

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT**

1. Contract ID Code  
Firm Fixed Price

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2. Amendment/Modification No.

P00004

3. Effective Date

2013NOV15

4. Requisition/Purchase Req No.

SEE SCHEDULE

5. Project No. (If applicable)

6. Issued By

U.S. ARMY CONTRACTING COMMAND  
VINCENT DISANTO  
WARREN, MICHIGAN 48397-5000  
HTTP://CONTRACTING.TACOM.ARMY.MIL

EMAIL: VINCENT.S.DISANTO@US.ARMY.MIL

Code

W56HZV

7. Administered By (If other than Item 6)

DCMA DETROIT  
35803 MOUND ROAD  
STERLING HEIGHTS MI 48310

Code

S2305A

8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code)

GENERAL DYNAMICS LAND SYSTEMS INC.  
38500 MOUND RD  
STERLING HEIGHTS, MI 48310-3200

9A. Amendment Of Solicitation No.

9B. Dated (See Item 11)

10A. Modification Of Contract/Order No.

W56HZV-12-C-0151

10B. Dated (See Item 13)

2012APR30

Code 7W356

Facility Code

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers

is extended,  is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods:  
(a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendments; (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)

NO CHANGE TO OBLIGATION DATA

**13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS  
It Modifies The Contract/Order No. As Described In Item 14.**

- A. This Change Order is Issued Pursuant To: \_\_\_\_\_ 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 data, 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: \_\_\_\_\_  
Mutual Agreement of Both Parties
- D. Other (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  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.)

SEE SECOND PAGE FOR DESCRIPTION

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)	
		KEITH D. DEPOORTER KEITH.DEPOORTER@US.ARMY.MIL (586)282-9074	
15B. Contractor/Offeror	15C. Date Signed	16B. United States Of America	16C. Date Signed
_____ (Signature of person authorized to sign)		By _____ /SIGNED/ (Signature of Contracting Officer)	2013NOV15

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SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: VINCENT DISANTO  
 Buyer Office Symbol/Telephone Number: CCTA-HBF-P/(586)282-3546  
 Type of Contract: Firm Fixed Price  
 Kind of Contract: Research and Development Contracts  
 Type of Business: Large Business Performing in U.S.  
 Surveillance Criticality Designator: C  
 Weapon System: No Identified Army Weapons Systems

\*\*\* End of Narrative A0000 \*\*\*

Contract:	W56HZV-12-C-0151
Modification:	P00004
Prior Contract Amount:	\$26,052,117.00
Amount of this Action:	\$ <u>0.00</u>
Current Contract Amount:	\$26,052,117.00

1. This is a no-cost bi-lateral supplemental agreement.
2. The purpose of this modification is to make the following changes:

Section B:

- a) Change the referenced date of ATPD 2402 in narrative F0001 in CLIN 1001AA from 27 February 2013 to 09 October 2013.

Section C:

- a) Change paragraph C.3.5.4 Pre-Test Readiness Review (Pre-TRR) and TRR

FROM:

The Contractor shall conduct a Pre-TRR at the Contractors facility no later than 30 days (i.e. 01 October 2013) before test asset delivery to provide assurances that the test requirements can be performed within the stated schedule. The Contractor shall provide subject matter expertise for the Government conducted TRR at Aberdeen Proving Grounds (APG), within 5 days after test asset delivery.

To:

The Contractor shall conduct a Pre-TRR at the Contractors facility no later than 21 days (i.e. 10 October 2013) before test asset delivery to provide assurances that the test requirements can be performed within the stated schedule. The Contractor shall provide subject matter expertise for the Government conducted TRR at Aberdeen Proving Grounds (APG). TRR will begin within 14 days of test asset delivery.

- b) Change paragraph C.11.6 Preventative Maintenance for Abrams Chassis and AVLB

FROM:

The Contractor shall conduct Preventative Maintenance Checks and Services (PMCS) outlined in the Abrams and AVLB operator manuals.

To:

The Contractor shall inspect the AVLB, conduct Annual and Semi-Annual Services to include the replacement of the transmission fluid and engine oil filters, prior to delivery of the prototypes.

Section J:

- a) Updated Exhibit A (Revision Date: 22-Oct-2013 to include the following changes

- i) Changed the remarks section located within CDRL A023

FROM:

The final Preliminary Technical Manual (PTM) shall be delivered 15 days after Government acceptance of the draft PTM. The final PTM shall incorporate all changes identified in Government review of the draft PTM. The final PTM shall be approved prior to the delivery

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of the JAB prototypes.

To:

The final draft Preliminary Technical Manual (PTM) shall be delivered to the Government no later than 31 October 2013. The final PTM shall incorporate all changes identified in Government review of the draft PTM. The final PTM shall be delivered to the Government no later than 07 November 2013.

ii) Changed the remarks section located within CDRL A024

FROM:

The final Training Materials shall be delivered 15 days after Government acceptance of the draft Training Materials. The final Training Materials shall incorporate all changes identified in Government review of the draft Training Materials. The final Training Materials shall be approved prior to the delivery of the JAB prototypes.

To:

The final draft Training Materials shall be delivered to the Government no later than 31 October 2013. The final Training Materials shall incorporate all changes identified in Government review of the draft Training Materials. The final Training Materials shall be delivered to the Government no later than 07 November 2013.

b) Incorporated revised version of Attachment 0001 - ATPD 2402, JAB Purchase Description (to include Annex B & C) dated 9 October 2013.

c) Incorporated revised version of Attachment 0005 - Government Furnished Property List dated 21 Oct 2013.

3. As a result of this modification the total value of the contract is neither increased or decreased.

4. Except as specified above, all other terms and conditions established under the base contract remain unchanged and in full force and effect.

