U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No. 50-373/80-33

Docket No. 50-373 License No. CPPR-99

Licensee: Commonwealth Edison Company
P. O. Box 767
Chicago, IL 60690

Facility Name: LaSalle County Nuclear Power Station, Unit 1

Inspection At: LaSalle Site, Seneca, IL

Inspection Conducted: August 13-15, 1980

Inspector: D. E. Miller
Radiation Specialist
8/26/80
date signed

Approved by: W. L. Fisher, Chief
Fuel Facility Projects and
Radiation Support Section
8/26/80
date signed

Inspection Summary

Inspection on August 13-15, 1980 (Report No. 50-373/80-33)
Areas Inspected: Routine, unannounced preoperational inspection of the radiation protection and radwaste management programs, including radiation protection and chemistry procedures, organizational changes, and progress made on certain preoperational and systems demonstration testing. The inspection involved 22 inspector-hours on site by one NRC inspector.
Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

*R. Bishop, Technical Staff Supervisor
*C. Schroeder, Assistant Technical Staff Supervisor
F. Lawless, Rad/Chem Supervisor
J. Lewis, Health Physics Coordinator
L. Aldrich, Assistant Health Physicist
C. Majistro, Engineering Assistant/Nuclear Technician (CHEM)
J. Williams, Test Engineer
R. Walker, NRC Senior Resident Inspector

*Denotes those present at the exit interview.

2. General

This inspection, which began at 9:00 a.m. on August 13, 1980, was conducted to examine development of radiation protection and chemistry procedures, organization changes, and progress made on certain pre-operational and systems demonstration testing. During the inspection, the inspector toured several areas under construction.

3. Organization

Since the last inspection (50-373/80-07), the following personnel changes in the Rad/Chem organization have been made:

A. G. Myrick, former Lead Health Physicist, has transferred to Dresden Station.

B. J. Lewis has been promoted from Rad/Chem Foreman to a position titled Health Physics Coordinator. This position occupies the same organizational slot as did the Lead Health Physicist position.

C. T. Hodges, former Rad/Chem Technician, was promoted to the Rad/Chem Foreman position vacated by J. Lewis.

D. A. Kazemfar, former Assistant Health Physicist, has terminated employment with Commonwealth Edison Company.

The licensee has hired a consultant to review the Rad/Chem Department's organizational structure and staffing levels. Under consideration is separation of the radiation protection and chemistry functions within the department. Also being considered is the addition of several engineering assistant positions.

4. Qualifications

Qualifications of several Rad/Chem group personnel will be reviewed by a special lessons learned review group in early September 1980.

5. Radiation Protection Procedures

The inspector reviewed the following new or recently revised radiation protection procedures, which appear to be compatible with regulatory requirements and FSAR commitments:

LRP-1130-1, Revision 2, Radiological Signs and Labels
LRP-1150-1, Revision 1, Radiation Occurrence Reports
LRP-1150-3, Revision 1, High Monitor Alarm (ARM)
LRP-1240-3, Revision 1, Neutron Detecting Instruments
LRP-1240-4, Revision 0, Source Check and Calibration of HFM-3
LRP-1250-2, Revision 0, Exposure Review and Authorization
LRP-1310-10, Revision 3, Operation and Use of the Respirator Fit Test Facility
LRP-1410-1, Revision 0, Protective Clothing
LRP-1470-9, Revision 1, Area and Equipment Decontamination
LRP-1480-1, Revision 1, Leak Testing of Sources
LRP-1520-2, Revision 2, Receipt of Radioactive Materials
LRP-1610-2, Revision 1, Radioactive Sources

6. Preoperational Test Procedures

The inspector reviewed progress made in preoperation test procedure development and system testing for the following systems.

a. Area Radiation Monitors

Area Radiation Monitors (ARM) are currently being preoperationally tested using procedure PT-AR-101 titled Area Radiation Monitoring. Testing is nearly 50 percent complete. Radioactive source calibration is performed using a GE ARM Calibrator and a 1.5 Ci Cs-137 solid source. The ARM's are GM tube instruments which contain an adjustable current mode circuit. At LSCS, the current mode circuit is being adjusted such that it begins to function at the top of the rate meter range. Proper function is being tested by driving the meter full scale, using the 1.5 Ci Cs-137 source at close proximity to the detector, and observing the instrument response to see if it remains full scale.

Monitors having higher ranges are among those which remain to be tested. Calibration of the upper ranges will be performed at the plant's portable instrument calibration facility, which is under construction.

No significant problems were identified.

b. Effluent and Process Monitors

The inspector cursorily reviewed preoperational test procedure PT-PR-101, Effluent and Process Monitors, which is still being revised. The inspector discussed several comments with the test engineer.

7. Preoperational System Demonstrations

According to licensee personnel, the following system demonstrations are in progress, the percent completion as indicated.

SD-WE-101A	Liquid Radwaste Equipment Drain Reprocessing	- 88%
SD-WE-101B	Floor Drain Reprocessing	- 45%
SD-WE-101C	Laundry Equipment and Floor Drain Reprocessing	- 20%
SD-WE-101D	Chemical Waste	- 40%
SD-WX-101	Solid Radwaste	- 30%

During a discussion of problems encountered and progress made, the test engineer stated that cooling water to the Unit 1 Floor Drain Evaporator, Unit 2 Floor Drain Evaporator, and the Chemical Waste Evaporator systems was, by design, to be provided by the Reactor Building Closed Cooling Water (RBCCW) loops. However, the RBCCW pumping capacity was found unable to provide adequate cooling flow to the evaporator systems. According to licensee personnel, a systems change is currently being engineered which would result in cooling of the evaporator systems using service water directly, thereby bypassing the RBCCW loop, which is cooled by service water within the RBCCW heat exchangers. This change would eliminate a barrier between the contaminated evaporator systems and the circulating water. This matter has been referred by the inspector to IE Headquarters for review.

The test engineer also stated that the Stock solid radwaste packaging system is to be backfitted with some revised system components based on experience with the system at operating plants.

8. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on August 15, 1980.

The following matters were discussed:

a. The purpose and scope of the inspection.

b. Proposed change to the method of cooling of evaporators. (Paragraph 7)