

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-353/88-06

Docket No. 50-353

License No. CPPR-107 Category B

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

Facility Name: Limerick Generating Station - Unit 2

Inspection At: Limerick Pennsylvania

Inspection Conducted: February 16-19, 1988

Inspector: *R. Paolino*
Ralph J. Paolino, Senior Reactor Engineer
PSS/EB/DRS

3-10-88
date

Approved by: *C. J. Anderson* *for*
C. J. Anderson, Chief Plant Systems
Section-EB/DRS

3-10-88
date

Inspection Summary: Inspection on February 16-19 (Inspection Report No.
50-353/88-06

Areas Inspected: A routine, unannounced inspection consisting of work observations, work in progress and completed work activities and documentation relative to the installation of Instruments and Instrumentation Systems to ascertain whether these activities are being accomplished in accordance with NRC requirements and licensee SAR commitments.

Results: No violations were identified.

Details

1.0 Persons Contacted

1.1 Philadelphia Electric Company (PECo)

T. Dey, Quality Assurance Engineer
*D. Lamson, Quality Assurance Engineer
*G. Lauderback, Quality Control Supervisor
*D. A. DiPaolo, Quality Assurance Branch Head-Unit 2
G. D. Tepper, Construction Engineer
*T. J. Tucker, Quality Assurance Engineer

1.2 Bechtel Power Corporation

G. C. Bell, Project Quality Assurance Engineer
Wm. Blaze, Project Engineer
*D. Davis, Instrument Engineer
M. A. Drucker, Quality Assurance Engineer
*B. T. Foote, Construction Engineer
J. Haff, Quality Control Engineer
J. Holt, Lead Instrument Engineer
*G. C. Kelly, Lead Site Quality Assurance Engineer
*J. McVeigh, Quality Control Supervisor
*K. L. Quinter, Quality Control Engineer
A. S. Sidhu, Assistant Project Engineer
C. Sisson, Electrical Superintendent
*K. G. Stout, Project Construction Quality Control Engineer
*J. Sneeringer, Quality Assurance Engineer
J. E. Waddington, Quality Control Electrical Supervisor

1.3 U. S. Nuclear Regulatory Commission

R. Fuhrmeister, Resident Inspector
R. Gramm, Senior Resident Inspector

*Denotes personnel attending exit meeting of February 19, 1988.

2.0 Facility Tour

The inspector observed work activities in progress, completed work and plant status in several areas of the plant during a general inspection of Unit 1. The inspector examined work items for obvious defects or noncompliance with NRC requirements or licensee commitments. Particular note was taken regarding the presence of quality control inspectors and indications of quality control activities through visual evidence such as

inspection records, material certifications and acceptance tags. Specific work activities and completed work observed by the inspector included instrument orientation, tubing slope, clamp spacing and tubing bends.

No violations were identified.

3.0 Instruments (Component and Systems) - Work Observations

The inspector observed work performance, partially completed work, and completed work pertaining to the installation of instruments and associated circuits for reactor level and pressure indications, including the racks and panels containing these instruments/components, to ascertain whether the requirements of applicable specifications and procedures are being met in the areas relating to receipt inspection material qualification, routing, slope bend radius and physical separation.

Items examined for this determination included:

- Instrument Rack Nos. 20C006, 20C014, 20C015 and 20C042.
- Flow Transmitter Nos. 51-2N015D, 51-2N052D, 55-2N013, 56-2N052, 56-2N053, 56-2N056B, 56-2N055B, 56-2N055F and 56-2N050.
- Pressure Indicator No. 55-2R001, 55-2R003, 55-2R004 and 55-2R005.
- HPCI Rack No. 20C014 Drawing No. FJ-55-04-22A (connection diagram from A1 to A6).
- RHR loop D Flow drawing FJ-51-06-16A for Instrument Nos. FT-51-2N015D and FT-51-2N052D.
- Seismic Wall Mount Support No. M-830-G026-2 revision 10, sheet 2.
- Work Package Nos. JTR-43-06-30Q-B, JTR-43-06-32Q-B, JTR-41-06-30Q-A and JTR-41-06-32Q-A.
- P & ID Drawing Nos. M-49, M-51, M-55 and M-56.
- Instrument Detail Drawing No. PO-44 and PO-89.
- Plant Design Drawing No. M-318 and M-2266.

No violations were identified.

4.0 Instruments (Component and Systems) - Quality Record Review

The inspector reviewed pertinent work and quality records for the installation of instrumentation components and systems to ascertain whether the records reflect work accomplished consistent with NRC requirements and FSAR commitments in the areas of receipt inspection, component type/model, tubing material, routing, orientation, supports and acceptance.

Items examined for this determination included:

- Quality Control Instruction No. I-1.10.
- Quality Control Inspection Report Nos. FJ-51-06-16Q-5B-1, FJ-56-04-22Q-158-1 and FJ-51-06-160-60-1.
- Specification Nos. M-830, M-1552, C-1425, P-303 and G-20.

No violations were identified.

5.0 Exit Meeting

The inspector met with licensee and construction representatives (denoted in Details, paragraph 1) at the conclusion of the inspection on February 19, 1988, at the construction site.

The inspector summarized the scope of the inspection and the inspection findings. At no time during this inspection was written material given to the licensee or his representative.