

444 South 16th Street Mall Omaha, NE 68102-2247

LIC-13-0123 August 28, 2013

U. S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555-0001

References: 1. Docket No. 50-285

- NRC Order Number EA-12-049, "Issuance of Order to Modify Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," dated March 12, 2012 (ML12054A736) (NRC-12-0020)
- 3. NRC Interim Staff Guidance JLD-ISG-2012-01, "Compliance with Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," Revision 0, dated August 29, 2012 (ML12229A174)
- Nuclear Energy Institute (NEI) 12-06, "Diverse and Flexible Coping Strategies (FLEX) Implementation Guide," Revision 0, dated August 2012 (ML12242A378)
- Letter from OPPD (L. P. Cortopassi) to NRC (Document Control Desk), "OPPD Initial Status Report in Response to March 12, 2012 Commission Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events (Order Number EA-12-049)," dated October 17, 2012 (ML12305A226) (LIC-12-0154)
- Letter from OPPD (L. P. Cortopassi) to NRC (Document Control Desk), "Omaha Public Power District's Overall Integrated Plan in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond Design Basis External Events (Order Number EA-12-049)," dated February 28, 2013 (ML13064A298) (LIC-13-0019)

SUBJECT: Omaha Public Power District's First Six-Month Status Report for the Implementation of Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events

On March 12, 2012, the Nuclear Regulatory Commission (NRC) issued an Order (Reference 2) to all power reactor licensees and holders of construction permits in active or deferred status. The Order (Reference 2) was effective immediately and requires the Omaha Public Power District (OPPD) to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities in the event of a beyond-design-basis external event (BDBEE). Specific requirements are described in Attachment 2 of the Order (Reference 2).

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Reference 2 required submission of an initial status report 60 days following issuance of the final interim staff guidance (Reference 3) and an overall integrated plan pursuant to Section IV, Condition C. Reference 3 endorses industry guidance document NEI 12-06, Revision 0 (Reference 4) with clarifications and exceptions identified in Reference 3. Reference 5 provided the OPPD initial status report regarding mitigation strategies. Reference 6 provided the Fort Calhoun Station overall integrated plan.

Reference 2 requires submission of a status report at six-month intervals following submittal of the overall integrated plan. Reference 4 provides direction regarding the content of the status reports. The purpose of this letter is to provide the first six-month status report pursuant to Section IV, Condition C.2, of Reference 2, that delineates progress made in implementing the requirements of Reference 2. The enclosed report provides an update of milestone accomplishments since the last status report, including any changes to the compliance method, schedule, or need for relief and the basis, if any.

There are no regulatory commitments contained in this submittal.

If you should have any questions regarding this submittal, please contact Mr. Bill R. Hansher at (402) 533-6894.

I declare under penalty of perjury that the foregoing is true and correct. Executed on August 28, 2013.

Louis P. Cortopassi

Site Vice President and CNO

LPC/GEG/mle

Enclosure: First Six-Month Status Report for the Implementation of Order EA-12-049

- c: E. J. Leeds, Director, Office of Nuclear Reactor Regulation
 - S. A. Reynolds, Acting NRC Regional Administrator, Region IV
 - J. M. Sebrosky, NRC Senior Project Manager
 - L. E. Wilkins, NRC Project Manager
 - J. C. Kirkland, NRC Senior Resident Inspector

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Fort Calhoun Station, Unit No. 1

First Six-Month Status Report for the Implementation of Order EA-12-049, Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events

1 Introduction

The Omaha Public Power District (OPPD) developed an overall integrated plan (Reference 1), documenting the diverse and flexible strategies (FLEX), in response to Reference 2. This attachment provides an update of milestone accomplishments since submittal of the overall integrated plan, including any changes to the compliance method, schedule, or need for relief/relaxation and the basis, if any.

2 Milestone Accomplishments

None.

