

PBMR - Proposed Preapplication Interactions and Inter-Offices Coordination

- Exelon request (based upon 1/31/01 presentation):
 - in 6 months identify issues
 - in 15 months resolve issues
 - see attached V.G. Presented by Exelon
- Proposed NRC response:
 - Initiate preapplication interactions to:
 - ▶ understand the design and its design basis
 - ▶ identify applicable requirements and areas needing new requirements
 - ▶ identify safety issues
 - ▶ identify infrastructure and research needs ?
 - ▶ propose resolution to safety issues
 - ▶ identify NRC resource needs to review actual application
 - draft plan and schedule developed
 - end product - SECY paper with proposed approach, requirements, policy issues, resources needs for PBMR licensing review

● Key Process Issues:

- Licensing approach for new design
- NRC resources and fees
- RES/NRR/NMSS/OGC coordination
- schedule

with prototype testing

● Likely Key Technical Issues:

- design basis
- fuel quality and integrity at high temp
- containment vs confinement
- source term
- EPZ size

what accidents?

this important??

Not an issue. Most with prototype - coming on line!

Scope

use of prototype testing

● Interoffice Coordination During Preapplication Phase:

- RES Role (overall lead for project)
 - organize and document meetings
 - ACRS presentations
 - draft SECY papers
 - preliminary identification of issues, research needs, applicable requirements, etc.

*use of high temp. materials - RV
control room staffing
lack of licensing + operating experience Q/S*

- NRR Role (overall lead for process issues related to the actual application)
 - participate with RES on team preparing papers, conducting meetings, giving presentations, identifying technical issues
 - concur on all papers to EDO or Commission *or ACES*
- NMSS Role - overall lead for waste issues
- Project Implementation - team effort involving identified staff in RES/NRR/NMSS/OGC

- Points of Contact:

▶ RES - Management	T. King
- PM	Stu Rubin
▶ NRR - Management	?
- PM	<i>Jeffery</i> J. Wilson
▶ NMSS - Management	?
▶ OGC	C. Marco

- Resources:

- RES 2 FTE FY2001
 2 FTE FY2002
- NRR 1 FTE FY2001
 1 FTE FY2002
- NMSS 0.1 FTE
- Fees - DOE may pay for NRC preapplication activities
 - otherwise fee recoverable

- Schedule (see attached sheet)

Near Term Goals *for NRC*

- Conceptual NRC Fees, Staffing, and Schedule Estimate by March 2001
- Preliminary HTGR Regulatory Framework by May 2001
- Identification of Necessary HTGR Policy / Regulation Changes and Schedule by September 2001
- By September 2001:
 - Reach Agreement on the PBMR Licensing Process
 - NRC PBMR Project Schedule and Budget Estimate
 - Identify PBMR-Applicable Regulations and any Additional Specific Requirements
- Establish HTGR Regulatory Framework/Policy by July 2002
- Others Identified Today

Preliminary Schedule for PBMR Preparatory Activities (in months)

