

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 FACIL:50-331 Duane Arnold Energy Center, Iowa Electric Light & Pow 05000331  
 AUTH.NAME AUTHOR AFFILIATION  
 MCGAUGHY,R.W. Iowa Electric Light & Power Co.  
 RECIP.NAME RECIPIENT AFFILIATION  
 DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Discusses util comprehensive insp program for IGSCC. "Weld Summary," "Weld Overlay Design for Indications in Duane Arnold Recirculation Riser Pipe," "Weld Overlay Design...RHR Piping Sys" & "Ultrasonic Test Data" encl.

SEE REPTJ.

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Iowa Electric Light and Power Company

May 24, 1985  
NG-85-2480

Mr. Harold Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Duane Arnold Energy Center  
Docket No: 50-331  
Op. License No: DPR-49  
Results of Inspection of Stainless Steel  
Piping at the Duane Arnold Energy Center  
Reference: Letter, R.W. McGaughy (Iowa Electric) to  
H.R. Denton, dated May 3, 1985 (NG-85-1901)  
File: B-31c, SpF-118

Dear Mr. Denton:

During the current refueling outage at the Duane Arnold Energy Center (DAEC), a comprehensive program for the detection of Intergranular Stress Corrosion Cracking (IGSCC) was undertaken. As a result, eleven welds with indications were found in recirculation system piping. Attachment 1 provides a weld-by-weld summary of these indications.

Our inspection program and results were the topic of an April 22 meeting with your staff. Reference 1 provided a summary of our inspection results and a description of the IHSI and ultrasonic testing programs implemented during this outage.

The eleven welds with indications are being repaired by full structural weld overlays, in which the flaws are assumed to be fully circumferential and extend through the original pipe wall. Attachment 2 provides weld overlay design reports, including minimum weld overlay thicknesses.

Attachment 3 provides ultrasonic test data for these welds.

We currently anticipate repair activities to be completed by June 1, 1985. At that time, we will provide the results of our repair program to your office.

Should you have any questions, please contact this office.

Very truly yours,

*R.W. McGaughy*  
Richard W. McGaughy  
Manager, Nuclear Division

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Q PDR

RWM/SAR/ta\*

Attachments

cc: S. Reith  
L. Liu  
S. Tuthill  
NRC Resident Office  
M. Thadani

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