

REGULATORY DOCKET FILE COPY

JANUARY 21 1980

Docket No. 50-331

Mr. Duane Arnold, President
Iowa Electric Light & Power Company
Post Office Box 351
Cedar Rapids, Iowa 52406

Dear Mr. Arnold:

By letter dated November 30, 1977, as supplemented by letters dated March 1, 1978 and October 13, 1978, you proposed a program for inservice inspection (ISI) and inservice testing (IST) at the Duane Arnold Energy Center (DAEC). By letter dated July 5, 1979, we issued Amendment No. 52 to Facility License No. DPR-49 for the DAEC which incorporated the ISI program.

The staff has reviewed the DAEC IST program and determined that additional information is necessary for the completion of our review. We request that the information identified in the enclosure be made available to the staff at the previously arranged meeting at DAEC on January 23 and 24, 1980. An advance copy of the enclosure has been provided to your staff.

Sincerely,

Original Signed by
T. A. Ippolito

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosure:
Request for Additional
Information

cc w/enclosure:
see next page

APP
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OFFICE	ORB#3	ORB#3				
SURNAME	T. Keever:ar	Tippolito				
DATE	1/21/80	1/21/80				8002140328

Mr. Duane Arnold
Iowa Electric Light & Power Company - 2 -

cc:

Mr. Robert Lowenstein, Esquire
Harold F. Reis, Esquire
Lowenstein, Newman, Reis and Axelrad
1025 Connecticut Avenue, N. W.
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Cedar Rapids Public Library
426 Third Avenue, S. E.
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REQUEST FOR ADDITIONAL INFORMATION

ON THE IST PROGRAM FOR

DUANE ARNOLD ENERGY CENTER

DOCKET NO. 50-331

PUMP TESTING PROGRAM - QUESTIONS AND COMMENTS

- 1 Do the river water supply pumps have an emergency power source?
If so, they must be included in the IST Program and tested per Section XI (ASME Code).
2. How is flowrate verified during the monthly test of the diesel fuel oil transfer pumps?
3. How is flowrate measured during the monthly pump tests of the standby liquid control pumps?

VALVE TESTING PROGRAM - QUESTIONS AND COMMENTS

General Questions and Comments

1. All excess flow check valves should be categorized "A/C."
2. Valves with failsafe actuators shall be tested per Section XI, article IWV-3410(e).
3. Category A and B power operated valves must be stroke timed per Section XI, article IWV-3410(c).

A. Reactor Building Closed Cooling Water

1. Provide more detailed technical information why exercising MO-4841 A and B during power operation places the plant in an unsafe mode of operation.

B. RHR Service Water System

1. Review the safety related function of check valves V-13-4 and V-13-15 to determine if they should be deleted from the IST program.
2. Review the safety related function of valves MO-1942, MO-1943A, and MO-1943B to determine if they should be categorized E.
3. Review the safety related function of the following valves to determine if they should be included in the IST program and categorized as follows:

Category B

MO-1998 A

MO-1998 B

Category E

V-13-1

V-13-2

V-13-3

V-13-23

V-13-24

V-13-25

4. Review the safety related function of the following Emergency Service Water valves to determine if they should be included in the IST program and categorized as follows:

Category B

Category E

MO-2039 A & B

V-13-34

MO-2077

V-13-35

MO-2078

CV-1956 A & B

CV-2080

CV-2081

C. Nuclear Boiler

1. Provide a more detailed technical basis why valves MO-4441 and MO-4442 cannot be exercised during power operation.
2. Provide a more detailed technical basis why valves V-14-1 and V-14-3 cannot be exercised during cold shutdown when the drywell is accessible and each refueling.
3. Where do relief valves PSV-4403 and PSV-4404 discharge to?
4. Review the safety related function of excess flow check valves 4456A and 4456B to determine if they should be included in the IST program.

D. Reactor Recirculation

1. Review the safety related function of excess flow check valves 4607, 4608, 4611, and 4612 to determine if they should be included in the IST program.

E. Control Rod Hydraulic System

1. Provide P&ID M-118 for our review at the working meeting.
2. Review the safety related function of valves SV-1840A and B to determine if they should be included in the IST program.
3. Does exercising V-17-83, V-17-96 and V-17-53 require drywell entry?
4. Review the relief request basis for valve V-17-52. Is this valve located inside containment?
5. What is the safety related function of valve V-17-54?

F. Residual Heat Removal (M-119 & M-120)

1. Review the safety related function of valves MO-1900 and MO-1901 to determine if they should be categorized "A" and tested in accordance with requirements of Section XI.
2. Review the safety related function of valve ZS-1907 to determine if it should be categorized "E".
3. Review the safety related function of the following valves to determine if they should be re-categorized A.

