



Commonwealth Edison
1400 Opus Place
Downers Grove, Illinois 60515

March 4, 1991

Dr. Thomas E. Murley, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attn: Document Control Desk

Subject: Dresden Nuclear Power Station Unit 2
Final Design Report on IGSCC Inspections
During the Fall 1990 Refueling Outage
NRC Docket No. 50-237

- References: (a) M. Richter (CECo) letter to T. Murley
(NRC), dated September 17, 1990.
- (b) M. Richter (CECo) letter to T. Murley
(NRC), dated December 17, 1990.

Dr. Murley:

Reference (a) presented the Dresden Unit 2 Fall 1990 refueling outage (D2R12) inspection plan for piping susceptible to intergranular stress corrosion cracking (IGSCC). The results of the ultrasonic examinations performed during the outage, and the design and evaluation criteria for the weld overlay repairs which were applied during the outage, were submitted by Reference (b). In Reference (b), Commonwealth Edison Company (CECo) committed to submit a final design report which would provide as-built weld overlay dimensions and the disposition of any flaw indications in the weld overlays. This letter transmits that final design report.

As reported in Reference (b), four (4) welds with new IGSCC indications were identified during the D2R12 refueling outage. Weld overlay repairs were applied to those welds during the refueling outage. Additional overlay repairs were also applied to: 1) existing leak barrier weld overlays; 2) unflawed welds for load leveling and/or contingency purposes; and 3) an existing weld overlay that had fabrication defects. The as-built dimensions and disposition of the weld overlay repairs performed during the D2R12 refueling outage, and during previous Unit 2 refueling outages, are presented in the attached design report.

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In Reference (b), CECO reported that the overlay repair for Reactor Water Cleanup weld 8-K12, which was applied during the Fall 1988 refueling outage (D2R11), was built-up to a standard overlay during the D2R12 refueling outage. However, ultrasonic measurements after surface conditioning during the D2R12 refueling outage revealed that the as-built overlay thickness of weld 8-K12 met the standard overlay criteria; therefore, no additional weld build-up was performed.

Please contact this office should further information be required.

Respectfully,

Milton H. Richter

M.H. Richter
Nuclear Licensing Administrator

Attachment: Evaluation and Disposition of IGSCC-Susceptible Weldments at Dresden Nuclear Power Station Unit 2 1990 (D2R12) Outage.

cc: A.B. Davis - Regional Administrator, Region III
B.L. Siegel - NRR Project Manager
W.H. Koo - NRR Materials and Chemical Engineering Branch
D.E. Hills - Senior Resident Inspector, Dresden
J.F. Schapker - Region III Inspector

MR:cag