



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

July 19, 2013

LICENSEE: FirstEnergy Nuclear Operating Company  
FACILITY: Davis-Besse Nuclear Power Station  
SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON APRIL 24, 2013,  
BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND  
FIRSTENERGY NUCLEAR OPERATING COMPANY, CONCERNING  
REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE  
DAVIS-BESSE NUCLEAR POWER STATION LICENSE RENEWAL  
APPLICATION (TAC. NO. ME4640)

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of FirstEnergy Nuclear Operating Company (FENOC or the applicant) held a telephone conference call on April 24, 2013, to discuss and clarify the staff's requests for additional information (RAIs) concerning the Davis-Besse Nuclear Power Station license renewal application.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a summary of the staff discussion with FENOC. A brief description on the status of the items is also included.

FENOC had an opportunity to comment on this summary.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Cuadrado de Jesús".

Samuel Cuadrado de Jesús, Project Manager  
Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-346

Enclosures:

1. List of Participants
2. List of Requests for Additional Information

cc w/encls: Listserv

July 19, 2013

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*/RA/*

Samuel Cuadrado de Jesús, Project Manager  
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OFFICE	LA:DLR/RPB1	PM:RPB1:DLR	BC:RPB1:DLR
NAME	IKing	SCuadrado de Jesús	YDiaz
DATE	07/18/2013	07/18/2013	07/19/2013

OFFICIAL RECORD COPY

Memorandum to file from Samuel Cuadrado de Jesús dated July 19, 2013

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SCuadrado

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EMiller

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DMcIntyre, OPA

TRiley, OCA

BHarris, OGC

SUMMARY OF TELEPHONE CONFERENCE CALL  
DAVIS-BESSE NUCLEAR POWER STATION  
LICENSE RENEWAL APPLICATION

LIST OF PARTICIPANTS  
April 24, 2013

**PARTICIPANTS**

**AFFILIATIONS**

Samuel Cuadrado de Jesús	U.S. Nuclear Regulatory Commission (NRC)
William (Bill) Holston	NRC
Angela Buford	NRC
Cliff Custer	FirstEnergy Nuclear Operating Company (FENOC)
Steven Dort	FENOC
Trent Henline	FENOC
Don Kosloff	FENOC
Jake Hofelich	FENOC
Larry Hinkle	FENOC
Joseph Brunkhorst	FENOC
Thomas Henry	FENOC

SUMMARY OF TELEPHONE CONFERENCE CALL  
DAVIS-BESSE NUCLEAR POWER STATION  
LICENSE RENEWAL APPLICATION

April 24, 2013

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of FirstEnergy Nuclear Operating Company (FENOC or the applicant) held a telephone conference call on April 24, 2013, to discuss and clarify the following requests for additional information (RAIs) concerning the Davis-Besse Nuclear Power Station license renewal application (LRA).

**Response to RAI B.2.4-1b dated March 14, 2013**

**Discussion:** The purpose of the telephone conference call was to continue the discussion from a telephone conference call held on April 11, 2013, regarding FENOC's response to RAI B.2.4-1b related to high-strength structural bolting submitted by letter dated March 14, 2013, specifically to address high strength bolting in the American Society of Mechanical Engineers (ASME) Section XI – IWF Program.

FENOC requested clarification from the staff associated with the resolution to industry comment 906 in NUREG-1950, "Disposition of Public Comments and Technical Bases for Changes in the License Renewal Guidance Documents NUREG-1801 and NUREG-1800," dated April 2011 regarding inspection of A325 and A490 bolting and the susceptibility of that bolting to stress corrosion cracking (SCC) in IWF applications when the same bolting in structural applications managed by the Structures Monitoring Program is not susceptible to SCC.

The staff stated that Electric Power Research Institute (EPRI) document NP-5769, "Degradation and Failure of Bolting in Nuclear Power Plants," documented operating experience showing SCC occurring in high-strength (i.e., measured yield strength greater than 150 ksi) A325 and A490 bolting used for component supports. The staff also stated that this operating experience provided the basis for the changes made to the ASME Section XI, Subsection IWF Program in NUREG-1801, "Generic Aging Lessons Learned (GALL) Report," and this approach is consistent throughout the GALL Report. The staff further stated that the ASME Section XI, Subsection IWF Program recommends volumetric examinations for high-strength A325 and A490 bolting in IWF applications, but these volumetric examinations may be waived with adequate plant-specific justification.

FENOC stated that they have performed an extensive search for high-strength bolts in IWF applications, and provided the following summary of the findings and operating experience:

- identified A325, A490 and A540 bolts greater than 1-inch in IWF applications
- assumed the bolts are greater than 150 ksi since it cannot find all the certified material test reports
- performed over 180 volumetric examinations of A540 bolting on the reactor head closure studs
- performed numerous VT-3 examinations of ASTM A540 reactor head closure stud bolts
- documented extensive operating experience using ASME code visual examination techniques which shows no failures of ASTM A540 bolts greater than 1-inch bolting.

ENCLOSURE 2

The staff stated that it needs to consider whether volumetric examinations of reactor head closure studs can be considered adequate plant-specific operating experience to justify excluding volumetric inspections of high-strength A325 and A490 bolting greater than 1-inch. The staff also stated that VT-3 examinations are not sufficient to detect SCC, which is why the GALL Report recommends volumetric examinations.

The staff stated that it needs to discuss the topic further internally and will reconvene at a later date to discuss the topic further with FENOC.

There was no further discussion, and the call was concluded.

**Action:** The staff will support a follow-up telephone conference call.