

CONTRACT DATA REQUIREMENTS LIST (CDRL)

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 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 the burden, to the Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0199), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

A. CONTRACT LINE ITEM NO. 9002				B. EXHIBIT B		C. CATEGORY: TDP _ TM _ OTHER <input checked="" type="checkbox"/>					
D. SYSTEM/ITEM JLTV				E. CONTRACT/PR NO.				F. CONTRACTOR			
1. DATA ITEM NO. B001		2. TITLE OF DATA ITEM Corrosion Prevention and Control Plan (CPCP) and Finish Specification Report						3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) DI-MFFP-81403(T), DI-MFFP-81402 SEE BLK 16				5. CONTRACT REFERENCE C.2.1.2.3				6. REQUIRING OFFICE SFAE-CSS-JL			
7. DD 250 REQ LT		9. DIST STATEMENT C		10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION SEE BLK 16			
8. APP CODE N/A				11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES	
								Draft		Final	
								Reg		Repro	
16. REMARKS								SEE BLK 16			
<p>Block 4: DI-MFFP-81403 is tailored as follows: Application 7.1 and Preparation 10.3, delete "paragraph 5.1.1 of MIL-STD-1568" and replaced with "Corrosion Prevention and Control Guidebook for Military Systems and Equipment Spiral 4." This Guidebook is published by the Under Secretary of Defense for Acquisition, Technology, and Logistics [USD (AT&L)], and is available for downloading from the CorrDefense website - https://www.corrdefense.org/default.aspx. To download a copy of the guidebook, paste the link into your browser's address bar, click the "Advanced Search" on the homepage, click "Exact Match," type the search phrase "CPC Planning Guidebook," and press enter. A link will appear for downloading the file.</p> <p>Application 7.4 and Preparation 10.4.2, "airframe" is deleted and replaced with "chassis systems."</p> <p>Application 7.4 and Preparation 10.4.5, "avionics" is deleted and replaced with "electrical/electronics."</p> <p>Application 7.4 and Preparation 10.4.6, the phrase "support equipment" shall include commercial off the shelf items and Government furnished items.</p> <p>Application 10.4, delete "The following appendices, organized by subsystem, shall reference applicable paragraphs of documents containing information described in 10.3, " and replaced with "The Contractor shall include appendices for all subsystems, organized by subsystem, with applicable references to documents containing information described in 10.3. Each appendix shall include a table of corrosion prevention materials containing material codes, names, descriptions, material suppliers' names, process specifications, supplier names, and descriptions of where each coating will be used. Each appendix shall also include representative design drawings that identify materials and shows how the design approach prevents and controls corrosion to meet the required service life."</p> <p>Block 12: Initial submission is required at the Functional Baseline Review (FBR).</p> <p>Block 13: Subsequent submissions are due annually and shall include all data changes resulting from engineering changes within the past year along and a summary list of all changes. Changes shall be highlighted in yellow.</p> <p>Block 14: This information shall be submitted electronically to the JLTV SharePoint server. The Government IPT lead shall be notified when the data has been submitted. All submissions shall be prepared and delivered in an editable and Microsoft Office 2007 file format (MS Word, MS Excel).</p>											
								15. TOTAL →			
G. PREPARED BY JPO JLTV				H. DATE 26 AUG 2014		I. APPROVED BY Pete Manternach				J. DATE 06 SEP 2014	

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A. CONTRACT LINE ITEM NO. 9002	B. EXHIBIT B	C. CATEGORY: TDP <input type="checkbox"/> TM <input type="checkbox"/> OTHER <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM JLTV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. B002	2. TITLE OF DATA ITEM Joint Interfaces, Materials, and Coatings	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) DI-SESS-81000 SEE BLK 16	5. CONTRACT REFERENCE C.2.1.2.3.1	6. REQUIRING OFFICE SFAE-CSS-JL
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7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION SEE BLK 16	
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES
					<input type="checkbox"/> Draft <input type="checkbox"/> Final <input type="checkbox"/> Reg <input type="checkbox"/> Repro

16. REMARKS	
Block 4: The DID is tailored as follows: Requirements: 2. General. Delete 2b and 2c. Requirements: 3. Format. Add clarification = "The Product Models (3D CAD/CAE) shall be a format that can be converted to ISO 10303 format while preserving data per AP 203, AP 204, AP 209 AP 210, AP 235." Requirements: 4. Content. Delete – 4.a, 4.b, 4.d, 4.j, 4.k, 4.n, 4.o, 4.p, and 4.q Requirements: 7. Selection of drawings. Add – "The complete CAD model for all JLTV variants and trailers shall be included." Requirements: 7.3 Standard Microcircuit Drawings. Delete.	SEE BLK 16
Block 8: Comments from the Government shall be addressed in an updated re-submission by the Contractor within 30 business days of receipt of Government comments.	
Block 12: Initial submission is required at the Functional Baseline Review (FBR).	
Block 13: Subsequent submissions are due annually and shall include all data changes resulting from engineering changes within the past year along and a summary list of all changes. Changes shall be highlighted in yellow.	
Block 14: Product Models (CAD/CAE) and associated files shall be submitted on a physical data storage device such as a DVD or portable hard drive, and the device shall be properly labeled with contractor name, CDRL data item number, and distribution statement. Portions of the CDRL other than CAD/CAE models shall be prepared and delivered in an editable Microsoft Office 2007 file format (MS Word, MS Excel). A U/FOUO cover sheet report shall be submitted electronically to the JLTV SharePoint server. The cover sheet report shall include a summary of the CAD data submitted, the submission date of the physical data storage device, and specifications of the physical data storage device used for submission.	
15. TOTAL →	

