

*Zoe Cox*

Exelon Generation Company, LLC  
Byron Station  
4450 North German Church Road  
Byron, IL 61010-9794

www.exeloncorp.com

November 19, 2009

LTR: BYRON 2009-0129  
File: 2.09.0411  
1.10.0101

Illinois Environmental Protection Agency  
Water Pollution Control  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued September 8, 2000, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of October 1, 2009 through October 31, 2009.

If there are any questions regarding this report, please contact Mr. Stanley Kerr, Chemistry Manager, at (815) 406-3200.

Respectfully,

*Bradley J. Adams*

Bradley J. Adams  
Plant Manager  
Byron Nuclear Generating Station

BJA/ZC/sdk

Attachments

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0601

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

A01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
DEMINERALIZER REGENERATE (001A)  
EFFLUENT

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

From:	YEAR	MONTH	DAY	To:	YEAR	MONTH	DAY
	0	9	1	0	0	1	0
	0	9	1	0	3	1	1

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----	<9.0	<9.0	( 19)	0	285	EC
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		ONCE/MONTH	COMP-8
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE) 01046 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB) 01051 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i> SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Bradley J. Adams			815 406-3700	09	11	19
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH
TYPED OR PRINTED						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- There was no discharge of processed steam generator chemical cleaning waste water during this month.
- Flow existed 27 of 31 days during this month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

A01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
DEMINEALIZER REGENERATE (001A)  
EFFLUENT

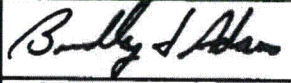
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
From: 0	9	1	To: 0	9	1

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN) 01092 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 28)	---			( 19)		500	
	PERMIT REQUIREMENT			LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.042	0.184	( 03)	---			---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---			---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE	DATE			
			815 406-3700	09	11	19	
Bradley J. Adams Plant Manager		SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0601

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrerville, IL 60555

IL0048313  
PERMIT NUMBER

B01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STP EFFLUENT (FORMER 0018)  
EFFLUENT

FACILITY LOCATION Byron Nuclear Power Station  
4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

From: 

YEAR	MONTH	DAY
0 9	1 0	0 1

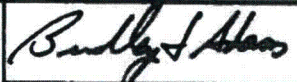
 To: 

YEAR	MONTH	DAY
0 9	1 0	3 1

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.40	0.64	( 26)	---	4.8	7.0	( 19)	0	280	DC
	PERMIT REQUIREMENT	14.2 30 DAY AVG	28.5 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MGL		TWICE/MONTH	COMP24
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	---	7.38	---	7.80	( 12)	0	280	GR
	PERMIT REQUIREMENT	---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		TWICE/MONTH	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.37	0.59	( 26)	---	4.5	6.4	( 19)	0	280	DC
	PERMIT REQUIREMENT	14.2 30 DAY AVG	28.5 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MGL		TWICE/MONTH	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.008	0.014	( 03)	---	---	---	---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
Bradley J. Adams Plant Manager TYPED OR PRINTED			815 408-3700	09 11 19	YEAR	MONTH	DAY
		SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
1. Flow existed through this outfall 31 of 31 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

C01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
WWTP (FORMER 001C)  
EFFLUENT

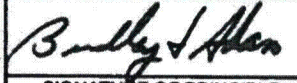
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
From: 0	9	1	To: 0	9	1
		0			1

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00630 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----	<1.7	2.6	( 19)	0	240	DC
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB) 01061 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  Bradley J. Adams Plant Manager  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE			
			815 406-3700	09	11	19	
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- There was no discharge of processed steam generator chemical cleaning waste water during this month.
- Flow existed through this outfall 17 of 31 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

C01 0  
DISCHARGE NUMBER

MAJOR  
(SUBR 01)  
F - FINAL  
WWTP (FORMER 001C)  
EFFLUENT

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

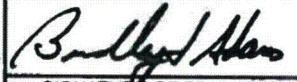
MONITORING PERIOD

From:	YEAR	MONTH	DAY	To:	YEAR	MONTH	DAY
	0	9	1	0	0	1	0
	0	9	1	0	3	1	1

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN) 01092 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 26)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	3.7	7.1	( 19)	0	240	GR
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.0 30 DAY AVG	20.0 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.030	0.057	( 03)	-----	-----	-----	---	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-----	-----	-----	---		DAILY	TOTALZ.
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
			815	406-3700	09	11	19
Bradley J. Adams Plant Manager		SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

D01 0  
DISCHARGE NUMBER

MAJOR (8UBR 01)  
F - FINAL  
RADWASTE TREATMENT (FORMER 001D)  
EFFLUENT

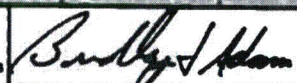
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
From:	0	9	1	0	0	1	To:	0	9	1	0	3	1				

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00630 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	<0.5	<0.5	( 19)	0	240	CP
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.0 30 DAY AVG	30.0 DAILY MAX	MGL		WEEKLY	COMPOS
OIL AND GREASE 03682 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	<1.4	<1.4	( 19)	0	240	GR
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.0 30 DAY AVG	20.0 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.022	0.023	( 03)	-----	-----	-----	-----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-----	-----	-----	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
Bradley J. Adams			815	406-3700	09	11	19
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1. Flow existed through this outfall 11 of 31 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exlon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60556

IL0048313  
PERMIT NUMBER

E01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER (FORMER 001E)  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

YEAR	MONTH	DAY	YEAR	MONTH	DAY
From: 0 9 1 0 0 1	To: 0 9 1 0 3 1				

... NO DISCHARGE  ...

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	-----	-----	---	-----	-----	-----	( 12)		500	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-----	-----	---	6.0 MINIMUM	-----	9.0 MAXIMUM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	-----	-----	( 19)		500	
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	-----	-----	( 19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	-----	-----	( 19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	-----	-----	( 19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	-----	-----	( 19)		500	
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT	-----	-----	( 26)	-----	-----	-----	( 19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i> SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
Bradley J. Adams			815	406-3700	09	11	19
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- Flow existed through this outfall 7 of 31 days during the month.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

E01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER (FORMER 001E)  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
From:	0	9	1	0	0	1	To:	0	9	1	0	3	1				

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30-DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
ZINC, TOTAL (AS ZN) 01062 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
OIL AND GREASE 03662 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	1.7	1.9	( 19)	0	290	GR
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.316	0.678	( 03)	---	---	---	---	0	290	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		TWICE/MONTH	TOTALIZ.
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					TELEPHONE 815 406-3700		DATE			
Bradley J. Adams								09 11 19			
Plant Manager						AREA CODE		NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT										
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

001 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
COOLING SYSTEM BLOWDOWN EFFLUENT

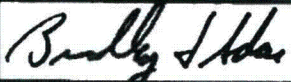
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD  
From: YEAR MONTH DAY 0 9 1 0 0 1 To: YEAR MONTH DAY 0 9 1 0 3 1

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		---	---	---	8.38	---	8.50	( 12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE		---	---	---	8.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
COPPER, TOTAL (AS CU)		---	---	( 26)	---	---	0.011	( 19)	0	240	GR
01042 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.071 DAILY MAX	MGL		WEEKLY	GRAB
ZINC, TOTAL (AS ZN)		---	---	( 26)	---	---	0.027	( 19)	0	240	GR
01092 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	1.0 DAILY MAX	MGL		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL		---	---	( 26)	---	---	---	( 19)		500	
34044 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.05 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		18.07	26.18	( 03)	---	---	---	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE		REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL		---	---	( 26)	---	0.11	0.46	( 19)	0	240	GR
50060 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.2 30 DAY AVG	0.5 DAILY MAX	MGL		WEEKLY	GRAB
HYDRAZINE		---	---	( 26)	---	---	---	( 19)		500	
81313 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.031 DAILY MAX	MGL		DAILY WHEN DISCHARGING	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Bradley J. Adams			815 406-3700	09	11	19
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
Per Special Condition 4C., the maximum allowable blowdown temperature calculation results are provided on the attachment

SEE ATTACHED



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

002 0  
DISCHARGE NUMBER

MAJOR  
(SUBR 01)  
F - FINAL  
STORMWATER RUNOFF BASIN OVERFLOW  
STORMWATER

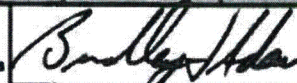
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
From:	0	9	1	0	0	1	To:	0	9	1	0	3	1				

... NO DISCHARGE  ...

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		---	---	---				( 12 )			
00400 1 0 0 EFFLUENT GROSS VALUE		---	---	---	6.0 MINIMUM		8.0 MAXIMUM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED		---	---	( 26 )				( 19 )			
00630 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MGL		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)		---	---	( 26 )				( 19 )			
01032 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY		0.1 30 DAY AVG	0.2 DAILY MAX	MGL		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)		---	---	( 26 )				( 19 )			
01034 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY		1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
COPPER, TOTAL (AS CU)		---	---	( 26 )				( 19 )			
01042 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY		0.5 30 DAY AVG	1.0 DAILY MAX	MGL		DAILY	GRAB
IRON, TOTAL (AS FE)		---	---	( 26 )				( 19 )			
01045 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY		1.0 30 DAY AVG	1.0 DAILY MAX	MGL		DAILY	GRAB
LEAD, TOTAL (AS PB)		---	---	( 26 )				( 19 )			
01051 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY		0.2 30 DAY AVG	0.4 DAILY MAX	MGL		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE			
Bradley J. Adams			815	406-3700	09	11	19
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1. No Turbines building wastewater was discharged to the Stormwater Runoff Basin during the month.
2. This discharge point was not used this month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

002 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER RUNOFF BASIN OVERFLOW  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

YEAR	MONTH	DAY	YEAR	MONTH	DAY
From: 0 9 1 0 0 1	To: 0 9 1 0 3 1				

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 26)	-----			( 19)			
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
ZINC, TOTAL (AS ZN) 01092 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 26)	-----			( 19)			
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 26)	-----			( 19)			
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 60060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT			( 03)	-----	-----	-----	---			
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-----	-----	-----	---		TWICE/MONTH	TOTALIZ
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i>	TELEPHONE		DATE		
Bradley J. Adams Plant Manager			815 408-3700	09	11	19	
TYPED OR PRINTED		SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**ATTACHMENT TO  
COOLING SYSTEM BLOWDOWN LINE (Outfall 001)  
DISCHARGE MONITORING REPORT  
For Exelon Byron Station  
Permit IL0048313  
October 2009**

**BLOWDOWN TEMPERATURE MONITORING:**

<b>Date</b>	<b>Calculated Maximum Allowable Blowdown Temp. (Degrees F)</b>	<b>Maximum Actual Blowdown Temp. (Degrees F)</b>
10/03/09	120	73.8
10/10/09	120	73.0
10/17/09	120	77.1
10/24/09	120	79.7
10/31/09	120	75.0

**Note:** Station procedures derive the *Calculated Maximum Allowable Blowdown Temperature* based on existing Rock River temperature and a calculated maximum river temperature increase. When the arithmetic sum of these values exceeds 120 degrees Fahrenheit, the *Calculated Maximum Allowable Temperature* limit defaults to 120 degrees Fahrenheit.