3 Milestone Schedule Status

Attachment 1 contains an update to the Milestone Schedule (Reference 1, Enclosure, Attachment 2) provided with the overall integrated plan. The status of each milestone is shown, as are revised completion dates. The dates are planning dates subject to change as design and implementation details are developed.

Attachment 1 is formatted to align with the table provided in the Nuclear Energy Institute's (NEI) Six-Month Status Report Template and supersedes the Milestone Schedule provided by Reference 1. Due to delays in the restart of Fort Calhoun Station, the planned refueling outage dates have changed from the fall of 2014 and spring of 2016 to the spring of 2015 and the fall of 2016, which has resulted in changes to some of the milestone dates provided in the overall integrated plan (Reference 1). The revised milestone target completion dates do not impact the implementation date of the Order.

4 Changes to Compliance Method

There are no changes to the compliance method as documented in the Fort Calhoun Station overall integrated plan (Reference 1). However, one correction is being provided.

The Essential Instrumentation Equipment and Indicator Locations Table (Reference 1, Enclosure, Appendix B, Page B-20), inadvertently lists auxiliary feedwater (AFW) Flow A and B (FT-1109 and 1110) as essential instrumentation. While these instruments are desirable for assessing the reactor coolant system (RCS) heat removal function, they are not essential and are not listed in Table 1 of the overall integrated plan (Reference 1, Enclosure, Page 15 of 47). Therefore, FT-1109 and FT-1110 have been deleted from the Essential Instrumentation Equipment and Indicator Locations Table. Attachment 2 provides a page superseding Reference 1, Enclosure, Appendix B, Page B-20 with a revision bar in the right margin denoting the location of the revision.

OPPD has developed an interim strategy to address a flood up to 21 feet above Design Basis (i.e., elevation 1035' mean sea level). This strategy is similar to that described in Reference 1, Enclosure, Appendix B, Action 24, but involves a slightly different portable equipment

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configuration to accommodate issues not yet addressed by FLEX modifications. Depending on the outcome of the Near Term Task Force Recommendation 2.1 flood re-analysis and detailed design work on FLEX modifications, some or all of the interim equipment and strategies may be incorporated into the Overall FLEX Integrated Plan. OPPD will provide the status of integrating the interim flood strategy into the overall integrated plan in a future six-month update.

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

OPPD expects to comply with the Order's implementation date and no relief/relaxation is required at this time.

6 Open Items from Overall Integrated Plan and Draft Safety Evaluation

The following tables provide a summary of the open items documented in the overall integrated plan (Reference 1) or the Draft Safety Evaluation (SE) and the status of each item.

	Overall Integrated Plan Open Item	Status
1.	Communicate exceptions related to Site Security Plan or Other License requirements	Not Started
2.	Complete Control Room Heatup Calculation	Started
3.	Complete Reactor Coolant System (RCS) Makeup Evaluation with Reactor Coolant Pump (RCP) Controlled Bleed-off (CBO) Modification	Not Started
4.	Develop Playbook	Started
5.	Complete Water Chemistry Impact Analysis and review impact on the strategies	Complete
6.	Complete Core Uncovery Time Evaluation with RCP CBO Isolation. (This is subtask of open item #3.)	Not Started
7.	Evaluate Auxiliary Building Ventilation Requirements with Spent Fuel Pool (SFP) Evaporation	Not Started
8.	Evaluate Environmental Conditions after Extended Loss of AC Power (ELAP) in critical FLEX deployment areas	Not Started

Draft Safety Evaluation Open Item	Status
Draft SE Not Received as of August 28, 2013	N/A

7 Potential Draft Safety Evaluation Impacts

There are no potential impacts to the Draft Safety Evaluation identified at this time.

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8 References

The following references support the updates to the overall integrated plan described in this enclosure.

