



MAGNASTOR A6/A7 Pre-Application Meeting

Date: July 9, 2015

Docket No.: 72-1031



Agenda

- Open portion
 - Amendment 6 general overview of passive transfer cask (PMTTC)
 - Proposed Amendment 7 general overview of increasing canister thermal limit beyond 35.5kW, laboratory testing validating acceptability of modeling techniques at high heat loads, and modification of current Tech Spec to allow crediting this test for satisfying the required mass flow rate testing for the first system loaded at or above 30kW

Agenda (cont'd)

- Closed portion
 - Amendment 6 detailed overview and analysis results for the PMTC
 - Proposed Amendment 7 thermal modeling details and laboratory testing approaches

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OPEN PORTION

Amendment 6

- Scope of amendment is to include a new transfer cask design (i.e., PMTC)
- Design is passively cooled transfer cask for heat loads less than or equal to 30kW
- This design results in unlimited transfer times
- The PMTC requires revising LCO 3.1.1 to include the new time limitations

LCO 3.1.1 Changes

- A new Table 1.E is being added to include the maximum vacuum time limit, minimum helium backfill time, and the maximum TSC transfer time for heat loads less than or equal to 30kW

Heat Load (kW)	Maximum Vacuum Time Limit (hours)	Minimum Helium Backfill Time (hours)	Maximum TSC Transfer Time (hours)
≤ 20	No limit	0	600
≤ 25	54	0	600
≤ 30	32	0	600

Proposed Amendment 7

- Primary purpose of amendment is to increase the heat load limit on the system beyond 35.5kW
- Original MAGNASTOR application went well beyond this; however, acceptance of the modeling techniques was a challenge; thus, the approved heat load limit was less than what was requested
- In order to increase the heat limit back up, NAC is proposing to perform laboratory testing to demonstrate the acceptability of the modeling techniques for these higher heat loads
- NAC is also requesting crediting these tests as a means of satisfying the current Tech Spec mass flow rate testing requirement for the first system loaded at or above 30kW