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

November 19, 2009

LTR: BYRON 2009-0129

File: 2.09.0411

1.10.0101

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

Subject:

Byron Station Monthly Discharge Monitoring Report

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

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

Respectfully.

Bradley J. Adams Plant Manager

Byron Nuclear Generating Station

BJA/ZC/sdk

Attachments

PERMITTEE NAME/ADDRE	SS						ni (wan)			MAJOR		OCHUSUI	
NAME Exelon Genera	ition Co., LLC			L0048313	7 1		A01 0		7	(SUBR 01)			
ADDRESS 4300 Winfield	Road		PEF	RMIT NUMBER		DIS	CHARGE NU	MBER	1	F-FINAL			
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Bradley J. Adams	properly gather and evelu- who manage the system,	or those persons dire	colly responsible t	or authering the informe	tion the		7.	7-44	815	406-3700	09	11	19
Plant Manager	information submitted is, t aware that there are signi	ficant penalties for su	medge and belief, comitting false info	, true, accurate, and cor omation, including the p	nplete. I am cossibility of		TURE OF PR		ARE			**	
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PAGE 1 OF 2

EPA Form 3320-1 (Rev 3/99)

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	E/TITLE CUTIVE OFFICER	I certify under penelty of i direction or supervision in	a differ anaelments of	mana declared to con-			0111	11	TELEPHONE		DATE	
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PAGE 2 OF 2

EPA Form 3320-1 (Rev 3/99)

DISCHARGE NUMBER

DEDA M	 	 	
PERMI			

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 B01 0

PERMIT NUMBER

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EFFLUENT

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Bradley J. Adams	properly gather and evaluation manage the system, information submitted is,	the the information sub , or those persons dire to the best of my kno	omitted. Based on my city responsible for ga elector and belief, true	inquiry of the per thering the inform	son or persons	SIGNATURE OF PRI	INCIPLE	815	408-3700	09	11	19
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EPA Form 3320-1 (Rev 3/99)								SD		-		PAGE 1 OF

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PAGE 1 OF 2

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Bradley J. Adams	properly gather and evaluation manage the system.	he the information sub or those persons dire	omitted. Based on my actly responsible for ga	inquiry of the pers thering the inform	on or persons	SIGNATURE OF PRI	815	406-3700	09	11	19
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EPA Form 3320-1 (Rev 3/99)

PERM	ATTEE	NAME	ADD	DECC

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	
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bradley J. Adams I certify under pensity 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 getter and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible to gettering the information, the information submitted is, to the based on my inquiry of the person or persons who manage the system, or those persons and based, in the person or persons who manage the system, or those persons and based, in the person or persons who manage the system, or those persons and based, in the person or persons who manage the system, or those persons and based in the person or persons who manage the system, or those persons of my inquiry of the person or persons who manage the system, or those persons and personnel to the person or persons who manage the system, or those persons and personnel to the person or persons who manage the system, or those persons of my inquiry of the person or persons who manage the system, or those persons of my inquiry of the person or persons who manage the system, or those persons of my inquiry of the person or persons who manage the system, or those persons of my inquiry of the person or persons and person or persons who manage the system, or those persons of my inquiry of the person or persons and person or person and person or persons and person or person or persons and person or persons and person or person or persons and person or person	and state of the s	MEASUREMENT										
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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. Lam SIGNATURE OF PRINCIPLE		direction or supervision in	accordance with a se	estern designed to see	um that auniflac	nereconel /	2111	14	TELEPHONE		DATE	
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FACILITY Byron Nuclear F LOCATION 4450 North Gen Byron, IL 61010	man Church Road	From:	YEAR MO	NTH DA		YEAR MONTH	DAY 3 1	_	••	* NO DE	BCHARGE]
		QUAN	ITITY OR LOADING	3		QUANTITY OR COR	CENTRATI		: Read inst		before completing	
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIB		UNITS	NO. EX	OF ANALYSIS	SAMPL
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	4-11-4-11-1	<0.5	40.	5	(19)	0	240	СР
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY	<u> </u>	15.0 30.DAY AVG	DARLY	D	MG/L		WEEKLY	COMP
OIL AND GREASE	SAMPLE MEASUREMENT			(26)	•••••	<1.4	<1.		(19)	. 0	240	GR
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S.	PERMIT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of t direction or supervision in	aw that this document	and all attachments w	are prepared und	or my	1111	11	TEL	EPHONE		DATE	
Bradley J. Adams	who manage the system, information submitted is,	te the information aub or those persons dire to the best of my know	milited. Besed on my is city responsible for gati decine and build to se	nguiry of the pers	on or persons	SIGNATURE OF PRI	MCIPI E	815	406-3700	09	11	19
Plant Manager Typeo on Printed	aware that there are signifine and imprisionment for	ficent penellies for sul	bmitting false informatio	on, including the p	cossibility of	EXECUTIVE OFFICE	ER OR	AREA	NUMBER	YEAR	MONTH	DAY

SD

PAGE 1 OF 1

EPA Form 3320-1 (Rev 3/99)

		DDRESS

NAME Exelon Ge

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

7777	IL0048313	
	PERMIT NUMBER	700 Marc 200

From:

E01 0 DISCHARGE NUMBER

	- A ALALAND			M	ONITO	DRING	PERK	XO				
YE	AR	MO	NTH	D/	AY		YE	AR	MO	HTM	D/	AY
0	9	1	0	0	1	To:	0	9	1	0	3	

OCR0501

MAJOR (SUBR 01) F - FINAL

STORMWATER (FORMER 001E)

STORMWATER

				-	
	٠	NO	DISCHARGE		•••

				_					COUNTY	before completing	U NO PORTITI
PARAMETER		QUAN	TITY OR LOADIN	G		MOD RO YTTTNAUK	CENTRATION		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	4 UNITS	EX	ANALYSIS	TYPE
PH	SAMPLE MEASUREMENT				4		71	(12)		500	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			l 	6.0 MIDIDALIM	2222	9.0 MAXIMUS	SU		SEE	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)				(19)		500	
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-		LBS/DY		15.0 30 DAY AVG	DALLY MA	MG/L		SEE	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			(26)			A	(19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LB\$/DY	4	0.1 30 DAY AVG	DAILY MA	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASURÉMENT			(26)	•••••			(19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1		LBS/DY	<u> </u>	1.0 30 DAY AVG	2.0 DAILY MA	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			(28)				(19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		0.5 30 DAY AVG	DARLY MA	x MG/L		DAILY	GRAS
RON, TOTAL (AS FE)	SAMPLE MEASUREMENT			(26)				(19)		500	
01046 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY	-	30 DAY AVG	DALYMA			DARY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT		(1000)	(28)	84			(19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		0.2 30 DAY AVG	DAILY MA	MG/L		DALY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under peneity of i direction or supervision in	accordance with a si	eas of beginned to see	um that mailled	nerecensel /	2 00 1	11	TELEPHONE		DATE	
Bradley J. Adams	properly gather and evaluation manage the system, information submitted is,	de the information sub or those persons dire	bmitted. Based on my activ responsible for or	inquiry of the per	son or persons	GRATURE OF PRI		815 408-3700	09	11	19
Plant Manager	aware that there are signi	ificant penalties for su	mouge and been, true Abmitting false informat	, accurate, and o tion, including the	- 1 mil	EXECUTIVE OFFIC		NEA			
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.	7, 4, 4, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,			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 7 of 31 days during the month.

 EPA Form 3320-1 (Rev 3/99)

SD

PAGE 1 OF 2

			Di	ISCHARGE N	IONITORING R	EPORT (DMR)				OCR0501	
PERMITTEE NAME/ADDRESS NAME Exelon Generation ADDRESS 4300 Winfield Ro	on Co., LLC pad			048313 T NUMBER		E01 0 DISCHARGE NUI	MBÉR	MAJOR (SUBR 01) F - FINAL			
Warrenville, IL 6	0655				ONITORING PERIO					RMER 001E)	
FACILITY Byron Nuclear P	ower Station		YEAR M	ONTH DA		AR MONTH	DAY	STORMWA	TER		
	man Church Road	From:	0 9 1		1 To: 0	9 1 0	3 1			SCHARGE]
PARAMETER		QUA	NTITY OR LOADI	NG		NUANTITY OR CON		IE. Mead that	NO.	FREQUENCY	SAMPL
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MUMIXAM	UNITS	EX	OF ANALYSIS	TYPE
NICKEL, TOTAL (AS NI)	SAMPLE MEASUREMENT			(26)				(19)		500	
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	<u> </u>	-	LBS/DY		1.0 30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
ZINC, TOTAL (AS ZN)	SAMPLE MEASUREMENT		4	(26)	*********			(19)		500	
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	<u></u>		LBS/DY	-	30 DAY AVG	DAILY MAX	MG/L		DALLA	GRAB
OIL AND GREASE	SAMPLE MEASUREMENT			(26)		1.7	1.9	(19)	0	290	GR
03682 1 0 0 EFFLUENT GROSS VALUE	PERMIT		-	LBS/DY		15.0 30 DAY AVG.	20.0 DAILY MAX	MG/L		(WICE/	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.316	0.678	(03)					0	290	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 36 DAY AVS	DAILY MACK	MGD	<u> </u>					TWICE/ MONTH	TOTAL
	SAMPLE MEASUREMENT										
aganysnoue ar leasurement sona ser	PERMIT REQUIREMENT										
e all menochalise de la merca analise i actività de la merca d	SAMPLE MEASUREMENT										
	PERMIT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	i certify under penalty of direction or supervision is	law that this documen	nt and all attachments	were prepared unc	ter my	2 111	111	ELEPHONE		DATE	
Bradley J. Adams	properly gather and evaluation manage the system, information submitted is,	ute the information su , or those persons dir to the best of my line	brnitted. Based on m actly responsible for g miedge and belief, tru	y inquiry of the pen pathering the inform se, accurate, and co	son or persons (Castion, the omplete, I am	SIGNATURE OF PR	UNCIPLE 81	5 408-3700	09	11	19
Plant Manager	aware that there are sign	afficient penalties for a or knowing violations.	ubmitting false informa	ation, including the	possibility of	EXECUTIVE OFFICE	CER OR AR	EA NUMBER	YEAR	MONTH	DAY

SD

PAGE 2 OF 2

EPA Form 3320-1 (Rev 3/99)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERA	ATTEE	NAM	E/A	DOB	FSS

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	MONITO	HING REPOR	TT (DMR)
AMERICAN STATE	5 77			
	11 0048313		gar-c	001.0

