

February 12, 2010

MEMORANDUM TO: Charles E. Ader, Director
Division of Safety Systems and Risk Assessment
Office of New Reactors

FROM: Jennifer L. Uhle, Director */RA/*
Division of Systems Analysis
Office of Nuclear Regulatory Research

SUBJECT: TRANSMITTAL OF FINAL REPORTS ON SEVERE ACCIDENT
ANALYSES FOR U.S. EPR™

This memorandum transmits two reports concerning the behavior of the U.S. EPR™ design under severe accident conditions. The reports are entitled, "Analysis of Selected Severe Accident Scenarios for U.S. EPR™," dated January 2010 (ML100141501); and "Comparison of MELCOR and MAAP Predictions of Selected Severe Accident Scenarios in the U.S. EPR™," dated September 2009 (ML100141579). This work was performed by Energy Research Inc. (ERI) under the direction of the Office of Nuclear Regulatory Research.

These reports are intended to provide the technical bases for parts of the Safety Evaluation Report (SER) for the U.S. EPR™ that is currently being prepared by the Office of New Reactors (NRO). As they contain proprietary information, they have been categorized in Agencywide Documents Access and Management System as sensitive proprietary documents and are marked accordingly.

A CD containing electronic files of these reports was provided to Dr. Ed Fuller of your staff on January 14, 2010.

We will continue to support NRO in its efforts to complete the SER for the U.S. EPR™ on an as needed basis. Therefore, feel free to contact my staff if you need additional analyses in support of your review activities.

CONTACT: Imtiaz K. Madni, RES/DSA
301-251-7493

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