G. PREPARED BY JPO JLTV	H. DATE 26 AUG 2014	I. APPROVED BY Pete Manternach	J. DATE 06 SEP 2014
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A. CONTRACT LINE ITEM NO. 9002			B. EXHIBIT B		C. CATEGORY: TDP _ TM _ OTHER <input checked="" type="checkbox"/>				
D. SYSTEM/ITEM JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR			
1. DATA ITEM NO. B003	2. TITLE OF DATA ITEM CONTRACTOR CORROSION TEAM LOG				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-MFFP-81403(T), DI-MFFP-81402 SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.3.2			6. REQUIRING OFFICE SFAE-CSS-JL			
7. DD 250 REQ LT	9. DIST STATEMENT C		10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE N/A			11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES	
						Draft	Final		
						Reg	Repro		
16. REMARKS						SEE BLK 16			
<p>Block 4:DI-MFFP-81403 is tailored as follows: Application 7.1 and Preparation 10.3, delete "paragraph 5.1.1 of MIL-STD-1568" and replaced with "Corrosion Prevention and Control Guidebook for Military Systems and Equipment Spiral 4." This Guidebook is published by the Under Secretary of Defense for Acquisition, Technology, and Logistics [USD (AT&L)], and is available for downloading from the CorrDefense website - https://www.corrdefense.org/default.aspx. To download a copy of the guidebook, paste the link into your browser's address bar, click the "Advanced Search" on the homepage, click "Exact Match," type the search phrase "CPC Planning Guidebook," and press enter. A link will appear for downloading the file.</p> <p>Application 7.4 / Preparation 10.4.2, "airframe" is deleted, replaced by "chassis systems."</p> <p>Application 7.4 and Preparation 10.4.5, "avionics" is deleted and replaced with "electrical/electronics."</p> <p>Application 7.4 and Preparation 10.4.6, the phrase "support equipment" shall include commercial off the shelf items and Government furnished items.</p> <p>Application 10.4, delete "The following appendices, organized by subsystem, shall reference applicable paragraphs of documents containing information described in 10.3, " and replaced with "The Contractor shall include appendices for all subsystems, organized by subsystem, with applicable references to documents containing information described in 10.3. Each appendix shall include a table of corrosion prevention materials containing material codes, names, descriptions, material suppliers' names, process specifications, supplier names, and descriptions of where each coating will be used. Each appendix shall also include representative design drawings that identify materials and shows how the design approach prevents and controls corrosion to meet the required service life."</p> <p>In addition to the content of the DIDs, the Log shall consist of all corrosion issues</p> <p>Block 12: Initial submission is required at the Functional Baseline Review (FBR).</p> <p>Block 13: Subsequent submissions shall be submitted Monthly, NLT 24hrs prior to the CPAT meetings and include all data changes resulting from all engineering changes within the past month along with a summary list of all changes. Changes shall be highlighted in yellow.</p> <p>Block 14: This information shall be submitted electronically to the JLTV SharePoint server. The Government IPT lead shall be notified when the data has been submitted. All submissions shall be prepared and delivered in an editable and Microsoft Office 2007 file format (MS Word, MS Excel).</p>									
G. PREPARED BY JPO JLTV						H. DATE 26 AUG 2014		I. APPROVED BY Pete Manternach	J. DATE 06 SEP 2014
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A. CONTRACT LINE ITEM NO. 9002			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>			
D. SYSTEM/ITEM JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR	
1. DATA ITEM NO. B004	2. TITLE OF DATA ITEM Engine Emissions Analysis Report				3. SUBTITLE Emissions		
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B - SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.1.8		6. REQUIRING OFFICE SFAE-CSS-JL		
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY 1TIME		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION	
8. APP CODE N/A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION N/A		a. ADDRESSEE	b. COPIES
						Draft	Final
						Reg	Repro
16. REMARKS						SEE BLK 16	
<p>Block 4: In addition to the content of the DID, In Contractor format, the diesel engine emissions report shall include emissions levels found in the combustion gas for all of the following substances: carbon dioxide (CO2), carbon monoxide (CO) from incomplete combustion, hydrocarbons (HC) from un-burnt fuel, nitrogen oxides (NOx) from excessive combustion temperatures, particulate matter, and smoke values</p> <p>Block 12: Initial Submission due 30 days prior to TRR.</p> <p>Block 14: The deliverable shall be submitted electronically to the JLTV SharePoint server. The Government IPT Lead shall be notified when data has been submitted. The submission shall be prepared and delivered in an editable and Microsoft Office 2007 software suite file format (MS Word, MS Excel, MS PowerPoint, MS Visio).</p>							

