U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No.: 50-237/85024(DRS)

Docket No.: 50-237 License No.: DPR-19

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

Facility Name: Dresden Station, Unit 2

Inspection At: Dresden Site, Morris, IL

Inspection Conducted: June 21, 1985

Inspector: for I. T. Yin — 7/11/85 Date

Approved By: D. H. Danielson, Chief
Materials and Processes Section — 7/11/85 Date

Inspection Summary
Inspection on June 21, 1985 (Report No. 50-237/85024(DRS))
Areas Inspected: Announced, special inspection to review activities related to the Main Steam (MS) Transient Monitoring System. The inspection involved a total of 3 inspector-hours onsite by one NRC inspector.
Results No violations or deviations were identified.

DETAILS

1. Persons Contacted

Commonwealth Edison Company (CECo)

*C. E. Beck, Electrical Engineer, SNED
*G. G. Adams, Engineer, SNED
*W. D. Pierce, Engineer, Dresden Station
*J. Achterberg, Technical Staff Supervisor
*M. Strait, Engineer, SNED

Sargent and Lundy Engineers (S&L)

*D. E. Olson, Project Engineer

*Denotes those attending the exit meeting held at the site on June 21, 1985.

2. Licensee Action on Previously Identified Inspection Findings

(Closed) Open Item (237/85018-01): Followup on licensee actions related to inspection of strain gage (SG) instrumentation. Inspections were conducted by CECo and S&L on June 10, 1985, and SG damage due to snubber rod eye and end bracket interference was observed. No structural or snubber damage was found.

3. Review of SG Signal Indications

Since the issuance of RIII CAL 85-04 there has been six SG signal indications observed on the MS monitoring system. The first three were reviewed by the inspector and determined to be due to signal interferences and SG damage. The second three (documented in CECo letter No. 85-653 to RIII, dated June 12, 1985) were reviewed at the site during this inspection. The inspector concluded that these indications were all due to electrical and/or electronic interference.

4. Discussion of Future SG Instrumentation Improvements

The present SG instrumentation is susceptible to electric power transient and electronic signal interferences. The Vishay signal conditioner is not compatible with the Gould signal amplifier recorder and printer. During a meeting at the site, CECo stated that one of the following actions will be taken to improve the present instrumentation. This improvement would not affect the RIII CAL 85-04 presribed time limitation.

a. Replace the Gould 2800S system.

b. Replace the Vishay SG signal conditioner with a Gould signal conditioning system in addition to completing Item a. above.

c. Continue using the existing Gould 2800W and 2800S systems with the addition of a digital computer to interpret signals generated by the Vishay signal conditioner. The interpretation criteria will be provided by S&L and the software will be developed by the Nutherm Company.

d. Replace all existing units with a Megadac data acquisition system.

During the meeting, CECo committed to provide RIII with the technical information that is pertinent to any planned signal filtering and control alteration prior to the actual installation of these systems.

5. Exit Interview

An exit interview with licensee representatives was conducted on June 21, 1985, to discuss the findings. The inspector discussed the likely informational content of the inspection report with regard to documents reviewed by the inspector during the inspection. The licensee did not identify any such documents as proprietary.