ES-4100 Container Program



Joint TRTR and IGORR Conference

September 19-23, 2010 Knoxville, TN

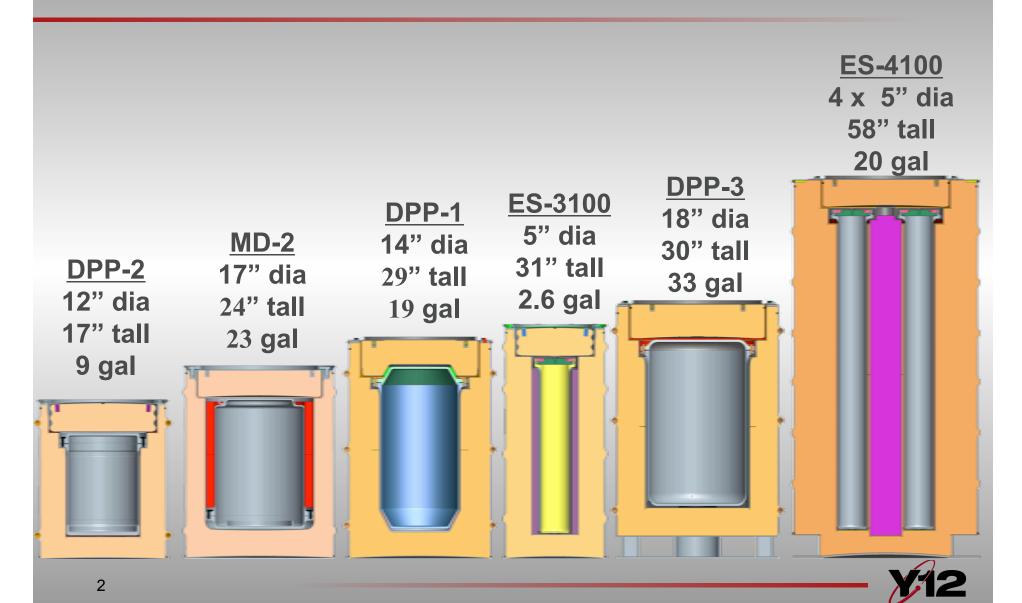


Presented by:

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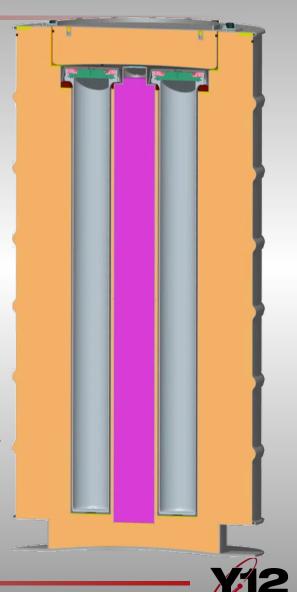


Y-12 Family of Type B Packages



Design Features

- Multi-pack 4 CVs per drum
- CV inner dimensions
 - 5.0 in. dia by 58 in.
- Outer drum size
 - 34.0 in. dia x 71 in.
- Insulation
 - Kaolite 1600
- Neutron absorber
 - Cast ceramic w/B₄C
- Gross weight approx 2000 lb.
 - Less than gross weight of four 6M-110's
- Content weight allowance 4 X 88 lb



Typical Contents

- Univ of Missouri Reactor Fuel MURR
- Engr Test Reactor Fuel ETR
- GE Test Reactor Fuel GETR
- Mass Inst of Tech Reactor Fuel MIT
- Loose ATR Fuel Rods



Primary Components

Drum assembly

Containment vessels







Drum lid

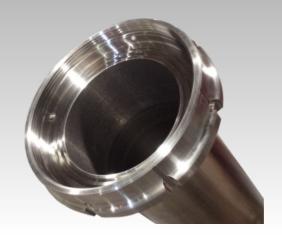


Open drum view



Containment Vessel Details











Inside View Showing 4 Vessels





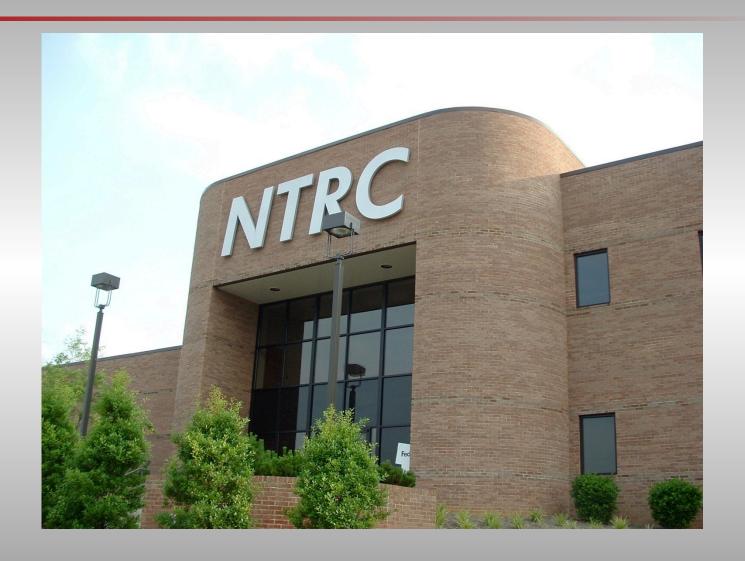
Containment Vessel Insertion







Prototype Testing at ORNL





Prototypes in NTRC Test Lab





Forward Schedule

Prototypes delivered August 2010

Full scale testing starts

October 19, 2010

SARP submittal to NNSA regulators February 2011

Certificate expected February 2012

Productions begins October 2011

Implementation expected July 2012

