MONTHLY REPORTS (FOR GRAY BOOK PREPARATY

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL (TEMPORARY FORM)

CONTROL NO:__

FILE MONTHLY REPORT FILE

Cedar Rapids, Ia C C G Hunt ORIG One signed CC OTHER SENT AEC PDR XX SENT LOCAL PDR XX CLASS UNCLASS PROP INFO INPUT NO CYS REC'D DOCKET NO: 1 50-331 DESCRIPTION: Let trans the following: Monthly Report for December 1976 Plant & Component Operability & Availability This Report to be used in preparing Gray Bod by Plans & Operations. NUMBER OF COPIES REC'D: PLANT NAME: Duane Arnold FOR ACTION/INFORMATION 1-14-76 ehf BUTLER (L) W/ Copies W/ Co			***			. •	FILE	MONTH	LY REPORT FIL
TO: IGE ORIG ONE Signed ORIG ONE Signed CC OTHER SENT AEC PDR XX- SENT LOCAL PDR XX DESCRIPTION: Let trans the following: DESCRIPTION: Let trans the following: DESCRIPTION: Let trans the following: FOR ACTION/INFORMATION PLANT NAME: DUANCY DESCRIPTION DO NOT DEMOVE PLANT NAME: DUANCY DEMOVE PLANT NAME: DUANCH PREPARIC DESCRIPTION: DEMOUSE OF COPIES REC'D: 1 PLANT NAME: DUANCAN (E) PLANT NAME: DUANCY DEMOVE PLANT NAME: DUANCAN (E) DEMOUSE NAME NAME NAME NAME NAME NAME NAME NAM	FROM:			•	l	LTR	TWX	RPT	OTHER
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W/ Copies KNIEL (L) PURPLE (L) W/ Copies MIPC/PE W/ Copies M/ Co						Pics			
W/ Copies W/ Copies W/4 Copies W/4 Copies	W/ Cop	oies	W/ Copies	W/ Copies	W/ Co				. :
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NRC PDR SCHROEDER GRIMES R. DIGGS (L) BRAITMAN OGC, ROOM P-506A MACCARY GAMMILL H. GEARIN (L) SALTZMAN MCCASE PAWLICKI BALLARD P. KREUTZER (E) PAWLICKI BALLARD P. KREUTZER (E) M. RUSIBROOK (L) MELTZ MOORE (L) HOUSTON ENVIRO 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 DENISE J. COLLINS REGAN S. TEETS (L) KLECKER BEGOPR LAINAS PROJECT LDR G. WILLIAMS (E) EISENHUT WIGGINTON M. SLATER (E) PROJECT LDR G. WILLIAMS (E) EISENHUT WIGGINTON M. DUNGAN (E) EXTERNAL DISTRIBUTION STEELE EXTERNAL DISTRIBUTION 1 - LOCAL PDR Cedax Papids J.					ISTRIBUTION			•	<u> </u>
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DEYOUNG (L) NOVAK MULLER M. SERVICE (L) SKOVHOLT (L) ROSS DICKER S. SHEPPARD (L) E. COUPE PETERSON M. SLATER (E) PETERSON M. SERVICE (L) DUBE (Ltr) E. COUPE PETERSON M. SLATER (E) PETERSON HARTFIELD (2) DENISE J. COLLINS REG OPR FILE & REGION (2) BENAROYA VOLLMER VOLLMER FILE & REGION (2) BENAROYA V. WILSON (L) WIGGINTON WIGGINTON FILE & REGION WIGGINTON 1 - PDR-SAN/LA/NY 1 - PDR-SAN/LA/NY 1 - BROOKHAVEN NAT LAB 1 - G. ULRIKSON, ORNL NEWMARK/BLUME/AGBABIAN Rm B-127 GT 1 - J. D. RUNKLES, Rm E-201		(1.)		ENVIDO			.) -		
DICKER S. SHEPPARD (L) GOLLER (L) (Ltr) IPPOLITO KNIGHTON M. SLATER (E) P. COLLINS TEDESCO YOUNGBLOOD H. SMITH (L) DENISE J. COLLINS REGAN S. TEETS (L) REG OPR LAINAS PROJECT LDR G. WILLIAMS (E) VOLLMER VOLLMER FILESS R. INGRAM (L) M. DUNCAN (E) EXTERNAL DISTRIBUTION 1 - LOCAL PDR Cedar Paper (S) 1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS 1 - PDR-SAN/LA/NY 1 - NSIC (BUCHANAN) 1 - W. PENNINGTON, Rm E-201 GT 1 - BROOKHAVEN NAT LAB 1 - Newton Anderson NEWMARK/BLUME/AGBABIAN 1 - AGMED (RUTH GUSSMAN) Rm B-127 GT 1 - J. D. RUNKLES, Rm E-201									
P. COLLINS TEDESCO POUNGBLOOD H. SMITH (L) PREGAN S. TEETS (L) PROJECT LDR G. WILLIAMS (E) PROJECT LDR V. WILSON (L) WIGGINTON HARLESS R. INGRAM (L) M.DUNCAN (E) EXTERNAL DISTRIBUTION 1 - LOCAL PDR Cedar Rapids (Total) 1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS (Total) 1 - NSIC (BUCHANAN) 1 - W. PENNINGTON, Rm E-201 GT 1 - ASLB 1 - CONSULTANTS 1 - MEWMARK/BLUME/AGBABIAN NEWMARK/BLUME/AGBABIAN Rm B-127 GT 1 - J. D. RUNKLES, Rm E-201	SKOVHO)LT (L)							
DENISE J. COLLINS REGAN S. TEETS (L) KLECKER PROJECT LDR G. WILLIAMS (E) EISENHUT V. WILSON (L) WIGGINTON STEELE EXTERNAL DISTRIBUTION 1 - LOCAL PDR Cedar Papeds J. J. 1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS									
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FILE & REGION (2) BENAROYA VOLLMER HARLESS R. INGRAM (L) M.DUNCAN (E) EXTERNAL DISTRIBUTION 1 - LOCAL PDR Cedar Pape (5) [Inc.] 1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS [Inc.] 1 - NSIC (BUCHANAN) 1 - W. PENNINGTON, Rm E-201 GT 1 - ASLB 1 - CONSULTANTS 1 - G. ULRIKSON, ORNL NEWMARK/BLUME/AGBABIAN Rm B-127 GT 1 - J. D. RUNKLES, Rm E-201		₹							
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EXTERNAL DISTRIBUTION 1 - LOCAL PDR Cedar Rapids Dal 1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS			VOLLMER	HARLESS					
1 - LOCAL PDR Cedar Paped 5 Day 1 - TIC (ABERNATHY) (1)(2)(10) - NATIONAL LABS	STEELE				M. DUNCAN	(E)			
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1 - ASLB 1 - CONSULTANTS 1 - G. ULRIKSON, ORNL 1 - Newton Anderson NEWMARK/BLUME/AGBABIAN 1 - AGMED (RUTH GUSSMAN) - ACRS HOLDING/SENT 1 - J. D. RUNKLES, Rm E-201									
1 – Newton Anderson NEWMARK/BLUME/AGBABIAN 1 – AGMED (RUTH GUSSMAN) – ACRS HOLDING/SENT 1 – AGMED (RUTH GUSSMAN) Rm B-127 GT 1 – J. D. RUNKLES, Rm E-201									
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1 - J. D. RUNKLES, Rm E-201				INE VAINTAULY DE	OWE/AGDADIAN				
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				0			GT		

