



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

November 16, 2009

Mr. Larry Meyer
Site Vice President
NextEra Energy Point Beach, LLC
6610 Nuclear Road
Two Rivers, WI 54241-9516

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2 - REQUEST FOR
ADDITIONAL INFORMATION FROM BALANCE OF PLANT BRANCH RE: MAIN
FEEDWATER ISOLATION VALVE (TAC NOS. ME1081 AND ME1082)

Dear Mr. Meyer:

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated April 7, 2009, as supplemented by two letters dated June 17, 2009, and letters dated September 11 and 25, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML091250564, ML091690087, ML091690090, ML092570205, and ML092750395, respectively), FPL Energy Point Beach, LLC, submitted a request to change technical specifications due to modifications to the auxiliary feedwater system (AFW). Based on the September 11, 2009, letter, the NRC staff is including the review of the main feedwater isolation valve installation with the AFW modification. This was originally part of the extended power uprate request but was separated out by the NRC staff.

The NRC staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on October 15, 2009, it was agreed that you would provide the additional information within 30 days of the date of this letter.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-2048.

Sincerely,

A handwritten signature in black ink, appearing to read "Justin C. Poole", with a long horizontal flourish extending to the right.

Justin C. Poole, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-266 and 50-301

Enclosure:
Request for Additional Information

cc w/encl: Distribution via ListServ

REQUEST FOR ADDITIONAL INFORMATION

POINT BEACH NUCLEAR POWER PLANT (PBNP), UNITS 1 AND 2

DOCKET NOS. 50-266 AND 50-301

SBPB - FW - RAI - 1

In the amendment dated April 7, 2009, the licensee states that "The current safety-grade [feedwater regulating valves] FRVs are being modified with a non-safety grade internal trim and operators." Based upon this statement the licensee may intend to downgrade the main feedwater regulating valves (MFRV's); yet, the MFRV's are credited in Chapter 14 analyses for providing backup isolation in the event of a failure of the main feedwater isolation valve (MFIV).

The staff recognizes that NUREG-0138 allows a licensee to take credit for nonsafety-grade components in the main feedwater line even though they are not designed seismic Category I, to perform a backup isolation in certain accident scenarios, because the staff does not require that an earthquake be assumed to occur coincident with the postulated main steamline break. However, NUREG-0138 does prescribe that in order to rely on these non-safety-grade components, their design and performance must be compatible with the accident conditions they are called upon to be credited in, and the reliability of these valves is of the same order of magnitude as that accepted for nuclear safety-grade components.

Request

The staff requests the licensee justify their position in continuing to use the MFRV as a credited in their safety analyses as back-up isolation based upon their proposal to start using non-safety grade components in these MFRVs. Explain whether the MFRVs will continue to be safety-related.

SBPB - FW - RAI - 2

The licensee proposed to modify the technical specification surveillance requirements, adding a test every 18 months for the new MFIVs to isolate. The conditions that the MFIVs will be tested at may affect the response times.

Request

The staff requests the licensee provide stroke time curves for MFIVs if available, explain the conditions that they will perform surveillance testing of the MFIV, and the criteria used to ensure that the valve closure times meet any safety analysis limits.

SBPB - FW - RAI - 3

The licensee proposes to install the new MFIVs just upstream of the two safety-related containment isolation check valves. Since the main feedwater line is high pressure and high temperature, the MFIVs and the surrounding components may create a possible missile hazard; in addition, the safety-related MFIVs may be a target from possible missiles in accordance with General Design Criteria (GDC) 4 and their applicable current licensing design basis, PBNP GDC 40.

Request

The staff requests the licensee to evaluate whether the MFIVs have adequate protection against the dynamic effects and missiles that might result from plant equipment failures.

SBPB - FW - RAI – 4

The licensee's Inservice Testing (IST) program document details the technical basis and provides the overall description of the activities planned to fulfill the IST requirements for pumps and valves as specified in Title 10 of the *Code of Federal Regulations* (10CFR) Section 50.55a(f)(4)(ii), and required by Point Beach Nuclear Plant Technical Specification 5.5.2.10. The new MFIVs are safety-related and credited in the design-basis accident in the event of a MSLB. The valve will be needed to be added to the IST Program.

Request

The staff requests the licensee verify that the MFIVs have been added correctly to the IST program.

Mr. Larry Meyer
Site Vice President
NextEra Energy Point Beach, LLC
6610 Nuclear Road
Two Rivers, WI 54241-9516

SUBJECT: POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2 - REQUEST FOR ADDITIONAL INFORMATION FROM BALANCE OF PLANT BRANCH REGARDING MAIN FEEDWATER ISOLATION VALVE (TAC NOS. ME1081 AND ME1082)

Dear Mr. Meyer:

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated April 7, 2009, as supplemented by two letters dated June 17, 2009, and letters dated September 11 and 25, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML091250564, ML091690087, ML091690090, ML092570205, and ML092750395, respectively), FPL Energy Point Beach, LLC, submitted a request to change technical specifications due to modifications to the auxiliary feedwater system (AFW). Based on the September 11, 2009, letter, the NRC staff is including the review of the main feedwater isolation valve installation with the AFW modification. This was originally part of the extended power uprate request but was separated out by the NRC staff.

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Sincerely,

/RA/

Justin C. Poole, Project Manager
Plant Licensing Branch III-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-266 and 50-301

Enclosure:
Request for Additional Information

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ADAMS Accession Number: ML093140231

*per memo dated October 7, 2009

OFFICE	LPL3-1/PM	LPL3-1/LA	NRR/SBPB/BC	LPL3-1/BC
NAME	JPoole	THarris	GCasto*	RPascarelli
DATE	11/13/09	11/13/09	10/7/09	11/16/09

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