

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.			B. EXHIBIT B		C. CATEGORY: TDP _ TM _ OTHER <input checked="" type="checkbox"/>			
D. SYSTEM/ITEM JPO 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, DI-MFFP-81402 SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.3			6. REQUIRING OFFICE SFAE-CSS-JL/SE		
7. DD 250 REQ LT	9. DIST STATEMENT DIST. C, EXPORT CONTROL, & FOUO		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	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16		a. ADDRESSEE		b. COPIES Draft Final Reg Repro
16. REMARKS 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 Application 7.4 and Preparation 10.4.2, "airframe" is deleted and replaced with "chassis systems." Application 7.4 and Preparation 10.4.5, "avionics" is deleted and replaced with "electrical/electronics." Application 7.4 and Preparation 10.4.6, the phrase "support equipment" shall include commercial off the shelf items and Government furnished items. 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." Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial submission of each JLTV mission package configuration is required 30 days after contract award. 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: 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).						SEE BLK 16		
						15. TOTAL →		
G. PREPARED BY Daniel Nymberg			H. DATE		I. APPROVED BY			J. DATE

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A. CONTRACT LINE ITEM NO.	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 JPO 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/SE
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7. DD 250 REQ LT	9. DIST STATEMENT DIST. C, EXPORT CONTROL, & FOUO	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	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16	a. ADDRESSEE	b. COPIES	
					<small>Draft</small>	<small>Final</small>
					<small>Reg</small>	<small>Repro</small>

16. REMARKS	SEE BLK 16
<p>Block 4: The DID is tailored as follows:</p> <p>Requirements: 2. General. Delete 2b and 2c.</p> <p>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."</p> <p>Requirements: 4. Content. Delete – 4.a, 4.b, 4.d, 4.j, 4.k, 4.n, 4.o, 4.p, and 4.q</p> <p>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.</p> <p>Block 6: SE = Government Systems Engineering Integrated Product/Process Team</p> <p>Block 8: Re-submittal for Government approval shall be within 30 days of receiving Government comments on the CDRL.</p> <p>Block 12: Initial submission of each JLTV configuration shall be within 30 days of contract award.</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: 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.</p>	
15. TOTAL →	

G. PREPARED BY Daniel Nymberg	H. DATE 04-30-14	I. APPROVED BY	J. DATE
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B		C. CATEGORY: TDP _ TM _ OTHER <u>X</u>			
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO. B003	2. TITLE OF DATA ITEM CONTRACTOR CORROSION TEAM LOG				3. SUBTITLE CONTRACTOR CORROSION TEAM LOG			
4. AUTHORITY (Data Acquisition Document No.) DI-MFFP-81403, DI-MFFP-81402 SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.3.2		6. REQUIRING OFFICE SFAE-CSS-JL/SE			
7. DD 250 REQ LT	9. DIST STATEMENT DIST. C, EXPORT CONTROL, & FOUO	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION			
8. APP CODE N/A		11. AS OF DATE	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</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 6: SE = Government Systems Engineering Integrated Product/Process Team</p> <p>Block 12: Initial submission of each JLTV mission package configuration shall be within 30 days after contract award.</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 year 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 Daniel Nymberg					H. DATE		I. APPROVED BY	
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM JOINT LIGHT TACTICAL VEHICLE (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.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.1.8		6. REQUIRING OFFICE SFAE-CSS-JL/SE							
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								
16. REMARKS Block 4: 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 (CO ₂), carbon monoxide (CO) from incomplete combustion, hydrocarbons (HC) from un-burnt fuel, nitrogen oxides (NO _x) from excessive combustion temperatures, particulate matter, and smoke values Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial Submission due 30 days prior to TRR. 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).						b. COPIES						
						a. ADDRESSEE		Draft		Final		
								Reg		Repro		
						SEE BLK 16						
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D. SYSTEM/ITEM JPO JLTV	E. CONTRACT/PR NO.	
F. CONTRACTOR		

1. DATA ITEM NO. B011	2. TITLE OF DATA ITEM CONFIGURATION MANAGEMENT PLAN (CMP)	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16	5. CONTRACT REFERENCE C.2.1.1.5.3	6. REQUIRING OFFICE SFAE-CSS-JL/SE
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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		
8. APP CODE A		11. AS OF DATE N/A	13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			a. ADDRESSEE
					Draft	Final
					Reg	Repro

