

SOLICITATION, OFFER AND AWARD		1. This Contract Is A Rated Order Under DPAS (15 CFR 700)		Rating DOA4	Page 1	of 36	Pages
2. Contract Number		3. Solicitation Number W56HZV-14-R-0331		4. Type of Solicitation <input type="checkbox"/> Sealed Bid (IFB) <input checked="" type="checkbox"/> Negotiated (RFP)		5. Date Issued 2014JUL18	
7. Issued By U.S. ARMY CONTRACTING COMMAND CCTA-ASG-B WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL		Code W56HZV	8. Address Offer To (If Other Than Item 7)				
6. Requisition/Purchase Number SEE SCHEDULE							

NOTE: In sealed bid solicitations 'offer' and 'offeror' mean 'bid' and 'bidder'.

SOLICITATION

9. Sealed offers in original and _____ copies for furnishing the supplies or services in the Schedule will be received at the place specified in item 8, or if handcarried, in the depository located in _____ until _____ (hour) local time 2014AUG18 (Date).

Caution - Late Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-1. All offers are subject to all terms and conditions contained in this solicitation.

10. For Information Call:	A. Name MICHAEL CIACIUCH	B. Telephone (No Collect Calls)			C. E-mail Address MICHAEL.R.CIACIUCH.CIV@MAIL.MIL
		Area Code (586)	Number 282-9630	Ext.	

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OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. Discount For Prompt Payment (See Section I, Clause No. 52.232-8)	<input type="checkbox"/> 10 Calendar Days (%)	<input type="checkbox"/> 20 Calendar Days (%)	<input type="checkbox"/> 30 Calendar Days (%)	<input type="checkbox"/> Calendar Days (%)
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14. Acknowledgment of Amendments (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated):	Amendment No.	Date	Amendment No.	Date

15A. Name and Address of Offeror	Code	Facility	16. Name and Title of Person Authorized to Sign Offer (Type or Print)		
15B. Telephone Number		15C. Check if Remittance Address is <input type="checkbox"/> Different From Above - Enter such Address In Schedule	17. Signature		18. Offer Date
Area Code	Number				

AWARD (To be completed by Government)

19. Accepted As To Items Numbered	20. Amount	21. Accounting And Appropriation		
22. Authority For Using Other Than Full And Open Competition: <input checked="" type="checkbox"/> 10 U.S.C. 2304(c)(1) <input type="checkbox"/> 41 U.S.C. 253(c)()		23. Submit Invoices To Address Shown In (4 copies unless otherwise specified)		Item 25
24. Administered By (If other than Item 7)		25. Payment Will Be Made By		
26. Name of Contracting Officer (Type or Print)		27. United States Of America (Signature of Contracting Officer)		28. Award Date

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

CONTINUATION SHEET**Reference No. of Document Being Continued**

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Name of Offeror or Contractor:

SECTION A - SUPPLEMENTAL INFORMATION

Buyer Name: MICHAEL CIACIUCH
Buyer Office Symbol/Telephone Number: CCTA-ASG-B/(586)282-9630
Type of Contract: Firm Fixed Price
Kind of Contract: Research and Development Contracts

*** End of Narrative A0000 ***

<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
A-1	52.204-4016 WARREN ELECTRONIC CONTRACTING	MAR/2013

(a) All Army Contracting Command - Warren (DTA) solicitations and awards are distributed on the Army Contracting Command - Warren Procurement Network (ProcNet) Business Opportunities website (<https://contracting.tacom.army.mil/opportunity.htm>) and are no longer available in hard copy. The Technical Data Packages (TDPs) and other documents, when available electronically, will be attachments or links to the solicitation package on ProcNet.

(b) You may need to use special software to view documents that we post on ProcNet. This viewing software is freeware, available for download at no cost from commercial websites like Microsoft and Adobe. In cases where such software is required, we provide a link from ProcNet to the commercial site where the software is available. Once you arrive at the software developer's site, follow its instructions to download the free viewer. You can then return to the ProcNet.

(c) Unless directed to do otherwise in Section L of this solicitation, you are required to submit your offer, bid, or quote electronically, via the Army Single Face to Industry (ASFI) Online Bid Response System (BRS). For detailed information about submitting your offer electronically, please see <https://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>.

(d) Requirements for the online ASFI bid submission:

(1) You must be registered in the System for Award Management (SAM) at www.sam.gov (a Federal Government owned and operated free web site) and have a CAGE Code and CCR Marketing Partner Identification Number (MPIN).

(2) If you found the solicitation on ProcNet, use the following link to the Start Bid Page on the ASFI BRS website for this solicitation:

https://acquisition.army.mil/asfi/solicitation_view.cfm?psolicitationnbr=W56HZV14R0331

(3) If you found the solicitation by searching on ASFI, you can start the online bidding process by using the Start Bid button on the ASFI Solicitation View page. You may also access the ASFI BRS by going to <https://acquisition.army.mil/asfi/> and clicking on the Contracting Opportunities Search to find the solicitation.

(4) Once in the ASFI BRS, you will be asked to enter basic information and will then be directed to upload one or more files containing your offer and information required by the solicitation.

(5) You will receive a confirmation of your bid upon completion of the bid submission process.

(6) You can find detailed BRS user instructions on the ASFI website at https://acquisition.army.mil/asfi/BRS_guide.doc.

(e) Note to offerors:

Your attention is called to the solicitation closing date and time as stated on the cover page of this solicitation, local time for the Army Contracting Command - Warren (DTA), Michigan. In accordance with FAR 15.208(a), offerors are responsible for submitting proposals, and any revisions, and modifications, so as to be received by the Government office designated in the solicitation by the time specified.

It is the offeror's responsibility to assure their proposal is received by the date and time specified on the cover page of this solicitation. In accordance with FAR 15.208, if your proposal was not received at the initial point of entry to the Government infrastructure (in this case, received through ASFI) by the exact date and time specified on the cover page of this solicitation, it will be determined late. Proposal, as the term is used here, means ALL volumes and/or parts of the proposal.

Note: There is no "expected" or "target" length of time for proposal submission; size and content may be factors, therefore offerors are strongly cautioned to submit their proposals allowing adequate time for submission.

Name of Offeror or Contractor:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS <u>BASE EFFORT</u>				

Name of Offeror or Contractor:

B.1 MILESTONE SCHEDULE AND PAYMENT AMOUNTS. The Contractor is authorized to bill for each of the firm-fixed-price payable milestones under this contract only upon receipt of confirmation of acceptance by the Contracting Officer's Representative (COR) of the Contractor's evidence of completion of performance associated with such payable milestone. Each payable milestone defined in B.1.1 (and B.1.2, in the event the option is exercised) below is associated with a sub-CLIN elsewhere in this Section B, and each references a portion of the Statement of Work for definition of the work to be completed for such milestone. Contractor invoices for each payable milestone shall include all appropriate invoicing documentation, detailed to the Sub-CLIN level as shown below, in accordance with the terms of this clause and FAR Clause 52.232-2, entitled "PAYMENTS UNDER FIXED-PRICE RESEARCH AND DEVELOPMENT CONTRACTS" (Apr 1984).

B.1.1 BASE WORK EFFORT MILESTONES - CLIN 0001:

(to be mutually agreed upon between the COR and Contractor - this space will be filled in prior to contract award)

B.1.2 OPTION WORK EFFORT MILESTONES (CLIN 0002 will be established when/if Option is exercised):

(to be mutually agreed upon between the COR and Contractor - this space will be filled in prior to contract award)

B.2 PAYMENTS. The Contractor shall be paid only upon verification by the COR that their work performance has been deemed acceptable and that all milestone requirements have been fulfilled by the Contractor during the particular time period for that individual milestone. If these requirements have not all been met for a certain milestone, the Contractor WILL NOT be allowed to proceed and continue with performance towards achieving the next milestone until all requirements have been met.

B.3 FUNDING. The Base portion of the work effort will be fully funded at the time of Contract award, and the Option portion funded at such time that a contractual modification exercising the Option is issued by the Contracting Officer.

*** END OF NARRATIVE B0001 ***

CONTINUATION SHEET**Reference No. of Document Being Continued**

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Name of Offeror or Contractor:

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
C-1	52.204-4003 (TACOM)	START OF WORK MEETING	SEP/2013

The contractor shall hold a start of work meeting at its facility, unless some other location is designated in the contract, within 30 calendar days after contract award. The Start of Work Meeting is to assure a clear and mutual understanding of the contract terms, conditions, line items, technical requirements and sequence of events needed for successful execution of the subject contract effort. The contractor shall participate with Government to arrange a schedule and agenda for the meeting.

The contractor shall at a minimum invite the Government contracting personnel (PCO/Contract Specialist). At the discretion of the PCO, other Government technical personnel (Contracting Officer's Representative (COR) identified in Section G or in an appointment letter, Quality Assurance personnel, DCMA, etc.) may also be invited to the meeting. All Government invitees shall be given at least 14 days advance notice of the time, date, and location of the start of work meeting. The preferred method of notification is by email. The contractor shall provide the Government with minutes of the Start of Work Meeting within seven calendar days after the meeting is held.

[End of Clause]

C-2	52.237-4000 (TACOM)	CONTRACTOR MANPOWER REPORTING (CMR)	FEB/2013
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The Office of the Assistant Secretary of the Army (Manpower & Reserve Affairs) operates and maintains a secure Army data collection site where the contractor will report ALL contractor labor hours (including subcontractor labor hours) required for performance of services provided under this contract via secure data collection site. The contractor is required to completely fill in all required data fields in the format using the following web address: <https://cmra.army.mil>. The required information includes the following:

- (1) Contracting Office, Contracting Officer, Contracting Officer's Technical Representative;
- (2) Contract number, including task and delivery order number;
- (3) Beginning and ending dates covered by reporting period;
- (4) Contractor name, address, phone number, e-mail address, identity of contractor employee entering data;
- (5) Direct labor hours (including sub-contractors);
- (6) Direct labor dollars paid this reporting period (including sub-contractors);
- (7) Total payments (including sub-contractors);
- (8) Predominant Federal Service Code (FSC) reflecting services provided by contractor (and separate predominant FSC for each sub-contractor if different);
- (9) Data collection cost;
- (10) Organizational title associated with the Unit Identification Code (UIC) for the Army Requiring Activity (the Army Requiring Activity is responsible for providing the contractor with its UIC for the purposes of reporting this information);
- (11) Locations where contractor and sub-contractors perform the work (specified by zip code in the United States and nearest city, country, when in an overseas location, using standardized nomenclature provided on website);
- (12) Presence of deployment or contingency contract language; and
- (13) Number of contractor and sub-contractor employees deployed in theater this reporting period (by country).

Reporting inputs will be for the labor executed during the period of performance during each Government fiscal year (FY), which runs October 1 through September 30. While inputs may be reported any time during the FY, all data shall be reported no later than October 31 of each calendar year, beginning with 2013. Contractors may direct questions to the help desk at : <https://cmra.army.mil>.