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A. CONTRACT LINE ITEM NO. 9002			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>									
D. SYSTEM/ITEM JLTV			E. CONTRACT/PR NO.		F. CONTRACTOR								
1. DATA ITEM NO. B005	2. TITLE OF DATA ITEM Subsystem Design Analysis Report				3. SUBTITLE Routing Diagrams – Cabling, Wiring Harnesses and Plumbing								
4. AUTHORITY (Data Acquisition Document No.) DI-GDRQ-80567A(T) – SEE BLK 16			5. CONTRACT REFERENCE C.2.1.1.6.16.5, C.2.4.8.1		6. REQUIRING OFFICE SFAE-CSS-JL								
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION BLK 16		14. DISTRIBUTION							
8. APP CODE N/A	C	11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		<table border="1"> <tr> <td colspan="2">b. COPIES</td> </tr> <tr> <td>Draft</td> <td>Final</td> </tr> <tr> <td>Reg</td> <td>Repro</td> </tr> </table>		b. COPIES		Draft	Final	Reg	Repro
b. COPIES													
Draft	Final												
Reg	Repro												
16. REMARKS						SEE BLK 16							
<p>Block 4: The DID is tailored as follows:</p> <p>Delete Lines 7.3, 10.2.1, and 10.3.3-7.</p> <p>In addition to the content of the DID, the deliverable shall include detailed logical wiring diagrams, schematics, and physical routing diagrams, including the C4ISR/EW and Vetronics architectures, fuel, pneumatic, hydraulic, cooling, and lubrication systems for the complete JLTV FoV. The deliverable shall also include a description of the architecture, pin outs, inter-device connections, and cable management approach. The deliverable shall also include each GFE NSN and supplier part number, for GFE cables or harnesses.</p> <p>The contractor shall provide power generation test harness designs for all vehicle configurations that are needed to connect to the Government load banks for testing.</p> <p>Block 12: Initial Submission is due at Allocated Baseline Review.</p> <p>Block 13: A subsequent submission is due 30 days prior to pre-TRR.</p> <p>Block 14: This deliverable shall be submitted electronically to the JLTV SharePoint server. The Government IPT Lead shall be notified when data has been submitted. The submission shall be prepared and delivered in an editable and Microsoft Office 2007 software suite file format (MS Word, MS Excel, MS PowerPoint, MS Visio). The deliverable format for 2D diagrams and schematics shall be in a human-readable format using Microsoft Visio. Physical routing diagrams may be pictures or images captured from 3D CAD Models.</p>													
						15. TOTAL							
G. PREPARED BY JPO JLTV		H. DATE 26 AUG 2014		I. APPROVED BY Pete Manternach		J. DATE 06 SEP 2014							

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A. CONTRACT LINE ITEM NO. 9002			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>			
D. SYSTEM/ITEM JLTV			E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. B010	2. TITLE OF DATA ITEM PRODUCT BASELINE LIST INDEX (PBLI)				3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-81516, SEE BLK 16			5. CONTRACT REFERENCE C.1.3.5.4.2, C.1.3.5.4.3, C.1.3.4.3.2, C.1.3.5.3.1, C.1.3.5.4.1, C.3.5.3.3, C.1.4.1, C.1.4.2, C.2.1.1.3, C.2.1.1.4, C.2.1.1.5.4, C.2.1.4.7.1		6. REQUIRING OFFICE SFAE-CSS-JL		
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION	
8. APP CODE A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE	b. COPIES
						Draft	Final
						Reg	Repro
16. REMARKS Block 4: The DID is tailored as follows: Delete Para 7.2 and in Para 10.2.1, 3rd & 4th lines, delete, "serial-number-controlled or lot-number controlled all-up round," In addition to the content of the DID: Each PBLI shall contain, item number, item name, part number, revision, with release authorization number (e.g., Change Order, Change Notice, ERR), design activity/manufacturer cage code, NSN (if available), if common across JLTV FoV, if in US Army inventory, and if item was used in commonality % calculation. When provided, Government Furnished Material (GFM) shall be included in the PBLI. The PBLI shall be prepared in indenture level sequence down to the lowest component piece part level. Indenture Level. The PBLI shall be indentured from the top- (end-item) down, beginning with a top indenture level of either 0 or 1. Each section, assembly or sub-assembly shall individually break down and contain a complete indentured list of its parts with complete PBLI information before the next section, assembly, or sub-assembly is listed and the part quantity. Additional fields are acceptable in the PBLI if they are thoroughly explained by the Contractor. The Contractor shall not re-identify or re-mark supplier or purchased parts or related product data with his own number and CAGE. This PBLI will be traceable to the full production TDP. The PBLI will go down to the lowest level procured by the Contractor, plus part numbers for repairable or consumable items, excluding Petroleum, Oil and Lubricants (POL). Indenture Example: 0 End item X 1 Assembly A 2 Part a 2 Part b 2 Part c 2 Assembly B 3 Assembly C 4 Part b 4 Part d 4 Part e 3 Part a 3 Part f 2 Part g						SEE BLK 16	
						15. TOTAL	
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16. REMARKS (Continued)

