



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 7, 2010

LICENSEE: ENTERGY OPERATIONS, INC.

FACILITY: WATERFORD STEAM ELECTRIC STATION, UNIT 3

SUBJECT: SUMMARY OF MARCH 8, 2010, FOLLOW-UP CONFERENCE CALL WITH ENTERGY OPERATIONS, INC. ON DRAFT RESPONSE TO THE REQUEST FOR ADDITIONAL INFORMATION FOR GENERIC LETTER 2004-02, "POTENTIAL IMPACT OF DEBRIS BLOCKAGE ON EMERGENCY RECIRCULATION DURING DESIGN BASIS ACCIDENTS AT PRESSURIZED-WATER REACTORS" (TAC NO. MC4729)

On March 8, 2010, a Category 1 Public Meeting via conference call was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of Entergy Operations, Inc. (Entergy, the licensee). This was a follow-up call to the conference call on October 15, 2009, to discuss the open items for Waterford Steam Electric Station, Unit 3 (Waterford 3), from the request for additional information (RAI) on NRC Generic Letter (GL) 2004-02, "Potential Impact of Debris Blockage on Emergency Recirculation during Design Basis Accidents at Pressurized-Water Reactors." The licensee submitted a document entitled, "Waterford 3 Generic Letter 2004-02 Response to RAIs, March 8, 2010" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML100690372), which contained the RAIs and draft responses.

The March 8, 2010, Category 1 Public Meeting via conference call was noticed through Meeting Notice, ADAMS Accession No. ML100540083.

It was also decided that Entergy will give the complete response (to all 44 questions) and provide a detailed schedule for the response by March 15, 2010. The licensee committed to providing the complete response by April 15, 2010.

Members of the public were not in attendance. A list of participants is enclosed in Enclosure 1. Enclosure 2 covers the status of the responses to the 44 questions in the licensee presentation.

Please direct any inquiries to me at 301-415-1480 or kaly.kalyanam@nrc.gov.

A handwritten signature in black ink, appearing to read "Kaly Kalyanam", with a horizontal line under the last name.

N. Kaly Kalyanam, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-382

Enclosures:

1. List of Participants
2. Status of Responses

cc w/encls: Distribution via Listserv

LIST OF PARTICIPANTS

MARCH 8, 2010, PUBLIC MEETING VIA CONFERENCE CALL WITH

ENERGY OPERATIONS, INC.

WATERFORD STEAM ELECTRIC STATION, UNIT 3

DOCKET NO. 50-382

Entergy Operations, Inc.

Robert Murillo
Brian Lanka
Greg Ferguson
Nick Petit
Mike Mason

Alion

Megan Stachowiak
Jim Furman
Gil Zigler

Nuclear Regulatory Commission

Michael Scott, NRR/DSS/SSIB
Steven Smith, NRR/DSS/SSIB
Roberto Torres, NRR/DSS/SSIB
Paul Klein, NRR/DCI/CSGB
Matt Yoder, NRR/DCI/CSGB
Emma Wong, NRR/DCI/CSGB
N. Kalyanam, NRR/DORL/LPL4

STATUS OF RESPONSES TO REQUEST FOR ADDITIONAL INFORMATION

ENTERGY OPERATIONS, INC.

WATERFORD STEAM ELECTRIC STATION, UNIT 3

DOCKET NO. 50-382

RAI Question No. (*)	Comment
1 thru 10	Licensee stated it will use 17D for Nukon. This response is acceptable to the NRC staff.
11(**)	Staff suggested that the licensee reach a decision for the path forward and include it in the RAI response.
12 and 13	The responses provided in the previous discussions on October 15, 2009, appear acceptable to the NRC staff, subject to review of the draft RAI response.
14	The NRC staff does not need to review the CFD plots, since licensee does not plan to credit debris settling.
15 thru 17	The responses provided in the previous discussions on October 15, 2009, appear acceptable to the NRC staff, subject to review of the draft RAI response.
18(**)	The licensee to re-evaluate whether settling will be credited for downstream effects.
19	The responses provided in the previous discussions on October 15, 2009, appear acceptable to the NRC staff, subject to review of the draft RAI response.
20	While the draft response appears acceptable and it is not necessary to credit the holdup (i.e., assume a 100 percent transport), the licensee response should clearly state that methodology used to determine this percentage of debris lifting over the plenum applies to one break (Break S7).
21	The responses provided in the previous discussions on October 15, 2009, appear acceptable to the NRC staff, subject to review of the draft RAI response.

(*) For the description of the Request for Additional Information (RAI) questions, please refer to the presentation entitled, "Waterford 3 Generic Letter 2004-02 Response to RAIs, March 8, 2010" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML100690372).

(**) Represents the items considered unresolved. These items will likely be the focus for a future discussion, unless the RAI responses contain details not discussed or unexpected information.

RAI Question No. (*)	Comment
22(**)	The licensee is finalizing the assumptions and will commit to procedural items similar to the Dominion Energy, Millstone response to deal with low pressure safety injection pump to stop. The licensee will also include this scenario in the testing. The NRC staff also stated that it would like to see a draft response on this item, since the licensee's decision will affect the transport evaluation.
23	The licensee can provide a high-level description of the test facility and state if it is similar to that observed by the staff.
24 and 25	The responses provided in the previous discussions on October 15, 2009, appear acceptable to the NRC staff, subject to review of the draft RAI response.
26	The licensee should state that it is using the same procedure used at other plants and found acceptable by the NRC staff.
27 thru 34	The responses provided in the previous discussions on October 15, 2009, appear acceptable to the NRC staff, subject to review of the draft RAI response.
35	The response appears acceptable to the NRC staff, subject to review of the draft RAI response.
36(**)	Licensee stated that there is no net holdup in the refueling canal, since the 6 inch straight pipe drains with the other obstacles in the region prevent clogging of the drains. While the NRC staff considered the response as probably acceptable, the formal RAI response should provide a clear and cogent argument.
37	The responses provided in the previous discussions on October 15, 2009, appear acceptable to the NRC staff, subject to review of the draft RAI response. Regarding the inorganic zinc, the licensee stated that the IOZ in the zone of influence is top-coated.
38	This item (in-vessel downstream effects) is to be resolved generically.
39 thru 44	Licensee stated it will retest with WCAP precipitate Base model. Any contingent refinement will be discussed in detail in the RAI response. The licensee should include the equilibrium pH range and aluminum concentration. NRC staff will provide a sample of a successful licensee submittal.

(*) For the description of the Request for Additional Information (RAI) questions, please refer to the presentation entitled, "Waterford 3 Generic Letter 2004-02 Response to RAIs, March 8, 2010" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML100690372).

(**) Represents the items considered unresolved. These items will likely be the focus for a future discussion, unless the RAI responses contain details not discussed or unexpected information.

Please direct any inquiries to me at 301-415-1480 or kaly.kalyanam@nrc.gov.

/RA/

N. Kaly Kalyanam, Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-382

Enclosures:

1. List of Participants
2. Status of Responses

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PKlein, NRR/DCI/CSGB

MYoder, NRR/DCI/CSGB

ADAMS Accession Nos. Meeting Notice ML100540083, Meeting Summary ML100700301, Licensee Slides ML100690372

OFFICE	DORL/LPL4/PM	DORL/LPL4/LA	NRR/DSS/SSIB	DORL/LPL4/BC	DORL/LPL4/PM
NAME	NKalyanam	JBurkhardt	MScott	MMarkley BSingal for	NKalyanam
DATE	3/31/10	3/15/10	3/15/10	4/6/10	4/7/10

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