[End of Clause]

Name of Offeror or Contractor:

STATEMENT OF WORK

C.1 INTRODUCTION

C.1.1 OVERVIEW

TARDEC has recently developed a comprehensive 30 Year Strategy with the intent to develop capability demonstrators to shape and inform future requirements for Army Ground Combat & Tactical Vehicles. The Track & Suspension Team is responsible for development of a next generation "leap ahead" combat vehicle track system.

Requirements for this effort include conducting hyper elastic testing, crack fatigue testing, rubber and fatigue modeling, and developing an advanced rubber compound in support of the development of a High Capacity Lightweight Track (HCLWT) and Road Wheels for a 74-ton military vehicle. Further, designation for track is XT-169LT and XT-169RW for road wheels.

The key life limiters for 74-ton weight class military vehicles are the rubber components in the track/road wheel system. Durability improvements in elastomeric materials are essential to improve performance and durability. Leveraging optimized metal component design in conjunction with "Leap Ahead" rubber compounds and geometry to reduce fatigue will increase durability and performance of the track system. Increasing durability, reducing or eliminating mean time between failures, and increasing the survivability of track components will reduce logistical and life cycle costs, and improve vehicle and Soldier effectiveness.

Benchmarking the hyper elastic properties of the T-158LL track and road wheel components will provide the baseline for Finite Element Analysis (FEA) and characterization. Crack fatigue testing and fatigue modeling of rubber components will enhance TARDEC's ability to select optimized rubber compounds and geometry for the ground pads, track bushings, road wheel backer pads and road wheels.

Leveraging "Leap Ahead" rubber compounding technology with specialized carbon blacks, high performance treated silica fillers, Aramid short fibers, and high performance elastomers with this effort will significantly improve the "preferred balance" of key properties; i.e., tensile strength, extension modulus, tear, hysteresis, abrasion resistance, and fatigue resistance. Since elastomeric track components and road wheels operate at elevated temperatures, improvements in high temperature performance will accordingly impart improvements in durability and performance of the track/road wheel system.

C.1.2 OBJECTIVES

C.1.2.1 Increase track durability over the current baseline T-158LL track life (2,000 miles) by 50 percent (to 3,000 miles).

C.1.2.2 Increase road wheel durability over the current baseline Abrams road wheel life (1,500 miles), by 100 percent (to 3,000 miles).

C.2 REQUIREMENTS/TASKS

C.2.1 BASE EFFORT. The Contractor shall provide hyper elastic testing, crack fatigue testing and full characterization of the T-158LL track and road wheel components for FEA model development. The Contractor shall also provide hyper elastic testing, crack fatigue testing and full characterization of the "Best in Class" TARDEC-developed track and road wheel components for FEA model development. The track system elastomeric components are identified as Ground Pad (GP), Track Bushing (TB), Road Wheel Backer Pad (RWBP) and Road wheel (RW).

C.2.1.1 Key property profiles for the T-158 LL track components and TARDEC's materials shall be developed for each component and provide the baseline for development activities to improve component durability by 50 percent. This effort shall establish key property profiles in order to achieve the required durability improvements for GP, TB, RWBP, and RW.

C.2.1.2 Compounding R&D activities shall focus on examining the influence of specialized carbon blacks, high performance silica compounds, nano particles, short fiber reinforcement and orientation and high performance elastomers on meeting and exceeding the key property profiles for the track bushings, road wheel backer pads, and road wheels.

C.2.2 Track System Characterization the Contractor shall:

C.2.2.1 Work with the Government during benchmarking testing activities, FEA, and Fatigue modeling activities

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for the T-158LL elastomeric components and TARDEC's in-house materials, and provide target property profiles for GP, TB, RWBP and RW's.

C.2.2.2 Extract rubber specimens for specialized Hyperelastic testing, crack fatigue testing and full characterization tests as follows:

C.2.2.2.1 T-158LL track system components - eight components and 16 test specimens.

C.2.2.2.2 TARDEC track system/materials - eight components/materials and 16 test specimens.

C.2.2.2.3 Conduct hyper elastic tests, fatigue crack growth tests and characterization tests in order to support FEA model and key property profile development activities as follows:

C.2.2.2.3.1 T-158LL test specimens - four hyperelastic / four crack fatigue tests.

C.2.2.2.3.2 TARDEC track system/materials - 12 hyperelastic / 55 crack fatigue tests.

C.2.2.2.4 Provide T-158LL track system hyperelastic properties to support FEA model development at TARDEC, and report data and progress in accordance with (IAW) Contract Requirements Data List (CRDL) Data Item A001.

C.2.2.2.5 Develop baseline property profiles for the T-158LL track system for ground pads, track bushings, road wheel backer pads and road wheels.

C.2.2.2.6 Provide track system hyperelastic properties from TARDEC components/materials in order to support FEA model development at TARDEC, and report data and progress IAW CDRL Data Item A001.

C.2.2.2.7 Develop baseline property profiles for the TARDEC track system for ground pads, track bushings, road wheel backer pads and road wheels.

C.2.2.2.8 Develop and recommend target property profiles to the COR for each track system component.

C.2.3 Compound Improvement Program

C.2.3.1 The Contractor shall submit for COR review and approval a developmental work plan for evaluating and optimizing track bushings, road wheel backer pads, road wheels and ground pad compounds in order to achieve the targeted 50 percent improvement in the established property profiles.

C.2.3.2 The Contractor shall utilize specialized carbon blacks, high performance silicas, novel low hysteresis fillers, nano-particles, Aramid short fibers, or other filler technologies in combination with conventional and high performance track elastomers in order to increase the durability of the track elastomer compounds.

C.2.3.3 The Contractor shall develop the following number of compounds for characterization testing:

C.2.3.3.1 For advanced track bushings - 18.

C.2.3.3.2 For advanced road wheel backer pads - 22.

C.2.3.3.3 For advanced road wheels - 24.

C.2.3.3.4 For advanced ground - 12.

C.2.3.4 The Contractor shall provide hyper elastic testing, crack fatigue testing and full characterization of the R&D compounds that demonstrate the capability to provide improved durability and performance as follows:

C.2.3.4.1 For hyperelastic testing - three selected materials/components.

C.2.3.4.2 For crack fatigue testing - three selected materials/components.

C.2.3.5 The Contractor shall provide training to the Government regarding data collection, interpretation and application to FEA model development and fatigue model development as follows:

C.2.3.5.1 For testing and analysis of elastomers with Abaqus - two participants.

C.2.3.5.2 For introduction to Fe-Safe/rubber (TM) theory and application of rubber fatigue analysis - two participants.

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C.2.3.6 The Contractor shall leverage all test data, modeling activities, characterization, crack fatigue, and key property profiles to work with the COR in the selection of the following:

C.2.3.6.1 Three track bushing candidates for prototype fabrication and testing at TARDEC/Yuma Proving Grounds (YPG).

C.2.3.6.2 Three road wheel backer pad candidates for prototype fabrication and testing at TARDEC/YPG.

C.2.3.6.3 Three road wheel candidates for prototype fabrication and testing at TARDEC/YPG.

C.2.3.6.4 Three ground pad candidates for prototype fabrication and testing at TARDEC/YPG.

C.2.4 Along with their next chronological progress report submitted (reference C.4.1.1), the Contractor shall provide baseline hyper elastic data for FEA modeling purposes, fatigue crack growth data and full property characterization for the T-158LL track system components, as well as TARDEC's components. This report shall provide the key property profiles for each track system component and recommended property profiles for the improvements required to increase component durability by 50 percent. An R&D plan for conducting compound activities to leverage "Leap Ahead" filler and elastomer technologies shall be prepared in the Contractor's format and included in the report for the review and approval of the Contracting Officer's Representative (COR).

C.2.4.1 Once approved by the COR, the Contractor shall proceed with executing the R&D plan to evaluate and optimize track bushings, road wheel backer pads, road wheels and ground pad compounds to exceed the property profiles established in order to achieve the targeted 50 percent improvement in durability.

C.2.4.2 The Contractor shall conduct hyper elastic testing, crack fatigue testing, and full characterization of the R&D compounds that demonstrates the capability to provide improved durability and performance. The Contractor shall also provide training to the Government concerning data collection, interpretation and application to FEA model development and fatigue model development and utilization.

C.2.4.2.1 The Contractor shall leverage all test data, modeling activities, characterization, crack fatigue, and key property profiles and select two to three track bushing candidates, and two to three road wheel backer pad candidates, for component fabrication and testing at TARDEC.

C.2.4.3 The Final Report (ref. C.4.1.2) shall provide all test data, modeling support activities, training activities, and recommendations on two track bushing compounds and two road wheel backer pad compounds for prototype fabrication.

C.2.5 OPTION. In the event the Contracting Officer exercises the Option in Clause H.1 of this Contract, then the Contractor shall conduct HPLWT component baseline testing on Generation 1 (G-1), XT-169LT G-1 for the track, and XT-169RW G-1 for the road wheels. Hyperelastic and crack fatigue testing, fatigue analysis testing and analysis for FEA fatigue modeling as follows:

C.2.5.1 The HPLWT prototype track system components, G-1 TB, RWBP, RW, and GP for each of the six variants (three from TARDEC and three from the Contractor) shall be tested in order to provide baseline properties. Also, hyperelastic and crack fatigue testing shall be conducted.

C.2.5.1.1 Extract rubber specimens for specialized hyperelastic testing, crack fatigue testing and full characterization tests.

C.2.5.1.2 TARDEC prototype track system components three components (ref. C.2.5.1) times four samples each equals 12 total component samples.

C.2.5.1.3 Rubberization Contractor prototype track system components - three components (ref. C.2.5.1) times four samples each equals 12 total component samples.

C.2.5.2 The Contractor shall conduct hyperelastic tests and characterization tests in order to support FEA Fatigue development activities as follows:

C.2.5.2.1 TARDEC prototype track system components (best performers) - four components.

C.2.5.2.2 Rubberization Contractor prototype track system components (best performers) - four components.

C.2.5.3 The Contract shall provide crack fatigue test results, baseline properties for TARDEC, and rubber fabricator components as follows:

C.2.5.3.1 TARDEC prototype G-1 track system components - three components (ref. C.2.5.1) times four samples each equals 12 total component samples.

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C.2.5.3.2 Rubberization Contractor G-1 prototype track system components - three components (ref. C.2.5.1) times four samples each equals 12 total component samples.

C.2.5.4 The Contractor shall develop baseline property profiles for the best performers for G-1 TARDEC and Rubber Fabricator components (TB, RWBP, RW and GP).

C.2.5.5 The Contractor shall develop and recommend target property profiles in order to optimize through compounding and geometry, a Generation 2 (G-2) track system component which shall achieve a durability improvement of 50 percent for a 74-ton vehicle.

