



Surplus Plutonium Disposition Supplemental Environmental Impact Statement (SPD Supplemental EIS)



Transportation Packages

Design and Testing Requirements:

Plutonium, unirradiated mixed oxide (MOX) fuel assemblies, and transuranic (TRU) waste would be transported in U.S. Nuclear Regulatory Commission (NRC) certified Type B transportation containers. Type B transportation containers must withstand a series of hypothetical accidents to demonstrate their ability to withstand extreme conditions without breaking open or releasing radiation including:

- Free-Drop Test
- Puncture Test
- Thermal Test



Free Drop Test

Free dropping a package from 30-feet onto a unyielding target.



Puncture Test

Dropping a package from 40-inches onto a 6-inch diameter, welded steel spike that is bolted to the unyielding target.



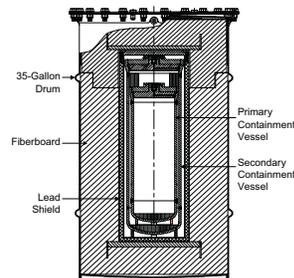
Thermal Test

Placing a package 40-inches above a fully engulfing pool of burning fuel for 30-minutes at 800 degrees Celsius or 1,475 degrees Fahrenheit.

Examples of Transportation Packages that May be Used:

Type B transportation packages that could be used to transport radioactive materials include:

- 9975
- Hanford Unirradiated Fuel Package (HUF)P
- MOX Fuel Package - NRC reviewing designs
- TRUPACT-II



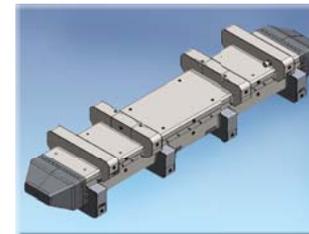
9975

For transport of surplus plutonium



HUF)P

For transport of FFTF fuel



Proposed MOX Fuel Package

For transport of fresh MOX fuel



TRUPACT-II

For transport of transuranic waste