description of the planned approach for control and distribution of technical and manufacturing documentation.
- d. Definitions of the events provided in the TD SOW and EMD SOO and define any additional events;
- e. Definitions of any unique terms; and
- f. Definitions used in the IMP to describe accomplishment criteria.

Section 2 - IMP Product Section Instructions - The Offeror shall submit an IMP Product Section that is a detailed outline of the Offeror's proposed plan for executing the contract. The Offeror shall include Government decision points, including technical reviews and the Offeror's requirement for Government Furnished Equipment (GFE) and Government Furnished Information (GFI). The Offeror may provide the IMP Product Section in Microsoft Excel.

Below is a generic IMP Product Section. The Offeror may use this sample section as an aid in understanding the IMP Product Section concept.

<b>ACTIVITY NUMBER</b>	<b>EVENT ACCOMPLISHMENT CRITERIA</b>	<b>PROOF (ref)</b>	<b>CWBS</b>	<b>SOW (ref)</b>
W01	Design Review 1 (DR 1) Completed		1600	
W0101	A/V Integration requirements established		1000	
W010101	Seeker configuration constraints developed		1110	
W010102	Electromagnetic environmental effects requirements established		1110	
W0120	Acceptance of design qualification criteria		1000	
W012001	Design qualification plan delivered		1000	
W012002	Design usage finalized		1000	
W012003	Missile service use environments established		1000	
W012004	Quality assurance provisions established		1000	
W012005	Material characteristics established		1000	
W012006	Design analysis established		1000	
W012007	Damage tolerance analysis complete		1000	
W012008	Life management program established		1000	
W012009	Design criteria established		1000	
W012010	Durability test requirements established		1000	

**Section 3 - IMP Process Section Instructions** - The Offeror shall include the following information and use flowcharts and functional block diagrams for each critical process.

- a. **A listing and summary of TD and EMD processes and documents that the offeror considers critical to the success of the program.**
- b. How process implementation will be applied across the TD and EMD effort;
- c. Metrics to be used to measure the critical process performance and the associated IMP Program events in which these metrics are to be evaluated;
- e. How and to what extent described processes will be flowed down to subcontractors;
- f. Documentation or formal validation that its EVM system meets the requirements of ANSI/EIA-748B, or an implementation plan;
- g. Description of how Earned Value will be used as a tool to manage this effort and measure and control cost, schedule and technical deviations (including subcontractors); Specifically provide a process description demonstrating what will trigger management actions and management response to these metrics. The Offeror shall consider the following: manpower required to successfully manage a program of this complexity; resources; staffing plans; tools required to generate reliable and timely data; and methods to communicate this information to the Government and contractor decision makers in a timely fashion. Provide examples to illustrate this process. In addition, provide the staffing plan that demonstrates how the program will be resourced to meet the major program milestones.
- h. How the EVM system will be integrated in the overall program management strategy.

- i. Explain how the SEMP and other functional plans such as QA, Configuration Management, and Manufacturing plans will be used to execute the program.

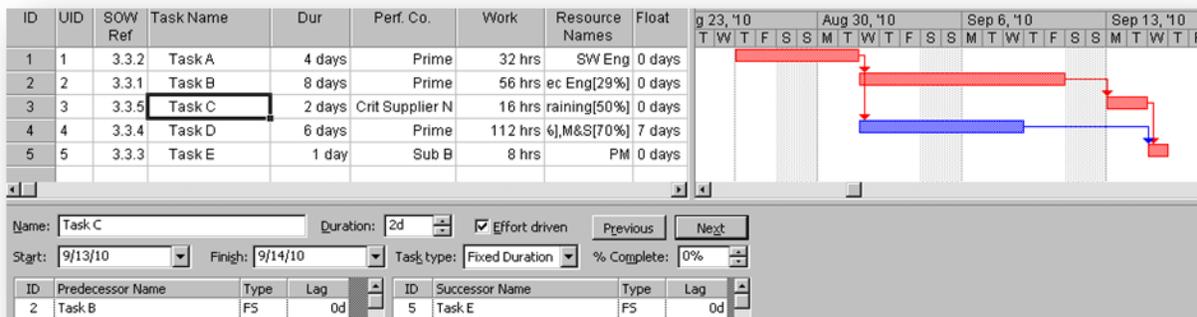
2.2.2 Integrated Master Schedule

2.2.2A Integrated Master Schedule Oral Presentation

The Offeror shall provide an Oral presentation on the IMS to include the TD and EMD phases. The presentation of the IMS shall primarily consist of a live schedule demonstration; however, the Offeror may also present overview slides per table A.3.0 prior to the live demonstration. The timeframe for the presentation and demonstration is limited to 360 minutes (not including breaks). At a minimum, the presentation and demonstration should cover the information outlined below:

- Presentation Slides:
  - Ground Rules and Assumptions used to develop IMS
  - Describe Key Hand-offs – Subcontractors, Key Suppliers, GFX
  - Summary of medium-to-high risk areas
  - Summary of Key Dates (i.e. CDR, EDM deliveries, etc)
  - Summary of the SRA Process
    - How detailed three point estimates and rationale were gathered;
    - How groupings for global estimates and rationale were determined;
    - Distributions applied; and
    - Total Number of Iterations Run.
- Live Demonstration:
  - At a minimum, view should include:
    - Columns: ID, UID, SOW Ref, Task Name, Duration, Performing Company, Work, Resource Names, and Float;
    - Gantt Chart showing relationships between tasks;
    - Split Screen showing predecessor and successors; and

Sample:



- Top level schedule
- Describe schedule construction
- Show key hand-offs
- Show how resources in IMS trace to staffing in IMP (may use additional presentation slides during live presentation to support this where necessary)

- Describe how LOE is handled within the IMS. Display all LOE work.
- At a minimum, be prepared to display and discuss driving paths to SRR, IBR, SFR, SSR, PDR, CDR, EDM deliveries, IOC.
- NOTE – The Offeror should be prepared to trace a driving path to any task, milestone or event upon request. The Offeror should also be prepared to answer questions regarding the SRA estimates (specific three points and globals) and the supporting rationale.

#### 2.2.2B Integrated Master Schedule (IMS)

The Offeror shall provide an IMS submitted electronically via Microsoft Project 2007 version in Annex B that delineates the Offeror's planned schedule for all activities, events, milestones, and critical/driving paths associated with all the TD phase efforts and the anticipated follow-on EMD phase efforts. The IMS shall be constructed in accordance with DI-MGMT-81650 and MIL-STD-881 (current version at time of solicitation). The program's critical path (longest path through program completion, excluding LOE) and driving path(s) to each IMP event (longest path to each IMP event), based on critical path analyses, shall be identified within the IMS. The proposal IMS shall be developed by logically networking (predecessor and successor logic) all discrete prime, principal subcontractor and critical subcontractor activities and milestones for the NGJ Program (TD and EMD) effort. For purposes of developing the IMS, the Offeror shall use a contract award date of 06/28/2013. All activity durations and resources must be substantiated using relevant historical data.

The Offeror shall provide a program Schedule Risk Analysis (SRA), accomplished through the application of the Monte Carlo process on each discrete task within the proposal IMS. The Offeror shall provide all assumptions and input data (estimates and detailed rationale) used for its Monte Carlo process in the schedule narrative. The Offeror shall include specific three point estimates (best case, most likely, and worst case durations) for each task on the critical/driving paths, traced for each IMP event, in the MS Project file (populated in Duration1, Duration3, and Duration2, respectively). The accompanying detailed rationale/assumptions for these estimates shall be included in the schedule narrative. For those tasks not on the critical/driving paths to each IMP event, global values shall be applied. The Offeror shall describe how global values were applied (i.e., filter/grouping used and percentages applied) and the rationale for all global edits used. The Offeror shall provide data reflecting probability values and its associated dates (e.g., SRA histograms) for all IMP events.

The Government will perform an independent assessment of the IMS and supporting data and should be able to reproduce the Offeror's SRA results using the IMS file and IMS narrative proposed.

The Offeror is expected to use realistic data and assumptions to produce a realistic IMS and provide a credible risk assessment of the schedule, which includes the Offeror's risk mitigation plan(s) for risk areas. An unrealistic assessment or failure to address risk areas may result in IMS adjustments by the Government to produce its independent IMS assessment and/or may be viewed as risk due to a lack of understanding of the requirements or the effort required to perform the work.

All additional schedule information shall be submitted within a schedule narrative provided in hardcopy and electronic format. The Offeror shall complete the IMS utilizing the instructions below:

- a. Required documentation standards apply to both prime and principal subcontractor(s), and any subcontractors required to report EVM in accordance with DFARS 252.234-7002.
- b. The level of detail in the schedule should be developed to at least Level 5 of the WBS, and go to the lowest level of tasks/activities that the effort will be managed. The Offeror shall provide an IMS to include significant external interfaces, critical items from subcontractors or other detailed schedules that depict significant and/or critical elements and GFE/GFI dependencies for the entire contractual effort in a single integrated network. The Offeror shall provide an IMS that has the capability to roll-up from the lowest manageable level to the highest summary level with complete horizontal and vertical traceability and capability to produce a calculated program critical path.
- c. The IMS shall identify proposed labor hours by functional labor category (e.g., design engineering, systems engineering, manufacturing, etc.) for each task (utilizing MS Project 'Work' and 'Resource Name' fields). The labor hours and resources proposed in the IMS shall be traceable to the staffing plan submitted in Annex A. Where subcontractor hours/resources are not included in the IMS, this shall be noted in the IMS narrative.
- d. The Offeror shall include a narrative on the Basis and Assumptions of IMS, outlining all program milestones/IMP events and documenting all major schedule assumptions that were utilized in the development of the plan. The Offeror shall identify moderate-to-high risk areas and provide ground rules and assumptions as well as rationale for durations of activities with moderate-to-high technical or schedule risk, including but not limited to the following areas: prototype demonstration events, design tasks for each technical baseline, fabrication, calibration and delivery of EDM units, and alignment with platform integration development and test schedules. All additional schedule information shall be submitted within a schedule narrative provided in hardcopy and electronic format.
- e. The Offeror shall develop its IMS within the following constraints:
  - i. The Offeror shall propose a single numbering system that ties all activities in the network schedule to the events in the proposal IMP.
  - ii. The Offeror shall use a calendar consistent with the company's work schedule. A listing of company holidays and non-working days, for each year of the proposed plan, should also be included in the schedule narrative.
  - iii. The Offeror shall identify each activity in the schedule with the appropriate organizational (IPT) or functional code in the MS Project Text1 field). Ensure the organizational or functional code is aligned with the SEP.
  - iv. The schedule file(s) submitted electronically shall contain the following data, as a minimum for each event, activity, and milestone in the proposal IMS:
    - Responsible CAM - (if available)
    - Control Account Number - (if available)
    - Unique ID
    - IMP Reference/Code (Text3 field)
    - TD and EMD Phase Reference (Text6 field)
    - Name
    - Start
    - Finish

- Duration (most likely) (use of elapsed days is only permitted for CDRLs)
  - Total Slack
  - Predecessors
  - Successors
  - Constraint Type (minimal constraints should be used)
  - Constraint Date
  - Organizational or Functional Code (Text1 field)
  - Level of Effort tasks (if applicable) (Text4 field)
  - CWBS (Text10 field)
  - SOW Reference (Text5 field)
  - Resource Name (functional labor category)
  - Work (labor hours)
  - Performing Company (Text11 field)
- \* additional fields may be required

- f. The Offeror shall identify any customized fields used in the Microsoft Project schedule file and address their applicability in the schedule narrative. The Offeror must also provide tracking to the text fields used if they do not correspond to the assigned text fields as identified above.
- g. If Level of Effort (LOE) tasks are included within the IMS, the Offeror shall ensure that they are clearly labeled and do not drive discrete work. LOE tasks shall not appear on the critical or driving paths.
- h. The following Microsoft Project fields should only contain data associated with the SRA: Duration10, Number1, Number3, Number4, Flag1, Cost10, Text8, Text9, Text27, Text28, Text29, Text30, Finish8, Finish9, and Finish10.
- i. Relationships with excessive lead or lag time should be avoided in the IMS submittal. If relationships with large lead or lag times (**i.e., greater than 5 days (working or elapsed) or percentages**) or if any of the logic ties associated with the driving/critical paths have lead/lag time cannot be avoided, the Offeror shall explain the need for each lead/lag in the schedule narrative and in the MS Project Notes field of the successor task/milestone.
- j. Any activity with duration greater than 125 work days should be divided into activities with smaller durations or, where this does not make sense, the Offeror shall explain the duration within the schedule narrative and MS Project Notes field.
- k. The durations provided by the Offeror for each task in the network schedule shall represent most likely durations.
- l. The Offeror shall let the logic determine the network and minimize the use of constraints. Constraints (other than “as soon as possible”) and directed dates and rationale supporting the need for each constrained/directed date in the schedule shall be included in the schedule narrative. Each constraint other than “ASAP” shall be justified separately in the schedule

narrative and in the MS Project Notes field.

- m. The Offeror's schedule narrative shall describe its current or proposed schedule management system and how it will be used to plan, coordinate, integrate, control and manage the program schedule, including the plan for electronic data transfer of schedule information to the Government.
- n. Where the Offeror must represent Government working time, this time shall be represented using one (and only one) of the following methods as approved by the Offeror's System Description/Processes:
  - 1) Use of a Schedule Visibility Task (SVT). A discrete task with no assigned work hours, resources, budget or Cost Account reference.
    - a. It shall be easy to identify the task by the use of a distinguishable character included within the task name such as: SVT (Schedule Visibility Task), TA (Tracking Activity), etc. and by clearly identifying the SVT by use of a customized field.
    - b. The task shall not be part of the Program Management Baseline (PMB).

