

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-461/82-16(DETP)

Docket No. 50-461

License No. CPPR-137

Licensee: Illinois Power Company
500 South 27th Street
Decatur, IL 62525

Facility Name: Clinton Power Station, Unit 1

Inspection At: Clinton Site, Clinton, IL

Inspection Conducted: September 13-17, 1982

Inspector: *R. A. Paul*
R. A. Paul

10/12/82

Approved By: *L. R. Greger*
L. R. Greger, Chief
Facilities Radiation
Protection Section

10/12/82

Inspection Summary

Inspection on September 13-17, 1982 (Report No. 50-461/82-16(DETP))

Areas Inspected: Routine, unannounced preoperational inspection of the radiation protection program, including: staffing, radiation protection procedures, and radiation protection facilities and monitoring equipment. The inspection involved 44 inspector-hours onsite by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

*T. F. Plunkett, Plant Manager
*L. Brodsky, Assistant Plant Manager
*D. Ruyter, Radiation Protection Shift Supervisor

*H. Livermore, Senior Resident Inspector

*Denotes those present at the exit interview.

2. General

This inspection, which began at 10:00 a.m. on September 13, 1982, was conducted to examine selected portions of the licensee's preoperational radiation protection program including health physics staffing, facilities, monitoring equipment, and written procedures, for compliance with regulatory requirements and commitments in the FSAR.

3. Staffing

Since the previous inspection, the licensee hired five additional Rad-Chem Techs - RP, and the Supervisor - Radiation Protection terminated employment. A new Supervisor - Radiation Protection has been hired and will assume his duties in the near future. The recently hired RadChem Techs - RP meet the qualification requirements for technicians specified in Section 4.5.2 of ANSI/ANS 3.1-1978.

4. Radiation Protection Procedures

The inspector reviewed the following radiation protection procedures:

OAP1002.03N	Revision 0	Radiological Controls Training
OAP1024.02S	Revision 2	Radiation Work Permit (RWP)
OAP1024.03S	Revision 2	Station Radiological Areas, Access Control, and Designations
OAP1024.04S	Revision 1	Entry into High Radiation/Extreme High Radiation Areas
OAP1024.05S	Revision 3	Personnel Dose Limits
OAP1024.06S	Revision 1	Contamination Area Ingress and Egress
OAP1024.07S	Revision 2	Personnel Monitoring
OAP1894.04N	Revision 0	MPC-Hour Accountability

Several technical and administrative problems were identified during the procedure reviews concerning the accuracy and clarity of the procedures and the requirements for adherence to specified actions contained in the procedures. This matter was discussed at the exit interview and will be reviewed during a future inspection. (461/82-16-01)

5. Access Control

The licensee plans to install two scintillation type portal monitors in the hallway outside the central alarm station. These monitors will serve as the last survey point for persons leaving radiologically controlled areas. In a discussion concerning what methods the licensee intends to use to prohibit persons bypassing the monitors, the licensee indicated several methods were being considered. The most likely option is a one-way turnstile adjacent to the portal monitors. This matter was discussed at the exit interview.

6. Facilities

The inspector toured radiation protection and chemistry facilities described in Sections 12.3.1.10.1 through 12.3.1.10.7 of the FSAR. These facilities consist of the radiation protection office, access control area, radchem laboratories, counting room, laundry, mask fitting room, whole body counting room, personnel decontamination and change rooms, and the instrument calibration room. With the exception of the location of the whole body counter and mask test fitting equipment, the licensee's radiation protection facilities appear to be as described in the above noted sections of the FSAR. The licensee plans to submit an FSAR change request when the whole body counter and mask fitting equipment locations are established. (461/82-16-02)

7. Portable Survey Meters

The licensee's survey instruments were reviewed for conformance to FSAR Table 12.5-2 for quantities, sensitivities, and ranges. Most FSAR commitments have been met. However, some commitments have not been met because the licensee is either evaluating or writing specifications for certain instruments before purchase. Also, in some cases, the licensee has reduced the number of instruments required by the FSAR by one half because they are currently planning to operate only one unit instead of two units, for which the requirements of the FSAR were written. The licensee plans to submit an FSAR change request for those cases where the required number of instruments has been reduced. These matters were discussed with the licensee and will be reviewed at a future inspection. (461/82-16-02)

8. Exit Interview

The inspector met with licensee representatives (denoted in Section 1) at the conclusion of the inspection on September 17, 1982. The inspector summarized the scope and findings of the inspection. In response to certain items discussed by the inspector, the licensee:

- a. Stated that certain radiation protection procedures (those agreed upon with the inspector) would be revised, rewritten, or deleted. (Section 4)
- b. Stated that positive controls will be implemented to ensure that persons leaving the radiologically controlled area will pass through the portal monitors. (Section 5)