

May 26, 2011

Mr. Jack A. Bailey, Vice President  
Nuclear Generation Development  
Nuclear Generation Development and Construction  
Tennessee Valley Authority  
1101 Market Street, LP 5A  
Chattanooga, TN 37402-2801

SUBJECT: RESPONSE TO U.S. NUCLEAR REGULATORY COMMISSION'S  
REGULATORY ISSUE SUMMARY 2011-02, "LICENSING SUBMITTAL  
INFORMATION AND DESIGN DEVELOPMENT ACTIVITIES FOR SMALL  
MODULAR REACTOR DESIGNS"

Dear Mr. Bailey:

Thank you for your March 23, 2011, letter responding to the U.S. Nuclear Regulatory Commission (NRC) Regulatory Issue Summary 2011-02, "Licensing Submittal Information and Design Development Activities for Small Modular Reactor Designs," dated February 2, 2011 (Agencywide Documents Access and Management System Accession Numbers ML110840713 and ML103260128, respectively). The staff will use this information during its scheduling of resources to support the pre-application and application review activities for the construction permit at the Clinch River site in Roane County, Tennessee, where Tennessee Valley Authority (TVA) plans to submit an application for up to six mPower™ reactor modules.

The NRC staff plans to continue to interact with small modular reactor (SMR) designers, and other interested stakeholders, over the next several years to identify and develop resolutions to policy, licensing, and key technical issues. Although the staff discusses a number of potential policy issues concerning many different types of SMR technologies in SECY-10-0034, "Potential Policy, Licensing, and Key Technical Issues for Small Modular Nuclear Reactor Designs," dated March 28, 2010, it is currently directing its focus on issues of importance to integral pressurized water reactors, such as the mPower design. For fiscal years 2011 through 2012, the staff will, because of resource constraints, limit interactions to focus on infrastructure development activities such as discussions of TVA's regulatory framework document, and the NRC staff's review standard for construction permit applications. Should you submit a construction permit application, as planned, during this time; the staff will conduct an acceptance review of the application when it is received. The construction permit review will commence once resources are available.

J. Bailey

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If you have any questions regarding this matter, please contact Ms. Joelle Starefos at (301) 415-6091, email [Joelle.Starefos@nrc.gov](mailto:Joelle.Starefos@nrc.gov).

Sincerely,

*/RA/*

Michael E. Mayfield, Director  
Advanced Reactor Program  
Office of New Reactors

Project No.: PROJ0785

cc: DC B&W mPower Mailing List

J. Bailey

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If you have any questions regarding this matter, please contact Ms. Joelle Starefos at (301) 415-6091, email [Joelle.Starefos@nrc.gov](mailto:Joelle.Starefos@nrc.gov).

Sincerely,

*/RA/*

Michael E. Mayfield, Director  
Advanced Reactor Program  
Office of New Reactors

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**NRO-002**

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