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NRC Plans for Concluding PBMR Pre-Application Review Activities

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NRC Open Items: Technical, Programmatic and Procedural Correspondence and Documents

- Technical white papers
- Licensing basis events and safety grade SSCs
- Part 10 CFR 2.790 Resubmittals
- Legal and financial issues review (Amy Cubbage)

Technical White Paper Reviews

Meeting Date	PBMR Presentation Technical Topic at NRC/Exelon/DOE Meeting	Exelon Technical White Paper	
		Title	Date
Jun 12-13, 2001	Fuel Overview -Design, Manufacturing, QC and Qualification	PBMR Nuclear Fuel	<u>11/16/01</u>
		Fuel Fabrication Quality Control Measures and Performance Monitoring Plans for PBMR Fuel	1/31/02
Jul 17-18, 2001	Design Codes and Standards	Summary of PBMR Design Codes and Standards	10/30/01
		RPV and Connecting Piping	12/17/01
	Fuel Irradiation Program	Pebble Bed Modular Reactor Fuel Qualification Test Program	3/18/02
Aug 15-16, 2001	Analytical Codes and Software Control	PBMR Analytical (Computer) Codes Data Table	10/30/01
	Fuel Design Logic	None	N/A
	Core Design	PBMR Design and Heat Removal Preliminary Description	3/04/02
	Heat Removal		
Oct 25, 2001	High Temperature Materials Graphite	Graphite Presentation to USNRC in Support of PBMR Pre-Application Activities	10/23/01
	Control of Chemical Attack	Control of Chemical Attack in the PBMR	10/23/01
	Systems Design Approach and Status	None	N/A
	High Temperature Materials	None	N/A
Nov 29-30, 2001	Operational Modes and States	PBMR Operational Modes and States	11/27/01
	Testing Requirements for a Combined License	Testing Requirements for Issuance of a Combined License	11/27/01
Mar 28 2002	Pebble Bed Modular Reactor Fuel Qualification Test Program	Pebble Bed Modular Reactor Fuel Qualification Test Program	3/18/02

Technical White Paper Review Closure Plans - RAIs

- Documented for each¹ technical white paper
- Catalogued by applicability: pre-application, NRC infrastructure, or license application
- Three NRC transmittal letters:

May 2002 (Materials; Systems & Analytical Codes)

June 2002 (Fuel Related)

¹ No RAIs planned for "Testing Requirements for Issuance of a Combined License"

Licensing Basis Events and Safety-Grade SSCs

PBMR Licensing Basis Events:

- Internal, at power LBEs submitted January 31, 2002
- RAIs documented; will be transmitted May 2002

Safety Grade SSCs:

- Safety grade SSCs submitted March 15, 2002
- RAIs are not planned

10 CFR 2.790 Reviews of Re-Submitted White Papers

- Exelon's request to withhold from public disclosure selected information in white papers did not meet 10 CFR 2.790 criteria
- White papers (and meeting handouts) were withdrawn, revised and resubmitted:
 - PBMR Nuclear Fuel
 - PBMR Design and Heat Removal
- Staff will review the revised white papers against 10 CFR 2.790 criteria and document outcome in a letter to Exelon

Potential Additional NRC Closeout Action Items

- Fuel cycle, transportation and waste issues
- Additional technical documents and correspondence
Exelon may submit
- SECY paper on PBMR (HTGR) policy-level issues