



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

February 25, 2015

Mr. Mano Nazar
President and Chief Nuclear Officer
Nuclear Division
NextEra Energy
P.O. Box 14000
Juno Beach, FL 33408-0420

SUBJECT: ST. LUCIE PLANT, UNIT NO. 2 - EXTENSION OF REACTOR PRESSURE
VESSEL SURVEILLANCE REPORT FOR CAPSULE 97 DEGREES
(TAC NO. MF5353)

Dear Mr. Nazar:

By letter dated December 3, 2014, Florida Power & Light Company requested to extend the submission deadline of the summary technical report of the reactor pressure vessel surveillance testing results for Capsule 97 degrees. The summary technical report is required by Title 10 of the *Code of Federal Regulations* Part 50, Appendix H, "Reactor Vessel Material Surveillance Program Requirements."

The U.S. Nuclear Regulatory Commission (NRC) staff completed review of the December 3, 2014, letter and found the proposed extension of the submission deadline acceptable. Details of the NRC staff's review are set forth in the enclosed Safety Evaluation. Accordingly, the proposed extension of the submission deadline, from March 22, 2015, to May 22, 2015, is granted.

Sincerely,

A handwritten signature in black ink that reads "Shana R. Helton".

Shana R. Helton, Chief
Plant Licensing Branch II-2
Division of Operator Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-389

Enclosure: Safety Evaluation

cc w/enclosure: Distribution via Listserv



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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
REQUEST FOR EXTENSION OF
REACTOR PRESSURE VESSEL SURVEILLANCE REPORT
FOR CAPSULE 97 DEGREES OF
ST. LUCIE PLANT, UNIT NO. 2
FLORIDA POWER AND LIGHT COMPANY
DOCKET NO. 50-389

1.0 INTRODUCTION

By letter dated December 3, 2014 (Agencywide Documents Access and Management System Accession No. ML14351A075), Florida Power and Light Company (FPL) requested deferral of the submission of the summary technical report of the reactor pressure vessel (RPV) surveillance testing results for Capsule 97 degrees. The summary technical report is required by Title 10 of the *Code of Federal Regulations* (10 CFR) Part 50, Appendix H, "Reactor Vessel Material Surveillance Program Requirements." The St. Lucie Plant, Unit No. 2 (SL-2), Capsule 97 degrees was withdrawn from the reactor on March 22, 2014. The cited requirement would require submission of the summary technical report by March 22, 2015 (i.e., 1 year after capsule withdrawal). By the December 3, 2014 letter, FPL requested to extend the submission deadline of the summary technical report from March 22, 2015, to May 22, 2015, due to logistical difficulties and changing shipping conditions and requirements.

2.0 REGULATORY REQUIREMENTS

Nuclear power plant licensees are required by Appendix H to 10 CFR Part 50 to implement RPV surveillance programs to "monitor changes in the fracture toughness properties of ferritic materials in the reactor vessel beltline region... which result from exposure of these materials to neutron irradiation and the thermal environment." Paragraph VI.A states that the summary technical report (i.e., surveillance capsule report) must be submitted within 1 year of the date of capsule withdrawal, unless an extension is granted by the Director of the Office of Nuclear Reactor Regulation.

3.0 TECHNICAL EVALUATION

The U.S. Nuclear Regulatory Commission (NRC) staff has verified that the unit's current heatup/cooldown curves (i.e., pressure/temperature limits) have a service period of 47 effective full power years (EFPY). In its December 3, 2014, letter, FPL stated that the SL-2 reactor vessel has experienced a fluence of approximately 26 EFPY. Thus, there is sufficient margin to support this proposed extension. Accordingly, the NRC staff determined that the requested

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extension of the deadline to submit the summary technical report for SL-2, Capsule 97 degrees will not affect the safe operation of SL-2.

4.0 CONCLUSION

Based on its review of FPL's December 3, 2014, letter, the NRC staff determined that extending the submission deadline for the summary technical report for SL-2, Capsule 97 degrees from March 22, 2015, to May 22, 2015, is in accordance with Appendix H to 10 CFR Part 50. The requested extension is acceptable and is granted.

Principal Contributor: David Dijamco

Date: February 25, 2015

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Sincerely,

/RA/

Shana R. Helton, Chief
Plant Licensing Branch II-2
Division of Operator Reactor Licensing
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By a memorandum

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