



Commonwealth Edison
Dresden Nuclear Power Station
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EDE LTR #90-796

U.S. Nuclear Regulatory Commission
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Licensee Event Report #90-014-0, Docket #050237 is being submitted as required by Technical Specification 6.6, NUREG 1022 and 10 CFR 50.73(a)(2)(ii)(B).

E. D. Eenigenburg
Station Manager
Dresden Nuclear Power Station

EDE/ade

Enclosure

cc: A. Bert Davis, Regional Administrator, Region III
File/NRC
File/Numerical

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

Form Rev 2.0

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)						Page (3)		
		Year	///	Sequential Number	///	Revision Number				
Dresden Nuclear Power Station	0 5 0 0 0 2 3 7	9 0	-	0 1 4	-	0 0	0 3	OF	0 4	

TEXT Energy Industry Identification System (EIIIS) codes are identified in the text as [XX]

Detection of the above identified indications resulted in a third expansion sample that included all remaining welds in the Generic Letter 88-01, Category "D" population. This group consisted of eight 4" Recirculation welds, one Reactor Head Vent weld, two Control Rod Drive [AA] welds, four Isolation Condenser [BL] welds, and five Low Pressure Coolant Injection welds [BO]. No further IGSCC indications were identified.

Each of the IGSCC indications identified in this report were detected by Electric Power Research Institute (EPRI) qualified Ultrasonic Testing Examiners. The indications were additionally verified by a Commonwealth Edison System Materials Analysis Department Level III Ultrasonic Examiner. The Authorized Nuclear Inservice Inspector (ANII) was also notified of each indication.

C. APPARENT CAUSE OF EVENT:

This report is being submitted in accordance with 10 CFR 50.73(a)(2)(ii), which requires the reporting of any event or condition that resulted in the serious degradation of the nuclear power plant, including its principal safety barriers. The root cause of this event has been attributed to IGSCC.

D. SAFETY ANALYSIS OF EVENT:

Technical Specification Section 4.6.D requires Primary Containment sump monitoring once every four hours during power operation. If any of the indications had resulted in any significant coolant leakage during power operation the leakage would have been identified in a timely manner. Also in accordance with the Technical Specifications, Primary Containment air and water samples would be required if a total of three gpm or a one gpm increase over the previous four hours of sump monitoring had been identified. A Primary Containment inspection would have been required if leakage equaled four gpm in addition to the Unit being placed into the cold shutdown condition within 24 hours if the unidentified leakage exceeded five gpm. Since crack indications of this type tend to propagate at a relatively slow rate, the Primary Containment Sump Monitoring System would easily have detected a through-wall crack before a complete system failure would occur. Additionally, total failure of this weld is bounded by the design basis Loss of Coolant Accident analyses. For these reasons the safety significance of this event has been considered minimal.

E. CORRECTIVE ACTIONS:

Shutdown Cooling weld 16-8 and Recirculation weld 202-5A/PD1B were repaired with a "standard" weld overlay. Recirculation welds PS1A-D5 and PS2A/202-1B were repaired with "design" weld overlays. Each of these repairs meets the Generic Letter 88-01 criteria for weld overlay repairs. Additionally, each overlay was surface finished and baseline examined using the EPRI Technique for overlay ultrasonic examination. All four weld overlays were found to have sound overlay material of sufficient thickness to meet the Generic Letter 88-01 criteria for Category "E" weldments. Additionally, all Generic Letter 88-01 Category "D" welds will continue to be inspected at the frequency specified in Generic Letter 88-01.

F. PREVIOUS OCCURRENCES:

The following occurrences are similar in nature to the ones described in this report, in that they addressed rejectable IGSCC indications in piping welds.

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LER/Docket Numbers Title

- 84-019/50-237 Indications Discovered During Inservice Inspection

This report addressed rejectable IGSCC indications identified in sixteen Reactor Water Clean-Up System [CE] welds.
- 87-001/50-237 Ultrasonic Testing Indication Found on Primary Systems Piping Due to Intergranular Stress Corrosion Cracking.

This report addressed rejectable IGSCC indications identified in two Reactor Recirculation piping welds and one Reactor Water Clean-Up piping weld.

G. COMPONENT FAILURE DATA:

<u>Manufacturer</u>	<u>Nomenclature</u>	<u>Model Number</u>	<u>Mfg. Part Number</u>
N/A	N/A	N/A	N/A

An industry wide NPRDS data base search revealed no other reports of this nature. This is due to the fact that piping is not considered an NPRDS reportable component. However, IGSCC indications have been a known concern at sites of similar age as the Dresden units. Extensive inspection and repair programs have been implemented industry-wide.