\*\*\* END OF NARRATIVE A0005 \*\*\*

CONTINUATION SHEET

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Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
1001AA	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>JAB ENGINEERING AND MFG DEVELOPMENT</u></p> <p>GENERIC NAME DESCRIPTION: JAB EMD Phase                      CLIN CONTRACT TYPE:                      Firm Fixed Price                      PRON: P126W0302T PRON AMD: 04 ACRN: AA                      AMS CD: 654804H0200                      PSC: 5420</p> <p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u>                      INSPECTION: Origin ACCEPTANCE: Origin</p> <p>The Contractor shall provide two (2) each prototypes for delivery to Aberdeen Test Center no later than 18 months (i.e. 31 Oct 2013) after Contract Award.</p> <p>The prototypes shall be produced IAW ATPD 2402 dated 09 October 2013.</p> <p>The Contractor shall provide a Test Support Package (TSP) with each prototype.                      The period of performance is 28 months (i.e. 30 Aug 2014).</p> <p>(End of narrative F001)</p>	1	LT	\$ 26,052,117.00	\$ 26,052,117.00

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## SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

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## JOINT ASSAULT BRIDGE SCOPE OF WORK

- C.1 General
- C.2 Meetings, Reviews and Program Structure
- C.3 Systems Engineering
- C.4 Configuration Management
- C.5 Reliability, Availability, Maintainability (RAM) Program
- C.6 Risk Management
- C.7 Safety and Environmental
- C.8 Welding
- C.9 Integrated Logistics Support
- C.10 Human Factors Engineering
- C.11 Government Furnished Property
- C.12 Test and Inspection

## C.1 GENERAL SCOPE

The scope of this contract is to design, build, and integrate a mechanism on the M1A1 chassis that will be used to launch and retrieve the Military Load Class (MLC)-85 Armored Vehicle Launched Bridge (AVLB) scissor bridge. The Contractor shall provide two prototype JAB Systems for delivery and provide test support during the Engineering & Manufacturing Development (EMD) Phase of this contract. The Contractor shall provide prototypes in accordance with the specifications of ATPD 2402 (Attachment 0001).

## C.1.1 General Description

The JAB System shall provide a reliable, mobile, survivable, and sustainable gap crossing capability to the maneuver commander. The JAB shall utilize a turret-less Army M1A1 chassis (with the M1A2 Heavy suspension and Total Integrated Engine Revitalization (TIGER) engine) and a launch mechanism to launch and retrieve the Army MLC-85 AVLB.

The Government will furnish an M1A1 chassis and MLC-85 AVLB. The M1A1 chassis and MLC-85 AVLB are on the U.S. Munitions List and are subject to export controlled laws regulations.

## C.1.2 General Requirements

The Contractor is responsible for the overall component selection, integration, design, development, fabrication, Contractor testing, support of Government testing, logistics product development, and configuration management to meet the requirements of this delivery order.

## C.1.3 Data

The Contractor shall prepare deliverable program data in accordance with the format and content specified in the Data Item Descriptions (DID) and deliver data in accordance with the Contract Data Requirements List (CDRL). Unless otherwise stated, all data shall be submitted by email or by other electronic means mutually agreed to by both parties. Data submitted by email shall not exceed 10 megabytes (MB) in file size. Data over 10 MB shall be transmitted on a CD via regular mail or AMRDEC Secure Access File Exchange (SAFE) Web application.

## C.1.4 Calendar

All contract references to days shall be recognized as calendar days, unless specifically identified as work days.

## C.2 MEETINGS, REVIEWS, AND PROGRAM STRUCTURE

## C.2.1 Participation/Logistics

The Contractor shall participate in the meetings, conferences and reviews required in this scope of work with Government attendance. Whenever possible, meetings shall be conducted by electronic means. Physical meetings shall be synchronized to minimize personnel resources and travel expenses.

## C.2.2 Agendas

The Contractor shall submit an agenda and read-ahead package/briefing charts in Contractor format for all meetings, conferences, and reviews. The agenda for the Start of Work Meeting (SOWM) shall be jointly developed by the Government and Contractor (CDRL A001).

## C.2.3 Integrated Master Schedule (IMS)

The Contractor shall deliver an IMS for the JAB EMD phase. The IMS shall include all milestones, system design and integration events, design meetings, Program Management Reviews, CDRL deliverable dates, test, modification, and logistics tasks required to complete the

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program within cost, schedule, performance, and supportability requirements. The Contractor shall maintain the IMS, present the IMS at each Program Management Review (PMR), explain all program slippages, and provide get-well plans within 30 days of discovery (CDRL A002).

#### C.2.4 Meeting/Conference/Review Minutes

The Contractor shall prepare and submit meeting minutes for all meetings, conferences, and reviews. Minutes shall include all issues, actions, CDRL progress, entrance and exit criteria accomplishments, program decisions, and intention of the next PMR or technical review (CDRL A003).

#### C.2.5 Contractor Start of Work Meeting (SOWM)

The Contractor shall conduct a Start of Work Meeting with Government attendance at TACOM in Warren, MI within 30 days after contract award. At the SOWM, the Contractor shall identify to the Government how they will manage all design, integration, fabrication, supportability, and risk throughout the EMD phase. As part of the SOWM, the Government and Contractor will form IPTs. IPTs and membership shall be assigned in the areas of the contract and program management, engineering, Integrated Logistics Support (ILS) (publications, packaging, training), quality assurance, safety, human factors/MANPRINT, and test. The SOWM will be the first Program Management Review (PMR).

#### C.2.6 Program Management Reviews (PMR)

The Contractor shall conduct quarterly PMRs at the Contractors facility, with senior-level program management participation. The Contractor shall present cost, schedule, performance, supportability, and risk status at each PMR and be prepared to discuss details with the Government. PMRs shall be held in conjunction with Technical Reviews when feasible to limit meetings.

### C.3 SYSTEMS ENGINEERING

#### C.3.1 Developmental Drawings

The Contractor shall provide the following drawings to the Government for review prior to the System Preliminary Design Review (PDR) and Critical Design Review (CDR) (CDRL A004) identifying:

- a. All proposed modifications to the M1A1 chassis
- b. Launcher/M1A1 chassis interfaces including joint and attachment details
- c. Launcher mechanism drawings
- d. Component Placement drawings for:
  1. Driver and Commanders station arrangements
  2. Components mounted or placed on top of the M1A1 chassis
  3. All other component placement drawings
- e. Electrical schematic(s)
- f. Hydraulic line routing diagrams/drawings
- g. Any armor added to the JAB chassis
- h. Driver and Commander vision (direct line of sight and using vision systems) under both open and closed hatch modes
- i. Automatic Fire Extinguishing System (AFES) layout to include placement and orientation of AFES sensors
- j. Communications equipment arrangement drawings
- k. Any items indentified by the Government during the Start of Work Meeting / System Requirements Review

#### C.3.2 Prototype Mockup

The Contractor shall provide full size physical prototype mockups for Government review at the User Jury Review and Critical Design Review (CDR). Items which are not available in their final form may be represented by wood, foam, cardboard, or other materials to represent the locations and dimensions of the items listed below:

- a. Component placement to include Driver and Commander station arrangement
- b. All armor added to the system
- c. All components that impact Driver and Commander vision
- d. Other items critical to human factors engineering

#### C.3.3 EMD Design Review Package

The Contractor shall submit an EMD Design Review Package. The package shall include a technical report addressing the methods used and results achieved in carrying out the requirements of the EMD phase and methods planned to accomplish production requirements. The EMD Design Review Package shall include (CDRL A005).