**HYDRAZINE MONITORING:**

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of October 2009.

**TOTAL QUANTITY DISCHARGED:** N/A

**TOTAL DURATION OF DISCHARGE:** N/A



**ATTACHMENT TO  
COOLING SYSTEM BLOWDOWN LINE (Outfall 001)  
DISCHARGE MONITORING REPORT (Page 2)  
For Exelon Byron Station  
Permit IL0048313  
October 2009**

**COMMENTS:**

1.     **The weekly halogen concentration curves and daily halogen dosing time reports are attached.**
2.     **Bromine was not used this month.**
3.     **There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.**
4.     **Flow existed through this outfall 31 of 31 days.**



EXELON  
 BYRON STATION  
 Permit IL0048313  
 WEEKLY HALOGEN DOSING INFORMATION

Date	Dosing Time (Minutes)	
	U-1	U-2
10/01/09	40	40
10/02/09	40	40
10/03/09	45	40
10/04/09	40	40
10/05/09	40	40
10/06/09	40	40
10/07/09	40	40
10/08/09	40	39
10/09/09	40	40
10/10/09	40	40
10/11/09	40	40

HALOGEN DOSING CURVE

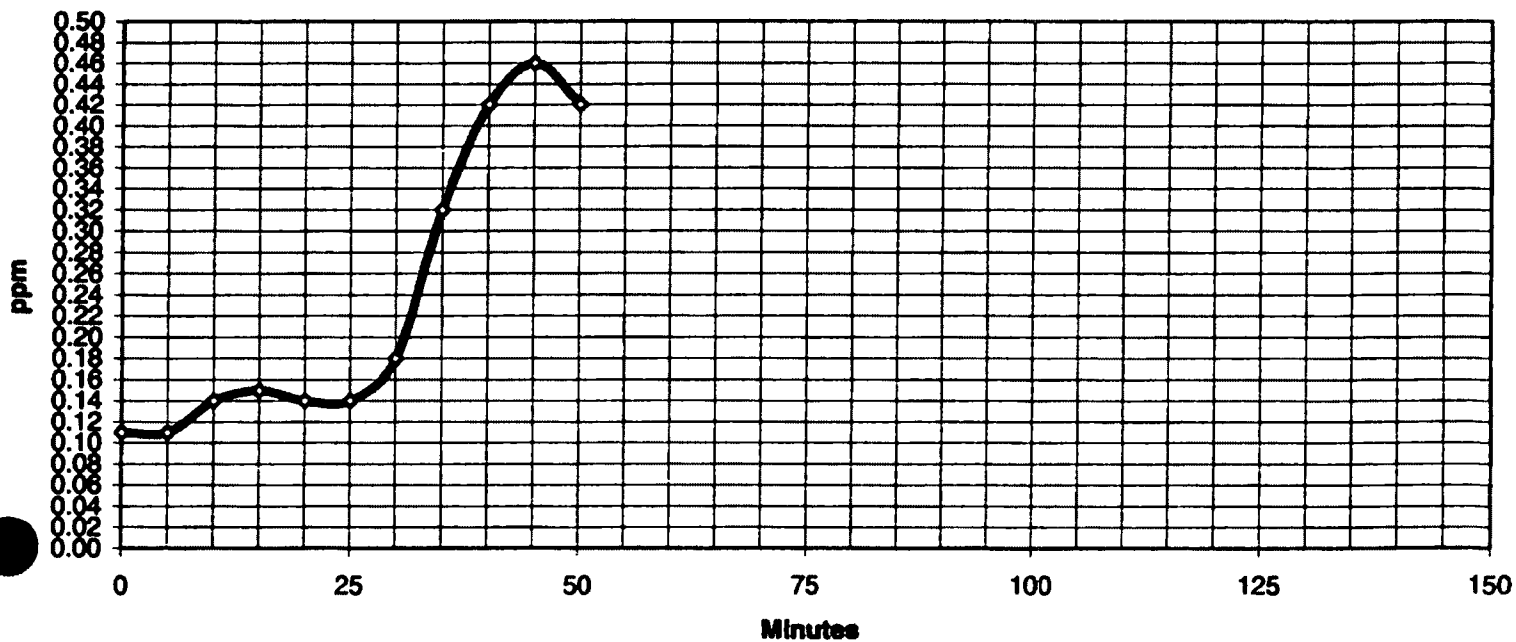
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 10/05/09  
 Time: 10:14

Analyzed by: J. D.  
 Reviewed by: D. M.

Unit: 2

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.





EXELON  
 BYRON STATION  
 Permit IL0048313  
 WEEKLY HALOGEN DOSING INFORMATION

Date	Dosing Time (Minutes)	
	U-1	U-2
10/12/09	30	30
10/13/09	30	30
10/14/09	30	30
10/15/09	30	30
10/16/09	30	30
10/17/09	30	30
10/18/09	34	32

HALOGEN DOSING CURVE

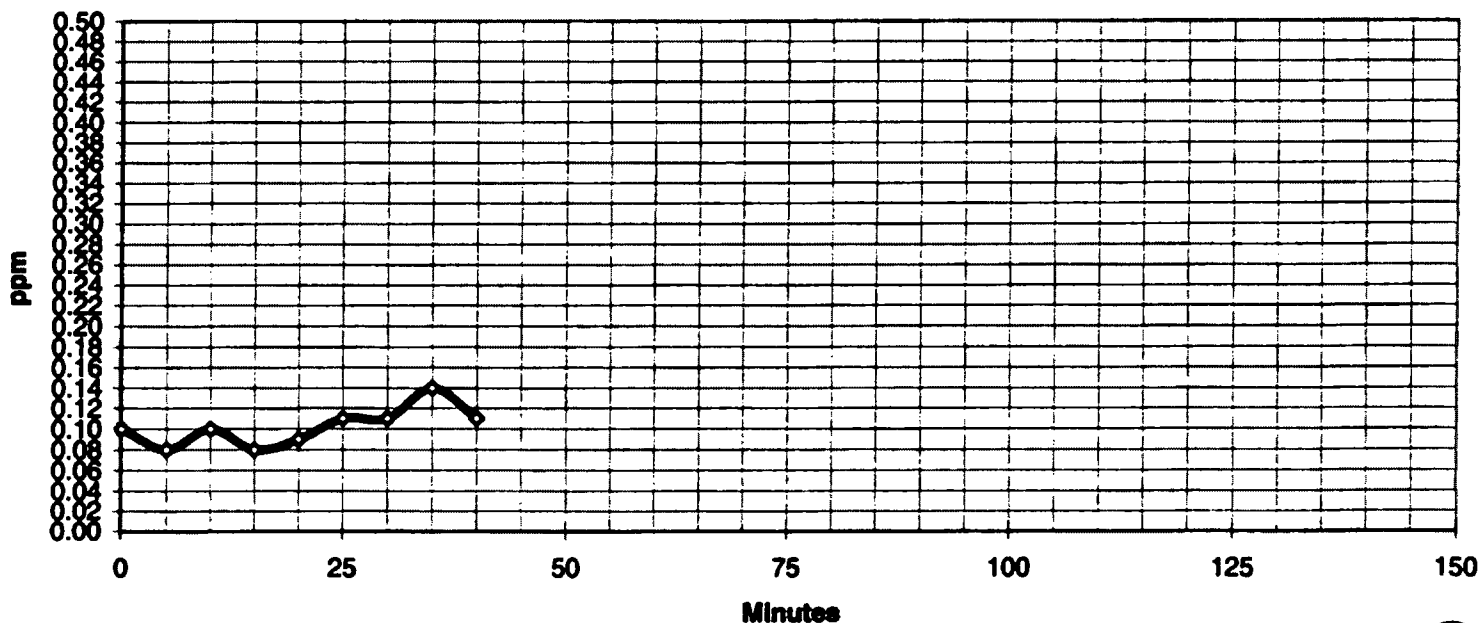
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 10/12/09  
 Time: 11:49

Analyzed by: J. D.  
 Reviewed by: D. M.

Unit: l

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.





**EXELON**  
**BYRON STATION**  
 Permit IL0048313  
**WEEKLY HALOGEN DOSING INFORMATION**

Date	Dosing Time (Minutes)	
	U-1	U-2
10/19/09	34	35
10/20/09	30	31
10/21/09	33	33
10/22/09	32	33
10/23/09	30	30
10/24/09	35	30
10/25/09	32	32

**HALOGEN DOSING CURVE**

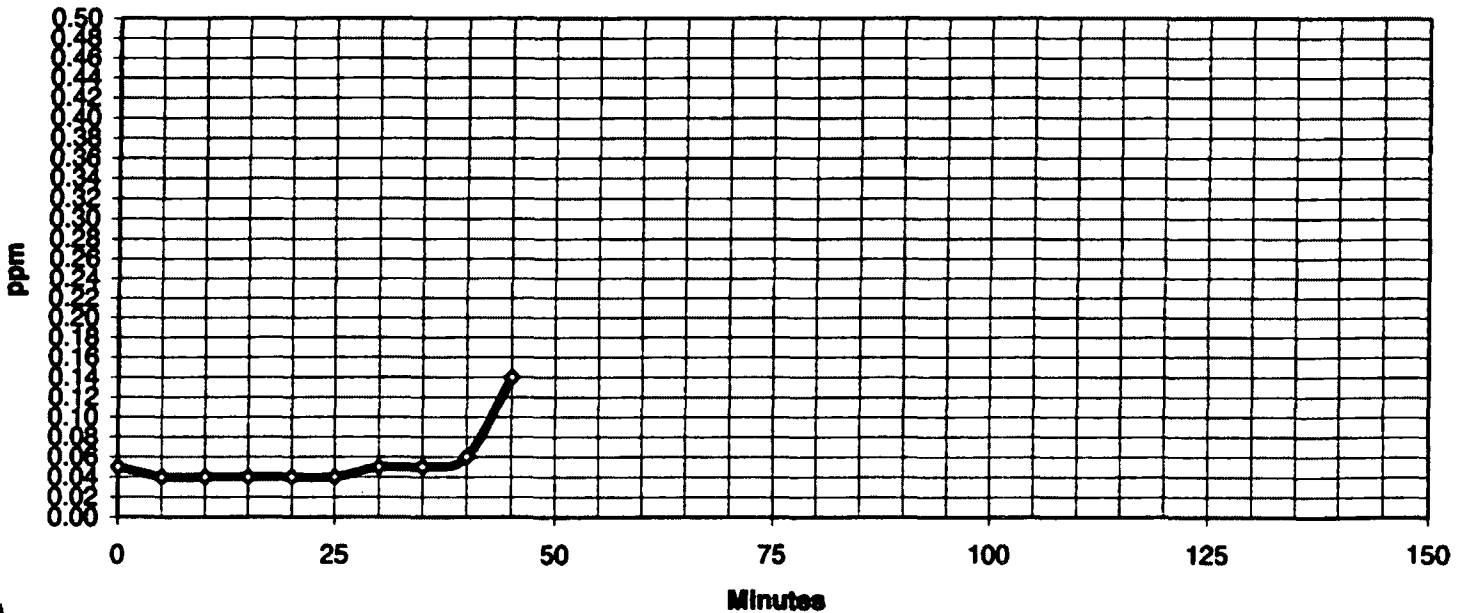
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 10/19/09  
 Time: 10:58

Analyzed by: T. M.  
 Reviewed by: D. M.

