



June 27, 2013

L-2013-196
10 CFR 50.54(f)

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

RE: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
St. Lucie Nuclear Plant Response Regarding Implementation of Multi-Unit Dose Assessment Capability

References:

1. US NRC's Fukushima Near-Term Task Force Report, "Recommendations for Enhancing Reactor Safety in the 21st Century," dated July 12, 2011 (ADAMS Accession No. ML112510271).
2. Nuclear Energy Institute (NEI) letter to NRC, "Industry Implementation of Multi-unit Dose Assessment Capability," dated January 28, 2013 (ADAMS Accession No. ML13028A200).
3. NRC letter to NEI requesting additional details on multi-unit dose assessment capability dated February 27, 2013 (ADAMS Accession No. ML13029A632).
4. NEI letter to NRC, "Commitment for Implementation of Multi-Unit Dose Assessment Capability," dated March 14, 2013 (ADAMS Accession No. 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.

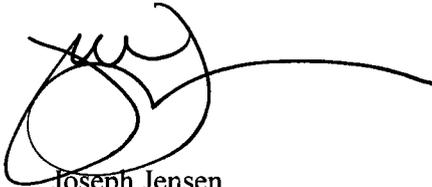
Florida Power & Light Company (FPL) St. Lucie Nuclear Plant (hereafter "St. Lucie") is providing the requested details regarding multi-unit/multi-source dose assessment. The enclosure to this letter includes discussion of the current capability to perform multi-unit/multi-source dose assessments, the interim compensatory measures for this capability (if needed), and the final permanent solution.

ADDI
NRR

This letter does not contain regulatory commitments.

If there are any questions regarding this submittal, please contact Eric Katzman, St. Lucie Licensing Manager, at (772) 467-7748.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Jensen', with a long horizontal line extending to the right.

Joseph Jensen
Site Vice President
St. Lucie Plant

Attachment

Cc: Ms. Sue Perkins-Grew, NEI

ATTACHMENT 1
St. Lucie Nuclear Plant
Implementation of Multi-Unit/Multi-Source Dose Assessment Capability

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

- a) **Manual Dose Assessment Capability** – The St. Lucie emergency preparedness procedures provide guidance for combining release information from multiple sources to perform an offsite dose assessment. In addition to the summing of release rates from a variety of points, procedural guidance is available for field monitoring teams to take dose rate readings and air samples from a downwind location and performing a calculation to determine the release rate at the points of origin onsite. From there, an offsite dose projection can be performed. Meteorological information is available from onsite and the nearby National Weather Service Offices. It should be noted that this method would remain functional for an extended loss of AC scenario, where power to plant components (fans, dampers, monitors, etc.) would not necessarily be operational.
- b) **Computerized Dose Assessment Capability** – The St. Lucie “FPL Class A Dose Assessment Software” is capable of calculating offsite dose based on inputting a release rate manually (Ci/sec). The software is located on multiple computers in a

variety of locations. The manual procedure for dose calculation listed above would be used to determine the point by point release rates (Ci/sec), which would be summed and input into the dose assessment software to obtain an estimate of offsite dose surrounding the nuclear plant.

3.0 Interim Measures

Based on the evaluation discussed in Section 2.0 above, St. Lucie Nuclear Power Plant has no need to develop interim actions.

4.0 Permanent Solution

Based on the evaluation discussed in Section 2.0 above, St. Lucie Nuclear Power Plant has no action required.

5.0 Schedule

Based on the evaluation discussed in Section 2.0 above, St. Lucie Nuclear Power Plant has no action required.

6.0 References

1. US NRC's Fukushima Near-Term Task Force Report, "Recommendations for Enhancing Reactor Safety in the 21st Century," dated July 12, 2011 (ADAMS Accession No. ML112510271).
2. NEI letter to NRC, "Industry Implementation of Multi-Unit Dose Assessment Capability," dated January 28, 2013 (ADAMS Accession No. ML13028A200).
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