

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

REGION III

Reports No. 50-373/81-09; 50-374/81-05

Docket Nos. 50-373; 50-374

Licenses No. CPPR-99; CPPR-100

Licensee: Commonwealth Edison Company  
Post Office Box 767  
Chicago, IL 60690

Facility Name: La Salle County Station, Units 1 and 2

Inspection At: La Salle Site, Seneca, IL (February 24 through February 25,  
and March 2, 1981)  
Corporate Headquarters (February 27, 1981)

Inspection Conducted: February 24 through February 27, and March 2, 1981

*M. Schumacher for*  
Inspector: M. J. Oestmann

March 11, 1981

*M. Schumacher*  
Approved By: M. Schumacher, Acting Chief  
Independent Measurements and  
Environmental Protection Section

March 11, 1981

*C. J. Paperiello*  
C. J. Paperiello, Chief  
Emergency Preparedness and  
Program Support Branch

March 13, 1981

Inspection Summary

Inspection February 24 through February 27 and March 2, 1981 (Reports  
No. 50-373/81-09; 50-374/81-05)

Areas Inspected: Routine, unannounced inspection of: (1) confirmatory  
measurements for Units 1 and 2, including quality assurance and quality  
control of analytical measurements; and (2) environmental protection  
including radiological and nonradiological environmental monitoring  
programs and status of open items from previous inspections. The  
inspection involved 31 inspector-hours onsite by one NRC inspector.  
Results: Of the areas inspected, no items of noncompliance or deviations  
were identified.

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## DETAILS

### 1. Persons Contacted

- C. McDonough, Director, Environmental Assessment, Environmental Affairs Department, CECO
- J. Golden, Administrator, Radiological Environmental Monitoring Program (REMP), Technical Services Nuclear Department (TSND), CECO
- R. Moore, Health Physicist, TSND, CECO
- \*R. Holyoak, Plant Superintendent, LSCS
- \*R. Bishop, Administrative Assistant Plant Superintendent, LSCS
- C. Schroeder, Technical Staff Supervisor, LSCS
- \*F. Lawless, Rad/Chem Supervisor, LSCS
- C. Shearer, Lead Chemist, LSCS
- J. Lewis, Health Physics Coordinator, LSCS
- L. Byrant, Health Physicist, LSCS
- C. Magistro, Nuclear Technician, LSCS
- \*P. Manning, Quality Assurance Inspector, LSCS
- \*R. Kyrouac, Senior Inspector, Quality Assurance, LSCS
- J. Ullrich, Engineering Assistant, LSCS
- J. Gutierrez, Environmental Site Coordinator, LSCS
- R. Clark, Engineering Assistant, LSCS

\*Denotes those present at the exit interview.

The inspector also interviewed several other licensee employees during the course of the inspection, including health physics and chemistry personnel, members of the construction and security force, and general office personnel.

### 2. Licensee Action on Previous Inspection Findings

- a. (Closed) Significant Inspection Finding (50-373/79-20; 80-08; 80-27; 80-38; 80-47; 50-374/79-14; 80-04; 80-24; 80-29): Preparation of management instructions to meet the five licensee commitments discussed on page 4-6 in Section 4.2 of the Final Environmental Statement - Operating License (FES-OL). The licensee has proposed to include these commitments pertaining to erosion control along the cooling lake dikes and along the banks of the Armstrong Run in the Appendix B, Environmental Technical Specifications (ETS). The Appendix B ETS are being reviewed by the Office of Nuclear Reactor Regulation. The inspector has no further questions on this item. This item is considered closed.
- b. (Open) Significant Inspection Finding (50-373/78-26): Completion of the revised Emergency Plan Implementing Procedures (LZP's). The licensee's revised Generating Stations' Emergency Plan (GSEP), specific plant annex, and LZP's are being reviewed by the Division

of Emergency Preparedness in NRC Headquarters. The licensee has completed the majority of the LZP's which are consistent with new NRC guidelines. In addition, plant construction activities have restricted implementation of some of the LZP's and placing of emergency supplies in the intended plant locations. Thus, this item remains open, pending completion of the LZP's and location of emergency supplies.

3. Implementation of the Preoperational Monitoring Program for Environmental Protection

a. Radiological Environmental Monitoring Program (REMP)

The inspector reviewed the licensee's monthly REMP reports for CY 1980 and noted no unusual trends in the analytical results except for slightly elevated concentrations in milk samples and air particulate filters during December 1980. These exceptions were due to fallout activities resulting from atmospheric weapons testing by the Peoples' Republic of China.

The licensee changed environmental contractors from Eberline Instrument Corporation to Hazleton Environmental Sciences Corporation as of February 1, 1981. The inspector reviewed the Hazleton quality assurance manual and found no significant problems.

