

50-331

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TO: MR G LEAR

FROM: IOWA ELEC LIGHT & POWER CO
CEDAR RAPIDS, IOWA
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DESCRIPTION

LTR REF OUR 9-1-76 LTR.....NOTORIZED
10-6-76TRANS THE FOLLOWING.....

ENCLOSURE

DESCRIPTION OF THE DAEC RECIRCULATING PUMP
TRIP SYSTEM.....

DO NOT REMOVE

PLANT NAME: DWANE ARNOLD

ACKNOWLEDGED

SAFETY

FOR ACTION/INFORMATION

ENVIRO 10-13-76 RKR

ASSIGNED AD:		ASSIGNED AD:
<input checked="" type="checkbox"/> BRANCH CHIEF:	G. LEAR	BRANCH CHIEF:
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PETERSON	CHECK	BUTLER	
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EXTERNAL DISTRIBUTION

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<input checked="" type="checkbox"/> NSIC:	LA PDR		
ASLB:	CONSULTANTS		
<input checked="" type="checkbox"/> ACRS 16 CYS HOLDING (SENT) TO L.A.			

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office
CEDAR RAPIDS, IOWA

October 6, 1976
IE-76-1528

LEE LIU
VICE PRESIDENT - ENGINEERING

Regulatory Docket File

50 - 331

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



Dear Mr. Lear:

Your letter of September 1, 1976 requested that we provide you with: (1) A description of the recirculating pump trip system installed at the Duane Arnold Energy Center and (2) Proposed Technical Specifications for the DAEC recirculating pump trip system.

Enclosed as Attachment (1) is a description of the DAEC recirculating pump trip system.

Iowa Electric believes that the present Technical Specifications, Sections 3.2-G and 4.2-G meet the requirements for proposed Technical Specifications. We, therefore, are not proposing additional Technical Specifications.

Three originals and 37 copies of this submittal are transmitted herewith. This submittal consisting of this letter and the attachments hereto, is true and accurate to the best of my knowledge and belief.

Iowa Electric Light and Power Company

By: Larry D. Root
Lee Liu
Vice President, Engineering

LL/KAM/ms
Encls.

cc: D. Arnold
J. Newman
J. Shea (NRC)
J. Keppler (NRC)
L. Root
File A-107
A-225

Subscribed and Sworn to before me on
this 6th day of October, 1976.

Jean R. Smith
Notary Public in and for the State
of Iowa

Jean R. Smith
NOTARY PUBLIC
STATE OF IOWA
Commission Expires
September 30, 1977

10237

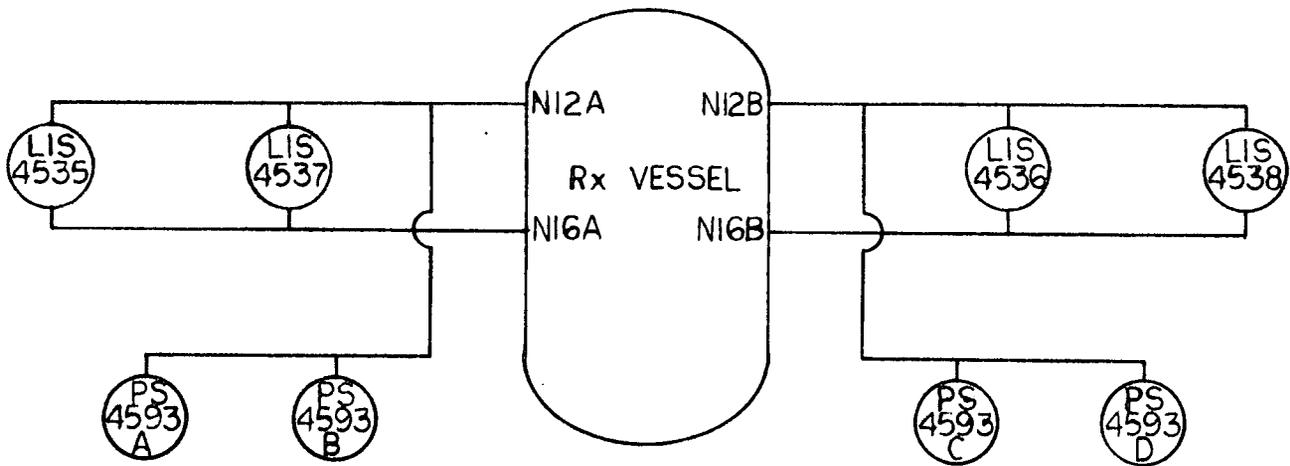
DUANE ARNOLD ENERGY CENTER
RECIRCULATION PUMP TRIP SYSTEM

The recirculation pump trip system installed at the Duane Arnold Energy Center (DAEC) is as shown in the attached sketch. Two level indicating switches and two pressure switches are provided in each of two redundant instrument loops to sense low reactor water level or high reactor pressure. A trip condition in either instrument loop will cause both Recirculation Pump MG Set Drive Motor Breakers to trip.

The instrumentation and logic meets IEEE 279 and IEEE 384 criteria for single failure and separation.

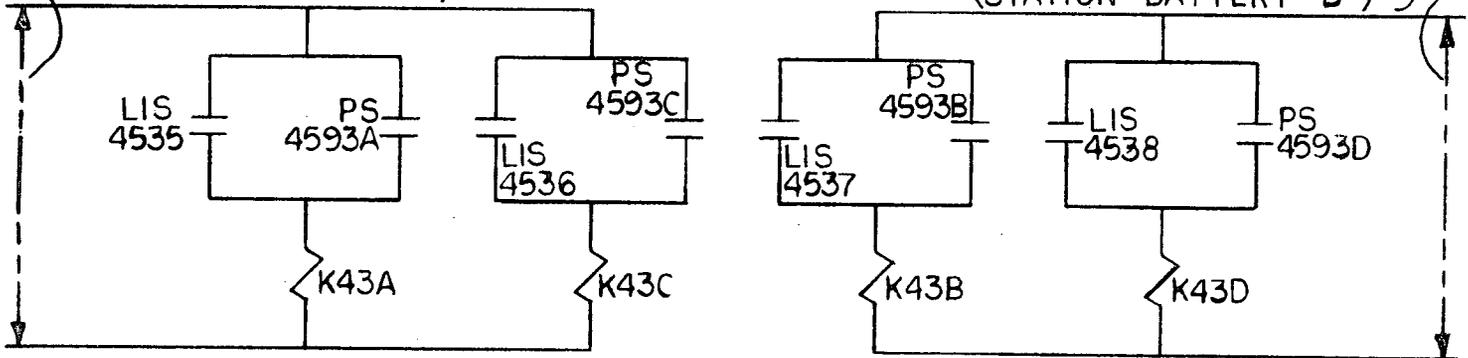
The DAEC Final Safety Analysis Report (FSAR) Figure 7.3-1 Sheet 2 (Nuclear Boiler System P&ID) shows the installation of the pressure and level instrumentation. FSAR Figure 7.4-10 Sheet 1 (Recirculation System FCD) shows these trips functionally.

Setpoints and surveillance requirements are as specified in the DAEC Technical Specifications.



125 V DC POWER
SUPPLY-DIV. I-ESSENTIAL
(BACKUP FROM
STATION BATTERY "A")

125 V DC POWER
SUPPLY-DIV. II-ESSENTIAL
(BACKUP FROM
STATION BATTERY "B")



125 V DC FUSED
SUPPLY BUS IN
DRIVE MOTOR
SWITCH GEAR

