

8. *Primary coolant pumps:* Pumps especially designed or prepared for circulating the primary coolant for nuclear reactors as defined in paragraph 1 above.

9. *Facilities for the reprocessing of irradiated fuel elements,* and equipment especially designed or prepared therefor.

A "Facility for the reprocessing of irradiated fuel elements" includes the equipment and components which normally come in direct contact with and directly control the irradiated fuel and the major nuclear material and fission product processing streams. In the present state of technology only two items of equipment are considered to fall within the meaning of the phrase "and equipment especially designed or prepared therefor". These items are:

- (a) Irradiated fuel element chopping machines: remotely operated equipment especially designed or prepared for use in a reprocessing plant as identified above and intended to cut, chop or shear irradiated nuclear fuel assemblies, bundles or rods; and
- (b) Critically safe tanks (e.g. small diameter, annular or slab tanks) especially designed or prepared for use in a reprocessing plant as identified above, intended for dissolution of irradiated nuclear fuel and which are capable of withstanding hot, highly corrosive liquid, and which can be remotely loaded and maintained.

10. *Facilities for the fabrication of fuel elements:*

A "Facility for the fabrication of fuel elements" includes the equipment:

- (a) Which normally comes in direct contact with or directly processes, or controls, the production flow of nuclear material, or
- (b) Which seals the nuclear material within the cladding.

The whole set of items for the foregoing operations, as well as individual items intended for any of the foregoing operations, and for other fuel fabrication operations, such as checking the integrity of the cladding or the seal, and the finish treatment to the solid fuel.

11. *Equipment, other than analytical instruments, especially designed or prepared for the separation of isotopes of uranium:*

"Equipment, other than analytical instruments, especially designed or prepared for the separation of isotopes of uranium" includes each of the major items of equipment especially designed or prepared for the separation process.

12. *Facilities for the production of heavy water:*

A "Facility for the production of heavy water" includes the plant and equipment specially designed for the enrichment of deuterium or its compounds.

13. Major components of Items 1 to 12 above, as well as any significant fraction of the items essential to the operation of a facility for the reprocessing or enrichment of nuclear material or the production of heavy water.