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

August 20, 2009

LTR: BYRON 2009-0087

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 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 July 1, 2009 through July 31, 2009.

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

Respectfully,

Bradley J. Adams Plant Manager

**Byron Nuclear Generation Station** 

BJA\ZC\sdk

**Attachments** 

			: 1	NATIONAL PO	LLUTANT D	ISCHARGE E	LIMINATION SYST	TEM (NPDES)							
PERMITTEE NAME ADDRESS	E NAME/ADDRES Exelon General 4300 Winfield F Warrenville, IL (	ion Co., LLC loed		ILO	048313 T NUMBER		A01 0 DISCHARGE NU	MBER	MAJOR (SUBR 01) F - FINAL	er.	OCR0501  REGENERATE (0				
FACILITY LOCATION	Byron Nuclear F 4450 North Ger Byron, IL 61010	man Church Road	From:	YEAR M 0 9 0	ONTH D	IONITORING PE AY 1 To:	RIOD YEAR MONTH 0 9 0 7	DAY 3 1	*** NO DISCHARGE						
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SOLIDS, TO SUSPENDE	:D	SAMPLE MEASUREMENT	AVERAGE	MAXIMUM	( 26)	MINIMUM	AVERAGE < 0.9	MAXIMUM < 0.9	UNITS	EX	ANALYSIS	TYPE			
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(AS CR) 01032 1	I, HEXAVALENT	SAMPLE MEASUREMENT	ASUREMENT PERMIT		( 28)			Jose Francis	( 19)	8624	SOO SOO				
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(AS CR) 01034 1 (	0 0 GROSS VALUE	MEASUREMENT PERMIT	8		( 26)		1.0	2.6	( 19)		500				
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IRON, TOTAI (AS FE) 01045 1		SAMPLE MEASUREMENT PERMIT		***************************************	( 26)			DAILYMAX	( 19)		500				
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NICKEL, TOT (AS NI)	BROSS VALUE	SAMPLE MEASUREMENT			LBS/DY ( 26)		30 DAY AVG	DARLY MAX	MG/L		DAILY	GRAB			
01067 1	0 0	PERMIT	7.24		LBERTY	Within a provinti All the	10***	****	( 19)		500				

NAME/TITLE l certify under penalty of law that this document and all attachments were prepared under my PRINCIPAL EXECUTIVE OFFICER Bradley J. Adams

If deriny under pensity or taw mat 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, submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting later information, including the possibility of line and imprisionment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR

**AUTHORIZED AGENT** 

30 DAY AVG DAILY MAX

TELEPHONE DATE 815 406-3700 09 08 20 AREA NUMBER YEAR MONTH DAY

DAILY

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

- 1. There was no discharge of processed steam generator chemical cleaning waste water during this month.
- 2. Flow existed 29 of 31 days during this month.

EPA Form 3320-1 (Rev 3/99)

Plant Manager

TYPED OR PRINTED

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GRAB

				DIS	CHARGE	MONITORING F	REPORT (DMR)				OCR0501	
NAME	NAME/ADDRESS Exelon Generation			IL004	9919	— n	A01 0		MAJOR			
ADDRESS	4300 Winfield Ro			PERMIT			DISCHARGE NU	MBER	(SUBR 01) F - FINAL			
	Warrenville, IL 6									LIZER F	REGENERATE (O	(A10)
					M	ONITORING PERI	00		EFFLUENT			
FACILITY	Byron Nuclear P			YEAR MO		AY Y	EAR MONTH	DAY			. 1 <u> </u>	
LOCATION	TO CHAIN TO SERVICE STREET	nan Church Road	From:	0 9 0	7 0	1 To: 0	9 0 7	3 1	••	. NO DI	SCHARGE	]
	Byron, IL 61010											
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PAR	AMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUN	UNITS	NO. EX	OF ANALYSIS	TYPE
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(AS ZN) 01092 1	0 0	MEASUREMENT	-7.0 C   Page   1.00			Elite Theorem	1.0	20	\ \ '.''	7 (80) (10)		
	GROSS VALUE	REQUIREMENT			LBS/DY	-	30 DAY AVG	DARLY MA	MG/L	27	DAILY	GRAB
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EFFLUENT	GROSS VALUE	REQUIREMENT	30 DAY ANG	DAILY MAX					467	11.00	3 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	7.2 9 9 K 3 K
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		REQUIREMENT								22		And the second
	ME/TITLE XECUTIVE OFFICER			nt and all attachments w			11	111	TELEPHONE		DATE	
		properly gather and eval	tute the information at	ibmitted. Based on my i	nguity of the pe	reon or persons	Swalley of	tela -	815 408-3700	-		1
Bradie	ey J. Adams	who manage the system information submitted is,	i, or those persons di , to the best of my kni	rectly responsible for gat owledge and belief, true.	hering the infor accurate, and	nation, the	SIGNATURE OF PE		013   400-3700	09	08	20
Andrew Control of the	t Manager	aware that there are signifine and imprisionment for	nificant penalties for s	ubmitting false informati	on, including the	possibility of	EXECUTIVE OFFI		REA NUMBER	YEAR	MONTH	DAY
COMMENTS	O OR PRINTED						AUTHORIZED A	VGENT C	ODE TOMECT	1	1	1 "

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PAGE 2 OF 2

EPA Form 3320-1 (Rev 3/99)

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(SUBR 01)

F - FINAL

PERMI	TTEE	NAM	E/A[	DOF	ESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60655

FACILITY **Byron Nuclear Power Station** LOCATION 4450 North German Church Road

DISCHARGE NUMBER

0 9

DAY

0 1

11 0048313

MONTH

0

YEAR

0 9

From:

MONITORING PERIOD YEAR MONTH DAY

0 7

3

R01 0

EFFLUENT \*\*\* NO DISCHARGE

STP EFFLUENT (FORMER 0018)

Byron, IL 61010 NOTE: Read instructions before completing this form FREQUENCY QUANTITY OR LOADING QUANTITY OR CONCENTRATION SAMPLE PARAMETER OF EX TYPE **AVERAGE** MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS ANALYSIS BOD, 5-DAY SAMPLE DC < 0.27 0.33 (26) < 8.3 13.0 ( 19) 0 290 (20 DEG. C) MEASUREMENT 00310 1 0 0 28.6 142 300 60.0 TWICE/ COMP24 LBS/DY MG/L DAILY MAX DAILY MAX EFFLUENT GROSS VALUE REDUREMENT 30 DAY AVG 30 DAY AVG MONTH SAMPLE PH ( 12) 290 GR 7.02 7.27 MEASUREMENT 00400 1 0 0 6 6.27 6.0 9.0 TWICE PERMIT CAN DIE GRAS SU **GOLL** MANDENILIM HTMOM EFFLUENT GROSS VALUE RECLUREMENT SOLIDS, TOTAL SAMPLE 0.051 0.055 290 DC (26) 1.5 22 (19) 0 SUSPENDED MEASUREMENT 00530 1 0 0 TWICE PERMIT 142 28.5 200 **60** 0 LBS/DY COMPA MG/L EFFLUENT GROSS VALUE REQUIREMENT DAILY MAX 20 DAY AVG DAILY MAX MONTH 30 DAY AVG FLOW, IN CONDUIT OR SAMPLE 0.005 0.008 (03) 0 135 CN THRU TREATMENT PLANT MEASUREMENT 50050 1 0 0 REPORT REPORT (5) TO 12 MGD DALY CONTIN EFFLUENT GROSS VALUE DAILY MAX 30 DAY AVE SAMPLE MEASUREMENT PERMIT RECLIREMENT BAMPLE MEASUREMENT PERMIT 0.000 1 1 1 79 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalual the information submitted. Based on my inquiry of the person or persons 406-3700 615 who manage the system, or those persons directly responsible for gathering the information, the Bradley J. Adams 09 08 20 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 SIGNATURE OF PRINCIPLE Plant Manager **EXECUTIVE OFFICER OR** AREA NUMBER YEAR MONTH DAY ine and imprisionment for knowing violations. TYPED OR PRINTED **AUTHORIZED AGENT** 

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

- 1. Flow existed through this outfall 28 of 31 days during the month.
- 2. BOD result for July 21, 2009 is an estimated value only because the seed depletion was outside the method acceptance limits.

EPA Form 3320-1 (Rev 3/99)

SD

PAGE 1 OF 1

NAME/ADDRESS		

2. Flow existed through this outfall 19 of 31 days during the month.

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NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

C01 0 DISCHARGE NUMBER

		MONITORING PERIOD													
	YEAR		MONTH		DAY			YE	AR	MO	NTH	DAY			
From:	0	9	0	7	0	1	To:	0	9	0	7	3	1		

OCR0501

MAJOR (SUBR 01) F - FINAL

SD

WWTP (FORMER 001C) EFFLUENT

··· NO DISCHARGE

PAGE 1 OF 2

PARAMETER		QUA	NTTTY OR LOADIN	G		QUANTITY OR CON			NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			( 28)	-	1.9	2.6	( 19)	0	240	DC
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT	<u> </u>		LBS/DY		15.0 30 DAY AVG	DARY MAX	MG/L		WEBQY	COMPA
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		1000	LBS/DY		0.1 30 DAY AVG	DARYMAX	MG/L	/48h	DARLY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT			( 26)	-			( 19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT	-		LBS/DY		30 DAY AWG	DARLY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT	-		LBS/DY		0.5 30 DAY AVG	DARLY MAX	MGAL		DARY	GRAS
RON, TOTAL (AS FE) 01045 1 0 0	SAMPLE MEASUREMENT		-	( 26)				( 19)		500	
EFFLUENT GROSS VALUE	PERMIT REDUREMENT			LBS/DY	-	1.0	DALVMAX	MG/L	140	DALLY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT		·	( 28)				( 19)		500	
01061 1 0 0 EFFLUENT GROSS VALUE	PERMIT REGULARIMENT	-		LBS/DY		0.2 30 DAY AWS	DALLY MAX	MG/L	Santa.	DAILY	GRAS
AS NI)	SAMPLE MEASUREMENT		-	( 26)			FI 3	( 19)	E/CTY CA	500	
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY		1.0 30 DAY AVG	DAR Y MAX	MG/L	Sec. 3.	DARY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of a direction or supervision in	accordance with a m	stem decioned to see	on that mailing a		2 1/1	7.1	ELEPHONE		DATE	
Bradley J. Adams	properly gather and evaluation manage the system, information submitted is, t	the the information sub or those persons dire to the best of my know	omitted. Based on my incident the same control of the control of t	inquiry of the pers hering the inform accurate and co	on or persons titlon, the	SIGNATURE OF PRI	Adam 81	5 408-3700	09	08	20
Plant Manager TYPED OR PRINTED	aware that there are signi fine and imprisionment to	filcant penalties for su	bmitting false informati	on, including the	possibility of	EXECUTIVE OFFICE AUTHORIZED AG		"I NUMBER	YEAR	MONTH	DAY

### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

#### PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

## **DISCHARGE MONITORING REPORT (DMR)**

IL0048313 C01 0 DISCHARGE NUMBER PERMIT NUMBER

					M	ONITO	DRING I	PERIC	00				
YEAR		MO	NTH	D/	AY		YE	AR	MO	NTH	DAY		
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OCR0501

MAJOR (SUBR 01) F-FINAL

WWTP (FORMER 001C) EFFLUENT

PARAMETER		QUAI	NTITY OR LOADIN	g	0	UANTITY OR CON	CENTRATION	1	NO.	FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMU	M UNITS	EX	OF ANALYSIS	TYPE
INC, TOTAL AS ZN)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
1092 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY		30 DAY AVG	DALYM		2	DARLY	GRAS
OIL AND GREASE	SAMPLE MEASUREMENT			( 26)		< 1.5	1.8	( 19)	0	240	GR
3582 1 0 0 EFFLUENT GROSS VALUE	PERMIT		-	LBS/DY		15.0 30 DAY AVG	20.0 DAILY M	MG/L		WEEKLY	GRAB
LOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.030	0.057	( 03)		•	-	-	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	PREPORT DAILY MAX	MGD	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					DAILY	TOTALE
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Bradley J. Adams	properly gather and eval who manage the system	ute the information su u, or those persons di	formitted. Based on my rectly responsible for ga	inquiry of the po thering the info	erson or persons	IGNATURE OF PR	INCIDI E	815 406-3700	09	08	20
Plant Manager	information submitted is aware that there are sig- tine and imprisionment is	nificant penalties for s	ubmitting false informat	tion, including th	conductor Letter	EXECUTIVE OFFIC		AREA NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED COMMENTS AND EXPLANAT				Maria Ma		AUTHORIZED A	GENT	CODE	IEAN	MICH III	J 501

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PERMITTEE	NAME/ADDRESS								_							MAJOR
NAME	Exelon Generation Co., LLC				ILOO	48313	3		]			00	1 0			(SUBR 01)
ADDRESS 4300 Winfield Road				PERMIT NUMBER						DISCHARGE NUMBER					1	F-FINAL
	Warrenville, IL 60555							_							RADWASTE TREATMENT (FORMER 001D	
								MONITO	DRING	PER	00					EFFLUENT
FACILITY	Byron Nuclear Power Station		YE	RA	MO	HTM		DAY		Y	EAR	MC	HTM		DAY	
LOCATION	4450 North German Church Road	From:	0	9	0	7	0	1	To:	0	9	0	7	3	1	""NO DISCHARGE """
	Byron, IL 61010			and the state					T	Section of						A Company of the Comp

PARAMETER		QUAN	NTTTY OR LOADING	3		NOO RO YTITHAUS	CENTRATION		N	O. FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	4 UNI	TS E	X ANALYSIS	TYPE
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0630 1 0 0 FFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY	AME	35 DAY AVG	DAE Y MA	MG	n.	WEERLY	COMPOS
IL AND GREASE	SAMPLE MEASUREMENT		1 (222-22)	( 26)		< 1.5	2.0	(1	9)	240	GR
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision i		nt and all attachments w			2 11 1	11	TELEPHO	ME	DATE	
Bradley J. Adams	properly gather and evaluation manage the system information submitted is,	ute the information su i, or those persons din	ibmitted. Based on my in rectly responsible for gat	nquiry of the p hering the info	erson or persons	Signature of PR	MOLE/	815 406-	3700	99 08	20
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TYPED OR PRINTED	hand do no midwaren many or	or services of accessors or				AUTHORIZED A	GENT	CODE			

