

MAGNASTOR Amd. 13

TMI-2 Fuel Bearing Material Application

Date: April 6, 2022 (Open Session)

Overview

- Publicly open meeting portion
 - General overview of TMI-2 project scope
- Publicly closed meeting portion
 - TMI-2 TSC contents (fuel bearing material)
 - System design changes (TSC and basket)
 - Thermal, structural, criticality, and shielding analysis
 - Project schedule

General Overview

- TMI Unit 2 (TMI-2) incurred substantial core damage in 1979
- In the 1980's, work began on determining how to remove the damaged core from the reactor
- Later, the vast majority of the fuel material was removed and shipped off-site to Idaho
- Some material remained in the reactor coolant system and associated piping (i.e., fuel bearing materials)
- The unit has remained in this condition, as approved in 1988, until the site was ready for full decommissioning

General Overview (cont'd)

- NAC obtained the work scope to place all fuel from TMI Unit 1 into dry cask storage
- This project is currently on schedule to finish sometime later this year
- In order to fully decommission the site, TMI-2 needs to be cleared of the fuel bearing material left after the efforts in the 1980's to remove all readily accessible fuel material
- NAC has been awarded this work and needs NRC approval on several design changes to the MAGNASTOR system that will accommodate the dry storage of the remaining fuel bearing material

General Overview (cont'd)

- The modified MAGNASTOR design will include changes to the canister internals
- This will support the loading of the fuel bearing material from TMI-2
- The closed portion of this meeting will include the details on how this material will be loaded and stored, including an overview of the supporting analysis

Questions?

Next is the publicly closed portion of the meeting.