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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, Unit 1  
Docket Number 50-400

**Subject:** 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)

**References:**

1. NRC Order Number EA-12-051, *Issuance of Order to Modify 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. 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, *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

ADD  
NRC

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. Reference 6 provided the first six-month status report for Shearon Harris Nuclear Power Plant, Unit 1 (HNP). The purpose of this letter is to provide the second 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. 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.

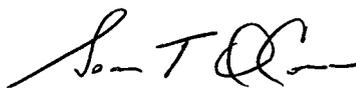
By Letter dated November 19, 2013 (Reference 7), the NRC staff provided an Interim Staff Evaluation (ISE) which included a Request for Additional Information (RAI) to HNP. In Reference 7, the NRC staff indicated that Duke Energy should provide the information requested in the 6-month status updates, as the information becomes available, with all information to be provided by September 30, 2014. This 6-month status update contains no RAI responses.

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

Should you have any questions regarding this submittal, please contact Dave Corlett at (919) 362-3137.

I declare under penalty of perjury that the foregoing is true and correct.  
Executed on February 27, 2014.

Sincerely,



Sean T. O'Connor

Enclosure:

Second Six Month Status Report for the Implementation of Order EA-12-051, Order  
Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation

cc: Mr. J. D. Austin, NRC Sr. Resident Inspector, HNP  
Mr. A. Hon, NRC Project Manager, HNP  
Mr. V. M. McCree, NRC Regional Administrator, Region II

**Shearon Harris Nuclear Power Plant, Unit 1**  
**Docket Number 50-400**

**Second Six Month Status Report for the Implementation of Order EA-12-051,  
Order Modifying Licenses with Regard to  
Reliable Spent Fuel Pool Instrumentation**

**1 Introduction**

Shearon Harris Nuclear Power Plant, Unit 1 (HNP) developed an overall integrated plan (OIP) (Reference 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). This enclosure provides an update of accomplishments since submittal of the first six-month update, 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 31, 2013, to January 28, 2014 (hereafter referred to as "the update period").

**2 Milestone Accomplishments**

Milestones were not previously provided.

**3 Milestone Schedule Status**

There is no change to the overall implementation schedule as reported in Reference 1 of Section 8 (OIP).

**4 Changes to Compliance Method**

No changes were made during the update period.

**5 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.

**6 Open Items from Overall Integrated Plan and Interim Staff Evaluation**

There are no open items documented in the Overall Integrated Plan or in the Interim Staff Evaluation (ISE) (Reference 4). The ISE included a Request for Additional Information (RAI) however, this 6-month status update contains no RAI responses.

**7 Potential Interim Staff Evaluation Impacts**

There are no potential impacts to the Interim Staff Evaluation identified at this time.

## 8 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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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
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