ATTEE		

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY LOCATION 4450 North German Church Road

**Byron Nuclear Power Station** 

Byron, IL 61010

IL0048313 PERMIT NUMBER

E01 0 DISCHARGE NUMBER

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OCR0501

MAJOR (SUBR 01) F-FINAL

STORMWATER (FORMER 001E)

STORMWATER

					_	M
•	٠	NO	DISCH	ARGE		

						**********	251577177011			FREQUENCY	
PARAMETER		QUA	NTITY OR LOADING	6		UANTITY OR CON			NO.	OF	SAMPLI
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EA	ANALYSIS	TITE
РН	SAMPLE MEASUREMENT		<del>                                      </del>			( <del></del>		( 12)		500	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT				6.0 ACREDANA		MAXEMENT	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			( 26)				( 19)		500	
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT		1.2	LBS/DY		30 DAY AVA	DAILY MAX	MG/L		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT		( <del></del>	( 26)				( 19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECURRENCENT			LBS/DY		0.1 30 DAY AVG	DALY MAX			DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PENIL		- 61	LBS/DY	<u> </u>	1.0 30 DAY AVB	DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	Anno Anno Anno Anno Anno Anno Anno Anno		( 26)				( 19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT	4	<u> </u>	LBS/DY		0.5 30 DAY AVB	DALYMA	MG/L		DAILY	GRAS
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT		*******	( 26)				( 19)		500	
01046 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECOURSMENT	-	-14	LBS/DY		3D DAY AVG	DAILY MAX	MG/L		DAILY	GRAS
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT		**************************************	( 26)				( 19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1		LBS/DY		0.2 30 DAY AVG	DAILY MAD			DAILY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision					3 11 11	1/2	TELEPHONE		DATE	3,400
Bradley J. Adams	properly gather and eval who manage the system information submitted is.	Lite the information s i, or those persons di , to the best of my kn	ibmitted. Based on my rectly responsible for gr owledge and belief, true	inquiry of the pe sharing the infor a accurate, and o	rean or persons American, the complete. I am	SIGNATURE OF PR	The second liverage and the se	315 408-3700	09	08	20
Plant Manager TYPED OR PRINTED	aware that there are sig- fine and imprisionment f			tion, including the	poseibility of	EXECUTIVE OFFICE AUTHORIZED A		REA NUMBER	YEAR	MONTH	DAY

#### 'S AND EXPLANATION OF ANY VIOLATIONS (Reference all attachmente here)

- 1. No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 3. Flow existed through this outfall 6 of 31 days during the month.

EPA Form 3320-1 (Rev 3/99)

SD

PAGE OF 2

							MINATION SYST	EM (NPDES)				
PERMITTEE	NAME/ADDRES	s		OR	SCHARGE	MONITORING I	REPORT (DMR)				OCR0501	
NAME	Exelon Generat			ILOG	48313		<b>E</b> 01 0		MAJOR			
<b>ADDRESS</b>	4300 Winfletd R	load			NUMBER		DISCHARGE NU	MRER	(SUBR 01) F - FINAL	)		
	Warrenville, IL (	30665		Territoria de la composición dela composición de la composición de la composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición dela composic						ATER (F	ORMER 001E)	
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FACILITY	Byron Nuclear F	rower Station man Church Road		Sand Street, or other Persons and Persons and Persons are not as the	-	The state of the s	EAR MONTH	DAY				
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PA	VAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	OF ANALYSIS	SAMP
NICKEL, TO (AS NI) 01067 1	TAL 0 0	SAMPLE MEASUREMENT			( 26)				( 19)		500	
EFFLUENT	GROSS VALUE	PERMIT	-	-	LBS/DY	-	1.0 30 DAY AVG	DAILY MAX	MG/L		DAILY	GRA
ZINC, TOTA (AS ZN)		SAMPLE MEASUREMENT			( 26)				( 19)		500	
	0 0 GROSS VALUE	PERMIT RECLUREMENT		-	LBS/DY		30 DAY AVE	2.6 DAILY MAX	MG/L		DAILY	GRA
OIL AND GR	2000 (1000) 2000 (1000)	SAMPLE MEASUREMENT			( 26)		4.2	6.5	( 19)	0	290	GR
	GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG.	20.0 DAILY MAX	MGAL	DAY.	TWICE/ MONTH	GRA
	TMENT PLANT	SAMPLE MEASUREMENT	0.104	0.284	( 03)					0	290	TM
50050 1 EFFLUENT	0 0 GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVS	REPORT DAILY MAX	MGD	-	200			100	TWICE/	TOTAL
		SAMPLE MEASUREMENT										
		PERMIT RECLUREMENT										
		SAMPLE MEASUREMENT										
		PERMIT REQUIREMENT				1.7				6		Chapte.
		SAMPLE	:							13643.4	30	

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 time and imprisionment for knowing violations.

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

TELEPHONE DATE 815 408-3700 09 08 20 AREA NUMBER YEAR MONTH DAY

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

EPA Form 3320-1 (Rev 3/99)

PAGE 2 OF 2

80

PERMITTEE NAME/ADDRE	SS			SCHARGE I	MONITORIN	G REPORT (DMR)				OCR0501	
NAME Exelon Genera			ILOC	M8313	— 1 F	001 0		MAJOR			
ADDRESS 4300 Winfield	10 T T T T T T T T T T T T T T T T T T T		PERMIT	NUMBER		DISCHARGE NU	MBER	(SUBR 01	•		
Warrenville, IL	60555							-		M BLOWDOWN	
FACILITY Byron Nuclear	Power Station		VEAD TO		ONITORING PE			EFFLUEN		- J-011J01111	
LOCATION 4450 North Ge	rman Church Road	From:	YEAR MC	7 0		YEAR MONTH	DAY			. : ::::::::::::::::::::::::::::::::::	
Byron, IL 6101		7.4		1,10		0 9 0 7	3 1	•	NO D	ISCHARGE	] •••
								<b>T.</b> D	2010.22		
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EFFLUENT GROSS VALUE	RECAUREMENT				MORAL AND		9.0	su	S2000	9	1000 200
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01042 1 0 0	MEASUREMENT			(26)			0.014	( 19)	0	240	GR
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ZINC, TOTAL (AS ZN)	SAMPLE			1.00		The second secon	DAILY MAX	- III.JL		WELVL	GRAB
01082 1 0 0	MEASUREMENT			(26)	********		0.025	( 19)	0	240	GR
EFFLUENT GROSS VALUE	REQUIREMENT	The second second	-	LBS/DY		1	1.0	MG/L	1636	WEBLY	GRAD
OXIDANTS, TOTAL RESIDUAL	SAMPLE			( 26)		+	DAIL Y MAX		1235		Good
34044 1 0 0	MEASUREMENT	and the second s		(20)	**********			( 19)		500	
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FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	21,96	28.99	( 03)			DALYMAX		1000		
50050 1 0 0	PERMIT	REPORT	REPORT	, (0)					0	135	CN
EFFLUENT GROSS VALUE	REQUIREMENT	30 DAY AVE	DAILYMAX	MGD			100	l		DALLY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT			( 26)				-			Continue
50060 1 0 0	PERMIT			`'	T-10-11-11-11-11-11-11-11-11-11-11-11-11-	0.14	0.32	( 19)	0	240	GR
EFFLUENT GROSS VALUE	REQUIREMENT	-		LBS/DY		8.2 30 DAY AVG	DAELY MAX	MG/L	15.50	WEERLY	GRAB
HYDRAZINE	SAMPLE MEASUREMENT			( 26)				I waste	A275877	A 1675	
81313 1 0 0	PERMIT		70.0	1				( 19)		500	
EFFLUENT GROSS VALUE	REQUIREMENT			LBS/DY	-		DAILY MAX	MG/L		DAILY WHEN	GRAS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penelty of to	law that this document	and all attachments w	ere prepared unde	of they	0111				DISCHARGING	The state of
	properly gather and evalu	in the information was	stem designed to assu	re that qualified pr	ersannel	Swally !	Iday TE	LEPHONE		DATE	
Bradley J. Adams	who manage the system, information submitted is, t					747	615	406-3700	09	08	
Plant Manager			mitting false informatio	accurate, and con in, including the p	nplete. I am	SIGNATURE OF PRI			0.9		20
TYPED OR PRINTED	and architecturing ICI	HADWARD AND STRONG				AUTHORIZED AG		NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANAT	TION OF ANY VIOLAT	IONS (Reference	all attachments h	ere)			ENT CODE	L			
Per Special Condition 4C., the	maximum allowable bi	owdown temperati	ure calculation resu	ults are provide	d on the attach	ment					
SEE ATTACHED											
CE ATTACHED											

EPA Form 3320-1 (Rev 3/99)

#### IL0048313 PERMIT NUMBER

PERMITTEE NAME/ADDRESS

ADDRESS 4300 Winfield Road

Exelon Generation Co., LLC

**Byron Nuclear Power Station** 

Warrenville, IL 60655

LOCATION 4450 North German Church Road

Byron, IL 61010

NAME

FACILITY

002 0 DISCHARGE NUMBER

MONITORING PERIOD YEAR MONTH DAY YEAR MONTH DAY From: 0 9 0 7 0 1 To: 0 9 0 7 3 1 OCR0501

MAJOR (SUBR 01) F - FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

... NO DISCHARGE X ...

PARAMETER		QUA	NTTTY OR LOADIN	G		QUANTITY OR CON			NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
<b>*</b>	SAMPLE MEASUREMENT		GORDHANN			T		( 12)	1		
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECAUPEMENT	-	-		6.0 Mineral par		8.6	SU SU	NGS.	SEE	GRAB
OLIDS, TOTAL USPENDED	SAMPLE MEASUREMENT	-		( 26)				( 19)			
0630 1 0 0 FFLUENT GROSS VALUE	PERMIT			LBS/DY	-	15.0 30 DAY AVS	DALY MAX	MG/L		SEE	GRAS
HROMIUM, HEXAVALENT AS CR)	SAMPLE MEASUREMENT		*******	( 26)				( 19)	- 35 AS	3.2 6 C C C C C C C C C C C C C C C C C C	
1032 1 0 0 FFLUENT GROSS VALUE	PERMIT			LBS/DY	7.00	0.1 30 DAY ANG	DARY MAY	MGAL	7.3	DALY	GRAB
HROMIUM, TOTAL AS CR)	SAMPLE MEASUREMENT			( 26)	Antonio de la companio del companio de la companio del companio de la companio della companio de la companio della companio de			( 19)			
11034 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECURRENCENT			LBS/DY		1.0 30 DAY AVG	20 DAILY MAX	MG/L		DAILY	GRAB
XOPPER, TOTAL AS CU)	SAMPLE MEASUREMENT	•		( 26)				( 19)			
11042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		1	LBS/DY		0.5 30 DAY AMG	DARY MAX	MG/L		DAILY	GRAB
RON, TOTAL AS FE)	SAMPLE MEASUREMENT		-	( 26)				( 19)			
1045 1 0 0 FFLUENT GROSS VALUE	PERMIT RECURRENCENT	2		LBS/DY		1.0 30 DAY AVG	1.0 DARYMAX	MG/L		DALY	GRAB
EAD, TOTAL AS PB)	SAMPLE MEASUREMENT			( 26)				( 19)			
1051 1 0 0 FFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY	-	0.2 30 DAY AWB	DALLYMAX	MG/L		DARLY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of to direction or supervision in	accordance with a m	edem designed to see	as that a selfer	namental	1 11	//	ELEPHONE		DATE	
Bradley J. Adams	who manage the system, information submitted is, t	le the information sub or those persons dire o the best of my kno	milited. Based on my is othy responsible for gat readon and belief, true	nquiry of the pe hering the information	son or persons nation, the	SIGNATURE OF PRI	MCIPLE 81	5 406-3700	09	08	20
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OMMENTS AND EXPLANAT	TON OF ANY VIOLAT	IONS (Reference	all attachments h	200)		AUTHORIZED AC	SENT CO	)E			
<ol> <li>No Turbine buildi</li> </ol>	ing wastewater was di oint was not used this	scharged to the S	tormwater Runoff E	Basin during (	he month.						
PA Form 3320-1 (Rev 3/99)							\$D				

DEDA	ITTEE		-	-	
FERM	HILEE	PLAN.	W-/A	J 12 30	

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, Il 60565

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	002 0
PERMIT NUMBER	DISCHARGE NUMBER

L					M	ONITO	DRING!	PERK	OC OC				
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From:	0	9	0	7	0	1	To:	0	9	0	7	3	1

OCR0501

MAJOR (SUBR 01)

F-FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

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

PARAMETER		QUAN	VITTY OR LOADIN	IG .		QUANTITY OR CON			NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
NICKEL, TOTAL (AS NI)	SAMPLE MEASUREMENT			( 26)	VIII.			( 19)			
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		1.0 30 DAY AVE	DALY MAX	MG/L		DAILY	GRAB
ZINC, TOTAL (AS ZN)	SAMPLE MEASUREMENT			( 28)				( 19)			
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT	<u> </u>		LBS/DY	11	30 DAY AND	DAR Y MAX	MG/L		DAILY	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT			( 26)			D-ELI BOX	( 19)			
03582 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-		LBS/DY	-	15.0 30 DAY AWG	20.0 DAILY MAX	MGAL		TWICE	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			( 03)	•	**************************************	(		1 1 1 1 1	HTMOM A	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 36 DAY AVE	PREPORT DAILY MAX	MGD				<b>a</b>		TWICE/	TOTALE
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT							*			
	PERMIT REQUIREMENT							3	1,220		RATE OF
	SAMPLE MEASUREMENT										
	PERMIT							$\overline{d}$		764	2000年
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	n accordance with a m	see of bonniseb meter	on that a siller	i namanani	3 16.14	the !	ELEPHONE		DATE	
Bradley J. Adams	properly gather and evel who manage the system information submitted is,	, or those persons dire to the best of my know	ictly responsible for ga stackes and belief, true	thering the infor	mation, the	SIGNATURE OF PR	81	406-3700	09	08	20
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment to	dificant penelties for su	bmilting false informat	ion, including th	possibility of	EXECUTIVE OFFIC	- Ivan	A NUMBER	YEAR	MONTH	DAY
						AUTHORIZED A	GENT CO	E	1	1	1

## ATTACHMENT TO COOLING SYSTEM BLOWDOWN LINE (Outfall 001) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 July 2009

#### **BLOWDOWN TEMPERATURE MONITORING:**

Date	Calculated Maximum Allowable Blowdown Temp. (Degrees F)	Maximum Actual Blowdown Temp. (Degrees F)
07/05/09	120	89.5
07/11/09	120	89.4
07/18/09	120	84.3
07/25/09	120	89.1

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 July 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 July 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.

