



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

August 13, 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 ACCIDENT DOSE BRANCH RE:
ALTERNATE SOURCE TERM (TAC NOS. ME0219 AND ME0220)

Dear Mr. Meyer:

By letter to the U.S. Nuclear Regulatory Commission (NRC) dated December 8, 2008, as supplemented by letters dated January 16 and 27, February 20, two letters on April 17, May 15, June 1, and July 24, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession Nos. ML083450683, ML090160571, ML090280348, ML090540860, ML091100182, ML091100215, ML091380113, ML091560413, and ML091950072, respectively), FPL Energy Point Beach, LLC, submitted a request to revise the current licensing basis to implement the alternate source term (AST) through reanalysis of the radiological consequences of the Final Safety Analysis Report Chapter 14 accidents.

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 August 5, 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 "J. Poole", written over a white background.

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, UNITS 1 AND 2

DOCKET NOS. 50-266 AND 50-301

1. Please provide additional information explaining the need for the control room ventilation system (VNCR) accident mode in mitigating postulated post-design-basis accident activity releases in lieu of a Technical Specification controllable safety-related system.

In addition, please provide information on any other mitigating systems (safety-related or otherwise) that will or can be used for control room isolation.

2. In Enclosure 3, Section 6.5, page 45 of the submittal, there is a discussion on primary-to-secondary leakage release pathway for the control rod ejection accident (CRDE) analysis. In the first paragraph it states that primary-to-secondary steam generator (SG) tube leakage is assumed to continue until 2000 seconds, or 0.556 hours, when the primary system pressure is less than the secondary system pressure. However, in the following paragraph it states that primary-to-secondary SG leakage is assumed to be 1000 gpm for the duration of the accident.

Please provide which value was used to evaluate the radiological consequences of a CRDE event.

3. The safety evaluation associated with Point Beach Unit 1 and Unit 2, Amendment Nos. 213 and 218, respectively (Agencywide Documents Access and Management System (ADAMS) Accession No. ML040680918), dated April 02, 2004, suggested that the meteorological measurement program was to be upgraded in the post 1999 timeframe. Were the September 2000, through September 2005, meteorological data provided in the December 8, 2008, Point Beach Alternative Source Term License Amendment Request (LAR) measured under the upgraded program? If so, please highlight the upgrades and discuss the current program's capability to assess the Point Beach site meteorology, particularly with respect to atmospheric stability and wind flow.
4. What is the relationship of "called north" to true north for the Point Beach site? Nuclear Regulatory Commission (NRC) staff examined Figure 2 of Enclosure 3 to the December 8, 2008, Point Beach LAR, but had difficulty reading the figure because it had been reduced in size.
5. Please provide a further discussion of why it is acceptable to use the control room atmospheric dispersion factors (χ/Q values) for dose estimates associated with unfiltered inleakage into the control room envelope. Where is the control room located with respect to the postulated release locations shown in the figures provided as part of the December 8, 2008, LAR?
6. NRC staff notes that inputs to the ARCON96 computer code were provided for the release locations identified as the limiting cases. Other than for the refueling water storage tank, did you make quantitative calculations for other possible releases (e.g., from Unit 1) or was the determination of which releases were limiting based upon a subjective assessment? Please confirm that the generated χ/Q values model the limiting doses and all potential release scenarios were considered, including those due to single failures.

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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

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Request for Additional Information

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ADAMS Accession Number: ML092151123

*per memo dated July 30, 2009

OFFICE	LPL3-1/PM	LPL3-1/LA	NRR/AADB/BC	LPL3-1/BC
NAME	JPoole	BTully /THarris for	WBlumberg for RTaylor*	LJames
DATE	08/12/09	08/10/09	07/30/09	08/13/09

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