

# ***Safety and Design Familiarization***

**March 15-16, 2006**



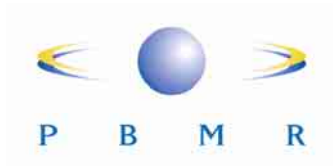
## ***Pre-Application Objectives***

- **Prepare for completing a Design Certification (DC) application for commercial PBMRs as soon as possible to support U.S. utility long range planning evaluations**
- **Establish a clear path forward for PBMR / HTGR licensing in the U.S.**
- **Clarify issues identified in Exelon's pre-application work still relevant to submitting a PBMR DC application**
- **Identify any new issues that require pre-application work or inclusion in the DC application**
- **Identify any further development and testing required for PBMR certification in the U.S.**



## ***Pre-Application Phase 2 Objectives***

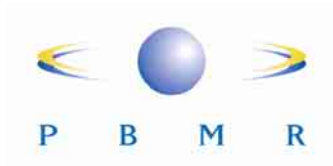
- **Conduct initial familiarization sessions for assigned NRC reviewers on the PBMR design, operations and safety approach.**
  - Session 1 - Plant design principles, layout and systems
  - Session 2 - Safety design and analysis, and plant operations and events
- **Obtain feedback from the NRC through the review of individual white papers addressing each of the focus topics identified during the Phase 1 Planning.**
- **Each white paper will comprise a substantive discussion on a specific topic, including technical, regulatory and policy issues.**
- **Submit a comprehensive version of a format and content guide tailored to the submission of a non-LWR DC application.**



## ***Familiarization Session 2***

**Wednesday, March 15, 2006**

|                   |  |
|-------------------|--|
| <b>9:00 a.m.</b>  | <b>Introductory Remarks</b>                                      |
| <b>9:15 a.m.</b>  | <b>Plant Operations and Maintenance Overview</b>                 |
| <b>10:30 a.m.</b> | <b>Break</b>   |
| <b>10:45 a.m.</b> | <b>Fuel</b>  |
| <b>12:15 p.m.</b> | <b>Lunch</b>   |
| <b>1:15 p.m.</b>  | <b>Safety Design Approach</b>                                    |
| <b>2:15 p.m.</b>  | <b>Definition of Event Sequences</b>                             |
| <b>2:45 p.m.</b>  | <b>Break</b>   |
| <b>3:00 p.m.</b>  | <b>Response to Events - PCU Transients</b>                       |
| <b>3:45 p.m.</b>  | <b>Response to Events - Reactivity Transients</b>                |
| <b>4:00 p.m.</b>  | <b>Proprietary Discussions , if necessary (closed to public)</b> |
|                   | <b>Open Discussion</b>   |



## ***Familiarization Session 2***

**Thursday, March 16, 2006**

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|-------------------|--|
| <b>9:00 a.m.</b>  | <b>Response to Events - Precooler and Intercooler Leaks/Breaks</b> |
| <b>10:30 a.m.</b> | <b>Break</b>   |
| <b>10:45 a.m.</b> | <b>Response to Events-HPB Leaks and Breaks</b>                     |
| <b>11:30 p.m.</b> | <b>Wrap-up Discussions</b>   |
| <b>11:45 p.m.</b> | <b>Public Comments</b>   |