The state of the s	
PERMIT NUMBER	DISCHARGE NUMBER

l		2700			M	ONITO	DRING	PERK	XO				
	YEAR		AR MONTH		D.	DAY		YEAR		MONTH		DAY	
From:	0	9	1	0	0	1	To:	0	9	1	0	3	1

OCR0501

MAJOR (SUBR 01) F-FINAL

COOLING SYSTEM BLOWDOWN EFFLUENT

*** NO DISCHARGE

								OIE: Read ins	tructions	before completing	this form
PARAMETER			ITITY OR LOADIN	G		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	ANALYSIS	TYPE
РН	SAMPLE MEASUREMENT	*********	••••		8.38	4-24-3-12-20	8.59	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			-	6.0 Minoralis		9.0 MAXIMUM	su		WEERLY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			(26)	(1332, 1333, 1		0.011	(19)	0	240	GR
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		AL MANAGEMENT	DALLY MAX	MGAL		WEEKLY	GRAB
ZINC, TOTAL (AS ZN)	SAMPLE MEASUREMENT			(26)			0.027	(19)	0	240	GR
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECNUREMENT		-	LBS/DY			DARY MA			WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT		**************************************	(26)	-	× ************************************		(19)		500	
34044 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECNEREMENT			LBS/DY	-		DALYMA	MG/L		WEERLY	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	18.07	26.18	(03)	-	THE PARK THAT THE PARK THE PAR			0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECURREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD		11.0			75	DALY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	******	1 #10	(26)	+	0.11	0.46	(19)	0	240	GA
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECURREMENT		-	LBS/DY		0.2 30 DAY AVG	DAILY MAX	MGAL		WEELOLY	GRAB
HYDRAZINE	SAMPLE MEASUREMENT			(26)		**************************************		(19)		500	
81313 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT	-		LBS/DY	$\frac{Z}{Z}$	1	DALY MAX	MG/L	Teach.	DAILY WHEN	GRAS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of direction or supervision is	accordance with a s	vistem designed to ass	ure that custified	personnel	R 11	111	TELEPHONE		DATE	::
Bradley J. Adams	properly gather and evaluation manage the system, information submitted is,	the the information sul , or those persons dire to the best of my kno	omitted. Based on my otly responsible for ga eledge and belief, true	inquiry of the pe thering the information accurate, and o	mation, the	SIGNATURE OF PR		115 406-3700	09	11	19
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment fo	ificant penalties for su ir knowing violations.	bmitting false informat	ion, including the	possibility of	EXECUTIVE OFFICE		REA NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANAT Per Special Condition 4C., the						AUTHORIZED A	GENI C	OOE	J		
SEE ATTACHED	The second of th		wie Calculation (el	sus are provi	ioed on the atta	criment					
EPA Form 3320-1 (Rev 3/99)							s				PAGE 1 OF

OCR0501

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PAGE 1 OF 2

PERMITTEE NAME/ADD	RESS							MAJOR			
	neration Co., LLC			48313		002 0		(SUBR 01)			
ADDRESS 4300 Winfie	· · · · · · · · · · · · · · · · · · ·		PERMIT	NUMBER		DISCHARGE NU	MBER	F-FINAL			
Warrenville	, IL 60555	i	<u></u>					STORMWA	TER RU	INOFF BASIN OV	ERFLOW
FACILITY Byron Nucle					NITORING PERI			STORMWA	TER		
	ear Power Station German Church Road	F		ONTH DA		EAR MONTH	DAY				•
Byron, IL 6		From:	0 9 1	0 0	1 To: 0	9 1 0	3 1	••	. NO DE	BCHARGE X]
J,, - V							***	T. Davidson			
		QUA	VITTY OR LOADIN	ıa l		QUANTITY OR CON		E: Mead Inst		FREQUENCY	CARLES CONTRACTOR
PARAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	OF ANALYSIS	SAMPLE TYPE
РН	SAMPLE MEASUREMENT				· · · · · · · · · · · · · · · · · · ·			(12)		AUCTOO	
00400 1 0 0	PERMET				6.0		8.0	4	8 50265	oce in	PF SEAL.
EFFLUENT GROSS VAL					MINIMUM	111111	MANCHALIM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL	SAMPLE			(26)				(19)			
SUSPENDED 00630 1 0 0	MEASUREMENT	993,199,11999	400000000000000000000000000000000000000	,/				1 (19)			
EFFLUENT GROSS VAL	CONTROL OF THE PROPERTY OF THE		-	LBS/DY		15.0 30 DAY AVG	DALY MAX	MG/L		SEE	GRAB
CHROMIUM, HEXAVALE	NT SAMPLE		2 - QDA-2	1.00			CASSILLA	.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
(AS CR)	MEASUREMENT			(26)			L	(19)			
01032 1 0 0 EFFLUENT GROSS VAL	PERMIT UE REDUIREMENT		224	LBS/DY	2.00	30 DAY AVG	0.2	MG/L		DAILY	GRAS
CHROMIUM, TOTAL	SAMPLE					30 DAT APG	DAILY MAX				
(AS CR)	MEASUREMENT		***************************************	(26)				(19)			
01034 1 0 0 EFFLUENT GROSS VAL	PERMIT UE RECKIREMENT		1	LBS/DY	1	1.0	2.0	MG/L	10	DAILY	GRAB
COPPER, TOTAL	SAMPLE			-	- montaning services	30 DAY AVG	DARYMAX		30		
(AS CU)	MEASUREMENT			(26)			112 11000 M MONG HARM CONTINUE	(19)			
01042 1 0 0 EFFLUENT GROSS VAL	PERMIT UE RECHIREMENT		10	LBS/DY		0.5	1.0	MGAL		DARY	GRAB
IRON, TOTAL	SAMPLE					30 DAY ANG	DARLYMAX				GIFE
(AS FE)	MEASUREMENT			(26)				(19)		m e	
01045 1 0 0	PERMIT			LBS/DY		1.0	1.0	MG/L	47. 6	DARY	GRAS
EFFLUENT GROSS VALUEAD, TOTAL	UE RECEIREMENT					30 DAY AVG	DAILY MAX	MOL.			ureo.
(AS PB)	MEASUREMENT		********	(26)	**********			(19)			
01061 1 0 0	PERMIT		The Lorenza	LBS/DY		0.2	64	MGA	16.12	DALLY	1889 - C. V
EFFLUENT GROSS VAL	UE REQUIREMENT	No.				30 DAY AVG	DAILY MAX	MCS/L		Date:	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFF	Imagents of arthurstatus	n accordance with a s	ystem designed to ass	ure that qualified o	emonnel /	3 11.	/// п	ELEPHONE		DATE	
Bradley J. Adams	who manage the system	As the information suf , or those persons din	bmitted. Based on my activ responsible for or	inquiry of the pers	on or persons	mary,	A 815	406-3700	09	11	19
Plant Manager	information submitted is, aware that there are sign	to the best of my kno	wiedge and belief, true	, accurate, and co	molete. I am	SIGNATURE OF PR				<u> </u>	
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.		mer's exercise filt and i	Assessment or	AUTHORIZED A	7410	NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPL	ANATION OF ANY VIOLAT	NONS (Reference	all attachments	here)				<u> </u>			1
	building wastewater was d				e month.						
2. This discha	rge point was not used this	month.									

EPA Form 3320-1 (Rev 3/99)

PERA	ATTEF	NAME	ADD	DECC

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, II 60555

FACILITY Byron Nuclear Power Station LOCATION 4460 North German Church Road

Byron, IL 61010

0000000		
	IL0048313	
	PERMIT NUMBER	DISC

	DIOCULADOR AND MOCO
9	USURVINGE NUMBER

					M	ONITO	DRING	PERK	00				
	YE	AR	MO	HTM	D	AY		YE	AR	MO	нти	D	AY
From:	0	9	1	0	0	1	To:	0	9	1	0	3	1

OCR0501

MAJOR (SUBR 01) F - FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

··· NO DISCHARGE X ···

NOTE: Read instructions before completing this form QUANTITY OR LOADING FREQUENCY QUANTITY OR CONCENTRATION SAMPLE PARAMETER OF TYPE MAXIMUM UNITS EX AVERAGE MINIMUM AVERAGE MAXIMUM UNITS **ANALYSIS** NICKEL TOTAL SAMPLE (26) (19) (AS NI) MEASUREMENT 01067 1 0 0 PERMIT 10 20 LBS/DY MG/L DAILY. GRAB EFFLUENT GROSS VALUE REQUIREMENT DAILY MAX 30 DAY AVG ZINC, TOTAL SAMPLE (26) (AS ZN) (19) MEASUREMENT 01092 1 0 0 PERMIT 10 20 LBS/DY MGAL DALY GRAB EFFLUENT GROSS VALUE REQUIREMENT 30 DAY AWG DAILY MAX SAMPLE OIL AND GREASE (26) (19) MEASUREMENT 03582 1 0 0 PERMIT JWICE! 15.0 20.0 LBS/DY MGAL GRAB EFFLUENT GROSS VALUE REQUIREMENT 30 DAY AVG DAILY MAX FLOW, IN CONDUIT OR SAMPLE (03) THRU TREATMENT PLANT MEASUREMENT 50050 1 0 0 REPORT REPORT TWICE/ MGD TOTALIZ EFFLUENT GROSS VALUE 30 DAY AVG DASLY MAX MONTH SAMPLE MEASUREMENT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE certify 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 properly gather and evalues 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 befief, true, accurate, and complete. I arm aware that there are significant penalties for submitting false information, including the possibility of DATE 815 406-3700 Bradley J. Adams 09 11 19 SIGNATURE OF PRINCIPLE Plant Manager **EXECUTIVE OFFICER OR** AREA ine and imprisionment for knowing violations. TYPED OR PRINTED NUMBER YEAR MONTH DAY **AUTHORIZED AGENT** COD COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) EPA Form 3320-1 (Rev 3/99) PAGE 2 OF 2

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

For Exelon Byron Station Permit IL0048313 October 2009

BLOWDOWN TEMPERATURE MONITORING:

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

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

HYDRAZINE MONITORING:

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

TOTAL QUANTITY DISCHARGED: N/A

TOTAL DURATION OF DISCHARGE: N/A

ATTACHMENT TO COOLING SYSTEM BLOWDOWN LINE (Outfall 001) DISCHARGE MONITORING REPORT (Page 2)

For Exelon Byron Station Permit IL0048313 October 2009

COMMENTS:

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

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

HALOGEN DOSING CURVE

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

Date: 10/05/09

Analyzed by: J. D.

