From: Kalyanam, Kaly
Sent: Wednesday, April 14, 2010 9:48 AM
To: wsteelm@entergy.com; mmason@entergy.com
Cc: RMURILL@entergy.com
Subject: RAI on Wsaterford LAR dated February 22, 2010 (TAC No. ME3421)

Billy/Bob,

By letter dated February 22, 2010, Entergy Operations, Inc. (Entergy) made application to amend the Technical Specifications (TS) of the Waterford Steam Electric Station, Unit 3 (Waterford 3).

The proposed amendment adds valve SI-4052A (Reactor Coolant Loop 2, Shutdown Cooling Suction, Inside Containment Bypass Isolation) and valve SI-4052B ((Reactor Coolant Loop 1, Shutdown Cooling Suction, Inside Containment Bypass Isolation) to Technical Specification Table 3.4-1. The purpose of this line is to equalize the shutdown cooling system pressure down stream of valve SI-405A (Reactor Coolant Loop 2, Shutdown Cooling Suction Inside Containment Isolation) and valve SI-405B ((Reactor Coolant Loop 1, Shutdown Cooling Suction Inside Containment Isolation).

The NRC Staff has reviewed the amendment request and determined that we require additional information to complete our review. A request for additional information appears below.

The staff requests you to provide a response to the RAI within 30 days from the date of this email. If this is not feasible, please let me know,in advance, when the response will be sent.

Thanks

Kaly

REQUEST FOR ADDITIONAL INFORMATION

ENTERGY OPERATIONS, INC.

WATERFORD STEAM ELECTRIC STATION UNIT 3

DOCKET NO. 50-382

The proposed change adds solenoid valves SI-4052A and SI-4052B inside the containment. Please provide the following information to verify the electrical design details and environmental qualification requirements.

1. Name plate ratings and procurement details of the solenoid valves.
2. Electrical one line and applicable schematic drawings showing the power and control circuits for valves SI-4052A and SI-4052B.
3. Provide a summary of the voltage drop calculation including circuit lengths and the cable design details. Also, explain how the cables are routed from the distribution panels to the valves and the criteria used to meet electrical separation, independence, and redundancy requirements.
4. Provide a summary of the loading calculations that indicates battery and power distribution panels have acceptable margin available for this modification.
5. Provide a summary of the calculations that indicates Static Uninterruptable Power Supplies 3A and 3B and power distribution panels have acceptable margin available for this modification.
6. Describe the environmental parameters for the valves and cables including their physical locations. Explain how these components are qualified to meet the requirements of 10 CFR 50.49 for the environmental conditions they are expected to be exposed to. Also, provide a summary of the environmental qualification reports including the accident profiles.
7. Provide a summary of the protective device coordination of the circuits including the respective containment penetrations for valves SI-4052A and SI-4052B.

E-mail Properties

Mail Envelope Properties ()

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From: Kalyanam, Kaly

Created By: Kaly.Kalyanam@nrc.gov

Recipients:
wsteelm@entergy.com (wsteelm@entergy.com)
Tracking Status: None
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MESSAGE	14188	4/14/2010

Options

Expiration Date:
Priority: olImportanceNormal
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Return Notification: False

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