- a. The final ABCL for each JAB upon test completion
- b. A list of all changes proposed for the production phase to include a performance and manufacturing risk assessment
- c. A summary of all test incidents and deficiencies discovered to include all FACARs and lessons learned
- d. Meeting minutes and resulting action item resolution from the PRR, SVR, and FCA
- e. The final System Requirements Compliance Matrix including achieved performance during testing
- f. Details of the diagnostics integrated into the EMD prototypes and any changes or additional integration planned for the production

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units

g. A listing of all parts used that are already provisioned (have NSNs assigned)

h. Final Risk Management Status Report in accordance with CDRL A015

**C.3.4 System Requirements Compliance Matrix**

The Contractor shall develop a requirements compliance matrix that tracks the current compliance with all ATPD 2402 requirements. This matrix shall be developed as estimates and shall be updated to reflect actual performance as development and test progress. The matrix shall follow the sequence and format of ATPD 2402, Table 1 and clearly depict if the data is an estimate or actual performance. The supporting documentation used to populate the requirements compliance matrix shall be available to the Government and discussed at PMRs as well as technical reviews (CDRL A006).

**C.3.5 Technical Reviews**

The Contractor shall provide evidence that all entrance criteria have been met before each of the following technical reviews per Attachment 0002. The technical reviews will not be considered complete until all exit criteria have been met and approved by the Government (CDRL A007).

**C.3.5.1 Preliminary Design Review (PDR)**

The Contractor shall conduct a PDR at the Contractor's facility with Government attendance no later than 90 days (i.e. 29 August 2012) after the SOWM to conduct a technical review of the allocated baseline to ensure the system can meet the requirements of ATPD 2402 before proceeding to a more detailed design. The Contractor shall present preliminary designs to include the Developmental Drawings and System Requirements Compliance Matrix for the JAB prototype systems.

**C.3.5.2 User Jury Review**

The Contractor shall support a User Jury Review at the Contractors facility 77 Days (i.e. 17 December 2012) prior to CDR to allow Soldiers to review the Contractors prototype mockup and proposed configuration of the prototype.

**C.3.5.3 Critical Design Review (CDR)**

The Contractor shall conduct a CDR at the Contractors facility with Government attendance no later than 277 days (i.e. 04 March 2013) after SOWM to conduct a technical review of the product baseline to ensure the system can meet the requirements of ATPD 2402 before finalizing design. The Contractor shall present their preliminary designs to include the Developmental Drawings and System Requirements Compliance Matrix for the JAB prototype systems. The CDR shall be conducted prior to initiation of fabrication/build. Any fabrication/build initiated prior to CDR shall require written approval from the PCO.

**C.3.5.4 Pre-Test Readiness Review (Pre-TRR) and TRR**

The Contractor shall conduct a Pre-TRR at the Contractors facility no later than 21 days (i.e. 10 Oct 2013) before test asset delivery to provide assurances that the test requirements can be performed within the stated schedule. The Contractor shall provide subject matter expertise for the Government conducted TRR at Aberdeen Proving Ground (APG). TRR will begin within 14 days of test asset delivery.

**C.3.5.5 Production Readiness Review (PRR)**

Following the completion of Pre Production Qualification Test (PPQT), the Contractor shall conduct a PRR to determine if the design is ready for production and if the Contractor and major subcontractors have accomplished adequate production planning without incurring unacceptable risks that will breach thresholds of schedule, performance, or cost. The PRR shall be conducted no later than 45 days after PPQT completion.

**C.3.5.6 System Verification Review (SVR)**

Concurrent with the PRR, the Contractor shall conduct an SVR, a multi-disciplined product and process assessment to ensure the JAB meets the functional requirements documented in ATPD 2402.

**C.3.5.7 Functional Configuration Audit (FCA)**

Concurrent with the PRR, the Contractor shall conduct an FCA, the formal examination of the as-tested characteristics of the JAB System with the objective of verifying that the actual performance complies with design and interface requirements in the functional baseline. The FCA shall be a review of the JAB System test/analysis data, including software unit test results, to validate the intended function or performance stated in ATPD 2402 is met.

**C.4 CONFIGURATION MANAGEMENT (CM)**

**C.4.1 CM Program**

The Contractor shall establish a CM program for Configuration identification, control, status accounting, verification, audit, and data management of the JAB System.

**C.4.2 Configuration Management Standards**

The Contractor is encouraged to use Government Electronics and Information Technology Association (GEIA) EIA-649-A, National Consensus Standard for Configuration Management; GEIA-859, Data Management; and DoD MIL-HDBK-61A (SE), Configuration Management Guidance, as

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references for CM and Data Management (DM).

#### C.4.3 Configuration Control

##### C.4.3.1 Engineering Change Proposal (ECP) Notification

The ECP shall provide detailed technical, economic, design, and/or production reasons for the proposed requirement change, the cost of potential resolution, and the effect of the resolution on other requirements. After the CDR is completed, the Contractor shall submit an ECP for notification of any Class I Engineering Change (CDRL A008). An Engineering Change is considered Class I when it affects:

- a. Performance
- b. Reliability, maintainability or survivability.
- c. Weight, balance, moment of inertia.
- d. Interface characteristics.
- e. Electromagnetic characteristics.
- f. Other technical requirements in the specifications. Government Furnished Property (GFP).
- g. Safety.
- h. Compatibility or specified interoperability with interfacing Configuration Items (CIs), support equipment or support software, spares, trainers or training devices/equipment/software.
- i. Interchangeability, substitutability, or replaceability as applied to CIs, and to all subassemblies and parts except the pieces and parts of non-reparable subassemblies.
- j. Sources of CIs or repairable items at any level defined by source- control drawings.
- k. Skills, manning, training, biomedical factors or human-engineering design.
- l. Deliveries.
- m. Scheduled milestones.

