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4.0 CONTAINMENT

4.1 DESCRIPTION OF THE CONTAINMENT SYSTEM

4.1.1 Containment Boundary

The Traveller package is limited to transporting unirradiated, low enriched uranium, nuclear fuel assemblies and rods. The radioactive material, bound in sintered pellets having very limited solubility, has minimal propensity to suspend in air. These pellets are sealed in fuel tubes to form the fuel rods portion of each assembly.

Containment System is described in both TSR-1 (§213) and 10CFR71.4 as, “the assembly of components of the packaging intended to retain the radioactive material during transport.” The Containment System for the Traveller consists of the fuel rods.

4.2 GENERAL CONSIDERATIONS

4.2.1 Type A Fissile Packages

For type A fissile packages, no loss or dispersal of radioactive material is permitted under normal conditions of transport as specified in 10CFR71.43(f). It has been demonstrated from repeated normal drop scenarios that there is no loss of fissile material from the rods, and therefore no dispersal. Therefore, the containment system remains intact.

4.3 APPENDICES

4.3.1 References

None.