



**Attachment 0020
Vulnerability Data Sheet**

04 November 2011

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SECRET responses should use the following Classification/Declassification Instruction:

Derived From: JLTV SCG, dated 19 Sept 2008

Declassify On: 25 years from (date of document - NOT date of SCG)

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1. Information to be provided:

- a. Component Vulnerability Data. This data must match the configuration of components and subsystems in the delivered CAD models. For each component in the vehicle the following component information is required:
 - i. Component description (function, interfaces, power requirements)
 - ii. Location within vehicle
 1. Electrical boxes
 - a. Materials of construction (steel, aluminum, plastic, GRP, etc.)
 2. Casing material type and density, most critical dimensions
 3. Casing dimensions, wall thicknesses, internal layout of subcomponents
 4. Processing cards, power supplies, etc.
 5. Electrical wiring:
 - a. Harnesses – list of included cables
 - b. Cable/harness overall diameters
 - c. Cable/harness shielding/insulation material(s) and thickness
 - d. Cable conductor materials
 - e. Routing in vehicle - interconnect/interface diagrams
 6. Tubing/piping (cooling, lubrication, hydraulics, air):
 - a. Material types
 - b. Tubing Diameter
 - c. Tubing Wall Thickness
 - d. Pressures inside tubing
 - e. Routing in vehicle
 - f. For major mechanical components:
 - g. Material of construction
 - h. Dimensions
 - i. Details on internal subcomponents (number of barriers)
- b. Fault Tree and Damage Assessment List (DAL) data. These documents should match the configuration of components and subsystems in the delivered models.
- c. Top-Level vehicle design description:
 - i. Specifications/requirements
 - ii. Theory of operation
 - iii. Mission profile, mission description
 - iv. Interfaces - Communications, dismountables, other external links
 - v. Performance achievable per configuration provided in models
 - vi. Mobility - top speed, acceleration, grade performance, un-improved terrain performance, braking, etc.
 - vii. Communications - Data rates, bandwidth, connectivity, etc.
 - viii. Other Mission capabilities
- d. Subsystem design descriptions
 - i. Specifications/requirements

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- ii. Component interfaces - control, power, cooling, etc.
 - iii. Interfaces with other subsystems - control, power, cooling, etc.
 - iv. Subsystem performance capabilities
- e. Specific documents:
- i. Architecture Descriptions/Schematics/Drawings (unless already delivered in CDRL Data Item A053)
 - ii. FMEA/FMECA
 - iii. All assembly drawings and Interface Control Documents (ICDs)
 - iv. Functional Analysis
 - v. Thermal Block Diagrams
 - vi. Electrical Block Diagrams
 - vii. Mechanical Block Diagrams
 - viii. Hydraulic Block Diagrams
 - ix. Cable Interconnect Drawings
 - x. Detailed, component-level mass property reports
 - xi. Existing component/system vulnerability test data
 - xii. Existing component/system performance test data