

Exelon Generation Company, LLC      www.exeloncorp.com  
Braidwood Station  
35100 South Rt 53, Suite 84  
Braceville, IL 60407-9619  
Tel. 815-417-2000

May 13, 2005  
BW050046

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D. C. 20555-0001

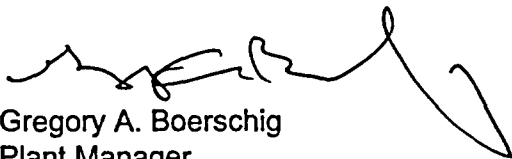
Braidwood Station, Units 1 and 2  
Facility Operating License Nos. NPF-72 and NPF-77  
NRC Docket Nos. STN 50-456 and STN 50-457

Subject:      Monthly Operating Report

In accordance with Technical Specification 5.6.4, "Monthly Operating Reports," we are submitting the Monthly Operating Report for Braidwood Station, Units 1 and 2. This report covers the period of April 1, 2005 through April 30, 2005.

If you have any questions regarding this letter, please contact Mr. Dale Ambler, Regulatory Assurance Manager, at (815) 417-2800.

Respectfully,



Gregory A. Boerschig  
Plant Manager  
Braidwood Station

Attachment  
DH/law

cc:      Regional Administrator – NRC Region III  
         NRC Senior Resident Inspector – Braidwood Station

IE24

**ATTACHMENT**

**BRAIDWOOD STATION UNITS 1 AND 2  
MONTHLY OPERATING REPORT**

**EXELON GENERATION COMPANY, LLC**

**FACILITY OPERATING LICENSE NOS. NPF-72 AND NPF-77**

**NRC DOCKET NOS. STN 50-456 AND STN 50-457**

Docket No: 50-456  
Unit: Braidwood 1  
Date: 05/03/2005  
Completed by: Don Hildebrant  
Telephone: (815)417-2173

**Braidwood Unit 1** Reporting Period: April 2005

**A. OPERATING DATA REPORT**

Design Electrical Rating (MWe Net)	1187
Maximum Dependable Capacity (MWe Net)	1156

	Month	Year To Date	Cumulative
Hours Reactor Critical (Hours)	719.0	2,879.0	126,071.7
Hours Generator on Line (Hours)	719.0	2,879.0	125,083.8
Unit Reserve Shutdown (Hours)	0.0	0.0	0.0
Net Electrical Energy (MWh)	863,601	3,467,013	136,466,387

**B. UNIT SHUTDOWNS**

<u>TYPE</u>	<u>REASON</u>	<u>METHOD</u>
F - Forced	A - Equipment Failure (explain)	1 - Manual
S - Scheduled	B - Maintenance or Test	2 - Manual Trip / Scram
	C - Refueling	3 - Automatic Trip / Scram
	D - Regulatory Restriction	4 - Continuation
	E - Operator Training / Licensee Examination	5 - Other (explain)
	F - Administrative	
	G - Operator Error (explain)	
	H - Other (explain)	

No	Date	Type	Duration Hours	Reason	Method	Cause and Corrective Actions and Comments
	None					
<b>SUMMARY</b>						
Unit operated normally at full power for the entire month except for a minor load reduction for required Turbine Valve testing on 04/10/2005.						

**C. SAFETY / RELIEF VALVE OPERATIONS**

Date	Valves Actuated	No. & Type Actuation	Plant Condition	Description of Event
None				

Data From: Production Data Bank and Operator Logs

Docket No: 50-457  
Unit: Braidwood 2  
Date: 05/03/2005  
Completed by: Don Hildebrant  
Telephone: (815)417-2173

**Braidwood Unit 2** Reporting Period: April 2005

**A. OPERATING DATA REPORT**

Design Electrical Rating (MWe Net)	1155
Maximum Dependable Capacity (MWe Net)	1131

	Month	Year To Date	Cumulative
Hours Reactor Critical (Hours)	406.2	2,493.5	129,694.8
Hours Generator on Line (Hours)	383.0	2,460.0	129,001.9
Unit Reserve Shutdown (Hours)	0.0	0.0	0.0
Net Electrical Energy (MWh)	408,315	2,842,783	140,182,563

**B. UNIT SHUTDOWNS**

TYPE	REASON	METHOD
F - Forced	A - Equipment Failure (explain)	1 - Manual
S - Scheduled	B - Maintenance or Test	2 - Manual Trip / Scram
	C - Refueling	3 - Automatic Trip / Scram
	D - Regulatory Restriction	4 - Continuation
	E - Operator Training / Licensee Examination	5 - Other (explain)
	F - Administrative	
	G - Operator Error (explain)	
	H - Other (explain)	

No	Date	Type	Duration Hours	Reason	Method	Cause and Corrective Actions and Comments
1	03/28/2005 through 04/01/2005	F	23.02	A	4	On 03/28/2005 at 12:46 a failure in a generator bushing caused a Unit trip. Repairs were made and the Unit was returned to normal service on 04/01/2005 at 23:01.
2	04/17/2005	S	312.783	C	1	Unit began scheduled refueling outage A2R11 on 04/17/2005 at 23:13

**SUMMARY**

Unit returned to service following forced outage A2F39 (Generator Bushing Failure) on 04/02/2005 and operated normally at full power until 04/17/2005 at 23:13 when the Unit was manually removed from service for scheduled refueling outage A2R11.

**C. SAFETY / RELIEF VALVE OPERATIONS**

Date	Valves Actuated	No. & Type Actuation	Plant Condition	Description of Event
None				

Data From: Production Data Bank and Operator Logs