Date		Time utes)	Date	Dosins (Min	
	U-1	<u>U-2</u>		U-1	<u>U-2</u>
07/01/09	45	45	07/08/09	45	45
07/02/09	45	45	07/09/09	45	45
07/03/09	37	37	07/10/09	38	39
07/04/09	38	38	07/11/09	45	40
07/05/09	39	39	07/12/09	45	45
07/06/09	45	45			· · · · · · · · · · · · · · · · · · ·
07/07/09	45	45			·

#### HALOGEN DOSING CURVE

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

Date: 07/06/09

Analyzed by: D.L.

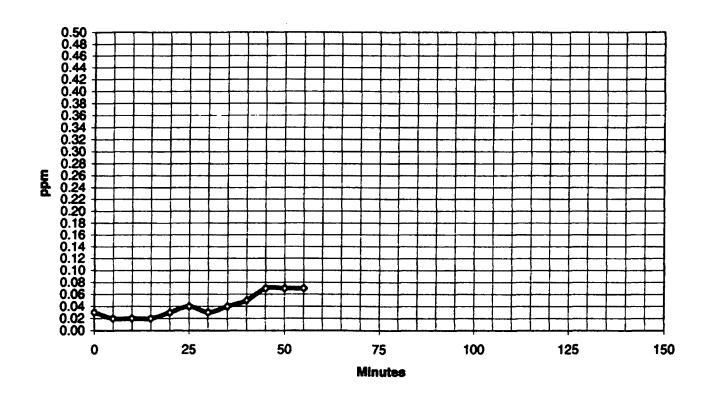
Unit: 1

Time: 11:34

Reviewed by: D.M.

Note:

The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing (Min	z Time utes)
	<u>U-1</u>	<u>U-2</u>
07/13/09	45	45
07/14/09	45	45
07/15/09	45	45
07/16/09	47	45
07/17/09	37	38
07/18/09	38	39
07/19/09	45	45

#### HALOGEN DOSING CURVE

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

Date: 07/13/09

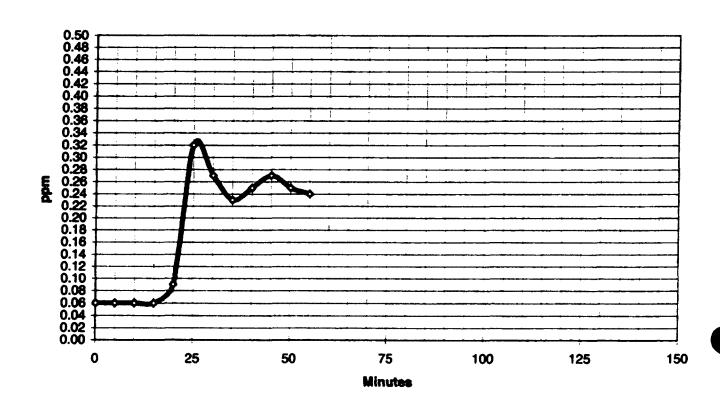
Analyzed by: D. A.

Unit: 2

Time: 11:11

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing (Min	
	U-1	<u>U-2</u>
07/20/09	43	44
07/21/09	43	42
07/22/09	45	42
07/23/09	43	44
07/24/09	40	40
07/25/09	40	40
07/26/09	40	40

#### HALOGEN DOSING CURVE

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

Date: 07/20/09

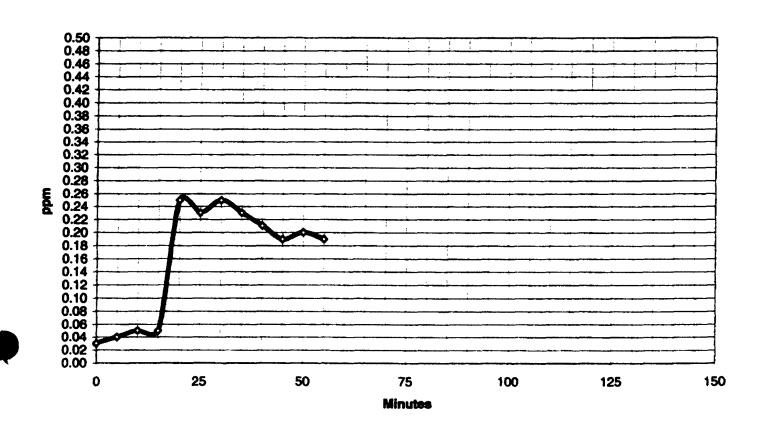
Analyzed by: T. M.

Unit: 1

Time: 11:21

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	<u>Dosing Time</u> (Minutes)						
	<u>U-1</u>	<u>U-2</u>					
07/27/09	45	38_					
07/28/09	45	39					
07/29/09	40	40					
07/30/09	34	35					
07/31/09	36	36					

#### HALOGEN DOSING CURVE

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

Date: 07/27/09

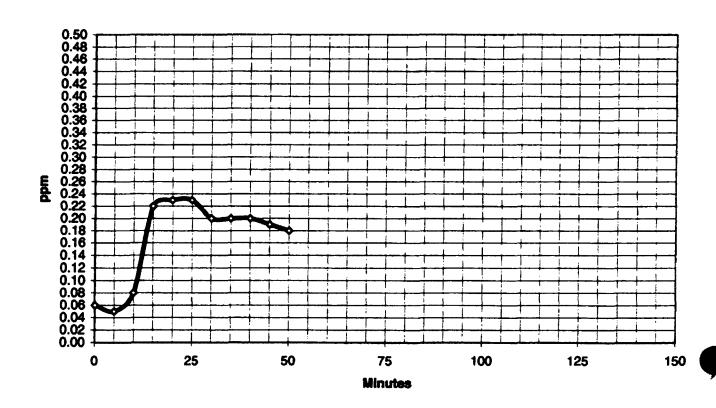
Analyzed by: D.B.

Unit: 2

Time: 11:55

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Bre Cox



Nuclear

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

**September 17, 2009** 

LTR: BYRON 2009-0099

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

www.exeloncorp.com

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 August 1, 2009 through August 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 Plant Manager

**Byron Nuclear Generating Station** 

BJA/ZC

**Attachments** 

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			ILOO				]			A01	0				(SUBR 01)	į		
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From:	0	9	0	8	0	1	To:	0	9	0	8	3	1		••	· NO DI	SCHARGE	] • • •
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-		*******	•	( :	26)			-		<1.5			< 1.5		( 19)	0	285	EC
-				LBS	VDY				30	15.0 DAY A	/G	D	30.0	x	MG/L	4	ONCE/	cours
			•	(:	26)			•							( 19)		500	
				LBS	VDY				30	DAY M	<b>/</b> 0	D	02		MG/L	T.	DALY	GRAB
			•	( :	26)			•							( 19)		500	
71				LBS	VDY				30	1.0 DAY AL	<b>/</b> 13	D	2.0	¥	MG/L		DARY	GRAS
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21 0 2000 0000 000000000000000000000000		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUN	UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	**********		( 28)		<1.5	< 1.5	( 19)	0	285	EC
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT. REQUIREMENT		1	LBS/DY	1	15.0 30 DAY AVG	30.8 DARY MA	MG/L	N.A.	ONCE/	COMP
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT		12.2	LBS/DY		0.1 30 DAY AMG	DALYMA	MG/L	412	DALY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT	<del></del>		( 26)				( 19)		500	
21034 1 0 0 EFFLUENT GROSS VALUE	PERMIT		17.	LBS/DY	4	1.0 30 DAY AVG	2.6 DAR Y MAY	MG/L		DAILY	GRAS
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT	<del></del>		( 26)				( 19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECALIFIEMENT			LBS/DY		0.5 30 DAY AVG	DARY MAX	MG/L		DAILY	GRAB
RON, TOTAL AS FE)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-		LBS/DY		1:0 30 DAY ANG	DARY MAX	MG/L		A DAILY	GRAB
EAD, TOTAL AS PB)	SAMPLE MEASUREMENT	*****	<del></del>	( 26)	*********	::		( 19)		500	
01061 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		-2-11	LBS/DY		0.2 30 DAY AVG	DAILY MAX	MG/L		DAILY	GRAB
NICKEL, TOTAL AS NI)	SAMPLE MEASUREMENT	<del></del>	<b>4800-100</b>	( 26)				( 19)		500	
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-		LBS/DY		1.0 30 DAY AVG	2.0 DARY MAX	MG/L	C-200	DAILY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of i direction or supervision in	accordance with a s	watern designed to see u	hadlings tartt on	namonnal //	1/1/		TELEPHONE		DATE	
Bradley J. Adams	properly gather and evaluate who manage the system information submitted is,	As the information sub or those persons dire	bridded. Based on my ir actly responsible for cett	rquiry of the per	son or persons.	GNATURE OF PRI		115 406-3700	09	09	17
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment to	Donat penalties for as	conting talse information	er, including the		EXECUTIVE OFFICE AUTHORIZED AG	ER OR	REA NUMBER	YEAR	MONTH	DAY

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

PERMITTEE NAME/ADDRESS

PARAMETER

ADDRESS 4300 Winfield Road

Exelon Generation Co., LLC

**Byron Nuclear Power Station** LOCATION 4460 North German Church Road

Warrenville, IL 60555

Byron, IL 61010

NAME

FACILITY

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OCR0501

SD

PAGE 2 OF 2

PERMITTEE	NAME/ADDRES	S						Orm	va ner	ON I (DE	mer)					OCH0501	
	Exelon General	ion Co., LLC			IL004	8313				A01	0		7	MAJOR (SUBR 01)			
	4300 Winfield F			Р	ERMIT N	NUMBER			DI	SCHARGE	E NUM	BER	1	F-FINAL			
	Warrenville, IL	80665					· ·		250.00				_			REGENERATE (	001A)
FACILITY	Byron Nuclear F	Power Station		YEAR	MON		MONITOI DAY	HING	PERIOD	T	<del></del>		4	EFFLUENT	ľ		
LOCATION		man Church Road	From		0	8 0	-	To:				DAY 3 1		••	' NO DI	SCHARGE	]
PAR	METER		QUA	WITHY OR LO	DADING	<del> </del>	QUANTITY OR CONCENTRATION							E: Read inst	NO.	FREQUENCY	g this form
			AVERAGE	MAXIMI	UM	UNITS	MI	NIMU		AVERAG		MAXIM		UNITS	EX.	OF ANALYSIS	TYPE
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	ROSS VALUE	PERMIT REQUIREMENT				LBS/DY		(kc, -)	Control of the Contro	DAY AN	<b>6</b> 9	2.0 DAILY I	ANY	MG/L	W.F.	DAILY	GRAB
	MENT PLANT	SAMPLE MEASUREMENT	0.014	0.068		( 03)	Τ-			-			-		0	136	CN
50050 1 EFFLUENT G	0 0 ROSS VALUE	PERMIT	REPORT 30 DAY AVG	REPOR DAILY M		MGD	1		AST A	7 (1344) 3 (1941)	校長					DAILY	CONTR
		SAMPLE MEASUREMENT									100 - 6202		D COLO		1000		
		PERMIT REQUIREMENT						i.							nIG.	Karana A	
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		PERMIT REQUIREMENT					温度	N F	18 3						<b>指摘</b>		1.3.5
	E/TITLE ECUTIVE OFFICER	Imperior or antiboration to	n accordance with a s	testem designed	to see in	s that resulting	d necessari		_	.1	/	//	TEI	EPHONE	, A8	DATE	
Bradley	J. Adams	properly gather and eval who manage the system information aubmitted is,	use the information su L Of those persons dis	ibmitted. Based rectly responsible	on my inc	quiry of the p	erson or per	raons	Oro	ATVINE OF	A	dan	815	406-3700	09	09	17
The second secon	Manager	aware that there are sign fine and imprisionment to	"licant penalties for s	ubmittino false ir	er, true, a Hormation	unitie, and i, including th	complete. le possibility	of		CUTIVE O			AREA			407	<b>.</b>
COMMENTS A	OR PRINTED							- [	Δı	JTHORIZE	D AGE	INT	CODE	NUMBER	YEAR	MONTH	DAY

EPA Form 3320-1 (Rev 3/99)

PERMITTEE	-	ADDDEDO
LEUMILIEE	TWANTE.	AUURESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station LOCATION 4460 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