16. REMARKS	SEE BLK 16
<p>Block 4: The Contractor's Configuration Management Plan (CMP) shall describe how the Contractor shall establish, implement and maintain configuration management and planning, configuration identification, configuration control request, configuration status accounting, configuration verification and audit, and data management.</p> <p>The Contractor's CMP describes the Contractor's CM program, how it is organized, how it will be conducted, and the methods procedures and controls effective configuration identification, change control, status accounting, and audits of the total configuration, including hardware, software and firmware. The principle use is to provide the Government a basis for review, evaluation and monitoring of the CM program and its proposed components.</p> <p>The CMP shall include a CM process flow diagram which describes the management of changes to the configuration items; evaluation of proposed changes, status tracking, maintainance of inventory, detailed recording and audits.</p> <p>The CMP shall also include all the justifications for any deviation from the Contractors established CM corporate standards for the JLTV contract.</p> <p>Block 6: SE = Government Systems Engineering Integrated Product/Process Team</p> <p>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.</p> <p>Block 12: Initial submission required 60 days prior to Product Baseline Review (PBR).</p> <p>Block 13: Subsequent submission and Government approval is required if there is any deviation from the CMP or its associated documents and processes.</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 →	

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR						
1. DATA ITEM NO. B012	2. TITLE OF DATA ITEM Hazard Tracking Log (HTL)				3. SUBTITLE							
4. AUTHORITY (Data Acquisition Document No.) SEE BLK16			5. CONTRACT REFERENCE C.2.1.2.1.3		6. REQUIRING OFFICE SFAE-CSS-JL/SE							
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY QRTLTY		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								
16. REMARKS Block 4: The HTL shall be IAW Attachment 0018 SOWC 238, Hazzard Tracking Log (HTL) Content Requirements and include ESOH hazards identified through hazard analyses, evaluations, risk assessments, and testing. The HTL shall track the status of all hazards throughout the lifecycle of the system. Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial Submission is due 45 days after contract award. Block 13: Subsequent submissions due quarterly 7 days prior to the Environmental, Safety, and Occupational Health Working Group meeting. Block 14: The HTL 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)						b. COPIES						
						a. ADDRESSEE		Draft		Final		
								Reg		Repro		
						SEE BLK 16						
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>				
D. SYSTEM/ITEM JOINT LIGHT TACTICAL VEHICLE (JLTV)			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO. B013	2. TITLE OF DATA ITEM Safety & Health Hazard Assessment Report			3. SUBTITLE Safety Assessment Report (SAR)				
4. AUTHORITY (Data Acquisition Document No.) DI-SAFT-80102B & DI-SAFT-80106B			5. CONTRACT REFERENCE C.2.1.2.1.5		6. REQUIRING OFFICE SFAE-CSS-TV-JL/SE			
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16				
8. APP CODE N/A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16				
16. REMARKS Block 4: DI-SAFT-80106B is tailored as follows: Delete 10.2.2 and 10.2.3 Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial Submission is due 120 days prior to Test Readiness Review (TRR). Block 13: Subsequent submissions are due as follows: 60 days prior to TRR, 120 days prior to Log Demo, and 120 days prior to Full Rate Production. Block 14: The SAR 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)				14. DISTRIBUTION				
				a. ADDRESSEE		b. COPIES		
						Draft	Final	
							Reg	Repro
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR						
1. DATA ITEM NO. B016	2. TITLE OF DATA ITEM Human Engineering Systems Analysis Report (HESAR)											
4. AUTHORITY (Data Acquisition Document No.) DI-HFAC-80745 (T) – SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.2.1		6. REQUIRING OFFICE SFAE-CSS-JL/SE							
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 N/A								
16. REMARKS Block 4: In addition to the content of the DID the HESAR shall include: <ul style="list-style-type: none"> a. <u>Subsystems</u>. Identify any subsystems defined during the system analysis and design process. b. <u>Internal Interfaces</u>. Describe the interfaces between internal system elements. c. <u>External Interfaces</u>. Describe the interfaces to external elements. i. User, operator, and support elements. Provide a brief statement identifying the user, operator, and support elements. This can also serve as a section heading for subsections and does not require a text description. <ul style="list-style-type: none"> 1. <u>Operator Descriptions</u>. Identify the numbers and types of users and operators of the system. This can include the minimum number of operators required to operate and/or maintain the system in any given shift. Identify the number of operators per console, if applicable (e.g., operators share terminal on an as needed basis or one operator monitors/operates system using three consoles, each console providing separate functions). Include any special requirements for the job (e.g., must have 20/20 vision or cannot be colorblind). Identify any assumptions that are made about the system or the users that influence the design of the system. Identify any derived requirements that are a result of analysis that influence design decisions or that are critical to system performance. 2. <u>Roles</u>. Identify the specific roles in the system such as supervisor, operator (type), maintenance, technician, etc. Identify the specific function(s) performed for each role. Identify and clarify any assumptions made about the user roles that affect or influence design decisions. Identify any assumptions made about the roles or the users completing these roles. 3. <u>Profiles and Skills</u>. Identify and describe the people who fulfill the system roles. Includes prerequisites such as rank, and years of experience. Special knowledge areas or pertinent experience (lack of experience - e.g., novice computer users) can be included. Also describe the required skill sets of the users and operators of the system. This can include education, reading level, technical prerequisites and occupational specialties. If applicable, identify the skills for each of the roles. Identify any assumptions made about the system users. 						SEE BLK 16						
						15. TOTAL →						
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D. SYSTEM/ITEM JPO JLTV	E. CONTRACT/PR NO.	
F. CONTRACTOR		

