



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION II
 101 MARIETTA STREET, N.W.
 ATLANTA, GEORGIA 30323

JAN 14 1993

Report No.: 50-302/' -01

Licensee: Florida Power Corporation
 3201 34th Street, South
 St. Petersburg, FL 33733

Docket No.: 50-302

License No.: DPR-72

Facility Name: Crystal River 3

Inspection Conducted: January 4-8, 1993

Inspector: E. D. Testa 1/13/93
 E. D. Testa P.E. Date Signed

Approved by: William A. Rankin 1/13/93
 W. H. Rankin, Chief Date Signed
 Facilities Radiation Protection Section
 Radiological Protection and Emergency Preparedness Branch
 Division of Radiation Safety and Safeguards

SUMMARY

Scope:

This routine, unannounced inspection of the licensee's radiation protection (RP) program involved the review of RP activities including: self-assessments, changes to the program, outage planning and preparation, training and qualifications, external exposure control, control of radioactive materials, and contamination surveys/monitoring and maintaining occupational exposure As Low As Reasonably Achievable (ALARA).

Results:

Based on interviews with licensee management, supervisors, personnel from station departments, and records review, the inspector found the RP program to be adequately managed. The licensee's program for occupational radiation safety was functioning to protect the health and safety of the workers and general public. RP technician technical knowledge was identified as a program strength.

REPORT DETAILS

1. Persons Contacted

Licensee Employees

- *J. Alberdi, Manager, Nuclear Plant Operations
- *P. Beard, Jr., Senior Vice President, Nuclear Operation
- *G. Cadwell, Quality Programs
- *E. Froats, Manager, Nuclear Compliance, FPC Compliance
- *R. Fuller, Senior Nuclear Licensing Engineer, FPC Licensing
- *S. Garry, Corporation H. P., FPC/SNS
- *G. Halnon, Manager, Nuclear Plant and Technical Support
- *S. Hickie, Director, Nuclear Plant Operations
- *S. Johnson, Manager, Chemistry and Radiation Protection
- J. Kessler M.D., Site Medical Doctor
- *W. Marshall, Manager, Nuclear Plant Operations
- *R. McLaughlin, Nuclear Regulatory Specialist
- *W. Rossfeld, Manager, Site Nuclear Services
- K. Spilios, Physicians Assistant
- *R. Widell, Director, Nuclear Operations Site Support
- *D. Wilder, Radiation Protection Manager

Other licensee employees contacted during the inspection included technicians, maintenance personnel, and administrative personnel.

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- *P. Holmes-Ray, Senior Resident Inspector
- *M. Hunt, Reactor Inspector
- *M. Miller, Reactor Inspector
- *G. Wiseman, Reactor Inspector

2. Changes (83750)

The inspector reviewed the licensee's RP program to determine if any major changes had occurred since the last inspection in the organization, facilities, equipment, program, procedures, or personnel. The former Manager, Quality Programs was named Manager, Chemistry and Radiation Protection in October 1992. The inspector determined that the program continues to be well managed.

No violations or deviations were identified.

3. Facility Tours (83750)

During the onsite inspection, the inspector toured selected areas of the containment, Auxiliary Building, instrument calibration facility, tool storage area, Fuel Handling Building, yard storage, and berm area.

The inspector observed facility operations and selected work activities to evaluate the implementation and effectiveness of the licensee's RP program. The inspector observed that all inspected survey meters and continuous air monitors in use within the RCA were observed to be operable, calibrated, and source checked in accordance with licensee procedures.

No violations or deviations were identified.

4. As Low As Reasonably Achievable (ALARA) (83750)

10 CFR 20.1(c) states that persons engaged in activities under licenses issued by the NRC should make every reasonable effort to maintain radiation exposures ALARA.

The inspector reviewed and discussed with licensee representatives the ALARA program implementation and initiatives and the planning for the mid-cycle outage. The licensee appears to be aggressively controlling routine doses and planning to control the upcoming mid-cycle outage doses.

No violations or deviations were identified.

5. Internal Exposure Control (83750)

10 CFR 20.103(a)(1) states that no licensee shall possess, use, or transfer licensed material in such a manner as to permit any individual in a restricted area to inhale a quantity of radioactive material in any period of one calendar quarter greater than the quantity which would result from inhalation for 40 hours per week for 13 weeks at uniform concentrations of radioactive material in air specified in Appendix B, Table 1, Column 1.

