

UNITED STATES NUCLEAR REGULATORY CONMISSION WASHINGTON, D. C. 20555

SEP 2 8 1982

Docket Nos.: 50-329 and 50-330

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MEMORANDUM FOR: The Atomic Safety and Licensing Board for Midland Plant, Units 1 and 2

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Thomas M. Novak, Assistant Director for Licensing Division of Licensing

SUBJECT: BOARD NOTIFICATION - WELDS IN MAIN CONTROL PANELS (BOARD NOTIFICATION NO. 82-90)

In accordance with present NRC procedures regarding Board Notifications, the enclosed information is being provided for your information as constituting new information relevant and material to safety issues. This information is generic and may have applicability to all dockets with control panels supplied by Systems Control of Iron Mountain, Michigan; Reliance Electric of Stone Mountain, Georgia; and Comsip of Linden, New Jersey.

This information notice describes a number of weld deficiencies which raise questions as to the ability of the control panels to perform their safety function during a seismic event.

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Thomas M. Novak, Assistant Director for Licensing Division of Licensing

Enclosure: As stated

cc: Board Service List

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MIDLAND

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UNITED STATES NUCLEAR REGULATORY CC AISSION WASHINGTON, D. C. 20555

AUG 2 3 1982

MEMORANDUM FOR: Darrell Eisenhut, Director of Licensing, NRR

FROM: Edward L. Jordan, Director, DEQA, IE

SUBJECT: PROPOSED BOARD NOTIFICATION DEFICIENCIES IN WELDS IN MAIN CONTROL PANELS

The enclosed IE Information Notice No. 82-34, "Welds in Main Control Panels" describes a number of weld deficiencies that have been uncovered. We believe the information is material and relevant since the deficiencies raise questions as to the ability of the control panels to perform their safety function during a seismic event.

Panels have been shipped to a large number of plants, as listed on page 2 of the Information Notice. Of the plants listed as having known deficiencies, the following are listed in Mr. Christenbury's memorandum of August 2, 1982 as having cases pending before the commission, appeal boards or licensing boards: Byron 1 and 2, Braidwood 1 and 2, Midland 1 and 2, Callaway 1, and Comanche Peak 1 and 2.

Of those plants having panels manufactured by the vendors, the following have cases pending: Wolf Creek; Seabrook; Palo Verde 1, 2, and 3; Susquehanna; Three Mile Island 1; Salem 1; Hope Creek; Perry 1 and 2; Indian Point 2; Shearon Harris 1, 2, 3, and 4; St. Lucie 2; Shoreham; Virgil Summer; Marble Hill 1 and 2; Dresden; and Clinton.

In view of the potential safety significance of this issue, we recommend that the appropriate boards be notified.

Edward U. Jordan, Director

Division of Engineering and Quality Assurance Office of Inspection and Enforcement

Enclosure: As stated

cc/w enclosure:

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- R. DeYoung, IE J. Sniezek, IE M. Williams, NRR R. Baer, IE M. Wegner, IE
- R. Haynes, Region I J. O' Reilly, Region II J. Keppler, Region III
- J. Collins, Region IV
- R. Engelken, Region V

SSINS No.: 6835 IN 82-34

UNITED STATES NUCLEAR REGULATORY COMMISSION OFFICE OF INSPECTION AND ENFORCEMENT WASHINGTON, D. C. 20555

August 20, 1982

IE Information Notice No. 82-34: WELDS IN MAIN CONTROL PANELS

Addressees:

All holders of a nuclear power reactor operating license (OL) or construction permit (CP).

Purpose:

This information notice is provided as an early notification of a potentially significant problem pertaining to welds in main control panels supplied by Systems Control of Iron Mountain, Michigan; Reliance Electric of Stone Mountain, Georgia; and Comsip of Linden, New Jersey, to a number of operating plants and construction sites. The potential safety significance of this problem is still under review by the Nuclear Regulatory Commission (NRC) staff. If NRC evaluation so indicates, further licensee action may be requested. In the interim, the staff expects licensees to review the information herein for applicability to their facilities. No specific action or response is required at this time.

