

CONTROL NO: **5990**

FILE: \_\_\_\_\_

|  |                         |           |                              |                             |                   |  |     |       |
|--|-------------------------|-----------|------------------------------|-----------------------------|-------------------|--|-----|-------|
| FROM: <b>Iowa Electric Light&amp;Pwr<br/>Cedar Rapids, Iowa<br/>C W Sandford</b> |                         |           | DATE OF DOC<br><b>6-2-75</b> | DATE REC'D<br><b>6-2-75</b> | LTR<br><b>XXX</b> | TWX  | RPT | OTHER |
| TO: <b>Mr Rusche</b>   |                         |           | ORIG<br><b>one signed</b>    | CC                          | OTHER             | SENT AEC PDR <b>XX</b><br>SENT LOCAL PDR <b>XX</b> |     |       |
| CLASS  | UNCLASS<br><b>XXXXX</b> | PROP INFO | INPUT                        | NO CYS REC'D<br><b>1</b>    |                   | DOCKET NO:<br><b>50-331</b>                        |     |       |

DESCRIPTION:

**Ltr w/attch....requesting approval of operation at 100% power rating.....**

PLANT NAME: **Duane Arnold**

ENCLOSURES:

**DO NOT REMOVE**

**ACKNOWLEDGED**

FOR ACTION/INFORMATION

**6-2-75 ehf**

|                         |                            |                             |  |
|-------------------------|----------------------------|-----------------------------|--|
| BUTLER (L)<br>W/ Copies | SCHWENCER (L)<br>W/ Copies | ZIEMANN (L)<br>W/ Copies    | REGAN (E)<br>W/ Copies                 |
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INTERNAL DISTRIBUTION

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|-------------------|--------------------|---------------|-------------------|-----------------|
| <b>REG FILE</b>   | <b>TECH REVIEW</b> | <b>DENTON</b> | <b>LIC ASST.</b>  | <b>A/T IND.</b> |
| NRC PDR           | SCHROEDER          | GRIMES        | R. DIGGS (L)      | BRAITMAN        |
| OGC, ROOM P-506A  | MACCARY            | GAMMILL       | H. GEARIN (L)     | SALTZMAN        |
| GOSSICK/STAFF     | KNIGHT             | KASTNER       | E. GOULBOURNE (L) | MELTZ           |
| CASE              | PAWLICKI           | BALLARD       | P. KREUTZER (E)   |                 |
| GIAMBUSSO         | SHAO               | SPANGLER      | J. LEE (L)        | <b>PLANS</b>    |
| BOYD              | STELLO             |               | M. MAIGRET (L)    | MCDONALD        |
| MOORE (L)         | HOUSTON            | <b>ENVIRO</b> | S. REED (E)       | CHAPMAN         |
| DEYOUNG (L)       | NOVAK              | MULLER        | M. SERVICE (L)    | DUBE (Ltr)      |
| SKOVHOLT (L)      | ROSS               | DICKER        | S. SHEPPARD (L)   | E. COUPE        |
| GOLLER (L) (Ltr)  | IPPOLITO           | KNIGHTON      | M. SLATER (E)     | PETERSON        |
| P. COLLINS        | TEDESCO            | YOUNGBLOOD    | H. SMITH (L)      | HARTFIELD (2)   |
| DENISE            | J. COLLINS         | REGAN         | S. TEETS (L)      | KLECKER         |
| REG OPR           | LAINAS             | PROJECT LDR   | G. WILLIAMS (E)   | EISENHUT        |
| FILE & REGION (2) | BENAROYA           | <b>Bevan</b>  | V. WILSON (L)     | WIGGINTON       |
| MPIC              | VOLLMER            | HARLESS       | R. INGRAM (L)     |                 |
| STEELE            |                    |               |                   |                 |