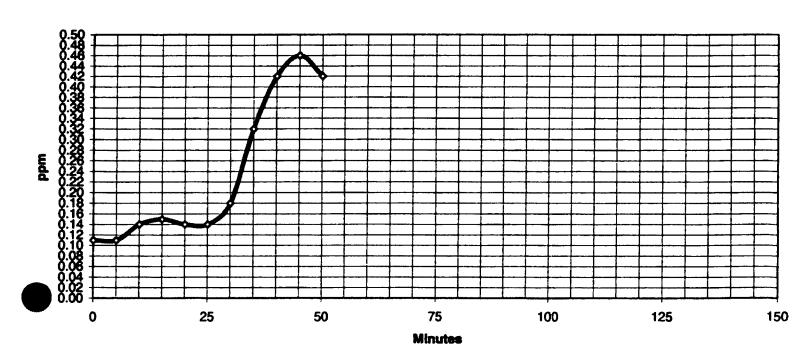
Unit: 2

Time: 10:14

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-1	<u>U-2</u>		
10/12/09	30	30		
10/13/09	30	30		
10/14/09	30	30		
10/15/09	30	30		
10/16/09	30	30		
10/17/09	30	30		
10/18/09	34	32		

HALOGEN DOSING CURVE

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

Date: 10/12/09

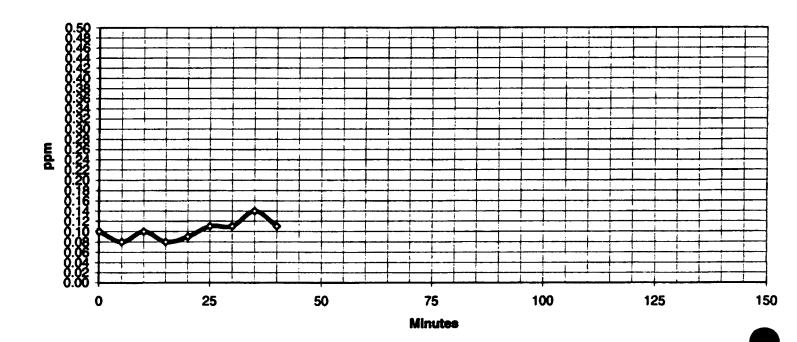
Analyzed by: J. D.

Unit: 1

Time: 11:49

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-1	U-2	
10/19/09	34	35	
10/20/09	30	31	
10/21/09	33_	33	
10/22/09	32	33	
10/23/09	30	30	
10/24/09	35	30	
10/25/09	32	32	

HALOGEN DOSING CURVE

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

Date: 10/19/09

Analyzed by: T. M.

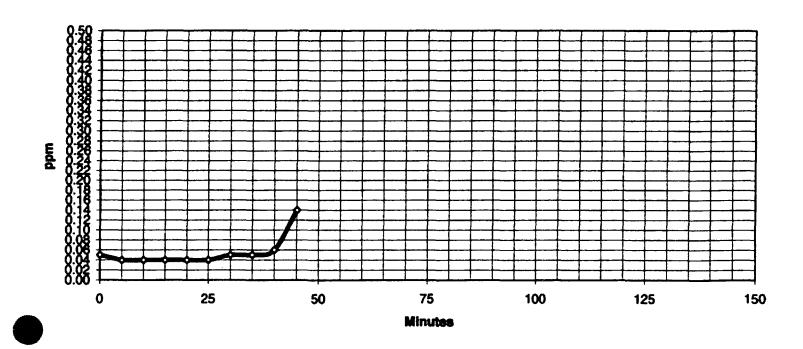
Unit: 2

Time: 10:58

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

HALOGEN DOSING CURVE

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

Date: 10/26/09

Analyzed by: J. W.

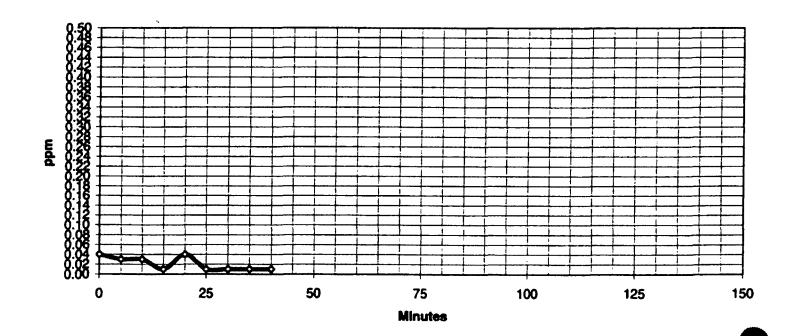
Unit: 1

Time: 10:45

Reviewed by: D. M.

Note:

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



300

www.exeloncorp.com

Exelon..

Nuclear

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

December 17, 2009

LTR: BYRON 2009-0133

File: 2.09.0411 1.10.0101

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

Subject: Byron Station Monthly Discharge Monitoring Report

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

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

Respectfully,

Bradley J. Adams Plant Manager

Byron Nuclear Generating Station

BJA/ZC/sdk

Attachments

POLLUTA						
DISCHA	RGE M	ONITOF	NAM R	FPORT	(DMD)	
			-	- 9111	fanance of	

OCR0501 MAJOR (8UBR 01)

PERMITTEE	NAME/ADDRESS
NAME	Exelon Generation Co., L
ADDRESS	4300 Winfield Road

FACILITY

Warrenville, IL 60655

LOCATION

IL0048313	A01 0
PERMIT NUMBER	DISCHARGE NUMBER

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

						M	ONITO	RING	PERK	00	1911990	11119230000		
Byron Nuclear Power Station		YE	AR	MO	HTM	D	NY		YE	AR	MO	нти	D	AY
4450 North German Church Road	From:	0	9	1	1	0	1	To:	0	9	1	1	3	0
Byron, IL 61010		/c			-					-				

*** NO DISCHARGE

PARAMETER		QUA	NTITY OR LOADIN	G		QUANTITY OR CON				NO.	before completing FREQUENCY	SAMPLE
FARVMETCH		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMU	M	UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	_	0.6	0.6		(19)	0	286	EC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT	4	Alta S	LBS/DY		15.0 30 DAY AVG	30.0 DAILY 86	AX	MG/L		MORTH	COMP-8
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			(28)					(19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLIREMENT			LBS/DY		0.1 30 DAY AVG	DALYM	esc	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT			(28)					(19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT		-	LBS/DY		1.0 30 DAY AVG	2.0 DAILY M		MG/L		DALY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			(26)	× 		38-38-3		(19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		1	LBS/DY		0.5 30 DAY AVG	DALYM	P4031500000000000000000000000000000000000	MG/L		DARY	GRAS
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT			(26)					(19)		500	40 × 5 000 000 000
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		4	LBS/DY		1.0 30 DAY AMG	1.0 DARLY MA	A.Y	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT			(26)	1				(19)		500	
01061 1 0 0 EFFLUENT GROSS VALUE	PERMET REQUIREMENT			LBS/DY		0.2 30 DAY AMG	DALY M		MG/L		DAILY	GRAB
NICKEL, TOTAL (AS NI)	SAMPLE MEASUREMENT			(26)	-				(19)		500	
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECMIREMENT	-		LBS/DY	10	1.0 30 DAY AVG	20 DALYM		MG/L		DAILY	GRAS
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of it direction or supervision in	by that this documen	and all attachments v	rere prepared und	fer my	2101	1/		PHONE		DATE	
Bradley J. Adams	properly gather and evalu- who manage the system, information submitted is, t	te the information suf or those persons dire	omitted. Based on my	inquiry of the pers	on or persons	SIGNATURE OF PRI	WYOLE	815	406-3700	09	12	17
Plant Manager TYPED OR PRINTED	aware that there are sign! fine and imprisionment for	ficant penalties for su	moute and belief, true, brilling false informati	ion, including the	possibility of	EXECUTIVE OFFICE	ER OR	AREA	NUMBER	YEAR	MONTH	DAY

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

EPA Form 3320-1 (Rev 3/99)

SD

PAGE 1 OF 2

							MINATION SYST	EM (NPDES)				
DEDMITTEE MAN	****	_		Di	ISCHARGE	MONITORING I	REPORT (DMR)				OCR0501	
PERMITTEE NAME	ME/ADDHES: Bion Generati								MAJOR			
	00 Winfield R			The same of the sa	048313		A01 0		(SUBR 01)			
	menville, IL 6			PERMI	TNUMBER		DISCHARGE NUI	MBER	F-FINAL			
					N	ONITORING PERI	<u> </u>				REGENERATE (0	01A)
FACILITY Byn	on Nuclear P	ower Station		YEAR M			EAR MONTH	DAY	EFFLUENT	r		
	50 North Gerr on, IL 61010	nan Church Road	From:	The same of the sa	1 0	1 To: 0	9 1 1	3 0	••	· NO DE	BCHARGE]
			QUA	NTITY OR LOAD!	ya -		QUANTITY OR CON		E: Read inst		before completing	this form
PARAME	TER	\sim	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	T	NO.	OF	SAMP
ZINC, TOTAL		SAMPLE			+		VACUAGE	MACAMUM	UNITS		ANALYSIS	
(AS ZN)	_	MEASUREMENT	r serveninas		(26)				(19)	1	500	
01092 1 0 EFFLUENT GRO	SS VALUE	PERMIT RECUIREMENT			LBS/DY		1.0 30 DAY AVG	2.0 DARY MAX	MGAL		DALLY	GRA
FLOW, IN CONDI THRU TREATME	NT PLANT	8AMPLE MEASUREMENT	0.022	0.106	(03)					0	135	CN
50050 1 0 EFFLUENT GRO		PERMIT RECAMPLEMENT	REPORT 30 DAY AVG	DAILY MAX	MGD	-	-		1		DALY	CONT
		SAMPLE MEASUREMENT				rorenege le continue de la continue				4.9		
		PERMIT REQUIREMENT										
		SAMPLE MEASUREMENT										145
		PERMIT RECUIREMENT									7	
		SAMPLE MEASUREMENT									1 4 11 4	
		PERMIT REQUIREMENT										
0100042271101505 14 /1/2017	over the Complete	SAMPLE MEASUREMENT										
		PERMIT RECURRENCENT										
		SAMPLE MEASUREMENT						A				
Control Control		PERMIT REQUIREMENT							1			

NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my PRINCIPAL EXECUTIVE OFFICER I comy under person of several tree document and at estachments 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 algorithm penalties for submitting false information, including the possibility of fine and imprisionment for knowing violations. Bradley J. Adams Plant Manager TYPED OR PRINTED

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

TELEPHONE DATE 815 406-3700 12 17 NUMBER YEAR MONTH DAY

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

EPA Form 3320-1 (Rev 3/99)

SD

PAGE 2 OF 2

PERM	ATTEE	NAM	E/ADC	DRESS

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 PERMIT NUMBER

	801	0
DISCH	MARGE	NUMBER

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

OCR0501

MAJOR (SUBR 01)

