

## PMLevyCOLPEm Resource

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**From:** Habib, Donald  
**Sent:** Monday, December 30, 2013 11:37 AM  
**To:** Kitchen, Robert (Robert.Kitchen@duke-energy.com); Waters, David (David.Waters2@duke-energy.com); larry.taylor@duke-energy.com; Wilkins, Tillie (tillie.wilkins@pgnmail.com)  
**Subject:** Draft RAI 7353 for Levy COL Related to 10 CFR Part 37  
**Attachments:** RAI\_7353.docx

To All,

Attached is draft RAI 7353 related to 10 CFR Part 37 for the Levy Nuclear Plant Units 1 and 2 Combined License Application. If you would like to schedule a conference call to discuss these RAIs, please let me know before 5:00 PM on January 2, 2014. If no request for a conference call is received, these RAIs will be issued as Final.

Thank you,

Donald C. Habib  
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**Hearing Identifier:** Levy\_County\_COL\_Public  
**Email Number:** 1221

**Mail Envelope Properties** (E3D0DF334F617344BE38EB00C881B1B301134C911397)

**Subject:** Draft RAI 7353 for Levy COL Related to 10 CFR Part 37  
**Sent Date:** 12/30/2013 11:36:52 AM  
**Received Date:** 12/30/2013 11:36:52 AM  
**From:** Habib, Donald

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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	623	12/30/2013 11:36:52 AM
RAI_7353.docx	32808	

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

## Request for Additional Information

Issue Date:

Application Title: Levy County, Units 1 and 2 - Dockets 52-029 and 52-030

Operating Company: Progress Energy Florida, Inc.

Docket No. 52-029 and 52-030

Review Section: 01.05 - Other Regulatory Considerations

Application Section: 10 CFR Part 37 (10 CFR 37.41(a)(1))

### QUESTIONS

#### **Introduction:**

On March 19, 2013, 10 CFR Part 37 rule was published in the Federal Register. The U.S. Nuclear Regulatory Commission (NRC) amended its regulations to establish security requirements for the use and transport of category 1 and category 2 quantities of radioactive material. The NRC considers these quantities to be risk significant and, therefore, to warrant additional protection. Category 1 and category 2 thresholds are based on the quantities established by the International Atomic Energy Agency (IAEA) in its Code of Conduct on the Safety and Security of Radioactive Sources, which the NRC endorses. The objective of the 10 CFR Part 37, "Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material," rule is to provide reasonable assurance of preventing the theft or diversion of category 1 and category 2 quantities of radioactive material. The regulations also include security requirements for the transportation of irradiated reactor fuel that weighs 100 grams or less in net weight of irradiated fuel. The 10 CFR Part 37 rule affects any licensee that possesses an aggregated category 1 or category 2 quantity of radioactive material, any licensee that transports these materials using ground transportation, and any licensee that transports small quantities of irradiated reactor fuel. The 10 CFR Part 37 rule compliance date is March 19, 2014.

#### **Regulatory Basis:**

- (1) Subpart C of Title 10 CFR Part 52, § 52.79(a)(35)(i) and (ii) requires that information submitted for combined license (COL) applications include how the applicant will meet the requirements of 10 CFR Part 73. Title 10 CFR 52.6, Completeness and accuracy of information, requires information provided "shall be complete and accurate in all material respects."
- (2) 10 CFR 37.3 Scope (a) Subparts B and C of this part apply to any person who, under the regulations in this chapter, possesses or uses at any site, an aggregated category 1 or category 2 quantity of radioactive material. (b) Subpart D of this part applies to any person who, under 10 CFR Part 37: (1) Transports or delivers to a carrier for transport in a single shipment, a category 1 or category 2 quantity of radioactive material; or (2) Imports or exports a category 1 or category 2 quantity of radioactive material; the provisions only apply to the domestic portion of the transport.
- (3) 10 CFR Part 37, Subpart C, "Physical Protection Requirements During Use" Section 10 CFR 37.41 contains the following requirements: (a)(1) each licensee that possesses an aggregated category 1 or category 2 quantity of radioactive material shall establish, implement, and maintain a security program; (a)(2) an applicant for a new license and

each licensee that would become newly subject to the requirements of this subpart upon application for modification of its license shall implement the requirements of this subpart, as appropriate, before taking possession of an aggregated category 1 or category 2 quantity of radioactive material; (a)(3) any licensee that has not previously implemented the Security Orders or been subject to the provisions of subpart C shall provide written notification to the NRC regional office specified in § 30.6 of this chapter at least 90 days before aggregating radioactive material to a quantity that equals or exceeds the category 2 threshold; (b) General Performance Objective. Each licensee shall establish, implement, and maintain a security program that is designed to monitor and, without delay, detect, assess, and respond to an actual or attempted unauthorized access to category 1 or category 2 quantities of radioactive material; (c) Program features. Each licensee's security program must include the program features, as appropriate, described in §§ 37.43, 37.45, 37.47, 37.49, 37.51, 37.53, and 37.55.

NRC has provided guidance for material licensees on how to comply with 10 CFR Part 37 in the form of NUREG-2155, *Implementation guidance for 10 CFR Part 37, "Physical Protection of Category 1 and Category 2 Quantities of Radioactive Material."*

The Levy COL application, Part 8, Security Plan, Revision 4, dated June 3, 2011, describes how the applicant will establish and maintain a physical protection program that satisfies the general performance objective and requirements in 10 CFR 73.55(b). As required, this program will include a security organization, which will have as its objective to provide high assurance that activities involving special nuclear material are not inimical to the common defense and security and do not constitute an unreasonable risk to the public health and safety. As discussed above, 10 CFR Part 37, Subpart C requires a security program for the protection of aggregated quantities of category 1 or category 2 radioactive materials. Section 37.11(b) provides a specific exemption which states that any licensee's NRC-Licensed activities are exempt from the requirements of subpart B and C of Part 37 to the extent that its activities are included in a security plan required by Part 73. Since Levy will be licensed to possess aggregated quantities of Category 2 or greater radioactive material, it will be required to establish and maintain a security plan which meets the requirements of Part 37. This may be done either by modifying the Part 73 security plans or by developing a Part 37 security plan. In either case, the applicant may take credit for security measures already provided under the Part 73 plan. However, the Levy COL application does not describe how the requirements of 10 CFR Part 37 will be met. In addition, the applicant's Security Plan, Revision 4, which consists of the Physical Security Plan, Training and Qualification Plan, and Safeguards Contingency Plan, does not describe how the requirements of 10 CFR Part 37 will be met.

- (1) The applicant should provide descriptions in the COL application (e.g. FSAR Chapter 13) to address how the applicant, prior to taking possession of an aggregated category 1 or category 2 quantity of radioactive material, will implement the requirements of 10 CFR Part 37, by establishing, implementing, and maintaining a security program for the Levy Units 1 and 2.
- (2) The applicant should describe what procedures are in place (or to be developed) to evaluate the aggregated category 1 or category 2 quantities of radioactive materials, prior to the applicants receiving Part 30 byproduct material sources on site, against the pertinent quantities described in 10 CFR Part 37. The applicant should describe who will be responsible for evaluating these aggregated sources and should verify that this evaluation of aggregated sources includes both licensee owned and contractor owned sources if appropriate (e.g., if those sources may be stored in the same local location).

