

MONTHLY REPORTS (FOR GRAY BOOK PREPARATION)

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 9604

FILE: MONTHLY REPORT FILE

FROM: Iowa Electric Light & Power Palo, Iowa G.G. Hunt		DATE OF DOC 9-5-75	DATE REC'D 9-10-75	LTR	TWX	RPT XX	OTHER
TO:		ORIG	CC	OTHER		SENT AEC PDR XXX	
CLASS		UNCLASS	PROP INFO	INPUT		DOCKET NO:	
XXX		1 Signed		NO CYS REC'D		50-331	

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

Monthly Report for August 1975
Plant & Component Operability & Availability
This Report to be used in preparing Gray Book
by Plans & Operations.

NUMBER OF COPIES REC'D: 1

PLANT NAME: Duane Arnold

FOR ACTION/INFORMATION

SAB 9-11-75

BUTLER (L) W/ 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	LEAR (L) W/ Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	SPELS W/ Copies
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	MIPC/PE W/4 Copies

ACKNOWLEDGE
DO NOT REMOVE

INTERNAL DISTRIBUTION

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

EXTERNAL DISTRIBUTION

1 - LOCAL PDR Cedar Rapids, Iowa	1 - NATIONAL LABS	1 - PDR-SAN/LA/NY
1 - TIC (ABERNATHY) (1)(2)(10)	1 - W. PENNINGTON, Rm E-201 GT	1 - BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1 - CONSULTANTS	1 - G. ULRICKSON, ORNL
1 - ASLB	NEWMARK/BLUME/AGBABIAN	1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
1 - Newton Anderson		1 - J. D. RUNKLES, Rm E-201 GT

Regulatory

File Cy

IOWA ELECTRIC LIGHT AND POWER COMPANY

General Office

CEDAR RAPIDS, IOWA
DUANE ARNOLD ENERGY CENTER
PALO, IOWA
SEPTEMBER 5, 1975
DAEC - 75 - 349

Office of Plans and Schedules
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20545

SUBJECT: Monthly Plant and Component
Operability and Availability
Report

FILE: A-118d

Gentlemen:

In accordance with Regulatory Guide 1.16, please find enclosed
the Monthly Plant and Component Operability and Availability Report for
August 1975.

Very truly yours,



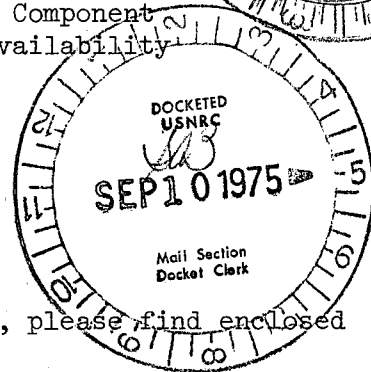
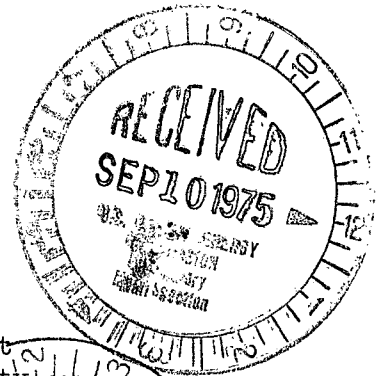
G. G. Hunt
Chief Engineer
Duane Arnold Energy Center

DLW/GGH/mg

Enclosure

cc: C. W. Sandford
J. A. Wallace
L. D. Root
W. D. Bryant
D. L. Wilson
E. L. Hammond
B. R. York
D. A. Moen
K. M. Haas
Dennis Murdock
George Toyne

Directorate Of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137



9604

UNIT Duane ArnoldDATE September 5, 1975COMPLETED BY D. Wilson 519-851-5611DOCKET NO. 50-331

OPERATING STATUS

1. REPORTING PERIOD: 0001, 750801 THROUGH 2400, 750831
HOURS IN REPORTING PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWth) 1593 MAX. DEPENDABLE CAPACITY (MWe-NET) 515
3. LOWEST POWER LEVEL TO WHICH SPECIFICALLY RESTRICTED (IF ANY) (MWe-NET): 430 (approximately)
4. REASONS FOR RESTRICTION (IF ANY): NRC directive as the result of potential in-core instrument tube vibration.

