



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

February 14, 2013

Mr. Raymond A. Lieb, Vice President
Davis-Besse Nuclear Power Station
FirstEnergy Nuclear Operating Company
5501 North State Route 2
Oak Harbor, OH 43449

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
DAVIS-BESSE NUCLEAR POWER STATION LICENSE RENEWAL
APPLICATION RELATED TO THE BOLTING INTEGRITY PROGRAM (TAC
NO. ME4640)

Dear Mr. Lieb:

By letter dated August 27, 2010, FirstEnergy Nuclear Operating Company submitted an application pursuant to Title 10 of the *Code of Federal Regulations* Part 54 for renewal of Operating License NPF-3 for the Davis-Besse Nuclear Power Station. The staff of the U.S. Nuclear Regulatory Commission (NRC or the staff) is reviewing this application in accordance with the guidance in NUREG-1800, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants." During its review, the staff has identified areas where additional information is needed to complete the review. The staff's requests for additional information are included in the enclosure. Further requests for additional information may be issued in the future.

Items in the enclosure were discussed with Cliff Custer, of your staff, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me by telephone at 301-415-2946 or by e-mail at Samuel.CuadradoDeJesus@nrc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel 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

Enclosure:
As stated

cc w/encl: Listserv

February 14, 2013

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Projects Branch 1
Division of License Renewal
Office of Nuclear Reactor Regulation

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As stated
cc w/encl: Listserv
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See next page

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*concurring via email

OFFICE	LA:DLR/RPB2*	PM:DLR/RPB1	BC:DLR/RPB1	PM:DLR/RPB1
NAME	YEdmonds	SCuadrado	DMorey	SCuadrado
DATE	2/12/13	2/13/13	2/13/13	2/14/13

OFFICIAL RECORD COPY

Letter to Raymond A. Lieb from Samuel Cuadrado De Jesús dated February xx, 2013

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-
- E. Keegan
 - B. Harris (OGC)
 - M. Mahoney

DAVIS-BESSE NUCLEAR POWER STATION
LICENSE RENEWAL APPLICATION
REQUEST FOR ADDITIONAL INFORMATION
RELATED TO THE SHIELD BUILDING MONITORING PROGRAM

RAI B.2.4-1b

Background:

The response to RAI B.2.4-1a stated that visual inspections will detect the presence of a potential corrosive environment by observing for indications of standing water, residue of evaporated water, visible moisture from condensation or any other source, water trails or stains to or from the bolting location, residue on adjacent concrete surfaces suggesting that a water trail might have existed, evidence of corrosion on bolting or adjacent metal support components, corrosion stains on adjacent concrete surfaces, and any other evidence of current or past presence of a moist or wetted environment at or adjacent to a bolting location. The response to RAI B.2.4-1a also stated that if a potentially corrosive environment associated with high-strength structural bolting is detected during visual examinations, formal written engineering evaluation will be performed to determine whether the environment is corrosive. The response to RAI B.2.4-1a further stated that if volumetric examinations are conducted of high-strength structural bolting due to detecting a corrosive environment, the representative sample size will be equal to 20 percent of the population subjected to a corrosive environment, with a maximum of 25 bolts or studs. The response to RAI B.2.4-1a revised LRA Section A.1.39 to include, "[v]isual inspections are supplemented by volumetric examination or by feel (for elastomers), as needed."

Issue:

Based on the staff's review of the list of conditions that would indicate a potentially corrosive environment, only three of the eight were associated with some measure of standing water. Only these three could provide any further evidence to engineering that there is or was a corrosive environment. In the case of standing water, the water could be chemically analyzed for contaminants. It is not clear to the staff what factors engineering will consider in determining whether a potentially corrosive environment is a corrosive environment, particularly when no moisture is present. It is also not clear to the staff how many bolts will be inspected if fewer than five are exposed to a corrosive environment. In regard to LRA Section A.1.39, while it could be inferred that high-strength structural bolts will be volumetrically examined, it is not clearly stated.

Request:

- (a) State the factors engineering will consider in determining whether a potentially corrosive environment is a corrosive environment, particularly when no moisture is present,
- (b) State how many bolts will be volumetrically inspected when fewer than five bolts are found to be exposed to a corrosive environment,

ENCLOSURE

- (c) Clarify LRA Section A.1.39 regarding the volumetric examination of high-strength structural bolts.

ENCLOSURE