F - FINAL

STP EFFLUENT (FORMER 001B) EFFLUENT

 NO DISCHARGE	•••

									: Read inst	ructions.	before completing	this form
PARAMETER			ITITY OR LOADIN	G	(QUANTITY OR CON	CENTRATIC	M		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIM	UM	UNITS	EX	ANALYSIS	TYPE
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	< 0.12	< 0.12	(26)	4	< 2.0	< 2.0)	(19)	0	290	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	14.2 SD DAY AVG	DALY MAX	LBS/DY		30.0 30 DAY AVG	DALYA		MG/L		TWICE/ MONTH	COMP24
PH =	SAMPLE MEASUREMENT		4		7.36		7.48		(12)	0	290	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT				6.0 MARKER SM	-	9.0		SU		TWICE	GRAB
SOLIDS, TOTAL SUSPENDED	8AMPLE MEASUREMENT	< 0.047	0.084	(26)		< 0.8	1.1		(19)	0	290	DC
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT	14.2 30 DAY AVG	DAILY MAX	LBS/DY		30.0 30 DAY AVG	DAILY N		MG/L	多基	TWICE/ MONTH	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.006	0.008	(03)				_		0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	SEPORT AVG	REPORT DAILY MAX	MGD			-				DAILY	CONTIN
	SAMPLE MEASUREMENT											
	PERMIT										N. V.	
	SAMPLE MEASUREMENT		estimos, e e				# K					
	PERMIT RECILIREMENT	The state of the										Primary and a second
	SAMPLE MEASUREMENT											
	PERMIT RECUIREMENT						12.4					
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penelty of direction or supervision in	Accordance with a m	mean of bankania mater	the Sheet modified		Bulley !	//	TEI	EPHONE		DATE	
	properly gamer and evel- who manage the system, information submitted is.	As the information sub or those persons dire to the best of my know	mitted. Based on my i city responsible for gal stados and ballet true	inquiry of the per thering the inform	estion, the	SIGNATURE OF PRI		815	406-3700	09	12	17
Plant Manager TYPED OR PRINTED	aware that there are sign fine and imprisionment to	ficent consilies for su	bmitting false informati	on, including the		EXECUTIVE OFFICE	ER OR	AREA	NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANAT						AUTHORIZED AC	BENT	CODE	NUMBER	TEAR	MONIN	DAT
1. Flow existed thro	ugh this outfall 29 of :	30 days during the	month,	nere)								
EPA Form 3320-1 (Rev 3/99)								60				
								SD				PAGE 1 OF

DED	MITTEE	MAR	AE /A	

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

C01 0 DISCHARGE NUMBER

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

OCR0501

MAJOR (SUBR 01) F - FINAL

WWTP (FORMER 001C) EFFLUENT

···NO DISCHARGE

PARAMETER		QUAN	TITTY OR LOADIN	ß		QUANTITY OR CON	CENTRATION		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	•••••		(26)		<20	2.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY		15.0 30 DAY ANS	30.0 DAILY MAX	MG/L		WEERLY	COMP24
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT		*******	(26)				(19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY	-	Q.1 30 DAY ANG	0.2 DAILY MAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	8AMPLE MEASUREMENT	-		(28)	-			(19)		500	
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		1.0 30 DAY ANG	2.0 DAILY MAX	MGAL		DAILY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			(26)	(2,77,77,8)			(19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT			LBS/DY		30 DAY ANG	DARLY MAX	MG/L		DAILY	GRAB
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT			(26)				(19)		500	
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT		The state of the s	LBS/DY		1.0 30 DAY ANG	1.0 DAILY MAX	MG/L		DAILY	GRAB
LEAD, TOTAL (AS PB)	8AMPLE MEASUREMENT	· To proje t		(26)				(19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY	-	0.2 30 DAY AWG	DAILY MAX	MG/L	11.00	DAILY	GRAB
NICKEL, TOTAL (AS NI)	SAMPLE MEASUREMENT		19 19 19 (19 (19 (19 (19 (19 (19 (19 (19 (19 ((26)				(19)		500	
01067 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY		1.0 30 DAY AWS	2.0 DAILY MAX	MG/L		DAILY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of it direction or supervision in	accordance with a m	atem designed to see	so that mailted	nomonnel	11/1		ELEPHONE	9	DATE	
Bradley J. Adams	properly gather and evalu- who manage the system, information submitted is, t	te the information sub or those persons dire o the best of my knor	strikted. Based on my incide responsible for gall status and belief true.	inquiry of the per thering the inform	tion or persons	SIGNATURE OF PRE		6 406-3700	09	12	17
Plant Manager TYPED OR PRINTED COMMENTS AND EXPLANAT	laware that there are sign! fine and imprisionment for	licant penalties for su knowing violations.	bmitting false informati	ion, including the	possibility of	EXECUTIVE OFFICE AUTHORIZED AS	ER OR AR	INUMBER	YEAR	MONTH	DAY

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

EPA Form 3320-1 (Rev 3/99)

SD

PAGE 1 OF 2

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DEDI	ATTE	NAME/ADDRESS	11

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

DISCHARGE MONITORING REPORT (DMR)

IL0048313 PERMIT NUMBER

C01 0 DISCHARGE NUMBER

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

MAJOR (SUBR 01) F-FINAL

WWTP (FORMER 001C)

EFFLUENT

• • •	NO	DISCHARGE	
		PACH MALLOW	

ENT	AVERAGE	MAXIMUM	UNITS (26)	MINIMUM	AVERAGE	MAXIM	M	UNITS (19)	EX	OF ANALYSIS 500	TYPE
ENT			1	****				(19)		500	
ent		1000								L	I
- XX			LBS/DY	Bullian SK	1.0 30 DAY AMS	2.0 DAILY M	STATE OF THE PARTY	MG/L		DAILY	GRAB
ENT			(26)	(3.2	4.7		(19)	0	240	GR
BA	-		LBS/DY		15.0 30.0ev AM3	20.0		MG/L		WEEKLY	GRAB
	0.023	0.041	(03)		SOURT ALG				0	135	TM
	REPORT 30 DAY AMB	DAILY MACK	MGD			1			12.5	DAILY	TOTAL
											HER STATES
ENT			ē.			2 7	•				
										T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
						0	::				vitorija soci obainijaji ii
											1741
Maion in	accordance with a si	ese of benefiteb metav	tree that or willed	namenana /	3 10.1	11.	TEL	EPHONE	X 2	DATE	
system, ditted is, to	or those persons dire to the best of my know	icily responsible for ga electos and belief, trus	shering the inform	netion, the	SIGNATURE OF PRI	NCIPLE	815	406-3700	09	12	17
ament for	rienowing violations.	Ammorra sense promise	lian, including the	possibility of	AUTHORIZED AC		AREA	NUMBER	YEAR	MONTH	DAY
	ervision in and evalus e system, mitted is, t e are signil	MENT 0.023 TT REPORT MENT 30 DAY AND E MENT T MENT MEN	MENT 0.023 0.041 T REPORT REPORT DAILY MAD. E MENT IT	MENT 0.023 0.041 (03) TO REPORT REPORT MGD TO SO DAY AND DARLY MAX MGD JE MENT TO MENT TO MENT JE MENT J	MENT 0.023 0.041 (03)	MENT 0.023 0.041 (03)	MENT 0.023 0.041 (03)	MENT 0.023 0.041 (03)	MENT 0.023 0.041 (03)	MENT 0.023 0.041 (03)	MENT 0.023 0.041 (03)

PERM	ITTEE	MAR	AE/	100	DECC

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	_

D01 0 DISCHARGE NUMBER

					M	ONITO	DRING	PERK	00				
	YE	EAR MONTH DAY				AY		YE	AR	MO	нти	D	AY
From:	0	9	1	1	0	1	To:	0	9	1	1	3	0

OCR0501

MAJOR (SUBR 01) F - FINAL

RADWASTE TREATMENT (FORMER 001D) **EFFLUENT**

""NO DISCHARGE

PARAMETER		QUA	NTITY OR LOADIN	G		QU	ANTITY OR CON	CENTRAT		- Troop stop	NO.	FREQUENCY	SAMPLE
PANAMETER		AVERAGE	MAXIMUM	UNITS	MINIMUI		AVERAGE	MAXIB		UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL SUSPENDED	8AMPLE MEASUREMENT		(1)	(26)	-		<0.5	40.		(19)	0	240	СР
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT		Walter Car	LBS/DY	-		15.0 30 DAY AWG	DARLY	The second second	MG/L		WEEKLY	COMPOS
OIL AND GREASE	SAMPLE MEASUREMENT			(26)			<1.4	<1.		(19)	0	240	GR
3582 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-		LBS/DY	1		16.0 30 DAY AVG	DAELY		MG/L		MEEKLY	GRAS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.022	0.023	(03)							0	136	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUPIEMENT	REPORT 30 DAY AND	REPORT DAILY MADE	MGD	-			-		-		DALY	CONTIN
	SAMPLE MEASUREMENT												
anna ann an a	PERMIT RECILIREMENT												
	SAMPLE MEASUREMENT	€											
	PERMIT REQUIREMENT												
	8AMPLE MEASUREMENT												
evo:	PERMIT RECILIREMENT		第 1444		Election 1		10000000000000000000000000000000000000						
entilise of the till of the english	SAMPLE MEASUREMENT												
	PERMIT RECILIREMENT			gr.		2 2							
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penelty of a direction or supervision in	accordance with a e	mean of boardead making	on that a suffici	namenad	B	Made	11.	TEL	EPHONE		DATE	
Bradley J. Adams	properly gather and evaluation manage the system, information submitted is, t	te the information suf or these persons div	emitted. Based on my i	nautry of the per	mean or persons	•	NATURE OF PRI		815	406-3700	09	12	17
Plant Manager TYPED OR PRINTED	aware that there are signifine and imprisionment for	licard cenallies for su	containg take informed	on, including the	possibility of	EX	ECUTIVE OFFIC	ER OR	AREA	NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANAT		The second secon					WTHORIZED AC	3ENT	CODE	NOMBER	IEAN	MONTH	DAT
1. Flow existed thro	ough this outfall 3 of 30	days during the	month.				± ₩						
EPA Form 3320-1 (Rev 3/99)									8D				

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

Byron, IL 61010

DISCHARGE MONITORING REPORT (DMR)

DAY

IL0048313 PERMIT NUMBER

MONTH

1

YEAR

0 9

E01 0 DISCHARGE NUMBER

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

MAJOR (SUBR 01)

F - FINAL

STORMWATER (FORMER 001E) STORMWATER

*** NO DISCHARGE

PARAMETER		QUAR	NTTTY OR LOADIN	G		QUANTITY OR CON	CENTRATIO		NO.	FREQUENCY	SAMPLE
/AVAILIEN		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMI	M UNITS	EX	OF ANALYSIS	TYPE
PH	SAMPLE MEASUREMENT	***************************************		_				(12)		500	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-	6.0		9.0 MAXEM	SU		SEE	GRAS
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	12			(19)		500	
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT		1	LBS/DY		15.0 30 DAY AVG	DARLYM	MG/L		SEE	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			(26)	THE SECOND			(19)		500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/OY		0.1 30 DAY AWS	DAILY M	MG/L		DAILY	GRAS
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 DARYM	MGAL		DALY	GRAS
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT		(444	(26)	*******			(19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY	-	0.5 30 DAY AVG	1.0 DAILY M	MG/L		DALLY	GRAS
IRON, TOTAL (AS FE)	SAMPLE MEASUREMENT			(26)				(19)		500	
01046 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		1.0 30 DAY AVG	DAILY M	MG/L		DAILY	GRAS
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT			(26)			*	(19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERIMIT REQUIREMENT	1		LB8/DY	1	0.2 30 DAY AVG	B.4 DAILYM	MG/L		DARY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of it direction or supervision in	accordance with a m	spec of becomises meta-	on that maillest a		0 111	11	TELEPHONE		DATE	
	properly gamer and eveal who manage the system, information submitted is, t	te the information aut or those persons dire o the best of my know	omitted. Based on my only responsible for gas sinden and helial true	inquiry of the pers thering the inform	etion, the	SIGNATURE OF PRI	NCIPLE	815 406-3700	09	12	17
Plant Manager TYPED OR PRINTED	aware that there are signifitne and imprisionsment for	icent penelties for au	bmitting false informat	ion, including the	possibility of	EXECUTIVE OFFICE AUTHORIZED AG	ER OR	AREA NUMBER	YEAR	MONTH	DAY

- 1. No Turbine building wastewater was discharged to the Stormwater Flunoff 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 3 of 30 days during the month.

