

- (9) Plants for the reprocessing of irradiated fuel elements and equipment especially designed or prepared therefore.

A "plant 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 therefore":

- (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) Plants for the fabrication of fuel elements and equipment especially designed or prepared therefore:

A "plant for the fabrication of fuel elements" includes:

- (a) the equipment which normally comes into direct contact with, or directly processes, or controls, the production flow of nuclear material, or
 - (b) the equipment which seals the nuclear material within the cladding, and
 - (c) 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 sealed fuel.
- (11) Equipment, other than analytical instruments, especially designed or prepared for the separation of isotopes or 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. Such items include:

- gaseous diffusion barriers
- gaseous diffuser housings
- gas centrifuge assemblies, corrosion-resistant to UF₆
- jet nozzle separation units
- vortex separation units
- large UF₆ corrosion-resistant axial or centrifugal compressors
- special compressor seals for such compressors.