IOWA ELECTRIC LIGHT AND POWER COMPANY

DUANE ARNOLD ENERGY CENTER

P. O. Box 351

Cedar Rapids, Iowa 52406

January 8, 1976

50 - 331

DAEC - 75 - 481

Director, Office of Inspection and Enforcement U. S. Nuclear Regulatory Commission Washington D.C. 20555

Subject: Monthly Operating Report

File: A-118d

REGULATORY DECLARATE

Dear Sirs:

Please find enclosed 10 copies of the Duane Arnold Energy Center Monthly Operating Report for December 1975. The report has been prepared in accordance with the requirements of Regulatory Guide 1.16 and distribution has been made in accordance with Regulatory Guide 10.1.

Very truly yours,

G. G. Hunt Chief Engineer

Duane Arnold Energy Center

DLW/GGH/mg Encl.

cc: D. Arnold

J. Wallace

S. Smith

L. Root

W. Bryant

E. Hammond

D. Wilson

K. Haas

Dennis Murdock George Toyne

Directorate of Inspection and Enforcement U. S. Nuclear Regulatory Commission Region III

799 Roosevelt Road

Glen Ellyn, Illinois 60137 (1)

Director, Office of Management Information and Program Control

U. S. Nuclear Regulatory Commission Washington, D.C. 20555

(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)

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

UNIT SHUTDOWNS

UNIT NAMEDuane Arnold Energy Center

DATEJanuary 7, 1976

COMPLETED BYD. Wilson 319/851/5611

REPORT MONTH December 1975

	·				<u> </u>	· · · · · · · · · · · · · · · · · · ·
NO.	DATE	TYPE F-FORCED S-SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR (2)	CORRECTIVE ACTIONS/COMMENTS
19	751211	F	49.25	В	1	MSIV packing leak in drywell repaired in addition to other small valve packing leaks in drywell.
				*		
			•			
		•				

SUMMARY: Reactor operation continued in the load following mode.