1. DATA ITEM NO. SOWC-250	2. TITLE OF DATA ITEM Human Engineering Systems Analysis Report (HESAR) (cont.)
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4. AUTHORITY (Data Acquisition Document No.) DI-HFAC-80745 (T) – SEE BLK 16	5. CONTRACT REFERENCE SOWC-250	6. REQUIRING OFFICE SFAE-CSS-JL/SE
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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 N/A	a. ADDRESSEE	b. COPIES	
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16. REMARKS
(Continued)

Block 4:

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.

15. TOTAL ➔

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>
D. SYSTEM/ITEM JPO JLTV	E. CONTRACT/PR NO.	F. CONTRACTOR

1. DATA ITEM NO. SOWC-250	2. TITLE OF DATA ITEM Human Engineering Systems Analysis Report (HESAR) (cont.)
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4. AUTHORITY (Data Acquisition Document No.) DI-HFAC-80745 (T) – SEE BLK 16	5. CONTRACT REFERENCE SOWC-250	6. REQUIRING OFFICE SFAE-CSS-JL/SE
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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
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<p>16. REMARKS (Continued)</p> <p>Block 4:</p> <ul style="list-style-type: none"> c. <u>Training</u>. 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. <u>Deployment</u>. Identify when and where the system is to be deployed and in what configuration. e. <u>Upgrade Methodology</u>. Describe how the hardware and/or software are to be upgraded over the lifecycle of the program. <p>4. <u>Security</u>. 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).</p> <p>5. <u>Appendices</u>. Provide any other analysis data in this appendix. Additional appendices may be used as needed.</p> <p>Block 6: SE = Government Systems Engineering Integrated Product/Process Team</p> <p>Block 12: Initial submission is due 60 days after Contract Award.</p> <p>Block 13: Final submission is due 60 days prior to Physical Configuration Audit (PCA).</p> <p>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).</p>	SEE BLK 16
15. TOTAL →	

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>			
D. SYSTEM/ITEM JOINT LIGHT TACTICAL VEHICLE (JLTV)			E. CONTRACT/PR NO.		F. CONTRACTOR		
1. DATA ITEM NO. B017	2. TITLE OF DATA ITEM Manufacturing Development Strategy				3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.5.1		6. REQUIRING OFFICE SFAE-CSS-TV-JL/SE		
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY SEE BLK 16		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro	
8. APP CODE N/A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			
16. REMARKS						SEE BLK 16	
<p>Block 4: The Manufacturing Development Strategy includes JLTV Manufacturing Plan, The JLTV Tooling and Special Test and Inspection Equipment (STE/SIE) plans, and the JLTV Plant Process Flow Diagrams. The Contractor shall utilize the criteria and processes defined in MIL-HDBK-896 Manufacturing and Quality Program and DoD MRL Deskbook (latest editions) as guides for this effort, including definitions and measurement of MRLs.</p> <p>The Manufacturing Plan shall include the following manufacturing items: Organizational and responsibility charts, manufacturing facilities, utilization of floor space, Tooling and STE / SIE, manufacturing equipment maintenance, manpower requirements and utilization, hiring and training, manufacturing process, station cycle time, Work Instructions, Long Lead Items, Make / Buy decisions, manufacturing risks and mitigation plans, critical manufacturing processes, yields and rates, producibility improvements, line integration method with other products (if applicable), material management, Learning Curve projections, ISO Certification, inspection process, documentating / tracking / resolving build issues, corrective / preventive action and control of non-conforming product, final build and acceptance, Supply Chain Management process, Supplier Support documents, reference documents, and any other applicable documents.</p> <p>The Plan shall also answer the following:</p> <ul style="list-style-type: none"> • Indication of the key decision points (e.g. "Decision Gates") with inputs and outputs • Overview of the quality checks to be performed throughout the program (design and build) • Outline of the QA roles and responsibilities as it relates to the JLTV development program • Overview of any Manufacturing / Production Assessment deliverables, and how they support the overall attainment of manufacturing goals • Explanation of the quality measurements to be used in the JLTV program, including type of measurement, how it is recorded, intent of measurement, frequencies and how they relate to the Manufacturing Plan. • Methods to be used to minimize variation (product and process) • Required manpower and descriptions. How the contractor's staff is to be trained in all areas outlined in the control plan and how they adhere to the established management plan. <p>The Tooling and STE / SIE Plan shall include the existing LRIP tool list and the initial FRP tool list for JLTV FRP that identifies all Tooling and STE / SIE required to produce the JLTV.</p>							
						15. TOTAL	
G. PREPARED BY			H. DATE		I. APPROVED BY		
J. DATE							

