

## **THE ASSESSMENT OF RESPONSE TO NUCLEAR BLAST OF ANTENNAE, MASTS AND VEHICLES**

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Examples are given of the approach adopted in assessing by simple mathematical modeling the survivability of examples of the following types of communications equipment.

- (1) Antenna: The structure of antenna can be regarded as made of cantilevers, beams and plates. Each type of component generally yields at different blast level from the others.
- 2) Behavior of Masts and under Nuclear Blast Loading: Antenna are often mounted on masts which are thus loaded at the top. A short description of the general effect of blast loading on an antenna-mast combination is given.
- (3) Overturning of Vehicles: Overturning of vehicles by blast has been calculated using a simple rigid body mathematical analogue. This has been modified to show that vehicle suspension raises the critical threshold of blast required to just overturn a vehicle.