B01 0 DISCHARGE NUMBER

					M	ONITO	PRING P	PERK	XO				
	YE	AR	MO	НТИ	D.	AY		YE	AR	MO	NTH	D.	AY
From:	0	9	0	8	0	1	To:	0	9	0	8	3	1

OCR0501

MAJOR (SUBR 01) F-FINAL

STP EFFLUENT (FORMER 001B) EFFLUENT

\*\*\* NO DISCHARGE

BOO, 5-DAY (20 DEG. C)  MEASUREMENT  MEASUREMENT  MAD 0.81 (20)  MEASUREMENT  MOD 0.81 (20)  MEASUREMENT  ME	SAMPLE	FREQUENCY	NO.	:		JANTITY OR CONC	Q	l .	TITY OR LOADING	QUAN		PARAMETER
200 FG. C)	TYPE	OF ANALYSIS		UNITS	MAXIMUM	AVERAGE	MINIMUM	UNITS	MAXIMUM	AVERAGE		
PRILIENT GROSS VALUE  DIAGONAL MONTH  MEASUREMENT  DIAGONAL MONTH  MEASUREMENT  DIAGONAL MONTH  MEASUREMENT  DIAGONAL MONTH  SAMPLE  MEASUREMENT  DIAGONAL MONTH  SAMPLE  MEASUREMENT  DIAGONAL MONTH  M	DC		0	( 19)	8.1	5.7		( 26)	0.61	0.40		(20 DEG. C)
SAMPLE MESUREMENT	COMP		4	MG/L		SECTION AND PROPERTY AND ADDRESS OF THE PARTY OF THE PART		LBS/DY			THE RESIDENCE OF THE PARTY OF T	
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PRINCIPAL EXECUTIVE OFFICER Bradley J. Adams Principal Executive of positive positive in the second control of the positive of of the	DC		0	( 19)		1.9		( 28)	0.17	0.12		SUSPENDED
RAMPLE MEASUREMENT 0.006 0.014 (03)	COMPA			MG/L			-	LBS/DY			THE TAX TO SERVICE AND ADDRESS OF THE CASE	EFFLUENT GROSS VALUE
PERLIPENT GROSS VALUE  SAMPLE MEASUREMENT  PERMIT P	CN		0	****				( 03)	0.014			THRU TREATMENT PLANT
MEASUREMENT  PERMIT REQUIREMENT  SAMPLE MEASUREMENT  SAMPLE MEASUREMENT  PERMIT	CONTR	DALLY					72	MGD				
REQUIREMENT  SAMPLE  MEASUREMENT  PERMIT  REQUIREMENT  SAMPLE  MEASUREMENT  FERMIT  REQUIREMENT  I SAMPLE  MEASUREMENT  FERMIT  REQUIREMENT  I SAMPLE  MEASUREMENT  FERMIT  REQUIREMENT  I Cortify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to seaure thirt qualified pensonnel property gather and evaluate the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am 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 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 who manage the system for submitting takes information, including the possibility of many management of knowling detailons.  SIGNATURE OF PRINCIPLE  EXECUTIVE OFFICER OR AUTHORIZED AGENT  NUMBER YEAR MONTH  1. Flow existed through this outfall 30 of 31 days during the month.										Till Albert Hills and A		
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RECURRENT  SAMPLE MEASUREMENT  PETAIT  PETAIT  RECURRENT  PROPERTY  I contity 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 property gather and evaluate the information submitted. Based on my inquiry of the person or persons brought to gathering the information, the information submitted is, to the best of my inquiry of the person or persons brought to gathering the information, including the possibility of the person or persons brought to gather and evaluate the information submitted is, to the best of my inquiry of the person or persons brought to gather and evaluate the information submitted is, to the best of my including the possibility of the person or persons brought to gather and evaluate the information submitted. Based on my inquiry of the person or persons brought to present the information submitted. Based on my inquiry of the person or persons brought to present the information submitted. Based on my inquiry of the person or persons brought to person or persons brough												
MAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bradley J. Adams Plant Manager Typeo on Prince Typeo on	100										TO THE PERSON NAMED AND POST OF THE PERSON O	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bradley J. Adams Bradley J. Adams 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 eware that there are significant penalties for submitting laise information, including the possibility of the person of persons that there are significant penalties for submitting laise information, including the possibility of the person of persons through the person of persons through the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am eware that there are significant penalties for submitting laise information, including the possibility of the person of persons through the person of persons of persons through the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am eware that there are significant penalties for submitting laise information, including the possibility of the person of persons of persons through the information and person of persons of											MEASUREMENT	
PRINCIPAL EXECUTIVE OFFICER  Bradley J. Adams  Bradley J. Adams  Plant Manager  TYPED OR PRINTED  TYPED OR PRINTED  1. Flow existed through this outfall 30 of 31 days during the month.  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 personnel who menage the system, or those persons directly responsible tor gathering the information. Including the possibility of aware that there are significant penalties for submitting false information, including the possibility of authorized AGENT  TYPED OR PRINTED  1. Flow existed through this outfall 30 of 31 days during the month.		Acres State	E. //									ing annannan merana i sekoonaan selt se Streaturi salami'inii
Bradley J. Adams properly gather and evaluate the information submitted. Based on my inquiry of the person or personnel who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and basisf, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of line and imprisionment for knowing violations.  SIGNATURE OF PRINCIPLE  EXECUTIVE OFFICER OR AUTHORIZED AGENT  NUMBER YEAR MONTH  1. Flow existed through this outfall 30 of 31 days during the month.	11.00 0.000	DATE	100,000	EPHONE	TEL	11/1	namenam //	hadlen or teett a	stem designed to see in	accordance with a sv	direction of supervision in	PRINCIPAL EXECUTIVE OFFICER
TYPED OR PRINTED THE and imprisionment for knowing violations.  AUTHORIZED AGENT CODE  1. Flow existed through this outfall 30 of 31 days during the month.	17	09	09	406-3700	815 PLE	SNATURE OF PRINC	ation, the SI	quiry of the pen ering the inform	mitted. Based on my in city responsible for gath declos and belief true.	te the information sub- or those persons direc to the best of my know	properly gather and evaluation menage the system, information submitted is, t	Bradley J. Adams
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  1. Flow existed through this outlall 30 of 31 days during the month.	DAY	MONTH	YEAR	NUMBER	_		possibility of E	n, including the	omitting false information	ricars penames for sur knowing violations.	line and imprisionment for	
		V Marie and V			CODE	AUTHORIZED AGE	100000000	ere)	all attachments he month.	10NS (Reference 11 days during the	ION OF ANY VIOLAT ugh this outlail 30 of 3	OMMENTS AND EXPLANATION  1. Flow existed through
EPA Form 3320-1 (Rev 3/99)	PAGE 1 O											EPA Form 3320-1 (Rev 3/99)

				U	<b>IOURNATA</b>		man we	PONI (DIEN)				OCHOOUT	
PERMITTEE	NAME/ADDRESS									MAJOR			
NAME	<b>Exelon Generation</b>	Co., LLC		ILO	048313			C01 0		(SUBR 01)	Ŕ		
ADDRESS	4300 Winfield Roe	d		PERMIT NUMBER DISCHARGE NUMBER					MBER	F - FINAL	ř.		
	Warrenville, IL 606	55	-				3			WWTP (FC	RMER (	001C)	
	ranices, wastanced a side of the					MONITORIN	G PERIO	)	7	EFFLUENT		,	
FACILITY	Byron Nuclear Pov	ver Station		YEAR M	HTMO	DAY	YEA	A MONTH	DAY				
LOCATION	4460 North Germa	n Church Road	From:	0 9 0	8 (	) 1 To	): 0	9 0 8	3 1	••	. NO DI	SCHARGE	۱
	Byron, IL 61010						-						•
									NO <sup>1</sup>	TE: Read inst	tructions	before completing	this
			QUA	NTITY OR LOAD	NG		QL	ANTITY OR COM			NO.	FREQUENCY	s
PAF	RAMETER	<i>&gt;</i> < ⊦	AVERAGE	MANAMA MA	LIMITS	Addada	nna T	AVEDAGE	I MAYNONA	LINETO	EX	OF	~

PARAMETER		QUANTITY OR LOADING QUANTITY OR CONCENTRATION			NO.	FREQUENCY	SAMPLE				
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			( 28)		<1.2	3.3	( 19)	0	240	DC
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT	1000	-	LBS/DY		15.0 30 DAY AVB	30.0 DALYMAX	MG/L		WEBSLY	COMP24
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT		-	LBS/DY		9.1 30 DAY AVG	DALY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT			( 26)	-			( 19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECILIREMENT	<u> </u>	2.12	LBS/DY		30 DAY AVG	2.0 DAILY MAX	MG/L	125	DALY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT	-	-	LBS/DY	<u> </u>	0.5 30 DAY AVG	DALYMAX	MG/L	100 mm	DAILY	GFAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT	4		LBS/DY		1.0 30 DAY AVG	DALYMAX	MG/L	100	DAILY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT		<del>(1113)</del>	( 26)				( 19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY	-	0.2 30 DAY AVG	0.4 DALYMAX	MG/L	2	DARLY	GRAB
NICKEL, TOTAL (AS NI)	SAMPLE MEASUREMENT			( 26)	-			( 19)		500	
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECURRENCENT	-	1	LBS/DY	$\frac{1}{2}$	30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	Impropose or archaraterous	in accordance with a	system designed to ass	ure that qualifier	annonna l	2 11 11		LEPHONE		DATE	
Bradley J. Adams	properly gather and eval who manage the system information submitted is,	lute the information at n, or those persons di	comitted. Based on my rectly responsible for ga	inquiry of the pe thering the infor	mation, the	SIGNATURE OF PRI		406-3700	09	09	17
Plant Manager TYPED OR PRINTED	aware that there are signifine and imprisionment for	nificant penalties for s	submitting false informat			EXECUTIVE OFFICE	The same	1 NUMBER	YEAR	MONTH	DAY
				ASSESS A REPORT AND A LOCALIDA				The second second second second			

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

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

EPA Form 3320-1 (Rev 3/99)		8D	PAGE 1 OF 2

PERMIT	TEC	MAI	ASE/	ADD	DECC
L CLIMB	ILEC			ALJU	HE-55

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road Warrenville, IL 60555

FACILITY

**Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 C01 0

PERMIT NUMBER DISCHARGE NUMBER

			. 341000		M	ONITO	DRING	PERK	00				
	YE	AR	MO	HTM	DAY			YE	AR	MO	HTM	D	AY
rom:	0	9	0	8	0	1	To:	0	9	0	8	3	1

CHANTITY OR LOADING

OCR0501

MAJOR (SUBR 01) F-FINAL

WWTP (FORMER 001C) EFFLUENT

NO	NSCHARGE	••	•

NOTE: Read instructions before completing this form

			NTITY OR LOADIN	G	0	UANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
ZINC, TOTAL		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
(AS ZN)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLIREMENT	-	1	LBS/DY		1.0 30 DAY AVG	20 DAILY MAX	MG/L		DARLY	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT			( 26)		1.6	1.7	( 19)	0	240	GR
03582 1 0 0 EFFLUENT GROSS VALUE	PERMIT	-	2-7-	LBS/DY		15.0 30 DAY AMS	20.0 DAILY MAX	MG/L	Market .	WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.031	0.061	( 03)	: <u> </u>				0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT	REPORT 30 DAY AVG	PREPORT DAILY MAX	MGD					LE DASK	DARY	TOTALE
	SAMPLE MEASUREMENT		:: ::						(A)		
	PERMIT										
	SAMPLE MEASUREMENT										
	PERMIT	K.									
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	PERMIT								Car.		A 168
CODE OF THE COMPANY AND A SHOULD SHOW THE SHOP AND A SHOP A SHO	SAMPLE MEASUREMENT										
THE WAS A CHINE OF THE PARK OF THE HEADERS AND THE	PERMIT								S45, 4		
NAME/TITLE	I certify under penalty of	T SOCOORISANA WITH A 44	miam dissipand to accu-			ally + A	// TEL	EPHONE		DATE	
PRINCIPAL EXECUTIVE OFFICER	Tourseases or archasolations in		mitted Deceders	the second second		rolla I A	dan	T	_		<del></del>
PRINCIPAL EXECUTIVE OFFICER  Bradley J. Adams  Plant Manager	properly gather and evaluation manage the system information submitted is, aware that there are sign	we the information sub, or those persons dire to the best of my know	icity responsible for gas idedne and heliaf true	hering the inform	nation, the	GNATURE OF PRI		408-3700	09	09	17

OCR0501

SD

PAGE 1 OF 1

ADDRESS 4300 Wi	DDRESS  leneration Co., LLC  nfield Road  ille, IL 60655			NUMBER		D01 0 DISCHARGE NU	MBER	MAJOR (BUBR 01) F - FINAL			
Wallally	me, n. 00000		<u> </u>	v	ONITORING PERI	<del></del>		RADWAST		TMENT (FORME	R 001D)
	uclear Power Station rth German Church Road 61010	From:	YEAR MO			EAR MONTH 9 0 8	MONTH DAY			BCHARGE	]
					:		NOT	E: Read inst	ructions	before completing	this form
PARAMETER		AVERAGE	MAXIMUM	3 UNITS	MINIMUM	AVERAGE		1	NO. EX	FREQUENCY OF	SAMPL
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			( 26)		AVERAGE ⊲0.5	MAXIMUM 0.9	( 19)	0	ANALYSIS 240	CP
<b>00630 1 0 0</b> EFFLUENT GROSS V	PERMIT RECOURSEMENT	1.	/4.10	LBS/DY	A	15.0 30 DAY AVG	DAR YMAX	MG/L		WEEKLY	COMPO
OIL AND GREASE	SAMPLE MEASUREMENT			( 26)		<1.4	<1.4	( 19)	0	240	GR
03582 1 0 0 EFFLUENT GROSS V	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.6 DARLY MAX	MG/L		WEEKLY	GRAE
FLOW, IN CONDUIT O THRU TREATMENT P		0.022	0.024	( 03)		-			0	135	CN
50050 1 0 0 EFFLUENT GROSS V	PERMIT REGISTREMENT	REPORT 30 DAY AVG	PEPORT DAILY MAX	MGD	2.43	-		1		DAILY	CONTI
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT								F 18		
STORAGE STORAGE	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										Tible:
	SAMPLE MEASUREMENT										
:	PERMIT								3.5		
	SAMPLE MEASUREMENT										
	PERMIT									· N	
NAME/TITLE PRINCIPAL EXECUTIVE O	DEFICER I certify under penalty of direction or supervision in	law that this documen	t and all attachments w	ere prepared un	der my	2 11 1	TE	LEPHONE	100-2-41	DATE	
Bradley J. Adam	Shobeuk desper and ever	As the information sub . Of those persons div	brnitted. Blased on my i ectiv responsible for out	nquiry of the per hering the inform	son or persons	SIGNATURE OF PR	BIS BIS	406-3700	09	09	17
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment fo	ificant penaities for su	bmilting false information	on, including the	possibility of	EXECUTIVE OFFICE	ER OR ARE	NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXP 1. Flow exis	LANATION OF ANY VIOLATION OF ANY VIOLATI	NONS (Reference 31 days during the	e all attachments he month.	iere)		AUTHORIZED A	GENT COD		<b>L</b>		

EPA Form 3320-1 (Rev 3/99)

#### PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

From:

E01 0 DISCHARGE NUMBER

MONITORING PERIOD YEAR MONTH DAY YEAR MONTH DAY 0 9 0 8 0 1 0 9 0 8 3 1 To:

OCR0501

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

"" NO DISCHARGE

							NOT	: Read inst	ructions (	before completing	this form
PARAMETER		QUA	NTITY OR LOADIN	G		QUANTITY OR CONCENTRATION				NO. FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	ANALYSIS	TYPE
PH	SAMPLE MEASUREMENT							( 12)		500	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT			<b> </b>	6.0 Marina na		9.0	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			( 26)				( 19)		500	
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT	-	1.37	LBS/DY		15.0 30 DAY AVG	DAILY MAX	MG/L	ON.	SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			( 26)			GAL ( BOA)	( 19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT	-		LBS/DY		0,1 39 DAY AVG	DAILY MAX	MG/L	No.	DALY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT			( 26)	:			( 19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT		-	LBS/DY		1.0 30 DAY AVG	2.0 DAEYMAX	MG/L	No. of	DAILY	₩ GRAB /
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT		••••	( 26)			(240) (000)	( 19)	e Peter in	500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT		- TAN	LBS/DY		0.5 30 DAY AVG	DAR YMAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT	-		( 26)				( 19)		500	
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT		4	LBS/DY		1.0 30 DAY AVG	DAT YMAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT			( 26)		To John America	O-ALTIES A	( 19)		500	
01061 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY	-	0.2 30 DAY AVG	DARYMAX	MG/L		DAILY	GRAS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under peneity of a direction or supervision in	aw that this documen	t and all attachments v	vere prepared ur	vder my	0 11/1		LEPHONE	486 850	DATE	100000000000000000000000000000000000000
Bradley J. Adams	properly gather and evaluation manage the system.	de the information sub or those persons dire	omitted. Based on my activ responsible for on	inquiry of the pe	rean or persons	July & A	dama 815	406-3700	09	09	17
Plant Manager	information submitted is, aware that there are sign fine and imprisionment to	to the best of my know ficant penalties for su	eledge and belief, true	accurate and	complete Lam	SIGNATURE OF PRI	ER OR AREA	NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANAT						AUTHORIZED AG	ENT CODE	HOMBEN	TEAR	MURIT	DAT

- 1. No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 3. Flow existed through this outfall 7 of 31 days during the month. EPA Form 3320-1 (Rev 3/99)

SD

PAGE 1 OF 2

PERM	MITTEE	NAME	ADDE	ECC

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY

**Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

E01 0 DISCHARGE NUMBER

MONITORING PERIOD YEAR MONTH DAY YEAR MONTH DAY 0 8 From: 0 9 0 1 0 9 To: 0 8 3 1 OCR0501

MAJOR (SUBR 01) F-FINAL

STORMWATER (FORMER 001E) STORMWATER

"" NO DISCHARGE

PARAMETER		QUA	VITITY OR LOADING	3		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
CKEL, TOTAL S NI)	SAMPLE MEASUREMENT			( 26)				( 19)		500	
067 1 0 0 FLUENT GROSS VALUE	PERMIT	1		LBS/DY	-	1.0 30 DAY AWG	DAILY MAX	MG/L		DAILY	GRAB
IC, TOTAL 3 ZN)	SAMPLE MEASUREMENT	-		( 26)				( 19)		500	
092 1 0 0 FLUENT GROSS VALUE	PERMIT RECAUREMENT			LBS/DY	-	1.0 30 DAY/ANG	2.0 DAILY MAX	MG/L		DAILY	GRAB
AND GREASE	SAMPLE MEASUREMENT			( 26)		<1.4	1.5	( 19)	0	290	GR
582 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	4	-	LBS/DY		15.0 30 DAY AWS	20.0 DAILY MAX	MG/L		TWICE/ MONTH	GRAB
OW, IN CONDUIT OR IRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.253	0.773	( 03)					0	290	TM
050 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD			2.1	1		TWICE/	TOTALE
2.24 (1.20va) 64-v A/9844 (Article 2.34) (4.00va) 74.00 (4.00va)	SAMPLE MEASUREMENT				:						
	PERMIT						3.4105				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT							1			
=	SAMPLE MEASUREMENT										
:	PERMIT REQUIREMENT					der Edita	P. Red St				
- TO THE OF THE OF THE PARTY OF	certify under penalty of t firection or supervision in	accordance with a e	uses of beginned to seem	on that availant	I nerecense	3 M JA	Idan TE	LEPHONE		DATE	
Bradley J. Adams	Properly gather and evaluation manage the system, information submitted is, 1	te the information sub or those persons dire to the best of my kno	omitted. Based on my is actly responsible for gatt stedoe and belief, true.	nquiry of the pe hering the infort socurate, and o	metion, the	SIGNATURE OF PRI	815	406-3700	09	09	17
Plant Manager	tware that there are signi line and imprisionment to	ficant penalties for au	bmitting false information	on, including the	e possibility of	EXECUTIVE OFFICE	ER OR ARE	NUMBER	YEAR	MONTH	DAY
			all attachments h			AUTHORIZED AC	SENT COD	F	I CAN	MONTH	Uni

PERMITTEE NAME/ADDRESS	PER	ATTEE	NAME	/ADDE	IFSS
------------------------	-----	-------	------	-------	------

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

001 0 DISCHARGE NUMBER

	- :	and the same and a			M	ONITO	DRING	PERK	00				1 0 0
	YE	AR	MO	NTH	D	AY		YE	AR	MO	нти	D.	AY
From:	0	9	0	8	0	1	To:	0	9	0	8	3	1

**OCR0501** 

MAJOR (SUBR 01) F-FINAL

**COOLING SYSTEM BLOWDOWN** EFFLUENT

\*\*\* NO DISCHARGE

PARAMETER		QUA	NTITY OR LOADIN	G		QUANTITY OR CON	CENTRATIC			NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIM	JM	UNITS	EX	OF ANALYSIS	TYPE
РН	SAMPLE MEASUREMENT	<del></del>			8.50	*******	8.72		( 12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT	1	12 H		8.0 MINIMUM		9.0 MAXCOM	<b>84</b>	su	1111	WEEKLY	GRAB
XOPPER, TOTAL AS CU)	SAMPLE MEASUREMENT			( 26)			0.013		( 19)	0	240	<b>GR</b>
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT	1		LBS/DY	1		0.071 DAILY M	V	MG/L		WEEKLY	GRAB
ZINC, TOTAL (AS ZN)	SAMPLE MEASUREMENT			( 26)			0.031		( 19)	0	240	GR
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY			DAILY M		MG/L		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT			( 26)		-		~	( 19)		500	
34044 1 0 0 EFFLUENT GROSS VALUE	PERMIT	-		LBS/DY			0.05 DAILY N	wy	MG/L	4.5	WEEKLY	GRAS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	21.58	30.19	( 03)				-		0	136	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT	REPORT 30 DAY AVG	REPORT DAILY MOX	MGD		100000				80.	DAILY	CONTEN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	(a		( 26)		0.19	0.34		( 19)	0	240	GR
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		-	LBS/DY	100	0.2 30 DAY AVG	DALYM		MG/L	11.1	WEERLY	GRAB
HYDRAZINE	SAMPLE MEASUREMENT			( 26)					( 19)	= =	500	
81313 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		1	LBS/DY	4		0.031 DALYM		MG/L		DAILY WHEN DISCHARGING	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under peneity of a direction or supervision in	accordance with a e	retem designed to see	on that availant	namana I	1111	11		EPHONE		DATE	
	properly gather and evaluation manage the system, information submitted is,	As the information sub or those persons dire to the best of my kno	omitted. Based on my othy responsible for gar stados and bellef, true	inquiry of the per thering the information	son or persons	SIGNATURE OF PRI	INCIPLE	815	408-3700	09	09	17
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment to	mount penalties for sur Including violations.	Omitting false informati	on, including the	possibility of	AUTHORIZED AC		AREA	NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANAT	ON OF ANY VIOLAT	BONS (Reference	all attachments	Tener		AUTHORIZEDAL	JEN I	CODE	<u> </u>		<u> </u>	
er Special Condition 4C., the	maximum allowable b	lowdown tempera	ture calculation res	ults are provi	ded on the attachr	nent						
SEE ATTACHED												
EPA Form 3320-1 (Rev 3/99)		77						SD		10 10 10 10 10		PAGE 1 OF

		MAFRE

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY Byron Nuclear Power Station

LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

002 0 DISCHARGE NUMBER

					M	ONITO	DRING	PERK	00	1 11110-11110-0			
	YE	AR	MO	NTH	D	AY		YE	AR	MO	NTH	D	AY
From:	0	9	0	8	0	1	To:	0	9	0	8	3	1

OCR0501

MAJOR (SUBR 01) F-FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

... NO DISCHARGE X ...

PARAMETER		QUA	NTITY OR LOADIN	G		DUANTITY OR CON			NO.	before completing FREQUENCY	SAMPLE
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
РН	SAMPLE MEASUREMENT							( 12)			
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT				MANAGEM	-	9.0 MAYDERI	su		SEE	GRAS
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			( 26)				( 19)			
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT		1	LBS/DY		16.0 30 DAY AVS	DARYMAX	MG/L		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			( 26)			N 11	( 19)			
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT	A S	7.7	LBS/DY	-	0.1 3D DAY AVB	0.2 DAILY MAX	MG/L		DALY	GRAB
CHROMIUM, TOTAL (AS CR)	8AMPLE MEASUREMENT		1	( 26)				( 19)			
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT			LBS/DY	-	1.0 30 DAY AVG	DAILY MAX	MG/L		DAILY	GRA8
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			( 26)				( 19)			
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		0.5 30 DAY AVG	DAILY MAX	MG/L		DAILY	GRAB
RON, TOTAL (AS FE)	SAMPLE MEASUREMENT			( 26)				( 19)			
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		30 DAY AVG	DALYMAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT	4		( 26)				( 19)			
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		0.2 30 DAY AMS	DARYMAX	MG/L		DAILY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of to direction or supervision in	accordance with a s	uses of begoined metay	on that availfact or	umreed /	1/1	// TE	LEPHONE		DATE	
oraciey J. Adams	properly gather and evalu- who manage the system.	to the information sub or those persons dire	broitted. Based on my in activ responsible for ost	nguiry of the pers	on or persons	IGNATURE OF PRI	815	406-3700	09	09	17
Plant Manager	information submitted is, i aware that there are signi	ficant penalties for su	maage end belief, true, Amilting false informatic	accurate, and co on, including the		EXECUTIVE OFFICE					
TYPED OR PRINTED	fine and imprisionment for	r knowing violations.				AUTHORIZED AG	IMPE	1 NUMBER	YEAR	MONTH	DAY

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

EPA Form 3320-1 (Rev 3/99)

SD

PAGE 1 OF 2

PERMITTEE	NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, Il 60655

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	

002	0
DISCHARGE	NUMBER

					M	ONITO	DRING	PERK	00				-
	YE	AR	МО	НТИ	D.	AY		YE	AR	MO	NTH	D	AY
From:	0	9	0	8	0	1	To:	0	9	0	8	3	1

#### OCR0501

MAJOR (SUBR 01) F-FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

*** NO DISCHARGE	X	

PARAMETER		QUA	NTITY OR LOADING	3		QUANTITY OR CON	CENTRATIO	4		NO.	FREQUENCY	SAMPLE
rannan yar		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMU	м	UNITS	EX	ANALYSIS	TYPE
CKEL, TOTAL S NI)	SAMPLE MEASUREMENT			( 26)				I	( 19)			
1067 1 0 0 FFLUENT GROSS VALUE	PERMIT RECUIREMENT	-		LBS/DY		38 DAY AVG	DALYM		MG/L	1	DALLA	GRAB
NC, TOTAL S ZN)	SAMPLE MEASUREMENT	411111111111111111111111111111111111111		( 26)					( 19)			
1092 1 0 0 FFLUENT GROSS VALUE	PERMIT			LBS/DY	100 mm and	30 DAY AVG	DAILY M		MG/L		DAILY	GRAS
IL AND GREASE	SAMPLE MEASUREMENT		\$	( 26)					( 19)		3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
3582 1 0 0 FFLUENT GROSS VALUE	PERMIT			LBS/DY	1	15.0 30 DAY AVG	20.0 DARY M	. Your	MG/L	Sec.	TWICE/	GRAB !
OW, IN CONDUIT OR HRU TREATMENT PLANT	SAMPLE MEASUREMENT			( 03)								
0050 1 0 0 FFLUENT GROSS VALUE	PERMIT RECUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD							TWICE/	TOTALZ
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT									Shirt.		4
	SAMPLE MEASUREMENT											
	PERMIT						ary Vitalian Section 1			4127		
	SAMPLE MEASUREMENT											
	PERMIT RECIVIREMENT					Part Charles		114		Abr.		7.5%
NAME/TITLE RINCIPAL EXECUTIVE OFFICER	certify under penalty of direction or supervision is	law that this docume in accordance with a	nt and all attachments w	ere prepared u	nder my	Bulle 1	11.	TEL	EPHONE		DATE	
Bradley J. Adams	properly gather and evel who manage the system information submitted is,	Lite the information su L. Or those persons dis	ibmitted. Based on my i	nquiry of the pr	mation the	SIGNATURE OF PR	INCIPLE	815	406-3700	09	09	17
Plant Manager	aware that there are sign fine and imprisionment for	nificant peneities for a	ubmitting false informati	on, including th	e possibility of	EXECUTIVE OFFIC		AREA	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED						AUTHORIZED A	GENT	CODE				

## ATTACHMENT TO COOLING SYSTEM BLOWDOWN LINE (Outfall 001) DISCHARGE MONITORING REPORT

For Exelon Byron Station Permit IL0048313 August 2009

#### **BLOWDOWN TEMPERATURE MONITORING:**

Date	Calculated Maximum Allowable Blowdown Temp. (Degrees F)	Maximum Actual Blowdown Temp. (Degrees F)
08/01/09	120	88.4
08/08/09	120	97.0
08/15/09	120	93.3
08/22/09	120	85.3
08/29/09	120	85.5

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 August 2009.

N/A

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE:

## ATTACHMENT TO COOLING SYSTEM BLOWDOWN LINE (Outfall 001)

### DISCHARGE MONITORING REPORT (Page 2)

For Exelon Byron Station Permit IL0048313 August 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.

<u>Date</u>	<u>Dosing Time</u> (Minutes)	
	U-1	<u>U-2</u>
08/01/09	34	35
08/02/09	36	35
08/03/09	40	40
08/04/09	48	50
08/05/09	60	50
08/06/09	52	50
08/07/09	44	45
08/08/09	50	40
08/09/09	60	60

#### HALOGEN DOSING CURVE

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

Date: 08/03/09

Analyzed by: D.C.A.