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <u>X</u>							
D. SYSTEM/ITEM JOINT LIGHT TACTICAL VEHICLE (JLTV)			E. CONTRACT/PR NO.			F. CONTRACTOR					
1. DATA ITEM NO. B017	2. TITLE OF DATA ITEM Manufacturing Development Strategy				3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.5.1		6. REQUIRING OFFICE SFAE-CSS-TV-JL/SE						
7. DD 250 REQ LT	9. DIST STATEMENT	10. FREQUENCY SEE BLK 16		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION					
8. APP CODE N/A	C	11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16							
16. REMARKS (Cont'd) 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).						SEE BLK 16					
G. PREPARED BY			H. DATE		I. APPROVED BY						

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>							
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR					
1. DATA ITEM NO. B027	2. TITLE OF DATA ITEM SOFTWARE TEST PLAN (STP)				3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) DI-IPSC-81438A			5. CONTRACT REFERENCE C.2.1.2.4.3		6. REQUIRING OFFICE SFAE-CSS-JL/SE						
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro					
8. APP CODE A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16							
16. REMARKS Block 4: If the Contractor proposes to change or revise contract requirements, tasks, activities, or responsibilities included in the DID, the rationale for the change shall be provided in the STP. Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial submission required 30 days prior to Functional Baseline Review (FBR). Block 13: Subsequent submission and Government approval is required if there is any deviation from the STP or its associated documents and processes. 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).						SEE BLK 16					
						15. TOTAL					

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR						
1. DATA ITEM NO. B028	2. TITLE OF DATA ITEM Cybersecurity Log Management Plan				3. SUBTITLE							
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.5.7		6. REQUIRING OFFICE SFAE-CSS-JL/SE							
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 A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16								
16. REMARKS Block 4: The Cybersecurity Log Management Plan shall include the following items: a. identification, format and location of audit logs b. event and file audit logging settings c. access control restrictions on audit log files and folders d. audit log management and archive process e. audit event-based management and alerting Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial submission required 45 days prior to Baseline Cybersecurity Scan. Block 13: A subsequent submission, which will be placed under formal Configuration Management (CM), is required 60 days after the Baseline Cybersecurity Scan. If there are proposed changes, Additional submissions are required NLT 5 days prior to Configuration Control Board (CCB) meeting in which proposed changes are reviewed. 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).						14. DISTRIBUTION						
						a. ADDRESSEE		b. COPIES				
								Draft		Final		
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						SEE BLK 16						
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					J. DATE							