Unit: 2

**Note:** The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.





EXELON  
 BYRON STATION  
 Permit IL0048313  
 WEEKLY HALOGEN DOSING INFORMATION

Date	Dosing Time (Minutes)	
	U-1	U-2
10/26/09	30	35
10/27/09	30	30
10/28/09	30	30
10/29/09	30	30
10/30/09	32	32
10/31/09	32	33

HALOGEN DOSING CURVE

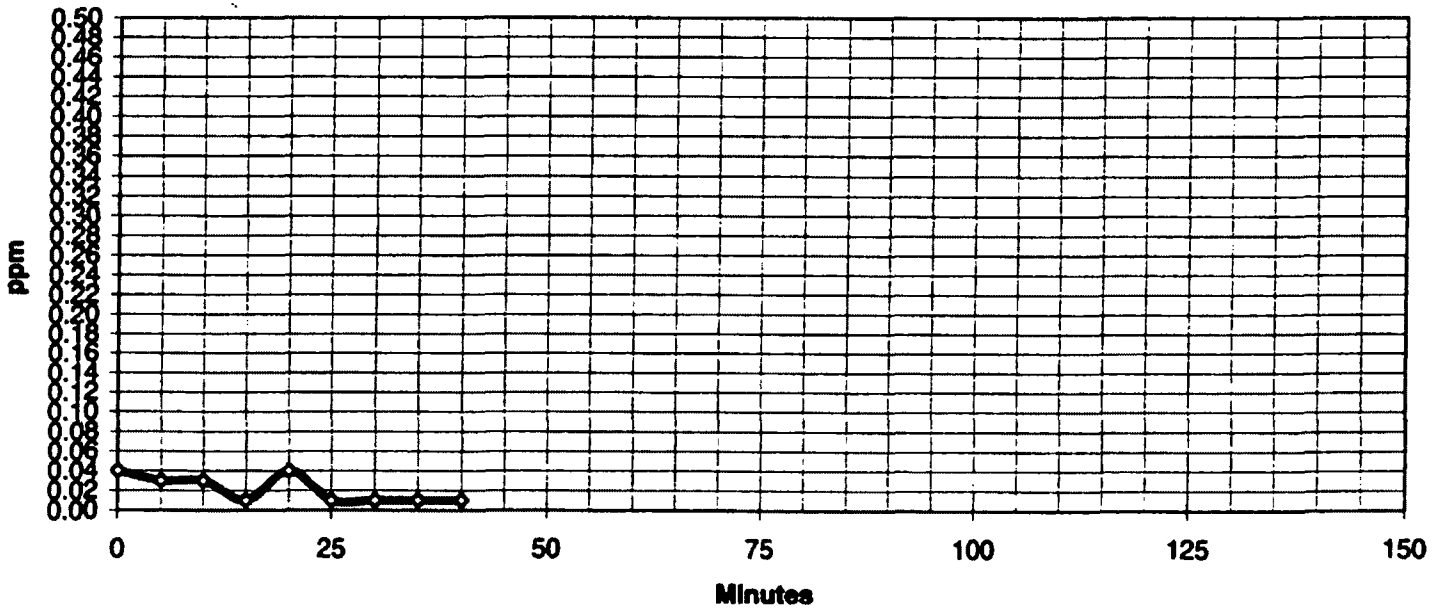
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 10/26/09  
 Time: 10:45

Analyzed by: J. W.  
 Reviewed by: D. M.

Unit: 1

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.



Exelon Generation Company, LLC  
Byron Station  
4450 North German Church Road  
Byron, IL 61010-9794

www.exeloncorp.com

*Joe*

December 17, 2009

LTR: BYRON 2009-0133  
File: 2.09.0411  
1.10.0101

Illinois Environmental Protection Agency  
Water Pollution Control  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

**Subject: Byron Station Monthly Discharge Monitoring Report**

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued September 8, 2000, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period November 1, 2009 through November 30, 2009.

If there are any questions regarding this report, please contact Mr. Stanley Kerr, Chemistry Manager, at (815) 406-3200.

Respectfully,

*Bradley J. Adams*

Bradley J. Adams  
Plant Manager  
Byron Nuclear Generating Station

BJA/ZC/sdk

Attachments



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

A01 0  
DISCHARGE NUMBER

MAJOR  
(SUBR 01)  
F - FINAL  
DEMINEALIZER REGENERATE (001A)  
EFFLUENT

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

YEAR	MONTH	DAY	YEAR	MONTH	DAY
0 9	1 1	0 1	0 9	1 1	3 0

From: To:

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	0.6	0.6	( 19)	0	285	EC
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		ONCE/MONTH	COMP-8
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB) 01051 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i>	TELEPHONE		DATE		
Bradley J. Adams			815	406-3700	09	12	17
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED			SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT				

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- There was no discharge of processed steam generator chemical cleaning waste water during this month.
- Flow existed 28 of 30 days during this month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
 NAME Exelon Generation Co., LLC  
 ADDRESS 4300 Winfield Road  
 Warrenville, IL 60555

IL0048313  
 PERMIT NUMBER

A01 0  
 DISCHARGE NUMBER

MAJOR (SUBR 01)  
 F - FINAL  
 DEMINERALIZER REGENERATE (001A)  
 EFFLUENT

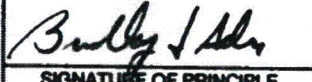
FACILITY Byron Nuclear Power Station  
 LOCATION 4450 North German Church Road  
 Byron, IL 61010

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
From: 0 9 1 1 0 1			To: 0 9 1 1 3 0		

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN) 01092 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT			LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50080 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.022	0.108	( 03)	-----	-----	-----	---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-----	-----	-----	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			815 406-3700	09	12	17	
Bradley J. Adams Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

B01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STP EFFLUENT (FORMER 001B)  
EFFLUENT

FACILITY LOCATION Byron Nuclear Power Station  
4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

From: 

YEAR	MONTH	DAY
0 9 1 1	0 1	0 1

 To: 

YEAR	MONTH	DAY
0 9 1 1	3 0	0

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	< 0.12	< 0.12	( 26)	-----	< 2.0	< 2.0	( 19)	0	290	DC
	PERMIT REQUIREMENT	14.2 30 DAY AVG	28.5 DAILY MAX	LBS/DY	-----	39.0 30 DAY AVG	69.0 DAILY MAX	MGL		TWICE/MONTH	COMP24
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	---	7.35	-----	7.48	( 12)	0	290	GR
	PERMIT REQUIREMENT	-----	-----	---	6.0 MINIMUM	-----	9.0 MAXIMUM	SU		TWICE/MONTH	GRAS
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	< 0.047	0.084	( 26)	-----	< 0.8	1.1	( 19)	0	290	DC
	PERMIT REQUIREMENT	14.2 30 DAY AVG	28.5 DAILY MAX	LBS/DY	-----	39.0 30 DAY AVG	69.0 DAILY MAX	MGL		TWICE/MONTH	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.008	0.008	( 03)	-----	-----	-----	---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-----	-----	-----	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i> SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Bradley J. Adams Plant Manager			815 406-3700	09	12	17
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- Flow existed through this outfall 29 of 30 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exton Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

C01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
WWTP (FORMER 001C)  
EFFLUENT

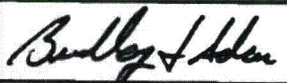
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
From:	0	9	1	1	0	1	To:	0	9	1	1	3	0				

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00630 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	---	---	( 26)	---	< 2.0	2.8	( 19)	0	240	DC
	REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MGL		WEEKLY	COMP24
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	---	---	( 26)	---			( 19)		500	
	REQUIREMENT	---	---	LBS/DY	---	0.1 30 DAY AVG	0.2 DAILY MAX	MGL		DAILY	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	---	---	( 26)	---			( 19)		500	
	REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	---	---	( 26)	---			( 19)		500	
	REQUIREMENT	---	---	LBS/DY	---	0.5 30 DAY AVG	1.0 DAILY MAX	MGL		DAILY	GRAB
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	---	---	( 26)	---			( 19)		500	
	REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	1.0 DAILY MAX	MGL		DAILY	GRAB
LEAD, TOTAL (AS PB) 01051 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	---	---	( 26)	---			( 19)		500	
	REQUIREMENT	---	---	LBS/DY	---	0.2 30 DAY AVG	0.4 DAILY MAX	MGL		DAILY	GRAB
NICKEL, TOTAL (AS NI) 01057 1 0 0 EFFLUENT GROSS VALUE	MEASUREMENT	---	---	( 26)	---			( 19)		500	
	REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE		
Bradley J. Adams			815	406-3700	09	12	17
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- There was no discharge of processed steam generator chemical cleaning waste water during this month.
- Flow existed through this outfall 18 of 30 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0046313  
PERMIT NUMBER

C01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
WWTP (FORMER 001C)  
EFFLUENT

FACILITY LOCATION Byron Nuclear Power Station  
4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

From:	YEAR	MONTH	DAY	To:	YEAR	MONTH	DAY
	0	9	1	1	0	1	3
	0	9	1	1	3	0	0

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN) 01092 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	3.2	4.7	( 19)	0	240	GR
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	20.0 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.023	0.041	( 03)	---	---	---	---	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	TOTALIZ
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					TELEPHONE		DATE			
Bradley J. Adams						815	408-3700	09	12	17	
Plant Manager						AREA CODE	NUMBER	YEAR	MONTH	DAY	
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT										
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

D01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
RADWASTE TREATMENT (FORMER 001D)  
EFFLUENT

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

YEAR	MONTH	DAY	YEAR	MONTH	DAY
0 9	1 1	0 1	To: 0 9	1 1	3 0

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	<0.5	<0.5	( 19)	0	240	CP
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MGL		WEEKLY	COMPOS
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	<1.4	<1.4	( 19)	0	240	GR
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	20.0 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 60060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.022	0.023	( 03)	---	---	---	---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					TELEPHONE		DATE			
Bradley J. Adams						815	408-3700	09	12	17	
Plant Manager						AREA CODE	NUMBER	YEAR	MONTH	DAY	
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT										
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											
1. Flow existed through this outfall 3 of 30 days during the month.											