Commonality.

The PBLI shall include commonality information. The commonality information shall include identification of the common components of each JLTV variant. Common components shall be identified with a contractor-defined nomenclature that indicates the level of commonality within

the following commonality prioritization hierarchy:

1. JLTV FoVs
2. United States Army Inventory
 - a. Joint Light Tactical Vehicles Inventory
 - b. Program Executive Office Combat Support and Combat Service Support Inventory

and whether the component was used for the calculation of the JLTV FoV commonality percentage as defined below.

The contractor shall provide the commonality percentage for the JLTV FoV as a whole in the header, title block, or introductory section of the PBLI. A component shall be considered common to the JLTV FoV if it is used in all JLTV variants. The JLTV FoV commonality percentage shall be calculated as the ratio of the sum of the number of common components from each variant to the sum of the total number of components from each variant.

Block 8: Comments from the Government shall be addressed in an updated re-submission by the Contractor within 10 business days of receipt of Government comments.

Block 12: Initial submission required 60 days prior to Product Baseline Review (PBR)

Block 13: Subsequent submission required 60 days prior to Initial PCA. A subsequent submission is required 60 days prior to the final PCA. Subsequent submissions are required as changes occur in Contractor initiated ECPs, per SOWC 2.1.1.5.7. For all Government directed ECPs, the CDRL delivery, if required, will be part of the Work Directive.

Block 14: This information shall be submitted electronically to the JLTV SharePoint server. The Government IPT lead shall be notified when the data has been submitted. All submissions shall be prepared and delivered in an editable and Microsoft Office 2007 file format (MS Word, MS Excel).

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16. REMARKS (Continued)

- j. Scenarios. Provide a brief statement identifying the system scenarios. This can also serve as a Section heading for sub-sections and does not require a text description.
1. Mission Use Scenarios. Mission scenarios describe the high-level system functionality. Define the mission capabilities expressed as end to end threads. Each thread includes all system components that contribute to the execution of the operation described. For instance, aircraft systems may operate in different geographic theaters with different tactics and strategies. Other systems may operate in a mobile platform (in a car) as well as a fixed platform/location (office).
 2. Operational Use Scenarios. Operational use scenarios describe the individual operations that are used to fulfill the mission scenarios. These can be used individually or in sequence to complete the mission scenarios. Define operational scenarios representative of actual system use. These are the sequence of actions taken by the operator and performed by the system for different system operations. The Operational Use scenarios may include high level scenarios as well. Such scenarios consist of the operations of the system as part of a larger system or transactions and interactions with other systems, etc.
 - a. Startup. Describe how the system is started up.
 - b. Setup. Describe any setup operations.
 - c. Normal Operations. Describe operations under normal working conditions.
 - d. Failure Modes. Describe operations when failure conditions occur.
 - e. Emergencies. Describe operations under emergency situations.
 - f. Shutdown. Describe any shutdown operations.
 3. Support. Provide a brief statement identifying system support. This can also serve as a section heading for subsections and does not require a text description.
 - a. Provisioning. List the provisioning requirements and operations to fulfill those requirements.
 - b. Maintenance. List the maintenance requirements and maintenance operations that need to be performed on the various parts of the system. Identify any special maintenance needs, tools, or equipment. Document all assumptions - who will complete the maintenance and where the maintenance will be performed.
 - c. Training. Identify the training that needs to be developed to educate personnel on the use and operations of the system. Identify the training type, duration, and format required. Identify any additional, specialized training or prerequisites required for system, operations.
 - d. Deployment. Identify when and where the system is to be deployed and in what configuration.
 - e. Upgrade Methodology. Describe how the hardware and/or software are to be upgraded over the lifecycle of the program.
 4. Security. Provide a description of the physical / information security requirements of the system. This should include the security requirements for the operational and non-operational environment (e.g., trusted systems, multi-level security schemes, or multi-tiered physical security levels). Identify the concepts for addressing the security issues in the system. Identify in the form of scenarios where security requirements are addressed and met (e.g., when log-on and passwords are required and performed).
 5. Appendices. Provide any other analysis data in this appendix. Additional appendices may be used as needed.

