

**Package Design N° 2999A**  
**Package Name: SAFESHIELD**



## **Type**

Designed as a B(U) Package to the IAEA Regulations for the Safe Transport of Radioactive Material (TS-R-1).

## **Certification**

The packaging has been certified by the US DOE for DOE use and is currently being certified through the US NRC for shipments in the USA and internationally.

## **Description**

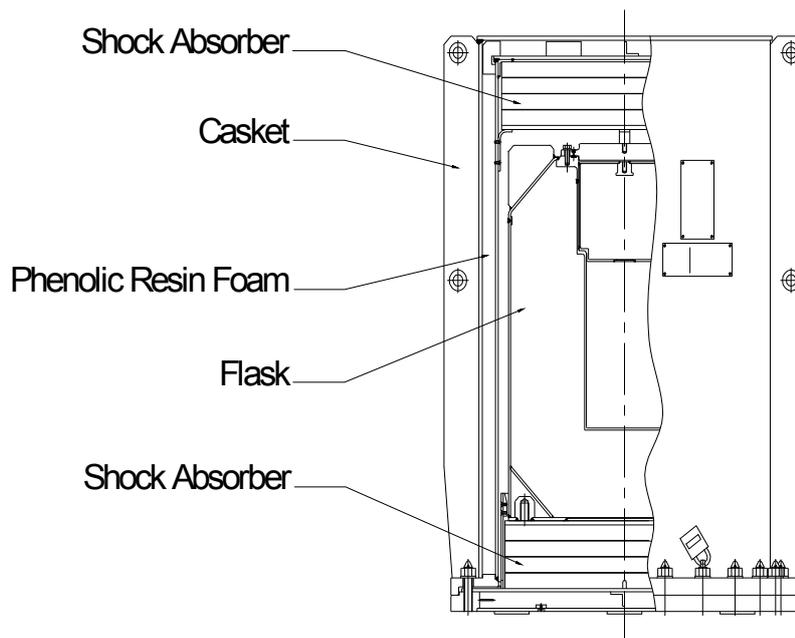
The outer container, Casket Design N° 2999, is a 'double shell' welded cylindrical casket manufactured in low carbon steel with a circular bolted closure at the base. The space between the 'shells' is filled with phenolic resin foam as a thermal insulant.

The inner container, Flask Design N° 2993, is a robust and compact shielded flask. The flask is a welded stainless steel construction incorporating lead shielding. Access to the cavity is gained by removing a bolted flange and lead filled plug.

## **Containment**

The closure of the inner container Design N° 2993 is in the form of a separate flange with double O-ring seals. The interspace between the O-ring seals facilitates leakage testing to ensure that the seals achieve the prescribed levels of leaktightness. As the flange is separate from the shielding plug, the final closure and subsequent leakage testing can be carried out in a low radiation exposure area.

## Section through Package Design N° 2999A



### Approved Contents

Maximum activity of:

$^{60}\text{Co}$	555 TBq	(15 kCi)
$^{137}\text{Cs}$	3774 TBq	(102 kCi)
$^{192}\text{Ir}$	3000 TBq	(81 kCi)

Maximum heat emission not to exceed 234 watts.

Shielding thickness 213 mm (8.4") lead.

Approval for other contents in solid form could be approved if required, subject to a safety review.

### Physical Data

Parameter	Drum Casket 2999	Flask 2993	Plug 262
External Diameter	1039 mm	669 mm	262 mm
External Height	1396 mm	918 mm	241 mm
Internal diameter	727 mm	220 mm	-
Internal Height	945 mm	402 mm	-
Weight	1050 kg	2840 kg incl plug	140 kg
Maximum weight of contents			100 kg
Maximum weight of Package Design N° 2999A including contents			3990 kg

### Further Information

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