C.2.5.6 Compound Optimization Program. TARDEC XT-169LT for the track and XT-169RW for the road wheels G-2 track system components, Track Bushings & Road Wheel Backer Pads, Road Wheels, and Ground Pads

C.2.5.6.1 The Contractor shall submit for COR review and approval an R&D plan for optimizing next generation (G-2) track bushings, road wheel backer pads, road wheels and ground pad compounds to exceed the property profiles established and achieve 50 percent improvement in durability.

C.2.5.6.2 The Contractor shall leverage specialized carbon blacks, high performance silicas, novel low hysteresis fillers, nano particles, Aramid short fibers, or other filler technologies in combination with conventional and high performance track elastomers in order to optimize properties.

C.2.5.6.3 The Contractor shall develop optimized compounds based on best performer G-1 compounds as follows:

C.2.5.6.3.1 For advanced track bushings - 12.

C.2.5.6.3.2 For advanced road wheel backer pads - 12.

C.2.5.6.3.3 For advanced road wheels - 12.

C.2.5.6.3.4 For advanced ground - 18.

C.2.5.7 The Contractor shall provide hyper elastic testing, crack fatigue testing and full characterization of the R&D compounds that demonstrate the capability to provide improved durability and performance as follows:

C.2.5.7.1 For hyperelastic testing - two selected materials/component.

C.2.5.7.2 For crack fatigue testing - two selected materials/component.

C.2.5.8 The Contractor shall provide training to the Government concerning data collection, interpretation and application of FEA fatigue model development and optimization as follows:

C.2.5.8.1 Provide data, training for adoption of Fe-Safe fatigue model development.

C.2.5.8.2 Provide Fe-Safe fatigue model support and interpretation.

C.2.5.9 The Contractor shall leverage all test data, modeling activities, characterization, crack fatigue, and key property profiles to work with the COR on selection of the following:

C.2.5.9.1 Two track bushing G-2 candidates for prototype fabrication and testing at TARDEC/YPG.

C.2.5.9.2 Two road wheel backer pad G-2 candidates for prototype fabrication and testing at TARDEC/YPG.

C.2.5.9.3 Two road wheel G-2 candidates for prototype fabrication and testing at TARDEC/YPG.

C.2.5.9.4 Two ground pad G-2 candidates for prototype fabrication and testing at TARDEC/YPG.

C.3 MEETINGS

C.3.1 Start of Work/Kick-Off Meeting: Within 30 calendar days of the Contract award date, the Contractor shall schedule and conduct, at their facilities, a Start of Work/Kick-Off Meeting (reference TACOM Contract Clause 52.204-4003, entitled "START OF WORK MEETING", located in Section C). The Contractor shall invite the following persons to participate in this meeting: any personnel the Contractor deems necessary, the COR, the Contracting Officer and/or Contract Specialist, Administrative Contracting Officer and/or Contract Administrator. The objectives for this Meeting are to attain a mutually complete understanding of the effort's requirements/objectives

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and how they will be measured and benefit the Government, review and confirm the project plan/schedule of work, identify respective Government and Contractor responsibilities, and summarize program goals/objectives. Approximately one week prior to the Meeting, the Contractor shall provide the COR with a read-ahead agenda. Within five workdays after the meeting, the Contractor shall distribute via e-mail a set of meeting minutes (prepared in their chosen format) to all attending parties.

C.3.2 Interim Progress Review Meeting. On a date mutually agreeable between the COR and Contractor approximately nine months after the date of Contract award, the Contractor shall coordinate and conduct an Interim Progress Review Meeting at the Contractor's facility in order to discuss all relevant contractual issues experienced to date. Persons invited by the Contractor to attend this meeting shall include any Contractor personnel deemed necessary, and the COR. Approximately one week prior to the meeting, the Contractor shall provide the COR with a read-ahead agenda. Within five workdays after the meeting, the Contractor shall distribute via e-mail a set of meeting minutes (prepared in their chosen format) to all attending parties as well as the ACC-WRN Contract Specialist identified on the first page of the Contract.

C.3.3 Final Project Review Meeting. On a date mutually agreeable between the COR and Contractor approximately 17 months after the date of Contract award, the Contractor shall coordinate and conduct a Final Project Review Meeting, to be held at a mutually-agreeable site. The Contractor shall invite the following persons to participate in this meeting: any personnel the Contractor deems necessary, the COR, the Contracting Officer and/or Contract Specialist, Administrative Contracting Officer and/or Contract Administrator. Approximately one week prior to the Meeting, the Contractor shall provide the COR with a read-ahead agenda. Within five workdays after the meeting, the Contractor shall distribute via e-mail a set of meeting minutes to all attending parties, as well as the ACC-WRN Contract Specialist identified on the first page of the Contract

C.4 DELIVERABLES

C.4.1 DATA ITEMS

C.4.1.1 Contractor's Progress, Status and Management Reports. In accordance with (IAW) Contract Data Requirements List (CDRL) Data Item A001 and DID DI-MGMT-80227(T) (Attachment 0002), the Contractor shall prepare and deliver quarterly Progress, Status and Management Reports (to include cost information), with the first report due within 60 days after the date of Contract award, and each subsequent report due every 90 days thereafter.

C.4.1.1.1 Interim reports shall, as applicable, contain: the Contractor's R&D Plan for conducting compounding activities to leverage "Leap Ahead" filler and elastomer technologies, baseline hyperelastic data for FEA modeling purposes, fatigue crack growth data, full property characterization for the T-158LL/TARDEC track system components (or for TARDEC and rubber fabricator G-1 track system component "Best performers"), key property profiles for each track system component, and recommended property profiles for the improvements required to increase component durability by the targeted amount.

C.4.1.1.2 Final Scientific and Technical Report. IAW CDRL Data Item Number A002 and DID DI-MISC-80711A(T) (Atatch 0003), the Contractor shall prepare and submit Draft and Final Scientific and Technical Reports (approximately 60 calendar days prior to the contractual completion date).

C.4.1.1.2.1 The Final Report shall include and provide all test data, modeling support activities, training activities and the three selected compound recommendations for each track system component, and (if the Option is exercised) the two selected G-2 compound recommendations for each track system component.

C.5 Government-Furnished Equipment/Materials/Property: no Government-furnished property, facilities, materials or data are required for the Contractor to perform the required contractual effort.

C.6 Contractual Period of Performance (ref. F.1.1): all work to be performed for the Base work effort portion of this Contract, including all deliverables, shall be completed by the Contractor no later than 18 months after the date of Contract award. If exercised, the performance period for the Option work effort shall be completed within another 18 months, comprising a potential total period of performance of 36 months from the date of Contract award if the Option is exercised.

END OF STATEMENT OF WORK

*** END OF NARRATIVE C0001 ***

Name of Offeror or Contractor:

SECTION D - PACKAGING AND MARKING

D.1 PACKAGING: The Contractor shall package and pack all items deliverable under this Contract in accordance with standard commercial practice to assure arrival at destination without damage or loss.

D.2 MARKING

D.2.1 Technical Data Marking: the Contractor shall ensure that all Technical Data deliverable under this Contract is identified by Contract number, Contractor name and address, and (when applicable), the name and address of the subcontractor who generated the data.

D.2.2 Materials and Hardware Marking: the Contractor shall mark or tag all materials and hardware required to be delivered, if any, under this Contract with the following information:

- *ACC-WRN Contract Number
- *Contractor's Name
- *Contractor's Address
- *Description of the Material or Hardware

*** END OF NARRATIVE D0001 ***

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Name of Offeror or Contractor:

SECTION E - INSPECTION AND ACCEPTANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
E-1	52.246-16	RESPONSIBILITY FOR SUPPLIES	APR/1984
E-2	52.246-7	INSPECTION OF RESEARCH AND DEVELOPMENT--FIXED-PRICE	AUG/1996

E.1 INSPECTION AND ACCEPTANCE: inspection and acceptance of all deliverables under this Contract shall be made at the DESTINATION by the Contracting Officer or his/her duly authorized representative. The determination that the deliverables are complete and conform to the requirements of the Contract will be made by the Contracting Officer's Representative (COR), in order to assure that the work and the results thereof are in accordance with the terms of the Contract.

*** END OF NARRATIVE E0001 ***

Name of Offeror or Contractor:

SECTION F - DELIVERIES OR PERFORMANCE

F.1 DELIVERY: delivery of all data items set forth in the Contract shall be in accordance with the Contract Data Requirements List (CDRL), DD Form 1423 (reference Section J, Exhibit A).

F.2 PERIOD OF PERFORMANCE: all work required under the base effort of this Contract, including delivery of the Final Scientific and Technical Report, shall be completed within 18 months after the Contract award date. If the Contracting Officer exercises the option, all work for it shall be completed within 36 months of the Contract award date.

F.3 MATERIAL/HARDWARE DELIVERABLES

F.3.1 All materials/hardware required to be delivered under the Contract shall be delivered FOB Destination to the following address:

COMMANDER
U.S. ARMY TARDEC
ATTN: AMSRD-TAR-R/WILLIAM BRADFORD
6501 EAST 11 MILE ROAD
WARREN, MI 48397-5000

*** END OF NARRATIVE F0001 ***

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
F-1	52.242-15	STOP-WORK ORDER	AUG/1989
F-2	52.242-17	GOVERNMENT DELAY OF WORK	APR/1984
F-3	52.247-34	F.O.B. DESTINATION	NOV/1991

Name of Offeror or Contractor:

SECTION G - CONTRACT ADMINISTRATION DATA

G.1 Contractor Billing Instructions

G.1.1 The Contractor shall bill to the six-digit Sub-CLIN and ACRN listed in the Contract, in accordance with DFARS 252.232-7003, "Electronic Submission of Payment Requests and Receiving Reports".

G.1.2 If multiple Sub-CLINs exist on the same four-digit major CLIN, the Contractor shall determine which six-digit Sub-CLIN contains the oldest fiscal year money and invoice against the Sub-CLIN containing the oldest money, until fully billed.

G.1.3 In order to determine the fiscal year of funds, refer to the "Job Order Number" (JON) column listed in the Appropriation and Accounting Data listed elsewhere in this Section G. The first digit represents the fiscal year.

G.2 DFAS Special Payment Instructions: DFAS will make payments as billed.

*** END OF NARRATIVE G0001 ***

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
G-1	252.232-7006	WIDE AREA WORKFLOW PAYMENT INSTRUCTIONS	MAY/2013

(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 System for Award Management 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).

CONTACT ACO* FOR DOCUMENT TYPE (*to be provided at time of award)

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

W91ATL

(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.

