



Phyllis

From: Clark, Phyllis
Sent: Thursday, December 08, 2016 9:46 AM
To: 'mchisum@entergy.com'
Cc: 'jjarrel@entergy.com'; 'dfrey@entergy.com'; 'lmurr91@entergy.com'; 'GYOUNG4@entergy.com'; 'Dlach@entergy.com'; 'ataylo1@entergy.com'; 'aharris@entergy.com'; 'Milster, Leia Elizabeth'; Ramirez, Frances; Speer, Chris; Wittick, Brian; Morey, Dennis; RidsNrrDlr Resource; RidsNrrDlrRpb1 Resource; RidsNrrDlrRerb Resource; RidsNrrDlrRarb Resource; RidsNrrDlrRasb Resource; RidsNrrDlrRsrg Resource; RidsNrrPMWaterford Resource; RidsRgn4MailCenter Resource; Folk, Kevin; Keegan, Elaine; Buford, Angela; Prinaris, Andrew; Wong, Albert; Huynh, Alan; Sweat, Tarico; Medoff, James; Gavula, James; Lopez, Juan; Cuadrado de Jesus, Samuel; Min, Seung; Obadina, Sarah; Sadollah, Mohammad; Rogers, Billy; Brittner, Donald; Fu, Bart; Allik, Brian; Lehman, Bryce; Gardner, William; Thomas, George; Mink, Aaron; Doult, Clifford; Holston, William; Yoo, Mark; Pulvirenti, April; McIntyre, David; Burnell, Scott; Moreno, Angel; Kennedy, Kriss; Scott, Catherine; Yoder, Matthew; James, Lois; Chazell, Russell
Subject: RE: WATERFORD STEAM ELECTRIC STATION, UNIT 3, LICENSE RENEWAL APPLICATION – RAI SET 10 (CAC NO. MF7492)
Attachments: Waterford 3 LRA Final RAI Set 10.docx

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

Mr. Michael R. Chisum
Site Vice President
Entergy Operations, Inc.

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE WATERFORD STEAM ELECTRIC STATION, UNIT 3, LICENSE RENEWAL APPLICATION – SET 10 (CAC NO. MF7492)

Dear Mr. Chisum:

By letter dated March 23, 2016, Entergy Operations, Inc. submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54, to renew the operating license NPF-38 for Waterford Steam Electric Station, Unit 3. The staff of the U.S. Nuclear Regulatory Commission (NRC or the staff) is reviewing the information contained in the license renewal application and has identified areas where additional information is needed to complete the review.

The enclosed requests for additional information were discussed with Mr. Alan Harris and a mutually agreeable date for the response is within 45 days from the date of this letter. If you have any questions, please contact me at 301-415-6447 or by e-mail at Phyllis.Clark@nrc.gov.

Sincerely,

Phyllis Clark

Phyllis Clark, Project Manager
Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-382

Enclosure:
As stated

cc: Listserv

ADAMS Accession No.: **ML16343A072** *via email

OFFICE	PM:RPB1:DLR	BC:RPRB:DLR	Acting BC:RPB1:DLR	PM:RPB1:DLR
NAME	PClark	DMorey*	LJames*	PClark
DATE	12/7/2016	12/1/2016	12/8/2016	12/8/2016

**WATERFORD STEAM ELECTRIC STATION, UNIT 3
LICENSE RENEWAL APPLICATION
REQUESTS FOR ADDITIONAL INFORMATION – SET 10
(CAC NO. MF7492)**

RAI B.1.34-1a

Background:

By letter dated October 12, 2016, the staff issued RAI B.1.34-1 regarding the absence of a staff-approved withdrawal schedule for Capsule 277°. In its response dated November 10, 2016, the applicant stated that, for the capsule located at 277°, WCAP-18002-NP suggested a removal time of the reactor vessel refueling outage nearest to 48 EFPY. The applicant also stated that the estimated fluence for the capsule at 48 EFPY is 4.51×10^{19} n/cm² providing a fluence greater than the reactor vessel inner radius fluence calculated for 55 EFPY of 4.32×10^{19} n/cm².

In addition, the applicant stated that, in accordance with 10 CFR 50, Appendix H, Waterford Unit 3 will obtain NRC approval of the revised withdrawal schedule before its implementation. The applicant indicated that this action is consistent with GALL Report AMP XI.M31, "Reactor Vessel Surveillance," which indicates that a change to the capsule withdrawal schedule must be submitted to the NRC for approval prior to implementation.

The "detection of aging effects" program element of GALL Report AMP XI.M31 states that the withdrawal schedule shall be submitted as part of a license renewal application for NRC review and approval in accordance with 10 CFR Part 50, Appendix H.

Issue:

The applicant did not submit a withdrawal schedule for Capsule 277° as part of the license renewal application for NRC review and approval in accordance with 10 CFR Part 50, Appendix H. The staff noted that this is inconsistent with GALL Report AMP XI.M31.

Request:

Explain why the program is consistent with GALL Report AMP XI.M31, even though the applicant did not submit a withdrawal schedule for Capsule 277° as part of the license renewal application. Alternatively, submit the withdrawal schedule for Capsule 277° as part of the license renewal application for NRC review and approval in accordance with 10 CFR Part 50, Appendix H.

ENCLOSURE