4104. Plants for the fabrication of fuel elements, and equipment that is specially designed or prepared therefor, including equipment that

- (a) normally comes into direct contact with or directly processes or controls the production flow of nuclear materials;
- (b) seals the nuclear material within the cladding;
- (c) checks the integrity of the cladding or the seal; and
- (d) checks the finish treatment of the solid fuel.

4105. Plants for the production or concentration of deuterium or deuterium compounds and equipment that is specially designed or prepared therefor.

4106. Plants and systems, and specially designed or prepared equipment therefor, for the processing of special and other fissionable materials and source materials, including

- (a) plants and systems for the production of uranium hexafluoride;
- (b) plants and systems for the conversion of plutonium nitrate to plutonium oxide; and
- (c) plants and systems for the production of plutonium metal.

Atomic Energy Related Equipment

4201. Neutron generator systems, including tubes, that are designed for operation without an external vacuum system and that utilize electrostatic acceleration to induce a tritium-deuterium nuclear reaction.

4202. Power-generating or propulsion equipment that is specially designed or prepared for use with military, space, marine or mobile nuclear reactors.

4203. Electrolytic cells that are for the production of fluorine and that have a production capacity of greater than 0.25 kg of fluorine per hour.

4204. Equipment that is specially designed or prepared for the separation of isotopes of lithium.

4205. Plants for the production, recovery, extraction, concentration or handling of tritium and its compounds and mixtures, and specially designed or prepared equipment therefor.

4206. Frequency changers, converters or inverters that are specially designed or prepared to supply motor stators for gas centrifuge enrichment, and subassemblies and specially designed components therefor, and that have

- (a) a multiphase output of 600 to 2 000 Hz;
- (b) a frequency control of better than 0.1 per cent;
- (c) a harmonic distortion of less than 2 per cent; and
 - d) an efficiency of greater than 80 per cent.

4220. Mass spectrometers that are specially designed or modified for measuring from on-line samples the isotopic composition of feed, product or tails from uranium hexafluoride gas streams and that have

- (a) a unit resolution for mass greater than 320;
- (b) an ion-source utilizing electron bombardment that is
 - (i) nickel-plated,
 - (ii) constructed of nichrome or monel, or
 - (iii) lined with nichrome or monel; and
- (c) a collector system that is suitable for isotopic analysis.

4221. Process control instrumentation that is specially designed or modified for monitoring or controlling the processing of irradiated source materials and special and other fissionable materials.