

Public Version



# **Shielding Evaluation – 8/23/11 Seismic Event**

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July, 2012

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# Shielding Analysis Overview



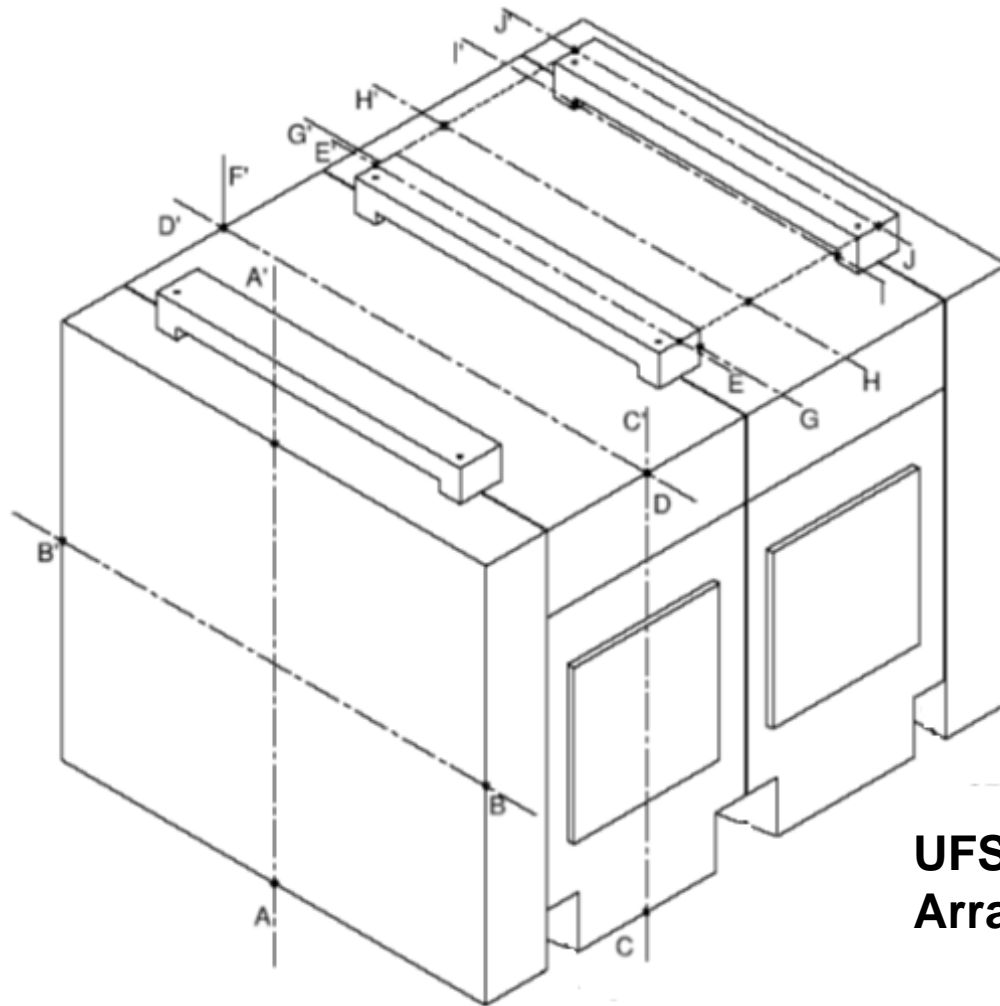
- ▶ **Shielding Analysis Methodology**
- ▶ **Shielding Evaluation for 08/23/11 Seismic Event**
- ▶ **Preliminary Results of Shielding Evaluations**

# Shielding Analysis Methodology



- ▶ **Shielding Analysis is based on a fully loaded Design Basis Source 32PTH DSC within the HSM-H**
- ▶ **MCNP Code – MCNP4C2 is employed to determine the HSM-H dose rates**
- ▶ **The storage configuration/results based on existing UFSAR model:**
  - ◆ **32PTH DSC within the HSM-H**
  - ◆ **Side shield wall on one side of the HSM-H**
  - ◆ **Reflective boundary on the other side of the HSM-H**
  - ◆ **Back shield wall**
  - ◆ **All dose rates are calculated for a single HSM-H**
- ▶ **Results from single HSM-H calculations are also employed to determine the HSM array dose rates**

# Shielding Analysis Methodology



**UFSAR model: 2x1  
Array of HSM-H**



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