UNIT	Duane	Arnold	Energy	Center

DATE	January 7,		1976	
COMPLETED BY	D.	Wilson	319/851-56	11_
DOCKET NO	50.	- 331	•	

OPERATING STATUS

1.	REPORTING PERIOD: 0001, 751201		2400 , 751231			
	HOURS IN REPORTING PERIOD:	744		<u> </u>		
2.	CURRENTLY AUTHORIZED POWER LEVEL (MWth) 1593 MAX. DEPENDABLE CAPACITY (MWe-NET) 515					
3.	LOWEST POWER LEVEL TO WHICH SPE		(IF ANY) (MWe-	-NET):		
4.	430 (approxim REASONS FOR RESTRICTION (IF ANY		13			
4.	inecore instrument tube vibrati		the result of p	otential		
	Institution of the vibration	THIS	· · · · · · · · · · · · · · · · · · ·	CUMULATIVE		
		REPORTING PERIOD	YR TO DATE	TO DATE		
5.	HOURS REACTOR WAS CRITICAL		7275.95	12030.75		
6.	REACTOR RESERVE SHUTDOWN HOURS.		0	0		
7.	HOURS GENERATOR ON LINE		6964.2	10856.5		
8.	UNIT RESERVE SHUTDOWN HOURS	• 0	0	0		
9.	GROSS THERMAL ENERGY	e				
	GENERATED (MWH)	· 825,192	7,420,728	11,963,448		
10.	GROSS ELECTRICAL ENERGY					
	GENERATED (MWH)	. 279,504	2,471,479	3,976,229		
11.	NET ELECTRICAL ENERGY	060.0	0 - 0			
	GENERATED (MWH)	. 260,870.9		3,700,240.1		
	REACTOR AVAILABILITY FACTOR (1)		82%	82%		
	UNIT AVAILABILITY FACTOR (2)		79%	79%		
	UNIT CAPACITY FACTOR (3)	68%	51%	51%		
	UNIT FORCED OUTAGE RATE (4)		10%	10%		
16.	SHUTDOWNS SCHEDULED TO BEGIN IN			AND DURATION		
17	OF EACH): Refuel shutdown, F IF SHUT DOWN AT END OF REPORT P					
	UNITS IN TEST STATUS (PRIOR TO			OLL OUTNO		
10.	ONTIS IN TEST STATUS (PRIOR TO	COMMERCIAL OPERATION) KEPOKI INE FO	JLLOWING.		
		DATE LAS	T DA ⁻	rr		
		FORECAST		•		
		3 0.1207107	, , , , ,			
	INITIAL CRI	TICALITY				
	INITIAL ELE					
	POWER GENER	ATION				
	COMMERCIAL	OPERATION	Febru	ary 1975		
		· ·	•			
(1)	REACTOR AVAILABILITY FACTOR = $\frac{H}{H}$	OURS IN REPORTING PE	RIOD X 100			
-	UNIT AVAILABILITY FACTOR $=\frac{H^{1}}{12}$	OURS GENERATOR ON LII OURS IN REPORTING PE	NE ¥ 100			
	H	OURS IN REPORTING PE	RIOD X 100			
(3)	UNIT CAPACITY FACTOR = $\frac{N!}{M!}$	ET ELECTRICAL POWER G AX. DEPENDABLE CAPAC EPORTING PERIOD	ITV (MUC NET)	/ LICHTS TH		
٠.	ום ומ	AA. DEFENDADLE CAPAC. EDADTING DEDIAD	THE (DMG-MET)	V HOOKS IN		
/ 4 \	UNIT FORCED OUTAGE RATE $=\frac{F}{H}$	UBCED UNITAGE MUNDS		y 100		
(4)	UNII FORCED OUTAGE RATE = $\frac{r_1}{H_1}$	OURS GENERATOR ON LIN	VETEUDOED UITAG	A 100		
	110	SOUR RELIEVATION ON FIL	NETFORCED DUTAG	IE MUUKS		

DOCKET	NO	50-331	
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UNITDuane Arnold Energy Center

DATE January 7, 1976

COMPLETED BY D. Wilson 319/851-5611

AVERAGE DAILY UNIT POWER LEVEL

MON	TH December 1975			
·	AVERAGE DAILY POWER LEVEL	AVERAGE DAILY POWER LEVEL		
DAY	(MWe-net)	DAY	(MWe-net)	
1	416	17	382	
2	419	18	426	
3	415	19	370	
4	418	 2 0	402	
5	409	21	388	
6	419	22	401	
7	394	23	392	
8	422	24	379	
9	425	25	. 313	
10	371	26	353	
11	0	27	368	
12	0	28	345	
13	90	29	364	
14	262	30	430	
15	323		399	
16	378			