#### C.4.4 As-Built Configuration List (ABCL)

The Contractor shall submit an ABCL (CDRL A009) for each JAB System delivered in the EMD phase. The GFP shall be listed as a single item (no indenture of M1A1 chassis or MLC-85 AVLB required). In addition to the requirements in DI-CMAN-81516(T), the ABCL shall include:

- a. Material Specification
- b. Technical Specifications/Standards
- c. Finish Requirements

##### C.4.4.1 Part Numbers

The ABCLs shall be prepared in an indenture level sequence down to the lowest component piece part level. The Contractor shall maintain and deliver configuration records to cross-reference any re-identified or re-marked part number & CAGE to the original manufacturer part number CAGE, or specification-identified part number CAGE, and vice versa. (CDRL A009).

#### C.5 RELIABILITY, AVAILABILITY, MAINTAINABILITY (RAM) PROGRAM

##### C.5.1 Reliability Scorecard Assessment

The Contractor shall complete reliability program scorecard self assessment by completing Attachment 0003. The Contractor shall provide the completed scorecard and all supporting documentation (CDRL A012).

##### C.5.2 R&M Program Management

An R&M management program shall be established and maintained throughout the program cycle. The program shall require analysis and predictions that assess and improve the JAB design's ability to achieve the R&M requirements of ATPD 2402 and develop essential information for the development of the JAB logistics support package. The report (CDRL A013) shall contain the following:

- a. Product Description: a succinct description which accurately reflects the system being reported on such as physical characteristics and interface boundaries.
- b. R&M Requirements: the rationale for the requirements and the Contractors progress towards meeting the customers requirements. It shall include the latest prediction of the products R&M. Changes from previous status reports shall be highlighted.
- c. R&M Risk Area: identify the risk areas associated with the product satisfying the R&M requirements and how these risks have been managed since the last status report.
- d. R&M Program Changes: identify the changes made to the R&M program since the last status report and any intended changes in the remaining period prior to delivery of the product.
- e. R&M Evidence: summarize the evidence gathered during the program from R&M activities undertaken. This section shall discuss the status and outcomes of R&M activities, especially the identification, analysis, classification, and mitigation of failure modes.
- f. R&M Claims: provide a reasoned argument why each of the requirements will be met in service, based on the evidence and any assumptions. All assumptions shall be listed explicitly.

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C.5.3 R&M Predictions

The Contractor shall perform R&M predictions and compare results with R&M requirements in ATPD 2402(CDRL A013).

C.5.4 Design Failure Mode and Effect Analysis (DFMEA)

The Contractor shall provide the Government with a DFMEA for launcher, launcher sub-systems, launcher to M1A1 chassis interfaces, and launcher to MLC-85 AVLB interfaces (CDRL A014).

C.5.5 Availability

Aberdeen Test Center will collect data on parts availability during Government test.

C.6 RISK MANAGEMENT

The Contractor shall identify, monitor, and mitigate all program risks, and track risk elements to completion/closure in a Risk Management Status Report. Resolved risks shall be archived on the report after Government approval (CDRL A015).

C.7 SAFETY AND ENVIRONMENTAL

C.7.1 Safety Engineering Principles

The Contractor shall apply the standard safety practices in accordance with MIL-STD-882 during the design and/or modification of the JAB System and its components. System design and operational procedures shall be developed with the following considerations in C.7.1.1 7.1.5:

C.7.1.1 Identify Hazards and associated causal factors within the system by conducting Safety and Occupational Health analyses. Analysis shall be to the functional depth necessary to identify logical, practical, and cost-effective mitigation techniques and requirements for each causal factor. This analysis shall also consider all hardware, software, environmental, and human factor interfaces as potential contributors in all phases of operation: maintenance, transport, training, and test.

C.7.1.2 Derive safety specific hazard mitigation requirements to eliminate or reduce the likelihood of each causal factor. Provide engineering evidence (through appropriate inspection, analysis, and test) that each mitigation safety requirement is implemented within the design and the system functions as required meeting safety goals and objectives.

C.7.1.3 Eliminate or reduce significant hazards by appropriate design or material selection. If hazards to personnel cannot be avoided or eliminated, steps shall be taken to control or minimize those hazards.

C.7.1.4 Locate equipment components and controls so that access to them by personnel during operation, maintenance, or adjustments shall not require exposure to hazards. All moving parts, mechanical power transmission devices, exhaust system components, pneumatic components and hydraulic components which are of such a nature or so located as to be a hazard to operating or maintenance personnel shall either be enclosed or guarded. Protective devices shall not impair operational functions. Examples of hazards to be considered include, but are not limited to: high temperature, chemical burns, electrical shock, cutting edges, sharp points, and toxic fumes above established threshold limit values.

C.7.1.5 Ensure that suitable warning and caution notes are included in instructions for operation, maintenance, assembly, and repairs. Ensure distinct markings are placed on hazardous components of the equipment.

C.7.2 System Safety Program Plan

The Contractor shall prepare a System Safety Program Plan (SSPP) (CDRL A016). The Contractor SSPP shall detail the tasks and activities of system safety management and system safety engineering required to identify, evaluate, and eliminate or control hazards throughout the system life cycle. In addition to the requirements of DI-SAFT-81626, the SSPP shall describe the Contractors plans to incorporate the JAB System Safety Program Requirements as defined in ATPD 2402.

C.7.3 Hazard Tracking System (HTS)

The Contractor shall develop and maintain a method or procedure to document and track hazards for identification until the hazard is eliminated or the associated risk is reduced to a level acceptable to the Government. The HTS shall contain as a minimum: a description of each potential or actual safety and health hazard of the JAB System, the cause and effects of the hazard, when the hazard may be expected to occur under usual and unusual operating or maintenance conditions, and status of each hazard. The Contractor shall identify actions taken to mitigate the risk associated with the hazards and categorize the risk before and after mitigation in accordance with MIL-STD-882. MIL-STD-882 revision C (prior version) provides further information that may be used for guidance. The Contractor shall identify if the hazard is software related. Mitigation actions include recommended engineering controls, safety features or devices, warning devices and procedures and training. Examples of hazards to be identified in the HTS include, but are not limited to: sharp edges/moving parts hazards, physical hazards (e.g. extreme temperatures, acoustical energy, ionizing and non-ionizing radiation, etc.), chemical hazards (e.g. flammables, corrosives, carcinogens, etc.), toxic fumes (exhaust emissions), electrical hazards, noise, whole-body vibration, compliance issues with regulatory organizations, generation of hazardous wastes, biological hazards, fire prevention issues, and ergonomic hazards.

