

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

Report No. 50-352/85-23

Docket No. 50-352

License No. NPF-27

Priority -

Category C

Licensee: Philadelphia Electric Company  
2301 Market Street  
Philadelphia, Pennsylvania 19101

Facility Name: Limerick Generating Station, Unit 1

Inspection At: Limerick, Pennsylvania

Inspection Conducted: April 23-26, 1985

Inspectors: J. J. Kottan  
J. J. Kottan, Radiation Laboratory Specialist

5-15-85  
Date

Approved by: W. J. Pasciak  
W. J. Pasciak, Chief, BWR Radiological  
Safety Section

5/17/85  
Date

Inspection Summary: Inspection on April 23-26, 1985-(Inspection Report  
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Areas Inspected: Routine, unannounced startup inspection of the licensee's chemistry and gaseous radwaste systems. Areas reviewed included: status of previously identified items, chemical and radiochemical tests, and gaseous radioactive waste systems. The inspection involved 20 inspector hours onsite by one NRC regionally - based inspector.

Results: No violations were identified.

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## DETAILS

### 1.0 Individuals Contacted

#### Principal Licensee Employees

- \* D. Clohecy, QA
- \* J. Sabados, Supervisory Chemist
- \* C. Endriss, Regulatory Engineer
- J. Wiley, Senior Chemist
- K. Gordon, ST/RT Senior Chemistry Technician
- J. Muntz, Test Engineer (ST Coordinator)
- M. McCabe, Test Engineer (Radwaste)
- M. Christinziano, Special Projects Physicist
- G. Murphy, Technical Support Health Physicist

The inspector also interviewed other licensee employees, including members of the chemistry and health physics staffs.

#### Other Employees

- R. Pohto, Start Up Chemist, General Electric
  - J. Murphy, Power Ascension Supervisor, Bechtel
  - \* W. Rekito, Regulatory Coordinator, Bechtel
- \* Denotes those present at the exit interview.

### 2.0 Status of Previously Identified Items

(Closed) Follow-up Item (352/84-03-03): Training of personnel for the Limerick Generating Station radiological, environmental monitoring program. The licensee has modified procedure NES 2.0, Specification of Qualifications of Personnel in Radiological Environmental Monitoring and Indoctrination and Training, to include Limerick Generating Station. A review of training records indicated that licensee personnel had been trained in the revised procedure.

(Closed) Follow-up Item (352/84-57-10): Revision of gas sampling procedure. The licensee revised procedure CH-1015, Sampling of Gases, Iodine, and Particulate at G.E. Gaseous Effluent Radiation Monitors, to incorporate actual sampling practices.

(Open) Follow-up Item (352/84-58-01): Initiation of a measurement control program with analyzed standards plotted on control charts. The licensee has written an appropriate measurement control program procedure. However, the licensee has not yet implemented the program for all measurement systems.

### 3.0 Chemical and Radiochemical Tests

The inspector reviewed licensee Surveillance Test and Startup Test results. The review indicated that the reactor coolant water quality met the Technical Specification requirements. Also the performance of the startup chemical and radiochemical tests were performed in accordance with FSAR commitments. The licensee established reactor water quality requirements that met the Technical Specification requirements during precritical tests, and demonstrated the ability to maintain the specifications during heatup and operation at temperature. The inspector reviewed the licensee's system for tracking performance of Surveillance Tests. The Surveillance Tests required by Technical Specifications are maintained on a computer file. A test engineer is responsible for ensuring that the chemistry group completes and reviews the Surveillance Tests as required.

In addition, the licensee demonstrated a computer based system for maintaining chemistry data to the inspector. The system will permit the licensee to trend various plant system chemistry parameters. The inspector noted that the data base with trending capabilities should contribute to the licensee meeting system water quality requirements. The inspector toured the chemistry laboratories and counting room and examined the analytical instrumentation used for performing surveillance and startup tests. The associated instrument QC data was also reviewed. The inspector discussed laboratory QC at length with licensee chemistry staff personnel.

The inspector had no further questions in this area. No violations were identified.

### 4.0 Gaseous Radioactive Waste Systems

The inspector reviewed the results of the licensee's surveillance and startup test in the area of gaseous radioactive waste. The review indicated that the licensee is meeting Technical Specification requirements for gaseous effluent sampling and analysis and is meeting FSAR commitments with regard to startup testing. The inspector also reviewed the results of surveillance tests performed to demonstrate compliance with the Technical Specification requirements for calculations of dose contributions from plant radioactive effluents to unrestricted areas using the methodology specified in the Offsite Dose Calculation Manual (ODCM). Chemistry group personnel are responsible for effluent sampling and analysis and entering the effluent data in the RMMS computer system used for calculating the unrestricted area dose contributions. The calculations are performed by the Health Physics Group.

Discussions with both chemistry and health physics personnel indicated that only one chemistry group person is responsible for entering the effluent data into the computer. Data is not being entered into the computer promptly. Dose calculations cannot be performed in a timely manner

because of the delay in data entry. The licensee stated that additional chemistry personnel would be trained in data entry and use of the RMMS computer system. The inspector stated that this area would be reviewed during a subsequent inspection. (352/85-23-01)

The inspector had no further questions in this area. No violations were identified.

#### 5.0 Exit Interview

The inspector met with the licensee representatives denoted in Paragraph 1 at the conclusion of the inspection on April 26, 1985. The inspector summarized the purpose and scope of the inspection and the inspection findings. At no time during the inspection did the inspector provide written material to the licensee.