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0601

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

E01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER (FORMER 001E)  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4460 North German Church Road  
Byron, IL 61010

MONITORING PERIOD  
From: YEAR MONTH DAY 0 9 1 1 0 1 To: YEAR MONTH DAY 0 9 1 1 3 0

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	PERMIT REQUIREMENT	---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		500	GRAB
00400 1 0 0 EFFLUENT GROSS VALUE										SEE PERMIT	
SOLIDS, TOTAL SUSPENDED	PERMIT REQUIREMENT	---	---	( 26)	---	15.0 30 DAY AVG	30.0 DAILY MAX	MGL		500	GRAB
00530 1 0 0 EFFLUENT GROSS VALUE				LBS/DY						SEE PERMIT	
CHROMIUM, HEXAVALENT (AS CR)	PERMIT REQUIREMENT	---	---	( 26)	---	0.1 30 DAY AVG	0.2 DAILY MAX	MGL		500	GRAB
01032 1 0 0 EFFLUENT GROSS VALUE				LBS/DY						DAILY	
CHROMIUM, TOTAL (AS CR)	PERMIT REQUIREMENT	---	---	( 26)	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		500	GRAB
01034 1 0 0 EFFLUENT GROSS VALUE				LBS/DY						DAILY	
COPPER, TOTAL (AS CU)	PERMIT REQUIREMENT	---	---	( 26)	---	0.5 30 DAY AVG	1.0 DAILY MAX	MGL		500	GRAB
01042 1 0 0 EFFLUENT GROSS VALUE				LBS/DY						DAILY	
IRON, TOTAL (AS FE)	PERMIT REQUIREMENT	---	---	( 26)	---	1.0 30 DAY AVG	1.0 DAILY MAX	MGL		500	GRAB
01045 1 0 0 EFFLUENT GROSS VALUE				LBS/DY						DAILY	
LEAD, TOTAL (AS PB)	PERMIT REQUIREMENT	---	---	( 26)	---	0.2 30 DAY AVG	0.4 DAILY MAX	MGL		500	GRAB
01051 1 0 0 EFFLUENT GROSS VALUE				LBS/DY						DAILY	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i>	TELEPHONE		DATE			
Bradley J. Adams			815	406-3700	09	12	17	
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY	
TYPED OR PRINTED			SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- Flow existed through this outfall 3 of 30 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

**PERMITTEE NAME/ADDRESS**

NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

E01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER (FORMER 001E)  
STORMWATER

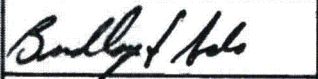
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
09	11	01	09	11	03

From: To:

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
ZINC, TOTAL (AS ZN) 01082 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
OIL AND GREASE 03682 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	< 1.5	1.6	( 19)	0	290	GR
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30-DAY AVG	20.0 DAILY MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.103	0.154	( 03)	---	---	---	---	0	290	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		TWICE/MONTH	TOTALIZ
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.				 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
Bradley J. Adams							815	406-3700	09	12	17
Plant Manager							AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED	COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)										



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

**IL0048313**  
PERMIT NUMBER

**001 0**  
DISCHARGE NUMBER

MAJOR  
(SUBR 01)  
F - FINAL  
COOLING SYSTEM BLOWDOWN  
EFFLUENT

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

From:	YEAR	MONTH	DAY	To:	YEAR	MONTH	DAY
	0	9	1	1	0	1	1
	0	9	1	1	3	0	0

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		---	---	---	8.60	---	8.73	( 12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE		---	---	---	8.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
COPPER, TOTAL (AS CU)		---	---	( 26)	---	---	0.015	( 19)	0	240	GR
01042 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.071 DAILY MAX	MGL		WEEKLY	GRAB
ZINC, TOTAL (AS ZN)		---	---	( 26)	---	---	0.101	( 19)	0	240	GR
01092 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	1.0 DAILY MAX	MGL		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL		---	---	( 26)	---	---	---	( 19)		500	
34044 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.05 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		18.65	24.23	( 03)	---	---	---	---	0	135	CN
50060 1 0 0 EFFLUENT GROSS VALUE		REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL		---	---	( 26)	---	0.10	0.27	( 19)	0	240	GR
50060 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.2 30 DAY AVG	0.5 DAILY MAX	MGL		WEEKLY	GRAB
HYDRAZINE		---	---	( 26)	---	---	---	( 19)		500	
81313 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.031 DAILY MAX	MGL		DAILY WHEN DISCHARGING	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i>	TELEPHONE	DATE		
Bradley J. Adams			815 406-3700	09	12	17
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH
TYPED OR PRINTED						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
Per Special Condition 4C., the maximum allowable blowdown temperature calculation results are provided on the attachment  
**SEE ATTACHED**



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exlon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

002 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER RUNOFF BASIN OVERFLOW  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD  
From: YEAR MONTH DAY 0 9 1 1 0 1 To: YEAR MONTH DAY 0 9 1 1 3 0

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		---	---	---		---		( 12 )			
00400 1 0 0 EFFLUENT GROSS VALUE		---	---	---	0.0 MINIMUM	---	9.0 MAXIMUM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED		---	---	( 26 )		---		( 19 )			
00530 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)		---	---	( 26 )		---		( 19 )			
01032 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)		---	---	( 26 )		---		( 19 )			
01034 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)		---	---	( 26 )		---		( 19 )			
01042 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE)		---	---	( 26 )		---		( 19 )			
01045 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)		---	---	( 26 )		---		( 19 )			
01051 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	<i>Bradley J. Adams</i>	TELEPHONE	DATE		
Bradley J. Adams			815 406-3700	09	12	17
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH
TYPED OR PRINTED						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- This discharge point was not used this month.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

002 0  
DISCHARGE NUMBER

MAJOR  
(SUBR 01)  
F - FINAL

STORMWATER RUNOFF BASIN OVERFLOW  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD					
YEAR	MONTH	DAY	YEAR	MONTH	DAY
09	11	01	09	11	03

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 28)	---			( 19)			
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
ZINC, TOTAL (AS ZN) 01082 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 28)	---			( 19)			
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 28)	---			( 19)			
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	20.0 DAILY MAX	MGL		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT			( 03)	---	---	---	---			
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		TWICE/MONTH	TOTALIZ.
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					SIGNATURE OF PRINCIPLE <i>Bradley J. Adams</i>		TELEPHONE		DATE	
Bradley J. Adams						815 406-3700		09	12	17	
Plant Manager TYPED OR PRINTED						AREA CODE	NUMBER	YEAR	MONTH	DAY	
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											



**ATTACHMENT TO  
COOLING SYSTEM BLOWDOWN LINE (Outfall 001)  
DISCHARGE MONITORING REPORT  
For Exelon Byron Station  
Permit IL0048313  
November 2009**

**BLOWDOWN TEMPERATURE MONITORING:**

<b>Date</b>	<b>Calculated Maximum Allowable Blowdown Temp. (Degrees F)</b>	<b>Maximum Actual Blowdown Temp. (Degrees F)</b>
11/07/09	120	85.4
11/14/09	120	80.9
11/21/09	120	76.7
11/28/09	120	77.6

**Note:** Station procedures derive the *Calculated Maximum Allowable Blowdown Temperature* based on existing Rock River temperature and a calculated maximum river temperature increase. When the arithmetic sum of these values exceeds 120 degrees Fahrenheit, the *Calculated Maximum Allowable Temperature* limit defaults to 120 degrees Fahrenheit.

**HYDRAZINE MONITORING:**

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of November 2009.

**TOTAL QUANTITY DISCHARGED:** N/A

**TOTAL DURATION OF DISCHARGE:** N/A



**ATTACHMENT TO  
COOLING SYSTEM BLOWDOWN LINE (Outfall 001)  
DISCHARGE MONITORING REPORT (Page 2)  
For Exelon Byron Station  
Permit IL0048313  
November 2009**

**COMMENTS:**

- 1. The weekly halogen concentration curves and daily halogen dosing time reports are attached.**
- 2. Bromine was not used this month.**
- 3. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.**
- 4. Flow existed through this outfall 30 of 30 days.**



**EXELON  
BYRON STATION  
Permit IL0048313  
WEEKLY HALOGEN DOSING INFORMATION**

Date	Dosing Time (Minutes)	
	U-1	U-2
11/01/09	30	30
11/02/09	30	32
11/03/09	30	30
11/04/09	31	31
11/05/09	32	31
11/06/09	30	30
11/07/09	30	30
11/08/09	30	30

**HALOGEN DOSING CURVE**

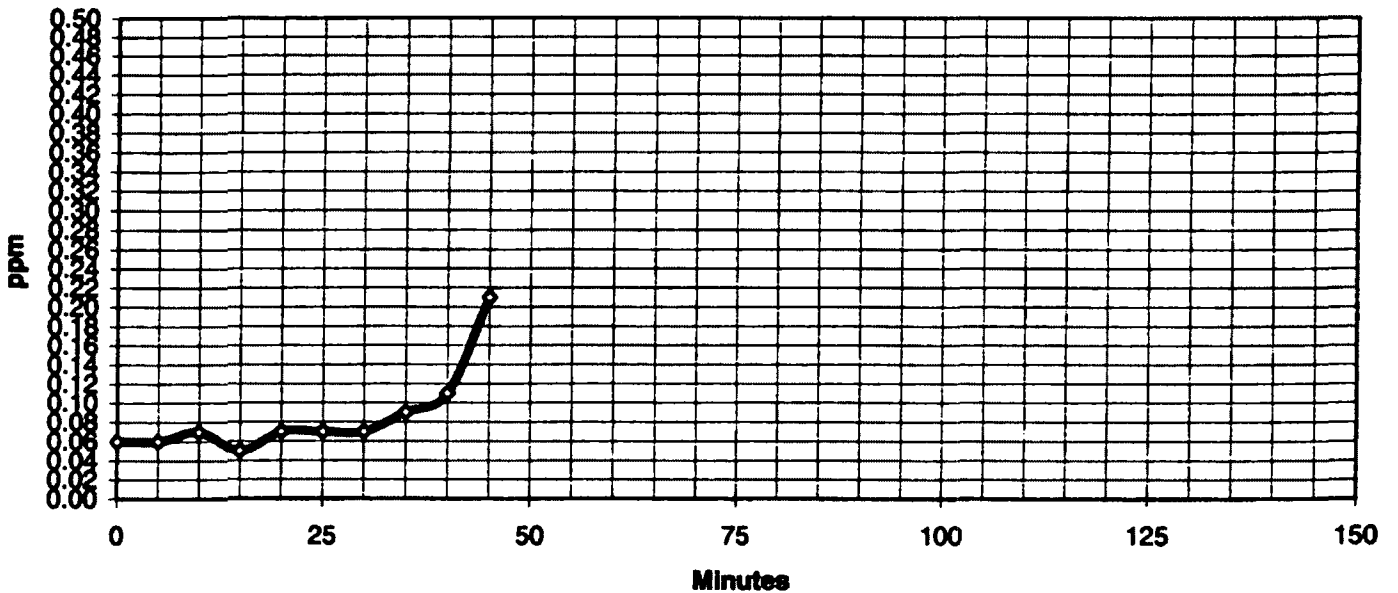
Concentration of total residual chlorine/halogen  
vs. minutes of chlorination period.

