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Serial: HNP-15-007

10 CFR 50.4

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Duke Energy Progress, Inc. (Duke Energy)
Shearon Harris Nuclear Power Plant (HNP), Unit 1
Docket Number 50-400
Renewed License Number NPF-63

Subject: Fourth Six-Month Status Report in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)

References:

1. Nuclear Regulatory Commission (NRC) Order Number EA-12-051, *Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation*, dated March 12, 2012, Agency-wide Documents Access and Management System (ADAMS) Accession No. ML12054A679
2. NRC Interim Staff Guidance JLD-ISG-2012-03, *Compliance with Order EA-12-051, Reliable Spent Fuel Pool Instrumentation*, Revision 0, dated August 29, 2012, ADAMS Accession No. ML12221A339
3. Nuclear Energy Institute (NEI) 12-02, *Industry Guidance for Compliance with NRC Order EA-12-051, "To Modify Licenses with Regard to Reliable Spent Fuel Pool Instrumentation"*, Revision 1, dated August 2012, ADAMS Accession No. ML12240A307
4. Duke Energy Letter, *Carolina Power & Light Company and Florida Power Corporation's Initial Status Report in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated October 29, 2012, ADAMS Accession No. ML12307A020
5. Duke Energy Letter, *Carolina Power & Light Company's Overall Integrated Plans in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated February 28, 2013, ADAMS Accession No. ML13086A096
6. Duke Energy Letter, *Carolina Power & Light Company, First Six-Month Status Reports in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated August 26, 2013, ADAMS Accession No. ML13242A010

7. NRC Letter, *Shearon Harris Nuclear Power Plant Unit 1 - Interim Staff Evaluation and Request For Additional Information Regarding the Overall Integrated Plan for Implementation of Order EA-12-051, Reliable Spent Fuel Pool Instrumentation (TAC No. MF0792)*, dated November 19, 2013, ADAMS Accession No. ML13280A482
8. Duke Energy Letter, *Carolina Power & Light Company, Second Six-Month Status Report in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated February 27, 2014, ADAMS Accession No. ML14063A198
9. NRC Letter, *Nuclear Regulatory Commission Audits of Licensee Responses to Reliable Spent Fuel Pool Instrumentation Order EA-12-051*, dated March 26, 2014, ADAMS Accession No. ML14083A620
10. Duke Energy Letter, *Carolina Power & Light Company, Third Six-Month Status Report in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated August 22, 2014, ADAMS Accession No. ML14251A015

Ladies and Gentlemen,

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued Order EA-12-051 (Reference 1). Reference 1 was immediately effective and directs Duke Energy to have a reliable indication of water level in associated spent fuel storage pools. Specific requirements are outlined in Attachment 2 of Reference 1.

Reference 1 required submission of an initial status report 60 days following issuance of the final interim staff guidance (Reference 2) and an overall integrated plan pursuant to Section IV, Condition C. Reference 2 endorses industry guidance document NEI 12-02, Revision 1 (Reference 3), with clarifications and exceptions identified in Reference 2. Reference 4 provided the Duke Energy initial status report regarding spent fuel pool instrumentation. Reference 5 provided the Duke Energy overall integrated plan.

Reference 1 required submission of a status report at six-month intervals following submittal of the overall integrated plan. Reference 3 provides direction regarding the content of the status reports. References 6, 8, and 10 provided the first, second, and third six-month status reports, respectively for Shearon Harris Nuclear Power Plant, Unit 1 (HNP).

The purpose of this letter is to provide the fourth six-month status report pursuant to Section IV, Condition C.2, of Reference 1, that delineates progress made in implementing the requirements of Reference 1 (Enclosure 1). The enclosed report provides an update since the last status report, including any changes to the compliance method, schedule, or need for relief and the basis, if any.


By letter dated November 19, 2013 (Reference 7), the NRC staff provided an Interim Staff Evaluation (ISE) which included a Request for Additional Information (RAI) to HNP. In accordance with Reference 9, the NRC staff advised each licensee participating in the audit not to formally submit their RAI responses on the docket but to instead place the responses and other supporting information on the site ePortal by the date identified in the ISE. Responses to the RAIs were placed in the HNP ePortal.

This letter contains no new Regulatory Commitments and no revision to existing Regulatory Commitments.

Should you have any questions regarding this submittal, please contact Mr. David H. Corlett, Regulatory Affairs Manager, at 919-362-3137.

