

## NRR-DMPSPEm Resource

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**From:** Sebrosky, Joseph  
**Sent:** Monday, February 11, 2019 3:07 PM  
**To:** 'Gropp Jr, Richard W:(GenCo-Nuc)'  
**Subject:** Clarification question associated with staff assessment of fragility portion of Peach Bottom seismic probabilistic risk assessment report dated August 28, 2018

Mr. Gropp,

By letter dated August 28, 2018 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML18240A065), Exelon Generating Company, LLC (the licensee) provided its seismic probabilistic risk assessment (SPRA) report in response to Enclosure 1, item (8) of the March 12, 2012, 10 CFR 50.54(f) letter (ADAMS Accession No. ML12053A340) for Peach Bottom Atomic Power Station, Units 2 and 3 (Peach Bottom). By letter dated July 6, 2017 (ADAMS Accession No. ML17177A446), the NRC issued a generic audit plan and entered into the audit process described in Office Instruction LIC 111, "Regulatory Audits," dated December 29, 2008 (ADAMS Accession No. ML082900195), to assist in the timely and efficient closure of activities associated with the 50.54(f) letter. To support the staff's audit of the August 28, 2018, SPRA report the staff has developed the clarification questions found below. After you have time to review the clarification questions, please let me know when you could support an audit phone call to discuss these questions.

Sincerely,

Joe Sebrosky  
Senior Project Manager  
Division of Licensing Projects  
Office of Nuclear Reactor Regulation  
301-415-1132

Plant: Peach Bottom Units 2 and 3	Submittal ML#: ML18240A065
F&O#: 5-16 SR: SFR-A2 and SPR-C1	Team Lead: Joe Sebrosky Reviewer:
Proposed RAI:  In response to F&O 5-16, a bounding analysis for structural fragility of Conowingo Dam is presented in EXLNPB018-REPT-014, Attachment 5. The report addressed the structural fragility of spillway piers that can lead to failure of the gates. Table 3 in the report shows that the potential failure of Gates and Power House and Intake were screened out, however, rationale for screening of these components were not documented. Spillway gates are typically steel structural system anchored to the spillway piers. The seismic and hydrodynamic loading on the gates during earthquake can cause failure of gate structure or exceed anchorage capacity during the transfer of load to the piers. Failure of gates, as pointed out in the report, can result in uncontrolled release from the reservoir and loss of	

cooling water. Discuss the screening approach used for the gates and power house and intake structure and confirm that the structural fragility of the spillway pier is bounding for the Conowingo Dam.

Rationale/Need for RAI:

Decision:

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**From:** Sebrosky, Joseph

**Created By:** Joseph.Sebrosky@nrc.gov

**Recipients:**  
"Gropp Jr, Richard W:(GenCo-Nuc)" <Richard.Gropp@exeloncorp.com>  
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