



PennState

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Docket 50-005
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Response to NRC Generic Letter 2016-01: Monitoring of Neutron-Absorbing Materials in Spent Fuel Pools

Dear Sir/Madame:

Pursuant to NRC Generic Letter 2016-01, please find the requested information presented below.

- (1) Are neutron-absorbing materials used in a reactor pool, fuel storage pool, or other wet locations designed for the storage of reactor or spent fuel?

The Penn State Breazeale Reactor does not use neutron absorbing materials in locations designated and designed for storage of reactor or spent fuel [1].

- (2) If neutron-absorbing materials are used, is their used credited in the licensing or design basis (i.e., criticality safety analysis) for the storage of reactor fuel or spent fuel in a reactor pool, fuel storage pool, or other wet locations, as applicable?

N/A. The Penn State Breazeale Reactor does not use neutron absorbing materials in locations designated and designed for storage of reactor or spent fuel [1].

- (3) If neutron-absorbing materials are credited in the facility licensing or design basis for the storage of reactor or spent fuel in a reactor pool, fuel storage pool, or other wet locations, as applicable, then provide a description of, and technical basis for, any surveillance or monitoring programs used to confirm continued acceptable performance of the neutron-absorbing materials over time.

N/A. The Penn State Breazeale Reactor does not use neutron absorbing materials in locations designated and designed for storage of reactor or spent fuel [1].

[1] Safety Analysis Report for Renewal of License R-2 for the Breazeale Nuclear Reactor, Penn State University, December 2005.

If there are any questions regarding the information submitted, please contact Dr. James A. Turso, Assistant Director for Irradiations and Operations, Penn State Radiation Science and Engineering Center.

Respectfully,


Neil A. Sharkey

CC: Xiaosong Yin - NRC
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