

# AmerGen

An Exelon/British Energy Company

---

**Clinton Power Station**

P.O. Box 678  
Clinton, IL 61727  
Phone: 217 935-8881

U-603450  
8E.100c

January 12, 2001

Docket No. 50-461

10CFR50.36

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: Clinton Power Station, Unit 1  
Facility Operating License NPF-62  
December 2000 Monthly Operating Report

Dear Madam or Sir:

Please find in Attachment 1 the Monthly Operating Report for Clinton Power Station, Unit 1, for the period ending December 31, 2000.

Sincerely yours,



Michael A. Reandean  
Director-Licensing

MJS/blf

**Attachments**

cc: NRC Region III Regional Administrator  
Illinois Department of Nuclear Safety  
NRC Resident Office, V-690  
Resident IDNS Inspector, T-31Z

IE24

**CHALLENGES TO MAIN STEAM SAFETY/RELIEF VALVES**

Month December 2000

10

(see attached CPS 3831.01D002, Actuation Log)

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-461  
UNIT Clinton 1  
DATE 12/31/00  
COMPLETED BY M. J. Sloan  
TELEPHONE (217)937-3280

MONTH December 2000

1	<u>938</u>	17	<u>939</u>
2	<u>938</u>	18	<u>528</u>
3	<u>878</u>	19	<u>0</u>
4	<u>940</u>	20	<u>0</u>
5	<u>939</u>	21	<u>3</u>
6	<u>939</u>	22	<u>147</u>
7	<u>939</u>	23	<u>753</u>
8	<u>939</u>	24	<u>913</u>
9	<u>940</u>	25	<u>937</u>
10	<u>940</u>	26	<u>937</u>
11	<u>937</u>	27	<u>938</u>
12	<u>937</u>	28	<u>937</u>
13	<u>936</u>	29	<u>936</u>
14	<u>938</u>	30	<u>936</u>
15	<u>938</u>	31	<u>936</u>
16	<u>940</u>		

OPERATING DATA REPORT

DOCKET NO. 50-461  
 UNIT Clinton 1  
 DATE 12/31/00  
 COMPLETED BY M. J. Sloan  
 TELEPHONE (217)937-3280

OPERATING STATUS

1. REPORTING PERIOD: December 2000 GROSS HOURS IN REPORT PERIOD: 744
2. CURRENTLY AUTHORIZED POWER LEVEL (MWt): 2894  
 MAX. DEPEND. CAPACITY (MDC) (MWe-Net): 930  
 DESIGN ELECTRICAL RATING (MWe-NET): 933
3. POWER LEVEL TO WHICH RESTRICTED (IF ANY) (MWe-Net): None
4. REASONS FOR RESTRICTION (IF ANY): N/A

	THIS MONTH	YR TO DATE	CUMULATIVE
5. NUMBER OF HOURS REACTOR WAS CRITICAL.....	<u>682.1</u>	<u>7,709.3</u>	<u>72,183.4</u>
6. REACTOR RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
7. HOURS GENERATOR ON LINE.....	<u>654.3</u>	<u>7,544.0</u>	<u>70,216.7</u>
8. UNIT RESERVE SHUTDOWN HOURS.....	<u>0.0</u>	<u>0.0</u>	<u>4.0</u>
9. GROSS THERMAL ENERGY GENERATED (MWH).....	<u>1,848,076.1</u>	<u>21,530,859</u>	<u>190,898,947.3</u>
10. GROSS ELECTRICAL ENERGY GENERATED (MWH).....	<u>619,631.0</u>	<u>7,203,151.5</u>	<u>63,232,944</u>
11. NET ELECTRICAL ENERGY GENERATED (MWH).....	<u>592,653</u>	<u>6,889,040</u>	<u>60,290,392</u>
12. REACTOR SERVICE FACTOR.....	<u>91.7%</u>	<u>87.8%</u>	<u>62.8%</u>
13. REACTOR AVAILABILITY FACTOR.....	<u>91.7%</u>	<u>87.8%</u>	<u>62.8%</u>
14. UNIT SERVICE FACTOR.....	<u>87.9%</u>	<u>85.9%</u>	<u>61.1%</u>
15. UNIT AVAILABILITY FACTOR.....	<u>87.9%</u>	<u>85.9%</u>	<u>61.1%</u>
16. UNIT CAPACITY FACTOR (Using MDC).....	<u>85.7%</u>	<u>84.3%</u>	<u>56.4%</u>
17. UNIT CAPACITY FACTOR (Using Design MWe).....	<u>85.4%</u>	<u>84.1%</u>	<u>56.3%</u>
18. UNIT FORCED OUTAGE RATE.....	<u>12.1%</u>	<u>3.3%</u>	<u>7.9%</u>