Date: 11/02/09  
Time: 11:13

Analyzed by: G.S.  
Reviewed by: D. M.

Unit: 2

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.





**EXELON**  
**BYRON STATION**  
 Permit IL0048313  
**WEEKLY HALOGEN DOSING INFORMATION**

Date	Dosing Time (Minutes)	
	U-1	U-2
11/09/09	30	30
11/10/09	30	30
11/11/09	30	30
11/12/09	31	30
11/13/09	33	31
11/14/09	28	29
11/15/09	30	22

**HALOGEN DOSING CURVE**

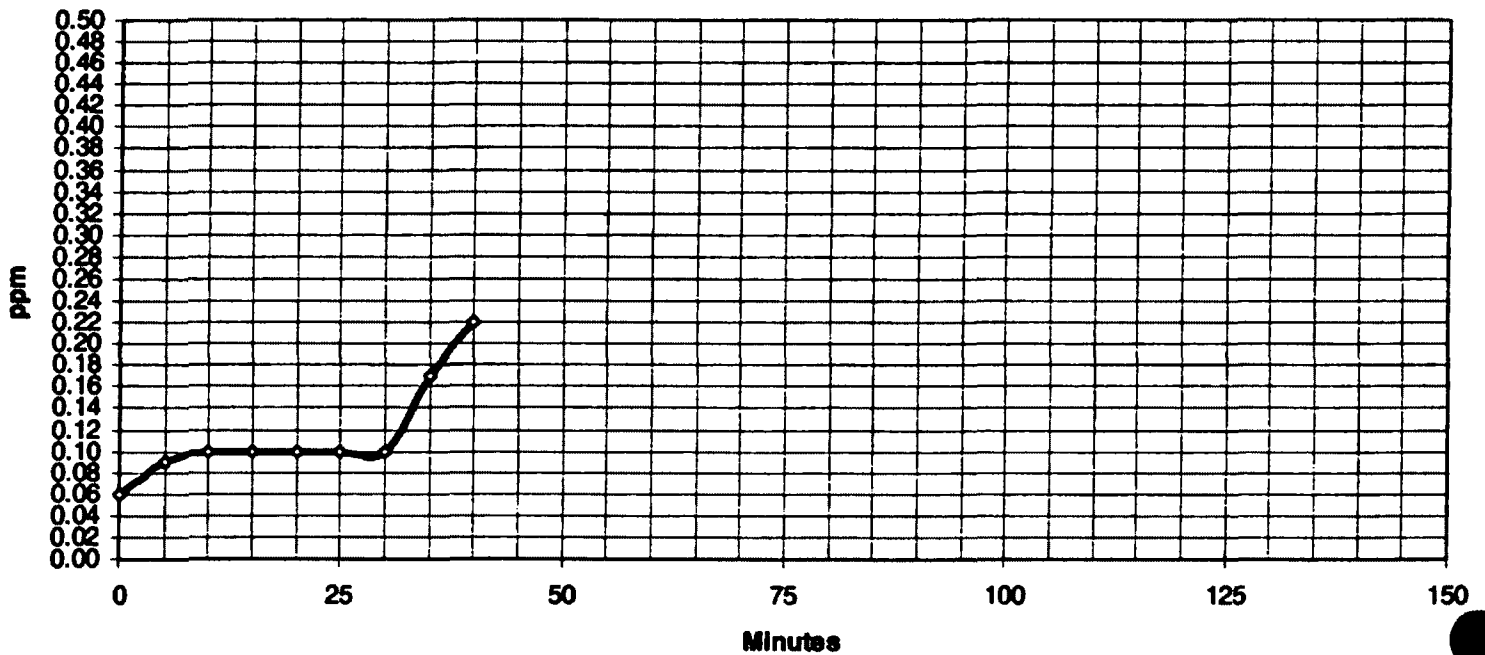
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 11/09/09  
 Time: 12:20

Analyzed by: D. C. A.  
 Reviewed by: D. M.

Unit: l

**Note:** The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.



**EXELON**  
**BYRON STATION**  
 Permit IL0048313  
**WEEKLY HALOGEN DOSING INFORMATION**

Date	Dosing Time (Minutes)	
	U-1	U-2
11/16/09	25	25
11/17/09	25	25
11/18/09	21	17
11/19/09	18	18
11/20/09	18	18
11/21/09	18	18
11/22/09	20	19

**HALOGEN DOSING CURVE**

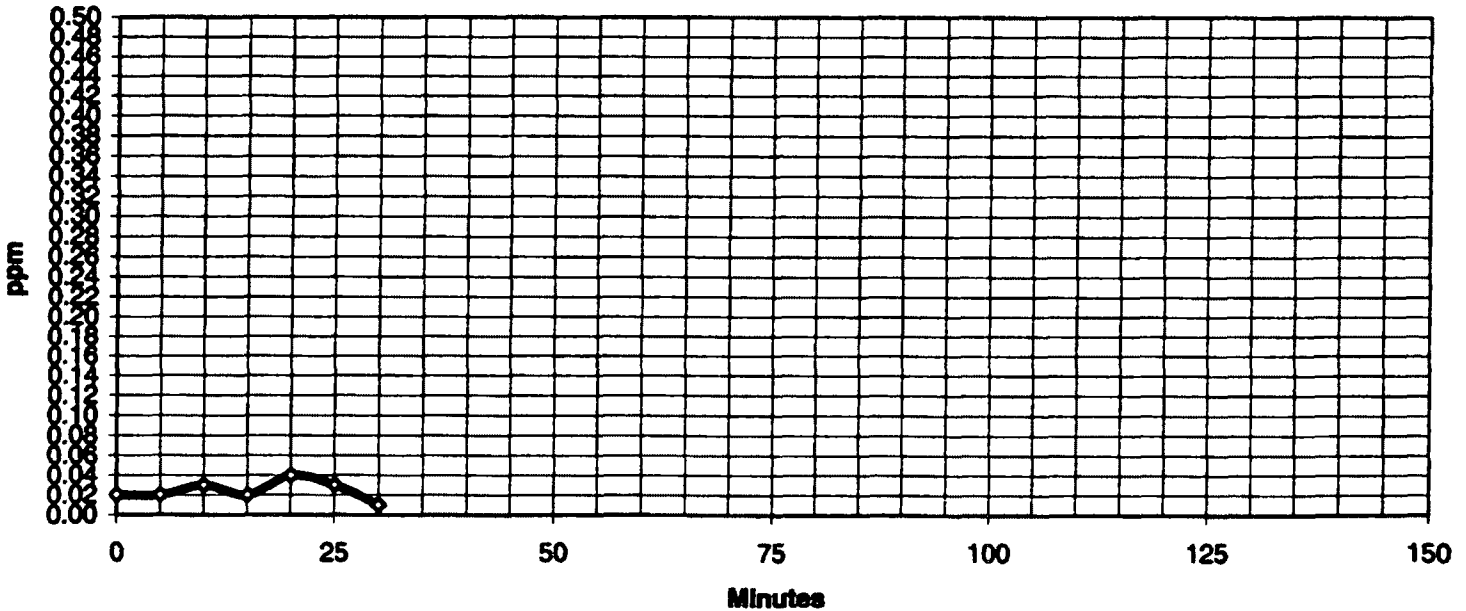
Concentration of total residual chlorine/halogen  
vs. minutes of chlorination period.

Date: 11/18/09  
Time: 10:28

Analyzed by: J.W.  
Reviewed by: D. M.

Unit: 2

**Note:** The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.





EXELON  
 BYRON STATION  
 Permit IL0048313  
 WEEKLY HALOGEN DOSING INFORMATION

Date	Dosing Time (Minutes)	
	U-1	U-2
11/23/09	28	25
11/24/09	27	24
11/25/09	17	17
11/26/09	16	16
11/27/09	17	17
11/28/09	25	25
11/29/09	25	25
11/30/09	20	20

HALOGEN DOSING CURVE

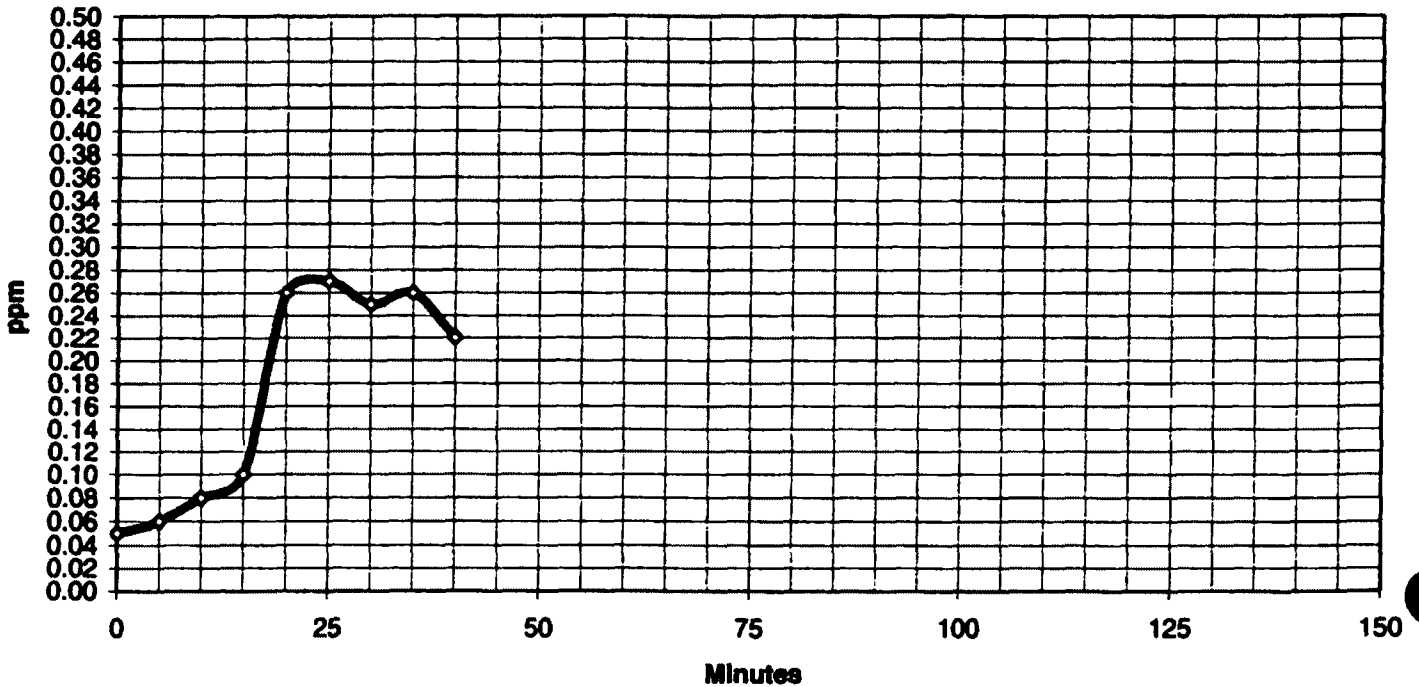
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 11/23/09  
 Time: 11:11