	THIS REPORTING PERIOD	YR TO DATE	CUMULATIVE TO DATE
5. HOURS REACTOR WAS CRITICAL.....	<u>723</u>	<u>4417.7</u>	<u>9172.5</u>
6. REACTOR RESERVE SHUTDOWN HOURS..	<u>0</u>	<u>0</u>	<u>0</u>
7. HOURS GENERATOR ON LINE.....	<u>713</u>	<u>4177.7</u>	<u>8089.7</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0</u>	<u>0</u>	<u>0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>675,648</u>	<u>4,255,584</u>	<u>8,798,304</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	<u>224,200</u>	<u>1,404,247</u>	<u>2,908,997</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>209,227</u>	<u>1,303,720.1</u>	<u>2,705,777.1</u>
12. REACTOR AVAILABILITY FACTOR (1).....	<u>97</u>	<u>72</u>	<u>72</u>
13. UNIT AVAILABILITY FACTOR (2).....	<u>96</u>	<u>69</u>	<u>69</u>
14. UNIT CAPACITY FACTOR (3).....	<u>55</u>	<u>42</u>	<u>42</u>
15. UNIT FORCED OUTAGE RATE (4).....	<u>4</u>	<u>13</u>	<u>13</u>
16. SHUTDOWNS SCHEDULED TO BEGIN IN NEXT 6 MONTHS (STATE TYPE, DATE, AND DURATION OF EACH):			
17. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:			
18. UNITS IN TEST STATUS (PRIOR TO COMMERCIAL OPERATION) REPORT THE FOLLOWING:			

DATE LAST
FORECASTDATE
ACHIEVED

INITIAL CRITICALITY
INITIAL ELECTRICAL
POWER GENERATION
COMMERCIAL OPERATION

February, 1975

- (1) REACTOR AVAILABILITY FACTOR = $\frac{\text{HOURS REACTOR WAS CRITICAL}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (2) UNIT AVAILABILITY FACTOR = $\frac{\text{HOURS GENERATOR ON LINE}}{\text{HOURS IN REPORTING PERIOD}} \times 100$
- (3) UNIT CAPACITY FACTOR = $\frac{\text{NET ELECTRICAL POWER GENERATED}}{\text{MAX. DEPENDABLE CAPACITY (MWe-NET)} \times \text{HOURS IN REPORTING PERIOD}}$
- (4) UNIT FORCED OUTAGE RATE = $\frac{\text{FORCED OUTAGE HOURS}}{\text{HOURS GENERATOR ON LINE} + \text{FORCED OUTAGE HOURS}} \times 100$

(1) REASON
 A-Equipment Failure (Explain)
 B-Maint. or Test
 C-Refueling
 D-Regulatory Restriction
 E-Operator Training and
 License Examination
 F-Administrative
 G-Operational Error (Explain)
 H-Other (Explain)

(2) METHOD
 1-Manual
 2-Manual Scram
 3-Automatic Scram

UNIT SHUTDOWNS

DOCKET NO. 50-331

UNIT NAME Duane Arnold Energy Center

DATE September 5, 1975

COMPLETED BY D. Wilson 319-851-5611

REPORT MONTH August 1975

NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
14	750802	F	16.75	A	3	Mechanical Failure of condensate pump caused feedwater pumps to trip on low suction. Rx scram resulted from low level.
15	750814	F	14.25	A	3	Electrical arc in 480 volt Emergency Service water pump breaker caused instrumentation voltage transient and Rx scram.

SUMMARY: Reactor operation continued in load following mode.

DOCKET NO. 50-331

UNIT Duane Arnold Energy Center

DATE September 5, 1975

COMPLETED BY D. Wilson 319-851-5611

AVERAGE DAILY UNIT POWER LEVEL

MONTH August 1975

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
1	<u>416.2</u>
2	<u>206.9</u>
3	<u>109.7</u>
4	<u>260.6</u>
5	<u>279.4</u>
6	<u>282.8</u>
7	<u>290.5</u>
8	<u>286.6</u>
9	<u>300.5</u>
10	<u>288.0</u>
11	<u>289.6</u>
12	<u>299.5</u>
13	<u>305.3</u>
14	<u>132.6</u>
15	<u>241.7</u>
16	<u>300.7</u>

AVERAGE DAILY POWER LEVEL

DAY	(MWe-net)
17	<u>301.2</u>
18	<u>284.7</u>
19	<u>265.4</u>
20	<u>292.2</u>
21	<u>302.4</u>
22	<u>303.2</u>
23	<u>300.7</u>
24	<u>303.9</u>
25	<u>297.3</u>
26	<u>302.3</u>
27	<u>297.1</u>
28	<u>301.9</u>
29	<u>303.0</u>
30	<u>290.6</u>
31	<u>281.2</u>