NOTE – The SVT task method is the desired method for tracking non-budgeted tasks.

- 2) A start and completion milestone linked using a Finish to Start (FS) lag. For example:
  - a. Government Test Begins (milestone) linked  
FS + 40d (Govt conducts test) to
  - b. Govt Test Complete (milestone)

Offeror tasking necessary for the Government start milestone shall be linked as predecessors; subsequent tasking that is reliant on the completion of the Government milestone shall be linked as successors. The activity names of the start and completion milestone should be descriptive of the work that will be occurring within the lag.

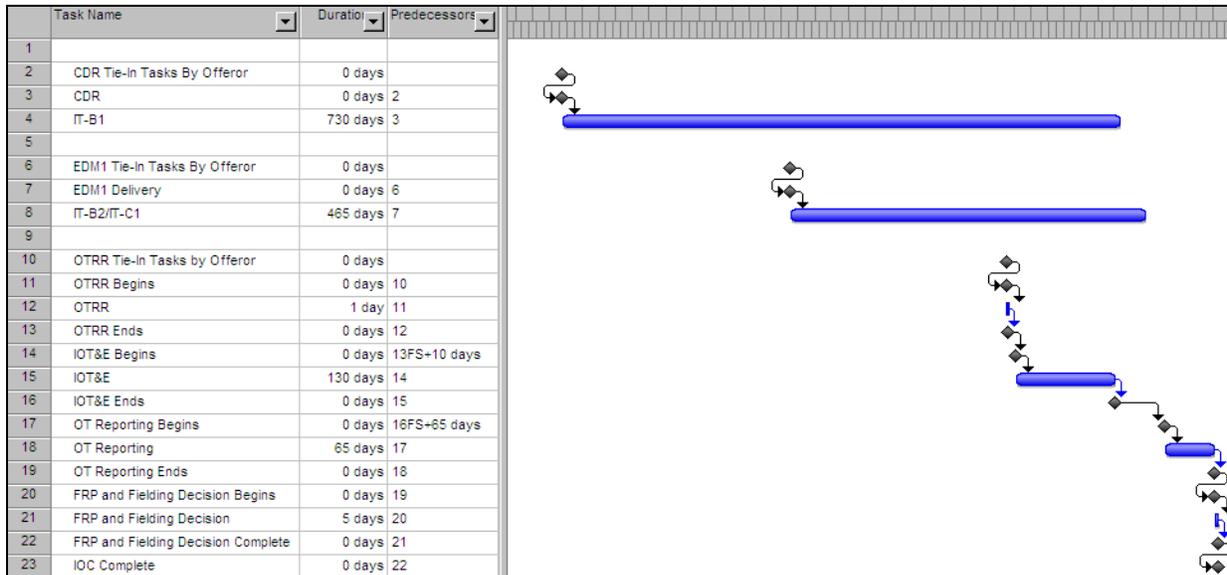
NOTE – this is not applicable for the actual conduct of SETR tasks (e.g., Conduct CDR, SVR, etc.), which shall be represented in the IMS as actual tasking.

- o. The Offeror shall incorporate the following assumptions in its IMS:
  - 1) For CDRLs with Approval Code "A" in block 8 of the DD form 1423-1, the Offeror shall represent Government review and approval time (using work days or elapsed days as appropriate), specified in Block 16, with an SVT task or lag tied using a Finish to Start relationship from a 'Start Government CDRL Review' milestone to a 'Government CDRL Review Complete' milestone. The Start milestone shall be driven by the Contractor's CDRL submittal; subsequent tasks that rely on the contents of the CDRL shall be linked to the 'Government CDRL Review Complete.' Note: The Offeror shall use a naming convention that clearly describes the CDRL being reviewed by the Government. Where a review time is not specified in Block 16, assume there will be a 30 calendar day review time.

- 2) Offeror shall outline how all Technology Readiness Level (TRL) demonstrations and events will be completed in a timely manner to complete TRA reporting for MS B. The Government expects TRA reporting to take 3-4 months prior to MS B. The Offeror shall substantiate any time period proposed of less than 3 month prior to MS B.
- 3) The schedule is in the Systems Engineering Plan which is provided as GFI. The Government length test activities are described in the EMD Statement of Objectives.
- 4) The Offeror shall represent the Government requirements for Initial Operational Test and Evaluation preparation, execution, and reporting in its IMS to ensure its depiction of achieving IOC accounts for these statutory requirements. All schedules should conclude with following:
  - CDR tie in task/milestone, as determined by the Offeror, linked FS with IT-B1 testing which will take 730 working days.
    - The offeror shall represent all detailed tasks necessary to accomplish the testing including associated logic ties.
  - EDM1 Delivery tie in task/milestone, as determined by the Offeror, linked FS with IT-B2/IT-C1 testing which will take 465 working days.
    - The offeror shall represent all detailed tasks necessary to accomplish the testing including associated logic ties.
  - OTRR tie in task/milestone, as determined by the Offeror, linked to
  - OTRR Begins linked
    - FS + 1 work day lag or 1 day SVT task to
  - OTRR Complete linked
    - FS + 10 work days lag or 10 day SVT task to
  - IOT&E Begins linked
    - FS + 130 work days lag or 130 day SVT task to
  - IOT&E Complete linked FS to
  - OT Reporting Begins linked
    - FS + 65 work days lag or 65 day SVT task to
  - OT Reporting Complete linked FS to
  - FRP and Fielding Decision Begins linked
    - FS + 5 work days lag or 5 day SVT task linked FS to
  - FRP and Fielding Decision Complete linked FS to
  - IOC Complete

\*\*All lags and tasks listed are working days, and all work is in serial.\*\*

\*\*Schedule is notional and not to scale. Duration is represented as “working days”\*\*



### 2.2.3 Technology Roadmap

The Offeror shall provide a Technology Maturation Plan (TMP) for candidate Critical Technology Element (CTE)s. The Offeror shall provide as Annex K a Technology Work Breakdown Structure (TWBS) in accordance with the template provided as a Section L Attachment 1. The Offeror shall document in each TMP the specific details and success criteria of all proposed prototype demonstrations. The Offeror shall address whether flight demonstrations are proposed as part of its TRA activities. The Offeror shall document in each TMP how each candidate CTE will be integrated at the system/subsystem level and demonstrated in the intended relevant environment to achieve TRL 6 in time to complete TRA reporting for MS B. The Offeror shall define and document in each TMP what constitutes a high-fidelity (form, fit, function) relevant environment with stressing mission relatable scenarios. The Offeror shall document in each TMP an implementation plan for mature fallback technologies as options, should the candidate CTE fail to mature as planned. The TMP for each identified candidate CTE shall contain the detailed developmental steps, required prototypes, and associated test events and demonstrations required. The Offeror shall use the hardware and software TRL definitions provided in NAVAIRINST 3910.1 of 21 Oct 2009 to define the criteria for all required demonstrations. For each NGJ candidate CTE, the Offeror shall describe the current performance, the performance required to meet the NGJ SPS, and each activity that is proposed to improve the performance, along with the activity's expected results. The Offeror shall identify TMP risks and burn down plan to achieve TRL 6 in time to complete TRA reporting for MS B.

The Offeror shall compare the expected performance of each prototype as required in the TD SOW to the Offeror's NGJ system design allocations and document any remaining engineering effort required post-TD phase to enable the NGJ system to meet the NGJ SPS, for all components and subsystems, not just those proposed as candidate CTEs. The Offeror shall explain how it is ensuring that only engineering effort, not technology development effort, will be planned or required post-TD phase.

The Offeror shall describe the approach to comparing prototyping demonstration results to the PDR allocated baseline, and reconciling differences between the prototype results and the NGJ system design.

#### 2.2.4 Systems Engineering Management Plan

The Offeror shall prepare a preliminary SEMP per the SOW, SEP, and Section J Exhibit A. The SEMP shall be included in the proposal as Annex C and will delineate all elements of the SE process and describe the integrated technical approach to the entire program development effort, including the TD and EMD phases. The SEMP may be formatted as desired by the Offeror but must contain the Specification Tree through the Functional Baseline, Technical Performance Measures, how the Offeror intends to integrate with the Government's requirements management process, Interface Control Working Group and the EA-18G Government / Contractor Teams, and the information described in the SOW, SEP, and Section J Exhibit A.

#### 2.2.5 Anti Tamper Plan

The Offeror shall provide a preliminary AT Plan in Annex D, to the level known and understood during the proposal preparation phase that addresses protection of Critical Program Information (CPI) and Critical Technologies (CT) from reverse engineering in the cases of unplanned loss and international sale. The Offeror shall identify potential CPI and CT items that will require protection from exploitation. A template for the AT Plan is provided as part of this RFP package in Section L Attachment 2. In addition to the information required in the template, the AT Plan may contain the following:

- a) Contractor's proposed NGJ AT Architecture
- b) NGJ AT system integration performance requirements
- c) CPI and CT for proposed architecture and locations of CPI and CT in the architecture
- d) TRLs for the proposed AT hardware techniques.
- e) Attack tree analysis
- f) Potential AT solutions for the NGJ
- g) Contractor-based advanced development, special program engineering, Intellectual Property (IP) or Independent Research and Development (IRAD) technology (this includes any hardware, software, and AT security techniques etc) to be integrated into any portion of the AT Architecture. Ensure any additional cost or schedule associated with the effort is included in the cost volume and/or the IMS.
- h) Plan to ensure security of AT protected hardware and software throughout the life cycle of the NGJ system including methodology, cost, and approach including how AT-related hardware and software will be protected from inadvertent disclosure through training, technical, instructions, orders, manuals, or schematics.
- i) Description of how the AT implementation will impact maintenance at the Organizational Level, the Intermediate Level, and Depot level.

#### 2.2.6 GFP/GFE/GFF/GFI

The Offeror shall describe its approach towards minimizing the amount of GFP/GFE/GFF/GFI required to perform the TD contract. Provide a GFP/GFE/GFF/GFI Lists for the TD phase in the oral presentation and Annex E that may be incorporated into the contract. The contents of Annex E shall be identical to Cost Attachment 7. Provide a separate list in the Oral presentation in table format to describe the GFP/GFE/GFF/GFI required for the EMD phase. Describe the risk associated with each Government Furnished item should the Government not be able to provide the item or provide it on time. If in the course of developing an approach that minimizes Government Furnished items, the Offeror believes that it is in the best interest of the Government to provide other item(s) not on the proposed list, then the Offeror should propose these additional items, justifying that the benefit to the Government outweighs the risk to the Government.

#### 2.2.7 Risk and Opportunity Management Processes

The Offeror shall describe the risk and opportunity management processes that will be implemented as part of the entire NGJ program development effort. The Offeror shall show that the proposed risk and opportunity management processes meets the requirements defined in the SOW. The Offeror shall describe how risks and opportunities are identified, assessed, documented, incorporation plans prepared, and tracked in order to proactively manage risk and opportunities for the program. The Offeror shall describe how risk identification and assessment considers risk across all domains, including but not limited to program management, contracting, engineering, test and evaluation, logistics, and security. The Offeror shall indicate how resource requirements are integrated with earned value management systems, specifically to include a description of utilizing management reserve to perform risk mitigation activities. The Offeror shall identify preliminary risks, rated as medium or high, and define a mitigation plan to reduce risks to an acceptable level. The Offeror shall describe how these risk items relate to the critical path, system performance, schedule, and program cost. At a minimum, the Offeror shall include the risks of:

- a. Achieving the Size, Weight, and Power requirements for the NGJ System
- b. Achieving EIRP, Frequency and Spatial coverage.
- c. Design and implementation of reliability, availability, and maintainability requirements
- d. External dependencies not under control of the Offeror that could have a serious impact on the ability to deliver the capabilities within the cost and schedule of the proposal. For each of these external dependencies, identify the responsible organization and discuss at least one possible work-around if the external dependency is late or does not meet the prescribed need.

#### 2.2.8 Master Test Plan

The Offeror shall provide a draft master test plan per the SOW/SOO and Section J Exhibit A and include as Annex F. This plan shall provide a high level description of the test strategy for integration, qualification and performance testing to be conducted during the entire NGJ program development effort, including the TD and EMD phases. The Offeror shall describe the integration of test planning and verifiability of requirements with the systems engineering process. The draft plan shall provide details regarding prototype integration, safety of flight qualification testing, and contractor performance testing to be conducted prior to the concept demonstration test event. The master test plan shall provide a high level description of the subsequent aeromechanical/airworthiness testing and formal qualification and performance testing that will be conducted under the EMD effort, to include descriptions of assumptions

regarding quantity / scope of range and performance testing. The Offeror may identify potential efficiencies or necessary changes in the EMD test program and the EMD SOO schedule, and shall provide rationale.

The Offeror shall describe the plan for providing an airworthiness basis to receive a flight clearance for first flight and build-up through envelope expansion during the flight test program in accordance with MIL-HDBK-516B, Airworthiness Certification Criteria. The Offeror shall describe their use of flight clearances in accordance with NAVAIRINST 13034.1D. The flight clearance plan should include phasing of flight clearance releases as well as the process for requesting clearances.

The Offeror shall describe the design efforts for providing instrumented, mass-model NGJ shapes that will be carried for air vehicle flight test. The instrumented mass-model shapes will satisfy the data requirements for flutter, noise and vibration, loads, and flying qualities.

