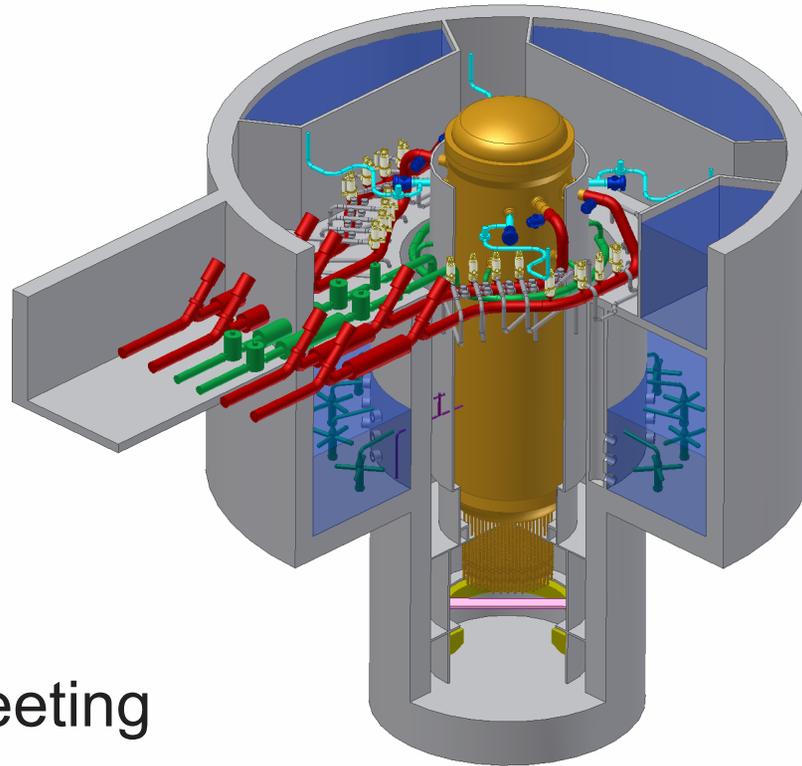


Radwaste Building



ESBWR Pre-application Meeting
October 12 and 13, 2004 

Rad Waste Building

- Radwaste Building will house rooms and equipment for handling, processing and packaging liquid and solid radioactive wastes
 - > Will be a standalone structure
- Design of the Liquid Radwaste system is in preliminary stages
 - > ESBWR will have a nominal permanently installed capability
 - > Will augment normal capability through the use of portable temporary equipment
 - > Space and connections for portable temporary equipment will be included in the design

Rad Waste Building (cont)

- GE will follow Reg Guide 1.143 rev. 2
 - > GE expects to apply the design criteria applicable to class RW-IIb (Hazardous)
 - > The largest storage tanks in the building hold liquids that contain low levels of radioactive material
 - The concentrated liquid radwaste is confined to much smaller volumes
 - Spent Resins
 - > Unable to determine at this time if ESBWR will meet the criteria for RW-IIb for all liquid volumes
 - If the only specific volumes of waste would cause the ESBWR to be classified as RW-IIb , GE will likely pursue the alternative of hardening the compartments that contain this limited quantity of material

Rad Waste Building (cont)

- GE believes that this approach is consistent with the provisions contained in RG 1.143
 - > Specifically regulatory position 6.2.2
 - Hardened (shield) structures would comply with design requirements applicable to class RW-IIa

Requested NRC Actions

- Confirm that hardening of selective radioactive waste compartments is an acceptable alternative to designing the whole rad waste building substructure to the more conservative classification