Analyzed by: M. K.  
 Reviewed by: D. M.

Unit: 1

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.



Exelon Generation Company, LLC  
Byron Station  
4450 North German Church Road  
Byron, IL 61010-9794

www.exeloncorp.com

*3. Cox*

January 21, 2010

LTR: BYRON 2010-0011  
File: 2.09.0411  
1.10.0101

Illinois Environmental Protection Agency  
Water Pollution Control  
Compliance Assurance Section #19  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

Subject: Byron Station Monthly Discharge Monitoring Report

In accordance with National Pollutant Discharge Elimination System (NPDES) Permit Number IL0048313, issued September 8, 2000, we are submitting the Discharge Monitoring Report for Byron Station, Units 1 and 2. This report covers the period of December 1, 2009 through December 31, 2009.

Special Condition 5 of the NPDES permit requires the station to weigh the copper anodes at the end of the zebra mussel control season and to include the total mass of copper used in the discharge monitoring report. The zebra mussel copper ion skids were shutdown on December 2, 2009. The anodes of the OA copper ion skid were removed and weighed on January 8, 2010. The anodes of the OB copper ion skid were removed and weighed on January 8, 2010. The total mass of copper used for zebra mussel control was 214 pounds.

If there are any questions regarding this report, please contact Mr. Stanley Kerr, Chemistry Manager, at (815) 406-3200.

Respectfully,



Daniel J. Enright  
Site Vice President  
Byron Nuclear Generating Station

DJE/ZC/sdk

Attachments



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0601

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

A01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
DEMNERALIZER REGENERATE (001A)  
EFFLUENT

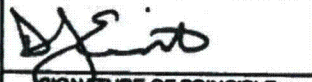
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD						
YEAR	MONTH	DAY	YEAR	MONTH	DAY	
0	9	1	2	0	1	
From:			To:	0 9 1 2 3 1		

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00630 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	< 0.5	< 0.5	( 19)	0	285	EC
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		ONCE/MONTH	COMP-8
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE) 01045 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB) 01051 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Daniel J. Enright			815 406-3800	10	01	21
Site Vice President			AREA CODE	NUMBER	YEAR	MONTH
TYPED OR PRINTED						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- There was no discharge of processed steam generator chemical cleaning waste water during this month.
- Flow existed 30 of 31 days during this month.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

A01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
DEMINERALIZER REGENERATE (001A)  
EFFLUENT

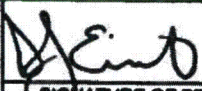
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
From:	0	9	1	2	0	1	To:	0	9	1	2	3	1				

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN) 01082 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT			LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.025	0.105	( 03)	---	---	---	---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			815 406-3600	10	01	21	
Daniel J. Enright Site Vice President			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048913  
PERMIT NUMBER

B01 0  
DISCHARGE NUMBER

MAJOR  
(SUBR 01)  
F - FINAL  
STP EFFLUENT (FORMER 001B)  
EFFLUENT

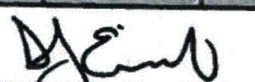
FACILITY LOCATION Byron Nuclear Power Station  
4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD						
YEAR	MONTH	DAY	YEAR	MONTH	DAY	
From: 0 9 1 2 0 1			To: 0 9 1 2 3 1			

... NO DISCHARGE  ...

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C) 00310 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	< 0.14	< 0.17	( 26)	-----	< 2.0	< 2.0	( 19)	0	290	DC
	PERMIT REQUIREMENT	14.2 30 DAY AVG	28.5 DAILY MAX	LBS/DY	-----	30.0 30 DAY AVG	60.0 DAILY MAX	MGL		TWICE/ MONTH	COMP24
PH 00400 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	---	7.37	-----	7.68	( 12)	0	290	GR
	PERMIT REQUIREMENT	-----	-----	---	8.0 MINIMUM	-----	9.0 MAXIMUM	SU		TWICE/ MONTH	GRAB
SOLIDS, TOTAL SUSPENDED 00630 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	< 0.08	0.11	( 26)	-----	< 1.3	2.1	( 19)	0	290	DC
	PERMIT REQUIREMENT	14.2 30 DAY AVG	28.5 DAILY MAX	LBS/DY	-----	30.0 30 DAY AVG	60.0 DAILY MAX	MGL		TWICE/ MONTH	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 60060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.007	0.010	( 03)	-----	-----	-----	---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-----	-----	-----	---		DAILY	CONTRN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Daniel J. Enright Site Vice President			815 406-3600	10	01	21
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1. Flow existed through this outfall 30 of 31 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0601

PERMITTEE NAME/ADDRESS  
NAME Exlon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60556

IL0048313  
PERMIT NUMBER

C01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
WWTP (FORMER 001C)  
EFFLUENT

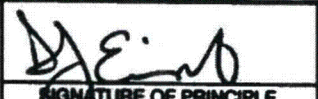
FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
0	9	1	2	0	1	0	9	1	2	3	1						

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	---	---	( 26 )	---	2.5	3.6	( 19 )	0	240	DC	
CHROMIUM, HEXAVALENT (AS CR) 01032 1 0 0 EFFLUENT GROSS VALUE	---	---	( 26 )	---	15.0 30 DAY AVG	30.0 DAILY MAX	( 19 )		WEEKLY	COMP24	
CHROMIUM, TOTAL (AS CR) 01034 1 0 0 EFFLUENT GROSS VALUE	---	---	( 26 )	---	0.1 30 DAY AVG	0.2 DAILY MAX	( 19 )		DAILY	GRAB	
COPPER, TOTAL (AS CU) 01042 1 0 0 EFFLUENT GROSS VALUE	---	---	( 26 )	---	1.0 30 DAY AVG	2.0 DAILY MAX	( 19 )		DAILY	GRAB	
IRON, TOTAL (AS FE) 01046 1 0 0 EFFLUENT GROSS VALUE	---	---	( 26 )	---	0.5 30 DAY AVG	1.0 DAILY MAX	( 19 )		DAILY	GRAB	
LEAD, TOTAL (AS PB) 01051 1 0 0 EFFLUENT GROSS VALUE	---	---	( 26 )	---	1.0 30 DAY AVG	1.0 DAILY MAX	( 19 )		DAILY	GRAB	
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	---	---	( 26 )	---	0.2 30 DAY AVG	0.4 DAILY MAX	( 19 )		DAILY	GRAB	
					1.0 30 DAY AVG	2.0 DAILY MAX	( 19 )		DAILY	GRAB	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Daniel J. Enright Site Vice President			815 406-3600	10	01	21
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- There was no discharge of processed steam generator chemical cleaning waste water during this month.
- Flow existed through this outfall 18 of 31 days during the month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

C01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
WWTP (FORMER 001C)  
EFFLUENT

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

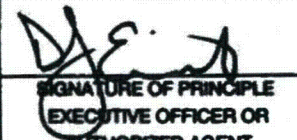
MONITORING PERIOD

From:	YEAR	MONTH	DAY	To:	YEAR	MONTH	DAY
	0	9	1	2	0	9	1

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
ZINC, TOTAL (AS ZN) 01082 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----			( 19)		500	
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-----	-----	( 28)	-----	< 2.6	3.6	( 19)	0	240	GR
	PERMIT REQUIREMENT	-----	-----	LBS/DY	-----	15.6 30 DAY AVG	26.6 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.021	0.037	( 03)	-----	-----	-----	---	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-----	-----	-----	---		DAILY	TOTALIZ.
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			815	406-3800	10	01	21
Daniel J. Enright Site Vice President			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

D01 0  
DISCHARGE NUMBER

MAJOR (SUFR 01)  
F - FINAL  
RADWASTE TREATMENT (FORMER 001D)  
EFFLUENT


FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
0	9	1	2	0	1	0	9	1	2	3	1						

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00630 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	< 0.4	< 0.5	( 19)	0	240	CP
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MGL		WEEKLY	COMPOS
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	< 1.4	1.5	( 19)	0	240	GR
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	20.0 DAILY MAX	MGL		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 60060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.022	0.023	( 03)	---	---	---	---	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			815	406-3600	10	01	21
Daniel J. Enright Site Vice President			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
1. Flow existed through this outfall 3 of 31 days during the month.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

E01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER (FORMER 001E)  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010


MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
0	9	1	2	0	1	0	9	1	2	3	1						

From: To:

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	PERMIT REQUIREMENT	---	---	---	---	---	---	( 12)		500	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	---	5.0 MINIMUM	---	9.0 MAXIMUM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---	---	( 26)	---	---	---	( 19)		500	
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT	---	---	( 26)	---	---	---	( 19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	LBS/DY	---	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT	---	---	( 26)	---	---	---	( 19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	---	---	( 26)	---	0.10	0.27	( 19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	LBS/DY	---	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	---	---	( 26)	---	---	---	( 19)		500	
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT	---	---	( 26)	---	---	---	( 19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	LBS/DY	---	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Daniel J. Enright			815 406-3600	10	01	21
Site Vice President			AREA CODE	NUMBER	YEAR	MONTH
TYPED OR PRINTED						

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- Flow existed through this outfall 1 of 31 days during the month.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60556

IL0048313  
PERMIT NUMBER

E01 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER (FORMER 001E)  
STORMWATER