#### 2.2.9 Government Use of Technical Data and Computer Software

The Offeror shall describe the extent to which the rights in technical data (TD), computer software (CS), computer software documentation (CSD), and inventions/patents offered to the Government for the Technology Development Design Phase will ensure the NGJ system will have unimpeded, innovative, and cost effective production, operation, maintenance, and upgrade of the NGJ system throughout its life cycle; allow for open and competitive procurement of NGJ system enhancements; and permit the transfer of the NGJ system non-proprietary object code and source code to other contractors for use on other systems or platforms.

The Offeror shall provide the following information related to Rights in Background Inventions:

- a) The Offeror shall attach to its offer a list, entitled “Background Inventions— Identification and Licensing” (the BIIL List), providing information concerning all background inventions. A “background invention” is any invention, other than a subject invention, that is covered by any patent or pending patent application in which the Offeror (including its sub-Offerors or suppliers, or potential sub-Offerors or suppliers, at any tier) (1) has any right, title, or interest; and (2) proposes to incorporate into any items, components, or processes (ICP) to be developed or delivered, or that will be described or disclosed in any TD, CS, or CSD to be developed or delivered, under the resulting contract. For each background invention, the BIIL List shall identify:
  - (1) the invention, by serial number, title, and date of the patent application or issued patent;
  - (2) the ICP, TD, CS, and CSD that will incorporate or disclose the invention;
  - (3) the nature of the Offeror's right, title, or interest in the invention; and
  - (4) the amount, if any, which the Offeror intends to charge the Government for royalties with respect to the invention.

The Offeror shall submit the BIIL List as an attachment to its offer, dated and signed by an official authorized to contractually obligate the Offeror. If there is no information to be included in the BIIL List, the Offeror shall submit the list and enter “None” as the body of the list. If the Offeror is awarded a contract, the BIIL List shall be attached to the contract.

- b) The Offeror shall attach to its offer a list, entitled “Third-Party Patent Rights – Identification and Licensing” (the 3PRIL List), providing information concerning all third-party patent rights for which it intends to pay royalties and the amount of the royalties in order to perform under the contract. The Offeror shall submit the 3PRIL List as an attachment to its offer, dated and signed by an official authorized to contractually obligate the Offeror. If there is no information to be included in the 3PRIL List, the Offeror shall submit the list and enter “None” as the body of the list. If the Offeror is awarded a contract, the 3PRIL List shall be attached to the contract.

#### 2.2.10 Software Development Plan (software engineering management approach)

The Offeror shall submit a preliminary version of their Software Development Plan (SDP) as Annex G per the SOW and Section J Exhibit A, addressing the entire program development effort, including the TD and EMD phases. The Offeror shall also submit, as a part of their proposal, an SDP Rationale which describes why their specific approach is appropriate for the NGJ system. The SDP measurement plan shall be consistent with the reporting requirements identified in– Cost and Software Data Reporting Plan.

#### 2.2.11 CMMI

The offeror shall describe the processes proposed for NGJ system development. The Offeror shall map these proposed processes to the Software Engineering Institute’s Capability Maturity Model Integration (CMMI) version 1.3 maturity level 3 staged representation and describe the degree to which the proposed processes are equivalent to capability level 3 defined processes. A similar description shall be supplied for all subcontractors with software or firmware development tasking related to the Offeror’s proposal. The Offeror shall also address the following areas:

- a) Detail the quality assurance processes/procedures and the methodology to be used for identifying and tracking software and firmware defects.
- b) Describe how the Offeror manages integration of software and firmware from team members and subcontractors, especially if their equivalent maturity level is not equal to or higher than the Offeror’s.

Offeror shall also describe any previous equivalent CMMI level 3 and equivalent model-based process maturity appraisals performed.

- a) Identify the agency/company that performed the Evaluation(s) and provide a point of contact’s name, telephone number, and e-mail address.
- b) Identify the date that the evaluation was obtained and the level earned.
- c) Identify the projects being performed at the level of evaluation and demonstrate the degree of relevancy that those projects have to the NGJ development
- d) If a CMMI Level 3 certification was not obtained and equivalency cannot be demonstrated for the Offeror or any subcontractor with software or firmware development tasking, provide a Risk Mitigation Plan to account for the risk(s) associated with a maturity level that is less than SEI CMMI Level 3 staged representation. As a minimum provide the following:

1. Identify those process areas that failed to meet or exceed an SEI CMMI Level 3 or equivalent rating.
2. A schedule and plan that describes how the weaknesses that have prevented SEI CMMI Level 3 or equivalent capability will be corrected to support NGJ development.

#### 2.2.12 Affordability Management

The Offeror shall describe the detailed approach to controlling cost and schedule within affordability targets during the execution of the contract, including the following areas:

- a) A description of how the Cost as an Independent Variable (CAIV) process will be used to ensure the development, production, support, and operation of an affordable and fully functional product.
- b) How a Life Cycle Cost Estimate (LCCE) will be created and maintained that includes all prime contractor and subcontractor costs for development, production, fielding, sustainment, and disposal.
- c) A plan for addressing Schedule/Cost Status for each IPT and /or Organizational Category during weekly status meetings. The contractor shall include their planned, structured approach to presenting this data during the status meetings. Include at a minimum: examples of templates, spreadsheets, or graphs that show schedule status (planned starts/finishes verse actual starts/finishes, and delinquent tasks) across each IPT and WBS element; the proposed IPT/Organizational staffing charts that are representative of the proposed IMS resource loading; examples of how weekly cost variance will be utilized as a leading indicator assessment of performance to the PMB. Also include a discussion on how the presented data will be used to daily manage and execute the scope of work.

#### 2.2.13 Subcontract Management

- a) Offerors are required to (1) provide a copy of all teaming arrangements, and (2) explain why the teaming arrangements do not inhibit competition. The documentation must include, but is not limited to: structure of the teaming arrangement, responsibilities, and liabilities; financial responsibility; managerial responsibility and accountability; and applicable legal documents.
- b) The Offeror shall submit a preliminary version of the Subcontract Management Plan as Annex J per the SOW and Section J Exhibit A.

#### 2.2.14 Small Business Considerations

- a) Small Business (SB) Utilization Strategy: All Offerors (Large and Small Businesses) shall address their strategies for utilizing SB Concerns in the performance of this contract, whether as a joint venture, teaming arrangement or subcontractor. SB Offerors may meet this requirement using work they perform themselves. For purposes of this solicitation, the term SB Concern shall also include the subcategories of Small Disadvantaged Business, Women-Owned SB, HUBZone SB, Veteran-Owned SB, and Service-Disabled Veteran-Owned SB. Each subcategory of SB shall be addressed. This strategy is separate from, but shall be consistent with, the SB Subcontracting Plan, if such a Plan is required. In describing its SB Utilization Strategy for this solicitation, the

Offeror shall, as applicable:

- Describe its approach to identifying SB Concerns;
  - Describe the extent of participation of SB Concerns on this contract, including a detailed description of the supplies and services for each SB Concern subcategory, and the complexity and variety of the work SB Concerns are to perform. For each SB Concern specifically identified in the proposal, provide the SB Concern's CAGE Code, or, if the SB Concern is not registered in the Central Contractor Registration, as a minimum provide evidence of self-certification as a SB Concern. Where possible, provide documentation regarding enforceable commitments to utilize each SB Concern;
  - Identify what processes have been implemented to correct past inability to meet proposed goals, and any validated improvements;
  - Provide targets, expressed as dollars and percentages of total contract values and percentages of total subcontract values for SB Concerns and each subcategory of SB. Targets of subcontractors must be listed separately;
  - Describe its specific efforts to ensure the resulting contract meets or exceeds proposed goals. These efforts shall include, but are not limited to: sponsoring program specific outreach events and industry conferences, establishing Mentor-Protégé relationships and market research using websites such as the NAVAIR Office of Small Business Programs website (<http://www.navair.navy.mil/osbp>) to locate small business concerns; and
  - Demonstrate (Large Business only) that its SB Utilization Strategy is consistent with its SB Subcontracting Plan. If the Offeror is a participant in the DoD Comprehensive Subcontracting Test Program specified in DFARS 219.7, the Offeror shall describe how SB participation on this contract will contribute to its overall Comprehensive Subcontracting Plan goals.
- b) SB Subcontracting Plans: The Large Business Offeror shall provide its SB Subcontracting Plan conforming to the requirements of FAR 19.7 and DFARS 219.7 as Annex I. The Subcontracting Plan (consisting of SB Subcontracting Plan template and individual goals as defined above) of the successful Offeror(s) will be reviewed and approved by the PCO prior to contract award. See FAR 19.702(a)(1) Statutory Requirements, regarding failure of the apparent successful Offeror to negotiate and submit a Subcontracting Plan acceptable to the Contracting Officer. The successful Offeror's approved Subcontracting Plan will be incorporated into the resultant contract.
- c) SBIR Program: All Offerors (Large and Small Businesses) shall describe any plans they may have for use of the SB Innovation Research (SBIR) and SB Technology Transfer (STTR) Programs to insert new technologies into the proposed end item.

### **3.0 VOLUME 3 - PAST PERFORMANCE**

**Note: This volume shall not contain any reference to cost or price aspects of the offer**

### 3.1 General

The Section L attachments that the Offeror shall utilize to provide past performance information as required for this volume are as follows:

Attachment (3)	Past Performance Questionnaire
Attachment (4)	Summary of Relevant Past Performance Contract Data

The Offeror shall identify recent relevant contracts on similar programs that provide evidence of its organization's (including the Offeror's principal and critical subcontractors, and JV/SLE team members) ability to perform the effort required for this program. Past Performance information provided should be related to similar programs/contracts performed in the same division, or cost center (e.g. the same CAGE code) in which the Offeror proposes to perform this effort. Additionally, Past Performance information shall be related to contracts, or portions of a contract whose performance is within five years from the proposal due date. Offerors shall provide information concerning any show-cause notices, cure notices, or termination for default on any contract. As much as possible, maintain consistency between the descriptions of the Offeror's corporate experience provided in Corporate Experience Volume 4, and the descriptions provided in this volume.

For all contracts identified which do not have CPARs, the Offeror will forward a copy of Attachment (3) Past Performance Questionnaire to that contract customer's PCO, Administrative Contracting Officer and Program Manager or commercial equivalents. Please forward all questionnaires within two weeks from the RFP release date to allow adequate time for the recipient to respond. (Note that the RFP number should be removed from the Questionnaire header before forwarding them.) The Offeror shall include instructions for the customers to send completed questionnaires within two weeks of its receipt via e-mail to Mr. Kyle Richmond, PCO, at [Kyle.Richmond@navy.mil](mailto:Kyle.Richmond@navy.mil). The Offeror shall not conduct follow-up actions with regard to this questionnaire, other than to confirm receipt by the recipient. The Government may contact those customers identified by the Offeror to obtain follow-up Past Performance Information. The Government may send additional questionnaires as necessary.

Offerors shall provide an authorization letter with written consent, in the Past Performance Volume, from each participating principal and critical subcontractors, and JV/SLE team members to authorize the Government to coordinate their Past Performance issue(s) with the Prime Offeror for the solicitation. If Offerors do not submit such written consent, then the Government will address any past performance issues directly with the subcontractor, or JV/SLE team member and the Offeror will forfeit the opportunity to participate in any related discussions. Consequently, for any subcontractors or JV/SLE team members that do not provide such written consent, provide a point of contact (name, address, phone number, and email address) with which the Government may coordinate these issues and obtain any responses as needed.

Offerors are reminded that both independent data and data provided by the Offerors in any volume of their proposals may be used to evaluate past performance. The Government reserves

the right to use Past Performance information obtained from sources other than those identified by the Offeror. This information will be used for the evaluation of past contractor performance.

### 3.2 Relevant Contract Data

The burden of providing thorough and complete past performance and systemic improvement information remains with the Offeror.

In this volume, identify contracts, or portions of a contract, whose performance is within five years of this proposal due date and contain efforts similar to those efforts (e.g., end product or service, contract tasks, contract type, contract dollar value, etc.) required by this solicitation for the Offeror, the major subcontractors, critical subcontractors, and JV/SLE team members. In general, recent performance will be considered more relevant than older performance. Commercial contracts may be included. List the contracts from the most relevant to the least relevant. These contracts should include the relevant contracts for the Prime and the major subcontractors. If the Offeror is proposing as a JV/SLE, the Offeror should also provide the relevant contracts for the JV/SLE and for each member of the JV/SLE. Contracts detailed in this volume should be the same contracts/efforts identified in the Corporate Experience Volume 4.

Provide the requested Past Performance information in an Excel Spreadsheet in the format depicted below, and as provided in Attachment 4 Summary of Relevant Past Performance Contract Data. Attachment 4 includes tabs for each contract and instructions to complete the form. Add additional tabs as necessary. Provide the completed Attachment 4 electronically in a single spreadsheet, as a separate file in the Past Performance Volume 3 CD-ROM and as part of the Offeror's paper and paperless Past Performance Volume 3 proposal. Please note that this form is a summary of your relevant contract data. All detailed information and comparative analysis of the past performance references to the solicitation requirements shall be provided in part 3.3 of the Offeror's proposal. Per the Executive Summary instructions, contract reference numbers used in this volume shall correspond to the contract reference numbers used in the Past Performance Volume 3 (e.g. P1, P2, S1, S2, etc.).

