OPERATING DATA REPORT

DOCKET NO. 050-0331
DATE 2-13-81
COMPLETED BY J. Van Sickel
TELEPHONE 310-851-5611

OPERATING STATUS	•	p	:
1 Unit Name Duane Arnold Energy C	Center	Notes	
1. Olit Name:			
z. repeting terror.			,
5 : 2:00:000	rbine Rating)	•	
(irbine Nating)		
5. Design Electrical Rating (Net MWe): 538	EAE.		
6. Maximum Dependable Capacity (Gross MWe):			
7. Maximum Dependable Capacity (Net MWe):	515		w=
8. If Changes Occur in Capacity Ratings (Items N	umber 3 Through 7) Sin	ce Last Report, Give R	easons:
•			
		•	
9. Power Level To Which Restricted, If Any (Net			
10. Reasons For Restrictions, If Any:	· · · · · · · · · · · · · · · · · · ·		
		· · · · · · · · · · · · · · · · · · ·	
	ent a 1.6		
	This Month	Yrto-Date	Cumulative
11. Hours In Reporting Period	744	744	52,608
12. Number Of Hours Reactor Was Critical	744	744	37,912.7
13. Reactor Reserve Shutdown Hours	0	0	0
14. Hours Generator On-Line	744	744	37.021
15. Unit Reserve Shutdown Hours	0	0	<u> </u>
16. Gross Thermal Energy Generated (MWH)	1,151,242	1,151,242	47,149,880
17. Gross Electrical Energy Generated (MWH)	395,187	395,187	15,797,874
18. Net Electrical Energy Generated (MWH)	373,436	373,436	14,785,473
19. Unit Service Factor	100%	100%	70.4%
20. Unit Availability Factor	100%	100%	70.4%
21. Unit Capacity Factor (Using MDC Net)	97.5%	97.5%	54.6%
Compacted a new (Osing indo Net)	93.3%	93.3%	52.2%
			
22. Unit Capacity Factor (Using DER Net)	0%	0%	18.7%
22. Unit Capacity Factor (Using DER Net) 23. Unit Forced Outage Rate	0%		18.7%
22. Unit Capacity Factor (Using DER Net) 23. Unit Forced Outage Rate 24. Shutdowns Scheduled Over Next 6 Months (Ty	pe, Date, and Duration of		18.7%
 22. Unit Capacity Factor (Using DER Net) 23. Unit Forced Outage Rate 24. Shutdowns Scheduled Over Next 6 Months (Ty Refueling, March 20, 1981, 8 v 	pe, Date, and Duration of		18.7%

* Turbine Rating: 565.7 MWe Generator Rating: 663.5 (MVA) x .90 (Power Factor) = 597 MWe

8102190530

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. <u>050-0331</u>

UNIT Duane Arnold Energ

DATE February 13, 1

TELEPHONE 319-851-5611

HTMOM	January, 1981

AY	AVERAGE DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
1	511	17	432
2	516	. 18	512
3	514	. 19	515
4	507	20	518
5	502	21	511
6 .	518	22	511
7	513	23	514
8	513	· 24	511
9	484	25	495
0	354	26	510
ı	504	27	510
2	511		509
3	511	29	510
4	511	30	508
5	512	31	508
6	505		A A Tourney

INSTRUCTIONS

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. UNIT NAME

Duane Arnold Energy February 13, 1981

DATE Van Sickel COMPLETED BY TELEPHONE 319-851-5611

REPORT MONTH __lanuary__1981

No.	Date	Type1	Duration (Hours)	Reason?	Method of Shutting Down Reactor ³	Licensee Event Report #	System Code ⁴	Component Code ⁵	Cause & Corrective Action to Prevent Recurrence
1.	810109	F	0	А	4		СВ	MOTORX	Power was reduced to allow repairs to be made to the "B" recirculation system MG set drive motor slip rings.
					!		•		•

F: Forced

S: Scheduled

Reason:

A-Equipment Failure (Explain) B-Maintenance of Test

C-Refueling

D-Regulatory Restriction
E-Operator Training & License Examination

F-Administrative

G-Operational Error (Explain) H-Other (Explain)

Method:

1-Manual

2-Manual Scram.

3-Automatic Scram.