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All hazards must receive final disposition by the Government. The Contractor shall perform any redesign required due to a hazard and the adequacy of the design change shall remain the responsibility of the Contractor. All hazards closed out in the log shall contain the signature of the Government official who authorized the closeout.

**C.7.4 System Safety Program Progress Report (SSPPR)**

The Contractor shall prepare a System Safety Program Progress Report (SSPPR) in accordance with DI-SAFT-80105B and CDRL A017. The SSPPR shall detail/document any hazard analysis performed since the last delivery of the SSPPR as well as changes incorporated into the system design to enhance safety and to mitigate hazards identified. The SSPPR shall include updates from the Hazard Tracking System, to include new hazards and work accomplished on previously identified hazards since the submission of the last report.

**C.7.5 Safety Assessment Report (SAR)**

As a result of system safety analyses, hazard evaluations, and Government or independent testing, the Contractor shall perform and document a safety and health hazard assessment. The safety and health hazard assessment shall identify all known safety and health features of the hardware, software, system design, and inherent hazards and shall establish operational/maintenance procedures and/or precautions to be observed by Government test agencies and system users. The Contractor shall prepare the SAR in accordance with CDRL A018, including the information contained in the HTS. In addition to the requirements of DI-SAFT-80102B, the Contractor shall also identify safety and health hazards associated with the system to include any modifications as described in the following sections.

**C.7.5.1 Hazardous Materials**

A list of hazardous materials used in or on the system shall be included in the SAR and identified by chemical name, common or trade name, NSN (if applicable), physical form and manufacturer/supplier. The list shall annotate the location in the JAB System of the hazardous materials, the conditions under which hazardous materials pose a health threat, and the recommended disposal actions. Highly toxic or carcinogenic materials as defined in 29 CFR 1910.1200 shall not be used in the manufacture or assembly of the system without PCO approval. The Contractor shall submit a Request for Use of JAB Prohibited Hazardous Materials Form (Attachment 0008) as part of a request for PCO Approval.

**C.7.5.2 Radioactive Materials**

If radioactive materials must be utilized in the system, the following analysis shall be included as part of a request for PCO approval: establish justification why these materials are the only means of meeting military operational requirements; provide sufficient data to permit the Government to secure a license for the radioactive material; and describe design and procedures required to minimize hazards to personnel during manufacture, use, transportation, and disposal. The Contractor shall specify the following information and procedural controls for each item containing radioactive material: marking of the item(s); ultimate disposal method; NSN and part nomenclature of each radioactive item; NSN of all end articles containing the radioactive item; total number of radioactive items per end article; the total number of radioactive items to be procured (including spares); and, a Material Safety Data Sheet.

**C.7.5.3 SAR Updates**

In the event the JAB System is modified or operational/maintenance procedural changes are made, the Contractor shall update the SAR to reflect those modifications or changes. The Contractor shall submit an updated SAR in accordance with CDRL A018. After this second SAR delivery, the Contractor shall provide updated SAR change page notices within 30 days after any new modification or change is implemented. In addition, the Contractor shall immediately notify the PCO and Contracting Officers Representative (COR) (within 24 hours) via phone and email if new hazards or increased risk/hazard probability levels are identified while Government testing of the JAB System is ongoing.

**C.7.6 JAB System Safety Working Group (JSSWG)/Safety Review Support**

The Contractor shall provide representation at the JSSWGs, which will be held in conjunction with Quarterly PMRs. The JSSWG is a PM chartered advisory group dedicated to addressing safety issues and supporting the Program Manager in implementing the System Safety Program.

**C.7.7 Hazardous Materials Management Program (HMMP) Report**

The Contractor shall prepare an HMMP Report which shall identify all hazardous materials required for system manufacture, assembly, operation and sustainment, including the parts/processes that require them. This report shall be prepared in accordance with National Aerospace Standard 411, section 4.4. (Exception to NAS 411 Section 4.4.1: Hazardous materials used in system manufacture and assembly shall be identified in the report in addition to those hazardous materials delivered and required for operation and support). The report shall include a listing of prioritized hazardous materials for minimization/elimination, and identify those hazardous materials/processes for which non-hazardous substitute materials/technologies may be available for implementation. The HMMP Report shall specify which phase (manufacture, operation, and/or sustainment) that each material is required for. Status, changes, or issues with the HMMP Report shall be discussed as a part of each technical review and program management review (CDRL A019).

**C.8 WELDING****C.8.1 Welding Procedures**

The Contractor shall develop Weld Repair Procedures and Welding Procedure Specifications (WPS) (CDRL A020), Procedure Qualification Records (PQRs) (CDRL A021), Welder Qualification Records (WQR) (CDRL A022) in accordance with welding code(s) as specified in ATPD 2402

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Table 3: Welding Standards. The Contractor shall follow the appropriate welding standard scope to qualify the welding and weld repair procedures. The Contractor shall prepare weld samples and test the weld procedure for qualification in accordance with the appropriate standard. Changes to the Weld Repair Procedures and WPS, PQR, or WQR will require requalification and shall be submitted as part of the CDRL. The use of pre-qualified weld joints as specified in American Welding Society (AWS) D1.1 does not preclude submittal of welding procedures.

#### C.8.1.1 Previously Qualified Procedures

If the Contractor previously qualified welding procedures under another DOD contract, and wants approval to use these procedures, the Contractor shall submit a written request to the PCO prior to prototyping or build. The following requirements shall be met and documentation shall be provided (CDRL A020, A021, and A022):

- a. The weld procedure was qualified by destructive testing and approved on a previous DOD contract and the essential variables are within the tolerance as specified in the applicable welding standard(s) for the current contract.
- b. The Contractor has certified welders and equipment to the qualified procedures in accordance with the applicable welding standard(s).
- c. There was no break in production for more than six months at the facility where the procedures were used.
- d. A favorable quality history with regards to weld quality on the previous contract where the procedures were used.

#### C.8.1.2 Welding Repair Procedures

The Contractor shall provide written repair procedure(s) identifying proper technique and approach to correct defective product and obtain Government approval of the procedure prior to repair of defective parts (CDRL A020).