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Name of Offeror or Contractor:

Routing Data Table*

Field Name in WAWF	Data to be entered in WAWF
Pay Official DoDAAC	HQ0337
Issue By DoDAAC	W56HZV
Admin DoDAAC	S2305A
Inspect By DoDAAC	W91ATL
Ship To Code	W91ATL
Ship From Code	N/A
Mark For Code	W91ATL
Service Approver (DoDAAC)	W91ATL
Service Acceptor (DoDAAC)	W91ATL
Accept at Other DoDAAC	N/A
LPO DoDAAC	N/A
DCAA Auditor DoDAAC	N/A
Other DoDAAC(s)	N/A

(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.

WILLIAM.G.BRADFORD16.CIV@MAIL.MIL
MICHAEL.R.CIACIUCH.CIV@MAIL.MIL

(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.

ACO (to be provided at time of award)

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

(End of Clause)

G-2 52.242-4016 COMMUNICATIONS

FEB/2013

Communications on technical matters pertaining to the Contract shall be direct between the Contractor and the Contracting Officer's Technical Representative (COTR, or COR). Communications for the COR shall be addressed to:

WILLIAM BRADFORD, PHONE 586.282.0653, E-MAIL WILLIAM.G.BRADFORD16.CIV@MAIL.MIL

The Administrative Contracting Officer's (ACO) name and e-mail address are also provided here:

ACO NAME AND E-MAIL ADDRESS TO BE PROVIDED AT TIME OF AWARD

Please see the individual Appointment Letters issued at the time of Contract award for detailed information on all of the functions that both the COR and ACO will be delegated to perform on this Contract.

[End of Clause]

G-3 252.204-0004 LINE ITEM SPECIFIC: BY FISCAL YEAR
(DFARS PGI)

SEP/2009

The payment office shall make payment using the oldest fiscal year appropriations first, exhausting all funds in the previous fiscal year before disbursing from the next fiscal year. In the event there is more than one ACRN associated with the same fiscal year, the payment amount shall be disbursed from each ACRN within a fiscal year in the same proportion as the amount of funding obligated for each ACRN within the fiscal year.

[End of Clause]

Name of Offeror or Contractor:

SECTION H - SPECIAL CONTRACT REQUIREMENTS

H.1 OPTION WORK EFFORT: the Government has the unilateral right to exercise the Option identified in C.2.5 and its subdivisions, at a price not to exceed that set forth in Section B, CLIN 0002. The Contracting Officer can exercise the Option in whole or in part, in one or more increments, at any time on or after the Contract award date, but in no event later than 18 months after the date of Contract award.

H.2 GOVERNMENT-FURNISHED PROPERTY

H.2.1 The Government may furnish items of Government-owned Property as deemed necessary to assist the Contractor in the performance of contractual requirements.

H.2.2 Upon completion of the Contract, or in the event of a termination of the Contract (either partial or complete, and whether for either default or the convenience of the Government), all Government-owned Property, including both property furnished to the Contractor as well as that acquired by the Contractor for the account of the Government, which will have become surplus or excess to any remaining Contract requirements, shall be reported immediately by the Contractor to the Contracting Officer at the U.S. Army Contracting Command - Warren, ATTN: CCTA-ASG, Warren, MI 48397-5000 for redistribution, shipping instructions, release for disposal, or other actions.

H.2.3 Specific Government-Furnished Property to be provided is/are as follows:

NONE (as of base Contract award)

*** END OF NARRATIVE H0001 ***

<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
H-1 52.204-4005	REQUIRED USE OF ELECTRONIC CONTRACTING	AUG/2012

(a) All contract awards, modifications and delivery orders issued by Army Contracting Command - Warren (DTA) will be issued electronically. The contractor has the option to receive these actions either via the Worldwide Web (WWW) or Electronic Data Interchange (EDI). Many provisions/clauses that appear "by reference," meaning only clause titles and regulation site are listed; their full texts can be found at the website <http://farsite.hill.af.mil/>

(b) In order to be eligible to receive an award under this solicitation, the successful offeror must be registered with the Department of Defense (DOD) System for Award Management (SAM). The SAM registration process may be done electronically at the World Wide Web (WWW) site: <https://www.sam.gov/portal/public/SAM>. (In order to be registered to use EDI, you must use the long form for registration. Certification information, including information on the EDI 838 TPP, must be furnished to the Contracting Officer within 60 calendar days after contract award to complete networking requirements within the Government.)

(c) Worldwide Web Distribution. The contractor will receive an electronic Notice of the Award, Modification, or Delivery Order via e-mail. If you choose the WWW option, you must download the file from the appropriate Army Contracting Command - Warren webpage:

Warren: http://contracting.tacom.army.mil/CFDATA/AWARDS/AWARD_RPT01.cfm
 Rock Island - JMTC: <https://acquisition.army.mil/asfi/>
 Red River Army Depot: <https://acquisition.army.mil/asfi/>
 Anniston Army Depot: <https://acquisition.army.mil/asfi/>

(d) Electronic Data Interchange. If you choose to receive contract awards, modifications and delivery orders through EDI, they will be delivered electronically via the Federal Acquisition Network (FACNET). Federal Standard Version 3050 of Standard X12 from the American National Standards Institute (ANSI) will be used as the format for these electronic transactions.

(1) You must complete the EDI 838 Trading Partner Profile, and must agree (i) to subcontract with a DoD certified VAN or Value Added Service (VAS) provider, or (ii) to become DoD certified as a Value Added Network (VAN). The EDI 838 Training Partner Profile is contained in the basic SAM registration form and includes portions of the registration form which are titled "Optional".

(2) You must select a VAN from the official DoD approved list. DoD Certified VANs are listed at <http://www.acq.osd.mil/dpap/ebiz/VANs.htm>. If your VAN is later removed from the official list, or if you voluntarily drop your initially selected VAN, then you must switch to a VAN that remains on the official DoD approved list. You must maintain an active account on a DoD approved VAN for the entire duration of the contract, beginning no later than the 60th day after award.

(e) Unless otherwise specified elsewhere in the contract, all data items you are required to provide under this contract must be

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submitted electronically. Please go to the following webpage for detailed information about submitting your offer electronically:
<http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>

(f) Additional information can be obtained by sending a message to: usarmy.detroit.acc.mbx.wrn-web-page@mail.mil or by calling (586) 282-7059.

[End of Clause]

Name of Offeror or Contractor:

SECTION I - CONTRACT CLAUSES

The clauses below are incorporated by reference with the same force and effect as if they were given in full text.
The full text of a clause may be accessed electronically at the following web address:

<farsite.hill.af.mil/VFFARA.HTM>

<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE OR DISCLOSURE RESTRICTIONS	JUN/1995
252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT	JUN/1995

*** END OF NARRATIVE I0001 ***

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
I-1	52.202-1	DEFINITIONS	NOV/2013
I-2	52.203-3	GRATUITIES	APR/1984
I-3	52.203-5	COVENANT AGAINST CONTINGENT FEES	MAY/2014
I-4	52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	SEP/2006
I-5	52.203-7	ANTI-KICKBACK PROCEDURES	MAY/2014
I-6	52.203-8	CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	MAY/2014
I-7	52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	MAY/2014
I-8	52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	OCT/2010
I-9	52.204-4	PRINTED OR COPIED DOUBLE-SIDED ON POSTCONSUMER FIBER CONTENT PAPER	MAY/2011
I-10	52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL	JAN/2011
I-11	52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS	JUL/2013
I-12	52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE	JUL/2013
I-13	52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	AUG/2013
I-14	52.209-9	UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS	JUL/2013
I-15	52.211-15	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	APR/2008
I-16	52.215-14	INTEGRITY OF UNIT PRICES	OCT/2010
I-17	52.215-15	PENSION ADJUSTMENTS AND ASSET REVERSIONS	OCT/2010
I-18	52.215-18	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS	JUL/2005
I-19	52.215-23	LIMITATIONS ON PASS-THROUGH CHARGES	OCT/2009
I-20	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	MAY/2014
I-21	52.222-20	CONTRACTS FOR MATERIALS, SUPPLIES, ARTICLES, AND EQUIPMENT EXCEEDING \$15,000	MAY/2014
I-22	52.222-21	PROHIBITION OF SEGREGATED FACILITIES	FEB/1999
I-23	52.222-26	EQUAL OPPORTUNITY	MAR/2007
I-24	52.222-35	EQUAL OPPORTUNITY FOR VETERANS	SEP/2010
I-25	52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	OCT/2010
I-26	52.222-37	EMPLOYMENT REPORTS ON VETERANS	SEP/2010
I-27	52.222-40	NOTIFICATION OF EMPLOYEE RIGHTS UNDER THE NATIONAL LABOR RELATIONS ACT	DEC/2010
I-28	52.222-50	COMBATING TRAFFICKING IN PERSONS	FEB/2009
I-29	52.222-54	EMPLOYMENT ELIGIBILITY VERIFICATION	AUG/2013
I-30	52.223-18	ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING	AUG/2011
I-31	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JUN/2008
I-32	52.227-1	AUTHORIZATION AND CONSENT (DEC 2007) -- ALTERNATE I (APR 1984)	APR/1984
I-33	52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	DEC/2007
I-34	52.229-3	FEDERAL, STATE, AND LOCAL TAXES	FEB/2013
I-35	52.232-2	PAYMENTS UNDER FIXED-PRICE RESEARCH AND DEVELOPMENT CONTRACTS	APR/1984
I-36	52.232-23	ASSIGNMENT OF CLAIMS (MAY 2014) -- ALTERNATE I (APR 1984)	APR/1984
I-37	52.232-25	PROMPT PAYMENT	JUL/2013
I-38	52.232-39	UNENFORCEABILITY OF UNAUTHORIZED OBLIGATIONS	JUN/2013
I-39	52.232-40	PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS	DEC/2013