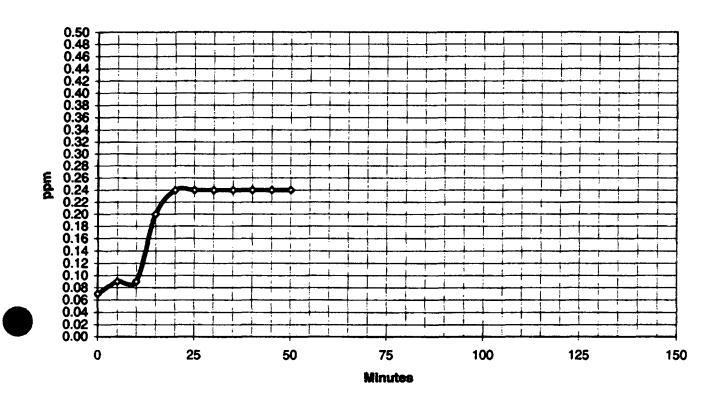
Unit: 1

Time: 12:38

Note:

Reviewed by: D. M.

The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing Time (Minutes)	
	<u>U-1</u>	<u>U-2</u>
08/10/09	40	40
08/11/09	48	35
08/12/09	50	50
08/13/09	50	50
08/14/09	50	50
08/15/09	40	50
08/16/09	50	50

#### HALOGEN DOSING CURVE

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

Date: 08/10/09

Analyzed by: G.S.

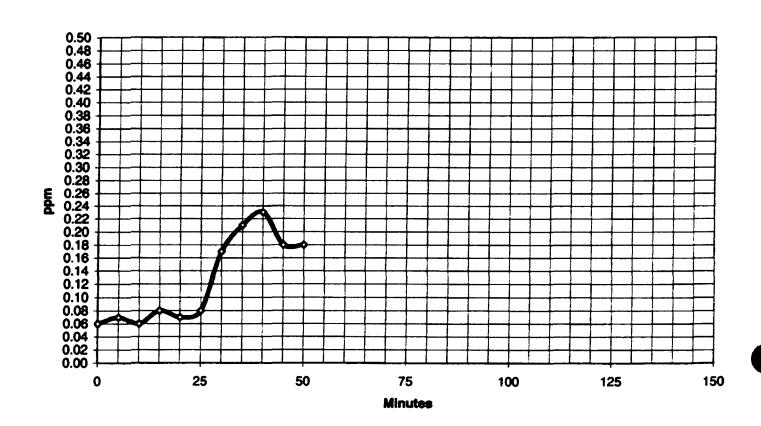
Unit: 2

Time: 12:25

Reviewed by: D. M.

Note:

The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing Time (Minutes)	
	<u>U-L</u>	<u>U-2</u>
08/17/09	50	50
08/18/09	45	50
08/19/09	45	44
08/20/09	51	50
08/21/09	43	47
08/22/09	45	45
08/23/09	47	47

#### HALOGEN DOSING CURVE

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

Date: 08/18/09 Ana

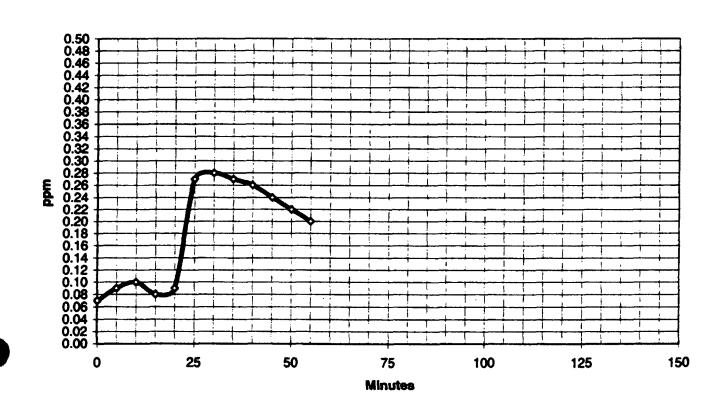
Analyzed by: J.P.

Unit: 1

Time: 12:15

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing Time (Minutes)	
	<u>U-1</u>	<u>U-2</u>
08/24/09	50	50
08/25/09	45	45
08/26/09	47	46
08/27/09	40	41
08/28/09	40	40
08/29/09	40	40
08/30/09	46	40
08/31/09	38	39

#### HALOGEN DOSING CURVE

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

Date: 08/24/09

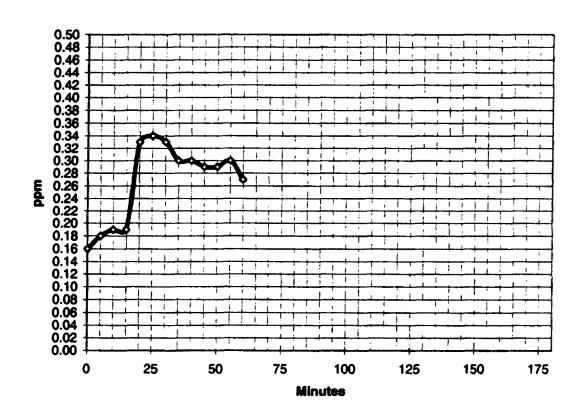
Analyzed by: D.L.

Unit: 2

Time: 12:06

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All





Exelon Generation Company, LLC **Byron Station** 4450 North German Church Road Byron, it 61010~9794

www.exeloncorp.com

Nuclear

October 21, 2009

**BYRON 2009-0115** LTR:

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 September 1, 2009 through September 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

Plant Manager

Byron Nuclear Generating Station

BJA/ZC/vb

**Attachments** 

MONITORING PERIOD

To:

YEAR

0 9

DAY

0 1

OCR0501

P	ERMITT	EE	NAME/	ADD	RESS

FACILITY

NAME Exelon Generation Co., LLC ADDRESS 4300 Winfield Road

Warrenville, IL 60555

Byron, IL 61010

**Byron Nuclear Power Station** LOCATION 4450 North German Church Road

ILOO	48313	
PERMIT	NUMBER	

MONTH

0 9

YEAR

0 9

	A01	0	
D	ISCHARGE	NUM	<b>MBER</b>

MONTH

0 9

DAY

3 0

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

MAJOR

\*\*\* NO DISCHARGE

NOTE: Read instructions before completing this form QUANTITY OR LOADING QUANTITY OR CONCENTRATION FREQUENCY NO. SAMPLE PARAMETER OF EX TYPE AVERAGE MAXIMUM MINIMUM UNITS **AVERAGE** MAXIMUM UNITS ANALYSIS SOLIDS, TOTAL SAMPLE (28) €0.6 <0.6 ( 19) 0 EC SUSPENDED MEASUREMENT 00630 1 0 0 PERMIT 15.0 30.0 ONCE LBS/DY COMP-6 MG/L EFFLUENT GROSS VALUE DAILY MAX REQUAREMENT MONTH 30 DAY AVG CHROMIUM, HEXAVALENT SAMPLE ( 26) 500 ( 19) (AS CR) MEASUREMENT 01032 1 0 0 PERMIT 0.1 0.2 LBS/DY DARLY GRAB MG/L EFFLUENT GROSS VALUE RECUPEMENT 30 DAY AVG DAILY MAX CHROMIUM TOTAL SAMPLE (26) 500 ( 19) (AS CR) MEASUREMENT 01034 1 0 0 PERMIT 10 20 LBS/DY MG/L DAILY GRAB EFFLUENT GROSS VALUE REQUIREMENT 30 DAY AVG DAILY MAX COPPER, TOTAL SAMPLE (28) 500 ( 19) (AS CU) MEASUREMENT 01042 1 0 0 PERMIT 0.5 1.0 LBS/DY MG/L DAILY GRAB EFFLUENT GROSS VALUE 30 DAY AVG DAILY MAX IRON, TOTAL SAMPLE (26) 500 ( 19) (AS FE) MEASUREMENT 01045 1 0 0 10 1.0 LBS/DY DALY GRAB MG/L EFFLUENT GROSS VALUE 30 DAY AYG DAILY MAX LEAD, TOTAL SAMPLE (26) 500 ( 19) (AS PB) MEASUREMENT 01061 1 0 0 PERMIT 0.4 LBS/DY DAILY GRAB REQUIREMENT MG/L EFFLUENT GROSS VALUE 30 DAY AVG DAILY MAX NICKEL TOTAL SAMPLE ( 26) ( 19) 500 (AS NI) MEASUREMENT 01067 1 0 0 PERMIT LBS/DY MG/L DALLY GRAB EFFLUENT GROSS VALUE RECLUREMENT 30 DAY AVG DAR Y MAX NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evalute the information submitted. Based on my inquiry of the person or persons 815 406-3700 who manage the system, or those persons directly responsible for gathering the information, the Bradley J. Adams 09 10 21 SIGNATURE OF PRINCIPLE 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 Plant Manager EXECUTIVE OFFICER OR AREA ne and imprisionment for knowing violations. NUMBER YEAR MONTH DAY TYPED OR PRINTED **AUTHORIZED AGENT** 

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

- 1. There was no discharge of processed steam generator chemical cleaning waste water during this month.
- 2. Flow existed 29 of 30 days during this month.

EPA Form 3320-1 (Rev 3/99)

SD

OCR0501

SD

PAGE 2 OF 2

NAME (	NAME/ADDRES  Exelon Generati  4300 Winfield R	ion Co., LLC			48313 NUMBER	-1 [	A01 (		MAJOR (SUBR 01) F - FINAL	ļs.		
	Warrenville, IL 6			· · · · · · · · · · · · · · · · · · ·						ALIZER F	REGENERATE (O	(01A)
					M	ONITORING P	PERIOD		EFFLUEN			
LOCATION	Byron Nuclear P 4450 North Gen Byron, IL 61010	man Church Road	From:	The same of the sa	NTH DA		YEAR MONTO	DAY 3 0	an all et area anne	· NO DE	BCHARGE	]
			QUA	NTITY OR LOADIN	ıg .		QUANTITY OR C		TE: Read ins	NO.	before completing	1
PARA	AMETER		AVERAGE	MAXIMUM	UNITS	MINIMUN	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	SAMPL
ZINC, TOTAL (AS ZN)		SAMPLE MEASUREMENT			( 26)				( 19)		500	1 10
01092 1 EFFLUENT GI	0 0 ROSS VALUE	PERMIT			LBS/DY	4	1.0 30 DAY AVG	2.0 DARLY MAX	MG/L	6.0	DARLY	GRAE
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<b>50050</b> 1 EFFLUENT GI	0 0 ROSS VALUE	PERMIT	REPORT 30 DAY AVG	PREPORT DAILY MAX	MGD		1	The Lates	<b>1</b>		DARY	COM
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		PERMIT										
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		PERMIT RECILIFIEMENT		<b>高品质的</b>								
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	J. Adams	who manage the system, information submitted is,	te the information aut or those persons dire to the best of my kno	bmitted. Based on my i actly responsible for gas mindbe and belief, true.	inquiry of the pen thering the inform	ation or persons	SIGNATURE OF I		5 408-3700	09	10	21
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PRINCIPAL EXE Bradley Plant A TYPED 0	CUTIVE OFFICER  J. Adams  Manager  ON PRINTED	properly gather and evaluation in properly gather and evaluation manage the system, information submitted is, aware that there are sign	accordance with a extension autor those persons die to the best of my kno lificant penalties for aur knowing violations.	ystem designed to assi- bmitted. Based on my actly responsible for gas wiedge and belief, true, ubmitting felse informati	ure that qualified inquiry of the per thering the inform , accurate, and or ion, including the	personnel son or persons stion, the		PRINCIPLE FICER OR AR	5 408-3700 EA NUMBER		10	)

EPA Form 3320-1 (Rev 3/99)

PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road

Warrenville, IL 60555

FACILITY

**Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

From:

B01 0 DISCHARGE NUMBER

MONITORING PERIOD MONTH YEAR DAY YEAR MONTH DAY 0 9 0 9 0 1 0 9 To: 0 9 3 0 OCR0501

MAJOR (SUBR 01) F-FINAL

STP EFFLUENT (FORMER 0018) EFFLUENT

\*\*\* NO DISCHARGE

NOTE: Read instructions before completing this form QUANTITY OR LOADING **FREQUENCY** QUANTITY OR CONCENTRATION SAMPLE PARAMETER OF EX MAXIMUM MINIMUM TYPE **AVERAGE** UNITS AVERAGE MAXIMUM UNITS **ANALYSIS** BOD, 5-DAY SAMPLE 0.66 1.19 (26) 8.0 13.0 DC ( 19) 0 290 (20 DEG. C) MEASUREMENT 00310 1 0 0 PERMIT 142 206 30.0 600 TWICE LBS/DY COMP24 MG/L EFFLUENT GROSS VALUE REQUIREMENT DALLY MAX 30 DAY ANG 30 DAY AVG DAILY MAX MONTH SAMPLE 7.38 7.87 290 GR (12) 0 MEASUREMENT 00400 1 0 0 PERMIT 6.0 90 TWICE SU GRAB **EFFLUENT GROSS VALUE** RECLUREMENT MARKE MAXING DA MONTH SOLIDS, TOTAL SAMPLE 40,39 0.76 ( 26) <4.4 8.3 0 290 DC ( 19) SUSPENDED MEASUREMENT 00530 1 0 0 PERMIT ECURENEYT 142 28.5 300 80.0 TWECE LBS/DY COMP24 MG/L EFFLUENT GROSS VALUE 30 DAY AYG DALYMAX DALLY MAX 30 DAY AVE HTHOM FLOW, IN CONDUIT OR SAMPLE 0.011 0.017 (03) 0 CN THRU TREATMENT PLANT MEASUREMENT 50050 1 0 0 REPORT REPORT MGD DAILY CONTIN EFFLUENT GROSS VALUE DALYMAX 30 DAY AMB SAMPLE MEASUREMENT REDILETEMENT SAMPLE MEASUREMENT PERMIT RECLUREMENT SAMPLE MEASUREMENT PERMIT RECHIREMENT NAME/TITLE centify under penalty of law that this document and all attachments were prepared under my TELEPHONE PRINCIPAL EXECUTIVE OFFICER direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evalute the information submitted. Based on my inquity 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 beflet, true, accurate, and complete. I am assure that there are algorificant penalties for submitting false information, including the possibility of line and imprisionment for knowlng violations. DATE 815 406-3700 Bradley J. Adams 09 10 21 SIGNATURE OF PRINCIPLE Plant Manager EXECUTIVE OFFICER OR AREA NUMBER YEAR MONTH DAY TYPED OR PRINTED **AUTHORIZED AGENT** COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) 1. Flow existed through this outfall 29 of 30 days during the month. EPA Form 3320-1 (Rev 3/99) SD PAGE 1 OF 1