#### Section L Attachment 4 Summary of Relevant Past Performance Contract Data Form

Summary of Relevant Contract Data for the Next Generation Jammer Program		
1	Contractor Name (Prime, Principal Subcontractor, or JV/SLE Team Member)	
2	Contract Reference (e.g., P1, P2, T1, T2, S1, S2, etc.)	
3	Title of contract	
4	Contract number and Type	
4a	Delivery/Task Order Number (if applicable)	
5	Subcontract Number/PO Number (If acting as subcontractor on this past contract; For the prime contract identified in 4 above, identify the contracted parties.)	

6	Procuring agency (related to the prime contract)	
7	Description of product or service	
8	Period of performance	
9	Cage Code: XXXXX	
10	DUNS #: XX-XXX-XXXX	
11	Dollar value of contract	
12	Acquisition Phase(s) of Contract	
13	Identify if the Offeror acted as the Prime or Subcontractor on this past contract.	
14	Identify the date(s) of the completed CPARs in PPIRS. (Also, complete the below POC information.)	
15	If No CPARs are in PPIRS, identify the date past performance questionnaires were sent. (Also, complete the below POC information)	
16	Points of Contact who can validate performance on above listed contract	
16a	Gov't PCO or Commercial Purchasing Agent name:	phone/email:
16b	Gov't ACO name:	phone/email:
16c	Gov't PM or Commercial PM name:	phone/email:
16d	Other (name & title):	phone/email:
17	Contractor's Relevancy Assessment. (See Instructions)	

Note 1: Relevancy

Provide a concise assessment of the degree of relevancy that each past performance referenced contract has to the solicitation, identifying tasks and/or aspects of the effort undertaken on the contract that are relevant to the program. Include your assessment of the relevancy of the contract in terms of one of the following ratings: Very Relevant (VR) or Somewhat Relevant (SR), where:

**Very Relevant (VR)** – Present/past efforts involved essentially the same scope and magnitude of effort and complexities this solicitation requires.

**Somewhat Relevant (SR)** - Present/past efforts involved some of the scope and magnitude of effort and complexities this solicitation requires.

The contract relevancy assessment should be relative to the prime's, principal or critical subcontractor's or JV/SLE team member's proposed role/responsibility versus relative to the

whole solicitation. For example, a subcontractor who is being proposed to perform only software has a past contract whose total work is software. Even though the software effort is only 10% of the solicitation effort, it relates to 100% of the subcontractor proposed effort for this proposal and therefore is considered Very Relevant vice Somewhat Relevant.

The following conditions result in a Not Relevant assessment:

- Contracts from an entity that does not have a defined proposed role and responsibility will be assessed as Not Relevant.
- Contracts from a different physical location (e.g., with different CAGE code/DUNS) than the entity proposed in the roles and responsibility table will be assessed as Not Relevant. Contracts that involve little to none of the scope, magnitude of effort and/or complexities required by this solicitation will be assessed as Not Relevant.
- Contracts or those portions of the contract whose performance is older than 5 year from the proposal due date will be assessed as Not Relevant.

Offerors are advised that assessment of relevancy will be used to determine if a contract will be considered in the evaluation. Contracts assessed by the Government to involve little to none of the scope, magnitude of effort and/ or complexities that this solicitation requires, will be assessed as Not Relevant. Not Relevant contracts will not be considered in the Past Performance assessment.

### 3.3 Evaluation

Provide all the information identified below organized by contract.

For each contract identified, provide contract data, relevancy, past performance information and systemic improvement information as described below. As this information is presented in the proposal, demonstrate the relevancy of your, and if applicable, your principal or critical subcontractors' and JV/SLE team members' past performance and systemic improvements with respect to the solicitation requirements. For each past performance problem identified, describe the status of the systemic improvement efforts and, where applicable, demonstrate the impact that the systemic improvement effort had on resolving the problem such that it would not reoccur.

For any contracts referenced where the Offeror is aware of problems, the Offeror should describe those problems in section 3.3.2. In the event the problems are or have been corrected, discuss and demonstrate the resolution in section 3.3.3. For each contract identified in paragraph 3.2, provide the following information:

**3.3.1. Relevancy:** Offerors are required to explain what aspects of the contract are deemed relevant to the proposed program. Specifically, identify key or critical tasks of the Offerors past performance reference. Provide a comparative analysis to the solicitation requirements that would facilitate the Government's assessment of the relevancy of positive and negative past performance that may be found. This comparative analysis should show how the past performance contract reference relates to the solicitation with regard to technical complexity; task, process and/or product similarity; scope of effort; type of work; skills required;

administrative and/or physical place of performance (CAGE/DUNS codes); and contract type and dollar value.

In the event an Offeror proposes past performance references for entities within the same company, but with different CAGE codes, an explanation must be provided as to why the past performance from another place of performance is relevant to the Offeror's proposed approach. A difference with respect to CAGE code could be because contract actual performance (the entity who performed the effort) was different than administrative performance (the entity who was awarded the contract).

In the comparative analysis, reference specific tasks from previous contracts SOW/SOO (identify paragraph – page references) to clearly identify how past tasks are similar to this solicitation. Offerors shall submit portions of the previous contract SOW/PWS documents, which relate to the NGJ requirements, as an Annex L.

**3.3.2. Past Performance Information:** For each contract identified in paragraph 3.2, provide a brief description of performance in delivering quality products in each of the following areas: 1) meeting technical requirements, i.e., the quality of your technical performance, e.g., performing analysis, design, testing, etc., 2) meeting schedule requirements, i.e., schedule performance, e.g., on time or late delivery, modification of original schedules and reasons for any changes, etc., 3) controlling contract cost, i.e., cost performance and 4) managing the contracted effort, i.e., program management, e.g., cooperation with customer, subcontract management. Include in these descriptions any metrics that could demonstrate the current level of performance being obtained. Also describe past problems, including when they occurred, what the circumstances were surrounding the situation, and what the consequences were as a result of the problem.

**3.3.3 Demonstrated Systemic Improvement:** Identify those systemic improvement actions taken to resolve any past problems identified in 3.3.2. Provide the records of such results and indicate where they are documented, preferably in Government record systems. Describe the techniques, elements, and tools used to correct problems on the contract and, if applicable, how these techniques, elements, and tools may be used during this program. Provide quantifiable evidence or metrics that substantiate or demonstrate claims of improvement and to demonstrate that the past problem will not occur on this program.

It is incumbent upon the Offeror to explain the relevance of the data provided and substantiate that improvements from past performance problems are being made. The Government does not assume the duty to search for data to cure the problems it finds in the information provided by the Offeror. Consideration for discounting problems may be given when those problems are addressed through demonstrated systemic improvement. Demonstrated Systemic Improvement may be indicated by information as it relates to preventing recurrence of past problems, including: identification of the root cause of problem, corrective action plan that systemically addresses the past problem, how and when the plan was implemented, documented timeframe to demonstrated corrective action was implemented and successful; and performance data, preferably through Government records,

to show performance improvements demonstrated systemic improvement. Demonstrate that the problem(s) will not reoccur or the extent and the likelihood that reoccurrence is reduced.

**3.3.4 Earned Value (If applicable):** Provide earned value data generated for that project, such as the latest or final Contract Performance Report Format I. Identify if there were any Over Target Baselines or restructures, (when occurred and the dollar value) and how performance data was impacted. For CPAR data, explain significant differences between earned value measure and CPAR rating, e.g., Exceptional CPAR rating under Schedule and SPI of 0.85.

**3.3.5 Small Business Concerns (if applicable):** Small Business Utilization: The Large Business Offeror shall provide copies of the final or most recent SF 294s/Individual Subcontracting Reports (ISRs) for the three most relevant government contracts provided in the Past Performance section of their proposal. The Small Business Offeror may provide this information in a format substantially the same as the ISR. If the Offeror is a participant in the DoD Comprehensive Subcontracting Test Program, they shall provide copies of DCMA's most recent Review of Contractor's Comprehensive Subcontracting Program (DCMA Form 640), and three final or most recent SF 295s/Summary Subcontracting Reports (SSRs), and explain how the results shown in these documents demonstrate the realism of their proposed SB Utilization Strategy.

If applicable, note whether the contract met or exceeded small business, small disadvantaged business, HUBZone small business, veteran-owned small business, service-disabled veteran-owned small business, and women-owned small business utilization and subcontracting goals. All Offerors providing this information must explain how this information translates to reasonableness of their proposed SB Utilization Strategy targets in the Technical Volume.

#### **4.0 VOLUME 4 – CORPORATE EXPERIENCE:**

**Note: This volume shall not contain any reference to the cost or price aspects of the offer.**

The Offeror shall provide all detailed information and comparative analysis of the corporate experience requested in the subparagraphs below in the written proposal as well as a summary of corporate experience data utilizing Attachment 5 Corporate Experience Volume 4 C.E.1 Contractor Corporate Experience describing the Offeror, the Offeror's principal and critical subcontractors', and JV/SLE team members' corporate experience similar to that required for the instant contract. The experience provided should only relate to "corporate" experience, which is the experience that an entity (proposed Offeror, Offeror's principal and critical subcontractor, and JV/SLE team member) has gained through contracted work vice the experience of its personnel. Offerors should include their experience in any joint ventures/single legal entity as well as acting as an independent prime. Experience information provided should be related to similar programs/contracts performed in the same division, or cost center (e.g. the same CAGE code) in which the Offeror proposes to perform this effort. In general, recent experience will be considered more relevant than older experience.

In the following paragraphs (4.1 to 4.5), the Offeror shall provide examples of corporate experience performing the subject paragraph task and its associated subparagraph/subtask areas. The Offeror should describe the breadth and depth of the work performed where breadth is the degree to which the Offeror has performed all activities/tasks of a given effort and depth is the extent to which each activity/task of the effort was performed, e.g., frequency of occurrence (number of iterations), the degree to which sustained activity was performed, or the amount of rigor (detail) applied to the activity. Corporate experience noted should be relative to proposed roles and responsibilities of the Offeror or Offeror's **principal and critical subcontractors, and JV/SLE team members** in this solicitation as identified in Table E.S.1 Offeror Summary.

The Offeror should provide a comparative analysis between the Offeror's corporate experience and the SOW/SOO for the corporate experience requested in each paragraph below. In response to the paragraphs below, the Offeror should describe the degree of relevance that their corporate experience has to the SOW/SOO requirements as implemented by the Offeror's approach. The Offeror should also explain why the corporate experience is considered relevant; specifically, the Offeror should describe and compare the type of work, scope of effort, location of effort, and the product/technology involved (NGJ program or similar type of work). Note that contract experience for any entity without a defined role and responsibility will be deemed not relevant. Only contract experience for entities with the same CAGE code/DUNS as those proposed with a role and responsibility will be considered in the evaluation. Also, show the depth of experience by comparing the activities/tasks performed in the past to those that would be required for the efforts identified in paragraphs 4.1 to 4.5 of this section.

- 4.1 Hardware Development - Offerors shall submit a description of previous experience in performing tasks similar to that required for NGJ in the following areas:
  - a. Development and maturation of technologies relevant to NGJ, such as high power RF systems, electronically scanned arrays, high power generation and distribution systems, and high capacity cooling systems
  - b. Development of a pod system
  - c. Development of a system with significant Size, Weight, and Power (SWaP) constraints
- 4.2 Aircraft Integration - Offerors shall submit a description of previous experience in the integration onto platforms similar to that required for NGJ including:
  - a. Obtaining US Government Flight Clearances under the NAVAIR 4.0P process.
  - b. Aircraft stores integration
  - c. Operations in a ship's electro-magnetic environment
  - d. Integration with onboard AEA or EW systems
- 4.3 Software Development - Offerors shall submit a description of:
  - a. Previous experience in developing software using the same or similar processes and approaches as proposed for this solicitation
  - b. Development of software with similar complexity to NGJ, such as Jammer management
- 4.4 Program Management - Offerors shall submit a description of Management, including:
  - a. Program Management and Subcontractor Management of complex programs (e.g., ACAT I and ACAT II)

- b. Extent to which the Offeror's proposed management team and the Offeror's Subcontractors/team have previously worked together to deliver products and services
  - c. Extent to which the Offeror and the Offeror's Subcontractors/team members have worked with Government program teams and Government contracting teams, including NAVAIR
- 4.5 Logistical Support – Offerors shall submit a description of previous experience in providing logistical support to other airborne government systems similar in size and scope to that required for TACAIR platforms. This support includes:
- a. System design for enhanced operational availability and supportability
  - b. Supportability analysis and developing a logistics support package to include LPD database
  - c. Development and integration of integrated maintenance, logistic, and training systems
  - d. Development and support of IETM's
  - e. Supply Support and Obsolescence Management
  - f. Item Unique identification Device (IUID) Implementation
  - g. Integration into shipboard aviation facilities

In addition to providing all detailed information and comparative analysis of the corporate experience in the subparagraphs above, the Offeror shall provide a separate corporate experience summary table by completing the Section L Corporate Experience Attachment 5 (Table C.E.1 Contractor Experience) (as outlined below) which should list the Offeror's reference contracts (or documented work effort) utilizing a separate worksheet for each subtask area and entity (Offeror, Offeror's principal and critical subcontractor, and JV/SLE team member), where the subtask area are each subparagraph letter under 4.Xa – z. For each worksheet provided, submit only those contracts and other information related to that experience in that task area. Ensure that corporate experience is identified only for that which the Offeror is proposed to perform (e.g., a JV/SLE team member assigned to perform Non-Destructive Test/Inspection has much experience in software development, but its software development experience would not be relevant because another entity would be doing that type of work.)

