

Public Version

Structural Evaluation – 8/23/11 Seismic Event



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Structural Analysis Overview



▶ 8/23/11 seismic event

- ◆ SSI analysis to calculate peak acceleration at HSM-H center of gravity
- ◆ Evaluation of HSM-H and 32PTH DSC

▶ Additional 8/23/11 seismic event

- ◆ Initial conditions based on post 8/23/11 seismic event configuration
- ◆ Evaluation of HSM-H, 32PTH DSC, and OS187H transfer cask

Structural Analysis - 8/23/11 Seismic Event Peak Acceleration



▶ SSI analysis

- ◆ Peak accelerations at HSM-H c.g. - 0.56g NS direction (Transverse direction of HSM-H), 0.29g EW direction (Longitudinal direction of HSM-H), 0.39g Vertical direction

▶ In CoC 1030, HSM-H was evaluated for the following acceleration at HSM-H c.g

- ◆ 0.37g Transverse direction of HSM-H, 0.33g Longitudinal direction of HSM-H, 0.2g Vertical direction

▶ In CoC 1030, 32PTH DSC (Canister and Basket) was evaluated for the following acceleration

- ◆ 0.65g Transverse direction of HSM-H, 0.65g Longitudinal direction of HSM-H, 0.3g Vertical direction



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