

August 6, 2004

MEMORANDUM TO: James W. Clifford, Chief, Section 2
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Scott P. Wall, Project Manager, Section 2 /RA/
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: SEABROOK STATION, DRAFT REQUEST FOR ADDITIONAL
INFORMATION (TAC NO. MC1097)

The attached draft request for information (RAI) was transmitted on August 6, 2004, to Mr. Michael O'Keefe of FPL Energy Seabrook, LLC (FPLES or the licensee). This draft RAI was transmitted to facilitate the technical review being conducted by NRR and to support a conference call with the licensee to discuss the RAI.

This RAI is related to the licensee's amendment request for Seabrook Station (Seabrook) dated October 6, 2003. The proposed amendment would revise Seabrook's Technical Specifications for full implementation of an alternate source term. This memorandum and the attachment do not convey or represent an NRC staff position regarding the licensee's request.

Docket No. 50-443

Attachment: RAI

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REQUEST FOR ADDITIONAL INFORMATION
RELATED TO ALTERNATE SOURCE TERM AMENDMENT REQUEST

SEABROOK STATION

DOCKET NO. 50-443

TAC NO. MC1097

By letter dated October 6, 2003, FPL Energy Seabrook, LLC (FPLES or the licensee) submitted an amendment request for Seabrook. The proposed amendment would revise Seabrook's Technical Specifications for full implementation of an alternate source term (AST).

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the information the licensee provided that supports the proposed amendment and requests the following additional information to clarify the submittal.

1. Regulatory Guide 1.183, "Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors," provides assumptions acceptable to the NRC staff for evaluating the radiological consequences of design basis accidents at pressurized-water reactors and states the following:

"The density used in converting volumetric leak rates (e.g., gpm) to mass leak rates (e.g., lbm/hr) should be consistent with the basis of surveillance tests used to show compliance with leak rate technical specifications. These tests are typically based on cool liquid. Facility instrumentation used to determine leakage is typically located on lines containing cool liquids. In most cases, the density should be assumed to be 1.0 gm/cc (62.4 lbm/ft³)."

Provide the density values used for the event analyses discussed in Section 2, "Radiological Consequences - Event Analyses," of Enclosure 2 of the October 6, 2003, submittal. Explain the basis for these values (i.e. based on cool versus hot liquid).