

LevyCountyRAIsPEm Resource

From: Simms, Tanya
Sent: Tuesday, June 16, 2009 6:48 PM
To: LevyCountyRAIsPEm Resource
Subject: Request for Additional Information Letter No. 056 Related To SRP Section 09.05.02 for The Levy County Nuclear Plant Units 1 and 2 Combined License Application
Attachments: LEVY-RAI-LTR-056.doc

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Subject: Request for Additional Information Letter No. 056 Related To SRP Section 09.05.02 for The Levy County Nuclear Plant Units 1 and 2 Combined License Application
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June 16, 2009

Mr. Garry Miller
General Manager, Nuclear Plant Development
Progress Energy Florida, Inc.
PO Box 1551
411 Fayetteville Street Mall
Raleigh, NC 27602

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 056 RELATED TO
SRP SECTION 09.05.02 FOR THE LEVY COUNTY NUCLEAR PLANT UNITS 1
AND 2 COMBINED LICENSE APPLICATION

Dear Mr. Miller:

By letter dated July 28, 2008, as supplemented by a letter dated September 12, 2008, Progress Energy Florida, Inc. submitted its application to the U. S. Nuclear Regulatory Commission (NRC) for a combined license (COL) for two AP1000 advanced passive pressurized water reactors pursuant to 10 CFR Part 52. The NRC staff is performing a detailed review of this application to enable the staff to reach a conclusion on the safety of the proposed application.

The NRC staff has identified that additional information is needed to continue portions of the review. The staff's request for additional information (RAI) is contained in the enclosure to this letter.

To support the review schedule, you are requested to respond within 30 days of the date of this letter. If changes are needed to the final safety analysis report, the staff requests that the RAI response include the proposed wording changes.

If you have any questions or comments concerning this matter, you may contact me at 301-415-1387 or you may contact Brian Anderson, the lead project manager for the Levy County Nuclear Plant Units 1 and 2 combined license application at 301-415-9967.

Sincerely,

/RA/

Tanya Simms, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-029
52-030

Enclosure:
Request for Additional Information

CC: see next page

If you have any questions or comments concerning this matter, you may contact me at 301-415-1387 or you may contact Brian Anderson, the lead project manager for the Levy County Nuclear Plant Units 1 and 2 combined license application at 301-415-9967.

Sincerely,

/RA/

Tanya Simms, Project Manager
AP1000 Projects Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket Nos. 52-029
52-030

eRAI Tracking No. 2226
Enclosure:
Request for Additional Information

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NAME	TJackson *	TSimms*	JMartin*	BAnderson*
DATE	2/26/09	3/12/09	3/12/09	6/16/09

*Approval captured electronically in the electronic RAI system.

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Request for Additional Information No. 2226 Revision 2
Levy County, Units 1 and 2
Progress Energy Florida, Inc.
Docket No. 52-029 and 52-030
SRP Section: 09.05.02 - Communications Systems
Application Section: 9.5.2

QUESTIONS for Instrumentation, Controls and Electrical Engineering 1 (ICE1)

09.05.02-1

Provide further details on the onsite primary and secondary power sources mentioned in Levy County FSAR Section 9.5.2.2.5 and add this information to the FSAR if appropriate.

Section 9.5.2.2.5 of the FSAR states the following: "The Emergency Notification System(ENS) onsite primary power supply is backed up by automatic transfer to a highly reliable secondary power supply, which complies with the requirements of NRC Bulletin 80-15 regarding loss of offsite power to the ENS."

The staff requests further details on the identification of the secondary power source and the location of the secondary power supply as they relate to the Emergency Notification System and other emergency offsite communication methods.

09.05.02-2

Identify the other diverse sources mentioned in Levy County FSAR Section 9.5.2.2.5 that will be used to power offsite communication systems and add this detail to the FSAR.

COL Information Item 9.5-9, which is documented in AP1000 DC-FSAR Tier 2, Table 1.8-2, states:

"Combined License applicants referencing the AP1000 certified design will address interfaces to required offsite locations; this will include addressing the recommendations of BL-80-15 (Reference 21) regarding loss of the emergency notification system (ENS) due to a loss of offsite power."

Levy County FSAR Section 9.5.2.2.5 states:

"Other offsite communication systems' power supplies are from diverse sources, of which some include secondary power supplies."