OCR0501

NAME Exelon Genera	T-T-		11.00	48313	r		C01 0	1	MAJOR (SUBR 01)			
ADDRESS 4300 Winfield I		*		NUMBER		DIS	CHARGE NU	MBER	F - FINAL			
Warrenville, IL	60655	•					3113 IGE 110		WWTP (FO	OMED O	MC)	
				MC	ONITORING F	PERIOD		1	EFFLUENT		J.0,	
FACILITY Byron Nuclear			YEAR MC	ONTH DA	Y	YEAR	MONTH	DAY	1000			
	rman Church Road	From:	0 9 0	9 0	1 To:	0 9	0 9	3 0	••	· NO DIS	CHARGE	] •••
Byron, IL 6101	0										**************************************	
	~~~~			10-040-46190360				N	OTE: Read inst	ructions t	efore completing	a this form
PARAMETER		QUAN	NTITY OR LOADIN	IG		QUAN	TITY OR COM	CENTRATION		NO.	FREQUENCY	SAMPL
		AVERAGE	MAXIMUM	UNITS	MINIMU	и .	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL	SAMPLE	A-1 W. W. W. W. W. W. W. W. W.		1 ,								+
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CHROMIUM HEXAVALENT	AND AND ASSESSMENT OF THE PROPERTY OF THE PROP						DAY AVG	DAILYMAN		134-25		
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EFFLUENT GROSS VALUE CHROMIUM, TOTAL	RECURRENCE			GOD!		3	B DAY AVG	DAILY MAD	MG/L		UPACY.	GRAE
(AS CR)	SAMPLE MEASUREMENT	***************************************		(26)					( 19)		500	
01034 1 0 0	PERMIT			d		G874 TE	1.0	20		-	N 1836 V N 1847 C	SERVE S
EFFLUENT GROSS VALUE	REQUIREMENT	100		LBS/DY		14 a	DAY AVE	DAILYMAN	MG/L		DAILY	GRAE
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01042 1 0 0	MEASUREMENT		3	4 ' '			AF					
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LEAD, TOTAL	SAMPLE						SUM / ANG	1000				+
(AS PB)	MEASUREMENT			(28)				I	( 19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT		100	LBS/DY			0.2	0.4	MGA	12.30	DARLY	GRAE
NICKEL, TOTAL	SAMPLE					ne de la S	DOAY AVG	DAILYMAX	·	## A		
(AS NI)	MEASUREMENT			(26)				#	( 19)		500	
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NAME/TITLE	AEQUIREMENT		Salata (Espera				DVA YADO	DARLYMAN	<u> </u>			<u> </u>
PRINCIPAL EXECUTIVE OFFICE	R direction or supervision is	law that this document	t and all attachments t	were prepared und	ter my	1			TELEPHONE		DATE	
Desilor I Ado	properly gather and eval	At the information sub	amilted. Based on my	inquiry of the pers	on or persons	18-	elget,	the to	15 408-3700	$\vdash$		T
Bradley J. Adams	who manage the system, information submitted is,	, or those persons dire to the best of my know	icily responsible for ga electos and befel, trus	thering the information and co	ation, the	SIGNA	TUPE OF PR		110 400 3700	09	10	21
Plant Manager	aware that there are sign fine and imprisionment to	ificant penalties for eu	termolni selal prittimol	ion, including the	possibility of	EXE	CUTIVE OFFIC	ER OR	REA NUMBER	YEAR	MONTH	200
TYPED OR PRINTED						AU	THORIZED A	SENT C	DOE	TEAR	MONTH	DAY
COMMENTS AND EXPLANA												
	discharge of processed			waste water du	iring this mon	ith.						
∠ How existed th	rough this outfall 15 of	30 days during the	month.									
EPA Form 3320-1 (Rev 3/99	)				-				6			PAGE 10

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

000	-				
PENA	ATTEE	NAI	V 5/	NDD	HESS.

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

# DISCHARGE MONITORING REPORT (DMR)

STREET, SQUARE,	IL0048313
	PERMIT NUMBER

C01 0 DISCHARGE NUMBER

	101.000		THE PART AND TO		M	ONITO	PING	PERK	00		70.00		
	YEAR		MONTH		DAY			YEAR			NTH	DAY	
From:	0	9	0	9	0	1	To:	0	9	0	9	3	0

OCR0501

MAJOR (SUBR 01) F-FINAL

WWTP (FORMER 001C) EFFLUENT

\*\*\* NO DISCHARGE

PARAMETER		QUA	VITTY OR LOADIN	IG.		DUANTITY OR CON	CENTRATIO			NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMI	M	UNITS	EX	OF ANALYSIS	TYPE
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FFLUENT GROSS VALUE	PERMIT REQUIREMENT		-	LBS/DY		1.0 30 DAY ANG	DARLY M	44	MG/L	1.	DAILY	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT	4		( 26)		5.5	12.1		( 19)	0	240	GR
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LOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.028	0.040	( 03)	-	-		-	-	0	136	TM
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penelty of te direction or supervision in	accordance with a se	minm decimant to see	me that a selfice		3 rolled	111	TEL	EPHONE	-	DATE	
Bradley J. Adams	properly gather and evaluation manage the system, information submitted is, t	he the information aut or those persons dire to the best of my kno	omitted. Based on my lotty responsible for gall states.	inquiry of the per thering the inform	nation, the	GNATURE OF PRI	70.7. v 192	815	408-3700	09	10	21
Plant Manager TYPED OR PRINTED	aware that there are sign! fine and imprisionment for	ncent penetties for au r knowing violations.	bmitting false informet	lon, including the	possibility of	EXECUTIVE OFFICE		AREA	NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANATI	ION OF ANY VIOLAT	1ONS (Reference	ell attachmente i	here)		AUTHORIZED AC	JEN I	CODE				
PA Form 3320-1 (Rev 3/99)												

OCR0501

FACILITY Byn LOCATION 445	50 North Germ	ower Station	ſ										
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SOLIDS, TOTAL SUSPENDED 00630 1 0 EFFLUENT GROS OIL AND GREASI 03582 1 0 EFFLUENT GROS FLOW, IN COND THRU TREATMEI 50050 1 0						Para Caraca Caraca			NO	TE: Read inst	ructions	before completing	this form
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EI TEOERT GRO	_	PERMIT RECAUREMENT	REPORT	REPORT	MGD	13.3						DALLY	CONTR
	OO VALUE	SAMPLE	30 DAY AVG	DALYMAX			-+		27.5				- CAMIT
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		SAMPLE MEASUREMENT	Olympia.										1 13
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NAME/TIT PRINCIPAL EXECUT		I certify under penelty of it direction or supervision in	aw that this document	and all attachments w	ere prepared un	dermy		. 11	/// 1	ELEPHONE	10 TO	DATE	44.43
Bradley J. A	Adams	who manage the system.	or those persons direct	milied. Based on my it offer macconsible for cutt	nquiry of the per hadro the inform	son or persons	0	NATURE OF PR	folic 81	5 406-3700	09	10	21
Plant Man	nager	information submitted is, t aware that there are signi	ficant penelties for sub	wedge and beset, true, brnitting false informatic	accurate, and or on, including the	omplete. I am possibility of	40.00	ECUTIVE OFFI				~~	<del></del>
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TYPED ON PRI COMMENTS AND 1. Flow EPA Form 3320-	RINTED DEXPLANATI	fine and imprisionment for ION OF ANY VIOLAT ugh this outfall 12 of 3	r knowing violations.  TOHS (Reference	all attachments h			1			NUMBER	YEAR	MONTH	D

PERMIT	TEC	MAI	ASE/	AD	no	ECC
	IEE			AU		255

NAME

Exelon Generation Co., LLC

ADDRESS

4300 Winfield Road

Warrenville, IL 60555

FACILITY

**Byron Nuclear Power Station** LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

E01 0 DISCHARGE NUMBER

l			W 100000000		M	ONITO	PING	PERK	00				
YEAR		AR	MONTH		DAY			YEAR		MONTH		DAY	
From:	0	9	0	9	0	1	To:	0	9	0	9	3	0

OCR0501

MAJOR (SUBR 01)

F-FINAL

STORMWATER (FORMER 001E) STORMWATER

				_	
•	٠	NO	DISCHARGE		

Notes A decision than the control of								It: Head ins	ructions	before completing	this form
PARAMETER			VITTY OR LOADIN	IG .		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLI
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	ANALYSIS	TYPE
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	I certify under penalty of It direction or supervision in	accordance with a su	minm designed to see	on that or allford o	umanau I d	1/1		ELEPHONE		DATE	
Bradley J. Adams	propeny gamer and evelu- who manage the system, information submitted is, I	te the information sub or those persons dire to the best of my know	omitted. Based on my actly responsible for ga elector and belief, true	inquiry of the pers thering the inform	on or persons stion, the	SIGNATURE OF PRI		5 408-3700	09	10	21
Plant Manager TYPED OR PRINTED	aware that there are sign! fine and imprisionment for	licent peneities for su	bmilling false informat	ion, including the	possibility of	EXECUTIVE OFFICE AUTHORIZED AG		NUMBER	YEAR	MONTH	DAY

- 1. No Turbine building wastewater was discharged to the Stormwater Runoff Basin during the month.
- 2. There was no discharge of processed steam generator chemical cleaning wastewater during the month.
- 3. Flow existed through this outfall 9 of 30 days during the month. EPA Form 3320-1 (Rev 3/99)

SD

ATTEE	PLANET!	AL 1	

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60555

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

	12046313			E01 0	
P	ERMIT NUMBE	ER	DISC	HARGE NUM	BER
	-	MONITOR	ING PERIOD		
YEAR	MONTH	DAY	YEAR	MONTH	DAY

From: 0 9 0 9 0 1 To: 0 9

OCR0501

MAJOR (SUBR 01)

F-FINAL STORMWATER (FORMER 001E)

STORMWATER

\*\*\* NO DISCHARGE

MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	SAMPLE SUREMENT PERMIT LUREMENT SAMPLE SUREMENT PERMIT LUREMENT SAMPLE	AVERAGE	MAXIMUM	UNITS ( 26) LBS/DY	MINIMUM	AVERAGE	MAXIMUN 2.0	( 19)	EX	OF ANALYSIS 500	TYPE
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OW, IN CONDUIT OR 8 RU TREATMENT PLANT MEAS	AMPLE SUREMENT	0.370	0.882	( 03)	-				0	290	TM
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direction	) or supervision in	accordance with a s	t and all attachments w yetem designed to asso	on that audition	namorous /	1011	1	TELEPHONE		DATE	
Bradley J. Adams who mai	gether and evelu nage the system, ion submitted is, i	te the information au or those persons din to the bast of my kno	imitted. Based on my i icity responsible for gas elector and belief true.	inquiry of the per thering the inform	son or persons	SIGNATURE OF PRI		815 406-370	0 09	10	21
Plant Manager Jaware th	hat there are signi	ficant peneities for su r knowing violations.	ternitting false informati	lan, including the		EXECUTIVE OFFIC		REA NUMBE	RYEAR	MONTH	DAY
MMENTS AND EXPLANATION OF	ANV VIOL AT	TONG (Belevene	all attachments		1_	AUTHORIZED AG	SENT C	ODE	<u> T</u>	L	<u> </u>

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

#### PERMITTEE NAME/ADDRESS

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60666

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

# **DISCHARGE MONITORING REPORT (DMR)**

	IL0048313	
A 100	PERMIT NUMBER	

001 0 DISCHARGE NUMBER

- 1				×	M	ONITO	DRING	PERK	00				
[	YEAR		MO	NTH	D	AY		YEAR MONTH			DAY		
From:	0	9	0	9	0	1	To:	0	9	0	9	3	0

OCR0501

MAJOR (SUBR 01) F-FINAL

**COOLING SYSTEM BLOWDOWN** EFFLUENT

* * * MO DISCHARG	<b>₽</b> □ · · ·

PARAMETER		QUAN	ITTTY OR LOADIN	G		QUANTITY OF	R CONC	ENTRATIO			NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERA	GE	MAXIM	м	UNITS	EX	OF ANALYSIS	TYPE
эн	SAMPLE MEASUREMENT		•	_	8.54		-	8.69		( 12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT			l —	6.0 METERIAL	-		9.0 MAXON	M	SU		WEERLY	GRAB
XOPPER, TOTAL AS CU)	8AMPLE MEASUREMENT		-	( 26)			- 1	0.019		( 19)	0	240	GA
1042 1 0 0 FFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY	1			DALY M	A LOS DE CONTROL	MG/L		WEERLY	GRAB
INC, TOTAL AS ZN)	8AMPLE MEASUREMENT			( 26)			-	0.041		( 19)	0	240	GR
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY				1.0 DAILY M	ΔY	MG/L		WEERLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT			( 26)			- 1			( 19)		500	
34044 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY	1			0.05 DARLY M	ax	MG/L		WEEKLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	17.98	28.04	( 03)			- 1		- '		0	136	CN
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY ANG	DALYMAX	MGD	-							DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT			( 26)		0.18		0.34		( 19)	0	240	GR
60060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		30 DAY	maG.	DALLY M	MY	MG/L		WEEKLY	GRAB
IYDRAZINE	SAMPLE MEASUREMENT	4-		( 26)			-			( 19)		500	