The Offeror, Offeror's principal and critical subcontractors, and JV/SLE team member shall provide their experience as an independent Prime, a subcontractor, or in any joint ventures in Attachment 5 Table C.E.1 Contractor Experience (see the format that follows).

Provide the completed Attachment 5 electronically in a single MS Excel workbook labeled as Annex M, using the instructions provided in the first tab, and provide printouts as part of the Offerors hard copy proposal. The contracts in Annex M should be ordered first by performing entity and then by order of relevance.

Per the Executive Summary instructions, contract reference numbers used in this volume shall correspond to the contract reference numbers used in the Corporate Experience Volume 4 (e.g. P1, P2, S1, S2, etc.).

Table C.E.1 Contractor Corporate Experience

Offeror:		Record of Experience for 4.1a Example								
Performing Entity	Contract Reference	Contract Number and Type	Physical Location of Proposing Organization (Place of Performance)	CAGE Code/DUNS associated with Physical Location	Brief Description of Roles & Responsibilities and % of proposed role for this element	Scope (\$)	Acted as Prime, Sub, or Team Member?	Recency (List Contract Start date and Completion date or specify "To Date" if not completed)	# of Years Experience	
Company AB (JV/SLE)	Proposed	N00019-12-R-0035				N/A	Prime	Proposed	N/A	
	P2									
	P1									
	P3									
Company A (JV/SLE Team Member)	Proposed	N00019-12-R-0035				N/A	Team Member	Proposed	N/A	
	T <sub>a</sub> 5									
	T <sub>a</sub> 2									
	T <sub>a</sub> 1									
	T <sub>a</sub> 4									
	T <sub>a</sub> 3									
Company B (JV/SLE Team Member)	Proposed	N00019-12-R-0035				N/A	Sub	Proposed	N/A	
	T <sub>b</sub> 8									
	T <sub>b</sub> 6									
	T <sub>b</sub> 7									
Sub Contractor A	Proposed	N00019-12-R-0035				N/A	Sub	Proposed	N/A	
	S <sub>a</sub> 1									
	S <sub>a</sub> 3									
	S <sub>a</sub> 2									

Note: Contracts are first listed by Company and then ordered from most relevant to least relevant. Note: contract references should correspond to those in the Executive Summary, Table E.S.2 Relevant Contract Summary.

## 5.0 VOLUME 5 – COST

### 5.1 General Information

The following is a list of the Section L Cost Attachments that the Offeror shall utilize to provide cost information as required for this Volume:

- Cost Attachment 1 (CA-1) Program Work Breakdown Structure (PWBS) and PWBS Dictionary
- Cost Attachment 2 (CA-2) Modified DD Form 1921 Example
- Cost Attachment 3 (CA-3) Modified DD Form 1921-1 Example
- Cost Attachment 4 (CA-4) Cost Substantiation
- Cost Attachment 5 (CA-5) Systems Engineering/Program Management
- Cost Attachment 6 (CA-6) Skill Mix/Composite Direct Labor Rate
- Cost Attachment 7 (CA-7) Government Furnished Equipment/Property/Facilities/Information List
- Cost Attachment 8 (CA-8) Software
- Cost Attachment 9 (CA-9) Recurring Hardware Information

Cost Attachment 10 (CA-10) Platform Integration Hardware Impact Cost  
Substantiation  
Cost Attachment 11 (CA-11) Platform Integration Software Impacts

All costs shall be contained in RFP Section B (see Volume 6 Model Contract) and the cost proposal. The Government is required to evaluate each proposal relative to the cost criteria submitted in response to Section M. Adequate substantiation is necessary for the Government to evaluate the cost and scope of the Offeror's estimate for realism and completeness, and to ensure all Next Generation Jammer (NGJ) Technology Development (TD) SOW and projected Engineering and Manufacturing Development (EMD) Statement of Objectives (SOO) requirements are included in the cost proposal. Proper presentation and adequate supporting documentation will ensure the cost proposal is efficiently evaluated and all assumptions are understood. **The burden of proof for cost credibility rests with the Offeror.**

The information required in these cost instructions applies to both the Offeror and to any Principal Subcontractors. Due to the proprietary nature of company rates, rate information may be presented separately for each Offeror and principal subcontractor. Each principal subcontractor that provides a separate volume shall follow the same format as described in these instructions.

In developing the cost proposal, the Offeror shall develop a CWBS and CWBS Dictionary that aligns to the Government provided Program Work Breakdown Structure (PWBS) contained Cost Attachment, CA-1. Tailoring of the CWBS is encouraged and allowed at levels below the PWBS to reflect the Offeror's specific design. The Offeror shall provide substantiation at the lowest CWBS level at which the Offeror's estimate was developed.

The Government will evaluate the technical and estimating approach of all proposals and perform an independent assessment of each Offeror. The assessment will address the sum of the resources required to realistically conduct the program proposed by the Offeror. Of primary importance to this process are the Offeror's actual expenditures for tasks comparable to those found in the CWBS and CWBS Dictionary and historical data from analogous efforts. Where this is not provided/available, the Government may consider historical data from previously executed programs and/or the judgment of members of the Source Selection Team.

The Government is not soliciting any Offeror investments. However, in order to properly assess a proposed cost that appears low or decreases program costs due to a corporate decision to absorb costs (e.g., company investment or management challenge or a contribution of resources and/or equipment), the Offeror shall fully identify and explain any such investments. Additionally, the Offeror shall propose an H-clause that clearly identifies the investment and the associated data and data rights that are conveyed to the Government, that specifically states the fiscal adjustment(s) and identifies the Offeror's liability in Volume 6, Administrative Volume of its proposal. This shall be a contractually binding clause.

Additionally, any adjustments shall be clearly described in the Ground Rules and Assumptions portion of the Offeror's Summary of Estimating Methodology (see paragraph 5.3.1). Any adjustments must be cross-referenced to the Offeror's CWBS, SOW, CLIN, IMS, IMP, and

SEMP. The estimate must be easily traceable from the lowest level at which the Offeror's estimate was substantiated to the CLIN.

The proposal provided by the Offeror will follow the format provided in paragraph 5.3, Cost Proposal Instructions. Provide a cross-reference matrix as illustrated.

CWBS	SOW	CLIN	IMS	IMP	SEMP

## 5.2 Cost Proposal Guidelines

In all cases, documentation is required for each Offeror's CWBS element priced out for the SOW/SOO contained in the RFP. This shall include the basis of estimate for labor, material, and purchased components. If there is any information requested that does not apply to the Offeror's proposal (e.g., non-recurring, manufacturing) then indicate with the letters 'NA' (Not Applicable) on any forms where a space is provided for that.

The Offeror shall ensure consistency between the information/data in this Cost Volume and that provided in the Technical Volume. The Offeror's Cost Proposal should trace to the proposed Integrated Master Plan (IMP) and Integrated Master Schedule (IMS). The IMP/IMS unique identification number should also trace to the CWBS resources proposed.

Cost information shall be submitted in Then Year dollars (TY\$) based on the Government's fiscal year (1 October through 30 September) with the escalation formula provided for each year. The Offeror shall provide a summary level of the Cost Proposal in Constant Fiscal Year 2013 dollars (FY13 \$) by Fiscal Year and CWBS using escalation/de-escalation factors supported by their rates and factors used in their cost proposal. Please provide this summary based on a Level 2 CWBS plus Level 3 for elements within Prime Mission Product.

Offeror provided Cost Attachments are acceptable in lieu of entering data on established Government forms; on the condition they include the same information as the established Government forms. The electronic version of such cost information shall be provided in Microsoft Excel 2007. Clearly identify the CWBS element and costs used on each form submitted in the cost volume(s) (e.g., - Manufacturing Cost, - Engineering Cost). Provide all data and the formula/adjustment used to derive the proposed cost. Ensure that the electronically submitted filenames are directly traceable to the hard copy submittals. The Offeror shall use formulas and functions to the maximum extent possible and avoid using output type "value only" cells. If links are utilized, supply those referenced files. Spreadsheets shall not be protected.

The Offeror shall prepare and submit the cost/price proposal narrative substantiation and rationale in MS Office 2007 Word format and any numerical data in a Microsoft Excel 2007 format on CD-ROM. Files received in a format other than requested are unacceptable. Portable Document Format (PDF) is not acceptable, except when provided in addition to Microsoft Word or Excel formats. Numerical data presented in MS Office format must not be pictorial (i.e. pasted as a picture out of a MS Excel file) and show formulas when presented in MS Excel as

applicable. The proposal shall be unprotected and unlocked, with formulae intact to show mathematical operations.

### **5.3 Cost Proposal Instructions**

The proposal provided by the Offeror shall follow the format below:

#### **Section 1 – Technology Development (TD) Costs**

Tab 1 - Summary of Estimating Methodology

Cost Attachment 4, Cost Substantiation

Cost Attachment 9, Recurring Hardware information

Tab 2 – Programmatic Information

Cost Attachment 7, Government Furnished Equipment / Property / Facilities / Information List

Cost Attachment 5, SEPM WY Level of Effort (LOE) Staffing Matrix

Cost Attachment 10, Platform Integration Hardware Impact Cost Substantiation

Cost Attachment 11, Platform Integration Software Impacts

Tab 3 – Cost Summaries

Cost Attachment 2, Modified DD Form 1921 Example

Cost Attachment 3, Modified DD Form 1921-1 Example

Tab 4 – Labor

Tab 5 – Material

Tab 6 – Other Direct Charges

Tab 7 – Profit or Fee

Tab 8 – Software (TD) form

Cost Attachment 8, Software

#### **Section 2 – Engineering and Manufacturing Development (EMD) Costs**

Tab 1 - Summary of Estimating Methodology

Cost Attachment 4, Cost Substantiation

Cost Attachment 9, Recurring Hardware Information

Tab 2 – Programmatic Information

Cost Attachment 7, Government Furnished Equipment/ Property/ Facilities/ Information List

Cost Attachment 5, SEPM WY Level of Effort (LOE) Staffing Matrix

Cost Attachment 10, Platform Integration Hardware Impact Cost Substantiation

Cost Attachment 11, Platform Integration Software Impacts

Tab 3 – Cost Summaries

Cost Attachment 2, Modified DD Form 1921 Example

Cost Attachment 3, Modified DD Form 1921-1 Example

Tab 4 – Labor

Tab 5 – Material

Tab 6 – Other Direct Charges

Tab 7 – Profit or Fee

Tab 8 – Software (EMD) form

## Cost Attachment 8, Software

### **Section 3 – Contractor Rates**

Tab 1 – Indirect rates

Tab 2 – Direct rates

Cost Attachment 6, Skill Mix/Composite Direct Labor Rates

Tab 3 – Cost to Sell Equations

Tab 4 – Escalation

### **Section 4 – Other Cost Impacts for the NGJ Contract**

#### **5.3.1 SECTION 1: TD COST SPECIFIC INSTRUCTIONS**

The following guidelines and sample formats/attachments are provided to assist the Offeror in preparing clear, concise, comprehensive, and traceable proposals.

A. The Offeror shall cost the CWBS and ensure that it is cross-referenced to the proposed SOW, CLIN, IMS, IMP, and SEMP. All totals should agree. Substantiation should be provided at the lowest level for which the Offeror developed estimates. Ensure consistency between the information/data in this Volume and that provided in the Technical Volume. Specifically, ensure the resources identified in the IMP and IMS are consistent with the costs proposed in this Volume and the basis for those estimates.

B. Data Substantiation is required, by CWBS element, for all prime and principal subcontractor costs and clearly described in Cost Attachment 4, Cost Substantiation. Historical data from comparable or analogous systems/subsystems should be used to substantiate the Offeror's estimate where possible. When using historical cost data from comparable systems/subsystems, all assumptions affecting the Offeror's cost proposal are to be fully documented (e.g., escalation methodology, make or buy decisions, etc.). A summary programmatic and technical description of the historical system should be provided along with the actual cost data for the historical system, a comparison to the proposed system, and any adjustments made to derive the proposed estimate. The following shall be considered:

- 1) Programmatic description related to the acquisition aspects of any system identified by the Offeror as comparable/analogous. This includes, for example, the years the item was procured, production rates, quantities procured by year and definition of system composition, sole source or competitive procurement, and the development time period.
- 2) Technical description including the performance and physical aspects of the system. This describes the system in terms of the number of parts, physical configuration, type of material, technology, and physical/performance parameters.
- 3) Actual cost data including the cost account, narrative description of the effort, and the actual cost data (material and person-hours). The cost data should be provided in terms of total dollars actually spent by fiscal year and unit cost.

- 4) When using historical data, the Offeror should describe why the system is comparable to the proposed program. This includes a functional and technical comparison explaining the differences as well as similarities between the historical and the proposed system. Also include an explanation of the relationship between the analogous element cost and the total program cost.
- 5) Adjustments to derive the proposal estimate relate to reasons and justification for any adjustments made to programmatic, technical and actual cost data for the historical system. The Offeror should provide the basis and document any adjustments applied to the historical data (e.g., complexity factors and normalization methods), which reflect the characteristics of the proposed system. This includes an audit trail sufficient for the Government to reconstruct the proposed estimate and judge its credibility.