#### C.8.1.3 Armor Welding Procedures

Prior to manufacturing, the Contractor shall develop welding procedures for steel structures that utilize carbon or low alloy steels that are 1/8 inch (3mm) or thicker with a minimum specified yield strength greater than 100ksi (600MPa) in accordance with the Ground Combat Vehicle Welding Code for Steel, and for aluminum armor material that is covered under AWS D1.2 and submit the Contractor's version to the Government for approval (CDRL A020 and A021).

#### C.8.1.4 Structural Welding Procedures

Non-armor and structural welding design shall be performed by the Contractor and will ensure that all steel, aluminum, titanium, and stainless steel weldments meet the design and fabrication requirements in American Welding Society (AWS) D1.X.XX (DOD Adopted) or a PCO approved equivalent. The use of pre-qualified weld joints as specified in AWS D1.1 does not preclude submittal of welding procedures (CDRL A020 and A021).

#### C.8.2 Non-Destructive Testing (NDT)

##### C.8.2.1 Nondestructive Critical Weld Joint Inspection

The Contractor shall clearly identify all critical joints required for NDT other than visual inspection (CDRL A020). Procedures shall be made available upon request by the Government.

##### C.8.2.2 Nondestructive Inspectors

When NDT is required, the inspectors shall be qualified IAW the current edition of American Society for Nondestructive Testing Recommended Practice No. SNT-TC-1A. Only individuals qualified for NDT LEVEL I and working under the NDT LEVEL II or individuals qualified for NDT LEVEL II may perform nondestructive testing except visual examination. The NDT personnel need not be an AWS Certified Weld Inspector (CWI). The Contractor shall make available all NDT personnel qualification records upon request by the Government.

##### \* C.8.2.3 Nondestructive Testing Acceptance Criteria for Armor Material(s)

When NDT is required for ballistic welds the procedures and acceptance criteria shall be IAW TACOM Ground Combat Vehicle Welding Code Drawing Number 19207-12479550 for steel and 19207-12472301 for aluminum as outlined in Clause E-6: Visual Inspection Criteria for Weldments.

##### C.8.2.4 Nondestructive Testing Acceptance Criteria for Non Armor and Structural Material(s)

When NDT is required for non-armor and structural material(s) the acceptance criteria shall be as stated in the applicable code. The acceptance criteria differ based on the design loads. The Contractor shall state what joints are critical load bearing members and clearly identify these weldments for inspection purposes (CDRL A020). In the case of critical structures, the acceptance criteria for cyclic loads will be as stated in AWS D1.1 and Class II structures for Aluminum welds IAW AWS D1.2.

#### C.8.3 Weld Equipment

The Contractor shall ensure that all welding equipment (gauges and meters), including subcontractors' welding equipment, used in the performance of this contract have been certified and calibrated annually in accordance with the weld standards in ATPD 2402 Table 3. Upon Government request, the Contractor shall make available equipment calibration documentation.

#### C.8.4 Welding Inspectors

During performance of this contract, the Contractor shall verify weld quality and workmanship using qualified inspectors trained to perform these inspection functions. The Contractor shall make available all personnel qualification records upon request by the

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Government. The inspectors must meet at least one of the requirements below:

- a. Current Certification in accordance with AWS, Certified Welding Inspector (CWI), qualified and certified in accordance with provisions of AWS QC1, Standard for AWS Certified Welding Inspector; or
- b. Current certified Welding inspectors qualified by the Canadian Welding Bureau (CWB) to Level II or the Level III requirements of the Canadian Standards Association Standard W 178.2 Certification of Welding Inspectors; or
- c. An individual who, by experience, and/or education, in metals, fabrication and testing, is competent to perform inspection with written approval from the PCO.

C.9 INTEGRATED LOGISTICS SUPPORT

C.9.1 Publication for Operation

The Contractor shall provide a Preliminary Technical Manual (PTM) for JAB Operation during Pre-Production Qualification Test (PPQT) (CDRL A023). The PTM shall be for the entire JAB system. The Contractor shall write the PTM to an eighth grade reading level.

C.9.2 Training

The Contractor shall provide 80 hours of operator training (2 classes at 40 hours each) at the Aberdeen Test Center for 12 Government personnel (6 per class) for PPQT. Training shall consist of safety precautions, equipment familiarization, operator Preventative Maintenance Checks and Services (PMCS), proper operating procedures, operator training and all necessary materials and equipment required to support testing of the JAB. The Preliminary Technical Manual and training materials shall be provided to supplement training (CDRL A024).

C.9.2.1 Training Requirements

The Contractor shall provide certified instructors for all training related to the JAB System. Instructor certification shall be established by: Army Certification (Instructor's Training Course), or by a civilian certification program through public or private certification process, or by a documented Contractor certification program that will be verified by the TACOM Training Manager.

C.10 HUMAN FACTORS ENGINEERING (HFE)

The Contractor shall assure that the system design is consistent with the capabilities and limitations of the fully equipped Soldier to operate, maintain, supply, and transport it in its operational environment, consistent with tactical requirements and logistical capabilities. The scope of the HFE analysis, design and test activities shall include compensation for the effects of personal equipment; clothing; protective gear; extremes of natural environment including atmospheric, degraded visibility, thermal, and terrain conditions as defined by system requirements; workload contingencies; and combat training scenarios for each deployment mode and intended duty cycle (normal, sustained, and emergency). The Contractor shall evaluate the system to assess capability to maximize system and human performance and combat effectiveness and identify any shortfalls and implement appropriate resolutions.

C.10.1 Human Factors Engineering Analysis (HFEA)

The Contractor shall perform and deliver an HFEA (CDRL A025). The HFEA shall describe the status of the systems human factors engineering program and contain adequate data to support the Contractors assertions that the system meets the human factors engineering requirements for Milestone Decision and Design Reviews. The Contractor shall identify HFE shortfalls or issues and implement appropriate resolutions. The Contractor shall maintain a database of the issues and provide updates per the CDRL. As guides for managing the HFE program, the Contractor may use MIL-STD-1472, Human Engineering Design Criteria for Military Systems Equipment and Facilities, and MIL-STD-1474, Noise Limits Design Criteria for Military Systems Equipment and Facilities.

