

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-244/84-09

Docket No. 50-244

License No. DPR-18 Priority -- Category C

Licensee: Rochester Gas & Electric Corp.
49 East Avenue
Rochester, New York 14649

Facility Name: R. E. Ginna Power Plant

Inspection At: Ontario, New York

Inspection Conducted: May 7-11, 1984

Inspectors: Harvey Zibulsky
H. Zibulsky, Chemist

5-29-84
date

Approved by: W. J. Pasciak
W. J. Pasciak, Chief, Effluent
Radiation Protection Section

5/30/84
date

Inspection Summary: Inspection on May 7-11, 1984 (Report No. 50-244/84-09)

Areas Inspected: Routine, announced inspection of the licensee's nonradiological chemistry program. Areas reviewed included: staffing and training, quality control of analytical measurements, and analytical procedures. The inspection involved 26 hours on site by one regionally based inspector.

Results: The licensee was in compliance with NRC requirements in the areas examined during the inspection.

DETAILS

1. Individuals Contacted

- *B. Snow, Superintendent Nuclear Production
- *D. Filkins, Manager HP and Chemistry
- *B. Dahl, Plant Chemist
- *D. Filion, Radiochemist
- *W. Goodman, HP Foreman
- S. Spector, Assistant Superintendent
- A. Harhay, Supervisor Power Plant Chemistry
- B. Quinn, Corporate Health Physicist

*denotes those present at the exit interview.

The inspector also interviewed other licensee employees including members of the chemistry staff.

2. Staffing and Training

The Plant Chemist, Health Physicists, and Radiochemist report to the Health Physics and Chemistry Manager. The Chemistry Technicians report to the Plant Chemist.

The Health Physicists and Chemistry Technicians receive onsite training in HP and Chemistry procedures. A qualification sheet was maintained during the training period. As the trainee proved to have satisfactory knowledge of the specific procedure and practice, the Supervisor signed the appropriate space.

The licensee did not have a requalification program in nonradiological chemistry. The inspector advised the licensee that this will be reviewed at a subsequent inspection. Inspector Follow-Up Item (84-09-01).

No violations were identified.

3. Laboratory Quality Control

The adequacy and effectiveness of the licensee's quality control of chemical analysis was reviewed against the requirements of Amendment No. 33 to the license, Technical Specification 6.8, USNRC Regulatory Guide 1.33, Revision 2, ANSI N18.7-1976, and standard industrial practices.

The licensee's performance relative to these requirements and standards was determined by review of records, discussions with licensee personnel, and observations by the inspector.

The use of more than one concentration of the calibration standard was performed over the range of operation and was documented.

Control standards were analyzed and evaluated by the licensee. During the inspection, the licensee was plotting the standard results on charts showing the mean value and standard deviation at 2 sigma and 3 sigma. Previously, the licensee was using an arbitrary $\pm 2\%$ acceptance criteria. The use of control charts would alert the analyst and laboratory supervisors of the quality of the measurement and identify trends for the measurement system.

The licensee has an interlaboratory analyses program for nonradiological chemistry. Split samples are sent to approximately five laboratories for analytical comparison. This is usually performed quarterly.

No violations were identified.

4. Analytical Procedures

The inspector reviewed the licensee's analytical procedures for the primary and secondary chemistry. The procedures are required under Amendment No. 33 to the license and Regulatory Guide 1.33, Revision 2, referenced in Section 6.8 of the Technical Specifications. The inspector determined conformance to these procedures by review of licensee records and by observation of the analyses. The procedures for the primary chemistry that were observed were boron potentiometric titration and fluoride specific ion electrode. The procedures for the secondary chemistry steam generators that were observed were for hydrazine, phosphate, silica, ammonia, chloride and sodium. The inspector suggested that the primary coolant sample be adjusted to a pH 5.5, for the boron analysis, before the addition of mannitol. The coolant, at times, has a pH 8.

No violations were identified.

5. Exit Interview

The inspector met with the licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on May 11, 1984. The inspector summarized the purpose and scope of the inspection and the inspector findings. At no time during the inspection was any written material provided to the licensee by the inspector.