FACILITY Byron Nuclear Power Station  
LOCATION 4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
0	9	1	2	0	1	0	9	1	2	3	1						

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NICKEL, TOTAL (AS NI) 01067 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
ZINC, TOTAL (AS ZN) 01082 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---			( 19)		500	
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MGL		DAILY	GRAB
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 26)	---	< 1.4	< 1.4	( 19)	0	290	GR
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	20.0 DAILY MAX	MGL		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.005	0.005	( 03)	---	---	---	---	0	290	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		TWICE/MONTH	TOTALIZ
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE  
PRINCIPAL EXECUTIVE OFFICER  
  
Daniel J. Enright  
Site Vice President  
  
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

*DJ Enright*  
SIGNATURE OF PRINCIPLE  
EXECUTIVE OFFICER OR  
AUTHORIZED AGENT

TELEPHONE		DATE		
815	406-3600	10	01	21
AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

001 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
COOLING SYSTEM BLOWDOWN  
EFFLUENT

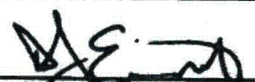
FACILITY LOCATION Byron Nuclear Power Station  
4450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD																	
YEAR			MONTH			DAY			YEAR			MONTH			DAY		
From:	0	9	1	2	0	1	To:	0	9	1	2	3	1				

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		---	---	---	8.71	---	8.76	( 12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE		---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
COPPER, TOTAL (AS CU)		---	---	( 26)	---	---	---	( 19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.071 DAILY MAX	MG/L		WEEKLY	GRAB
ZINC, TOTAL (AS ZN)		---	---	( 26)	---	---	0.03	( 19)	0	240	GR
01092 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	1.0 DAILY MAX	MG/L		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL		---	---	( 26)	---	---	---	( 19)		500	
34044 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.05 DAILY MAX	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		20.20	26.10	( 03)	---	---	---	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE		REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL		---	---	( 26)	---	0.06	0.20	( 19)	0	240	GR
50060 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.2 30 DAY AVG	0.5 DAILY MAX	MG/L		WEEKLY	GRAB
HYDRAZINE		---	---	( 26)	---	---	---	( 19)		500	
81313 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	---	0.031 DAILY MAX	MG/L		DAILY WHEN DISCHARGING	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Daniel J. Enright			815 406-3600	10	01	21
Site Vice President			AREA CODE	NUMBER	YEAR	MONTH

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
Per Special Condition 4C., the maximum allowable blowdown temperature calculation results are provided on the attachment

SEE ATTACHED  
EPA Form 3320-1 (Rev 3/90)



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

002 0  
DISCHARGE NUMBER

MAJOR (SUBR 01)  
F - FINAL  
STORMWATER RUNOFF BASIN OVERFLOW  
STORMWATER

FACILITY LOCATION Byron Nuclear Power Station  
14450 North German Church Road  
Byron, IL 61010

MONITORING PERIOD

YEAR	MONTH	DAY	YEAR	MONTH	DAY
0 9 1 2 0 1	To:	0 9 1 2 3 1			

\*\*\* NO DISCHARGE  \*\*\*

NOTE: Read instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT / PERMIT REQUIREMENT	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		---	---	---		---		( 12 )			
00400 1 0 0 EFFLUENT GROSS VALUE		---	---	---	8.0 MINIMUM	---	9.0 MAXIMUM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED		---	---	( 26 )				( 19 )			
00530 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)		---	---	( 26 )				( 19 )			
01032 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.1 30 DAY AVG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)		---	---	( 26 )				( 19 )			
01034 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)		---	---	( 26 )				( 19 )			
01042 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.5 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE)		---	---	( 26 )				( 19 )			
01045 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)		---	---	( 26 )				( 19 )			
01051 1 0 0 EFFLUENT GROSS VALUE		---	---	LBS/DY	---	0.2 30 DAY AVG	0.4 DAILY MAX	MG/L		DAILY	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
			815 406-3600	10 01 21			
Daniel J. Enright Site Vice President			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

- No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- This discharge point was not used this month.



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

OCR0501

PERMITTEE NAME/ADDRESS  
NAME Exelon Generation Co., LLC  
ADDRESS 4300 Winfield Road  
Warrenville, IL 60555

IL0048313  
PERMIT NUMBER

002 0  
DISCHARGE NUMBER

MAJOR  
(SUBR 01)  
F - FINAL  
STORMWATER RUNOFF BASIN OVERFLOW  
STORMWATER

FACILITY LOCATION Byron Nuclear Power Station  
4450 North German Church Road  
Byron, IL 61010


MONITORING PERIOD

From:	YEAR	MONTH	DAY	To:	YEAR	MONTH	DAY
	0	9	1	2	0	1	1

... NO DISCHARGE  ...

NOTE: Read instructions before completing this form

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
NICKEL, TOTAL (AS NI) 01087 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 28 )	---			( 19 )			
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
ZINC, TOTAL (AS ZN) 01092 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 28 )	---			( 19 )			
	PERMIT REQUIREMENT	---	---	LBS/DY	---	1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
OIL AND GREASE 03582 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---	---	( 28 )	---			( 19 )			
	PERMIT REQUIREMENT	---	---	LBS/DY	---	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		TWICE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT			( 03 )	---	---	---	---			
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		TWICE/MONTH	TOTALIZ
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	 SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
Daniel J. Enright			815 406-3800	10	01	21
Site Vice President			AREA CODE	NUMBER	YEAR	MONTH

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)



**ATTACHMENT TO  
COOLING SYSTEM BLOWDOWN LINE (Outfall 001)  
DISCHARGE MONITORING REPORT  
For Exelon Byron Station  
Permit IL0048313  
December 2009**

**BLOWDOWN TEMPERATURE MONITORING:**

<b>Date</b>	<b>Calculated Maximum Allowable Blowdown Temp. (Degrees F)</b>	<b>Maximum Actual Blowdown Temp. (Degrees F)</b>
12/05/09	120	68.4
12/13/09	120	70.5
12/19/09	120	67.2
12/26/09	120	64.0

**Note:** Station procedures derive the *Calculated Maximum Allowable Blowdown Temperature* based on existing Rock River temperature and a calculated maximum river temperature increase. When the arithmetic sum of these values exceeds 120 degrees Fahrenheit, the *Calculated Maximum Allowable Temperature* limit defaults to 120 degrees Fahrenheit.

**HYDRAZINE MONITORING:**

There were no steam generator chemical cleaning solutions (or associated rinses) containing hydrazine discharged to the Cooling System Blowdown during the month of December 2009.

**TOTAL QUANTITY DISCHARGED: N/A**

**TOTAL DURATION OF DISCHARGE: N/A**



**ATTACHMENT TO  
COOLING SYSTEM BLOWDOWN LINE (Outfall 001)  
DISCHARGE MONITORING REPORT (Page 2)  
For Exelon Byron Station  
Permit IL0048313  
December 2009**

**COMMENTS:**

1. The weekly halogen concentration curves and daily halogen dosing time reports are attached.
2. Bromine was not used this month.
3. There was no discharge of steam generator chemical cleaning wastewater containing hydrazine in this month.
4. Flow existed through this outfall 31 of 31 days.



**EXELON**  
**BYRON STATION**  
 Permit IL0048313  
**WEEKLY HALOGEN DOSING INFORMATION**

Date	Dosing Time (Minutes)	
	U-1	U-2
12/01/09	18	18
12/02/09	18	18
12/03/09	20	20
12/04/09	18	18
12/05/09	18	18
12/06/09	18	18

**HALOGEN DOSING CURVE**

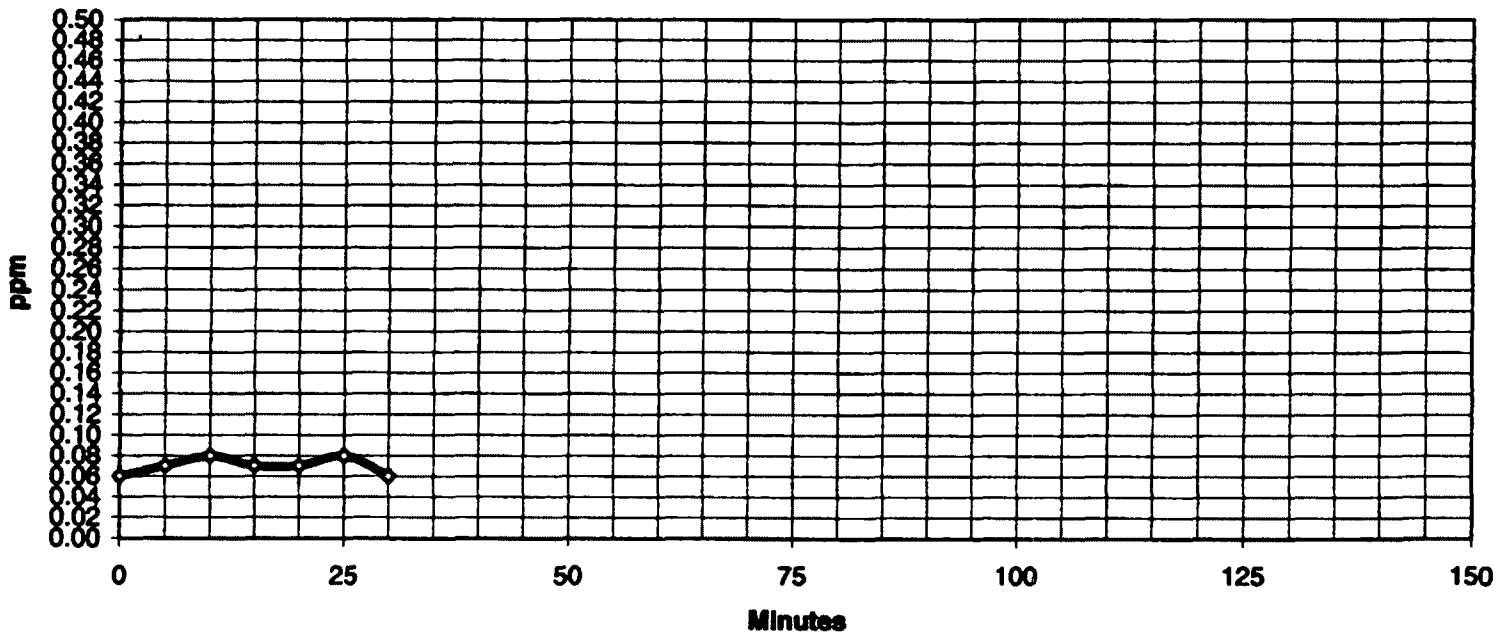
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 12/02/09  
 Time: 11:20

Analyzed by: D.L.  
 Reviewed by: D. M.