MO-1933

MO-1934

MO-1970

MO-1908

MO-1909

MO-1902

4. Review the safety related function of the following valves to determine if they should be included in the IST program and categorized as follows:

<u>Category C</u>		<u>Category E</u>		<u>Category B</u>	
V-19-1	(B-7)	V-19-17	(B-5)	MO-1905	(F-6)
V-19-3	(B-5)	V-19-4	(B-5)	MO-1937	(D-6)
CV-1906	(F-7)	V-19-15	(B-8)	CV-1963	(D-3)
PSV-1952	(D-3)	V-19-2	(B-7)	CV-1964	(D-3)
V-19-14	(B-8)	V-19-13	(A-5)	CV-1966	(D-3)
V-19-16	(A-6)	V-19-12	(A-7)	MO-1904	(E-6)
		V-19-10	(A-6)		
		V-19-7	(A-8)		

5. Review the safety related function of the following valves to determine if they should be re-categorized A.

MO-2000

MO-2006

MO-2007

MO-2038

6. Review the safety related function of valve ZS-2008 to determine if it should be categorized "E."
7. Review the safety function of the following valves to determine if they should be included in the IST program and categorized as follows:

Category BCategory CCategory E

MO-2029	(D-5)	V-20-1	(B-3)	V-20-2	(B-3)
MO-2031	(E-7)	V-20-3	(B-5)	V-20-4	(B-5)
MO-2003	(F-4)	CV-2002	(F-3)	V-20-7	(B-4)
CV-2033	(D-7)	PSV-2043	(E-6)	V-20-9	(C-2)
CV-2034	(D-7)	V-20-8	(B-2)	V-20-11	(B-4)
CV-2037	(E-7)	V-20-6	(B-4)	V-20-12	(B-5)
MO-2036	(E-7)			V-20-13	(B-2)
MO-2005	(G-4)			V-20-14	(B-3)
MO-2004	(F-4)				

G. Core Spray

1. Review the safety related function of valves V-21-1, V-21-2, ZS-2142 and ZS-2143 to determine if they should be categorized "E."
2. Review the safety related functions of the following valves to determine if they should be re-categorized A.

MO-2104

MO-2124

MO-2112

MO-2132

MO-2117

MO-2137

3. Review the safety related function of valves CV-2118 and CV-2138 to determine if they should be categorized A/C. Provide the specific technical basis why these valves cannot be full stroke exercised during cold shutdowns.

4. Valves V-21-7, V-21-10, V-21-9 and V-21-12 should be included in the IST program and categorized "C".
5. Review the safety related function of the following valves to determine if they should be included in the IST program and categorized E.

V-21-5
V-21-3
V-21-8
V-21-11

H. HPCI (Steam Side)

1. Provide the detailed technical basis why valves CV-2206 and SV-2219 cannot be stroke timed while exercising.
2. Review the safety related function of valve V-22-60 to determine if it should be categorized "E."
3. Review the safety related function of the following valves to determine if they should be included in the IST program and categorized as follows:

<u>Category B</u>	<u>Category C</u>	<u>Category E</u>
MO-2298 (F-4)	V-22-54 (C-4)	V-22-26 (B-3)
	V-22-55 (D-5)	V-22-63 (B-8)
	V-22-62 (B-8)	V-22-64 (B-8)
	V-22-65 (B-8)	V-22-29 (B-5)

I. HPCI (Water Side)

1. Provide a more detailed technical explanation why valve VC-2313 cannot be exercised during power operation.

2. Review the safety related function of MD-2318 and MD-2321 to determine if they should be categorized A.
3. Review the safety related function of valve V-23-1 to determine if it should be included in the IST program and categorized "C." Can this valve be full stroke exercised?

J. RCIC (Steam Side)

1. Review the safety related function of valve V-24-51 to determine if it should be categorized "E."
2. Review the safety related function of valves V-24-41 and V-24-45 to determine if they should be included in the IST program and categorized "E."
3. Review the safety related function of valves V-24-46 and V-24-47 to determine if they should be included in the IST program and categorized "C."
4. Review the safety related function of valve CV-2409 to determine if it should be included in the IST program and categorized "B."

K. RCIC (Water Side)

1. Provide a more detailed technical explanation why valve CV-2513 cannot be exercised during power operation.
2. Review the safety related function of valves MD-2510 and MD-2516 to determine if they should be categorized A.

3. Review the safety related function of the following valves to determine if they should be included in the IST program and categorized as follows:

Category C

V-25-01 (A-5)

Category E

V-25-02 (E-4)

V-25-29 (C-4)

L. Standby Liquid Control

1. Review the safety related function of valves V-26-01 and ZS-2615 to determine if they should be categorized "E."
2. Review the safety related function of V-26-09 to determine if it should be categorized A/C.
3. Valves V-26-4 and V-26-5 should be included in the IST program and categorized "C."
4. Valves V-26-2, V-26-3, V-26-5, V-26-7, V-26-16, and V-26-18 should be included in the IST program and categorized "E."
5. Review the safety related function of valves V-26-19 and V-26-21 to determine if they should be included in the IST program and categorized "E."

M. Containment Atmosphere Control System

1. Category A and B valves must be stroke timed per Section XI, article 1HW-3410(c).

2. Review the safety related function of valves CV-4327A through H (excluding E) to determine if they should be categorized "C."

N. Drywell Cooling Water

1. Provide a more detailed technical basis why valves CV-5704A&B, CV-5718A&B, and CV-5719A&B cannot be exercised during cold shutdown when the drywell is accessible and each refueling.

O. MSIV Leakage Control

1. Review the safety related function of valves MO-8401-A, B, C, and D to determine if they should be categorized A.

P. Miscellaneous Systems

1. Are there any safety related valves in the diesel fuel transfer system?
2. Are there any safety related valves in the RHR Service Water and the Emergency Service Water systems?