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>							
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR					
1. DATA ITEM NO. B029	2. TITLE OF DATA ITEM Cybersecurity Software Vulnerability Management Plan				3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.2.5.8		6. REQUIRING OFFICE SFAE-CSS-JL/SE						
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro					
8. APP CODE A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16							
16. REMARKS Block 4: The Cybersecurity Software Vulnerability Management Plan shall include the following items: a. source, chain of custody, and verification of software patches b. patch integration and testing c. patch deployment and verification d. patch application and verification on smart displays e. process for out-of-band or emergency patches Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial submission required 45 days prior to Baseline Cybersecurity Scan. Block 13: A subsequent submission, which will be placed under formal Configuration Management (CM), is required 60 days after the Baseline Cybersecurity Scan. If there are proposed changes, Additional submissions are required NLT 5 days prior to Configuration Control Board (CCB) meeting in which proposed changes are reviewed. 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).						SEE BLK 16					
						15. TOTAL					
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR						
1. DATA ITEM NO. B031	2. TITLE OF DATA ITEM Data Accession List (DAL)				3. SUBTITLE							
4. AUTHORITY (Data Acquisition Document No.) DI-MGMT-81453			5. CONTRACT REFERENCE C.2.1.1.6.14		6. REQUIRING OFFICE SFAE-CSS-TV-JL/SE							
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								
16. REMARKS Block 12: Initial submission 90 days after Contract award. Subsequent DALs within 10 days following the end of each year. Block 13: Final submission no later than 60 days prior to the end of contract. 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).						b. COPIES						
						a. ADDRESSEE		Draft		Final		
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						SEE BLK 16						
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>			
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR	
1. DATA ITEM NO. B032	2. TITLE OF DATA ITEM Interface Control Document (ICD)				3. SUBTITLE		
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-81248A, SEE BLK 16			5. CONTRACT REFERENCE C.2.1.1.6.13		6. REQUIRING OFFICE SFAE-CSS-JL/SE		
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro	
8. APP CODE A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16			
16. REMARKS Block 4: The DID is tailored as follows, delete - "Data Item submittal in Extensible Markup Language (XML) is acceptable. An XML Document Type Definition (DTD), associated XML document template, and other information is available from http://www.geia.org/836/ " - "2e. the links to the actual documentation defining the released/approved interface information for the project" In addition to the content of the DID, The Contractor shall address all the required content in Attachment SOWC 3172 and each JLTV FOV ICD shall include: - Technical Data Package part number and revision - 2-D drawings, 3-D models, and/or lists of all mechanical, electrical, and software interface information within the same Part File - A cross-reference listing of all Mission Package Configuration (GP, CCWC, or UTL) this ICD applies Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 10: After the initial PCA, ICDs shall be updated when changes to the configuration effect the applicable ICDs Block 12: Initial submission is due 14 days prior to the Product Baseline Review. Block 13: Final submission is due 5 days prior to the Initial Configuration Audit. Block 14: The Government Representative and PCO shall be notified when the ICDs have been submitted to the Contractor web-based CM system.						SEE BLK 16	
						15. TOTAL	
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>				
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.		F. CONTRACTOR			
1. DATA ITEM NO. B037	2. TITLE OF DATA ITEM Engineering Release Record (ERR)			3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80463C, SEE BLK 16			5. CONTRACT REFERENCE C.2.6.11.4		6. REQUIRING OFFICE FAE-CSS-TV-JL/SE			
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION SEE BLK 16				
8. APP CODE A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16				
16. REMARKS Block 4: The DID is tailored as follows, delete "Data Item submittal in Extensible Markup Language (XML) is acceptable. An XML Document Type Definition (DTD), associated XML document template, and other information is available from http://www.geia.org/836/ " Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Submit an ERR package within 10 days of: 1) Government approval of each ECP or 2) Government design approval of new product baseline. 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 13: Submit a final, contract closeout ERR package no less than 45 days before end of contract, incorporating all approved changes to date that were not previously delivered. 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).			SEE BLK 16					
			15. TOTAL					
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT B	C. CATEGORY: TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM JPO JLTV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. B039	2. TITLE OF DATA ITEM Vulnerability Analysis Input Data	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) See Block 16	5. CONTRACT REFERENCE C.2.1.4.3, C.2.1.4.4	6. REQUIRING OFFICE SFAE-CSS-JL/SE
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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

16. REMARKS Block 4: The CDRL shall consist of completed Vulnerability Analysis input data sheets 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). Block 6: SE = Government Systems Engineering Integrated Product/Process Team. Block 9: If content is as at the For Official Use Only (U/FOUO) level, the CDRL shall be marked as "Distribution F". If content is at the SECRET level, refer to the JLTV security classification guide (27 Nov 2013) for proper marking. Block 12: Initial submission is due 30 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.	15. TOTAL → 0 0 0
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>				
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR		
1. DATA ITEM NO. B040	2. TITLE OF DATA ITEM Computer Aided Engineering (CAE) Models				3. SUBTITLE Computer Aided Engineering (CAE) Models			
4. AUTHORITY (Data Acquisition Document No.) See Block 16			5. CONTRACT REFERENCE C.2.1.4.4, C.2.1.4.5		6. REQUIRING OFFICE SFAE-CSS-JL/SE			
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION SEE BLK 16		14. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro		
8. APP CODE A		11. AS OF DATE N/A		13. DATE OF SUBSEQUENT SUBMISSION SEE BLK 16				
16. REMARKS Block 4: The CDRL shall consist of CAE Models IAW the Contract Reference in Block 5. 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. Computer Aided Engineering (CAE) Models for Blast, Vulnerability, Crashworthiness/Safety, and Thermal M&S for each JLTV variant shall contain the following: 1. Finite Element Model (FE) Mesh Requirements 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). 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 SOW-136 Vulnerability Analysis Input Data Sheets. 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: 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 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 iii. <u>Time Step</u> The time step of the model shall be ≤ 5X10 ⁻⁷ seconds. 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.						SEE BLK 16		
G. PREPARED BY						H. DATE	I. APPROVED BY	J. DATE
						15. TOTAL		

