

50-331

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: Mr. George Lear

FROM: Iowa Electric Light & Pwr. Company
Cedar Rapids, Iowa
Lee Liu

DATE OF DOCUMENT
6/9/77DATE RECEIVED
6/15/77

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DESCRIPTION

RE THEIR 3-14-77 LTR

ACKNOWLEDGED

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ENCLOSURE

Consists of the results of the inspection
of the ferrite measurements of the
Feedwater Nozzle Blend Radius Cladding....

PLANT NAME: Duane Arnold

RJL 6/17/77

40 encl.

SAFETY

FOR ACTION/INFORMATION

ENVIRONMENTAL

ASSIGNED AD:

BRANCH CHIEF: (5)

PROJECT MANAGER:

LICENSING ASSISTANT:

ASSIGNED AD:

BRANCH CHIEF:

PROJECT MANAGER:

LICENSING ASSISTANT:

B. HARLESS

INTERNAL DISTRIBUTION

NRC FILES

NRC PDR

I & E (2)

OELD

GOSSICK & STAFF

HANAUER

MIPC

CASE

BOYD

SYSTEMS SAFETY

HEINEMAN

SCHROEDER

ENGINEERING

KNIGHT

BOSNAK

SIHWELL

PAWLICKI

PLANT SYSTEMS

TEDESCO

BENAROYA

LAINAS

IPPOLITO

F. ROSA

OPERATING REACTORS

STELLO

EISENHUT

SHAO

BAER

BUTLER

GRIMES

SITE SAFETY &

ENVIRON ANALYSIS

DENTON & MULLER

CRUTCHFIELD

ENVIRO TECH.

ERNST

BALLARD

YOUNGBLOOD

SITE TECH.

GAMMILL (2)

SITE ANALYSIS

VOLLMER

BUNCH

J. COLLINS

KREGER

EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: CEDAR RAPIDS IA.

TIC

NAT LAB

REG IV (J. HANCHETT)

16 CYS ACRS SENT CATEGORY 3

NSIC

771710005

MA 4

6D

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office
CEDAR RAPIDS, IOWA

LEE LIU
VICE PRESIDENT - ENGINEERING

June 9, 1977
IE-77-1136

Regulatory Docket File



Mr. George Lear, Chief
Operating Reactors, Branch 3
Division of Operating Reactors
Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Lear:

We conducted the Feedwater Nozzle Inspection at the Duane Arnold Energy Center (DAEC) in accordance with the procedures forwarded to you in our March 14, 1977, letter.

In all cases, there were no apparent defects. Ultra-sonic inspection was conducted of the Reactor Vessel Nozzle Forging Inner Radii, Reactor Vessel Nozzle Bore and Thermal Sleeve/Safe End Weld. A boroscope inspection of the Thermal Sleeve/Safe End Weld was conducted. A visual inspection of the Feedwater Sparger and the Nozzle Blend Radii was also conducted. Mr. Vince Noonan of your staff reviewed records and visually checked the boroscope resolution during this visit to the DAEC. Enclosed are results of the ferrite measurements of the Feedwater Nozzle Blend Radius Cladding.

If you have any questions, please feel free to call Mr. Ken Harrington (319-398-4129) of our staff.

Very truly yours,

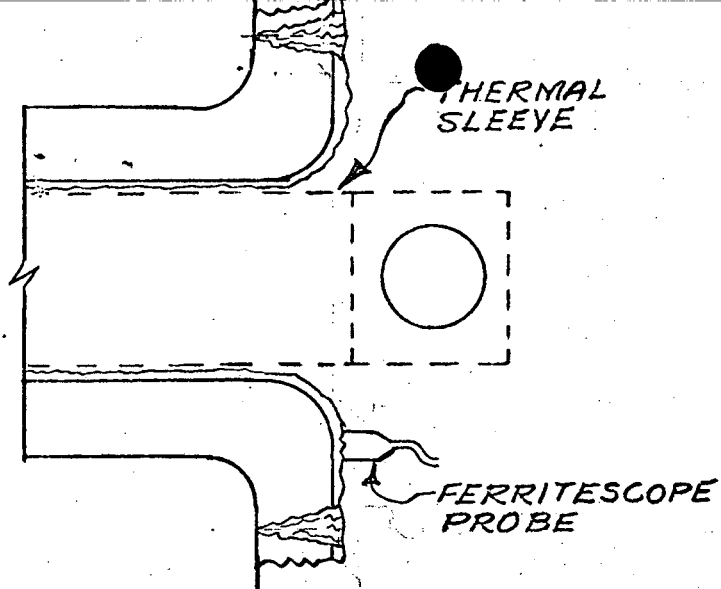
A handwritten signature in dark ink, appearing to be "Lee Liu", written over a horizontal line.

Lee Liu
Vice President - Engineering

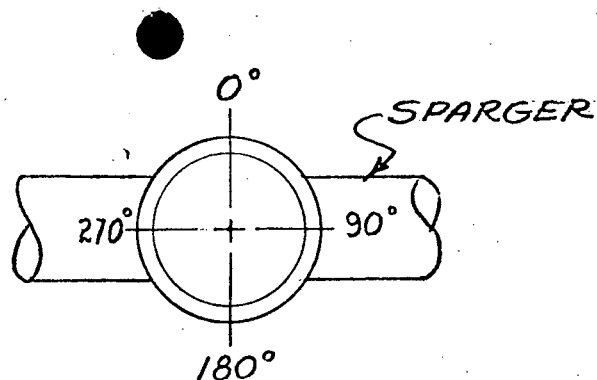
LL/KAM/hmb
Enclosure

cc: D. Arnold
R. Lowenstein
J. Wetmore
L. Root
A-107, B-11a

771710005



NOZZLE SECTION



VIEW OF TYPICAL NOZZLE

<u>NOZZLE AZIMUTH</u>	<u>MEASUREMENT LOCATION</u>	<u>FERRITESCOPE MEASUREMENTS</u>		
		<u>PROBE HORIZONTAL</u>	<u>PROBE VERTICAL</u>	<u>RANDOM MEASUREMENT OUTSIDE TANGENT</u>
① 0°	0°	5.3	4.0 & 4.5	8.0
	180°	5.0, 5.5, 5.0	2.7	9.0
	225°		2.5	
② 135°	0°	3.7	3.5	9.0
	180°	4.0	4.5	4.0
③ 225°	0°	4.0, 4.5, 5.0, 4.3	4.0, 4.5	5.0
	180°	4.0	4.0	4.0
	245°	4.5	4.5	
④ 315°	0°	4.5, 5.0	4.5, 5.0	3.5
	180°	3.5	4.5	
	225°	3.0	2.0	

DATA SHEET

DATE OF INSPECTION 4-1-77