

ATTACHMENT 14

FUTURE TACTICAL TRUCK SYSTEMS (FTTS)

Survivability Analysis Data

18 November 2003

Contractors are required to supply the following data for Survivability Analysis:

1. CAD geometry in one of the following formats:
 - a. Pro/E (do not shrinkwrap)
 - b. .stl (stereolithography)
 - c. .obj
2. Radar: Xpatch input files and output files (if used)
3. Thermal:
 - a. .MuSES (Multi Service Electro-optical Signature code) TDF files - if used.
 - b. Weather files used in the analysis.
 - c. Description of Computational Fluid Dynamics (CFD) if used.
4. Acoustic: ADRPM (Advanced Detection Range Prediction Model) input and output files (if used)
5. Any additional files used for Survivability Modeling purposes.
6. Assumptions:
 - a. Describe assumptions made during the modeling process, such as estimates made about thermal and radar material properties as well as data input such as engine performance, etc.
 - b. Plus details of any specific heat generating item modeled in the analysis such as electronics, auxiliary power units, engine, and any other heat generating component capable of generating a hot spot on the outside of the vehicle.
 - c. Describe the data used in defining acoustic sources.