SD

PAGE 1 OF 2

EPA Form 3320-1 (Rev 3/99)

PERMITTEE NAME/ADDR	

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

Warrenville, IL 60655

FACILITY

Byron Nuclear Power Station LOCATION 4460 North German Church Road

Byron, IL 61010

DIOUIDATES INC	MI CUING UE
IL0048313	
PERMIT NUMBER	

E01 0 DISCHARGE NUMBER

l					М	ONITO	DRING I	PERK	00	V. 00 PC			
	YE	AR	MO	NTH	DAY			YE	AR	MO	NTH	DAY	
From:	0	9	1	1	0	1	To:	0	9	1	1	3	0

OCR0501

ROLAM (SUBR 01) F-FINAL

STORMWATER (FORMER 001E) STORMWATER

*** NO DISCHARGE

PARAMETER		QUAR	ITITY OR LOADIN	G		DUANTITY OR CON	CENTRATION			before completing	
1	\nearrow	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX	OF ANALYSIS	SAMPLE
	SAMPLE MEASUREMENT			(26)				(19)		500	
067 1 0 0 FLUENT GROSS VALUE	RECUREMENT		A street h	LBS/DY		1.0 39 DAY AWG	2.0 DABLY MAX	MG/L		DALLY	GRAS
	SAMPLE MEASUREMENT			(28)				(19)		500	
092 1 0 0 FLUENT GROSS VALUE	PERMIT			LBS/DY		1.0 36 DAY ANG	2.0 DAR Y MAX	MG/L		DAILY	GRAS
AND GREASE	8AMPLE MEASUREMENT		1	(26)		< 1.5	1.6	(19)	0	290	GR
582 1 0 0 FLUENT GROSS VALUE	PERMIT REQUIREMENT	1		LBS/DY		15.0 30-DAY AWG	20,6 DASLY MAX	MG/L		TWICE	GRAS
OW, IN CONDUIT OR RU TREATMENT PLANT IN	SAMPLE MEASUREMENT	0.103	0.154	(03)					0	290	TM
060 1 0 0 FLUENT GROSS VALUE	PERMIT RECOURTEMENT	REPORT 30 DAY AVG	DAILY MAX	MGD		(1.0)	2.04			TWICE/ MCMTH	TOTALO
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT RECKLIREMENT				小学性 的						
1	SAMPLE MEASUREMENT						•				
	PERMIT RECLUPEMENT										
NAME/TITLE I O	pertify under peneity of treation or supervision in	aw that this document accordance with a se	and all attachments v	rere prepared und	ter my	ally f	11	TELEPHONE		DATE	
Bradley J. Adams wh	openy gamer and evalu- his manage the system, formation submitted is, t	te the information sub or those persons dire to the best of my imos	milited. Based on my city responsible for ga decine and belief true	inquiry of the pers thering the inform	etion, the	SIGNATURE OF PRI		15 406-3700	09	12	17
Plant Manager aw	vare that there are signil se and imprisionment for	Elicant penalties for su	bmitting false informati	ion, including the		EXECUTIVE OFFIC	ER OR	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED		10NS (Reference				AUTHORIZED AC	SENT C	NOMBER 1	TEAN	MONIN	DAT

OCR0501

	PERA	ATTEE	NAME/	ADDRESS
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NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road

EPA Form 3320-1 (Rev 3/99)

Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

IL0048313	001 0
PERMIT NUMBER	DISCHARGE NUMBER

ſ					M	ONITO	PING	PERK	X O				
	YEAR MONTH		ONTH DAY			YE	AR	MO	нти	D/	W		
From:	0	9	1	1	0	1	To:	0	9	1	1	3	0

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

*** NO DISCHARGE

MAJOR

SD

PAGE 1 OF 1

Byron, IL 61010 NOTE: Read instructions before completing this form FREQUENCY QUANTITY OR LOADING QUANTITY OR CONCENTRATION SAMPLE PARAMETER TYPE EX MAXIMUM AVERAGE UNITS MINIMALIM AVERAGE MAXIMUM UNITS **ANALYSIS** SAMPLE PH 8.60 8.73 240 GR (12) 0 MEASUREMENT 00400 1 0 0 6.0 9.0 SU WEERLY GRAB EFFLUENT GROSS VALUE MAXIDALIM COPPER, TOTAL SAMPLE (26) 0.015 (19) 240 GR (AS CU) MEASUREMENT 01042 1 0 0 PERMIT 0.071 LBS/DY WEEKLY GRAB RECUMENTANT MG/L **EFFLUENT GROSS VALUE** DAILY MAX ZINC. TOTAL RAMPLE (26) 0.101 (19) 0 240 GR (AS ZN) MEASUREMENT 01092 1 0 0 PERMIT 1.0 LBS/DY WEEKS Y GRAS MGA RECHARGMENT EFFLUENT GROSS VALUE DAILY MAX OXIDANTS, TOTAL SAMPLE (26) (19) 500 RESIDUAL MEASUREMENT 34044 1 0 0 PERMIT 0.05 LBS/DY MG/L WEEKLY GRAS EFFLUENT GROSS VALUE REDUREMENT DAILY MAX FLOW, IN CONDUIT OR SAMPLE 18.65 24.23 (03) 135 CN 0 THRU TREATMENT PLANT MEASUREMENT 50050 1 0 0 PERMIT REPORT REPORT MGD DAILY CONTRI **EFFLUENT GROSS VALUE** REQUIREMENT DRELY MAX 30 DAY AVE CHLORINE, TOTAL SAMPLE (26) 0.10 0.27 (19) 0 240 GR RESIDUAL MEASUREMENT 50060 1 0 0 PERMIT 02 0.5 LBS/DY MG/L WEBQY GRAB EFFLUENT GROSS VALUE REQUIREMENT 30 DAY AVE DAILY MAX SAMPLE HYDRAZINE (26) 500 (19) MEASUREMENT 81313 1 0 0 DAILY WHEN 0.031 LBS/DY GRAB MG/L EFFLUENT GROSS VALUE DAILY MAX DISCHARGING NAME/TITLE certify under penalty of law that this document and all attachments were prepared under my TELEPHONE DATE PRINCIPAL EXECUTIVE OFFICER rection or supervision in accordance with a system designed to assure that qualified personnel openly gather and evalute the information submitted. Based on my inquiry of the person or persons properly gazen are evenue are a security 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 take information, including the possibility of 815 406-3700 Bradley J. Adams 09 12 17 SIGNATURE OF PRINCIPLE Plant Manager EXECUTIVE OFFICER OR AREA NUMBER YEAR MONTH ne and imprisionment for knowing violations. DAY TYPED OR PRINTED **AUTHORIZED AGENT** COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) Per Special Condition 4C., the maximum allowable blowdown temperature calculation results are provided on the attachment SEE ATTACHED

DEDI	MTTEE	BIAS	-	1000	-
PERM	ATTEE	NAME		WUH	E55

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	PING	PERK	XO				
	YE	AR	MO	нти	D.	AY :		YE	AR	MO	нти	D	AY
From:	0	9	1	1	0	1	To:	0	9	1	1	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.	NO. FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
PH	SAMPLE MEASUREMENT		-	=		-		(12)			
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-	-) 	0.0 Language		9.0	su		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)				(19)			
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-	-	LBS/DY		15.9 30 DAY AVG	30.6 DAILY MAX	MGAL		SEE PERMIT	GRAB
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT		2 ((26)				(19)			
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY		O/I 30 DAY ANS	0.2 DARLY MAX	MGAL		DAILY	GRAS
CHROMIUM, TOTAL (AS CR)	8AMPLE MEASUREMENT		Santa Personal	(28)			* *	(19)			
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		1	LBS/DY	10 Acres 10	30 DAY AVG	2.0 DAILY MAX	MG/L		DAILY	GRAB
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			(26)	-			(19)			
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY		0.5 30 DAY AVS	DAILY MAX	MG/L	1	DAILY	GRAB
RON, TOTAL (AS FE)	SAMPLE MEASUREMENT	-		(26)				(19)			
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECULPREMENT	3447	The second	LBS/DY		1'D 38 DAY AVG	DAILY MAX	MG/L		DARY	GR48
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT			(26)			÷ .	(19)			1:
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		0.2 30 DAY AVG	0,4 DAILY MAX	MG/L		DALLY	GRA8
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under peneity of i direction or supervision in	law that this documen	t and all attachments t	were propered und	ter my	111		LEPHONE		DATE	
Bradley J. Adams	properly gather and evaluation manage the system. Information submitted is.	As the information sul or those persons din	bmitted. Based on my activ maconalbia for or	inquiry of the pers	on or persons	SIGNATURE OF PRI	NCIPLE 81	408-3700	09	12	17
Plant Manager	aware that there are sign	ilicant penalties for au	mough and bearl, this amoint selet gritting.	ion, including the	possibility of	EXECUTIVE OFFICE		A			
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.				AUTHORIZED AG		1 MUMMS-H	YEAR	MONTH	DAY

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

- 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

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMI	TEE	NA	ME/A	DDE	RESS

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)

IL0048313 PERMIT NUMBER

002 0 DISCHARGE NUMBER

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

MAJOR (SUBR 01)

F - FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

NOTE: Read instructions before completing this form

""NO DISCHARGE X

PARAMETER		QUANTITY OR LOADING QUANTITY OR CONCENTRATION			CENTRATION	TRATION		FREQUENCY	NCY SAMPLE		
33.		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
NICKEL, TOTAL AS NI) 21067 1 0 0	SAMPLE MEASUREMENT			(26)				(19)			
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		1.0 30 DAY AVG	DAILY MA	MGAL		DARY	GRAB
ZINC, TOTAL AS ZN)	SAMPLE MEASUREMENT			(26)				(19)			
21092 1 0 0 EFFLUENT GROSS VALUE	PERMIT		2 <u>2000</u>	LBS/DY		30 DAY AVG	DAILY MA	MG/L		DALY	GRAS
OIL AND GREASE	SAMPLE MEASUREMENT			(26)				(19)			
03582 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY		15.0 36 DAY AVG	20-0 DAILY MA	MG/L		TWICE	GRAS
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)						, modiji	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT	REPORT 30 DAY AVE	PREPORT DARLY MAX	MGD		-		M		TWICE/	TOTALE
	SAMPLE MEASUREMENT			1998 Transport Street Constitution						SCAIN	
	PERMIT RECLUREMENT								17 0		
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	RAMPLE MEASUREMENT	= = ==									
	PERMIT RECLUREMENT		A STATE								
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penelty of I direction or supervision in	Accordance with a e	waters dealersed to see	on that a william		Bull 1	11	TELEPHONE		DATE	
Bradley J. Adams Plant Manager	properly gather and evaluate who manage the system, information submitted is, aware that there are signi	or those persons din to the best of my land	actly responsible for gar windon and belief the	thering the inform	etion, the	SIGNATURE OF PRI	NCIPLE	406-3700	09	12	17
TYPED OR PRINTED	fine and imprisionment to	r knowing violations.	Comment rates recurred	our avoraged are	possibility of	AUTHORIZED AC		REA NUMBER	YEAR	MONTH	DAY
COMMENTS AND EXPLANAT	ION OF ANY VIOLAT	NONS (Reference	ell attachments (here)		No IVO I LEED A		○○○			
EPA Form 3320-1 (Rev 3/99)								0			
			*					<u> </u>			PAGE 2 OF

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

For Exelon Byron Station Permit IL0048313 November 2009

BLOWDOWN TEMPERATURE MONITORING:

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

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

HYDRAZINE MONITORING:

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

TOTAL QUANTITY DISCHARGED:

N/A

TOTAL DURATION OF DISCHARGE:

N/A

ATTACHMENT TO COOLING SYSTEM BLOWDOWN LINE (Outfall 001) DISCHARGE MONITORING REPORT (Page 2)

For Exelon Byron Station Permit IL0048313 November 2009

COMMENTS:

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

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

HALOGEN DOSING CURVE

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

Date: 11/02/09

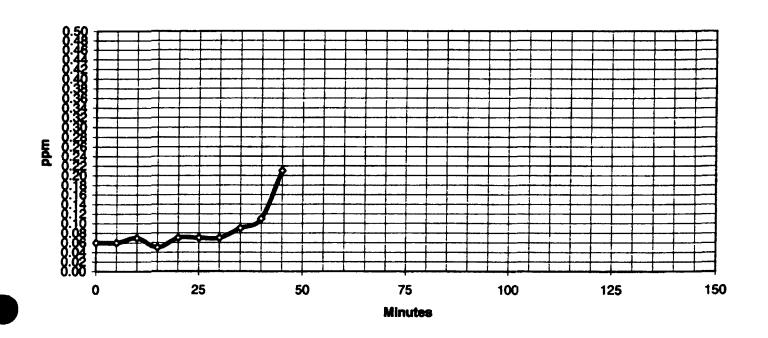
Analyzed by: G.S.

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

HALOGEN DOSING CURVE

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

Date: 11/09/09

Analyzed by: D. C. A.

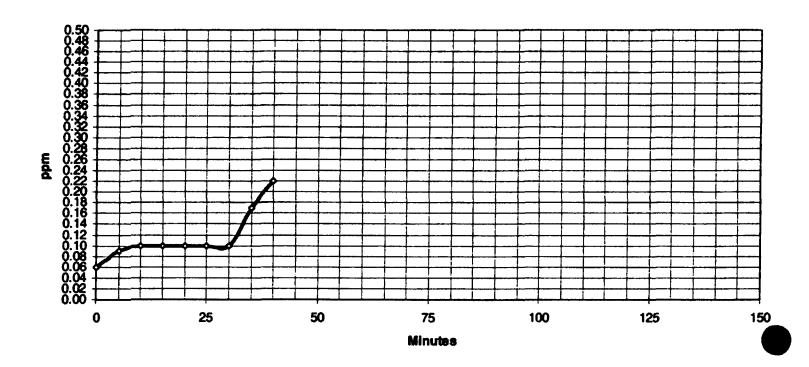
Unit: I

Time: 12:20

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-1	<u>U-2</u>			
11/16/09	25	25			
11/17/09	25	25			
11/18/09	21	17			
11/19/09	18	18			
11/20/09	18	18			
11/21/09	18	18			
11/22/09	20	19			

HALOGEN DOSING CURVE

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

Date: 11/18/09

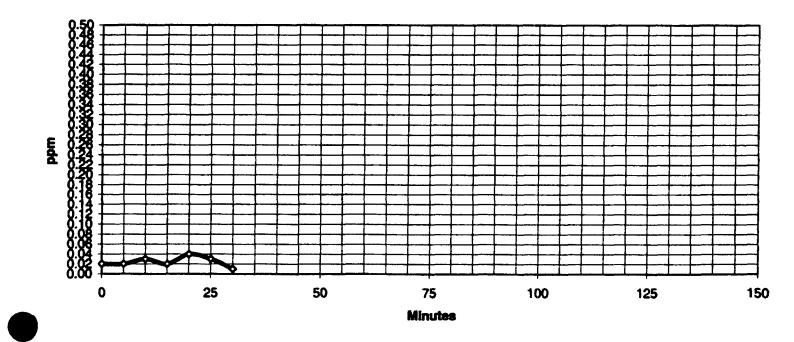
Analyzed by: J.W.

Unit: 2

Time: 10:28

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-I	U-2		
11/23/09	28	25		
11/24/09	27	24		
11/25/09	17	17		
11/26/09	16	16		
11/27/09	17	17		
11/28/09	25	25		
11/29/09	25	25		
11/30/09	20	20		

HALOGEN DOSING CURVE

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

Date: 11/23/09

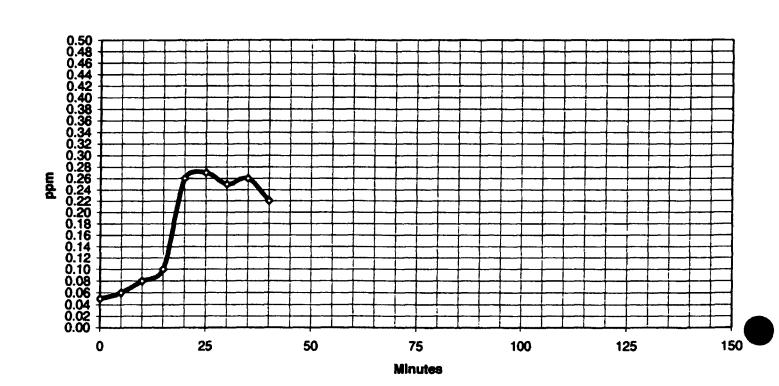
Analyzed by: M. K.

Unit: 1

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



3.Cox

Exelon.

Nuclear

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

January 21, 2010

LTR: BYRON 2010-0011

File: 2.09.0411 1.10.0101

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

Subject: Byron Station Monthly Discharge Monitoring Report

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 December 1, 2009 through December 31, 2009.

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

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

Respectfully,

Daniel J. Enright

Site Vice President

Byron Nuclear Generating Station

DJE/ZC/sdk

Attachments

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

	DISCHARGE MONITORING R
ERMITTEE NAME/ADDRESS	

Exelon Generation Co., LLC IL0048313 ADDRESS 4300 Winfield Road PERMIT NUMBER

A01 0 DISCHARGE NUMBER MAJOR (SUBR 01) F-FINAL **DEMINERALIZER REGENERATE (001A)** EFFLUENT

FACILITY

NAME

Byron Nuclear Power Station LOCATION 4450 North German Church Road

Byron, IL 61010

Warrenville, IL 60555

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

*** NO DISCHARGE

OCR0501

PARAMETER		QUA	TITTY OR LOADIN	IG .		QUANTITY OR CON	CENTRATIO	N.	NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMU	M UNITS	EX	OF ANALYSIS	TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)		< 0.5	< 0.5	(19)	0	286	EC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT PEGLIREMENT		100	LBS/DY		15.0 30 DAY AVG	DALY M	MG/L		ONCE/ MONTH	COMP-8
HROMIUM, HEXAVALENT AS CR)	SAMPLE MEASUREMENT			(26)				(19)		500	
1032 1 0 0 FFLUENT GROSS VALUE	PERMIT		-	LBS/DY		0.1 39 DAY AVS	DARY M	MG/L	18	DARLY	GRAB
HROMIUM, TOTAL AS CR)	SAMPLE MEASUREMENT		 	(28)				(19)		500	
1034 1 0 0 FFLUENT GROSS VALUE	PERMIT RECAUREMENT	1		LBS/DY		1.0 30 DAY AMG	2.0 DAILY M	MG/L		DAILY	GRAS
XOPPER, TOTAL AS CU)	SAMPLE MEASUREMENT			(26)				(19)		500	
21042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECURREMENT			LBS/DY		0.5 30 DAY ANG	DAR Y M	MG/L		DARLY	GRAB
RON, TOTAL AS FE)	SAMPLE MEASUREMENT			(26)	All marries and the second			(19)		500	
11046 1 0 0 EFFLUENT GROSS VALUE	PERMIT	-		LBS/DY		1.0 30 DAY AVG	DAILY NA	MG/L		DAILY	GRAR
EAD, TOTAL AS PB)	SAMPLE MEASUREMENT			(26)	-			(19)		500	
01051 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-		LBS/DY	1	0.2 30 DAY AVE	DARYM	w MG/L		DAILY	GRAB
IICKEL, TOTAL AS NI)	SAMPLE MEASUREMENT			(26)				(19)		500	
11067 1 0 0 EFFLUENT GROSS VALUE	PERMET REQUIREMENT			LBS/DY		1.0 30 DAY AVG	2.0 DARLY M	MG/L		DAILY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of Is direction or supervision in	accordance with a m	mean of bacolooph mades	on that multiple -		15 -		TELEPHONE		DATE	
Daniel J. Enright	who manage the system, information submitted is, t	to the information sub or those persons dire o the best of my know	milited. Based on my city responsible for ga dedos and ballet tous	inquiry of the pers thering the inform	on or persons	RIGINITURE OF PRI	NCIPLE	815 406-3600	10	01	21
Site Vice President TYPED OR PRINTED	aware that there are signifine and imprisionment for	scent penelties for au	bmitting false informati	ion, including the	posaibility of	EXECUTIVE OFFICE		AREA NUMBER	YEAR	MONTH	DAY
OMMENTS AND EXPLANATI 1. There was no die 2. Flow existed 30 o	ION OF ANY VIOLATI charge of processed in if 31 days during this in	steam generator o	all attachments i hemical cleaning t	here) waste water du	ring this month.	AUTHORIZED AC	SENT	CODE			
PA Form 3320-1 (Rev 3/99)											