Description of Circumstances:

Inspections at the vendors' facilities have disclosed numerous welding practices not in accordance with the American Welding Society (AWS) Standards and several quality assurance practices not in compliance with the vendors' procedures or NRC requirements. Among these were the following:

- Certified material test reports not required, not available, or not in accordance with AWS specifications
- 2. Changes to drawings not properly reviewed and accepted
- Welding being done by unqualified individuals without oualified procedures and using uncalibrated equipment
- Poor welds, including lack of fusion, undercuts in excess of 1/32" and weld wire remnants from 1/2" to 4" in accepted welds
- 5. Welding procedure qualification and welder qualification testing required by AWS Standards not accomplished
- 6. Essential variables as specified by AWS Standards violated
- Management oversight not accomplished for lengthy periods; lack of separate review and approval for Quality Assurance
- 8. Unidentified weld filler metal used
- Gas tungsten arc welding (GTAW) process used but not documented in place of required gas metal arc welding (GMAW) or shielded metal arc welding (SMAW) processes

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IN 82-34 August 20, 1982 Page 2 of 2

Since the inspection determined that the non-conforming practices of all three vendors are similar and widespread at each manufacturing facility, it can be assumed that any panel from these vendors may have defective welds. Although the vendors have seismically qualified similar panels, their current welding practices and resultant defective welds may affect the validity of those qualifications.

Sites at which defective welds in control panels have been identified are Byron 1 and 2, Braidwood 1 and 2, Midland 1 and 2, Vogtle 1 and 2, Callaway 1, Comanche Peak 1 and 2, and Waterford 3.

Sites which have received panels which may have defective welds are as follows: Wolf Creek; Brunswick 1 and 2; Seabrook; Palo Verde 1, 2, and 3; Susquehanna; Three Mile Island 1; Salem 1 and 2; Hope Creek; Monticello; Perry 1 and 2; Hatch 1 and 2; Indian Point 2; Shearon Harris 1, 2, 3, and 4; St. Lucie 2; Shoreham; Virgil Summer; Marble Hill 1 and 2; Dresden; LaSalle; Clinton; Beaver Valley; and Nillstone.

If you have any questions regarding this matter, please contact the administrator of the appropriate Regional Office or this office.

5/ Edward Jordan

Edward L. Jordan, Director Division of Engineering and Quality Assurance Office of Inspection and Enforcement

Technical Contact: M. S. Wegner 301-492-4511

Attachment:

A. S.

List of Recently Issued IE Information Notices

Attachment IN 82-34 August 20, 1982

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LIST OF RECENTLY ISSUED IE INFORMATION NOTICES

Information Notice No.	Subject	Date of Issue	Issued to
82-33	Control of Radiation Levels in Unrestricted Areas Adjacen to Brachytherapy Patients	8/20/82 t	All Medical Institutions
82-32	Contamination of Reactor Coolant System by Organic Cleaning Solvents	8/19/82	All power reactor facilities holding an OL or CP
82-31	Overexposure of Diver During Work in Fuel Storage Pool	7/28/82	All power reactor facilities holding an OL or CP
82-30	Loss of Thermal Sleeves in Reactor Coolant System Piping at Certain Westing- house PWR Power Plants	7/26/82	All power reactor facilities_holding an OL or CP and applicants for operating license (NTOL)
82-29	Control Rod Drive (CRD) Guide Tube Support Pin Failures at Westinghouse PWRS	7/23/82	All power reactor facilities holding an OL or CP Westinghouse- designed NSSS
82-28	Hydrogen Explosion While Grinding in the Vicinity of Drained and Open Reactor Coolant System	7/23/82	All power reactor facilities holding an OL or CP
82-26	RCIC and HPCI Turbine Exhaust Check Valve Failure	7/23/82 s	All BWR power reactor facilities holding an OL or C
82-25	Failures of Hiller Actuator upon Gradual Loss of Air Pressure	s 7/22/82	All power reactor facilities holding an OL or CP
82-24	Water Leaking from Uranium Hexafluoride Overpacks	.7/20/82	All NRC-licensed enriched uranium fuel fabrication plants

OL = Operating License CP = Construction Permit

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