

**AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL**  
(TEMPORARY FORM)

CONTROL NO: 2708

FILE:

<b>FROM:</b> Iowa Electric Light & Power Company Cedar Rapids, Iowa 52406 C. W. Sanford			<b>DATE OF DOC</b> 3-21-74	<b>DATE REC'D</b> 3-30-74	<b>LTR</b> X	<b>MEMO</b>	<b>RPT</b>	<b>OTHER</b>
<b>TO:</b> Mr. DeYoung			<b>ORIG</b> 1 signed	<b>CC</b>	<b>OTHER</b>	<b>SENT AEC PDR</b> X <b>SENT LOCAL PDR</b> X		
<b>CLASS</b>	<b>UNCLASS</b>	<b>PROP INFO</b>	<b>INPUT</b>	<b>NO CYS REC'D</b> 1		<b>DOCKET NO:</b> 50-331		
	XXXXX							

**DESCRIPTION:**  
Ltr re our 1-21-74 ltr.....submitting reply to our 1-21-74 ltr concerning seals on hydraulic shock suppressors(snubbers).....

**ENCLOSURES:**

**ACKNOWLEDGED**  
**Do Not Remove**

**PLANT NAME:** Duane Arnold

**FOR ACTION/INFORMATION**

4-1-74

AB

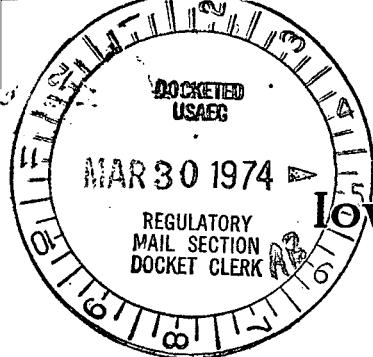
✓ BUTLER(L) W/5 Copies	SCHWENCER(L) W/ Copies	ZIEMANN(L) W/ Copies	REGAN(E) W/ Copies
CLARK(L) W/ Copies	STOLZ(L) W/ Copies	DICKER(E) W/ Copies	
GOLLER(L) W/ Copies	VASSALLO(L) W/ Copies	KNIGHTON(E) W/ Copies	W/ Copies
KNIEL(L) W/ Copies	SCHEMEL(L) W/ Copies	YOUNGBLOOD(E) W/ Copies	W/ Copies

**INTERNAL DISTRIBUTION**

✓ <u>REG FILE</u> ✓ AEC PDR OGC, ROOM P-506A MUNTZING/STAFF CASE ✓ GIAMBUSSO BOYD MOORE (L)(BWR) ✓ DEYOUNG(L)(PWR) SKOVHOLT (L) P. COLLINS DENISE <u>REG OPR</u> ✓ FILE & REGION(3) MORRIS STEELE	<u>TECH REVIEW</u> ✓ HENDRIE SCHROEDER ✓ MACCARY KNIGHT PAWLICKI SHAO STELLO HOUSTON NOVAK ROSS IPPOLITO TEDESCO LONG LAINAS BENAROYA VOLLMER	DENTON GRIMES GAMMILL KASTNER BALLARD SPANGLER  <u>ENVIRO</u> MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR  HARLESS	<u>LIC ASST</u> DIGGS (L) GEARIN (L) GOULBOURNE (L) LEE (L) ✓ MAIGRET (L) SERVICE (L) SHEPPARD (E) SMITH (L) TEETS (L) WADE (E) WILLIAMS (E) WILSON (L) S. REED (L)	<u>A/T IND</u> BRAITMAN SALTZMAN B. HURT  <u>PLANS</u> ✓ MCDONALD DUBE w/Input  <u>INPO</u> C. MILES B. KING
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**EXTERNAL DISTRIBUTION**

✓ 1 - LOCAL PDR Cedar Rapids, Iowa	(1)(2)(10)-NATIONAL LAB'S	1-PDR-SAN/LA/NY
✓ 1 - DTIE(ABERNATHY)	1-ASLBP(E/W Bldg, Rm 529)	1-GERALD LELLOUCHE
✓ 1 - NSIC(BUCHANAN)	1-W. PENNINGTON, Rm E-201 GT	BROOKHAVEN NAT. LAB
1 - ASLB(YORE/SAYRE/ WOODARD/"H" ST.	1-CONSULTANT'S	1-AGMED(Ruth Gussman)
✓ 16 - CYS ACRS <del>HOLDING</del> SENT TO LIC ASST. M. MAIGRET	NEWARK/BLUME/AGBABIAN	RM-B-127, GT.
	1-GERALD ULRIKSON...ORNL	1-ED..MULLER..F-309 GT



Reg. Cry

File Cyt

# IOWA ELECTRIC LIGHT AND POWER COMPANY

*General Office*

CEDAR RAPIDS, IOWA

March 21, 1974

IE-74-265

CHARLES W. SANDFORD  
EXECUTIVE VICE PRESIDENT

50-331

Mr. R. C. DeYoung  
Directorate of Licensing  
U. S. Atomic Energy Commission  
Washington, D.C. 20545



Re: Duane Arnold Energy Center #1  
Subject: Hydraulic Shock Suppressor Seals  
File: Q-305

Dear Mr. DeYoung:

This letter is Iowa Electric Light and Power Company's reply to your letter of January 21, 1974 regarding seals on hydraulic shock suppressors (snubbers).

As of this date, all sixty-seven (67) snubbers installed on safety related systems within the drywell and main steam tunnel have been refurbished by the manufacturer of the hydraulic unit. The seals were replaced with ethylene-propylene (EP) material. All were of Bergen-Patterson manufacture.

The EP material is now recommended by snubber manufacturers and the Nuclear Steam Supply System Supplier. Tests by independent laboratories indicate that in the possible temperature and humidity conditions of the drywell the EP seal material is superior to previously used seal material.

Iowa Electric Engineering personnel have reviewed these laboratory test results and concur that the EP material is the desirable material for the service. These test reports are available for your review.

Snubbers outside the drywell and steam tunnel were not refurbished because tests described above indicate that the environmental conditions experienced by these snubbers would not degrade the seal material.

Tests referred to above indicate the EP seal material to be superior to that identified in your letter. However, Iowa Electric proposes to add to the technical specifications a surveillance requirement for the snubbers. Proposed technical specification page attached. All hydraulic shock suppressors on safety related systems inside the drywell and main steam tunnel

2708

Mr. R. C. DeYoung

-2-

March 21, 1974

will be inspected during each refueling outage for fluid level, fluid leaks and record the piston rod extension where significant snubber movement would be expected during normal operation.

If additional information is required, do not hesitate to contact us.

Very truly yours,

*C. W. Sandford*

C. W. Sandford  
Executive Vice President

GAC:CWS:hh

cc: L. D. Root  
J. A. Wallace  
G. G. Hunt  
J. N. Ward  
H. W. Rehrauer  
J. R. Newman

## LIMITING CONDITION FOR OPERATION

Where significant deterioration of the hydraulic shock suppressor seals on safety related equipment in the drywell and main steam tunnel is evident, reactor operation will not commence until repairs have been made.

## SURVEILLANCE REQUIREMENT

All hydraulic shock suppressors on safety related systems inside the drywell and main steam tunnel will be inspected during each refueling outage for fluid level and fluid leaks and the piston rod extension will be recorded where significant snubber movement would be expected during normal operation.