				NA	IIIONAL		NSCHAR									(NPDES)				
PERMITTEE	NAME/ADDRES	9				•	NOUNAN	WE I		Onu	- C	IEPU	se i (r	meri)					OCR0501	
NAME	Exelon General	ion Co., LLC		F		_	048313							01 0	-		MAJOR (SUBR 01)	1		
	4300 Winfield R Warrenville, IL 6			L	Pt	FM	IT NUMBE	R				DIS	CHAR	GE NI	UMB	ER	F-FINAL			
	TVAITOTIVING, IL.	N030		Г				M	ONITO	RING	DED	00							REGENERATE (O	01A)
FACILITY	Byron Nuclear F	ower Station		H	YEAR	N	HTMON		AY			EAR	L	нтис	Т	DAY	EFFLUENT			
LOCATION	4450 North Gen	man Church Road	From:	-	0 9	1	2	0	1	To:	0	THE REAL PROPERTY.	1	1 2	_	3 1	••	· NO DE	SCHARGE] • • •
	Byron, IL 61010							11 11 194 1444 14										and and		•
		K -							oteles i cityeste							NOT	E: Read inst	ructions	before completing	this form
PAR	AMETER		QUA	NTT	TYORLO	ADI	ING				(QUAN	MY 0	A CO	NCE	INTRATION		NO.	FREQUENCY	SAMPLE
			AVERAGE		MAXIM	М	UNIT	8	M	INIMU	M	1	VERA	GE	Т	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
ZINC, TOTAL (AS ZN)		SAMPLE MEASUREMENT		Γ	(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	-	(20	9)			-	1			T		(19)		500	
EFFLUENT G	0 0 ROSS VALUE	PERMIT			4.53		LB8/	DY				30	1.0 DAY			2.0 DALY MAX	MG/L		DAILY	GRAB
	MENT PLANT	SAMPLE MEASUREMENT	0.025	Γ	0.106		(00))	-		-			-	T	•		0	135	CN
50050 1 EFFLUENT G	0 0 ROSS VALUE	PERMIT RECLUREMENT	REPORT 30 DAY ASES		PEPOP		MG	0					6.16		T				DARLY	CONTIN
		SAMPLE MEASUREMENT		Γ								T			T					
		PERMIT											"				1			
		SAMPLE MEASUREMENT		Г								T			T		1			

m PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE I certify under penalty of itsw 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 evalute 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 the area impressionment for increasing violations. PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE Daniel J. Enright 815 406-3600 10 01 21 SIGNATURE OF PRINCIPLE Site Vice President EXECUTIVE OFFICER OR fine and imprisionment for knowing violations. NUMBER YEAR MONTH DAY TYPED OR PRINTED **AUTHORIZED AGENT** COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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

OCB0501

SD

PAGE LOF 1

NAME	NAME/ADDRES	The							MAJOR			
ADDRESS	Exelon Generat 4300 Winfield R			The second secon	48313		B01 0		(SUBR 01))		
7-0011-00	Warrenville, IL			PERMIT	MUMBER		DISCHARGE NU	MBER	F - FINAL			
					M	ONITORING PER	100				ORMER 001B)	
FACILITY	Byron Nuclear F			YEAR MC	NTH DA		EAR MONTH	DAY	EFFLUEN	I.		
LOCATION		man Church Road	From:	0 9 1	2 0	1 To: 0		3 1		* NO DE	CHARGE]
	Byron, IL 61010);										3
			O W	NTITY OR LOADIN	_α Τ				NOTE: Read ins	ructions !	before completing	this form
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BOD, 5-DAY		SAMPLE	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUI	UNITS	EX	ANALYSIS	TYPE
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	ECUTIVE OFFICER	I certify under peneity of i	aw that this document	and all attachments w	ere prepared und	er my	1 6 4	T	TELEPHONE			
		direction or supervision in properly gather and evalu					XX2) L	TELEPTIONE		DATE	
	J. Enright	information submitted is.	or those persons dire	city responsible for gat	hering the informs	tion, the	IGNATURE OF PR		815 406-3600	10	01	21
The Person of th	e President OR PREMED	aware that there are signi fine and imprisionment fo	DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	brnitting false informatio	on, including the p		EXECUTIVE OFFICE	H	REA	\vdash		
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EPA Form 3320-1 (Rev 3/99)

NATIONAL POLITIANT DISCHARGE ELIMINATION SYSTEM (NEDEC)

PERMITTEE NAME/ADDRE	:00			DISCHARGE	MONITORI	NG REPO	RT (DMR)	*			OCR0501	
	ation Co., LLC Road			IL0048313 RMIT NUMBER		DIS	CO1 0 CHARGE NU	MBER	MAJOR (SUBR 01) F - FINAL			
alianan kanan cana					MONITORING	PERIOD			WWTP (FC)01C)	
	r Power Station erman Church Road 10	From:	YEAR 0 9	1 2 0	DAY 1 To:	YEAR 0 9	MONTH 1 2	DAY 3 1		7 2	BCHARGE]
PARAMETER		QUA	NTTTY OR LO	ADING	Ť	QUAN	TITY OR COM	NO ICENTRATION	TE: Read inst	NO.	before completing	this form
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01067 1 0 0	PERMIT	国的 (1) 10 10 10 10 10 10 10 10 10 10 10 10 10				Marie Control	10	20		English Committee		

information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant poneties for submitting false information, including the possibility of fine and imprisionment for knowing violations. TYPED OR PRINTED 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.

certify under penelty 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 evalute 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

2. Flow existed through this outfall 18 of 31 days during the month.

REQUIREMENT

EFFLUENT GROSS VALUE

NAME/TITLE

PRINCIPAL EXECUTIVE OFFICER

Daniel J. Enright

Site Vice President

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

LBS/DY

1.0

30 DAY AVG

SIGNATURE OF PRINCIPLE

EXECUTIVE OFFICER OR

AUTHORIZED AGENT

20

DAILY MAX

MG/L

NUMBER

YEAR

TELEPHONE

815 406-3600

AREA

DAILY

01

MONTH

DATE

GRAB

21

DAY

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

IL0048313

ADDRESS 4300 Winfield Road

PERMIT NUMBER

Warrenville, IL 60655

LOCATION 4450 North German Church Road Byron, IL 61010

Byron Nuclear Power Station

FACILITY

C01 0 DISCHARGE NUMBER

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

MAJOR

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

*** NO DISCHARGE ...

OCR0501

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		EPA Form 3320-1 (Rev 3/99))								SD				PAGE 2

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 F
	D # 04040

EPA Form 3320-1 (Rev 3/99)

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OCR0501

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

SD

PAGE 1 OF

PARAMETER		QUA	WITTY OR LOADIN	KG		QUANTITY OR CON	CENTRATK			NO.	FREQUENCY	SAMPLE
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Site Vice President	information submitted is, i aware that there are signi	nificent penalties for a	submitting talse informat	a, accurate, and or illon, including the	omplete. I am possibility of	EXECUTIVE OF PHI		AREA			######################################	
TYPED OR PRINTED	fine and imprisionment for	r lonowing violations.	ļ.			AUTHORIZED AG		CODE	NUMBER	YEAR	MONTH	DAY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

ATTEE		

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)

IL0048313 PERMIT NUMBER

E01 0 DISCHARGE NUMBER

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OCR0501

MAJOR (SUBR 01) F-FINAL

STORMWATER (FORMER 001E) STORMWATER

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SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(28)				(19)		500	
00630 1 0 0 EFFLUENT GROSS VALUE	PERMIT	1		LBS/DY		15:0 30 DAY AWG	30.0 DALYMAX	MG/L		SEE	GRAS
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT			(26)	7			(19)	8711111	500	
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		0.1 30 DAY AWG	02 DALYMAX	MG/L		DAILY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLE MEASUREMENT			(26)				(19)		500	::
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECOVEREMENT	-		LBS/DY		1.0 30 DAY AVS	2.0 DAILY MAX	MG/L		DAILY	GRA8
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			(26)	***********	0.10	0.27	(19)		500	
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLURENCE OF	Part Land Delivery		LBS/DY		Q.5 3D BAY AVG	DARYMAX	MG/L		DARLY	GRAB
RON, TOTAL (AS FE)	SAMPLE MEASUREMENT			(28)				(19)		500	= =
01046 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLURIEMENT			LBS/DY		1.0 30 DAY AVG	1.0 DAILY MAX	MG/L		DARY	GRAS
LEAD, TOTAL (AS PB)	8AMPLE MEASUREMENT		——	(26)			*	(19)		500	este :
01061 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		0.2 30 DAY AVG	0.4 DAILY MAX	MGAL		DALLY	GRAB
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certily under pensity of t direction or supervision in	accordance with a si	ees of bandash mets	use that medical	F I terrorea	16	, 1	TELEPHONE		DATE	::
Daniel J. Enright	properly gather and evalu- who manage the system.	te the information sub or those persons dire	smillied. Based on my othy responsible for on	inquiry of the pers	on or persons		81 81	5 406-3600	10	01	21
Site Vice President	information submitted is, t aware that there are signi	ficant penalties for su	wedge and belief, true bmitting false informat	, accurate, and co ton, including the	rnplete. I am possibility of	RIGNATURE OF PRI		=.			
TYPED OR PRINTED	line and imprisionment to	r knowing violations.	and or state and a state of the			AUTHORIZED AG		INUMBER	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. How existed	through this outial	1 of 31 days during the month.
EPA Form 3320-1 (Rev 3/		
COLUMN CONTO I TAMA CA	00)	

SD

PAGE 1 OF 2

PERMITTE	E 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		Г
 PERMIT MI MARE	R	