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I-40	52.233-1	DISPUTES	MAY/2014
I-41	52.233-3	PROTEST AFTER AWARD	AUG/1996
I-42	52.233-4	APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM	OCT/2004
I-43	52.242-13	BANKRUPTCY	JUL/1995
I-44	52.243-1	CHANGES--FIXED PRICE (AUG 1987) -- ALTERNATE V (APR 1984)	APR/1984
I-45	52.244-6	SUBCONTRACTS FOR COMMERCIAL ITEMS	MAY/2014
I-46	52.247-63	PREFERENCE FOR U.S.-FLAG AIR CARRIERS	JUN/2003
I-47	52.249-9	DEFAULT (FIXED-PRICE RESEARCH AND DEVELOPMENT)	APR/1984
I-48	52.253-1	COMPUTER GENERATED FORMS	JAN/1991
I-49	252.203-7000	REQUIREMENTS RELATING TO COMPENSATION OF FORMER DOD OFFICIALS	SEP/2011
I-50	252.203-7001	PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE-CONTRACT-RELATED FELONIES	DEC/2008
I-51	252.203-7002	REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS	SEP/2013
I-52	252.204-7000	DISCLOSURE OF INFORMATION	AUG/2013
I-53	252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	APR/1992
I-54	252.204-7004	ALTERNATE A, SYSTEM FOR AWARD MANAGEMENT	FEB/2014
I-55	252.204-7012	SAFEGUARDING OF UNCLASSIFIED CONTROLLED TECHNICAL INFORMATION	NOV/2013
I-56	252.204-7015	DISCLOSURE OF INFORMATION TO LITIGATION SUPPORT CONTRACTORS	FEB/2014
I-57	252.225-7048	EXPORT-CONTROLLED ITEMS	JUN/2013
I-58	252.227-7013	RIGHTS IN TECHNICAL DATA--NONCOMMERCIAL ITEMS	FEB/2014
I-59	252.227-7014	RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION	FEB/2014
I-60	252.227-7015	TECHNICAL DATA--COMMERCIAL ITEMS	FEB/2014
I-61	252.227-7016	RIGHTS IN BID OR PROPOSAL INFORMATION	JAN/2011
I-62	252.227-7019	VALIDATION OF ASSERTED RESTRICTIONS--COMPUTER SOFTWARE	SEP/2011
I-63	252.227-7025	LIMITATIONS ON THE USE OR DISCLOSURE OF GOVERNMENT-FURNISHED INFORMATION MARKED WITH RESTRICTIVE LEGENDS	MAY/2013
I-64	252.227-7027	DEFERRED ORDERING OF TECHNICAL DATA OR COMPUTER SOFTWARE	APR/1988
I-65	252.227-7030	TECHNICAL DATA--WITHHOLDING OF PAYMENT	MAR/2000
I-66	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	JUN/2013
I-67	252.231-7000	SUPPLEMENTAL COST PRINCIPLES	DEC/1991
I-68	252.232-7003	ELECTRONIC SUBMISSION OF PAYMENT REQUESTS AND RECEIVING REPORTS	JUN/2012
I-69	252.232-7010	LEVIES ON CONTRACT PAYMENTS	DEC/2006
I-70	252.235-7011	FINAL SCIENTIFIC OR TECHNICAL REPORT	NOV/2004
I-71	252.243-7001	PRICING OF CONTRACT MODIFICATIONS	DEC/1991
I-72	252.243-7002	REQUESTS FOR EQUITABLE ADJUSTMENT	DEC/2012
I-73	252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS	JUN/2013
I-74	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	MAR/2008
I-75	252.246-7001	WARRANTY OF DATA--BASIC	MAR/2014
I-76	252.247-7023	TRANSPORTATION OF SUPPLIES BY SEA--BASIC	APR/2014
I-77	52.243-7	NOTIFICATION OF CHANGES	APR/1984

(a) Definitions. Contracting Officer, as used in this clause, does not include any representative of the Contracting Officer.

Specifically Authorized Representative (SAR), as used in this clause, means any person the Contracting Officer has so designated by written notice (a copy of which shall be provided to the Contractor) which shall refer to this subparagraph and shall be issued to the designated representative before the SAR exercises such authority.

(b) Notice. The primary purpose of this clause is to obtain prompt reporting of Government conduct that the Contractor considers to constitute a change to this contract. Except for changes identified as such in writing and signed by the Contracting Officer, the Contractor shall notify the Administrative Contracting Officer in writing promptly, within seven calendar days from the date that the Contractor identifies any Government conduct (including actions, inactions, and written or oral communications) that the Contractor regards as a change to the contract terms and conditions. On the basis of the most accurate information available to the Contractor, the notice shall state --

(1) The date, nature, and circumstances of the conduct regarded as a change;

(2) The name, function, and activity of each Government individual and Contractor official or employee involved in or knowledgeable about such conduct;

(3) The identification of any documents and the substance of any oral communication involved in such conduct;

(4) In the instance of alleged acceleration of scheduled performance or delivery, the basis upon which it arose;

Name of Offeror or Contractor:

(5) The particular elements of contract performance for which the Contractor may seek an equitable adjustment under this clause, including --

(i) What contract line items have been or may be affected by the alleged change;

(ii) What labor or materials or both have been or may be added, deleted, or wasted by the alleged change;

(iii) To the extent practicable, what delay and disruption in the manner and sequence of performance and effect on continued performance have been or may be caused by the alleged change;

(iv) What adjustments to contract price, delivery schedule, and other provisions affected by the alleged change are estimated; and

(6) The Contractors estimate of the time by which the Government must respond to the Contractors notice to minimize cost, delay or disruption of performance.

(c) Continued performance. Following submission of the notice required by paragraph (b) of this clause, the Contractor shall diligently continue performance of this contract to the maximum extent possible in accordance with its terms and conditions as construed by the Contractor, unless the notice reports a direction of the Contracting Officer or a communication from a SAR of the Contracting Officer, in either of which events the Contractor shall continue performance; provided, however, that if the Contractor regards the direction or communication as a change as described in paragraph (b) of this clause, notice shall be given in the manner provided. All directions, communications, interpretations, orders and similar actions of the SAR shall be reduced to writing promptly and copies furnished to the Contractor and to the Contracting Officer. The Contracting Officer shall promptly countermand any action which exceeds the authority of the SAR.

(d) Government response. The Contracting Officer shall promptly, within 14 calendar days after receipt of notice, respond to the notice in writing. In responding, the Contracting Officer shall either --

(1) Confirm that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance;

(2) Countermand any communication regarded as a change;

(3) Deny that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance; or

(4) In the event the Contractors notice information is inadequate to make a decision under subparagraphs (d)(1), (2), or (3) of this clause, advise the Contractor what additional information is required, and establish the date by which it should be furnished and the date thereafter by which the Government will respond.

(e) Equitable adjustments.

(1) If the Contracting Officer confirms that Government conduct effected a change as alleged by the Contractor, and the conduct causes an increase or decrease in the Contractors cost of, or the time required for, performance of any part of the work under this contract, whether changed or not changed by such conduct, an equitable adjustment shall be made --

(i) In the contract price or delivery schedule or both; and

(ii) In such other provisions of the contract as may be affected.

(2) The contract shall be modified in writing accordingly. In the case of drawings, designs or specifications which are defective and for which the Government is responsible, the equitable adjustment shall include the cost and time extension for delay reasonably incurred by the Contractor in attempting to comply with the defective drawings, designs or specifications before the Contractor identified, or reasonably should have identified, such defect. When the cost of property made obsolete or excess as a result of a change confirmed by the Contracting Officer under this clause is included in the equitable adjustment, the Contracting Officer shall have the right to prescribe the manner of disposition of the property. The equitable adjustment shall not include increased costs or time extensions for delay resulting from the Contractors failure to provide notice or to continue performance as provided, respectively, in paragraphs (b) and (c) of this clause.

NOTE: The phrases contract price and cost wherever they appear in the clause, may be appropriately modified to apply to cost-reimbursement or incentive contracts, or to combinations thereof.

(End of Clause)

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Name of Offeror or Contractor:

I-78 252.235-7010 ACKNOWLEDGMENT OF SUPPORT AND DISCLAIMER MAY/1995

(a) The Contractor shall include an acknowledgment of the Government's support in the publication of any material based on or developed under this contract, stated in the following terms: This material is based upon work supported by the -1- under Contract No. -2-.

(b) All material, except scientific articles or papers published in scientific journals, must, in addition to any notices or disclaimers by the Contractor, also contain the following disclaimer: Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the -1-.

(End of clause)

I-79 52.215-19 NOTIFICATION OF OWNERSHIP CHANGES OCT/1997

(a) The Contractor shall make the following notifications in writing:

(1) When the Contractor becomes aware that a change in its ownership has occurred, or is certain to occur, that could result in changes in the valuation of its capitalized assets in the accounting records, the Contractor shall notify the Administrative Contracting Officer (ACO) within 30 days.

(2) The Contractor shall also notify the ACO within 30 days whenever changes to asset valuations or any other cost changes have occurred or are certain to occur as a result of a change in ownership.

(b) The Contractor shall --

(1) Maintain current, accurate, and complete inventory records of assets and their costs;

(2) Provide the ACO or designated representative ready access to the records upon request;

(3) Ensure that all individual and grouped assets, their capitalized values, accumulated depreciation or amortization, and remaining useful lives are identified accurately before and after each of the Contractors ownership changes; and

(4) Retain and continue to maintain depreciation and amortization schedules based on the asset records maintained before each Contractor ownership change.

(c) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(k).

(End of Clause)

I-80 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES APR/1984

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the date of the clause.

(b) The use in this solicitation or contract of any DoD FAR SUPPLEMENT (48 CFR 2) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

(End of Clause)

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Name of Offeror or Contractor:

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 (CDRL)		002	DATA
Attachment 0001	INSTRUCTIONS FOR COMPLETING SF298		001	DATA
Attachment 0002	DATA ITEM DESCRIPTION (DID) DI-MGMT-80227(T) - CONTRACTOR'S PROGRESS, STATUS AND MANAGEMEMNT REPORT (CDRL DATA ITEM A001)	05-SEP-1986	002	EMAIL
Attachment 0003	DID DI-MISC-80711A(T) - SCIENTIFIC AND TECHNICAL REPORTS (CDRL DATA ITEM A002)	21-JAN-2000	001	EMAIL

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

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
K-1	52.204-7	SYSTEM FOR AWARD MANAGEMENT	JUL/2013
K-2	52.225-20	PROHIBITION ON CONDUCTING RESTRICTED BUSINESS OPERATIONS IN SUDAN-- CERTIFICATION	AUG/2009
K-3	252.203-7005	REPRESENTATION RELATING TO COMPENSATION OF FORMER DOD OFFICIALS	NOV/2011
K-4	252.209-7001	DISCLOSURE OF OWNERSHIP OR CONTROL BY THE GOVERNMENT OF A TERRORIST COUNTRY	JAN/2009
K-5	252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS	JAN/2011
K-6	252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT	JUN/1995
K-7	52.204-8	ANNUAL REPRESENTATIONS AND CERTIFICATIONS	MAY/2014

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 541712.

(2) The small business size standard is 500 employees.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)(1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7 is not included in this solicitation, and the offeror is currently registered in the System for Award Management (SAM), and has completed the Representations and Certifications section of SAM electronically, the offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)(1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless--

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.

(iii) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(iv) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that--

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

(v) 52.209-2, Prohibition on Contracting with Inverted Domestic CorporationsRepresentation. This provision applies to solicitations using funds appropriated in fiscal years 2008, 2009, 2010, or 2012.

(vi) 52.209-5, Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.

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(vii) 52.214-14, Place of Performance Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.

(viii) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.

(ix) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.

(A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.

(B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.

(x) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.

(xi) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.

(xii) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.

(xiii) 52.222-38, Compliance with Veterans Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.

(xiv) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xv) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA designated items.

(xvi) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xvii) 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225-3.

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$79,507, the provision with its Alternate II applies.

(D) If the acquisition value is \$79,507 or more but is less than \$100,000, the provision with its Alternate III applies.

(xviii) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xix) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan Certification. This provision applies to all solicitations.

(xx) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran-Representation and Certifications. This provision applies to all solicitations.