C.11 GOVERNMENT FURNISHED PROPERTY (GFP)

In accordance with Attachment 0005, the following GFP will be provided to the Contractor within 30 days (i.e. 01 July 2012) after SOWM (provided all requirements to receive GFP are met):

- a. M1A1 chassis as the mobility platform, PN12304661-2.
- b. The existing Army MLC 85 AVLB, NSN 5420-01-390-3933
- c. M1A1 chassis Basic Issue Items (BII) and Components of the End Item (COEI)
- d. AVLB BII

The Contractor shall incorporate all GFP into the JAB System in accordance with ATPD 2402. The Contractor shall securely store all GFP.

C.11.1 Abrams Chassis and AVLB BII and COEI

The Government will provide one set of BII/COEI for each M1A1 chassis. One set of AVLB BII be provided with each bridge. A list of the M1A1 chassis and AVLB BII/COEI and publications is provided as Attachment 0005.

C.11.2 Abrams Chassis Government Furnished Information

Supplemental training materials will be provided to the Contractor concurrent with GFP M1A1 chassis delivery.

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**C.11.3 Contractor Requirements for Operating GFP**

The Contractor shall have US Army trained and experienced Abrams chassis operators. These operators shall have held the Military Occupation Specialty of 19K, or equivalent to 91A (45E, 63E). The Contractor shall ensure that potential operators possess an original copy of their DA 348 (not recreated), which reflects Abrams chassis training and experience. Licenses for these qualified operators will be issued by US Army TACOM. The Contractor shall provide proof of operator(s) qualifications at the SOWM.

**C.11.4 GFP Supplemental Training**

The Contractor shall attend Government provided familiarization training upon delivery of GFP. The Government will show differences between the M1A1 Main Battle Tank and the M1A1 chassis provided as GFP. The supplemental training will not exceed 40 hours. The Contractor shall provide a list of attendees to the Government at the SOWM confirming the students are U.S. Citizens or possess a permanent resident alien status for export controlled materials.

**C.11.5 Government Technical Support for GFP**

The Government will provide technical representatives for the GFP at the Contractors site if there are chassis or AVLB failures during the Contractor design phase. The Contractor shall notify the COR of any failures within 24 hours via email or phone call.

**C.11.6 Preventive Maintenance for Abrams Chassis and AVLB**

The Contractor shall inspect the AVLB, conduct Annual and Semi-Annual Services to include the replacement of the transmission fluid and engine oil filters, prior to the delivery of the prototypes.

**C.11.7 Government System Support Package**

The Government will provide a system support package (SSP) for the M1A1 chassis and the AVLB bridge to be securely stored at the Government's facility during the design effort. A list of the parts for the M1A1 chassis and AVLB SSP will be provided at the JAB SOWM and delivered with the GFP. The package will be utilized by the Government technical representatives to support the chassis and AVLB. The Contractor may use parts from the SSP to keep the vehicle operational, upon written authorization from the PCO.

**C.12 QUALITY**

**C.12.1 Quality Program Plan**

The Contractor shall develop a Quality Program Plan acceptable to the Government for all supplies and services to be provided under this contract. The Quality Program Plan shall address software and hardware contractual requirements. The quality manual/program plan shall follow the guidance of ISO-9004 section 4.2 (CDRL A026).

**C.12.1.1 Subcontractor Quality Assurance**

The Contractor shall have a subcontractor Quality Assurance Program that defines the appropriate ISO-9000 series or Government approved equivalent quality program requirements for each supplier. The Contractors supplier Quality Assurance Program shall assure each supplier has a documented quality program and documents control plans, conducts source inspections or receiving inspections, and initiates investigations for manufacturing and test problems. The Contractor's plan shall include provisions for periodic audits (CDRL A026).

**C.12.1.2 Acceptance of Subcontractors Quality Assurance Plan**

The Contractor shall review and document acceptance of their subcontractors quality assurance plans. The Contractor shall make documentation available for review upon Government request. Government audits will be at the direction of the Government Procuring Activity.

**C.13 TEST AND INSPECTION**

**C.13.1 Inspection & Test Equipment**

The Contractor shall make inspection equipment available to the Government Inspector during Government in-process or end item inspection. The Contractor is responsible for the supply and maintenance of all inspection and test equipment necessary to assure that end item components conform to contract requirements. Upon completion of the inspection by the Government Inspector, all inspection equipment shall be returned to the Contractor.

**C.13.2 Prototype Inspection Overview**

Prior to delivery to the Government, the Contractor shall conduct inspections and tests for the prototype JABs in accordance with ATPD 2402.

**C.13.2.1 In-Process Inspection**

During fabrication of the prototype JABs, the Government shall have access to the Contractors or subcontractors facility to perform in-process inspections in accordance with ATPD 2402.

**C.13.2.2 Pre Production Unit Inspection (PPUI)**

Prior to delivery of the prototypes, the Contractor shall conduct PPUI in accordance with ATPD 2402.

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**Name of Offeror or Contractor:** GENERAL DYNAMICS LAND SYSTEMS INC.**C.13.2.3 Final Inspection Record (FIR)**

The Contractor shall prepare a FIR in Contractor format to be used during Quality Conformance Inspection (QCI) in accordance with ATPD 2402. The FIR shall list each characteristic or function inspected or tested, and the relationship to the contract requirement (CDRL A027). Deficiencies disclosed and corrective action taken during inspection by the Contractor or the Government shall be described in writing on the Deficiency Sheet attached to the FIR. The Contractor shall perform 100% final inspection of the end item in accordance with the requirements of ATPD 2402 utilizing the Government approved FIR.

**C.13.3 Certifications to ATPD 2402 Performance Requirements**

The Contractor shall provide the certifications specified by ATPD 2402 (CDRL A028).

**C.13.4 Government Test Overview**

The Government conducted test and evaluation consists of series of tests and analyses to be conducted during PPQT in accordance with ATPD 2402. The Contractor shall correct all performance, manufacturing, and quality defects discovered during PPQT.

**C.13.4.1 Pre-Production Qualification Test (PPQT)**

The Government intends to conduct PPQT for no more than 180 days. PPQT will be conducted for up to 166 days at Aberdeen Test Center, Aberdeen, Maryland and up to 14 days at White Sands Missile Range (WSMR), New Mexico. The Government will conduct performance testing in accordance with ATPD 2402. The Government has the right to modify or waive any test requirement listed in ATPD 2402.

