

DE/APP-B/#14

From: Kamal Manoly *MR*
To: *MR* Amy Cabbage; Bill Bateman; Charles Hammer; David Jeng; David Terao; Edmund Sullivan; Frank Grubelich; Gene Imbro; Goutam Bagchi; John Fair; Mark Hartzman; Thomas Cheng
Date: 2/13/02 6:58PM
Subject: PBMR REVIEW ASSIGNMENTS

Attached is an updated revision to the PBMR review assignments transmitted to you last week. It is a minor change involving the relocation of Code Cases N-201 & N-499-1 applicability review from item No. 3 to item No. 10.

Kamal

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**PBMR Technical Review Assignments
Division of Engineering**

| Topic | Responsibility |
|---|---|
| Material Properties of Metallic Materials of Construction at High Temperature Evaluation of high temperature properties of metallic materials | EMCB |
| Material Properties of Graphite Components Evaluation of high-temperature stress-strain-creep formulations for use in stress analysis programs | EMCB |
| Design of Reactor Pressure Vessel, Metallic Core Barrel and Support Structures Structural and seismic analysis. Safety evaluation based on ASME Section III, NB and NG | J. Fair: reactor pressure vessel F. Grubelich: core barrel |
| Design of Non-Metallic High-Temperature Reactor Internals Structures Structural evaluation and seismic analysis of internal carbon and graphite structures (top, side, and bottom reflectors and core support), and fuel rods | M. Hartzman |
| Civil, Structural and Seismic Analysis of Containment Building Structural evaluation and seismic analysis, based on ACI 349-97, ANSI/AISC N690-1994 and Draft Reg. Guide DG-1098 | T. Cheng: Seismic Analysis D. Jeng: Structural Evaluation |
| Design of Piping and Pressure Vessels Safety evaluation per ASME Section III, NB and NC. Evaluation of pipe break criteria | J. Fair |
| Stress Analysis Computer Codes Evaluation of high-temperature capabilities of computer codes used for stress analysis of graphite and carbon components | M. Hartzman |
| Control of Chemical Attack Evaluation of graphite and metal degradation in the high temperature reactor environment | EMCB |
| System Safety Classification Quality group safety classification | G. Hammer |
| Design Code Applicability Review and Evaluation of proposed design Codes, Standards (NH and Code Cases N-201 and N-499-1, or other Codes and Standards) and design requirements for use with graphite components or metallic components in a high temperature regime, | K. Chang |