

- (2) Equipment for the vapor deposition of elements or compounds on heated filamentary substrates; and
- (3) Equipment for the wet-spinning of refractory ceramics (such as aluminum oxide);
- (e) Specially designed or adapted equipment for special fibre surface treatment or for producing prepregs and preforms. Note: Equipment covered by this sub-item includes but is not limited to rollers, tension stretchers, coating equipment, cutting equipment and clicker dies.
- (f) Technical data (including processing conditions) and procedures for the regulation of temperature, pressures or atmosphere in autoclaves when used for the production of composites or partially processed composites.

Note to Item 6: Specially designed or adapted components and accessories for the machines covered by this entry include, but are not limited to, moulds, mandrels, dies, fixtures and tooling for the preform pressing, curing, casting, sintering or bonding of composite structures, laminates and manufactures thereof.

#### ITEM 7 - CATEGORY II

Pyrolytic deposition and densification equipment and technology as follows:

- (a) Technology for producing pyrolytically derived materials formed on a mold, mandrel or other substrate from precursor gases which decompose in the 1300°C to 2900°C temperature range at pressures of 1 mm Hg to 150 mm Hg (including technology for the composition of precursor gases, flow-rates, and process control schedules and parameters);
- (b) Specially designed nozzles for the above processes;
- (c) Equipment and process controls, and specially designed software therefor, specially designed for densification and pyrolysis of structural composite rocket nozzles and reentry vehicle nose tips.

#### ITEM 8 - CATEGORY II

Structural materials usable in the systems in Item 1, as follows:

- (a) Composite structures, laminates, and manufactures thereof, including resin impregnated fibre prepregs and metal coated fibre preforms therefor, specially designed for use in the systems in Item 1 and the subsystems in Item 2 made either with an organic matrix or metal matrix utilizing fibrous or filamentary reinforcements having a specific tensile strength greater than  $7.62 \times 10^4 \text{m}$  ( $3 \times 10^6$  inches) and a specific modulus greater than  $3.18 \times 10^6 \text{m}$  ( $1.25 \times 10^8$  inches);
- (b) Resaturated pyrolyzed (i.e., carbon-carbon) materials specially designed for rocket systems;