(xxi) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to

(A) Solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions; and

(B) For DoD, NASA, and Coast Guard acquisitions, solicitations that contain the clause at 52.219-23, Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns.

(2) The following certifications are applicable as indicated by the Contracting Officer:

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___ (i) 52.219-22, Small Disadvantaged Business Status.

___ (A) Basic.

___ (B) Alternate I.

___ (ii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

___ (iii) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

___ (iv) 52.222-52, Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services-- Certification.

___ (v) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPADesignated Products (Alternate I only).

___ (vi) 52.227-6, Royalty Information.

___ (A) Basic.

___ (B) Alternate I.

___ (vii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The offeror has completed the annual representations and certifications electronically via the SAM Web site accessed through https://www.acquisition.gov. After reviewing the SAM database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause #	Title	Date	Change
_____	_____	_____	_____
_____	_____	_____	_____

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of provision)

K-8 252.204-7007 ALTERNATE A, ANNUAL REPRESENTATIONS AND CERTIFICATIONS MAR/2014

Substitute the following paragraphs (d) and (e) for paragraph (d) of the provision at FAR 52.204-8:

(d)(1) The following representations or certifications in the System for Award Management (SAM) database are applicable to this solicitation as indicated:

(i) 252.209-7001, Disclosure of Ownership or Control by the Government of a Terrorist Country. Applies to all solicitations expected to result in contracts of \$150,000 or more.

(ii) 252.209-7003, Reserve Officer Training Corps and Military Recruiting on CampusRepresentation. Applies to all solicitations with institutions of higher education.

(iii) 252.216-7008, Economic Price AdjustmentWage Rates or Material Prices Controlled by a Foreign Government. Applies to solicitations for fixed-price supply and service contracts when the contract is to be performed wholly or in part in a foreign country,

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and a foreign government controls wage rates or material prices and may during contract performance impose a mandatory change in wages or prices of materials.

(iv) 252.225-7042, Authorization to Perform. Applies to all solicitations when performance will be wholly or in part in a foreign country.

(v) 252.229-7012, Tax Exemptions (Italy)Representation. Applies to solicitations and contracts when contract performance will be in Italy.

(vi) 252.229-7013, Tax Exemptions (Spain)Representation. Applies to solicitations and contracts when contract performance will be in Spain.

(vii) 252.247-7022, Representation of Extent of Transportation by Sea. Applies to all solicitations except those for direct purchase of ocean transportation services or those with an anticipated value at or below the simplified acquisition threshold.

(2) The following representations or certifications in SAM are applicable to this solicitation as indicated by the Contracting Officer:

- (i) 252.209-7002, Disclosure of Ownership or Control by a Foreign Government.
- (ii) 252.225-7000, Buy AmericanBalance of Payments Program Certificate.
- (iii) 252.225-7020, Trade Agreements Certificate.
- Use with Alternate I.
- (iv) 252.225-7031, Secondary Arab Boycott of Israel.
- (v) 252.225-7035, Buy AmericanFree Trade AgreementsBalance of Payments Program Certificate.
- Use with Alternate I.
- Use with Alternate II.
- Use with Alternate III.
- Use with Alternate IV.
- Use with Alternate V.

(e) The offeror has completed the annual representations and certifications electronically via the SAM website at <https://www.acquisition.gov/>. After reviewing the ORCA database information, the offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in FAR 52.204-8(c) and paragraph (d) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer, and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by provision number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR/DFARS Provision #	Title	Date	Change
_____	_____	_____	_____
_____	_____	_____	_____

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications located in the SAM database.

(End of provision)

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Administrative proceeding means a non-judicial process that is adjudicatory in nature in order to make a determination of fault or liability (e.g., Securities and Exchange Commission Administrative Proceedings, Civilian Board of Contract Appeals Proceedings, and Armed Services Board of Contract Appeals Proceedings). This includes administrative proceedings at the Federal and State level but only in connection with performance of a Federal contract or grant. It does not include agency actions such as contract audits, site visits, corrective plans, or inspection of deliverables.

Federal contracts and grants with total value greater than \$10,000,000 means--

(1) The total value of all current, active contracts and grants, including all priced options; and

(2) The total value of all current, active orders including all priced options under indefinite-delivery, indefinite-quantity, 8(a), or requirements contracts (including task and delivery and multiple-award Schedules).

Principal means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(b) The offeror [] has [] does not have current active Federal contracts and grants with total value greater than \$10,000,000.

(c) If the offeror checked "has" in paragraph (b) of this provision, the offeror represents, by submission of this offer, that the information it has entered in the Federal Awardee Performance and Integrity Information System (FAPIS) is current, accurate, and complete as of the date of submission of this offer with regard to the following information:

(1) Whether the offeror, and/or any of its principals, has or has not, within the last five years, in connection with the award to or performance by the offeror of a Federal contract or grant, been the subject of a proceeding, at the Federal or State level that resulted in any of the following dispositions:

(i) In a criminal proceeding, a conviction.

(ii) In a civil proceeding, a finding of fault and liability that results in the payment of a monetary fine, penalty, reimbursement, restitution, or damages of \$5,000 or more.

(iii) In an administrative proceeding, a finding of fault and liability that results in--

(A) The payment of a monetary fine or penalty of \$5,000 or more; or

(B) The payment of a reimbursement, restitution, or damages in excess of \$100,000.

(iv) In a criminal, civil, or administrative proceeding, a disposition of the matter by consent or compromise with an acknowledgment of fault by the Contractor if the proceeding could have led to any of the outcomes specified in paragraphs (c)(1)(i), (c)(1)(ii), or (c)(1)(iii) of this provision.

(2) If the offeror has been involved in the last five years in any of the occurrences listed in (c)(1) of this provision, whether the offeror has provided the requested information with regard to each occurrence.

(d) The offeror shall post the information in paragraphs (c)(1)(i) through (c)(1)(iv) of this provision in FAPIS as required through maintaining an active registration in the System for Award Management database via <https://www.acquisition.gov> (see 52.204-7).

Principal means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

(End of provision)

K-10 252.209-7993 REPRESENTATION BY CORPORATIONS REGARDING AN UNPAID DELINQUENT TAX FEB/2014
 (DEV 2014- LIABILITY OR A FELONY CONVICTION UNDER ANY FEDERAL LAW--FISCAL YEAR
 00009) 2014 APPROPRIATIONS (DEVIATION 2014-00009)

(a) In accordance with sections 8113 and 8114 of the Department of Defense Appropriations Act, 2014, and sections 414 and 415 of the Military Construction and Veterans Affairs and Related Agencies Appropriations Act, 2014 (Public Law 113-76, Divisions C and J), none of the funds made available by those divisions (including Military Construction funds) may be used to enter into a contract with any corporation that--

(1) Has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for

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collecting the tax liability, where the awarding agency is aware of the unpaid tax liability, unless the agency has considered suspension or debarment of the corporation and made a determination that this further action is not necessary to protect the interests of the Government; or

(2) Was convicted of a felony criminal violation under any Federal law within the preceding 24 months, where the awarding agency is aware of the conviction, unless the agency has considered suspension or debarment of the corporation and made a determination that this action is not necessary to protect the interests of the Government.

(b) The Offeror represents that--

(1) It is [] is not [] a corporation that has any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability,

(2) It is [] is not [] a corporation that was convicted of a felony criminal violation under a Federal law within the preceding 24 months.

(End of provision)

K-11 52.215-4005 MINIMUM ACCEPTANCE PERIOD OCT/1985
(TACOM)

(a) ACCEPTANCE PERIOD, as used in this provision, means the number of calendar days available to the Government for awarding a contract from the date specified in this solicitation for receipt of offers.

(b) The Government requires a minimum acceptance period of sixty (60) calendar days.

(c) In the space provided immediately below, offers may specify a longer acceptance period than the Government's minimum requirement.

The offeror allows the following acceptance period: _____ calendar days.

(d) An offer allowing less than the Government's minimum acceptance period may be rejected.

[End of Provision]

K-12 52.215-4010 AUTHORIZED NEGOTIATORS MAR/2013
(TACOM)

Please identify, below, the representatives that are authorized to negotiate on your organization's behalf with the Government in connection with this request for proposals or request for information:

PERSONS AUTHORIZED TO NEGOTIATE

NAME: _____
TITLE: _____
TELEPHONE NUMBER: _____
EMAIL ADDRESS: _____

NAME: _____
TITLE: _____
TELEPHONE NUMBER: _____
EMAIL ADDRESS: _____

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[End of Provision]

K-13 52.223-4002 USE OF CLASS I OZONE-DEPLETING SUBSTANCES (CIODS)
(TACOM)

OCT/2008

(a) Definitions.

(1) Class I and Class II Ozone-Depleting Substances (CIODS) refers to the class of substances identified in Section 602(a) of the Clean Air Act, (42 U.S.C. 7671a(a)), complete list provided at: <http://www.epa.gov/ozone/science/ods/index.html>.

(2) Directly requires the use of CIODS means that the Government's specification or technical data package, at any tier, explicitly requires the use of any Class I Ozone-Depleting Substance (CIODS) in performance of the contract.

(3) Indirectly requires the use of CIODS means that the Government's specification or technical data package, while not explicitly requiring the use of any CIODS, does require a feature that you can meet or produce only by the use of CIODS.

(b) Per Section 326 of Public Law 102-484, the Army cannot award any contract that directly or indirectly requires the use of CIODS without the approval of the Senior Acquisition Official, per current Army Policy the approval authority is the Army Acquisition Executive. Thus, no CIODS shall be used in meeting the requirements of this contract. If the use of CIODS is required in the performance of this contract, please notify the Contracting Officer immediately in writing.

(c) No Class II Ozone Depleting Substances shall be required in the performance of this contract without government approval. If the use of Class II ODS is required in the performance of this contract, please notify the Contracting Officer immediately in writing.

[End of Provision]

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SECTION L - INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS

L.1 IDENTIFICATION OF PROPOSED PAYABLE MILESTONES IN PROPOSAL

L.1.1 As stated in Provision L-5, elsewhere in this Section L, the Government intends to award a firm-fixed-price contract as a result of this Solicitation, where fixed-price payments are based on completion of payable milestone events.

L.1.2 Accordingly, in its proposal the Offeror is requested to specify a proposed schedule of payable milestones for use in the eventual contract, to include the following:

L.1.2.1 A unique name or designation for each milestone;

L.1.2.2 A proposed due date or performance completion date for each milestone, expressed in terms of a number of days after contract award.

L.1.2.3 Identification of the performance event(s), contract deliverable(s), or critical decision point(s) associated with each milestone, to include reference to the paragraph(s) in the Statement of Work relating to such performance events or deliverables.

L.1.2.4 A proposed dollar amount for each payable milestone, that bears a reasonable relationship to the effort required to achieve such milestone.