EXTERNAL DISTRIBUTION

(4)

|   |                                |   |
|---|--------------------------------|---|
| 1 - LOCAL PDR <b>Cedar Rapids, Ia</b>           | 1 - NATIONAL LABS              | 1 - PDR-SAN/LA/NY <b>PM</b>             |
| 1 - TIC (ABERNATHY) (1)(2)(10)                  | 1 - W. PENNINGTON, Rm E-201 GT | 1 - BROOKHAVEN NAT LAB                  |
| 1 - NSIC (BUCHANAN)                             | 1 - CONSULTANTS                | 1 - G. ULRIKSON, ORNL                   |
| 1 - ASLB  | NEWMARK/BLUME/AGBABIAN         | 1 - AGMED (RUTH GUSSMAN)<br>Rm B-127 GT |
| 1 - Newton Anderson                             |                                | 1 - J. D. RUNKLES, Rm E-201<br>GT       |
| 14 - ACRS HOLDING/SENT<br><b>T.O.L.A. Teets</b> |                                |   |

**REGULATORY DOCKET FILE COPY**  
**IOWA ELECTRIC LIGHT AND POWER COMPANY**

*General Office*  
**CEDAR RAPIDS, IOWA**

**C. W. SANDFORD**  
VICE PRESIDENT

June 2, 1975



Mr. Ben C. Rusche, Director  
Office of Nuclear Reactor Regulation

**50-331**

Dear Mr. Rusche:

Pursuant to Paragraph III of the Order for Modification of License dated May 21, 1975, we request that you approve operation of the Duane Arnold Energy Center at core power levels up to 100% rated power, and core flow rates up to 100% of design flow rate for a short period of time for the conduct of tests. In these tests, we will conduct measurements of changes in neutron flux as a function of power and flow with the facility in-core instrumentation. The measurements will be made at various flow and power levels, generally as shown in the attachment hereto.

After completion of the tests, we plan to shut the facility down for appropriate inspections and repairs (if necessary) of core internals. We expect this program will be completed within 30 days.

The tests will be initiated within 24 hours after issuance of your approval and will be completed within 72 hours after their commencement. Copies of the measurements will be furnished to NRC promptly.

The proposed tests are important because they will enable us to correlate in-core measurements with the observations to be made of in-core conditions following reactor shutdown. The measurements will also enable us to correlate in-core measurements after any needed insertion of plugs in the core support plate flow holes during the shutdown period.

We believe that the planned tests at levels up to rated power and flow will not involve undue risk to public health and safety, because the in-core readings to-date do not indicate significant damage, if any, to core internals. We will maintain close surveillance of the in-core instrumentation during the conduct of the tests. Experience in other plants and familiar engineering principles demonstrate that these conditions will not change appreciably during the brief period planned for the tests.

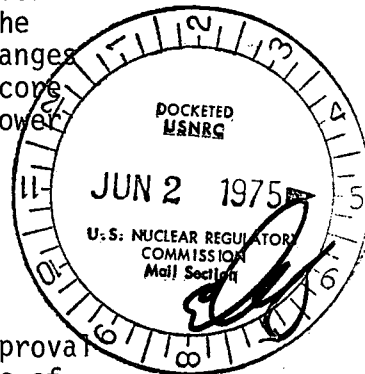
We plan to submit shortly further data describing our planned program for inspection of core internals and any necessary repairs.

Sincerely yours,

  
C. W. Sanford  
Executive Vice President

Attachment:  
As Stated

cc: D. Arnold  
R. Lowenstein



**5990**

Attachment A

|                          | P S D        | T I P       | LPRM Traces  |
|--------------------------|--------------|-------------|--------------|
| *50% Flow/100% Load Line | 30 Locations | 5 Strings   | 10 Locations |
| *70% Flow/   "   "   "   | "   "        | "   "       | "   "        |
| *80% Flow/   "   "   "   | "   "        | "   "       | "   "        |
| *90% Flow/   "   "   "   | All LPRM's   | all strings | 20 Locations |
| *100% Flow/100% Power    | All LPRM's   | all strings | "   "        |
| **100% Flow/100% Power   | "   "        | "   "       | "   "        |

\*B2 Rod Pattern (Peaked Low)

\*\*Saddle Shaped