The inspector visited six air sampling stations and thermoluminescent dosimeter stations. All stations were found operable and in good working order. One station (L-3) onsite was temporarily inaccessible owing to road grading activities in its vicinity. The licensee said that accessibility would be restored when the road construction was completed. The inspector also selectively examined log books and records of the collection of samples and calibration and maintenance of the air sampling equipment. All equipment had been calibrated on schedule and properly maintained.

The licensee's environmental contractor (Eberline) also conducted its own quality control program involving the analyses of blank, split and spiked samples for gross alpha, gross beta, strontium-89 and 90, iodine-131, gamma emitters and tritium. The contractor's program included participation in the Environmental Protection Agency's cross check program involving analysis of radionuclides in water, air particulate filters and milk samples. No problems were noted.

b. Fog Monitoring Program

The inspector examined the first year's preoperational data for evidence of fogging and the presence of rime ice taken at nine

locations on highways surrounding the cooling lake during, before and after the day shift. These data meet the commitment of the FES-OL. A report is being prepared and will be sent to the Office of Nuclear Reactor Regulation for review. The inspector also reviewed a licensee's procedure LTS-1000-16, dated September 17, 1980, used to conduct the fog monitoring program. No significant problems were identified.

c. Cooling Lake Monitoring Program

The cooling lake monitoring program described in the FES-OL was initiated in the summer of 1980. This program is required by the licensee's National Pollutant Discharge Elimination System (NPDES) permit as well as the proposed Appendix B Environmental Technical Specifications. Results will be compiled in an annual report.

d. Ground Water Monitoring

The inspector examined CY 1980 records of ground water levels in 18 observation wells around the the cooling lake. Data accumulated in accordance with the surveillance procedure (LTS-1000-3, dated February 1980) was plotted monthly as a check on possible water seepage through the cooling lake dikes. No problems were identified from review of the data or found during a tour of the cooling lake.

e. Environmental Protection

The environmental protection program implemented by the licensee in accordance with construction permit requirements was reviewed. This included review of the daily, monthly and bi-monthly check sheets for CY 1980, completed by the Environmental Site Coordinator. These records indicated that seeding of the cooling lake blowdown corridor was completed in June 1980.

The inspector also examined the licensee's monthly cooling lake dike inspection reports and the annual report of the licensee's contractor, Harza Engineering Company. Harza checked the cooling lake dike integrity during an inspection in August 1980. They identified no significant problems.

The inspector toured the cooling lake dikes and observed the heavy growth of crown vetch and other grasses on the exterior of the dikes. The licensee is closely monitoring for dike integrity and evidence of erosion.

No items of noncompliance or deviations were identified.

4. Confirmatory Measurements Program - Quality Assurance and Quality Control of Analytical Measurements

a. Nonradiological Analysis of Reactor Coolant

Selected laboratory procedures for nonradiological chemical analyses of effluents and reactor coolant were reviewed for adequacy and completeness. Procedures reviewed included analysis of low and high range of chloride, chlorine residual, boron, iron, copper and other metal analysis, laboratory instrument response checks and calibrations, operation of laboratory instruments, sampling techniques and sample preparation. The procedures were current (most were prepared in 1979 and 1980) and were technically adequate. Plant management and the onsite review committee had reviewed the procedures.

A tour of the cold chemistry laboratory and sample preparation room indicated that all laboratory instruments were operable and properly calibrated. Performance checks of instruments are made daily and calibrations are made daily, weekly, quarterly in accordance with a prescribed schedule. No technical weaknesses were observed.

No problems were identified in review of logs, checksheets, and other records of analytical results. The lead chemist reviews the results on a daily basis and management is kept informed of any unusual results.

b. Radiological Analysis of Reactor Coolant

The inspector reviewed selected sampling and radiochemical analysis procedures. The procedures were current and appeared to be technically adequate.

The radiochemical laboratory and counting room were examined and all instruments were found to be functional and operating properly. The licensee has acquired two new multichannel analyzers with GeLi detectors and is developing new software programs for operation of the analyzers. No technical weaknesses were identified in this program. The inspector also observed the sampling stations for offgas and liquid wastes. They will be tested prior to plant operation.

c. Quality Control of Laboratory Operation

The licensee has developed a quality control program with procedures for performance checks and calibrations of chemical and radiation counting equipment. The licensee has established control charts for background and check sources with each radiation

counting instrument. All calibrations of equipment appeared current. No problems were identified.

No items of noncompliance or deviations were identified.

5. Exit Interview

The inspector met with the licensee representatives (denoted in Paragraph 1) at the conclusion of this inspection on March 2, 1981. The purpose, scope and findings of the inspection were summarized. The inspector indicated that no open items remained with respect to preoperational inspections in the use of confirmatory measurements or environmental protection.