

Central File

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

APR 29 1975

Commonwealth Edison Company
ATTN: Mr. R. L. Bolgar
Assistant Vice President
P.O. Box 767
Chicago, Illinois 60690

Docket No. 50-237

Gentlemen:

This refers to the inspection conducted by Mr. C. M. Erb of this office on April 8 and 11, 1975, of activities at Dresden Nuclear Power Station, Unit 2 authorized by Operating License No. DPR-19 and to the discussion of our findings with Mr. A. Roberts and others of your staff at the conclusion of the inspection.

A copy of our report of this inspection is enclosed and identifies the areas examined during the inspection. Within these areas, the inspection consisted of a selective examination of procedures and representative records, interviews with plant personnel, and observations by the inspector.

No items of noncompliance with NRC requirements were identified within the scope of this inspection.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room. If this report contains any information that you or your contractors believe to be proprietary, it is necessary that you make a written application to this office, within twenty days of your receipt of this letter, to withhold such information from public disclosure. Any such application must include a full statement of the reasons for which it is claimed that the information is proprietary, and should be prepared so the proprietary information identified in the application is contained in a separate part of the document. Unless we receive an application to withhold information or are otherwise contacted within the specified time period, the written material identified in this paragraph will be placed in the Public Document Room.



Commonwealth Edison Company

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No reply to this letter is necessary; however, should you have any questions concerning this inspection, we will be glad to discuss them with you.

Sincerely yours,

Gaston Fiorelli, Chief,
Reactor Operations Branch

Enclosure:

IE Inspection Report No.
050-237/75-10

bcc: IE Chief, FS&EB
IE:HQ (4)
Licensing (4)
Central Files
IE Files
PDR
Local PDR
NSIC
TIC
Anthony Roisman, Esq.

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

REGION III

Report of Construction Inspection

IE Inspection Report No. 050-237/75-10

Licensee: Commonwealth Edison Company
P.O. Box 767
Chicago, Illinois 60690

Dresden Nuclear Power Station, Unit 2
Morris, Illinois

License No. DPR-19
Category: C

Type of Licensee: BWR (GE) - 809 MWe

Type of Inspection: Special, Announced

Dates of Inspection: April 8 and 11, 1975

Dates of Previous Inspection: April 1-3, 1975 (M&PP)

Principal Inspector: *C.M. Erb*
C. M. Erb

4/24/75
(Date)

Accompanying Inspector: None

Other Accompanying Personnel: None

Reviewed By: *J.C. LeDoux*
for J. C. LeDoux, Senior Reactor Inspector
Construction Branch

4/28/75
(Date)

SUMMARY OF FINDINGS

Enforcement Action

None

Licensee Action on Previously Identified Enforcement Matters

Not applicable

Design Changes

Not applicable

Unusual Occurrences

None identified

Other Significant Findings

A. Current Findings

1. The inspector estimated that the core spray replacement program was about 15% completed on April 11, 1975.
2. The inspector found that, contrary to a previous IE inspection report, the two core spray penetrations will not be reused but will be replaced by new penetrations manufactured by M. W. Kellogg Company (Kellogg).

B. Unresolved Matters

None

C. Status of Previously Reported Unresolved Matters
(IE Inspection Report No. 050-237/75-08)

Clad stainless safe ends, instead of unclad stainless pipe, were furnished by General Electric Company (GE) to the licensee and were installed in both core spray loops.

Management Interview

- A. Discussions of findings were held with the following licensee personnel:

Commonwealth Edison Company (CE)

B. Stephenson, Plant Superintendent
A. Roberts, Assistant Superintendent
M. Turbak, Coordinator - Core Spray Repair

B. Matters discussed and comments, on the part of management personnel, were as follows:

1. Abnormal Occurrence Report - Nitrogen Purge Line

The inspector stated that he had examined the replacement weld and radiographic film for this repair, and the quality was acceptable to ANSI B31.1.0. The licensee stated that certain changes were being made to insure better control of temperature in this piping. (Report Details, Paragraph 1)

2. Approval of Chemical and Physical Tests for the Core Spray Program by the Licensee

The inspector stated that an unresolved item would exist until the above test results had been evaluated and approved by the licensee. The inspector stated that these records would be examined during the next IE inspection.

3. Rejection of First Piping Spools - Core Spray

The inspector noted that the first lot of steel piping was rejected, due to low notch toughness. The licensee stated that fabrication will not begin on the second lot of carbon steel, until satisfactory notch toughness properties had been determined.

REPORT DETAILS

Persons Contacted

The following individuals, in addition to those involved in the Management Interview, were contacted during this inspection.

Commonwealth Edison Company (CE)

R. Dyer, Maintenance Foreman
M. Wright, Quality Control Inspector
R. Meadows, Engineering Assistant

General Electric Company (GE)

V. Bain, Site Supervisor - Quality Control
J. Taylor, Quality Control Inspector
B. Miller, Quality Control Inspector

Results of Inspection

1. Nitrogen Purge Line Weld Repair - SA-106 to SA-106 Pipe

The licensee reported, in Abnormal Occurrence Report No. 050-237/75-14, that a crack existed in the weld between an 18" header, 1604-18" and an 8" branch line, 8503-8", in the Dresden No. 2 inerting system. This 8" branch line carries gaseous nitrogen into the 18" header, and a temperature sensor is mounted near the branch connection to monitor temperature of the nitrogen. Some time ago, a longitudinal crack developed in the branch pipe running across the weld joining the branch to the header. This crack was ground out and repaired. However, a lack of fusion was noted at this time in the branch to header weld, and this weld was completely ground out and replaced with a full penetration weld which was radiographed. The inspector examined this weld and the radiographs and found them to be acceptable. While this line is subject to very low pressure, less than 10 psi, the temperature transients can be quite high, since the liquid nitrogen may be gasifying in this length of pipe. The licensee moved the temperature sensor, so as to register minimum temperature, and improved flow control will be maintained so that minimum temperatures are not exceeded during the inerting operation.

2. Inspection of Core Spray Replacement Loops

The inspector examined several weld specifications which had been qualified by GE and were acceptable to the licensee.

WS 3021 - Buttering of carbon steel A-106, or carbon steel fittings with weld metal Type 308-L.

- WS 2004 - Carbon steel to carbon steel - consumable insert.
- WS 2015 - Carbon steel to carbon steel - open butt.
- WS 3017 - Stainless steel to stainless steel.
- WS 3019 - Stainless steel Type 308-L to stainless steel Type 316,
with accessibility restriction - 5G position.
- WS 3022 - Stainless steel to stainless steel - open butt.
- WS 3018 - Stainless steel to stainless steel - 6G position
with insert.

The material used in the piping is Heat No. B95199, produced by U. S. Steel, and supplied by Capitol Pipe and Steel Company. The elbows were supplied by Ladish Company.

Radiographs of four (4) welds were examined, and the quality of the radiography was satisfactory to ASME Standards. Twenty-eight (28) men have been qualified to the various procedures listed above.

Dresden 2 has not been operating since November 1974, and radiation levels in the work areas have decreased markedly. This fact, coupled with the beginning of a new quarter for exposure, results in a lessened problem with radiation.

As a precautionary measure, not required by Code prior to hydro test, the licensee has performed an ultrasonic test on several completed welds, with all welds being acceptable.

The inspector will make an inspection of the completed loops and also of test results from the fabricators, offsite and onsite.