

June 26, 2013

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U. S. Nuclear Regulatory Commission
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Duane Arnold Energy Center
Docket No. 50-331
Renewed Op. License No. DPR-49

NextEra Energy Duane Arnold Response Regarding Implementation of Multi-Unit/Multi-Source Dose Assessment Capability

- References:
- 1) U. S. NRC's Fukushima Near-Term Task Force Report, "Recommendations for Enhancing Reactor Safety in the 21st Century," dated July 12, 2011 (ML112510271)
 - 2) Letter, J. Pollack (NEI) to J. Wiggins (U. S. NRC), "Industry Implementation of Multi-Unit Dose Assessment Capability," dated January 28, 2013 (ML13028A200)
 - 3) Letter, J. Wiggins (U. S. NRC) to J. Pollack (NEI), dated February 27, 2013 (ML13029A632)
 - 4) Letter, J. Pollack (NEI) to J. Wiggins (U. S. NRC), "Commitment for Implementation of Multi-Unit Dose Assessment Capability," dated March 14, 2013 (ML13073A522)

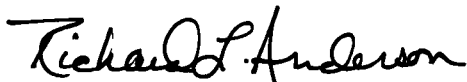
The NRC Fukushima Near-Term Task Force (NTTF) Report (Reference 1) dated July 12, 2011, discussed the gap in capability for US commercial nuclear power plants to perform multi-unit dose assessments. In January 2013, the Nuclear Energy Institute (NEI) provided to the NRC (Reference 2) survey results regarding licensees' capabilities to perform multi-unit dose assessments, implementation time frames to obtain multi-unit dose assessment capability, and compensatory measures for the interim period. In Reference 3, the NRC requested further detailed information regarding the current and the anticipated capabilities of sites to perform multi-unit dose assessment. NEI informed the NRC in Reference 4 that the industry had elected to provide the requested details directly to the NRC staff.

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NextEra Energy Duane Arnold, LLC is providing the requested details in the enclosure to this letter.

This letter makes no new commitments. Should you have any questions concerning the content of this letter, please contact J. Michael Davis at 319-851-7032.



Richard L. Anderson
Vice President, Duane Arnold Energy Center
NextEra Energy Duane Arnold, LLC

cc: Regional Administrator, USNRC, Region III
Resident Inspector, USNRC, Duane Arnold Energy Center
Project Manager, USNRC, Duane Arnold Energy Center
Ms. Sue Perkins-Grew, Nuclear Energy Institute

Enclosure

ENCLOSURE

NextEra Energy Duane Arnold, LLC Implementation of Multi-Unit/Multi-Source Dose Assessment Capability at the Duane Arnold Energy Center (DAEC)

1.0 Introduction

The NRC Fukushima Near-Term Task Force (NTTF) Report (Reference 1) dated July 12, 2011, discussed the gap in capability for US commercial nuclear power plants to perform multi-unit dose assessments. In January 2013, the Nuclear Energy Institute (NEI) sent a letter to the NRC (Reference 2) that reported survey results regarding licensees' current capabilities to perform multi-unit dose assessments. The NEI letter also discussed licensees' expected implementation time frames and compensatory measures for the interim period. In Reference 3, the NRC requested further detailed information regarding the current and anticipated capabilities of sites to perform multi-unit dose assessments. NEI informed the NRC in Reference 4 that the industry had elected to provide the requested details directly to the NRC staff. The requested details were to include:

- A summary of the current capability to perform multi-unit/multi-source dose assessment;
- The anticipated schedule to establish the capability on an interim and/or permanent basis;
- Due dates associated with each key schedule action or milestone (as needed);
- A description of how the implementation schedule will be tracked.

2.0 Summary of Current Multi-Unit/Multi-Source Capability

DAEC is a single unit site; therefore, multi-unit dose assessment capability is not applicable.

DAEC's dose assessment model, MIDAS, is capable of multiple source dose assessment. In addition to calculating dose from the installed plant effluent release paths, MIDAS provides the capability of calculating the source term from isotopic grab samples, field team monitoring data for unmonitored releases, or the direct input of a release rate. The model accommodates multiple release paths per time step.

Dose assessment input data is received automatically from the plant process computer, or can be input manually. The dose assessment software is installed and available on multiple laptop computers. In the absence of plant

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NextEra Energy Duane Arnold, LLC Implementation of Multi-Unit/Multi-Source Dose Assessment Capability at the Duane Arnold Energy Center (DAEC)

data from the plant process computer, the manual input method can be used via any of these laptop computers. Plant procedures provide specific guidance for the use of the MIDAS Dose Assessment Software.

3.0 Interim Measures

Based on the evaluation discussed in Section 2.0 above, no further actions are required.

4.0 Permanent Solution

Based on the evaluation discussed in Section 2.0 above, no further actions are required.

5.0 Schedule

Based on the evaluation discussed in Section 2.0 above, no further actions are required.

6.0 References

- 1) U. S. NRC's Fukushima Near-Term Task Force Report, "Recommendations for Enhancing Reactor Safety in the 21st Century," dated July 12, 2011 (ML112510271)
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