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**From:** Stuart Rubin RES  
**To:** RES Jack Rosenthal; Jennifer Uhle  
**Date:** Wed, Aug 22, 2001 4:36 PM  
**Subject:** PBMR Analytical Codes Preapplication Review

On August 16, 2001 Exelon gave a presentation (see attached file) on the analytical codes that will be used for the design and safety analysis of the PBMR.

Exelon's objectives in this presentation was for: (1) NRC to identify additional information that should be submitted during the pre-application phase to support NRC's preparations for a COL review and (2) NRC to feedback to Exelon on any known weaknesses and concerns about the analytical codes that should be addressed in the application.

Don Carlson and Chester Gingrich have been identified as the RES lead reviewers for the PBMR codes and methods reviews. However, the scope of the codes and methods covered in the meeting included: engineering analysis, reactor analysis, radiation analysis, fuel performance analysis and risk and consequence analysis. Accordingly, additional RES staff from other divisions may need to participate in the review (e.g., DET staff for pebble flow calculations, DRAA for risk analysis). I would like your views on what additional expertise outside your branch may be needed to support Exelon's objectives.

Also within the scope of your areas of review expertise I would like to understand your plans and schedule for responding to the Exelon request.

(I believe that they would like NRC to identify specific issues that would need to be addressed in the topical report submitted for each code as well as the specific areas of concern which we can already identify for these codes.

Stu

**CC:** Anthony Uises; Chester Gingrich; Donald Carlson; Frank Akstulewicz; John Flack; Michael Mayfield; Ralph Caruso; Scott Newberry; Thomas King; Undine Shoop; Yuri Orechwa

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