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**Kimberly S. Cook**  
Director, Nuclear Safety Assurance  
Nuclear Safety Assurance  
Waterford 3

W3F1-2008-0005

January 21, 2008

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

**SUBJECT:** Request For Additional Information Related for  
Emergency Cooling System Performance Analysis  
Waterford Steam Electric Station, Unit 3  
Docket No. 50-382

**REFERENCES:**

1. Entergy letter to the NRC, "Emergency Core Cooling System Performance Analysis" dated August 9, 2007 (W3F1-2007-0038)
2. Entergy letter to the NRC, "Supplement to Amendment Request NPF-38-249, Extended Power Uprate" dated July 28, 2004 (W3F1-2004-0061)
3. NRC Request for Additional Information Related to Emergency Core Cooling System Performance Analysis, dated December 14, 2007

Dear Sir or Madam:

By letter (Reference 1), Entergy Operations, Inc. (Entergy) requested an NRC review of the Waterford Steam Electric Station, Unit 3 (Waterford 3) revised Emergency Core Cooling System (ECCS) Performance Analysis that supports the implementation of CE 16x16 Next Generation Fuel (NGF) described in WCAP-16500. A license amendment request was also submitted to address the Waterford 3 Technical Specification changes for NGF.

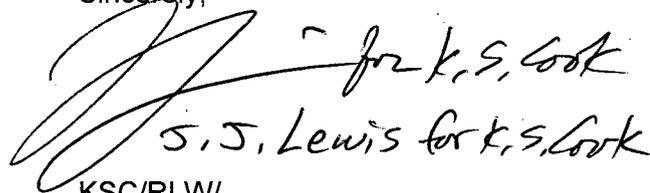
By email (Reference 3), the Nuclear Regulatory Commission (NRC) staff Requested Additional Information (RAI) related to providing a statement that Entergy and its Loss of Coolant Accident (LOCA) analyses vendor have ongoing processes that assure Waterford 3 LOCA analyses input values bound as-operated Waterford 3 plant values for those parameters. Our response to the RAI is contained in Attachment 1.

A002

NR

This letter contains no commitments. If you have any questions or require additional information, please contact Ron Williams at 504-739-6255.

Sincerely,

 for K. S. Cook  
S. J. Lewis for K. S. Cook

KSC/RLW/

Attachment: Response to Request for Additional Information for Emergency Core Cooling System Performance Analysis

cc: Mr. Elmo E. Collins, Jr.  
Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region IV  
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Arlington, TX 76011-8064

NRC Senior Resident Inspector  
Waterford Steam Electric Station Unit 3  
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U. S. Nuclear Regulatory Commission  
Attn: Mr. N. Kalyanam  
Mail Stop O-07D1  
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Wise, Carter, Child & Caraway  
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Louisiana Department of Environmental Quality  
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American Nuclear Insurers  
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Town Center Suite 300S  
29<sup>th</sup> S. Main Street  
West Hartford, CT 06107-2445

**Attachment 1**

**W3F1-2008-0005**

**Response to Request for Additional Information  
for Emergency Core Cooling System Performance Analysis**

**Response to Request for Additional Information  
for Emergency Core Cooling System Performance Analysis**

*Reference 1 - Entergy letter to the NRC "Emergency Core Cooling System Performance Analysis" dated August 9, 2007 (W3F1-2007-0038)*

*Reference 2 - Entergy letter to the NRC "Supplement to Amendment Request NPF-38-249, Extended Power Uprate" dated July 28, 2004 (W3F1-2004-0061)*

**RAI 1** – *Please provide a statement that: Entergy and its SBLOCA and LBLOCA analyses vendor have ongoing processes that assure that the input values of Waterford Unit 3 LOCA analyses conservatively bound the values of those parameters for the as operated Waterford Unit 3 plant.*

**Entergy Response:**

As previously stated in correspondence with the NRC regarding Waterford 3 Extended Power Uprate (Reference 2-response to question #5), Waterford 3 and its vendor, Westinghouse Electric Company LLC, continue to have ongoing processes, which assure that LOCA analysis input values bound the as-operated plant values for those parameters.