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

July 16, 2024

Bob Coffey
Executive Vice President, Nuclear
and Chief Nuclear Officer
Florida Power & Light Company
Mail Stop: EX/JB
700 Universe Blvd.
Juno Beach, FL 33408

SUBJECT: TURKEY POINT NUCLEAR GENERATING, UNIT NOS. 3 AND 4, AND ST. LUCIE PLANT, UNIT NO. 2 – REQUEST TO USE A LATER CODE EDITION AND ADDENDA OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS BOILER AND PRESSURE VESSEL CODE, SECTION XI (EPID L-2024-LLR-0024)

Dear Bob Coffey:

By letter dated March 28, 2024 (Agencywide Documents Access and Management System Accession No. ML24088A207), Florida Power and Light Company (FPL, the licensee) submitted a request to use a provision of a later edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, Section XI, at Turkey Point Nuclear Generating, Unit Nos. 3 and 4 (Turkey Point 3 and 4), and St. Lucie Plant, Unit No. 2 (St. Lucie 2).

Specifically, pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 50.55a(g)(4)(iv), "*Applicable ISI Code: Use of subsequent Code editions and addenda,"* FPL proposed to use the 2019 Edition of the ASME B&PV Code, Section XI.

The U.S. Nuclear Regulatory Commission approves the use of 2019 Edition of ASME B&PV Code, Section XI, for the Fifth 10-Year Inservice Inspection (ISI) interval for St. Lucie 2, that began on August 8, 2023, and ends on August 7, 2033; for the Sixth 10-Year ISI interval for Turkey Point 3, that began on February 22, 2024, and ends on February 21, 2034; and for the Sixth 10-Year ISI interval for Turkey Point 4, that began on April 15, 2024, and ends on April 14, 2034.

If you have any questions, please contact the Project Manager, Michael Mahoney, at (301) 415-3867, or Michael.Mahoney@nrc.gov.

Sincerely,

DAVID WRONA

Digitally signed by DAVID WRONA
Date: 2024.07.16 13:04:24 -04'00'

David Wrona, Chief
Plant Licensing Branch II-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-250, 50-251,
and 50-389

Enclosure:
Safety Evaluation

cc: Listserv

UNITED STATES
NUCLEAR REGULATORY COMMISSION
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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO

REQUEST TO USE A LATER EDITION AND ADDENDA OF

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

BOILER AND PRESSURE VESSEL CODE, SECTION XI FOR

TURKEY POINT NUCLEAR GENERATING, UNIT NOS. 3 AND 4

ST. LUCIE PLANT, UNIT NO. 2

FLORIDA POWER AND LIGHT COMPANY

DOCKET NOS. 50-250, 50-251, AND 50-389

1.0 INTRODUCTION

By letter dated March 28, 2024 (Agencywide Documents Access and Management System Accession No. ML24088A207), Florida Power and Light Company (FPL, the licensee) submitted a request to use a provision of a later edition of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (B&PV) Code, Section XI, at Turkey Point Nuclear Generating Unit Nos. 3 and 4 (Turkey Point 3 and 4) and St. Lucie Plant, Unit No 2 (St. Lucie 2).

Specifically, pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) 50.55a(g)(4)(iv), "*Applicable ISI [inservice inspection] Code: Use of subsequent Code editions and addenda,"* FPL proposed to use the 2019 Edition of the ASME B&PV Code, Section XI.

The time period applicable for the use of the requested subsequent ASME B&PV Code edition and addenda is the Fifth 10-Year ISI interval for St. Lucie 2, which began on August 8, 2023, and ends on August 7, 2033; for the Sixth 10-Year ISI interval for Turkey Point 3, that began on February 22, 2024, and ends on February 21, 2034; and for the Sixth 10-Year ISI interval for Turkey Point 4, that began on April 15, 2024, and ends on April 14, 2034.

2.0 PROPOSED USE OF SUBSEQUENT CODE EDITION AND ADDENDA

2.1 Component(s) for which the subsequent Code Edition is requested

All Class 1, 2, and 3 items located in the ASME B&PV Code, Section XI, boundaries.

2.2 Current Code Edition and Addenda of Record

The Code of Record for the current 10-year ISI interval at the subject plants is ASME Code, Section XI, 2007 Edition with the 2008 Addenda.

Note that the applicable Code of Record for the St. Lucie 2, Turkey Point 2, and Turkey Point Unit 3 ISI Program in accordance with 10 CFR 50.55a(g)(4)(ii) would be the 2017 Edition of ASME BPV Code, Section XI, based on the Fifth ISI 10-Year Interval for St. Lucie beginning on August 8, 2023, the Sixth ISI 10-Year Interval for Turkey Point Unit 3 beginning on February 22, 2024, and the Sixth ISI 10-Year Interval for Turkey Point Unit 4 beginning on April 15, 2024.