L.1.3 Each proposed performance event or deliverable should be one whose completion can be objectively verified by the Government.

L.1.4 The Government is not bound to accept any offeror's proposed schedule of payable milestones, but will consider any such schedule that is provided with the proposal.

*** END OF NARRATIVE L0001 ***

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
L-1	52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE	APR/1991
L-2	52.214-35	SUBMISSIONS OF OFFERS IN U.S. CURRENCY	APR/1991
L-3	52.215-16	FACILITIES CAPITAL COST OF MONEY	JUN/2003
L-4	52.215-22	LIMITATIONS ON PASS-THROUGH CHARGES -- IDENTIFICATION OF SUBCONTRACT EFFORT	OCT/2009
L-5	52.216-1	TYPE OF CONTRACT	APR/1984

The Government contemplates award of a firm fixed price contract resulting from this solicitation.

(End of Provision)

L-6	52.233-2	SERVICE OF PROTEST	SEP/2006
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(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from ACC-WRN, ATTN: CCTA Protest Coordinator, Mail Stop 315, 6501 East 11 Mile Road, Warren, MI 48397-5000.

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

(End of Provision)

L-7	52.252-5	AUTHORIZED DEVIATIONS IN PROVISIONS	APR/1984
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(a) The use in this solicitation of any Federal Acquisition Regulation (48 CFR Chapter 1) provision with an authorized deviation is

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indicated by the addition of (DEVIATION) after the date of the provision.

(b) The use in this solicitation of any DoD FAR SUPPLEMENT (48 CFR Chapter 2) provision with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

(End of clause)

L-8 52.215-4404 DATA AND COMMUNICATIONS SUBMITTED TO THE GOVERNMENT ELECTRONICALLY MAY/2002

(a) The Government often employs contractors as system administrators to operate and maintain Government computer systems. These systems include local area networks, web sites, databases, other electronic records, e-mail accounts, other electronic data transfer mechanisms and computer software. The employees of these contracted system administrators sign nondisclosure agreements obligating them not to reveal information contained in files, documents, computers or systems that they administer. However, unless such information is protected in some way, contracted system administrators do have the ability to access such information. For further information on security issues, see <http://contracting.tacom.army.mil/acqinfo/ebidnotice.htm>

(b) Potential contractors as well as any other parties are thus advised to take steps needed to prevent access by contracted system administrators to information submitted electronically to the Government. Absent such steps, it is assumed that contracted system administrators are permitted the capability to access the data. The access will be limited to that which is necessary for the contract system administrator to perform its duties for the Government. The access shall be subject to the condition that third party information is not to be revealed by the contracted system administrator.

[End of Provision]

L-9 52.215-4405 ACCESS TO THE DETROIT ARSENAL; IDENTIFYING CONTRACTOR EMPLOYEES; NON- APR/2013
DISCLOSURE STATEMENT

- a) APPLICABILITY. This requirement is only applicable to contractor employees working at, or visiting, Detroit Arsenal. The term contractor employee includes employees, agents, or representatives and all employees, agents, or representatives and all employees, agents or representatives of all subcontractors, suppliers and consultants.
- b) DETROIT ARSENAL ACCESS.
- 1) All contractor personnel entering the installation and requiring unescorted access must have a valid purpose to enter and be sponsored by a U.S. government organization or a contractor providing support on the installation. They must have their identity proofed and vetted through the National Crime Information Center (NCIC) database, and be issued, or in possession of an authorized and valid access credential from the Detroit Arsenal installation.
- 2) At the discretion of the Senior Commander, U.S. Army Garrison Detroit Arsenal, any individual known to have a criminal background involving violence or meets the disqualifying standards in the Final Credentialing Standards for Issuing Personal Identity Verification Cards under HSPD-12 (31 Jul 2008), may be denied access to the Detroit Arsenal. Fingerprinting of employees and any other security procedures deemed necessary for the security of Detroit Arsenal (vehicle searches or x-raying packages, bags, briefcases) may be required based on the Force Protection Condition level at the time of access and whether the installation or building location is identified as a Restricted Area or Mission Essential Vulnerable Area (MEVA).
- c) BADGES.
- 1) Badges/Passes. Contractor employees entering the Detroit Arsenal are responsible for obtaining, and then returning, security identification badges/passes and vehicle registration decals/passes. Badges are valid only for the date spans indicated, by the government, on each badge application form (STA Form 17).
- 2) Obtaining Badges. Government sponsor must prepare and submit a properly completed STA Form 17 (Visitor Notification and/or Temporary Security Identification Badge Application) to the Detroit Arsenal Visitor Control Center not less than 96 hours prior to scheduled visit.
- 3) Returning Badges. The government sponsor is responsible to ensure the security identification badges are returned to the Visitor Control Center, Bldg 232, upon expiration or termination of the contract relationship with the contract employee. Failure to comply with the requirements in this paragraph may be grounds for withholding any funds due the contractor until completion of the requirement, notwithstanding any other clause or requirements in the contract. Failure to comply may also be taken into account by the government in evaluating the contractors past performance on future acquisitions.
- 4) Badge Guidance.
- a) All contractor employees, while on the premises at the Detroit Arsenal, shall continually wear the badge, which shall be visible at all times between the neck and waist of the individual. Badges will be secured from public view when off post and will not be left in privately owned or contractor vehicles unattended. Stolen or lost badges will be promptly reported to DES, USAG Detroit.
- b) The identification badge or pass issued to contractor employee(s) is for their own use only. Misuse of badge or pass, such as permitting others to use it can result in criminal charges under Title 18 USC 499 and 701, and barring the employee from the Detroit Arsenal property.

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- c) If the contractor obtains a new or follow-on contract that again requires physical access to the Detroit Arsenal property, he shall obtain new badges for his employees, indicating the new or follow-on contract number. The security policies described in this clause apply to any contractor employee on base in connection with any contract with TACOM-Warren.
- d) MEETING ATTENDANCE. Any contractor employee attending meetings with Government employees within or outside the Detroit Arsenal boundaries, shall, at the beginning of the meeting, announce that he/she is a contractor employee. He/she must state the Contractor's name and address, and state the name of all other companies or persons that (a) currently employ him, or (b) that he currently represents. In addition, for the duration of the meetings, the contractor employee shall wear a second visible badge that displays the contractor's company name.
- e) CLASSIFIED ACCESS. If a visiting contractor is working on a classified contract, his/her visit request, with security clearance information, must be sent to the G2, TACOM LCMC (SMO Code W4GGAA, AMSTA-CSS, Office Phone 586-282-6262, Fax 586-282-6362) and their sponsoring activity. Government employees hosting meetings will verify contractor employees security clearance information with their supporting Security Coordinator or G2, TACOM LCMC using JPAS or the TACOM LCMC Access Roster prior to providing contractor access to classified information based on the approved DD254.
- f) REGULATORY COMPLIANCE. All contractor employees working on the U.S. Army installation, Detroit Arsenal, in the State of Michigan, in connection with this contract, shall conform to all applicable federal or state laws, and published rules and regulations of the Departments of Defense and Army. Also, they must comply with any existing applicable regulations promulgated by Detroit Arsenal, TACOM LCMC, or the Senior Commander. Additionally, all contractor employees working on classified contracts shall comply with the requirements of the National Industrial Security Program (NISPO) and Army Regulation 380-5, Department of the Army Information Security Program and their approved DD254.
- g) NON-DISCLOSURE AGREEMENT. Each contractor employee working at the Detroit Arsenal property under this contract shall sign a Non-disclosure Agreement on their company's letterhead prior to commencing work under the contract or obtaining the badges permitting access to the property. There will be one Non-disclosure Agreement for each employee. The Non-disclosure Agreement shall be in the format indicated below. A copy of the agreement will be made a part of the contract file.

FORMAT FOR
NON-DISCLOSURE AGREEMENT

I, _____, an employee of _____, a Contractor providing support services/supplies to Detroit Arsenal, TACOM LCMC, or other tenant organizations (hereinafter Detroit Arsenal), and likely to have access to nonpublic information (hereinafter RECIPIENT), under contract number _____, agree to and promise the following:

WHEREAS RECIPIENT is engaged in delivery support services to Detroit Arsenal under contract; and

WHEREAS, It is the intention of Detroit Arsenal to protect and prevent unauthorized access to and disclosure of nonpublic information to anyone other than employees of the United States Government who have a need to know; and, WHEREAS, Detroit Arsenal acknowledges that RECIPIENT will from time to time have or require access to such nonpublic information in the course of delivering the contract services; and,

WHEREAS, RECIPIENT may be given or other have access to nonpublic information while providing such services; and,

WHEREAS, "nonpublic information" includes, but is not limited to such information as:

Proprietary information (e.g., information submitted by a contractor marked as proprietary. However please note: THIS NON-DISCLOSURE STATEMENT IS NOT SUFFICIENT TO ALLOW CONTRACTORS ACCESS TO ANOTHER CONTRACTORS PROPRIETARY INFORMATION. FOR THAT, A SEPARATE CONTRACTOR TO CONTRACTOR AGREEMENT IS REQUIRED.);

Advanced procurement information (e.g., future requirements, statements of work, and acquisition strategies);

Source selection information (SSI) (e.g., bids before made public, source selection plans, and rankings of proposals)(PLEASE NOTE: THIS AGREEMENT ALONE DOES NOT AUTHORIZE ACCESS TO SSI--ONLY PCO OR SOURCE SELECTION AUTHORITY CAN AUTHORIZE SUCH ACCESS.);

Trade secrets and other confidential business information (e.g., confidential business information submitted by the contractor);

Attorney work product;

Information protected by the Privacy Act (e.g., social security numbers, home addresses and telephone numbers); and

Other sensitive information that would not be released by Detroit Arsenal under the Freedom of Information Act (e.g., program, planning and budgeting system information);

NOW THEREFORE, RECIPIENT agrees to and promises as follows:

RECIPIENT shall not seek access to nonpublic information beyond what is required for the performance of the support services contract;

RECIPIENT will ensure that his or her status as a contractor employee is known when seeking access to and receiving such nonpublic information of Government employees;

As to any nonpublic information to which RECIPIENT has or is given access, RECIPIENT shall not use or disclose such information for any purpose other than providing the contract support services, and will not use or disclose the information to any unauthorized person or entity for personal, commercial, or any unauthorized purposes; and

If RECIPIENT becomes aware of any improper release or disclosure of such nonpublic information, RECIPIENT will advise the contracting officer verbally within two business days, followed up in writing within five business days. The RECIPIENT agrees to return any nonpublic information given to him or her pursuant to this agreement, including any transcriptions by RECIPIENT of nonpublic information to which RECIPIENT was given access, if not already destroyed, when RECIPIENT no longer performs work under the contract.

CONTINUATION SHEET**Reference No. of Document Being Continued**

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MOD/AMD

Name of Offeror or Contractor:

RECIPIENT understands that any unauthorized use, release or disclosure of nonpublic information in violation of this Agreement will subject the RECIPIENT and the RECIPIENT's employer to administrative, civil or criminal remedies as may be authorized by law.

