(1) A conversion rate of more than 200,000 complete conversions per second at rated accuracy;

(2) An accuracy in excess of 1 part in more than 10,000 of full scale over the specified operating temperature range;

(3) A figure of merit of 1×10^8 or more (derived from the number of complete conversions per second divided by the accuracy).

(b) Analog-to-digital converter microcircuits having both of the following characteristics:

(1) A maximum conversion time to maximum resolution of less than 20 microseconds;

(2) A rated non-linearity of better than 0.025 percent of full scale over the specified operating temperature range.

ITEM 15 - CATEGORY II

Test facilities and equipment usable for the systems in Item 1, as follows:

(a) Vibration test equipment using digital control techniques and specially designed ancillary equipment and software therefor capable of imparting forces of 100 kN (22,500 lbs) or greater;

(b) Supersonic (Mach 1.4 to Mach 5), hypersonic (Mach 5 to Mach 15), and hypervelocity (above Mach 15) wind tunnels, except those specially designed for educational purposes and having a test section size (measured internally) of less than 25 cm (10 inches);

(c) Test benches with the capacity to handle solid or liquid fuel rockets of more than 20,000 lbs of thrust, and capable of measuring the three thrust components.

Note to Item 15(a): The term "digital control" refers to equipment, the functions of which are, partly or entirely, automatically controlled by stored and digitally coded electrical signals.

ITEM 16 - CATEGORY II

Specially designed software, or specially designed software and related specially designed analog or hybrid (combined analog/digital) computers, for modeling, simulation, or design integration of rocket systems and unmanned air vehicle systems, usable for the systems in Item 1.