C. General statements such as “estimates were derived from engineering analysis or judgments” are unacceptable. If a level of effort task is the basis for projecting labor hour requirements, the data substantiation shall include task duration, man-loading, number of times the task is repeated (if applicable), time-phased hours and associated costs, and the relationship between the historical system and the system under review. If a "new or improved" engineering or manufacturing process is the basis for projecting labor hour requirements, the Offeror shall provide a description of the improvements, the relationship to the previous process, a summary of how these improvements will be achieved, and the cost impact of these improvements. General statements about process improvements, management by Integrated Product Team, the application of Acquisition Reform and Lean Six-Sigma/Airspeed, etc., will not be sufficient without substantiating data. Specific savings in person-hours and material must be documented with regard to the content and practicality of these improvements. Adjustments made to the historical data to normalize for changes in the accounting system, business base, or inflation rate should be substantiated.

### **Tab 1 – Summary of the Estimating Methodology**

In this section the Offeror shall provide an overview of the process used to develop the cost proposal. This will include, at the minimum, a summary of the approach used to estimate labor hours and a description of the process used to obtain vendor quotes for purchased equipment and/or material. It will also include a traceability matrix or table that shows the link between the labor hours and material costs included in the cost summaries and those in the detailed labor and material sections. Similar information shall be provided to show traceability between the prime and subcontractor sections.

Provide a cross-reference matrix as illustrated in Paragraph 5.1.

To support the TD proposal, the Offeror shall provide discussion of the pricing methodology to address why the Offeror’s proposed cost is realistic, including such factors as commonality with other programs, commercial sources, advantages of quantity buys, etc. The Offeror shall describe the estimating technique in sufficient detail to enable the Government to replicate the Offeror’s estimating technique. For example, if learning curve theory is the basis for estimating

unit costs, the Offeror should provide its formulation of the theory with all formulas, terms and exponents clearly defined. The substantiation should also include a discussion of the theoretical first unit values, any prior units, improvement slopes, and rate slopes if applicable. The Offeror shall provide this data in a summary format as provided in Cost Attachment 9, Recurring Hardware Information. If parametric simulation or statistically derived models are used, statistical measures of confidence, prediction capability, and fit should be provided for independent and dependent variables, as well as the raw data and source(s) of this raw data.

## **Tab 2 - Programmatic Information**

A. Ground Rules and Assumptions. Provide an explanation of all ground rules and assumptions that affect the cost estimates. Topics to be addressed must include, but are not limited to, technical and programmatic requirements, business base, the basis (source) of labor and overhead rates, investments, cost-sharing arrangements, make/buy decisions, prime/subcontractor relationships and inflation/escalation. Label clearly all tables and charts. All calculations shall obey standard mathematical principles - numbers shall be correctly added, subtracted, etc. General information should be provided in this subsection, with specifics addressed in the appropriate section/subsection. The Offeror shall provide a detailed cost estimating methodology section that provides the detailed rationale and documentation of hours, material and purchased items needed by the Government to assess the credibility and executability of the proposal.

B. GFE/GFI/GFP/GFF. Identify any GFE and Government Furnished Property/Facilities/Information (GFP/F/I) required in performance of the contract in Cost Attachment 7, Government Furnished Equipment/ Property/ Facilities/ Information List. The items on this list should be identical to those provided in accordance with paragraph 2.2.6 of Section L and included in Annex E. Cost Attachment 7 shall include, as applicable, the associated CWBS element, Item Description, NSN or P/N, Unit Cost, Quantity, Total Cost, Contractor/Supplier, Location, Availability, and any additional comments the Offeror believes to be pertinent to the Government's evaluation.

C. System Description. Provide the following technical information for the proposed system and each proposed source data of each historical system used for analogy or parametric estimation.

- 1) Hardware. An identification of the major hardware components within the proposed system. Also identify each component by material composition, prime/principal subcontractor, and make versus buy status.
- 2) Software. An identification of the Computer Software Configuration Items (CSCIs), tracing the requirements allocated to the system specification for each CSCI and its associated Computer Software Component(s) (CSCs).
- 3) System Test and Evaluation. Identify the purpose and function of each test, its SOW reference, and the source - prime or subcontractor - of the test component.

D. Special Tooling and Special Test Equipment (ST/STE). Provide a list of all ST/STE needed to fulfill the requirements of each phase of the program and the proposed cost for each

piece of ST/STE, which is not considered Capital Equipment and will be procured. This list should identify which CWBS element the tooling/test equipment supports, as well as identify the maximum capacity of each ST/STE. Show the ST/STE acquisition costs including any set-up, installation, and shipping costs for the Offeror and principal subcontractors as applicable.

E. Subcontracts, Interdivisional transfers. In order to show the prime Contractor's analysis of subcontractors' pricing, provide a list of anticipated subcontracts and interdivisional transfers. Identify the following by CLIN and by Government Fiscal Year (GFY).

- 1) The supplier
- 2) Description of the item, services, or quantity of hours
- 3) Type of contract
- 4) Subcontractor's quoted and prime Contractor's adjusted subcontract values.  
Explain any differences between the subcontractor's quoted cost and the subcontract cost proposed by the prime.

F. Level of Effort (LOE) Work Years (WYs) by Year. Provide all Contractor and subcontractor WYs for Systems Engineering/Program Management (SEPM) in Cost Attachment 5, SEPM WY LOE Staffing Matrix.

G. Platform Integration.

- 1) For aircraft changes that fall within the boundaries delineated in paragraph 2.1.1.3 (b), the Offeror shall only provide data for costs related to the Offeror's collaboration under the Associate Contractor Agreement (ACA) with the EA-18G OEM as defined in Section 3.4.16 in the TD SOW, and is not required to submit data for the effort by the EA-18G OEM, which will be contracted separately by the government. These costs shall be provided following instructions per Section 5.3.1 and provided in Tab 1 through Tab 8 using the appropriate cost attachments; and are specific to PWBS element 1.3 Platform Integration, Assembly, Test, and Checkout provided in Cost Attachment 1 (CA-1).
- 2) For additional aircraft changes, which will be contracted separately by the government, proposed in paragraph 2.1.1.3 (c) to meet specification requirements, the Offeror shall provide the data required in Cost Attachment 10, Platform Integration Hardware Impact Cost Substantiation and Attachment 11, Platform Integration Software Impacts.

### **Tab 3 - Cost Summaries.**

A. Provide a DD Form 1921, Cost Summary Report, or comparable format to a minimum of Level 3 CWBS for Prime Mission Product sub elements and Level 2 for the rest of the CWBS elements for the TD contract base year. An example of a modified DD Form 1921 has been provided in Cost Attachment 2. The sum of the CWBS elements shall correspond to the Offeror's total proposed cost with subtotals provided at each higher level of the CWBS. Information required in this section includes total program costs, separately identified as

nonrecurring and recurring costs, for both the prime and principal sub-contractors. The Offeror's G&A, profit/fee, and Cost of Money (COM) are also required in this section.

B. Provide a DD Form 1921-1, Functional Cost-Hour Report, or comparable format to a minimum of Level 3 CWBS for Prime Mission Product sub elements and Level 2 for the rest of the CWBS elements for the TD contract base year. Provide a total of all fiscal years and a total by fiscal year for Level 3 for Prime Mission Product sub elements and Level 2 for all else of the CWBS. An example of a modified DD Form 1921-1 has been provided in Cost Attachment 3. This section will be used to identify functional costs (e.g., engineering, tooling, quality control, and manufacturing/support). In-house and major subcontracted efforts must be segregated within the reports. The principal subcontractors shall submit separate DD 1921-1 forms in accordance with these instructions.

Refer to DoD 5000.4-M-1, Cost & Software Data Reporting (CSDR) Manual October 2011, DI-FNCL-81565C, and DI-FNCL-81566C for detailed information regarding DD Form 1921 and 1921-1.

It is intended that the Offeror be allowed to present substantiation to the cost proposal using his own Direct Labor Hour, Material and Direct Charge categories (i.e., functional categories), internal cost accounting categories, and procedures for rate application. The Offeror should provide a functional category matrix, which shows the relationship of the Offeror's functional categories (e.g., Engineering Administration, Support-to-Test, Design Engineering, Test Engineering, etc.) to the DD Form 1921-1.

#### **Tab 4 - Labor**

This section shall provide the substantiation and estimating methodology of the labor hours presented in Tab 3 - Cost Summaries. The total labor hours estimate for each CWBS element should trace to the lowest level of the functional categories of DD Form 1921-1 and the lowest level at which the estimate is substantiated. The overview of data substantiation in Section 1: TD Cost Specific Instructions should be traceable to this section.

For each CWBS element provide a description of the work to be performed, the total hours proposed, and the basis for the estimate and distinguish between recurring and nonrecurring efforts.

The Offeror should also provide a complete description of the labor hour estimating methodology. This also applies to company functional labor categories. If the engineering estimate was developed in person-months, the Offeror shall show conversion from person-months to person-hours. In addition, any cross checks used to verify the reasonableness of the estimate shall be provided (e.g., drafting hours per drawing, software lines of code/day, minutes/component for board assembly; minutes/layer for board fabrication; dollars per pound for fabrication and assembly, etc.).

If standard hours are used as the basis for an estimate, provide any factors applied to the standard hours (i.e., realization factor); the method of calculation; the total proposed hours; the basis of

the factors; and the process flows for each CWBS element. History from the manufacturing facility for previous contracts of similar types and quantities of systems should be provided for all factors. Hours for the functional labor categories should be shown separately according to CWBS element. A separate identification of recurring and nonrecurring labor standards should be made.

### **Tab 5 – Material**

This section shall provide the substantiation and estimating methodology of the material dollars presented in Tab 3 - Cost Summaries. The total material dollar estimate for each CWBS element should trace to the lowest level of the functional categories of DD Form 1921-1 and the lowest level at which the estimate is substantiated. The overview of data substantiation in Section 1: TD Cost Specific Instructions should be traceable to this section.

A. Bill of Material (BOM). Provide a total BOM, by CWBS element, for the TD contract. The BOM shall itemize the total BOM by cost. The BOM should include principal subcontractor costs and any Interdivisional Transfers. The Offeror may group the costs associated with consumable-type material (e.g., nuts, bolts, rivets) instead of showing costs associated with each item. The BOM should trace to the Functional Cost-Hour Report (DD Form 1921-1). The Offeror shall provide a BOM for all principal subcontractors, which traces to the costs included in the principal subcontractor cost summaries. The material costs should exclude burdens such as profit or fee, G&A, and material handling. The BOM should include items 1) through 13), shown below, for all material items except for consumables.

- 1) CWBS Number
- 2) Part Number
- 3) Description of the Purchased Item
- 4) Vendor – Source of the Purchased Item
- 5) Basis of Cost (e.g., Written quote, Verbal quote, Estimate, Analogy, etc.)
- 6) Quantity Required for a Deliverable System
- 7) Unit Cost Quoted
- 8) Adjustments to Quote
- 9) Adjusted Unit Cost
- 10) Total Quantity Required
- 11) Total Recurring Costs (item f multiplied by item i)
- 12) Total Nonrecurring Costs
- 13) Total Proposed Costs

B. Material Factors and Quote Adjustments. Provide an explanation of and substantiation for any adjustment factor(s) applied to the material costs. This includes a definition of the factor, the method of application, detailed quantitative substantiation, and the factor. Examples of these factors include, but are not limited to, escalation, learning curves, quantity adjustments, negotiation adjustments, purchase discounts, freight, scrap, rework, and yield.

### **Tab 6 - Other Direct Charges**

Provide a summary of the recurring and nonrecurring Other Direct Charges (ODCs) elements on the DD Form 1921-1 for each CWBS element.

### **Tab 7 – Profit or Fee**

The NGJ TD contract shall be Cost-Plus Incentive Fee (CPIF) contract for CLIN Item XXX. A description of the Cost-Plus Incentive Fee (CPIF) Plan is contained in paragraph H-1 of the RFP. For purposes of proposal evaluation, the profit or fee will be the proposed total fee (cost target fee plus performance incentive fee (dollar amount)) by the Offeror in Section B. Section B shall be included as part of Volume 6.

### **Tab 8 – Software TD Form**

The Offeror shall provide information for the Government's cost evaluation using the Cost Attachment 8 (CA-8) included in this section. A software TD form is provided for each area of information required for the Government's cost evaluation in Cost Attachment 8, Software

Directions and definitions are provided in Cost Attachment 8, Software form. The software form templates are in Microsoft Excel 2007 format. The Offeror shall provide the completed Cost Attachment 8, Software template in Microsoft Excel 2007 as part of the proposal.

## **5.3.2 SECTION 2: ENGINEERING AND MANUFACTURING DEVELOPMENT (EMD) COST SPECIFIC INSTRUCTIONS**

The following guidelines and sample formats/attachments are provided to assist the Offeror in preparing clear, concise, comprehensive, and traceable projected EMD contract costs.

A. The Offeror shall project the EMD costs, for evaluation purposes only, by CWBS and ensure that it is cross-referenced to the draft EMD SOO, IMS, IMP, and SEMP. All totals should agree. Substantiation should be provided at the lowest level for which the Offeror developed estimates. Ensure consistency between the information/data in this Volume and that provided in the Technical Volume. Specifically, ensure the resources identified in the IMP and IMS are consistent with the costs proposed in this Volume and the basis for those estimates.