Unit: 2

**Note:** The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.



EXELON  
 BYRON STATION  
 Permit IL0048313  
 WEEKLY HALOGEN DOSING INFORMATION

Date	Dosing Time (Minutes)	
	U-1	U-2
12/07/09	20	20
12/08/09	20	20
12/09/09	20	20
12/10/09	20	20
12/11/09	0	0
12/12/09	0	0
12/13/09	0	0

HALOGEN DOSING CURVE

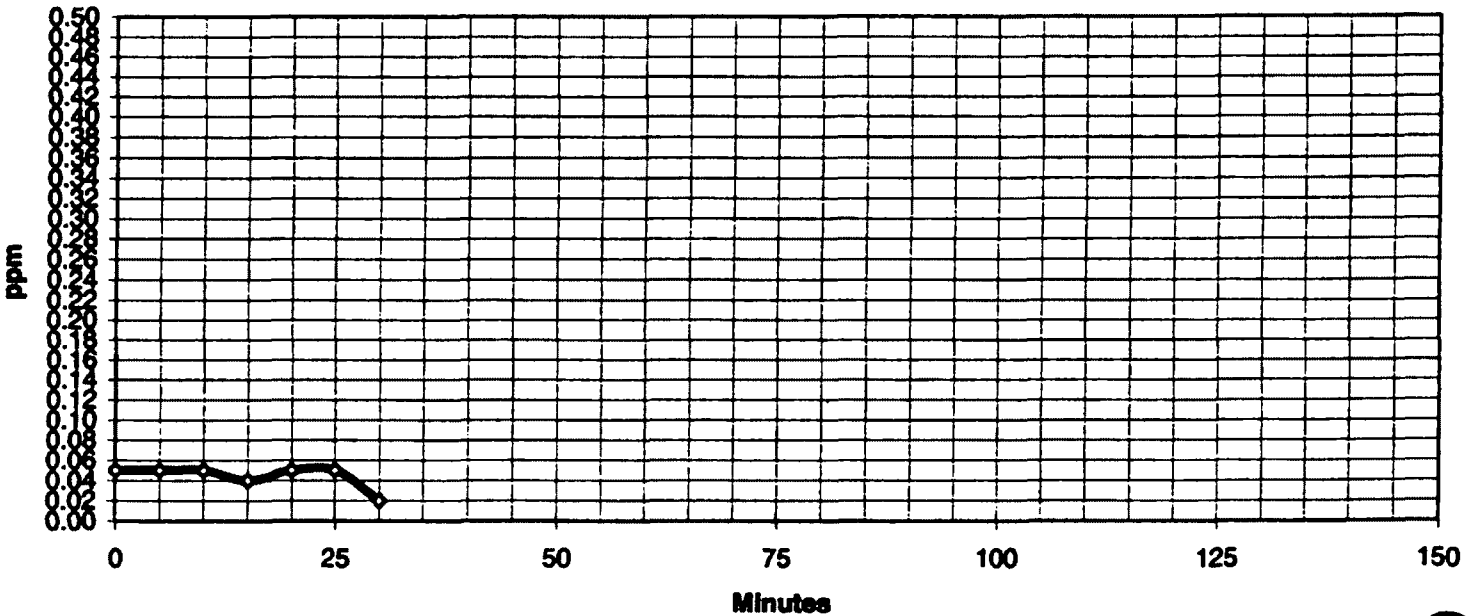
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 12/07/09  
 Time: 12:40

Analyzed by: G.S.  
 Reviewed by: D. M.

Unit: 1

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.





**EXELON**  
**BYRON STATION**  
 Permit IL0048313  
**WEEKLY HALOGEN DOSING INFORMATION**

Date	Dosing Time (Minutes)	
	U-1	U-2
12/14/09	20	20
12/15/09	16	20
12/16/09	20	20
12/17/09	20	20
12/18/09	20	20
12/19/09	18	18
12/20/09	18	19

**HALOGEN DOSING CURVE**

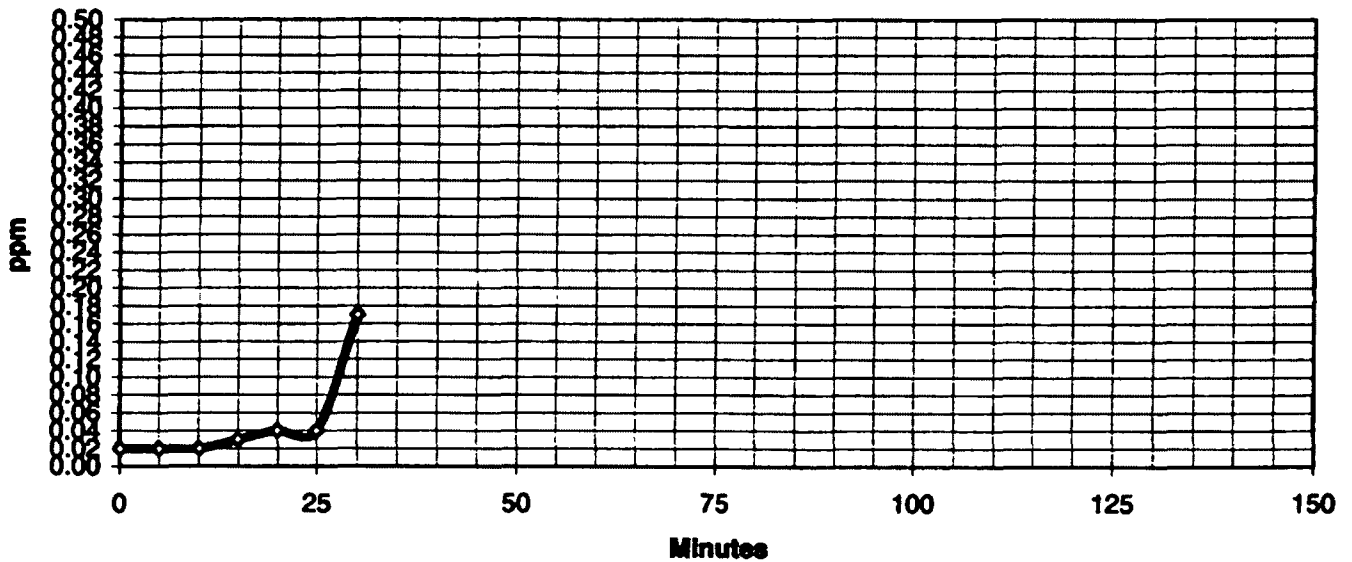
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 12/14/09  
 Time: 11:45

Analyzed by: E. G.  
 Reviewed by: D. M.

Unit: 1

**Note:** The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.



**EXELON**  
**BYRON STATION**  
 Permit IL0048313  
**WEEKLY HALOGEN DOSING INFORMATION**

Date	Dosing Time (Minutes)	
	U-1	U-2
12/21/09	18	19
12/22/09	19	19
12/23/09	18	17
12/24/09	18	18
12/25/09	20	20
12/26/09	20	20
12/27/09	20	20

**HALOGEN DOSING CURVE**

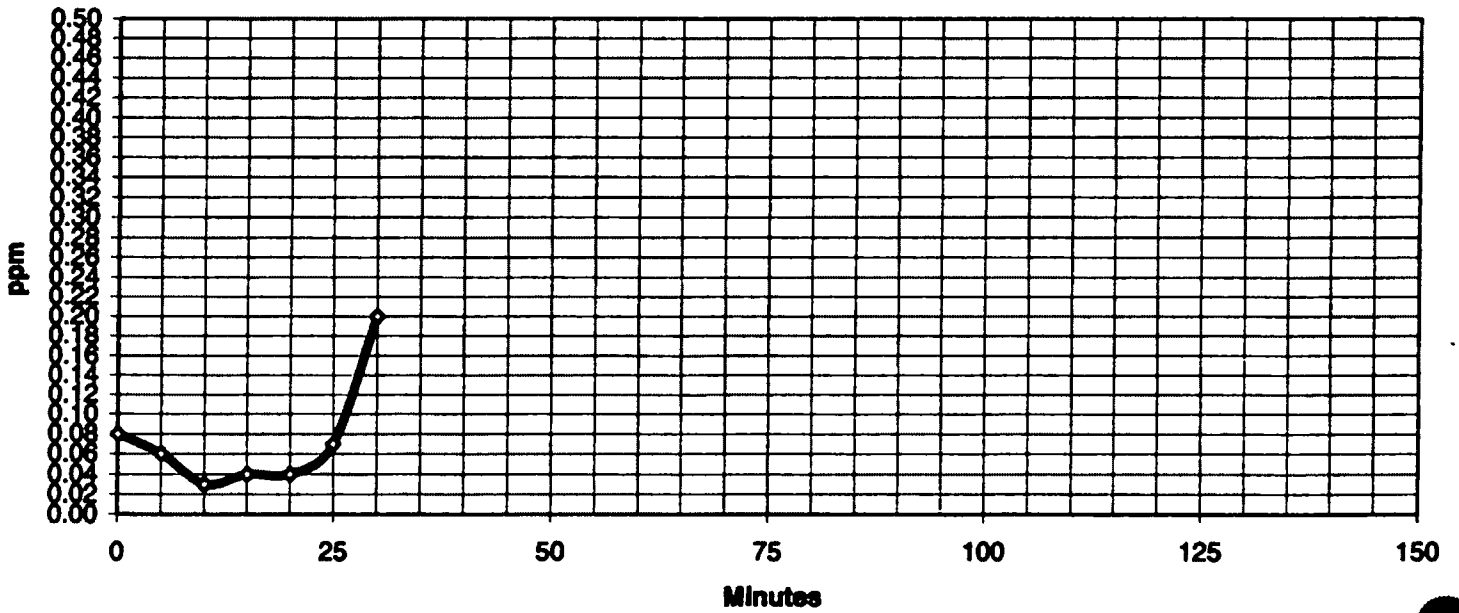
Concentration of total residual chlorine/halogen  
 vs. minutes of chlorination period.

Date: 12/21/09  
Time: 13:36

Analyzed by: J.W.  
Reviewed by: M. H.

Unit: 1

**Note:** The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.





EXELON  
BYRON STATION  
Permit IL0048313  
WEEKLY HALOGEN DOSING INFORMATION

Date	Dosing Time (Minutes)	
	U-1	U-2
12/28/09	17	16
12/29/09	17	17
12/30/09	20	18
12/31/09	17	18

HALOGEN DOSING CURVE

Concentration of total residual chlorine/halogen  
vs. minutes of chlorination period.

Date: 12/28/09  
Time: 13:03

Analyzed by: M.P.  
Reviewed by: D. M.

Unit: 2

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All values less than this limit are reported for information only.