2.3 Proposed Subsequent Code Edition and Addenda

The proposed subsequent Code edition and addenda to be used is the 2019 Edition of the ASME B&PV Code, Section XI.

2.4 Duration of the Use of the Later Code Edition and Addenda

The licensee is requesting approval of the use of the 2019 Edition of the ASME B&PV Code, Section XI for the remainder of the 10-year ISI intervals, as shown in Table 1 below.

Table 1

Plant/Unit(s)	10-Year ISI Interval	ISI Interval Start Date	ISI Interval Planned End Date
St. Lucie 2	Fifth	08/08/2023	08/07/2033
Turkey Point 3	Sixth	02/22/2024	02/21/2034
Turkey Point 4	Sixth	04/15/2024	04/14/2034

3.0 REGULATORY EVALUATION

The licensee is proposing to use a section of a later edition and addenda of the ASME B&PV Code, Section XI, in accordance with 10 CFR 50.55a(g)(4)(iv), *"Applicable ISI Code: Use of subsequent Code editions and addenda,"* which states:

> Inservice examination of components and system pressure tests may meet the requirements set forth in subsequent editions and addenda that are incorporated by reference in paragraph (a) of this section, subject to the conditions listed in paragraph (b) of this section, and subject to Commission approval. Portions of editions or addenda may be used, provided that all related requirements of the respective editions or addenda are met.

Given that 10 CFR 50.55(g)(4)(iv) permits the U.S. Nuclear Regulatory Commission (NRC) staff to approve the use of subsequent ASME B&PV Code edition and addenda, the NRC staff finds that, subject to the following technical evaluation, the licensee may propose to use a later edition and addenda of the ASME B&PV Code, Section XI, and the NRC staff has the regulatory authority to approve the later edition and addenda of the ASME B&PV Code, Section XI.

4.0 NRC TECHNICAL EVALUATION

Prior to approving the use of a subsequent edition and addenda of the ASME B&PV Code under 10 CFR 50.55a(g)(4)(iv), the NRC staff must find that (1) the proposed subsequent edition and addenda are incorporated by reference in 10 CFR 50.55a(a); (2) the licensee has identified any conditions listed in 10 CFR 50.55a(b) appropriate to the request and will comply with those conditions; (3) the licensee has requested approval to use the subsequent edition and addenda; and (4) if only portions of edition or addenda are to be used, all related requirements of the respective edition or addenda are met. If these four criteria are met, the NRC staff finds the use of the subsequent edition and addenda of the ASME B&PV Code, Section XI, to be acceptable.

4.1 Incorporation by Reference

In evaluating the first criterion, the staff notes that 10 CFR 50.55a(a) incorporates by reference the ASME Code, Section XI, 2019 Edition, as published in the *Federal Register* on October 27, 2022 (87 FR 65148), becoming effective November 28, 2022. Therefore, the NRC staff finds that the first criterion has been satisfied.

4.2 Subject to Conditions Listed in 10 CFR 50.55a(b)

In evaluating the second criterion, the staff observes that the FPL letter does not propose any alternatives to the provisions of the 2019 Edition of ASME Code, Section XI, as incorporated by reference. Use of Section XI would, therefore, be subject to the conditions listed in 10 CFR 50.55a(b). With this understanding, the NRC staff finds that the second criterion has been satisfied.

4.3 Requesting Commission Approval

In evaluating the third criterion, the staff notes that FPL's March 28, 2024, submittal constitutes a request to the Commission for approval to use a subsequent edition of the ASME Code, Section XI. Therefore, the NRC staff finds that the third criterion has been satisfied.

4.4 All Related Requirements

In evaluating the fourth criterion, the staff observes that the FPL letter commits to observing all related requirements of 2019 Edition of ASME Code, Section XI as incorporated by reference. Therefore, the NRC staff finds that the fourth criterion has been satisfied.

4.5 Summary

Based on the review above, the NRC staff finds that the licensee has adequately addressed all regulatory requirements set forth in 10 CFR 50.55a(g)(4)(iv).

5.0 CONCLUSION

As set forth above, the NRC staff determines that the use of the ASME Code, Section XI, 2019 Edition for the St. Lucie Unit 2 Fifth 10-Year Interval ISI Program, and the Turkey Point Unit 3 and Unit 4 Sixth 10-Year Interval ISI Programs is acceptable because FPL has adequately addressed all the regulatory requirements set forth in 10 CFR 50.55a(g)(4)(iv), and is in compliance with the requirements of the ASME Code, Section XI.

Therefore, the NRC staff approves the use of the ASME Code, Section XI, 2019 Edition for the duration of the proposed request.

Principal Contributor: M. Burton, NRR

Date: July 16, 2024

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