CONTRACT DATA REQUIREMENTS LIST

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

16. REMARKS (Continued)

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.

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.
- 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. 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.

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CONTRACT DATA REQUIREMENTS LIST

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

16. REMARKS (Continued)

5. Finite Element Model Requirements for Thermal Simulation

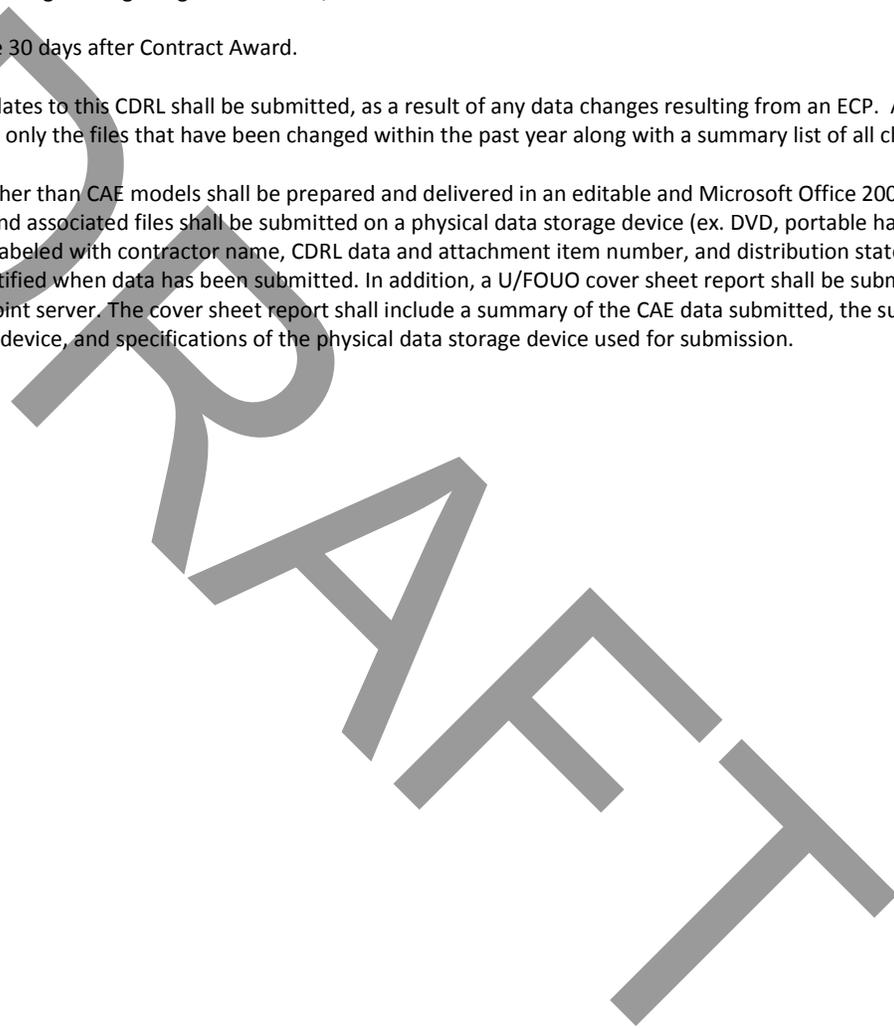
- a. Computational Fluid Dynamics (CFD) and mesh numerical models used for powertrain cooling and vehicle interior heating/cooling analyses in Star-CCM+ readable format, including boundary conditions and material property definitions used in the analyses shall be provided. Boundary conditions and property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

Block 6: SE = Government Systems Engineering Integrated Product/Process Team.

Block 12: Initial submission is due 30 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 that have been changed within the past year along with a summary list of all changes.

Block 14: Portions of the CDRL other than CAE models shall be 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), 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 when data has been submitted. In addition, 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 CAE data submitted, the submission date of the physical data storage device, and specifications of the physical data storage device used for submission.



