



FPL

700 Universe BLVD Juno Beach, FL 33408

Director Spent Fuel Office
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001
Attn: Document Control Desk

March 4, 2009

71-0169

Florida Power and Light (FPL) would like to apply for renewal approval of the Quality Assurance Program for Radioactive Material Package No.0169 Revision 7.

FPL has an active license with the State of Florida Department of Health, Bureau of Radiation Control license number 1091-5 Expiration Date 07/31/2009. FPL maintains Certificate of Compliance for all Radioactive Material listed on there license. Attached is a copy of the FPL license with the State of Florida for your review.

Sincerely

Don Councill
Corporate Industrial Radiation Safety Officer
700 Universe Blvd.
Juno Beach, FL 33408
Office 561-691-7678
Cell 305-505-9514
E-Mail: don.councill@fpl.com

NMSO1

STATE OF FLORIDA
DEPARTMENT OF HEALTH
BUREAU OF RADIATION CONTROL

RADIOACTIVE MATERIALS LICENSE

Pursuant to Chapter 404, Florida Statutes, and Chapter 64E-5, Florida Administrative Code (F.A.C.), and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to receive, acquire, possess and transfer the radioactive material(s) designated below and to use such radioactive material(s) for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the state of Florida, Department of Health now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Name: FLORIDA POWER & LIGHT COMPANY</p>	<p>3. License Number: 1091-5</p> <p>is hereby renewed in its entirety, with reference to application dated January 15, 2004, and correspondence dated July 1, 2004</p>
<p>2. Address: Attn.: Donald L. Councilll ENG/JB 700 Universe Blvd. Juno Beach, FL 33408</p>	<p>4. Expiration Date: 07/31/2009</p> <p>5. Category: 3M(3)</p>

6. Radioactive Material (element and mass no.)	7. Chemical and/or Physical Form	8. Maximum Quantity Licensee May Possess at Any One Time
A. Americium 241 beryllium	A. Sealed source (CPN International, Inc. Model CPN-131)	A. 8 sources; not to exceed 50 millicuries each
B. Cesium 137	B. Sealed source (CPN International, Inc. Model CPN-131)	B. 8 sources; not to exceed 10 millicuries each
C. Cesium 137	C. Sealed source [AEA Technology QSA, Inc. (AEA) (formerly Amersham Corp.) Model 77302]	C. 1 source not to exceed 165 millicuries
D. Cobalt 60	D. Sealed source [AEA (formerly Amersham Corp.) Model 571 source rod]	D. 1 source not to exceed 15 millicuries
E. Cobalt 60	E. Sealed source (AEA Model A424-13)	E. No single source to exceed 300 curies; see Condition 22
F. Cobalt 60	F. Sealed source (AEA Model A424-14)	F. No single source to exceed 100 curies; see Condition 22

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6. Radioactive Material (element and mass no.)	7. Chemical and/or Physical Form	8. Maximum Quantity Licensee May Possess at Any One Time
G. Iridium 192	G. Sealed source (AEA Model A424-9)	G. No single source to exceed 100 curies; see Condition 22
H. Iridium 192	H. Sealed source (AEA Model A424-9)	H. No single source to exceed 116 curies; see Condition 22
I. Iridium 192	I. Sealed source (AEA Model A424-9)	I. No single source to exceed 150 curies; see Condition 22
J. Selenium 75	J. Sealed source (AEA Model A424-25W)	J. 4 sources; not to exceed 81 curies each
K. Radioactive material distributed to a general licensee per 645-5.206(1) and (4), F.A.C.	K. Sealed and/or contained source	K. No single source to exceed that quantity authorized for the general license



9. Authorized Use

- A. and B. To be used in CPN International, Inc. Model MC Series moisture/density gauges to measure properties of construction materials or soils
- C. For use in an AEA (formerly Amersham Corp.) Model 773 instrument calibrator for calibration of the licensee's survey meters.
- D. For use in an AEA (formerly Amersham Corp.) Model 571 instrument calibrator for calibration of the licensee's survey meters.
- E. For use in AEA Model 676, 676 A, 676 B or 676 BE radiographic exposure devices for industrial radiography, and in AEA Model 770 or 771 source changers for source exchanges and storage.
- F. For use in AEA Model 680 A, 680 AE, 680 B or 680 BE radiographic exposure devices for industrial radiography, and in AEA Model 770 or 771 source changers for source exchanges and storage.
- G. For use in AEA Model 660 A or 660 AE radiographic exposure devices for industrial radiography, and in AEA Model 650L source changers for source exchanges and storage.