I declare under penalty of perjury that the foregoing is true and correct.
Executed on February 23, 2015.

Sincerely,



Benjamin C. Waldrep

Enclosure:

Fourth Six-Month Status Report for the Implementation of Order EA-12-051, Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation, Shearon Harris Nuclear Power Plant, Unit 1, Docket No. 50-400, Renewed License Number NPF-63

cc: Mr. J. D. Austin, NRC Sr. Resident Inspector, HNP
Ms. M. Barillas, NRC Project Manager, HNP
Mr. V. M. McCree, NRC Regional Administrator, Region II
Mr. S. R. Monarque, NRC Japan Lessons-Learned Project Manager, HNP

U.S. Nuclear Regulatory Commission
Serial HNP-15-007, Enclosure

SERIAL HNP-15-007

ENCLOSURE

**FOURTH SIX-MONTH STATUS REPORT FOR THE IMPLEMENTATION OF
ORDER EA-12-051, ORDER MODIFYING LICENSES WITH REGARD TO
RELIABLE SPENT FUEL POOL INSTRUMENTATION**

SHEARON HARRIS NUCLEAR POWER PLANT, UNIT 1

DOCKET NUMBER 50-400

RENEWED LICENSE NUMBER NPF-63

Shearon Harris Nuclear Power Plant, Unit 1
Fourth Six-Month Status Report for the Implementation of Order EA-12-051, Order
Modifying Licenses with Regard to
Reliable Spent Fuel Pool Instrumentation

Introduction

Duke Energy Progress, Inc., (Duke Energy) developed an Overall Integrated Plan (OIP) (Reference 1), for the Shearon Harris Nuclear Power Plant (HNP), Unit 1, documenting the requirements to install reliable spent fuel pool level instrumentation in response to NRC Order EA-12-051. The first six-month update was provided to the NRC on August 26, 2013 (Reference 2). The second six-month update was provided to the NRC on February 27, 2014 (Reference 8). The third six-month update was provided to the NRC on August 22, 2014 (Reference 10). This enclosure provides an update of milestone accomplishments including any changes to the compliance method, schedule, or need for relief/relaxation and the basis, if any, that occurred during the period from July 28, 2014, to January 29, 2015 (hereafter referred to as "the update period").

Milestone Accomplishments

Milestones were not previously provided.

Milestone Schedule Status

There are no changes to the overall implementation schedule as reported in the OIP.

Changes to Compliance Method

No changes were made during the update period.

Need for Relief/Relaxation and Basis for the Relief/Relaxation

HNP expects to comply with the order implementation due date and no relief/relaxation is required at this time.

Open Items from Overall Integrated Plan and Interim Staff Evaluation

There are no open items documented in the OIP or in the Interim Staff Evaluation (ISE). Reference 9 instructs that responses to the Request for Additional Information (RAI) do not need to be formally submitted on the docket but to instead place the response in the HNP ePortal. Responses to the RAIs were posted on the HNP ePortal.

Potential Interim Staff Evaluation Impacts

There are no potential impacts to the ISE identified at this time.

References

The following references support the updates to the Overall Integrated Plan described in this enclosure.

1. Duke Energy Letter, *Carolina Power & Light Company's Overall Integrated Plans in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated February 28, 2013, ADAMS Accession No. ML13086A096
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3. NRC Order Number EA-12-051, *Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation*, dated March 12, 2012, ADAMS Accession No. ML12054A679
4. NRC Interim Staff Guidance JLD-ISG-2012-03, *Compliance with Order EA-12-051, Reliable Spent Fuel Pool Instrumentation*, dated August 29, 2012, ADAMS Accession No. ML12221A339
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6. Duke Energy Letter, *Carolina Power & Light Company and Florida Power Corporation's Initial Status Report in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Requirements for Reliable Spent Fuel Pool Instrumentation (Order Number EA-12-051)*, dated October 29, 2012, ADAMS Accession No. ML12307A020
7. NRC Letter, *Shearon Harris Nuclear Power Plant Unit 1 - Interim Staff Evaluation and Request For Additional Information Regarding the Overall Integrated Plan for Implementation of Order EA-12-051, Reliable Spent Fuel Pool Instrumentation (TAC No. MF0792)*, dated November 19, 2013, ADAMS Accession No. ML13280A482
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