Block 8: Comments from the Government shall be addressed in an updated re-submission by the Contractor within 30 business days after receipt of government comments.

Block 12: Initial submission is due 60 after contract award.

Block 13: Final submission is due 60 days prior to Physical Configuration Audit (PCA).

Block 14: The HESAR shall be submitted electronically to the JLTV SharePoint server. The Government IPT lead shall be notified when the data has been submitted. All submissions shall be prepared and delivered in an editable and Microsoft Office 2007 file format (MS Word, MS Excel).

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A. CONTRACT LINE ITEM NO. 9002	B. EXHIBIT	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>	
D. SYSTEM/ITEM JLTV	E. CONTRACT/PR NO.	F. CONTRACTOR	

16. REMARKS (Continued)

Process Flow Diagram

The Contractor shall provide the LRIP and the initial FRP Process Flow Diagram for the JLTV that represents the entire manufacturing process from receiving through shipping operations including the following:

- (1) Process sequence, method, and equipment used at each station including inspection and repair/rework stations.
- (2) Number of operators needed per station including inspection and repair/rework stations.
- (3) Both main-line assembly processes and off-line assembly processes that supply the main-line.

The Contractor shall provide the initial FRP Manufacturing Floor Plan using TS-16949 6.3.1 as a guide that shows the layout of the facility and illustrates station-by-station the overall flow of the manufacturing process.

The Contractor shall have an initial FRP Process Flow diagram linked to the PFMEA and Control Plan, matching all operations, and special characteristics that are planned for FRP.

Block 12: Initial submission is 30 days prior to MRA.

Block 13: Final submission is due 30 days prior to FRP decision.

Block 14: The deliverable shall be submitted electronically to the JLTV SharePoint server. The Government IPT lead shall be notified when the data has been submitted. All submissions shall be prepared and delivered in an editable, Microsoft Office 2007 file format (MS Word and MS Excel).

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G. PREPARED BY JPO JLTV	H. DATE 26 AUG 2014	I. APPROVED BY Pete Manernach	J. DATE 08 SEP 2014
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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 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, Executive Services Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

A. CONTRACT LINE ITEM NO. 9002			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>													
D. SYSTEM/ITEM JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR											
1. DATA ITEM NO. B034	2. TITLE OF DATA ITEM System Level Design Document (SLDD)				3. SUBTITLE												
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80711(T) – SEE BLK 16			5. CONTRACT REFERENCE C.1.3.5.3.1, C.1.3.5.4.1, C.2.1.1.3, C.2.1.1.5.4, C.2.1.1.6.5		6. REQUIRING OFFICE SFAE-CSS-JL												
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION											
8. APP CODE A	C	11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" rowspan="2">a. ADDRESSEE</td> <td colspan="2">b. COPIES</td> </tr> <tr> <td>Draft</td> <td>Final</td> </tr> <tr> <td></td> <td></td> <td>Reg</td> <td>Repro</td> </tr> </table>		a. ADDRESSEE		b. COPIES		Draft	Final			Reg	Repro
a. ADDRESSEE		b. COPIES															
		Draft	Final														
		Reg	Repro														
16. REMARKS						SEE BLK 16											
<p>Block 4: The DID is tailored as follows:</p> <p>Delete 10.2 Document format shall be in accordance with ANSI/NISO Z39.18 Scientific and Technical Reports – Elements, Organization, and Design.</p> <p>In addition to the content of the DID, The SLDD shall logically flow from the JLTV Purchase Description (Attachment 0001) and shall assign all functionality to Hardware or Software configuration items. The SLDD shall include, in Contractor format:</p> <ul style="list-style-type: none"> • Top level summary description and characteristics (including vehicle level weight, dimensions) of each configuration and trailer • Views and descriptions explaining vehicle layout, kits, attachments, and capabilities • Requirement traceability (Purchase Description to subsystems portion of the WBS) • Contractor’s Interface Control Documents (ICDs) identification and traceability to TDP ICDs • Sub-system traceability to WBS, cWBS, and CSDR reporting • Sub-system traceability to PBLI structure • System Architectures (including descriptions and visual representations) <ul style="list-style-type: none"> - Subsystem Architectures - Physical Architectures - Electrical Architectures - C4ISR Architectures - Software Architectures - System Level Software Integration and Interrelationships <p>Block 8: Comments from the Government shall be addressed in an updated re-submission by the Contractor within 30 days of receipt of Government comments.</p> <p>Block 12: Initial draft submission is due 15 days prior to the Allocated Baseline Review (ABR).</p> <p>Block 13: Subsequent submissions are required as changes occur in Contractor initiated ECPs, per SOWC 2.1.1.5.7. For all Government directed ECPs, the CDRL delivery, if required, will be part of the Work Directive.</p> <p>Block 14: The SLDD shall be submitted electronically to the JLTV SharePoint server. The Government IPT Lead shall be notified when data has been submitted. The submission shall be prepared and delivered in an editable and Microsoft Office 2007 software suite file format (MS Word, MS Excel, MS PowerPoint, MS Visio)</p>																	
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A. CONTRACT LINE ITEM NO. 9002	B. EXHIBIT B	C. CATEGORY: TDP _____ TM _____ OTHER X
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D. SYSTEM/ITEM JLTV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. B039	2. TITLE OF DATA ITEM Technical Report–Study/Services	3. SUBTITLE Vulnerability Analysis Input Data
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4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B - SEE BLK 16	5. CONTRACT REFERENCE C.2.1.4.2, C.2.1.4.2.1, C.2.1.4.2.2 C.2.1.4.3, C.2.4.2.1.3.3.1	6. REQUIRING OFFICE SFAE-CSS-JL
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED SEE BLK 16	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION		
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE		b. COPIES
				Draft	Final	
				Reg	Repro	