RECIPIENT: _____ (signature)

PRINTED NAME: _____

TITLE: _____

EMPLOYER: _____

[End of Provision]

L-10

DA, 52.215-
5111

ABILITY ONE SUBCONTRACTING CREDIT

APR/2010

a. In accordance with Public Law 102-396, AbilityOne organizations will be afforded the maximum practical opportunity to participate as subcontractors and suppliers in the performance of this contract.

b. As prescribed by 10 U.S.C. 2401d and Section 9077 of Public Law 102-396, and in accordance with DFARS 219-703, Eligibility requirements for participating in the program, offers may receive credit toward the small business subcontracting goal for subcontracts placed with qualified nonprofit agencies participating in the AbilityOne program. AbilityOne organizations are qualified nonprofit agencies for the blind and other severely disabled that are approved by the Committee for Purchase from People Who Are Blind or Severely Disabled under the Javits-Wagner-O'Day Act (41 U.S.C. 46-48).

c. For additional information on AbilityOne's program and products see <http://www.abilityone.gov/index.html>

d. For additional information on DoD activities in support of AbilityOne, see http://www.acq.osd.mil/dpap/cpic/cp/abilityone_program.html

[End of provision]

L-11

52.233-4001

HQ-AMC LEVEL PROTEST PROCEDURES

OCT/2013

Complete AMC Protest Procedures can be found at: <http://www.amc.army.mil/pa/COMMANDCOUNSEL.asp>

An agency protest may be filed with either the contracting officer or to HQAMC but not both following the procedures listed on the website above.

[End of Provision]

CONTINUATION SHEET**Reference No. of Document Being Continued****Page 36 of 36****PIIN/SIIN** W56HZV-14-R-0331**MOD/AMD**

Name of Offeror or Contractor:

SECTION M - EVALUATION FACTORS FOR AWARD

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
M-1	52.209-4011 (TACOM)	CONTRACTOR RESPONSIBILITY AND ELIGIBILITY FOR AWARD	JAN/2001

(a) We'll award a contract to the offeror that:

- (1) submits the lowest evaluated offer if award is based on price only, or the offer that provides the best value to the Government if factors in addition to price are identified elsewhere in this solicitation, and
- (2) submits a bid or proposal that meets all the material requirements of this solicitation, and
- (3) meets all the responsibility criteria at FAR 9.104.

(b) To make sure that you meet the responsibility criteria at FAR 9.104 we may:

- (1) arrange a visit to your plant and perform a preaward survey;
- (2) ask you to provide financial, technical, production, or managerial background information.

(c) If you don't provide us with the data we ask for within 7 days from the date you receive our request, or if you refuse to have us visit your facility, we may determine you nonresponsible.

(d) If we visit your facility, please make sure that you have current certified financial statements and other data relevant to your bid or proposal available for our team to review.

[End of Provision]

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

- A. CONTRACT LINE ITEM NO. : 0002
- B. EXHIBIT: A
- C. CATEGORY:
- D. SYSTEM/ITEM: TESTING/DEVELOPMENT OF HIGH CAPACITY LIGHTWEIGHT TRACK (HCLWT)
- E. SOLICITATION/PR NO. : W56HZV-14-R-0331
CONTRACT NO. : W56HZV-14-C-xxxx
- F. CONTRACTOR: AXEL PRODUCTS, INC.

- 1. DATA ITEM NO. : A001
- 2. TITLE OF DATA ITEM: Contractor's Progress, Status, and Management Report
- 3. SUBTITLE: Contractor's Quarterly Project Status Reports
- 4. AUTHORITY: DI-MGMT-80227(T)
- 5. CONTRACT REFERENCE: C.2.2.2.4, C.2.2.2.6, and C.4.1.1
- 6. REQUIRING OFFICE: AMSRD-TAR-R
- 7. DD250 REQ'D. :
- 8. APP. CODE: N/A
- 9. DIST. STATEMENT: see Block 16
- 10. FREQUENCY: QUARTERLY (see Block 16)
- 11. AS OF DATE: N/A
- 12. DATE OF FIRST SUB. : see Block 16
- 13. DATE OF SUBS. SUB. : see Block 16

14. DISTRIBUTION ADDRESSEES - E-MAIL REPORTS TO THE FOLLOWING:

- a. TARDEC CONTRACTING OFFICER'S REPRESENTATIVE (COR) WILLIAM BRADFORD: WILLIAM.G.BRADFORD16.CIV@MAIL.MIL
- b. ACC-WRN CONTRACT SPECIALIST MICHAEL CIACIUCH: MICHAEL.R.CIACIUCH.CIV@MAIL.MIL
- c. DCMA DETROIT ADMINISTRATIVE CONTRACTING OFFICER (ACO): TO BE PROVIDED AT TIME OF AWARD

15. TOTAL: one each

16. REMARKS: The Contractor shall submit Quarterly Progress Reports. Initial report is due 60 days after the date of Contract award. Updates are required every 90 days until Contract performance is complete.

- 17. PRICE GROUP: N/A
- 18. ESTIMATED TOTAL PRICE: N/A

- 1. DATA ITEM NO. : A002
- 2. TITLE OF DATA ITEM: Scientific and Technical Reports
- 3. SUBTITLE: Draft & Final Work Directive Scientific and Technical Reports
- 4. AUTHORITY: DI-MISC-80711A(T)
- 5. CONTRACT REFERENCE: C.4.1.2
- 6. REQUIRING OFFICE: AMSRD-TAR-R
- 7. DD250 REQ'D. :
- 8. APP. CODE: N/A
- 9. DIST. STATEMENT REQUIRED: see Block 16
- 10. FREQUENCY: see Block 16
- 11. AS OF DATE: N/A
- 12. DATE OF FIRST SUB. : see Block 16
- 13. DATE OF SUBS. SUB. : see Block 16

14. DISTRIBUTION ADDRESSEES - E-MAIL REPORTS TO THE FOLLOWING:

- a. TARDEC CONTRACTING OFFICER'S REPRESENTATIVE (COR) WILLIAM BRADFORD: WILLIAM.G.BRADFORD16.CIV@MAIL.MIL
- b. ACC-WRN CONTRACT SPECIALIST MICHAEL CIACIUCH: MICHAEL.R.CIACIUCH.CIV@MAIL.MIL
- c. DCMA DETROIT ADMINISTRATIVE CONTRACTING OFFICER (ACO): TO BE PROVIDED AT TIME OF AWARD

15. TOTAL: one each

16. REMARKS: the Contractor shall submit one copy of the Draft Scientific & Technical Report to the COR NLT 45 calendar days prior to the end of the contractual performance period. The COR will review the Draft Report and return it to the Contractor, with any necessary comments, within 15 calendar days of receiving it, and the Contractor shall accordingly further revise the Report as needed, based on the COR's comments, and then submit the Final Scientific & Technical Report to all of the parties identified in Block 14 above prior to the contractual performance period end date.

17. PRICE GROUP: N/A

18. ESTIMATED TOTAL PRICE: N/A

*****THE FOLLOWING APPLIES TO ALL OF THE DATA ITEMS LISTED ABOVE*****

Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

- (1) Files readable using Microsoft PowerPoint XP (TACOM can currently read OFFICE XP Professional* and lower).
- (2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.
- (3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

NOTES:

- (a) The above formats may be submitted in compressed form using self-extracting files.
- (b) Files may be read-only, password protected.
 - a. Acceptable media: the Contractor shall submit reports via e-mail; if e-mail is not workable, other acceptable media include CD-ROM or a Parcel Post-type of file sending system. Identify the software application and version used to create each file submitted.
 - (1) E-MAIL. Maximum size of each e-mail message shall be 3.5 megabytes (MBs). Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary; however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3, etc."
 - (2) CD-ROM via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: select only one medium by which to transmit each report; for instance, do not submit a report via both e-mail and CD-ROM.

INSTRUCTIONS FOR COMPLETING SF 298

1. REPORT DATE. Full publication date, including day and month, if available. Must cite at least the year; e.g. 30-06-1998, xx-06-1998, xxxx-1998.
2. REPORT TYPE. State the type of report, such as final, technical, interim, memorandum, master's thesis, progress, quarterly, research, special, group study, etc.
3. DATES COVERED. Indicate the time during which the work was performed and the report was written; e.g., Jun 2001 - Jun 2002, 1-10 Jun 2003, May - Nov 2004, Nov 2002.
4. TITLE. Enter title and subtitle with volume number and part number, if applicable. On classified documents, enter the title classification in parentheses.
 - 5.a. CONTRACT NUMBER. Enter the Contract number as it appears in the Report; e.g., W56HZV-09-C-0585.
 - 5.b. GRANT NUMBER. Enter all grant numbers (if applicable) as they appear in the Report; e.g., AFOSR-82-1234.
 - 5.c. PROGRAM ELEMENT NUMBER. Enter all program element numbers (if applicable) as they appear in the Report; e.g., 61101A.
 - 5.d. PROJECT NUMBER. Enter all project numbers (if applicable) as they appear in the Report; e.g., 1F665702D1257, ILIR.
 - 5.e. TASK NUMBER. Enter all task numbers (if applicable) as they appear in the Report; e.g., 05, RF0330201, T4112.
 - 5.f. WORK UNIT NUMBER. Enter all work unit numbers (if applicable) as they appear in the Report; e.g., 001, FAPL30480105.
6. AUTHOR(S). Enter name(s) of person(s) responsible for writing the Report, performing the research, or credited with the content of the Report. The form of entry is the last name, first name, middle initial, and additional qualifiers separated by commas; e.g., Smith, Richard, J, Jr.
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES): leave blank.
8. PERFORMING ORGANIZATION REPORT NUMBER: leave blank.
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES). Enter "U.S. Army Tank-Automotive Research Development & Engineering Center, Warren, Michigan 48397-5000".
10. SPONSOR/MONITOR'S ACRONYM(S). Enter "TARDEC".
11. SPONSOR/MONITOR'S REPORT NUMBER(S). Enter Report number as assigned by the sponsoring/monitoring agency, if available/known; e.g., BRL-TR-829, -215.
12. DISTRIBUTION/AVAILABILITY STATEMENT. Use agency-mandated availability statements to indicate the public availability or distribution limitations of the Report (refer to instructions on the DD Form 1423). If additional limitations/restrictions or special markings are indicated, follow agency authorization procedures; e.g., RD/FRD, PROPIN, ITAR, etc. Include copyright information.
13. SUPPLEMENTARY NOTES. Enter information not included elsewhere, such as: prepared in cooperation with; translation of; report supersedes; old edition number, etc.
14. ABSTRACT. A brief (approximately 200 words) factual summary of the most significant information.
15. SUBJECT TERMS. Key words or phrases identifying major concepts in the Report.