1. Identify the specific offsite communication method and its associated power source, including secondary power sources, that are referred to in this quotation.
2. Describe the transfer capability to the secondary or backup power sources in the case of a Loss of Offsite Power event with consideration for BL-80-15.

09.05.02-3

Provide more details on the radio systems documented in the Levy County Emergency Plan, Section F, or explain why such information is not necessary.

COL Information Item 9.5-10 states:

“The emergency offsite communication system, including the crisis management radio system, will be addressed by the Combined License applicant.”

The applicant submitted Levy County COL Item 9.5-10 in FSAR Section 9.5.2.2.5 to satisfy this information, but there is not enough detail for the staff to make an evaluation. In particular, Levy County COL Emergency Plan(EP), Section F, Table F-1 lists the PE Low-band Radio, FDLE Radio and Portable UHF Radios. The EP only provides details on the portable UHF Radios. The table also states that the FDLE Radio is a "back-up system." 10 CFR 73.55(f) stipulates the requirements for continuous, two-way communications between local authorities and the site, as well as the requirement for non-portable communications equipment to have independent power sources so that the equipment remains operable if normal power is lost.

1. Identify the system the applicant considers the "crisis management radio system" and provide additional details.
2. For which communication system does the FDLE Radio serve as a back-up and what are its primary and secondary power sources? Will the power sources ensure operability of the system upon a loss of power?
3. Does the FDLE Radio provide, continuous, two-way communications as described in 10 CFR 73.55(f)? In addition, does this, or another radio system, provide offsite communication capability as described in 10 CFR 73.55(f)?
4. Provide details on the function and purpose of the PE-Low-Band Radio. Does this system serve as a back-up communication method or augment another system?

09.05.02-4

Provide more details on the Florida Emergency Satellite Communications System (ESATCOM) as it relates to the site, or explain why such information is not necessary. In particular, what organization or group is responsible for maintaining onsite equipment, including primary and secondary power sources?

10 CFR 73.55(f)(4) states:

"Non-portable communications equipment controlled by the licensee and required by this section shall remain operable from independent power sources in the event of the loss of normal power."

Levy County COL Emergency Plan, Section F states that the ESATCOM is operated by the State of Florida Division of Emergency Management. A satellite dish and other communications equipment necessary for operation are located onsite. It is also stated that this system will serve as a back-up communication method for emergency notifications at the Levy station.

1. If the LNP Control Room ESATCOM provides back-up communications for emergency notifications, then what are the primary and back-up power sources for this system? If credit is being taken for the ESATCOM to serve as a backup to the ENS, then the reliability of its power sources should also be similar in function.
2. What group or organization is responsible for maintaining onsite ESATCOM equipment?
3. Is this system only for satellite telephone communications or does it provide other functions?

09.05.02-5

Does the Emergency Notification System (ENS) incorporate its telephone circuits into the FTS 2001 service to provide long distance communication?

FTS 2001 is the means by which the Federal Government (NRC) provides long-distance service(dedicated telephone lines) to operating nuclear plants. This was implemented so that calls can be made independent of local telephone switches, anticipating high call volume in the event of an event at a nuclear site. There is no mention of the FTS 2001 long distance service as it relates to the ENS. Provide details on how the site will place long distance calls if the ENS is not integrated into the FTS 2001 service, or explain why such information is not necessary.

09.05.02-6

Provide additional details on the Progress Energy (PE) Voicenet System.

Levy County COL Emergency Plan, Section F, states: "The Progress Energy Voicenet System interconnects all Progress Energy plants, major substations, and main offices, and is interconnected with the area public telephone. This communication service is available throughout the Progress Energy service area. The voicenet system is wholly owned and operated by Progress Energy."

1. Does the PE Voicenet System share the same telephone circuits and/or telephone lines as the Emergency Notification System?
2. Is the applicant taking credit for the PE Voicenet System to be a back-up to ENS?

09.05.02-7

Provide additional details on how the applicant plans to implement NRC remote LAN access, as described in the Levy County COL Emergency Plan, Section F.

Page F-3 of the Levy County COL Emergency Plan Section F, states: "NRC Remote Access: Provides access to the NRC local area network. Modem access is provided in the TSCs and EOF for NRC access."

If remote LAN access is to be provided, have cyber-security concerns been considered? And if so, where are the cyber-security concerns addressed?