

ITEM 17 - CATEGORY II

Technology, materials, and devices for reduced observables such as radar reflectivity, optical/infrared signatures and acoustic signatures (i.e., stealth technology), for military application in rocket systems and unmanned air vehicles, and usable for the systems in Item 1, for example:

- (a) Structural materials and coatings specially designed for reduced radar reflectivity;
- (b) Optical coatings, including paints, specially designed or formulated for reduced optical reflection or emissivity, except when specially used for thermal control of satellites.

ITEM 18 - CATEGORY II

Technology and devices specially designed for use in protecting rocket systems and unmanned air vehicles against nuclear effects (e.g., Electromagnetic Pulse (EMP), X-rays, combined blast and thermal effects), and usable for the systems in Item 1, for example:

- (a) Hardened microcircuits and detectors specially designed to withstand radiation as follows:
 - (1) Neutron dosage of 1×10^{12} neutrons/cm² (single event);
 - (2) Gamma dose rate of 1×10^9 rads/sec;
 - (3) Total dose 1500 rads (single event).
- (b) Radomes specially designed to withstand a combined thermal shock greater than 100 cal/cm² accompanied by a peak overpressure of greater than 7 pounds per square inch.

Note to Item 18(a): A microcircuit is defined as a device in which a number of passive and active circuit elements are considered as indivisibly associated on or within a continuous structure to perform the function of a circuit.