

Conversation Record Summary
Clarification Call with Holtec on HI-STORM Flood/Wind (FW) Amendment 7
February 28, 2024

Tom Boyce provided an overview of staff's review of Holtec's February 16, 2024 submittal. The analyses for some baskets are good: MPC-37, MPC-37-CBS, MPC-37P-CBS, and MPC-32ML, all in the Version E overpack. However, based on stress information gathered from Holtec's technical reports, the staff could not reach the conclusion that MPC-37-CBS and MPC-32ML are the bounding baskets for FW system. The staff noted their research concluded that 10 baskets have higher stresses than MPC-37-CBS and that the UVH overpack produces higher deceleration values. The staff requested validation on Holtec's chosen bounding MPCs as well as the overpack chosen for the analysis.

The proposed SAR discusses the screening criteria for new fuel baskets added to the SAR. The criteria contain two steps, plus an option of performing the stress analysis with the storage overpack that caused the maximum permanent deflection. The staff considered the optional stress analysis should be the third step instead of an option. The staff also questioned whether the screening criteria would pick the bounding baskets.

After further discussion, Holtec stated that it will remove the screening criteria and the use of the "beta" parameter from the Amendment No. 7 SAR and calculations. Holtec stated they will use the enhanced LS-DYNA to analyze MPC-89-CBS in standard overpack and MPC-37 in UVH overpack to further the confidence that the basket/overpack combinations have been chosen to bound all other basket/overpack pairings currently presented in the SAR. All future FW fuel baskets or overpacks will use the enhanced LS-DYNA model to determine the fuel basket stresses for each fuel basket/overpack pairing. Holtec will advise NRC as to its plans for resubmittal.

Actions agreed to:

- 1) Holtec will use the enhanced LS-DYNA to analyze two additional basket/overpack combinations: MPC-89-CBS in standard overpack and MPC-37 in the UVH overpack.
- 2) Holtec will remove the "beta" parameter from the Amendment No. 7 SAR and calculations. The replacement text would clearly identify the MOE for assessing other basket/overpack combinations.
- 3) Holtec will answer the staff's clarification RAIs.