16. REMARKS Block 4: The DID is tailored as follows: -Delete: "Use/relationship: A technical report provides fully documented results of studies or analysis performed." And replace with "Use/relationship: A technical report provides Vulnerability Analysis Input Data IAW CDRL B039 and fully completed Attachment 0013." - Delete: Sections 3c and d. and replace with "Provide data and models IAW CDRL B039 and Attachment 0013." In addition to the content of the DID, the CDRL shall consist of completed Vulnerability Analysis input data sheets (Attachment 13) IAW the Contract Reference in Block 5. The data sheets shall include unique armor recipes for each vehicle surface (e.g. sides, top, front, rear, underbody, EFP). For each armor recipe, the Contractor shall specify the material and thickness of each armor layer (including air spaces), from outside to inside, plus the areal density of the overall recipe. Be sure to include for both A and B kit. For each JLTV mission package configuration, the Contractor shall provide Armor and Vehicle Schematics of each vehicle aspect view (e.g. overhead, sides, front, rear, underbody). The contractor shall include a diagram of the vehicle with each coupon delivery that identifies the correlating location of each armor recipe. Block 8: Comments from the Government shall be addressed in an updated re-submission by the Contractor within 30 business days of receipt of Government comments. Block 9: If content is as at the For Official Use Only (U/FOUO) level, the CDRL shall be marked as "Distribution D". If content is at the SECRET level, the CDRL shall be marked "SECRET". Block 12: Initial submission is due 15 days after Contract Award. Block 13: Annual subsequent updates to this CDRL shall be submitted, as a result of any data changes resulting from an ECP. Annual subsequent updates shall include only the files and/or data that has been changed within the past year highlighted in yellow along with a summary list of all changes. Block 14: Contractor responses to the data requirements below may be at the For Official Use Only (U/FOUO) level, or at the SECRET level. For a U/FOUO level response, the deliverable shall be submitted electronically to the JLTV SharePoint server. For a SECRET level response, the deliverable shall be submitted via registered mail to the JLTV classified mailing address. In addition (for SECRET level responses), a U/FOUO cover sheet report shall be submitted electronically to the JLTV SharePoint server and shall contain the date the SECRET level response was submitted. The submission shall be prepared and delivered in an editable and Microsoft Office 2007 file format (MS Word, MS Excel). The Government IPT Lead shall be notified when data has been submitted.	SEE BLK 16
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D. SYSTEM/ITEM JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR													
1. DATA ITEM NO. B040	2. TITLE OF DATA ITEM Technical Report--Study/Services				3. SUBTITLE Computer Aided Engineering (CAE) Models and M&S Input Data														
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B - SEE BLK 16			5. CONTRACT REFERENCE C.2.1.4.3, C.2.1.4.4		6. REQUIRING OFFICE SFAE-CSS-JL														
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION													
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Reg	Repro	Reg	Repro																
<p>16. REMARKS</p> <p>Block 4: The DID is tailored as follows: -Delete: "Use/relationship: A technical report provides fully documented results of studies or analysis performed." And replace with "Use/relationship: A technical report provides CAE models per CDRL B040 and fully completed M&S Input Data IAW Attachment 0012." - Delete: Sections 3c and d. and replace with "Provide data and models IAW CDRL B040 and Attachment 0012."</p> <p>In addition to the content of the DID, the CDRL shall consist of CAE Models and completed M&S input data sheets (Attachment 0012) IAW the Contract Reference in Block 5.</p> <p>Prior to submission, the Contractor shall verify that the Top Level Assembly opens without errors. All CAE model deliveries shall be the output of the most current production TDP.</p> <p>Computer Aided Engineering (CAE) Models for Blast, Vulnerability, Crashworthiness/Safety, and Thermal M&S for each JLTV variant shall contain the following:</p> <p>1. Finite Element Model (FE) Mesh Requirements</p> <p>a. Finite element models shall be developed using the same CAD geometry and part number naming convention provided in Production Technical CAD Data (CDRL B041) (e.g., as delivered vehicles). Models are to be built in the same global coordinate system as the CAD delivered in Production Technical CAD Data (CDRL B041).</p> <p>b. Finite element models shall contain material models. For the details of the material model requirements refer to the Blast Protection Data Sheet tab in Attachment 0013, Vulnerability Analysis Input Data Sheets.</p> <p>c. Finite elements such as shell, solid, beam, spring-damper, rigid, spot welds, joints, and mass elements shall be utilized to develop the FE model based on the following quality parameters:</p> <p>i. <u>Shell Elements (Tolerance = +/- 20%)</u> *Warpage = 25; Aspect Ratio = 5 to 7; Quad = Angle (min-45; max-135); Tria = Angle (min-20; max-120); Jacobian = 0.700, *Recommended length of element between 10-15mm</p> <p>ii. <u>Solid Elements</u> *Warpage >5; Aspect Ratio ≥5; Skew >60; Tetra Collapse = 0.5; Volume Skew = 0.6; Jacobian = 0.700, *Recommended length of element between 10-15mm</p> <p>iii. <u>Time Step</u> The time step of the model shall be ≤ 5X10⁻⁷ seconds.</p>						SEE BLK 16													
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D. SYSTEM/ITEM JLTV	E. CONTRACT/PR NO.	F. CONTRACTOR	