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9. Authorized Use Continued:

- H. For use in AEA Model 660 B or 660 BE radiographic exposure devices for industrial radiography, and in AEA 650L source changers for source exchanges and storage.
- I. For use in AEA Model 880 Delta radiographic exposure devices for industrial radiography, and in AEA 650L source changers for source exchanges and storage.
- J. For use in AEA Model 660 A, 660 B or 880 Delta radiographic exposure devices for industrial radiography, and in AEA 650L source changers for source exchanges and storage.
- K. To be used in devices approved for receipt under general license provisions as described in Items 6, 7 and 8.

CONDITIONS

- 10. A. The authorized places of use and storage are the licensee's facilities listed below:
 - (1) St. Lucie Nuclear Plant, located at 6501 So. A1A, Hutchinson Island, Ft. Pierce, Florida; and
 - (2) Turkey Point Nuclear Plant, located at Palm Drive, 9.5 miles east of Florida City, Florida.
- B. Additional authorized locations of use and storage are at temporary job sites of the licensee throughout the state of Florida. This condition does not prohibit use in other agreement states and states under the jurisdiction of the U.S. Nuclear Regulatory Commission (NRC) under reciprocity, which has been approved by an agreement state or the NRC.
- 11. Failure to comply with the provisions of this license is a felony of the third degree pursuant to section 404.161, Florida Statutes. Also, violations may warrant an administrative fine of up to \$1,000.00 per violation per day, pursuant to section 404.162, Florida Statutes.
- 12. A. Licensed material described in Items 6, 7, 8 and 9, Subitems A and B shall be used by, or under the supervision of and in the physical presence of individuals that have successfully completed the nuclear gauge training program described in the licensee's application dated 1/15/2004 and in correspondence listed in Condition 23. Training records shall be available for inspection by the department.
- B. Licensed material described in Items 6, 7, 8 and 9, Subitems C – J shall be used by radiographers or radiographer's assistants that have successfully completed the training program described in the licensee's application dated 1/15/2004 and in correspondence listed in Condition 23. Training records shall be available for inspection by the department.

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Amendment No.: 16
Control Number: 20040128-0136

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12. C. The radiation safety officer is Don Council.
13. The licensee shall comply with the provisions of Chapter 64E-5, F.A.C., Part IX, "Notices, Instructions and Reports to Workers; Inspections" and Part III, "Standards for Protection Against Radiation."
14. The licensee shall not transfer possession or control of radioactive material, or products containing radioactive material as a contaminant except:
 - A. By transfer to a specifically licensed recipient; or
 - B. As provided otherwise by specific provision of this license pursuant to the requirements of Chapter 64E-5, F.A.C.
15. Radioactive material transported on public thoroughfares shall be packaged, prepared for shipment and transported in accordance with Title 49, Code of Federal Regulations and Chapter 64E-5, F.A.C.
16. Sealed sources containing licensed material shall not be opened.
17. Licensed material and devices listed in Items 6, 7, 8 and 9 shall not be used for underwater radiography without prior approval from the department.
18. The licensee shall conduct a physical inventory and inspection at least every 3 months to account for all sealed sources received and possessed under this license as required by sections 64E-5.428 and 64E-5.1304, F.A.C. Inventory records shall be maintained for 3 years from the date of the inventory for inspection by the department, and shall include the manufacturer's name, model and serial numbers of each sealed source, the identity of each sealed source radionuclide and its estimated activity, the location of each sealed source, the date of the inventory, and the signature of the radiation safety officer or designee.
19. A. The licensee shall assure that each sealed source is tested for leakage or contamination at least every 6 months. The licensee shall also assure that each exposure device containing depleted uranium (DU) shielding and an S-tube configuration is tested for leakage or contamination at least every 12 months. Licensees shall follow the appropriate actions as required by sections 64E-5.427 and 64E-5.1303, F.A.C.