**C.13.4.2 Test Support****C.13.4.2.1 Test Support Package (TSP) List**

The Contractor shall provide TSP lists for PPQT (CDRL 029). The PPQT TSP list shall identify quantities of supplies needed for the testing of two JAB launcher mechanisms. Petroleum, Oils and Lubricants (POL) shall not be included in the TSP list. The TSP shall include the following:

- a. Spare/repair parts. All items required to support the service intervals defined in the technical manuals
- b. Peculiar/common/special tools.
- c. Basic Issue Items.
- d. All parts the Contractor determines to have a high failure rate
- e. All long lead items that have the potential to significantly cause delays during test (in the event of failure)

**C.13.4.2.2 TSP**

The Contractor shall assemble, furnish and ship (to include packing, packaging and transportation) the TSPs. The TSPs shall consist of items listed on the TSP lists. The Contractor shall resupply items consumed during test to ensure test continuity within forty-eight (48) hours of usage.

**C.13.4.2.3 Contractor Test Support Representative**

Contractors shall not be permanently located at the test site. In the event of a failure, the Contractor shall provide a test support representative at the test site within two hours of being notified by the Government, via written notification from the Contracting Officer or the COR. A Government escort is required at all times during a test site visit. At a minimum, the Contractor shall provide the following test services:

- a. Troubleshooting and correcting all failures.
- b. Coordination of vendors required to fix any failures or test incidents.
- c. Shipping and tracking the return of items to off-post repair facilities.

**C.13.4.2.4 Maintenance**

The Government will operate the JAB Systems during PPQT but the Contractor shall perform all maintenance of the JAB Launcher System and Contractor modifications to the chassis. All maintenance shall be conducted in the presence of the Government personnel. The Contractor shall sustain equipment in a mission capable status and perform maintenance both preventive and corrective in nature. The Contractor shall perform maintenance which entails inventory, cleaning, inspecting, preserving, lubricating, adjusting, and testing as well as fault isolating and replacing parts and components. The Contractor shall replace the failed component, assembly, or module to return the system to an operational status.

**C.13.4.3 Test Deficiencies****C.13.4.3.1 R&M Data Collection, Failure Reduction, and Corrective Action Program**

The Contractor shall establish and maintain a system which monitors and supports JAB R&M performance during Government testing through data collection and responsive evaluation of test incidents, to include failed part analyses, and invoking and tracking necessary corrective actions to the systems' design.

**C.13.4.3.2 Failure Analysis and Corrective Action Reporting System (FACARs)**

The Contractor shall be responsible for accessing the Army Test Incident Reporting System (ATIRS) database at Aberdeen Test Center (ATC) to obtain the Test Incident Reports (TIRs) generated on the equipment during the government tests. TIRs are the means by which data

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collected during government testing will be reported. Information on access to ATIRS, and points of contact at ATC are available on the web at: <http://www.vision.atc.army.mil>. The Contractor's date of receipt of the TIR shall be defined as the day the TIR is posted to the database. Upon acquiring a TIR, the Contractor shall assess the failure, and shall furnish a Failure Analysis and Corrective Action Report with the proposed corrective action to prevent or minimize the probability of incident recurrence. The proposed corrective action will be submitted to the FACAR review board for approval and the Contractor will input the approved corrective action report to the ATIRS database through the web. The ATIRS database access for the corrective action reporting will be gained by applying to the ATC website as shown above (CDRL A030).

C.13.4.3.2.1 FACARs are not required for TIRs that are charged to the following (in data block 43): Crew, Maintenance Personnel, and Hardware/Government Furnished Equipment, unless directed by the Government.

C.13.4.3.3 Retest

In the event of a JAB System test defect/failure, the Government reserves the right to retest the JAB System upon correction of the defect(s)/failure(s), at no additional cost to the Government. The Contractor shall be responsible for delays in the program test period resulting from JAB System failures determined to be a result of the integration effort or failure to adequately or timely furnish parts support, and the Government shall have the right to extend the specified program test period accordingly. The Contractor shall continue to provide test support for the extended test period.

C.13.4.3.4 Scoring Conferences/Corrective Action Review Board (CARB) Meetings

C.13.4.3.4.1 Scoring Conference

During and after Government testing, Scoring Conferences will be held to review and independently score TIRs. The Contractor will not attend the actual scoring of the TIRs.

C.13.4.3.4.2 CARB Meetings

During and after Government testing, CARB meetings will be held to review the functional/performance failure data and corrective action status of TIRs which require a Contractor response. The CARB meeting results shall be consistent with scoring conference data. Contractors will be able to attend the meetings to present information, evidence, or opinions that the Government should consider when assessing corrective actions.

C.13.4.3.4.2.1 CARB Meeting Agenda

The Contractor shall provide an electronic CARB Meeting agenda prior to all CARB meetings (CDRL A003). It shall contain at a minimum the following information: TIR, Revision Number, Date Occurred, Original Release Date, Release Date, Title/Maintenance Description, Incident Class, and Chargeability. Official CARB meeting minutes will be provided by the Contractor (CDRL A001).

C.13.4.3.4.3 Assessment Conference

After PPQT, the Government will conduct a final Assessment Conference to review all TIRs, Scoring, and associated FACARs. The Contractor will not attend the Assessment Conference. The Government will provide the results of the Assessment Conference to the Contractor.

C.13.5 Care and Storage Prior to Shipment

The Contractor shall securely store, exercise, and maintain all JAB Systems and test support packages until shipment to assure that the JAB Systems remain in an acceptable condition. The Contractor shall develop a storage, exercise, and maintenance plan with a Quality Assurance Identifier in accordance with CDRL A031. The plan schedule shall include instructions for exercising, inspecting and replacement of components during storage and prior to shipment and contain a reference to all applicable procedures and work instructions.

Revised or added by modification P00002.

\*\*\* END OF NARRATIVE C0001 \*\*\*

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## SECTION J - LIST OF ATTACHMENTS

<u>List of Addenda</u>	<u>Title</u>	<u>Date</u>	<u>Number of Pages</u>	<u>Transmitted By</u>
Exhibit A	CONTRACT DATA REQUIREMENTS LIST	22-OCT-2013	031	ELECTRONIC IMAGE
Attachment 0001	ATPD 2402, JAB PURCHASE DESCRIPTION (TO INCLUDE ANNEX B & C)	09-OCT-2013	070	ELECTRONIC IMAGE
Attachment 0005	GFP LIST - FOUO (SEE ATTACHMENT NOTES BELOW)	21-OCT-2013	004	EMAIL