4-Other (Explain)

Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-0161)

Exhibit I - Same Source

(9/77)

REFUELING INFORMATION

Unit Duane Arnold Energy Co Date February 13, 1981 Completed by J. Van Sicke Telephone 319-851-5611

- 1. Name of facility.
 - A. Duane Arnold Energy Center
- 2. Scheduled date for next refueling shutdown.
 - A. March 20, 1981
- 3. Scheduled date for restart following refueling.
 - A. May 15, 1981
- 4. Will refueling or resumption of operation thereafter require a technical specification change or other license amendment?
 - A. No
- 5. Scheduled date(s) for submitting proposed licensing action and supporting information.
 - A. N/A
- 6. Important licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, new operating procedures.
 - A. No licensing action is anticipated.
- 7. The number of fuel assemblies (a) in the core and (b) in the spent fuel storage pool.
 - A. a) 368
- b) 364
- 8. The present licensed spent fuel pool storage capacity and the size of any increase in licensed storage capacity that has been requested or is planned, in number of fuel assemblies.
 - A. 2050
- 9. The projected date of the last refueling that can be discharged to the spent fuel pool assuming the present licensed capacity.
 - A. 1998

Pocket No. 050-0331
Unit Duane Arnold Energy Center
Date February 13, 1981
Completed by J. Van Sickel
Telephone 319-851-5611

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

At the beginning of the report period the plant was operating at 542 MWe. During normal power operation, the "B" Drywell Particulate Radiation Element, RE 8101B, would not respond to a source check. Investigation revealed that the failure of the particulate filter resulted in particulate and moisture being deposited on the detector surface.

RO Report 81-001

During surveillance testing, turbine building high temperature switch TIS 4477, tripped at greater than 204 degrees fahrenheit. Instrument drift was determined to be the cause.

RO Report 81-002

During normal power operation, the "B" Drywell Particulate Radiation Element, RE 8101B, was unresponsive to a source check. Condensate which had collected on RE 8101B and its particulate detector had caused the sensor failure. Design review was initiated.

RO Report 81-003

- A power reduction was begun at 2037 hours in preparation for removing the "B" recirculation system from service for maintenance on the MG set drive motor slip rings. The "B" Recirc. pump was tripped and isolated at 2320 hours.
- 1-10 Repairs were completed, the "B" Recirc. pump placed back in service and a power increase begun at 0610 hours.
- The plant was operating at 545 MWe at 2232 hours. During normal power operation, the "B" Drywell Particulate Radiation Monitor failed downscale. Cause was determined to be condensate on RE 8101B. HP personnel are examining the particulate and iodine filters once per day to preclude recurrence.

RO Report 81-004

During surveillance testing, the Condensate Storage Tank Low Level Switch, LS 5219, was found inoperable. Moisture on the probe's leads within the terminal box caused the trip signal to be grounded. Design review currently underway to alleviate moisture problem in the terminal box.

RO Report 81-005

- 1-16 A load reduction was begun at 2253 hours in preparation for control rod withdrawals.
- 1-17 Rod withdrawal was completed at 0108 hours. Plant at 477 MWe at 1429 hours.
- 1-19 Truckload of new fuel arrived on site at 0800 hours.

Cket No. 050-0331

Ghit Duane Arnold Energy Center
Date February 13, 1981

Completed by J. Van Sickel
Telephone 319-851-5611

NARRATIVE SUMMARY OF OPERATING EXPERIENCE

- 1-23 Truckload of fuel arrived on site approximately 0800 hours.
- 1-24 Plant at 543 MWe at 0630 hours.
- 1-25 Power reduced to 76% for tests at 0025 hours. Power increased to 535 MWe at 0630 hours.
- 1-27 During normal operation Containment Pressure Recorder, PR 4384, failed upscale. Connector pins on amplifier card to Pen 1 were bent such that a good connection could not be maintained.

RO Report Pending

- 1-29 Half Group I isolation received on Turbine Building high temperature on "A" side.
 Alarm was reset at 0440 hours and didn't recur.
- 1-31 At the end of the report period the plant was operating at 537 MWe.

MAJOR SAFETY RELATED MAINTENANCE

Docket No. 050-0331
Unit Duane Arnold Energy Center
Date February 13, 1981
Completed by J. Van Sickel
Telephone 319-851-5611

DATE	SYSTEM	COMPONENT	DESCRIPTION
1-2-81	Containment Atmospheric Control	AN-8181A	Installed new chemicals.
1-9-81	Containment Atmospheric Control	RE-8101B	Installed new detector tube, Mylar Window and Beta Phosphor
1-7-81	Neutron Monitoring	"D" APRM	Installed new averaging card.
1-12-81	Main Steam Isolations and ADS	Relief Valve Pilot Assembly Serial #141	Pilot assembly rebuilt and tested.
1-16-81	Containment Atmospheric Control	RE-8101A	Replaced detector.
1-20-81	Containment Atmospheric Control	AN-8181B	Installed new chemicals.
1-27-81	Containment Atmospheric Control	AN-8181A	Installed new chemicals.
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