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19. B. Leak test samples (smears) shall be taken by the licensee or other specifically licensed persons using an approved leak test kit. Analysis of the test sample shall be performed by individuals who are licensed by the department, NRC, agreement state, or licensing state to provide these services. Leak test records shall be maintained for 3 years from the date of the test for inspection by the department, and shall include the manufacturer's name, model, and serial number of each sealed source or device tested, including the device the source was stored in, the identity of each radionuclide, the estimated activity of each sealed source, the measured activity of each test sample expressed in microcuries (becquerels), the date of the test, and the signature or initials of the RSO or the RSO's designee.
20. The licensee is authorized to possess, use and transfer up to 999 kilograms (2197.8 pounds avoirdupois) of uranium contained as shielding material in the radiographic exposure devices and source changers authorized by this license.
21. The licensee is authorized to receive, possess and use sealed sources of cobalt 60, iridium 192 and selenium 75 where the activity exceeds the maximum amount of radioactivity specified in Item 8 of this license provided:
- A. Such possession does not exceed the quantity per source specified in Item 8 by more than 10 percent for cobalt 60 or 20 percent for iridium 192 or selenium 75;
 - B. Records of the licensee show that no more than the maximum amount of radioactivity per source specified in Item 8 of this license was ordered from the supplier or transferor of the radioactive material; and
 - C. Radiation levels for radiographic exposure devices and source changers do not exceed those specified in subsection 64E-5.424(4), F.A.C.
22. A. The licensee shall not possess at any one time in excess of a total of 3 devices (radiographic exposure devices and source changers) loaded with cobalt 60 sealed sources. Devices may be of any one type or any compatible combination of those authorized in Items 6, 7, 8, and 9, Subitems D – F, for cobalt 60.
- B. The licensee shall not possess at any one time in excess of a total of 12 devices (radiographic exposure devices and source changers) loaded with iridium 192 sealed sources. Devices may be of any one type or any compatible combination of those authorized in Items 6, 7, 8, and 9, Subitems G – J, for iridium 192.

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23. A. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, 8, and 9 of this license in accordance with statements, representations and procedures contained in the licensee's application dated January 15, 2004, signed by Donald L. Council, Corporate Industrial Radiation Safety Officer, and correspondence dated July 1, 2004, also signed by Donald L. Council, Corporate Industrial Radiation Safety Officer.
- B. The licensee shall comply with all applicable requirements of Chapter 64E-5, Florida Administrative Code, and these regulations shall supersede the licensee's statements in applications or correspondence unless the statements are more restrictive than the regulations.



For the Bureau of Radiation Control:

Issuance Date: JUL 20 2004

Paul E. Vause, Jr.
Environmental Manager
4052 Bald Cypress Way – Bin C21
Tallahassee, FL 32399-1741
(850) 245-4545

A party whose substantial interest is affected by this order may petition for an administrative hearing pursuant to sections 120.569 and 120.57, Florida Statutes. Such proceedings are governed by Rule 28-106, Florida Administrative Code. A petition for administrative hearing must be in writing and must be received by the Agency Clerk for the Department, within twenty-one (21) days from the receipt of this order. The address of the Agency Clerk is: Agency Clerk, 4052 Bald Cypress Way, BIN # A02, Tallahassee, Florida 32399-1703. The Agency Clerk's facsimile number is 850-410-1448. A copy of the petition should also be sent to: Bureau Chief, Bureau of Radiation Control, 4052 Bald Cypress Way, BIN # C21, Tallahassee, FL 32399-1741. The Bureau Chief's facsimile number is 850-487-0435. Mediation is not available as an alternative remedy. Your failure to submit a petition for hearing within 21 days from receipt of this order will constitute a waiver of your right to an administrative hearing, and this order shall become a "final order." Should this order become a final order, a party who is adversely affected by it is entitled to judicial review pursuant to Section 120.68, Florida Statutes. Review proceedings are governed by the Florida Rules of Appellate Procedure. Such proceedings may be commenced by filing one copy of a Notice of Appeal with the Agency Clerk of the Department of Health and a second copy, accompanied by the filing fees required by law, with the Court of Appeal in the appropriate District Court. The notice must be filed within 30 days of rendition of the final order.

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