16. REMARKS (Continued)

- d. The FE model shall be meshed consisting of shell and solid elements (2D), where appropriate, with other suitable elements stated above also as needed/appropriate.
- e. The FE meshed model shall have no intersection/penetration between adjacent parts.
- f. A minimum of three rows of shell elements on meshed part flanges shall be adhered to.
- g. Solid pieces shall have at least four uniform sized elements through the thickness.
- h. Hole design features greater than 10mm in diameter with meshing around them shall be present.
- i. The FE model shall accurately reflect the vehicle inertial properties in terms of overall vehicle weight, center of gravity, and moments of inertia. Nodal or inertia points shall account for less than 5% of the vehicle weight.

2. Finite Element Model Requirements for Underbody Blast Simulation

- a. A running, full-vehicle level (to include all kits) LS-DYNA FE model for blast analysis of the Joint Light Tactical Vehicle (JLTV) shall be provided.
- b. The vehicle level FE model for blast simulation provided shall include the engine, transmission, front/rear axles, all suspension components (e.g., springs, dampers, struts, spindles, knuckles, control arms, tie rods, etc.), steering column, all tires including the wheels and hubs modeled with the air inside the tires using the appropriate LS-DYNA keyword format, full fuel tank, stiffness characteristics of the suspension and engine mount, engine mount type, and ground clearance with noted reference point. The FE model shall include ballast weight where appropriate to account for things like computers and Heating, Ventilation, and Air Conditioning (HVAC) equipment inside the crew compartment that may weight down the hull floor. The FE model shall include other large, under-vehicle components (e.g., suspension height control system) that may redirect the blast or provide direct loading to the underbody structure via contact.
- c. The FE model shall have all parts properly attached or connected to each other. Element connectivity and duplicate element problems shall be non-existent.
- d. All fasteners shall have the material and failure properties included. This applies to bolts, rivets, welds, and all/any other types used in the vehicle FE model.
 - i. For bolts specify the preload, the bolt type, class and grade, the tensile and yield strength, hardness, and all geometrical dimensions of the bolt (e.g., head, threaded portion).
 - ii. For rivets, specify the type and all mechanical and geometrical properties.
 - iii. Welds shall be described by their type, material composition, and geometric dimensions.
 - iv. All joints (e.g., revolute, translational, spherical, etc.) shall be included.
- e. The engine and transmission shall be a solid meshed block of appropriate dimension, density, and inertia properties.
- f. All dummies/occupants for the 50th and or 95th percentile class with seatbelts shall be positioned, meshed, and included within the FE model (most likely LSTC dummies due to licensing issues). All properties shall be included.
- g. The model shall be stable under a zero magnitude loading condition. To ensure stability, all response magnitudes and all nodal displacements shall be zero under this condition. The energy shall be in balance with an energy ratio of 1.0.
- h. If a primary part of the model (e.g., one predominantly interacting with the high explosive [HE]/soil) is too thin to have a reasonable time step, both a shell element version and a solid element version of that component, along with the proper connections to the rest of the vehicle, shall be provided.

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D. SYSTEM/ITEM JLTV	E. CONTRACT/PR NO.		F. CONTRACTOR	

16. REMARKS (Continued)

3. Finite Element Model Requirements for Crashworthiness/Safety Simulation

- a. A running, full-vehicle level (to include all kits) LS-DYNA FE model for crashworthiness/safety analysis of the JLTV shall be provided.
- b. Two finite element models, one for roof crush and one for steering column rearward displacement shall be provided by the contractor.
- c. The roof crush model shall be developed based on the requirements of SAE J2422 Cab Roof Strength Evaluation.
- d. The steering column rearward displacement model shall be according to the specification of FMVSS 204 Steering Control Rearward Displacement.
- e. The vehicle level FE models for crashworthiness/safety simulation provided shall include the engine, transmission, front/rear axles, all suspension components (e.g., springs, dampers, struts, spindles, knuckles, control arms, tie rods, etc.), steering column, all tires, doors, and roof structure.