19. SHUTDOWNS SCHEDULED OVER NEXT SIX MONTHS (TYPE, DATE, DURATION OF EACH):

N/A

20. IF SHUT DOWN AT END OF REPORT PERIOD, ESTIMATED DATE OF STARTUP:

N/A

UNIT SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-461  
UNIT Clinton 1  
DATE 12/31/00  
COMPLETED BY M. J. Sloan

REPORT MONTH December 2000

NO.	DATE	F: S:	TYPE FORCED SCHEDULED	DURATION (HOURS)	REASON (1)	METHOD OF SHUTTING DOWN THE REACTOR OR REDUCING POWER (2)	CORRECTIVE ACTIONS/COMMENTS
FO-3	12/18/00		F	89.7	B	3	During the performance of Technical Specification Surveillance testing, an unplanned automatic reactor scram occurred on December 18, 2000. This scram was caused by a Group 1 isolation resulting from an unknown failure of a reactor protection system logic card. The failed logic card was replaced, surveillance procedures were revised, and the plant was started up and the generator was placed on-line on December 21, 2000.

- (1) Reason  
A - Equipment Failure (explain), B - Maintenance or Test, C - Refueling, D - Regulatory Restriction  
E - Operator training & License Examination, F - Administrative, G - Operational Error (explain)
- (2) Method  
1 - Manual, 2 - Manual Scram, 3 - Automatic Scram, 4 - Other (explain)

---

**ACTUATION LOG**

---

*SCOPE OF REVISION:*

- Updated format.

***ROUTINE USE***

---

ORIGINATOR: *Brant Chambers*

CLASS CODE: *NNNN1*

APPROVAL DATE: *SEP 28 1998*

---

<i>CHANGE NO.</i>	<i>DATE</i>	<i>PAGES</i>
<b>1</b>	_____	_____
<b>2</b>	_____	_____
<b>3</b>	_____	_____
<b>4</b>	_____	_____
<b>5</b>	_____	_____

Plant Docket No. 50-461  
ACTUATION LOG

NOTE  
 Includes all IN-SERVICE tests.

302.	Equipment Identification Number (EIN)	1B21-F051D	1B21-F051C	1B21-F051D	1B21-F051D	1B21-F051D
303.	Date of Actuation (MM/DD/YY)	12/18/00	12/18/00	12/18/00	12/18/00	12/18/00
304.	Time of Day (24 Hour Clock)	13:30:03	13:30:10	13:35:33	13:37:59	1340:22
305.	Type of Actuation (Code - Appendix A)	A	A	A	A	A
306.	Cause/Reason for Actuation (Code - Appendix A)	A	A	A	A	A
307.	Rx Operating Condition Prior to Lift (Code - Appendix A)	G	G	G	G	G
308.	Rx Power Level Prior to Lift (% Rated Thermal)	0%	0%	0%	0%	0%
309.	Time for Tailpipe Temperature to Return to Normal	Not 1	Not 1	Not 1	Not 1	06:23
310.	Other Instrumentation - Number Reading and Units	N/A	N/A	N/A	N/A	N/A
311.	Rx Pressure Prior to Actuation	1093.5	1093.5	1026	1025.25	1023
IF AVAILABLE/IF APPLICABLE (See Step 8.1.2 and accompanying NOTE.)						
312.	Reseat Pressure at Valve Closure (PSIG)	924.75	928.5	924 1026	921.75	921
313.	Duration of this Actuation (Minutes: Seconds)	00:40	00:33	01:07	00:29	00:47
314.	Failure, Reports (Code - Appendix A)	B	B	B	B	B
315.	LER Number (5 Digit Number)	N/A	N/A	N/A	N/A	N/A
316.	Comment Sheet Regarding This Actuation Attached? (Yes or No)	Yes	Yes	Yes	Yes	No

Completed By [Signature] 12/22/00  
 Signature Date

REVIEW AND APPROVAL

Shift Supervision [Signature] 12.22.00  
 Signature Date

---

**COMMENT SHEET**

---

*SCOPE OF REVISION:*

- Updated format.

***ROUTINE USE***

---

ORIGINATOR: *Brant Chambers*

CLASS CODE: *NNNN1*

APPROVAL DATE: *SEP 28 1998*

---

<i>CHANGE NO.</i>	<i>DATE</i>	<i>PAGES</i>
<b>1</b>		
<b>2</b>		
<b>3</b>		
<b>4</b>		
<b>5</b>		



Plant Docket No. 50-461

COMMENT SHEET

SRV EIN	DATE OF ACTUATION (MM/DD/YY)	TIME OF ACTUATION (24 HOUR CLOCK)
<u>1B21-F051D</u>	<u>12/18/00</u>	<u>13:30:08</u> <i>12/22/00</i>

COMMENTS:

Note 1: Block 309 1B21-F051D cycled a short time later

SRV EIN	DATE OF ACTUATION (MM/DD/YY)	TIME OF ACTUATION (24 HOUR CLOCK)
<u>1B21-F051C</u>	<u>12/18/00</u>	<u>13:30:10</u>

COMMENTS:

Note 1: Block 309 1B21-F051C cycled a short time later

SRV EIN	DATE OF ACTUATION (MM/DD/YY)	TIME OF ACTUATION (24 HOUR CLOCK)
<u>1B21-F051D</u>	<u>12/18/00</u>	<u>13:30:33</u> <i>12/22/00</i>

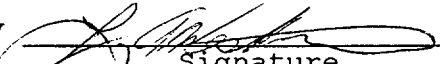
COMMENTS:

Note 1: Block 309, 1B21-F051D cycled a short time later

SRV EIN	DATE OF ACTUATION (MM/DD/YY)	TIME OF ACTUATION (24 HOUR CLOCK)
<u>1B21-F051D</u>	<u>12/18/00</u>	<u>13:37:59</u>

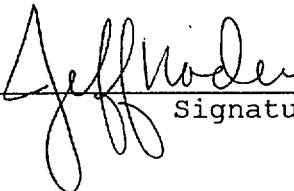
COMMENTS:

Note 1: Block 309, 1B21-F051D cycled a short time later

Completed By  12/22/00  
Signature Date

REVIEW AND APPROVAL

Shift Supervision

 12.22.00  
Signature Date

---

**ACTUATION LOG**

---

*SCOPE OF REVISION:*

- Updated format.

***ROUTINE USE***

---

ORIGINATOR: *Brant Chambers*

CLASS CODE: *NNNN1*

APPROVAL DATE: *SEP 28 1998*

---

<i>CHANGE NO.</i>	<i>DATE</i>	<i>PAGES</i>
<b>1</b>	_____	_____
<b>2</b>	_____	_____
<b>3</b>	_____	_____
<b>4</b>	_____	_____
<b>5</b>	_____	_____

Plant Docket No. 50-461  
ACTUATION LOG

NOTE  
Includes all IN-SERVICE tests.

302.	Equipment Identification Number (EIN)	1821-F046	1821-F041F	1821-F041C <small>F041C</small>	1821-F047F	1821-F047A
303.	Date of Actuation (MM/DD/YY)	12/18/00	12/18/00	12/18/00	12/18/00	12/18/00
304.	Time of Day (24 Hour Clock)	13:42:00	14:02:44	14:13:32	14:38:52	15:29:01
305.	Type of Actuation (Code - Appendix A)	B <small>12/22/00</small>	B	B	B	B
306.	Cause/Reason for Actuation (Code - Appendix A)	E	E	E	E	E
307.	Rx Operating Condition Prior to Lift (Code - Appendix A)	G	G	G	G	G
308.	Rx Power Level Prior to Lift (% Rated Thermal)	0%	0%	0%	0%	0%
309.	Time for Tailpipe Temperature to Return to Normal	05:52 <small>47</small>	03:48	05:46	04:32	06:51
310.	Other Instrumentation - Number Reading and Units	N/A <small>12/22/00</small>	N/A	N/A	N/A	N/A
311.	Rx Pressure Prior to Actuation	980.25	954	878.25	846.75	960
IF AVAILABLE/IF APPLICABLE (See Step 8.1.2 and accompanying NOTE.)						
312.	Reseat Pressure at Valve Closure (PSIG)	706.5	705.75	630.75	610.5	681.75
313.	Duration of this Actuation (Minutes: Seconds)	04:44	03:36	04:11	04:15	04:10
314.	Failure, Reports (Code - Appendix A)	B	B	B	B	B
315.	LER Number (5 Digit Number)	N/A	N/A	N/A	N/A	N/A
316.	Comment Sheet Regarding This Actuation Attached?(Yes or No)	No	No	No	No	No

Completed By  12/22/00  
Signature Date

REVIEW AND APPROVAL

Shift Supervision

 12-22-00  
Signature Date

APPENDIX AACTUATION EVENTS CODESNOTE

For each actuation event, select the appropriate code corresponding to the block number on CPS No. 3831.01D002, ACTUATION LOG.

BLOCK #	DESCRIPTION	CODES (Select One)
305	Type of Actuation	A. Automatic B. Remote Manual C. Spring
306	Cause/Reason for Actuation	A. Overpressure B. ADS C. Test D. Inadvertent (Accidental, Spurious) E. Manual Relief
307	Reactor Operating Condition Prior to Lift (LER Codes)	C. Routine Startup D. Routine Shutdown E. Steady State Operation F. Load Changes During Routine Operation G. Shutdown (Hot or Cold) Except Refueling H. Refueling
314	Failure-Reports	(Select As Many As Applicable) A. Failure of any Part of Valve Assembly - SRV Report Required B. No Failures Occurred C. LER Submitted - Give LER Number in Block # 315 D. Nuclear Plant Reliability Data System (NPRDS) Will Be Submitted E. Failure