

ExelonSM

**PBMR
Fuel Irradiation Program**

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PBMR Fuel Irradiation Program

- Purpose of presentation
 - Define the purpose of the PBMR fuel irradiation program
 - Describe the program plan and schedule
 - Describe the irradiation measurements to be taken
 - Describe the PBMR proposed joint international irradiation program

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Purpose of PBMR Fuel Irradiation Program

- To confirm that the PBMR fuel, manufactured at the Pelindaba plant with modern processes and equipment to German specifications and quality control standards, will perform within the envelope of German measured irradiation data.
- To provide irradiation data for the steady state and transient operating conditions, as closely as possible, to those expected in the Demonstration Plant.

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PBMR Irradiation Program

- Test Program in the RSA Safari Reactor
- Test Program in Russian IVV-2M Reactor

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Fuel Baseline Program

Proprietary information not shown

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Fuel Baseline Program

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Proposed Test Program in the Safari Reactor

- Phase I

Proprietary information not shown

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Proposed Test Program in the Safari Reactor, Cont'd

- Phase II

Proprietary information not shown

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Proposed Test Program in Russian IVV-2M Reactor

- Test Process

Proprietary information not shown

- Coated Fuel Particle Tests

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Proposed Test Program in Russian IVV-2M Reactor, Cont'd

- Fuel Element Tests

Proprietary information not shown,

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Proposed Test Program in Russian IVV-2M Reactor, Cont'd

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