10 CFR 20.103(a)(3) requires, in part, that the licensee, as appropriate, use measurements of radioactivity in the body, measurements of radioactivity excreted from the body, or any combination of such measurements as may be necessary for timely detection and assessment of individual intakes of radioactivity by exposed individuals.

10 CFR 20.103(c)(2) permits a licensee to maintain and implement a respiratory protection program that includes, at a minimum: air sampling to identify the hazard; surveys and bioassays to evaluate the actual exposures; written procedures to select, fit and maintain respirators; written procedures regarding the supervision and training of personnel and issuance of records; and determination by a physician prior to the use of respirators, that the individual is physically able to use respiratory protective equipment.

The inspector toured the onsite medical facility and discussed respirator medical examinations and the general employee health profile at the site. No unexpected revelations were observed.

No violations or deviations were identified.

6. Surveys, Monitoring, and Control of Radioactive Material and Contamination (83750)

10 CFR 20.201(b) and 20.401 requires that surveys must be performed and records maintained of such surveys necessary to show compliance with regulatory limits.

10 CFR 20.203(f) requires each container of licensed radioactive material to bear a durable, clearly visible label identifying the contents.

During the facility tour, the inspector independently verified radiation and/or contamination levels in radwaste storage areas, tool storage areas, the Fuel Handling Building, and the Intermediate Building. The inspector noted that all containers, materials, and areas were properly labeled, posted, and/or safeguarded in accordance with radiation hazards present. The licensee promptly placed radtape on some drain lines which may have contained potentially contaminated water.

No violations or deviations were identified.

7. External Exposure Control and Personnel Dosimetry (83750)

10 CFR 20.202 requires each licensee to supply appropriate monitoring equipment to specific individuals and requires the use of such equipment. During tours of the plant, the inspector observed workers wearing appropriate personnel monitoring devices.

10 CFR 20.408(b) requires that when an individual terminates employment with the licensee, or an individual assigned to work in a licensee's facility but not employed by the licensee completes the work assignment, the licensee furnish the NRC a report of the individual's exposure to radiation and radioactive material incurred during the period of employment or work assignment, containing information recorded by the licensee pursuant to 10 CFR 20.401(a). 10 CFR 20.401(a) requires each licensee to maintain records showing the radiation exposure of all individuals for whom personnel monitoring is required under 10 CFR 20.202 of the regulations. Such records shall be kept on Form NRC-5 or equivalent.

The inspector selectively reviewed 1992 and historical termination letters for individuals and found no problems or inaccuracies with the hard copy records or the microfiche records examined.

No violations or deviations were identified.

8. Radwaste Processing and Transportation (86750)

10 CFR 71.5 (a) requires each licensee who transfers licensed material outside of the confines of its plant or other place of use, or who delivers licensed material to a carrier for transport, shall comply with the applicable requirements of the regulations appropriate to the mode of transport of the Department of Transportation (DOT) in 49 FR, Parts 170 through 189.

Pursuant to these requirements, the inspector reviewed the licensee's activities affiliated with Radioactive Waste Shipment 93-01 on January 6, 1993, to determine whether the licensee effectively packages, stores, and ships radioactive solid materials.

The inspector observed the pre-job planning meeting, the loading of a radioactive material shipment (Shipment No. 93-01) and the post job critique and the associated activities to evaluate the effectiveness of training, activities and attitudes of personnel, adequacy of procedures, etc. The shipment was a High Integrity Container (H.I.C.) containing dewatered primary bead resins. The H.I.C weighed approximately 5550 pounds and contained approximately 500 Curies in the 120 cubic foot volume. The work proceeded well; each member of the work detail handled their responsibilities in an efficient, professional manner. The technicians took a radiation survey at the surface of the truck cask (model no. 8-120) and blocked and braced it to assure compliance with regulatory requirements. Placarding of the vehicle was reviewed by the technicians after loading had been completed.

The inspector reviewed the final survey records of the shipment and concluded that the survey was properly done and well-documented. Placarding was done in accordance with DOT regulations.

The inspector selectively reviewed historical records of radwaste shipments and Licensee Event Reports (LERs). No inaccuracies or omissions were noted.

No violations or deviations were identified.

9. Exit Meeting

At the conclusion of the inspection of January 8, 1993, an exit meeting was held with those licensee representatives indicated in Paragraph 1 of this report. The inspector summarized the scope and findings of the inspection and indicated that no apparent violations or deviations were identified. The licensee did not indicate that any of the information provided to the inspector during the inspection was proprietary in nature. No dissenting comments were received from the licensee.