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A. CONTRACT LINE ITEM NO.	B. EXHIBIT B	C. CATEGORY: TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM JPO JLTV	E. CONTRACT/PR NO.	F. CONTRACTOR
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1. DATA ITEM NO. B041	2. TITLE OF DATA ITEM Production Technical CAD Data	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16	5. CONTRACT REFERENCE C.2.1.1.6.12, C.2.1.4.4	6. REQUIRING OFFICE SFAE-CSS-JL/SE
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7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED 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 CDRL shall consist of Production Technical CAD Models IAW the Contract Reference in Block 5. All CAD model deliveries shall be the output of the most current production TDP. DI-SESS-81000E(T) - The DID is tailored as follows; Requirements: 2. General. Delete 2b "Provide the engineering data for Logistics Support products." and 2c "Provide the necessary data to permit competitive acquisition of the original item(s)." Also delete 4a, b, d, j, k, n, o, p, and q. In addition to the content of the DID, Product Models shall meet the requirements of the contract, its continuation sheets, and associated attachment content. The 3D CAD models shall be in global body position. CAD models shall include Special Characteristics. DI-SESS-81003E - Before acquiring Commercial Drawings and Associated Lists, the acquiring activity shall evaluate the contractor's drawing package and engineering documentation practices to determine if the data will be satisfactory for the Government's intended uses. Block 6: SE = Government Systems Engineering Integrated Product/Process Team. Block 12: Initial submission is due 30 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 that have been changed within the past year along with a summary list of all changes. Block 14: The submission shall be prepared and delivered PTC Creo 2.0 format. Portions of the CDRL other than CAD models shall be prepared and delivered in an editable and Microsoft Office 2007 file format (MS Word, MS Excel). CAD data and associated files shall be submitted on a physical data storage device (ex. DVD, portable hard drive), and the device shall be properly labeled with contractor name, CDRL data item and attachment number, and distribution statement. The Government IPT Lead shall be notified when data has been submitted. In addition, 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 → 0 0 0
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17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR						
1. DATA ITEM NO. B043	2. TITLE OF DATA ITEM Technical Report Study/Service			3. SUBTITLE Growth Margin Anlysis								
4. AUTHORITY (Data Acquisition Document No.) DI-MISC-80508B – SEE BLK 16			5. CONTRACT REFERENCE C.2.1.1.6.18.8,		6. REQUIRING OFFICE SFAE-CSS-JL/SE							
7. DD 250 REQ LT	9. DIST STATEMENT C	10. FREQUENCY 2TIMES		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								
16. REMARKS Block 4: In addition to the content of the DID, the CDRL shall consist of the results of the analyses described in the Contract References in Block 5. Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial submission is due at 30 days prior to the Allocated Baseline Review (ABR). Block 13: Final submission is due at 30 days prior to the Physical Configuration Audit (PCA), based on the final JLTV equipment configuration(s). 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 and Microsoft Office 2010 file format (MS Word, MS Excel).						a. ADDRESSEE		b. COPIES				
						Draft		Final				
						Reg		Repro				
						SEE BLK 16						
15. TOTAL												