- Letter from OPPD (L. P. Cortopassi) to NRC (Document Control Desk), "Omaha Public Power District's Overall Integrated Plan in Response to March 12, 2012, Commission Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond Design Basis External Events (Order Number EA-12-049)," dated February 28, 2013 (ML13064A298), (LIC-13-0019)
- NRC Order Number EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," dated March 12, 2012. (ML12054A736), (NRC-12-0020)

Attachments: 1. FLEX Overall Integrated Implementation Plan Milestone Schedule, Revision 1 2. LIC-13-0019, Enclosure, Appendix B, Replacement Page B-20 LIC-13-0123 Enclosure, Attachment 1 Page 1

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Fort Calhoun Station EA-12-049 (FLEX) Overall Integrated Implementation Plan

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Milestone Schedule Revision 1

The following milestone schedule is provided. The dates are planning dates subject to change as design and implementation details are developed. Any changes to the following target dates will be reflected in subsequent 6-month status reports.

Milestone	Target Completion Date	Activity Status	Revised Target Completion Date
Submit 60-Day Status Report	Oct. 2012	Complete	
Submit Overall Integrated Plan	Feb. 2013	Complete	
Submit 6-Month Updates:			
Update 1	Aug. 2013	Complete	
Update 2	Feb. 2014	Not Started	
Update 3	Aug. 2014	Not Started	
Update 4	Feb. 2015	Not Started	······································
Update 5	Aug. 2015	Not Started	
Update 6	Feb. 2016	Not Started	
Update 7	Aug. 2016	Not Started	
FLEX Strategy Evaluation	Mar. 2013	Started	
Walk-throughs or Demonstrations	Sep. 2016	Not Started	Nov. 2016
Perform Staffing Analysis	Sep. 2015	Not Started	
Modifications:			
Modifications Evaluation	Mar. 2013	Started	Dec. 2013
Design Engineering	May 2015	Not Started	Aug. 2015
Implementation Outage	Apr. 2016	Not Started	Oct. 2016
Storage:			
Storage Design Engineering	Jul. 2014	Not Started	
Storage Implementation	Apr. 2016	Not Started	
FLEX Equipment:			
Procure On-Site Equipment	Aug. 2014	Started	
Develop Strategies with RRC	Nov. 2013	Started	Mar. 2015
Install Off-Site Delivery Station (if	Not planned at	Not planned at	
Necessary)	this time	this time	
Procedures:			
PWROG issues NSSS-specific guidelines	Dec. 2013	Started	
Create Site-Specific FSGs	May 2014	Not Started	May 2015
Create Maintenance Procedures	Jun. 2014	Not Started	Feb. 2015
Training:			
Develop Training Plan	Nov. 2014	Not Started	
Training Complete	Jun. 2015	Not Started	Sep. 2016
Full Site FLEX Implementation	Apr. 2016	Started	Oct. 2016
Submit Completion Report	Dec. 2016	Not Started	

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Essential instrumentation Equipment and indicator Locations							
Instrument Variable and Train	Equipment Tag	Indicator	Indicator Location				
EFWST Level FW-19 B	Locally, OR LT-1188 (not essential)	Locally, OR LIA-1188 or LI-1188 (not essential)	Locally, OR Al-66B (not essential)				
Wide Range Pressurizer Pressure	PT-115	PI-115A-2	AI-179				
Wide Range Pressurizer Pressure B	PT-105	UR-105/123	AI-31E				

Essential Instrumentation Equipment and Indicator Locations

NOTE: Instrumentation for Spent Fuel Pool Level monitoring would be inoperable during an SBO event. The Spent Fuel Pool Level instrumentation requires modification to meet the requirements of NRC Order EA 12-051 [Ref. 2]. This modification is being carried out under the response to NRC Order EA 12-051.

Staging Location for the 10 kW FDG: The potential location(s) for the staging area for the 10 kW FDG are marked on the plan drawing for Elevation 1007'-0", as shown below:

Figure 12-1: Potential Staging Location(s) for the 10kW FDG

[[Withheld Under 10 CFR 2.390]]