Note: The electrical system, HVAC, pneumatic systems and brakes should not be presented in the Crashworthiness/Safety FE models.

4. Additional Requirements

A 1G gravitational drop-test loading condition to assess the FE model integrity, energy balance, and connectivity shall be conducted through a LS-DYNA simulation.

5. Finite Element Model Requirements for Thermal Simulation

- a. Computational Fluid Dynamics (CFD) and mesh numerical models used for powertrain cooling and vehicle interior heating/cooling analyses in Star-CCM+ readable format, including boundary conditions and material property definitions used in the analyses shall be provided. Boundary conditions and property definitions shall include: momentum and energy sources, inlet and outlet boundary values, porous media values, and fluid properties.

Block 8: Comments from the Government shall be addressed in an updated re-submission by the Contractor within 30 business days of receipt of Government comments.

Block 12: Initial submission is due 30 days after Contract Award.

Block 13: For CAE Models: An updated submission is due at Product Baseline Review (PBR). Annual subsequent updates shall be submitted, as a result of any data changes resulting from an ECP. Annual subsequent updates shall include only the files that have been changed within the past year along with a summary list of all changes.

For M&S data sheets: Annual subsequent updates shall be submitted, as a result of any data changes resulting from an ECP. Annual subsequent updates shall include only the data that has been changed within the past year, highlighted in yellow, along with a summary list of all changes.

Block 14: Portions of the CDRL other than CAE models shall be submitted electronically to the JLTV SharePoint server and prepared and delivered in an editable and Microsoft Office 2007 file format (MS Word, MS Excel). CAE data and associated files shall be submitted on a physical data storage device (ex. DVD, portable hard drive with Firewire and/or eSATA interface), and the device shall be properly labeled with contractor name, CDRL data and attachment item number, and distribution statement. The Government IPT Lead shall be notified

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D. SYSTEM/ITEM JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR	
1. DATA ITEM NO. B049	2. TITLE OF DATA ITEM Technical Report--Study/Services				3. SUBTITLE Health Management System (HMS) Report		
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B - SEE BLK 16			5. CONTRACT REFERENCE C.2.1.1.6.16.1		6. REQUIRING OFFICE SFAE-CSS-JL		
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16. REMARKS Block 4: In addition to the content of the DID, the HMS Report shall include the JLTV Sensor Strategy, Fault Notification Strategy, Data Strategy, and Diagnostic Fault Data Table. <ul style="list-style-type: none"> The Sensor Strategy shall include an analysis of adding sensors specifically for diagnostic and prognostic purposes (based on findings from FMEA, RCM, and RAM analysis) and the overall system cost impacts. The Fault Notification Strategy shall include the strategy used to alert the operator of faults, and an analysis to ensure the operator will not be overburdened by repeating or an abundance of alerts. The Data Strategy shall include the determination of what data will be stored, data formats and types, sample rates, data reduction strategies, and constraints to ensure cost, computing, and bandwidth efficiency have been optimized in the HMS and CBM data store. The Diagnostic Fault Data Table shall include the identification of all faults in the vehicle system and subsystems, the identification of the sensors used to determine the fault condition, the conditions necessary to cause the fault to occur, the effects of the fault condition on vehicle or subsystem operation and/or degradation, the associated Diagnostic Trouble Code (DTC) including all necessary information (public and proprietary) needed to decode and display the fault on a government developed diagnostic interface, and the ranking of faults based on the following criteria: <ul style="list-style-type: none"> Level 1 Warning - Faults that cause vehicle or critical subsystem inoperability Level 2 Caution - Faults that cause vehicle or critical subsystems to operate in a degraded manner Level 3 Alert - All other detectable and/or isolatable faults. The Diagnostic Fault Data Table shall also include immediate action instructions to which the corrective action restores system to full operational state. Immediate action instructions shall be predicated on those results related to the previous maintainability analysis performed, such the FMEA and RCM analysis. Block 8: Comments from the Government shall be addressed in an updated re-submission by the Contractor within 30 business days of receipt of Government comments. Block 12: Initial Submission is due within 30 days after the Product Baseline Review (PBR). Block 13: Subsequent submissions are required 5 business days after government approval of contractor initiated ECPs. Block 14: The CDRL shall be submitted electronically to the JLTV SharePoint server. The Government IPT Lead shall be notified when data has been submitted. The submission shall be prepared and delivered in an editable and Microsoft Office 2007 software suite file format (MS Word, MS Excel, MS PowerPoint, MS Visio)					SEE BLK 16		
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