B. Data Substantiation is required, by CWBS element, for all prime and principal subcontractor projected EMD contract costs and clearly described in Cost Attachment 4, Cost Substantiation. Historical data from comparable or analogous systems/subsystems should be used to substantiate the Offeror's estimate where possible. When using historical cost data from comparable systems/subsystems, all assumptions affecting the Offeror's cost proposal are to be fully documented (e.g., escalation methodology, make or buy decisions, etc.). A summary programmatic and technical description of the historical system should be provided along with the actual cost data for the historical system, a comparison to the proposed system, and any adjustments made to derive the proposed estimate. The following shall be considered:

- 1) Programmatic description related to the acquisition aspects of any system identified by the Offeror as comparable/analogous. This includes, for example, the years the item was procured, production rates, quantities procured by year and definition of system composition, sole source or competitive procurement, and the development time period.
- 2) Technical description including the performance and physical aspects of the system. This describes the system in terms of the number of parts, physical configuration, type of material, technology, and physical/performance parameters.
- 3) Actual cost data including the cost account, narrative description of the effort, and the actual cost data (material and person-hours). The cost data should be provided in terms of total dollars actually spent by fiscal year and unit cost.
- 4) When using historical data, the Offeror should describe why the system is comparable to the proposed program. This includes a functional and technical comparison explaining the differences as well as similarities between the historical and the proposed system. Also include an explanation of the relationship between the analogous element cost and the total program cost.
- 5) Adjustments to derive the projected EMD contract cost estimate relate to reasons and justification for any adjustments made to programmatic, technical and actual cost data for the historical system. The Offeror should provide the basis and document any adjustments applied to the historical data (e.g., complexity factors and normalization methods), which reflect the characteristics of the proposed system. This includes an audit trail sufficient for the Government to reconstruct the proposed estimate and judge its credibility.

C. General statements such as “estimates were derived from engineering analysis or judgments” are unacceptable. If a level of effort task is the basis for projecting labor hour requirements, the data substantiation shall include task duration, man-loading, number of times the task is repeated (if applicable), time-phased hours and associated costs, and the relationship between the historical system and the system under review. If a "new or improved" engineering or manufacturing process is the basis for projecting labor hour requirements, the Offeror shall provide a description of the improvements, the relationship to the previous process, a summary of how these improvements will be achieved, and the cost impact of these improvements. General statements about process improvements, management by Integrated Product Team, the application of Acquisition Reform and Lean Six-Sigma/Airspeed, etc., will not be sufficient without substantiating data. Specific savings in person-hours and material must be documented with regard to the content and practicality of these improvements. Adjustments made to the historical data to normalize for changes in the accounting system, business base, or inflation rate should be substantiated.

### **Tab 1 – Summary of the Estimating Methodology**

In this section the Offeror shall provide an overview of the process used to develop the projected EMD contract cost. This will include, at the minimum, a summary of the approach used to estimate labor hours and a description of the process used to obtain vendor quotes for purchased equipment and/or material. It will also include a traceability matrix or table that shows the link

between the labor hours and material costs included in the cost summaries and those in the detailed labor and material sections. Similar information shall be provided to show traceability between the prime and subcontractor sections.

Provide a cross-reference matrix as illustrated in Paragraph 5.1.

To support the projected EMD contract cost, the Offeror shall provide discussion of the estimating methodology to address why the Offeror's projected cost is realistic, including such factors as commonality with other programs, commercial sources, advantages of quantity buys, etc. The Offeror shall describe the estimating technique in sufficient detail to enable the Government to replicate the Offeror's estimating technique. For example, if learning curve theory is the basis for estimating unit costs, the Offeror should provide its formulation of the theory with all formulas, terms and exponents clearly defined. The substantiation should also include a discussion of the theoretical first unit values, any prior units, improvement slopes, and rate slopes if applicable. The Offeror shall provide this data in a summary format as provided in Cost Attachment 9, Recurring Hardware Information. If parametric simulation or statistically derived models are used, statistical measures of confidence, prediction capability, and fit should be provided for independent and dependent variables, as well as the raw data and source(s) of this raw data.

## **Tab 2 - Programmatic Information**

A. Ground Rules and Assumptions. Provide an explanation of all ground rules and assumptions that affect the projected EMD cost estimates. Topics to be addressed must include, but are not limited to, technical and programmatic requirements, business base, the basis (source) of labor and overhead rates, investments, cost-sharing arrangements, make/buy decisions, prime/subcontractor relationships and inflation/escalation. Label clearly all tables and charts. All calculations shall obey standard mathematical principles - numbers shall be correctly added, subtracted, etc. General information should be provided in this subsection, with specifics addressed in the appropriate section/subsection. The Offeror shall provide a detailed cost estimating methodology section that provides the detailed rationale and documentation of hours, material and purchased items needed by the Government to assess the credibility and executability of the projected EMDD contract cost.

B. GFE/GFI/GFP/GFF. Identify any GFE and Government Furnished Property/Facilities/Information (GFP/F/I) required in performance of the projected EMD contract in Cost Attachment 7, Government Furnished Equipment/ Property/ Facilities/ Information List. The items on this list should be identical to those provided in accordance with paragraph 2.2.6 of Section L and included in Annex E. Cost Attachment 7 shall include, as applicable, the associated CWBS element, Item Description, NSN or P/N, Unit Cost, Quantity, Total Cost, Contractor/Supplier, Location, Availability, and any additional comments the Offeror believes to be pertinent to the Government's evaluation.

C. System Description. Provide the following technical information for the projected EMD system and each projected EMD cost source data of each historical system used for analogy or parametric estimation.

- 1) Hardware. An identification of the major hardware components within the proposed system. Also identify each component by material composition, prime/principal subcontractor, and make versus buy status.
- 2) Software. An identification of the Computer Software Configuration Items (CSCIs), tracing the requirements allocated to the system specification for each CSCI and its associated Computer Software Component(s) (CSCs).
- 3) System Test and Evaluation. Identify the purpose and function of each test, its SOW reference, and the source - prime or subcontractor - of the test component.

D. Special Tooling and Special Test Equipment (ST/STE). Provide a list of all ST/STE needed to fulfill the requirements of each phase of the program and the projected EMD cost for each piece of ST/STE, which is not considered Capital Equipment and will be procured. This list should identify which CWBS element the tooling/test equipment supports, as well as identify the maximum capacity of each ST/STE. Show the ST/STE acquisition costs including any set-up, installation, and shipping costs for the Offeror and principal subcontractors as applicable.

E. Subcontracts, Interdivisional transfers. In order to show the prime Contractor's analysis of subcontractors' pricing, provide a list of anticipated subcontracts and interdivisional transfers. Identify the following by CLIN and by Government Fiscal Year (GFY).

- 1) The supplier
- 2) Description of the item, services, or quantity of hours
- 3) Type of contract
- 4) Subcontractor's quoted and prime Contractor's adjusted subcontract values.  
Explain any differences between the subcontractor's quoted cost and the subcontract cost proposed by the prime.

F. Level of Effort (LOE) Work Years (WYs) by Year. Provide all Contractor and subcontractor WYs for Systems Engineering/Program Management (SEPM) in Cost Attachment 5, SEPM WY LOE Staffing Matrix.

G. Platform Integration.

- 1) For aircraft changes that fall within the boundaries delineated in paragraph 2.1.1.3 (b), the Offeror shall only provide data for costs related to the Offeror's collaboration under the Associate Contractor Agreement (ACA) with the EA-18G OEM as defined in Section 3.4.16 in the TD SOW, and is not required to submit data for the effort by the EA-18G OEM, which will be contracted separately by the government. These costs shall be provided following instructions per Section 5.3.2 and provided in Tab 1 through Tab 8 using the appropriate cost attachments; and are specific to PWBS element 1.3 Platform Integration, Assembly, Test, and Checkout provided in Cost Attachment 1 (CA-1).
- 2) For additional aircraft changes, which will be contracted separately by the government, proposed in paragraph 2.1.1.3 (c) to meet specification requirements, the Offeror shall provide the data required in Cost Attachment 10, Platform

Integration Hardware Impact Cost Substantiation and Attachment 11, Platform  
Integration Software Impacts.

**Tab 3 - Cost Summaries.**

A. Provide a DD Form 1921, Cost Summary Report, or comparable format to a minimum of Level 3 CWBS for Prime Mission Product sub elements and Level 2 for the rest of the CWBS elements for the TD contract base year. An example of a modified DD Form 1921 has been provided in Cost Attachment 2. The sum of the CWBS elements shall correspond to the Offeror's total proposed cost with subtotals provided at each higher level of the CWBS. Information required in this section includes total program costs, separately identified as nonrecurring and recurring costs, for both the prime and principal sub-contractors. The Offeror's G&A, profit/fee, and Cost of Money (COM) are also required in this section.

B. Provide a DD Form 1921-1, Functional Cost-Hour Report, or comparable format to a minimum of Level 3 CWBS for Prime Mission Product sub elements and Level 2 for the rest of the CWBS elements for the projected EMD contract. Provide a total of all fiscal years and a total by fiscal year for Level 3 for Prime Mission Product sub elements and Level 2 for all else of the CWBS. An example of a modified DD Form 1921-1 has been provided in Cost Attachment 3. This section will be used to identify functional costs (e.g., engineering, tooling, quality control, and manufacturing/support). In-house and major subcontracted efforts must be segregated within the reports. The principal subcontractors shall submit separate DD 1921-1 forms in accordance with these instructions.

Refer to DoD 5000.4-M-1, Cost & Software Data Reporting (CSDR) Manual dated October 2011, DI-FNCL-81565C, and DI-FNCL-81566C for detailed information regarding DD Form 1921 and 1921-1.

It is intended that the Offeror be allowed to present substantiation to the projected EMD contract cost using his own Direct Labor Hour, Material and Direct Charge categories (i.e., functional categories), internal cost accounting categories, and procedures for rate application. The Offeror should provide a functional category matrix, which shows the relationship of the Offeror's functional categories (e.g., Engineering Administration, Support-to-Test, Design Engineering, Test Engineering, etc.) to the DD Form 1921-1.

**Tab 4 - Labor**

This section shall provide the substantiation and estimating methodology of the labor hours presented in Tab 3 - Cost Summaries. The total labor hours estimate for each CWBS element should trace to the lowest level of the functional categories of DD Form 1921-1 and the lowest level at which the estimate is substantiated. The overview of data substantiation in Section 2: EMD Cost Specific Instructions should be traceable to this section.

For each CWBS element provide a description of the work to be performed, the total hours proposed, and the basis for the estimate and distinguish between recurring and nonrecurring efforts.

The Offeror should also provide a complete description of the labor hour estimating methodology. This also applies to company functional labor categories. If the engineering estimate was developed in person-months, the Offeror shall show conversion from person-months to person-hours. In addition, any cross checks used to verify the reasonableness of the estimate shall be provided (e.g., drafting hours per drawing, software lines of code/day, minutes/component for board assembly; minutes/layer for board fabrication; dollars per pound for fabrication and assembly, etc.).

If standard hours are used as the basis for an estimate, provide any factors applied to the standard hours (i.e., realization factor); the method of calculation; the total proposed hours; the basis of the factors; and the process flows for each CWBS element. History from the manufacturing facility for previous contracts of similar types and quantities of systems should be provided for all factors. Hours for the functional labor categories should be shown separately according to CWBS element. A separate identification of recurring and nonrecurring labor standards should be made.

### **Tab 5 – Material**

This section shall provide the substantiation and estimating methodology of the material dollars presented in Tab 3 - Cost Summaries. The total material dollar estimate for each CWBS element should trace to the lowest level of the functional categories of DD Form 1921-1 and the lowest level at which the estimate is substantiated. The overview of data substantiation in Section 2: EMD Cost Specific Instructions should be traceable to this section.

A. Bill of Material (BOM). Provide a total BOM, by CWBS element, for the projected EMDD contract. The BOM shall itemize the total BOM by cost. The BOM should include principal subcontractor costs and any Interdivisional Transfers. The Offeror may group the costs associated with consumable-type material (e.g., nuts, bolts, rivets) instead of showing costs associated with each item. The BOM should trace to the Functional Cost-Hour Report (DD Form 1921-1). All principal subcontractors should also provide a BOM, which traces to the costs included in the principal subcontractor cost summaries. The material costs should exclude burdens such as profit or fee, G&A, and material handling. The BOM should include items 1) through 13), shown below, for all material items except for consumables.

- 1) CWBS Number
- 2) Part Number
- 3) Description of the Purchased Item
- 4) Vendor – Source of the Purchased Item
- 5) Basis of Cost (e.g., Written quote, Verbal quote, Estimate, Analogy, etc.)

- 6) Quantity Required for a Deliverable System
- 7) Unit Cost Quoted
- 8) Adjustments to Quote
- 9) Adjusted Unit Cost
- 10) Total Quantity Required
- 11) Total Recurring Costs (item f multiplied by item i)
- 12) Total Nonrecurring Costs
- 13) Total Proposed Costs

B. Material Factors and Quote Adjustments. Provide an explanation of and substantiation for any adjustment factor(s) applied to the material costs. This includes a definition of the factor, the method of application, detailed quantitative substantiation, and the factor. Examples of these factors include, but are not limited to, escalation, learning curves, quantity adjustments, negotiation adjustments, purchase discounts, freight, scrap, rework, and yield.

#### **Tab 6 - Other Direct Charges**

Provide a summary of the recurring and nonrecurring Other Direct Charges (ODCs) elements on the DD Form 1921-1 for each CWBS element.

#### **Tab 7 – Profit or Fee**

The projected NGJ EMD contract is anticipated to be a Cost-Plus Incentive Fee (CPIF) contract. The target fee for the projected EMD contract cost is anticipated to be 10%.