31313 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	4		LBS/DY	-		-	0.031 DAILY M		MG/L		DAILY WHEN	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of I direction or aupervision in	accordance with a s	esea of benejash mater	on that mailled	nemonal	R 11	11	11		EPHONE		DATE	
	properly gather and evelu- who manage the system, information submitted is,	te the information sub or those persons dire to the best of my kno	milited. Based on my city responsible for ga eledge and belief, true.	inquiry of the per thering the inform . Accurate, and o	nation, the	SIGNATURE	OF PRIN	ICIPLE	815	406-3700	09	10	21
Plant Manager TYPED OR PRINTED	aware that there are signi fine and imprisionment fo	ificant penalties for au	bmitting false informati	ion, including the	possibility of	EXECUTIVE			AREA	NUMBER	YEAR	МОМТН	DAY
OMMENTS AND EXPLANAT	TON OF ANY VIOLAT	TONS (Reference	all attachments	hara)		AUTHORS	LED AGE		CODE		Ц	L	
er Special Condition 4C., the					ded on the atta	chment							
EE ATTACHED		# ************************************											
EPA Form 3320-1 (Rev 3/99)	g.								SD				PAGE 1 OF

PERMITTEE	

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60655

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313 PERMIT NUMBER

002 0 DISCHARGE NUMBER

					М	ONITO	DRING	PERK	<b>X</b>				
	YE	AR	МО	NTH	D/	AY		YE	AR	MO	нти	D.	AY
From:	0	9	0	9	0	1	To:	0	9	0	9	3	0

OCR0501

MAJOR (SUBR 01)

F-FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

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

PARAMETER		QUA	NTTTY OR LOADIN	IG .		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
(A)WEIEN		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
ч	SAMPLE MEASUREMENT	****						( 12)			
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			1	6.0 herengan		9.0 MAXIMUM	SU		SEE PERMIT	GRAS
OLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			( 26)				( 19)			
0530 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT			LBS/DY		15.0 30 DAY AVG	30.6 DAILY MAX	MG/L		SEE PERMIT	GRAS
HROMIUM, HEXAVALENT AS CR)	8AMPLE MEASUREMENT		<del>(1465) (1</del> 6	( 26)				( 19)			
11032 1 0 0 EFFLUENT GROSS VALUE	PERMIT	-		LBS/DY		O)1 30 DAY AVS	DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL AS CR)	SAMPLE MEASUREMENT			( 26)				( 19)			
11034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		-	LBS/DY		30 DAY AVG	DAILY MAX	MG/L		DALLY	GRAS
XOPPER, TOTAL AS CU)	SAMPLE MEASUREMENT			( 26)				( 19)			
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECILIFIEMENT			LBS/DY		8.5 30 DAY AVG	DAEY MAX	MG/L		DAILY	GRAS
RON, TOTAL AS FE)	SAMPLE MEASUREMENT			( 28)	-			( 19)			
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT	5	-	LBS/DY		39 DAY AVG	DAELY MAK	MG/L		DAILY	GRAS
LEAD, TOTAL AS PB)	SAMPLE MEASUREMENT			( 26)				( 19)			
01061 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	100		LBS/DY		0.2 30 DAY AVG	DAELY MAX	MG/L		DAILY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under peneity of I direction or supervision in	accordance with a s	vistem designed to ass	ure that qualified	personnel /	5.10	/// TE	LEPHONE		DATE	
Bradley J. Adams	properly gather and evaluate who manage the system, information submitted is,	te the information au or those persons din	breitted. Based on my solly responsible for ga	inquiry of the pen thering the inform	eon or persons	SIGNATURE OF PRI	INCIPLE 815	408-3700	09	10	21
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment to	ficant penalties for a	omitting talse informat	tion, including the	possibility of	EXECUTIVE OFFICE AUTHORIZED AC	74.65	NUMBER	YEAR	MONTH	DAY

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

EPA Form 3320-1 (Rev 3/99)

SD

PERM	MITTEE	NAM	F/AD	DRESS
	THE R PERSON	1 ST MARK		UNEGO

NAME

Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, Il 60555

FACILITY Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

IL0048313	
PERMIT NUMBER	3

002 0	
DISCHARGE NUMBE	R

					M	ONITO	DAING	PERK	00		V 1,000	N/N 21 //	70.00
From:	YE	AR	MO	NTH	D,	AY		YE	AR	MO	NTH	D/	AY
	0	9	0	9	0	1	To:	0	9	0	9	3	0

OCR0501

MAJOR (SUBR 01) F-FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

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

AVERAGE  REPORT 30 DAY AVG	MAXIMUM  MAX	UNITS ( 26) LBS/DY ( 26) LBS/DY ( 26) LBS/DY ( 03) MGO	MINIBALA	AVERAGE  1.0 30 DAY AVE  30 DAY AVE  15.0 30 DAY AVE	DALY M	u k	UNITS ( 19) MG/L ( 19) MG/L ( 19) MG/L	NO. EX	PREQUENCY OF ANALYSIS DAILY DAILY TWICE MONTH	GRAB GRAB GRAS TOTALZ
Friedrich der ein Germann der Einstelle	PR CONTRACTOR CONTRACT	( 26) LBS/DY ( 26) LBS/DY ( 26) LBS/DY ( 03)		1.0 30 DAY AMS 1.0 30 DAY AMS	2.0 DAKLY M	ix .	( 19) MG/L ( 19) MG/L ( 19) MG/L		DAILY  TWICE  TWICE	GRAS .
Friedrich der ein Germann der Einstelle	PR CONTRACTOR CONTRACT	( 26) LBS/DY ( 26) LBS/DY ( 03)		30 DAY ANG 30 DAY ANG 15.0	DAILY M	<b>V</b>	( 19) MG/L ( 19) MG/L	7. 2	DAILY TWICE/ MONTH	GRAS .
Friedrich der ein Germann der Einstelle	PR CONTRACTOR CONTRACT	( 26) ( 28) ( 88/0Y		30 DAY ANG	2.0 DAILY M	<b>V</b>	MG/L ( 19) MG/L		TWICE	GRAB.
Friedrich der ein Germann der Einstelle	PR CONTRACTOR CONTRACT	( 28) LBS/DY ( 03)		30 DAY ANG	20.0		( 19) MG/L	5 9 9 9	TWICE	GRAB.
Friedrich der ein Germann der Einstelle	PR DESCRIPTION OF THE PROPERTY	LBS/DY ( 03)		15.0	20.0		MG/L		MONTH	
Friedrich der ein Germann der Einstelle	PR DESCRIPTION OF THE PROPERTY	( 03)				*			MONTH	
Friedrich der ein Germann der Einstelle	PR DESCRIPTION OF THE PROPERTY								TWICE	TOTALE
Friedrich der ein Germann der Einstelle	PR DESCRIPTION OF THE PROPERTY	MGO								TOTALZ
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ile the information so or those persons di to the best of my kny	ubmitted. Based on my rectly responsible for g coulodon and ballet true	y inquiry of the per athering the inform	nation, the	SIGNATURE OF PI	RINCIPLE	815 4	08-3700	09	10	21
mount panemes for a r knowing violations.	submitting false informs	ition, including the	possibility of				<b>IUMBER</b>	YEAR	MONTH	DAY
	accordance with a in the information so in those persons di the best of my lan card penalties for a landwing violations.	accordance with a system designed to as is the information submitted. Blessed on my ir those persons directly responsible for g the best of my invovidage and best, but can't penalties for submitting false informations knowing violations.	accordance with a system designed to assure that qualified is the information submitted. Based on my inquiry of the per or those persons directly responsible for gathering the inform the best of my innovintege and being true, accounts, and of card consilies for submitting false information, includes the card consilies for submitting false information, includes the card consilies.	A STATE OF THE CONTROL OF THE CONTRO	accordance with a system designed to assure that qualified personnal is the information submitted. Blessed on my inquiry of the person or parsonal in those persons directly responsible for gathering the information, the SIGNATURE OF PICENT penalties for submitting false information, including the possibility of knowing violations.  AUTHORIZED	is the information submitted. Blased on my inquiry of the person or personal in the information submitted. Blased on my inquiry of the person or personal in the person directly responsible for gethering the information, the SIGNATURE OF PRINCIPLE cant penalties for submitting false information, including the possibility of knowing violations.  AUTHORIZED AGENT	accordance with a system designed to assure that qualified personnel is the information submitted. Blessed on my inquiry of the person or parsonal in those persons directly responsible for gathering the information, the SIGNATURE OF PRINCIPLE cant penalties for submitting false information, including the possibility of knowing violations.  ALITHORIZED AGENT	accordance with a system designed to assure that qualified personnel is the information submitted. Based on my inquiry of the person or personal in those persons directly responsible for gethering the information, the street of my innovindege and betef, true, accurate, and complete. I am carried personal control of the best of my innovindege and betef, true, accurate, and complete. I am carried personal control of the best of my innovindege and betef, true, accurate, and complete. I am carried personal control of the best of my innoving violations.  SIGNATURE OF PRINCIPLE  EXECUTIVE OFFICER OR AREA NUMBER  AUTHORIZED AGENT	to contains with a system designed to assure that qualified personnel is the information submitted. Blased on my inquiry of the person or persons or those persons directly responsible for gathering the information, the street of my innovindes and bettef, true, accurate, and complete. I am cant penalties for submitting false information, including the possibility of knowing violations.  SIGNATURE OF PRINCIPLE  EXECUTIVE OFFICER OR  ALITHORIZED AGENT	is the information submitted. Blassed on my inquiry of the person or personal is the information submitted. Blassed on my inquiry of the person or personal in the best of my involvedge and belief, true, accurate, and complete. I am cart penalties for submitting false information, including the possibility of knowing violations.  ALITHORIZED AGENT  ALITHORIZED AGENT

# ATTACHMENT TO COOLING SYSTEM BLOWDOWN LINE (Outfall 001) **DISCHARGE MONITORING REPORT**

For Exelon Byron Station Permit IL0048313 September 2009

#### **BLOWDOWN TEMPERATURE MONITORING:**

Date	Calculated Maximum Allowable Blowdown Temp. (Degrees F)	Maximum Actual Blowdown Temp. (Degrees F)
09/05/09	120	87.2
09/12/09	120	87.7
09/19/09	120	83.6
09/26/09	120	80.6

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 September 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 September 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.

Date	Dosins (Min	
	U-1	<u>U-2</u>
09/01/09	38	39
09/02/09	39	40
09/03/09	46	45
09/04/09	49	45
09/05/09	45	45
09/06/09	54	45

#### HALOGEN DOSING CURVE

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

Date: 09/02/09

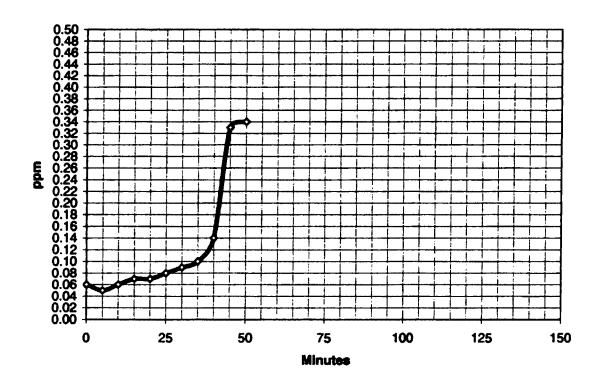
Analyzed by: J.W.

Unit: 1

Time: 11:29

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing (Min	
	U-1	U-2
09/07/09	45	45
09/08/09	40	41
09/09/09	40	40
09/10/09	40	40
09/11/09	38	40
09/12/09	40	39
09/13/09	39	40

# HALOGEN DOSING CURVE

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

Date: 09/08/09

Analyzed by: T. M.

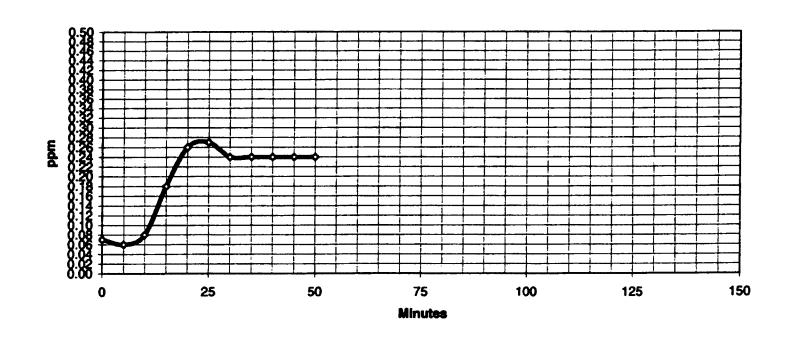
Unit: 2

Time: 11:13

Reviewed by: D. M.

Note:

The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing (Minu	
	<u>U-1</u>	<u>U-2</u>
09/14/09	40	40
09/15/09	BIR16	40
09/16/09	BIR16	40
09/17/09	BIR16	40
09/18/09	BIR16	40
09/19/09	BIR16	40
09/20/09	BIRI6	40

### HALOGEN DOSING CURVE

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

Date: 09/15/09

Analyzed by: M. H.

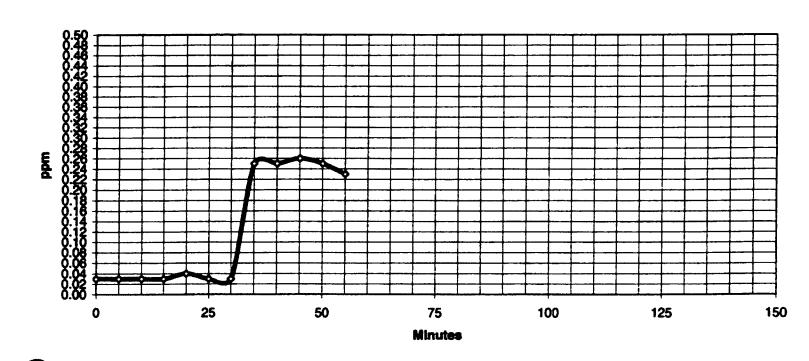
Unit: 2

Time: 13:00

Reviewed by: D. M.

Note:

The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



Date	Dosing (Minu	
	U-1	U-2
09/21/09	BIRI6	40
09/22/09	BIR16	40
09/23/09	BIR16	39
09/24/09	BIR16	35
09/25/09	BIR16	40
09/26/09	BIR16	40
09/27/09	BIR16	40

### HALOGEN DOSING CURVE

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

Date: 09/21/09

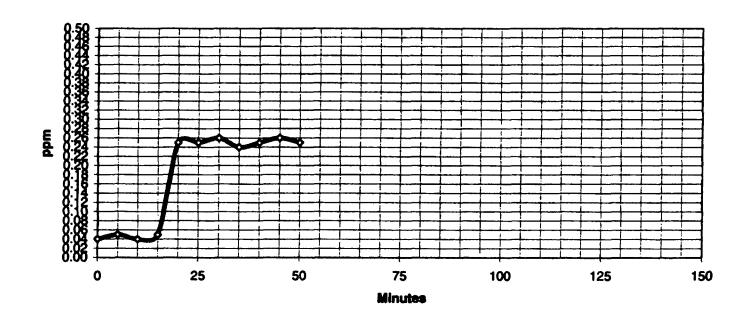
Analyzed by: D. L.

Unit: 2

Time: 12:42

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All



<u>Date</u>	<u>Dosing Time</u> (Minutes)			
	U-1	<u>U-2</u>		
09/28/09	BIR16	35		
09/29/09	BIR16	35		
09/30/09	BIR16	40		

#### HALOGEN DOSING CURVE

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

Date: 09/28/09

Analyzed by: J. D.

Unit: 2

Time: 12:15

Reviewed by: D. M.

Note: The limit of detection for the instrument as tested in the Station Laboratory is 0.02 mg/L. All