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>							
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR					
1. DATA ITEM NO. B046	2. TITLE OF DATA ITEM Co-site Interference and Antenna Optimization Report				3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.6.2.1.2		6. REQUIRING OFFICE SFAE-CSS-JL/SE						
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							
16. REMARKS Block 4: The deliverable shall include detailed placement diagrams to identify the location of each antenna, wiring routing, and ancillary radio system devices mounted on the vehicle. The deliverable shall include radio frequency (RF) performance characteristics for each antenna installed in the production location. Co-site interference shall be considered in the analysis of antenna RF performance individually and collectively for each vehicle configuration IAW Annex K. Additional RF equipment included in the antenna system shall be identified (e.g. interconnects, splitters, filters, and amplifiers). Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial Submission, which will be placed under formal Configuration Management (CM), is due at the Product Baseline Review (PBR). Block 13: If there are proposed changes, additional submissions are required NLT 5 days prior to Configuration Control Board (CCB) meeting in which proposed changes are reviewed. 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)						SEE BLK 16					
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G. PREPARED BY			H. DATE		I. APPROVED BY						
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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>							
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR					
1. DATA ITEM NO. B047	2. TITLE OF DATA ITEM Vehicle Network Configuration Package				3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.1.6.18.2		6. REQUIRING OFFICE SFAE-CSS-JL/SE						
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							
<p>16. REMARKS</p> <p>Block 4: Structure/format for this deliverable shall be coordinated with the Government prior to delivery.</p> <p>The Vehicle Network Configuration package shall include:</p> <ul style="list-style-type: none"> a. The detailed Internet Protocol (IP) Addressing schema include addressing, sub-netting, routing/switching and other network attached device configurations for all internal and external networks configured on the JLTV FoV. b. A report describing JLTV compliance with IPv6 and IPv4 with IPv6 policies and the DoD IPv6 Capable definitions as specified in the DoD CIO Memorandum, DoD Internet Protocol Version 6 (IPv6) Definitions (26 June 2008). c. Configuration files for routers/switches on the C4ISR/EW data bus for each delivered vehicle. d. The detailed Controller Area Network (CAN) database file for the Vehicle Sensor (J1939) data bus(es), including messaging, addresses, data fields, states, etc. <p>Block 6: SE = Government Systems Engineering Integrated Product/Process Team</p> <p>Block 12: Initial Submission, which will be placed under formal Configuration Management (CM), is due at the Product Baseline Review (PBR).</p> <p>Block 13: If there are changes, additional submissions are required NLT 5 days prior to Configuration Control Board (CCB) meeting in which proposed changes are reviewed.</p> <p>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)</p>						SEE BLK 16					
						G. PREPARED BY			H. DATE		I. APPROVED BY
					J. DATE						
						15. TOTAL					

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B		C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>										
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR									
1. DATA ITEM NO. B049	2. TITLE OF DATA ITEM Health Management System (HMS) Report				3. SUBTITLE										
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.1.6.18.1			6. REQUIRING OFFICE SFAE-CSS-JL/SE									
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							
16. REMARKS Block 4: 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 as the FMEA and RCM analysis. Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial Submission is due 90 days after contract award. Block 13: A subsequent submission, which will be placed under formal Configuration Management (CM), is due at the Product Baseline Review (PBR). If there are proposed changes, additional submissions are required NLT 5 days prior to Configuration Control Board (CCB) meeting in which proposed changes are reviewed. 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								
G. PREPARED BY			H. DATE		I. APPROVED BY		J. DATE								
							15. TOTAL								

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A. CONTRACT LINE ITEM NO.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>								
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR						
1. DATA ITEM NO. B055	2. TITLE OF DATA ITEM System Interoperability Report				3. SUBTITLE							
4. AUTHORITY (Data Acquisition Document No.) See Block 16			5. CONTRACT REFERENCE C.2.1.6.1.1.1		6. REQUIRING OFFICE SFAE-CSS-JL/SE							
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								
16. REMARKS Block 4: The CDRL shall consist of completed data sheets IAW the Contract Reference in Block 5. Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial Submission, which will be placed under formal Configuration Management (CM), is due at the Product Baseline Review (PBR). Block 13: If there are proposed changes, additional submissions are required NLT 5 days prior to Configuration Control Board (CCB) meeting in which proposed software changes are reviewed. 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)						b. COPIES						
						a. ADDRESSEE		Draft		Final		
								Reg		Repro		
						SEE BLK 16						
15. TOTAL												

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
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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.			B. EXHIBIT B	C. CATEGORY TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>							
D. SYSTEM/ITEM JPO JLTV			E. CONTRACT/PR NO.			F. CONTRACTOR					
1. DATA ITEM NO. B057	2. TITLE OF DATA ITEM Software Images and Executables				3. SUBTITLE						
4. AUTHORITY (Data Acquisition Document No.) SEE BLK 16			5. CONTRACT REFERENCE C.2.1.1.6.17		6. REQUIRING OFFICE SFAE-CSS-JL/SE						
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							
16. REMARKS Block 4: The CDRL shall include a complete set of software images and executables for all JLTV software. <ul style="list-style-type: none"> • System images and virtual machine images • Executable software for each CSCI, including any batch files, command files, data files, or other software files needed to install and operate the software on the target computer(s). • Build procedures above the CSCI level to prepare virtual machine and system images. Block 6: SE = Government Systems Engineering Integrated Product/Process Team Block 12: Initial Submission is due 90 days after contract award. Block 13: A subsequent submission, which will be placed under formal Configuration Management (CM), is due at the Product Baseline Review (PBR). If there are proposed changes, additional submissions are required NLT 5 days prior to Configuration Control Board (CCB) meeting in which proposed software changes are reviewed. Block 14: The information 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					
G. PREPARED BY			H. DATE		I. APPROVED BY		J. DATE				