#### **Tab 8 – Software EMD Form**

The Offeror shall provide information for the Government's cost evaluation using the data forms included in this section. A software form is provided for each area of information required for the Government's cost evaluation in Cost Attachment 8, Software.

Directions and definitions are provided in Cost Attachment 8, Software. The software form templates are in Microsoft Excel 2007 format. The Offeror shall provide the completed Cost Attachment 8, Software template in Microsoft Excel 2007 as part of the proposal.

#### **5.3.3 SECTION 3: CONTRACTOR RATES SPECIFIC INSTRUCTIONS**

The Offeror should provide rate information used in the proposal in this section. Due to the proprietary nature of company rates, this information may be presented separately for each Offeror and principal subcontractor. A trace to Section 1 Tabs 1 and 2 and Section 2 Tabs 1 and 2 should be included to ensure proper use of the rates. If providing calendar year rates, include a trace between calendar year rates and Government Fiscal Year rates used in developing the estimate as well as a trace to DD Form 1921-1. If for accounting purposes, the Offeror uses a yearly base different from the calendar year base, a description is required.

The Offeror shall use and submit Forward Pricing Rate Agreements (FPRAs), Collective Bargaining Agreements (CBAs), and Area Wage Determinations (AWDs) if applicable, in pricing the Cost Volume. The Offeror shall identify whether the labor rates proposed are FPRAs, CBAs, AWDs, ACO/DCAA recommended rates, or Offeror proposed rates.

### **Tab 1 - Indirect Rates**

The Offeror should identify the indirect rates, for both the Offeror and the principal subcontractors, used in the proposal. The Offeror should include a projection of indirect rates that assumes the award of the TD contract in their business base. Any changes to a current FPRAs due to the award, variation of the business base or other factors should be fully described and justified. Discuss the application of these rates in the proposal. In addition, provide summary-level definitions for each major indirect rate account, explaining what costs are included in each overhead pool. The indirect accounts may include, but are not limited to, engineering overhead, manufacturing overhead, general and administrative (G&A), material handling overhead, and Cost of Money (COM). Describe the development of composite indirect rates, which represent a combination of company labor categories, functional elements, or calendar year accounts. **Any Pension Protection Act (PPA) of 2006, Public Law 109-280 costs need to be specifically identified and discussed. If PPA costs are not accounted for within Indirect rates, the Offeror should identify where these costs are captured in their proposal.**

### **Tab 2 - Direct Rates**

A. The Offeror should provide the most current direct labor rate, for both the Offeror and the principal subcontractors that are in effect at the time of proposal submission. This includes the current FPRAs direct labor rates, the projected direct labor rates assuming award, the current company labor categories, and the mix of company labor categories proposed for this contract. Discuss the application of these rates in the proposal. The Offeror should document the development of composite direct rates, which represent a combination of company labor categories, functional elements, or calendar year accounts. In addition, the Offeror should submit detailed definitions for each direct labor category and include the basis for any projected annual increases and any other factors. Direct labor categories may include, but are not limited to, engineering, maintenance/support, tooling, quality control, manufacturing, and integration.

B. Skill Mix. The Offeror should address the Offeror's and principal subcontractors' skill mix used to build up composite rates for each CWBS element (recurring and nonrecurring), support for the proposed skill mix, and a description of the methodology for the composite rate build up. Additionally, the Offeror shall provide similar information pertaining to the skill mix for historical analogous programs, explaining how the historical skill mix supports the proposed skill mix. The Offeror should provide Cost Attachment 6, Skill Mix/Composite Direct Labor Rates, showing the details behind the skill mix and build up of composite rates for the CWBS elements. Provide a trace between the composite rates included in Cost Attachment 6 and the rates contained in Cost Attachment 3, Modified DD Form 1921-1.

NOTE: Where the format specified in Cost Attachment 6 is not sufficient to show the buildup of the composite direct labor rate, the Offeror may expand the form, or provide the information in

the format available from the Offeror's estimating and accounting system, to meet the requirement. Provide separate records for the nonrecurring and recurring estimates as necessary. This applies equally to a principal subcontractor.

The Offeror shall provide similar information pertaining to the skill mix for historical analogous programs using Cost Attachment 6. Include the basis of estimate, explaining how the skill mix from historical programs supports the skill mix proposed for CWBS tasks. The Offeror shall explain and justify all differences in skill mix between the CWBS tasks and historical efforts.

### **Tab 3 - Cost to Sell Equations**

The Offeror should submit the methodology used to transfer the cost data (i.e., direct labor hours or material direct dollars) into a sell cost to the Government (i.e., fully burdened with fee). This includes the sequence in which indirect rates, profit, etc. were applied to direct costs to determine the sell cost. Include the base against which each of the overhead pools is applied in this description.

### **Tab 4 - Escalation**

The Offeror should provide all escalation-related assumptions used in the proposal. Information required in this section includes, but is not limited to, annual rates of escalation, source of the escalation indices, rationale for their applicability, and the method of their application.

## **5.3.4 SECTION 4: OTHER COST IMPACTS FOR THE NGJ TD PHASE CONTRACT**

Identify and substantiate, in the Offeror's own format, other cost adjustments that may impact the cost for the CWBS elements not previously identified. Identify, in detail utilizing Offeror's own format, the costs (savings) that would be incurred and describe the performance that would cause these costs/savings to occur. Note: the Government is not soliciting any investments.

The Offeror shall provide an assessment of the potential for Cost Growth based on the estimating methodology employed and the extent to which risk mitigation efforts are integrated into the proposed cost. Support the assessment with substantiating data, identification of assumptions and detailed description that illustrates how the estimating methodology was employed. Also describe any tangible/contractually binding cost controlling features and/or features that reduce the Government's Cost Growth risk that is proposed, if any.

## **6.0 VOLUME 6 – CONTRACT ADMINISTRATION**

1. Offeror Representatives and Information: Provide the name, title, phone number and e-mail address of the Offeror's principal point of contact for the solicitation. Also identify those

individuals authorized to negotiate with the Government and contractually bind the Offeror. The Offeror shall provide their TIN, DUNS and CAGE code.

2. Government Agency Information: Provide the mailing address, telephone, fax numbers, and facility codes for the Offeror's local Defense Contract Management Agency (DCMA), Defense Contract Audit Agency (DCAA), and Government Paying Office.
3. System Compliances: The Offeror shall indicate the most recent date on which the Offeror's cognizant Defense Contract Administration Agency has determined the adequacy of the Offeror's accounting system and shall identify the verifying Government agency. The Offeror shall indicate the dates of the most recent approvals of the Offeror's cost accounting disclosure statement and the Offeror's purchasing system.
4. Terms and Conditions (if proposed) – This section must include a signed and dated letter stating that all exceptions and deviations that the Offeror takes from the provisions of the RFP and its applicable documents are included in this section. An exception is where an Offeror states it will not comply with a requirement, usually involving contract terms and conditions. A deviation is where an Offeror states it will not comply with a requirement but proposes an alternative to meet the intent of the requirement, usually involving a specification or it is determined by the Government evaluation of the Offerors' proposal. An exception or deviation is considered a deficiency and could be rectified via amendment or discussions. If proposing an exception or deviation, provide a detailed description for each. Indicate the difficulty with the applicable requirement and the proposed solution. Specifically identify the portion of the RFP and the proposal, which are affected.

If any proposed Terms and Conditions or H-clause includes costs/prices, identify that they exist and where in the Cost/Price Volume 5 or the optional Streamlined Alternate Proposal Addendum Book B Volume 7B they exist.

5. For H-5, the Offeror shall provide any assumptions with respect to the NTE fill-in prices for EMD and LRIP. The Government reserves the right to unilaterally make these assumptions part of the resultant contract.
6. Model Contract: Provide a separately bound hard-copy Model Contract (inclusive of sections A-K) and a digital version on a separate disk from the proposal volumes in both PDF and MS file formats. Ensure that the Model Contract includes:
  - a. The original signed SF33 for basic solicitation and each amendment (as applicable),
  - b. Signed Representations, Certifications, and Acknowledgements or Online Representations and Certifications Application (ORCA) reference,
  - c. Section B with proposed pricing,
  - d. Section H-5 with the filled-in NTE costs,
  - e. Section J Attachments 5, 11 and 12.
  - f. Contractor fill-in clauses.

## **7.0 VOLUME 7 – STREAMLINED ALTERNATE PROPOSAL ADDENDUM BOOK A AND BOOK B**

### **A. Introduction**

Each Offeror must submit a proposal that is responsive to and meets the basic requirements of this RFP. However, Offerors may also propose streamlined alternate proposals or addendums in Volume 7. They are not limited to the provisions or suggested approaches of the acquisition data furnished, but may deviate to the extent that such deviation improves the overall performance of Next Generation Jammer program or enhances the program in any way. You are encouraged to submit new ideas and approaches which you feel will improve the program and be in the best interest of the Government. The streamlined alternate proposal shall not be submitted as a complete "stand alone" proposal, but submitted as part of a separate addendum to the basic proposal, as described below. A streamlined alternate proposal may be offered if the trade-offs/innovations are self-contained such that they replace or add to a certain aspect of the Offeror's baseline approach. The streamlined alternate proposal shall identify any deviations from the Government stated requirements and the changes from the Offeror's basic proposal. However, a streamlined alternate proposal may not be used to address or correct aspects of the baseline proposal that do not meet the solicitation requirements or for which a reasonable cost/price cannot be offered.

### **B. Application**

Streamlined alternate proposals will be incorporated into this program in the following fashion. All Offerors' "baseline" proposals (i.e., proposals excluding streamlined alternate proposals) will be reviewed to establish whether or not they are responsive to the Government's RFP. The Government will then review each streamlined alternate proposal, which the Offeror must support by a risk assessment and cost/benefit trade-off analysis, that clearly shows why they are cost effective or enhance the item's performance. Those changed line item costs/prices will be considered to be firm proposals, not estimates.

The Government, at its sole discretion, will accept or reject those streamlined alternate proposals (if any) it considers desirable. The resulting proposal will then be evaluated in accordance with the criteria specified in Section M of the RFP. The Government may then award the contract based on evaluation of the Offeror's "baseline" proposal as modified by the accepted streamlined alternate proposals (if any) without requesting final proposal revisions.

If a streamlined alternate proposal is considered more advantageous to the Government but involves a substantive or material departure from the stated basic proposal requirements or the stated evaluation criteria, all Offerors shall be given an opportunity to submit new or amended proposals on the basis of the revised requirement, provided this can be done without revealing to the other Offerors the innovative solutions or techniques or other information entitled to protection from disclosure. If this cannot be done, the alternate proposal will not be accepted

unless it warrants sole source preference pursuant to the criteria applicable to unsolicited proposals.

### C. Proposal Information

All streamlined alternate proposals shall be submitted in Volume 7. The Offeror must provide a complete description of each streamlined alternate proposal and provide the information as would be expected if it was proposed in the baseline proposal. This addendum must be submitted in two separately bound books. Volume 7, Book A must contain all information, except there will be no cost/price values in dollars. Streamlined Alternate Proposal Addendum, Book B must be a duplicate of Volume 7, Book A but, for each streamlined alternate proposal, it must also contain the cost/price values in dollars showing the savings to the Government (if any) resulting from its utilizing the streamlined alternate proposal. The intent is that a clear one-to-one correspondence be established between all proposed streamlined alternates justifications and cost/price. This correspondence will allow for a rapid, accurate evaluation by the Government's evaluation team. Accordingly, all streamlining alternate costs/prices or savings must correspond to the level of data submitted in the Cost Volume 5 and be substantiated in a similar manner.

The Offeror must provide full justification, including a risk assessment and impact for each streamlined alternate proposal. Further, the Offeror must submit cost/price vs. benefit/trade-off analyses (including schedule), which clearly show why the Offeror's proposed approach to meeting the Government's requirements is more cost effective. Streamlined alternate proposal approach benefits may take the form of significantly reduced cost/price at acceptable or equal performance, comparable cost/price at significantly increased performance, or various other combinations. When cost/price is discussed in Volume 7, Book A, no reference is to be made to total contract cost/price and any other acquisition cost/price. Only cost/price differences, expressed in percent (%), shall be addressed in the trade-off analyses. The corresponding cost/price values in dollars shall be shown only in Volume 7, Book B. All incremental costs/prices displayed in Volume 7, Book B must be applied to the appropriate CLIN, and if applicable, contract work breakdown structure (CWBS), so that a total cost/price element can be determined for each streamlined alternate proposal. Offerors are cautioned that all changes must have some demonstrable benefit.

### **PART C - FUNDING PROFILE**

The funding profile below is provided for planning purposes only. The profile set forth below is the Government's planned funding (TY \$ in Millions) for the total cost plus all fees for performance of the NGJ TD contract. This funding profile is for the Contractor's effort required under the TD RFP. This profile does not include Government requirements or funding for OEM associated with the development/integration/procurement of the NGJ requirements into the aircraft platform.

The Offeror should consider the Government's planned funding profile when it proposes its best value approach for the NGJ TD phase in accordance with this TD solicitation, and in projecting the remaining work to complete the development effort under the EMD phase. Deviations from the Government funding profile is permitted, but discouraged. The Offeror should identify any

discrepancies between this profile and what the Offeror believes is a realistic funding profile for its offer. The Offeror is advised that the budget amounts are subject to change for any given fiscal year.

	RDT&E TD Contract Funding (TY \$ in Millions)			
	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Total</u>
NGJ TD Contract	\$63M	\$123M	\$102M	\$288M

(End of Summary of Changes)