E01 0 DISCHARGE NUMBER

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

OCR0501

MAJOR (SUBR 01) F - FINAL STORMWATER (

STORMWATER (FORMER 001E) STORMWATER

•••

	QUA	VITTY OR LOADIN	IG .		QUANTITY OR CON			NO.	FREQUENCY	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	
SAMPLE MEASUREMENT	2 C N 11 2034-211	_	(28)	-			(19)		500	
PERMIT	-		LBS/DY		1.0 30 DAY AVG	The state of the s			DAILY	GRAB
SAMPLE MEASUREMENT			(26)				(19)		500	
PERMIT	1	A Property of the	LBS/DY		1.0 30 DAY AMG	2.0 D45 Y MAY	MG/L		DAILY	GRA8
SAMPLE MEASUREMENT		-	(26)	And the second	<1.4	< 1.4	(19)	0	290	GR
PERMIT REQUIREMENT			LBS/DY		15.0 30.06Y 69G	20.0	MG/L		TWICE/	GRAB
SAMPLE MEASUREMENT	0.005	0.006	(03)				1 =	0	290	TM
PERMIT REQUIREMENT	REPORT 30 DAY AVE	REPORT DAILY MAX	MGD			= 1-4	<u> </u>		TWICE/	TOTALIZ
SAMPLE MEASUREMENT									12023(0)	
PERMIT REQUIREMENT	A 1847 1							10 THE		200
SAMPLE MEASUREMENT									15	
PERMIT RECUMPEMENT				光 等 1						
SAMPLE MEASUREMENT				****						
PERMIT										
direction or supervision in	a construcción a en	mean decisioned to see	me that a selfice		10		ELEPHONE		DATE	
properly gather and eveals who manage the system, information submitted is, t	the the information aut , or those persons dire to the best of my knor	milited. Based on my olly responsible for ga readon and belief, true	inquiry of the pen thering the inform	etion, the	SIGNA TURE OF PRI	NCIPLE 8	5 408-3600	10	01	21
aware that there are aigh line and imprisionment to	ificiant pensities for su or knowing violations.	bmitting talse informat	lon, including the	possibility of \	AUTHORIZED AC			YEAR	MONTH	DAY
	MEASUREMENT PERMIT RECLIREMENT SAMPLE MEASUREMENT PERMIT RECLIREMENT SAMPLE MEASUREMENT PERMIT RECLIREMENT Cortily under penalty of frection or supervision is properly gather and even who manage the system.	MEASUREMENT PERMIT RECLIPEMENT SAMPLE MEASUREMENT PERMIT RECLIPEMENT SAMPLE MEASUREMENT PERMIT RECLIPEMENT SAMPLE MEASUREMENT PERMIT RECLIPEMENT RECLIPEMENT SAMPLE MEASUREMENT PERMIT RECLIPEMENT RECLIPEMENT SAMPLE MEASUREMENT PERMIT RECLIPEMENT	MEASUREMENT PERMIT RECLIPEMENT SAMPLE MEASUREMENT PERMIT RECLIPEMENT SAMPLE MEASUREMENT PERMIT RECLIPEMENT SAMPLE MEASUREMENT RECLIPEMENT SAMPLE MEASUREMENT RECLIPEMENT RECLI	MEASUREMENT	SAMPLE MEASUREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT MEASUREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT MEASUREMENT SAMPLE MEASUREMENT REPORT REPORT REPORT RECURREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT PERMIT RECURREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT PERMIT RECURREMENT RECURREMENT PERMIT RECURRE	SAMPLE MEASUREMENT	SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT MEASUREMENT LBS/DY LBS/DY 30 DAY AVG DAILY MAX LBS/DY 30 DAY AVG DAILY MAX LBS/DY 30 DAY AVG DAILY MAX LBS/DY SAMPLE MEASUREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT SAMPLE MEASUREMENT SO DAY AVG DAILY MAX MAX SAMPLE MEASUREMENT REPORT REPORT REPORT REPORT REPORT REPORT RESUREMENT PERMIT RECURREMENT SAMPLE MEASUREMENT PERMIT RECURREMENT PERMIT RE	SAMPLE MEASUREMENT SAMPLE MEASUREMENT LBS/DY 1.0 2.0 MALY MAX MGAL MEASUREMENT LBS/DY 3.0 DAY AVG DAILY MAX MGAL MAXINEMENT PERMIT RECULIREMENT REPORT RECULIREMENT PERMIT RECULIREMENT PERM	SAMPLE MEASUREMENT LBS/DY LBS/DY DAY AVG DAY AVG DAY MAX MG/L SAMPLE MEASUREMENT LBS/DY DAY AVG DAY AVG DAY MAX MG/L SAMPLE MEASUREMENT LBS/DY DAY AVG DAY AVG DAY MAX MG/L SAMPLE MEASUREMENT LBS/DY DAY AVG DAY AVG DAY AVG DAY SAMPLE MEASUREMENT LBS/DY SAMPLE MEASUREMENT LBS/DY SAMPLE MEASUREMENT DAY MG/L SAMPLE MEASUREMENT PETRIT RECURREMENT REPORT REPORT RECURREMENT PETRIT REC	BAMPLE MEASUREMENT PERMIT PERMIT PERMIT REQUIREMENT BAMPLE MEASUREMENT BAMPLE MEASUREMENT LBS/DY BAMPLE MEASUREMENT

OCR0501

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PAGE 1 OF 1

PERMITTEE NAME/ADDRE	SS						iii (Dairi)		MAJOR		OCHUBUI		
NAME Exelon General ADDRESS 4300 Winfield	Road		The same of the sa	M8313 FNUMBER		DIS	001 0 CHARGE NU	MBER	(SUBR 01)	ř			
Warrenville, IL	60655	a	Trust Street St						COOLING SYSTEM BLOWDOWN				
FACILITY Byron Nuclear Power Station				MONITORING PERIOD									
	rman Church Road	From:	YEAR M	ONTH D/	1 To:	YEAR 0 9	MONTH 1 2	DAY 3 1			SCHARGE] •••	
PARAMETER		QUAN	TITY OR LOADIN	16		QUAN	TITY OR CON	ICENTRATION	OTE: Read inst	NO.	FREQUENCY	SAMP	
- A Commercial		AVERAGE	MAXIMUM	UNITS	MINIMU	M /	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYP	
PH	SAMPLE MEASUREMENT	*******		-	8.71			8.76	(12)	0	240	GA	
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT				6.0 MOTES			9.0	su		WEEKLY	GRA	
(AS CU)	SAMPLE MEASUREMENT			(26)		-			(19)		500		
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT		-	LBS/DY				0.071 DAELY MAX	MG/L		WEERLY	GRA	
ZINC, TOTAL (AS ZN)	8AMPLE MEASUREMENT			(26)				0.03	(19)	0	240	GR	
01092 1 0 0 EFFLUENT GROSS VALUE	PERMIT			LBS/DY	-			1.0 DAILY MAX	MG/L	() ×	WEEKLY	GRA	
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT			(28)		-			(19)		500		
34044 1 0 0 EFFLUENT GROSS VALUE	PERMIT	100000		LBS/DY	H.E.			0.05 DARLYMAN	MG/L		WEELQ.Y	GRA	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.20	28.10	(03)		•				0	135	CN	
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	PEPORT DAILY MAX	MGD	1			-			DALLY	CONT	
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT			(26)			0.06	0.20	(19)	0	240	GR	
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-		LBS/DY			0.2 DAY AVG	Q.5 DAEY MAX	MG/L		WEEKLY	GRA	
HYDRAZINE	SAMPLE MEASUREMENT			(26)					(19)		500		
81313 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUSPEMENT			LBS/DY	-			0.091 DASLY MAX	MG/L		DAILY WHEN	GRA	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	Imponent or efficiences to	1 accordance with a sw	see of benchesk mets	and that or calling a	umananal I	11		: : : : : : : : : : : : : : : : : : : :	TELEPHONE	-	DATE		
Daniel J. Enright	who manage the system.	As the information sub . Or those persons rise	mitted. Based on my	inquiry of the pers	on or persons	B	TOPLE OF PRI		115 406-3600	10	01	21	
Site Vice President	information submitted is, aware that there are sign line and imprisionment to	MICENE Demolities for sud	bmitting lates informed	ion, including the	mplets. I am l cossibility of	excep	VE OFFIC	ER OR	REA NUMBER	YEAR	MONTH	54	
COMMENTS AND EXPLANA Per Special Condition 4C., the	TION OF ANY VIOLAT	RONS (Reference	all attachments ture calculation re	here) suits are provid	ed on the at		THORIZED AC	BENT C	DOE	I EAN	MONTH	DAY	

SEE ATTACHED

EPA Form 3320-1 (Rev 3/99)

DEDA	ATTEE	MARA	E/AI	200	200
FERM		PLANE.		. 32 39-9	

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road Warrenville, IL 60555

FACILITY

Byron Nuclear Power Station LOCATION 4450 North German Church Road

2. This discharge point was not used this month.

EPA Form 3320-1 (Rev 3/99)

Byron, IL 61010

IL0048313
PERMIT NUMBER

	002 0
	DISCHARGE NUMBER
W	

					M	ONITO	DRING	PERK	00				
	YE	AR	MO	NTH	D	AY		YE	AR	MONTH D		AY	
From:	0	9	1	2	0	1	1 To:	0	9	1	2	3	1

OCR0501

MAJOR (SUBR 01) F-FINAL

SD

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

*** NO DISCHARGE X ...

PAGE 1 OF 2

PARAMETER		QUAN	TITTY OR LOADIN	G		QUANTITY OR CON			NO.	before completing FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	OF ANALYSIS	TYPE
PH	SAMPLE MEASUREMENT							(12)			
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT				ACOMPANIA MARKETA		9.0 MAXWLD	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)				(19)		1411	
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECILIREMENT	-		LBS/DY		15.0 30 DAY AVG	DARY MAX	MG/L		SEE	GRAS
CHROMIUM, HEXAVALENT (AS CR)	SAMPLE MEASUREMENT		****	(26)	-			(19)			
01032 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	1		LBS/DY		0.1 30 DAY AVS	DAH YMAN	MG/L		DARY	GRAB
CHROMIUM, TOTAL (AS CR)	SAMPLÉ MEASUREMENT	(*******		(26)				(19)			
01034 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	T		LBS/DY	-	1.0 30 DAY AVG	2.8 DALY MAX	MG/L		DALY	GRA8
COPPER, TOTAL (AS CU)	SAMPLE MEASUREMENT			(26)				(.19)			
01042 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECLUREMENT			LBS/DY	-	0.5 30 DAY AVG	1.0 DALYMAN	MG/L		DAILY	GRAB
RON, TOTAL (AS FE)	SAMPLE MEASUREMENT		7	(26)				(19)			:
01045 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECHREMENT	-		LBS/DY		1.0 30 DAY AWS	1.0 DASLY MAX	MG/L		DALY	GRAB
LEAD, TOTAL (AS PB)	SAMPLE MEASUREMENT		· · · · · · · · · · · · · · · · · · ·	(26)				(19)			
01061 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		14-14	LBS/DY		0.2 30 DAY AVG	0.4 DAR Y MAX	MG/L		DAILY	GRA8
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of is direction or supervision in	accordance with a sy	mism designed to see	on that custillant a		TELEPHONE			DATE		
Daniel J. Enright	who manage the system.	e the information sub or those persons dire	mitted. Based on my i	inquiry of the pers	on or persons	SIGNATURE OF PRINCIPLE		15 406-3600	10	01	21
Site Vice President	aware that there are signif fine and imprisionment for	icant penalties for su	t of my knowledge and belief, true, accurate, and complete. I am satisfie for submitting false information, including the possibility of violations.			EXECUTIVE OFFICER OR ADEA		NUMBER	YEAR	MONTH	DAY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DEDM	ITTEE	MASAE	/ADD	DECC
				nean.

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)

IL0048313	
PERMIT NUMBER	

002 0	
 DISCHARGE NUMBER	

					M	ONITO	DRING	PERK	00				
	YE	AR	MO	MONTH DAY YEAR		AR	MONTH DAY						
From:	0	9	1	2	0	1	To:	0	9	1	2	3	1

OCR0501

MAJOR (SUBR 01)

F - FINAL

STORMWATER RUNOFF BASIN OVERFLOW STORMWATER

*** NO DISCHARGE X ***

PARAMETER		QUA	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO.	FREQUENCY	SAMPLE	
2 5 T File Contract (1971)		AVERAGE	MAXIMUM	UNITS	MINIMA	IM	AVERAGE	MAXIMI	UM	UNITS	EX	OF ANALYSIS	TYPE
AS NI)	SAMPLE MEASUREMENT	-		(26)		-	200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			(19)		AUCIO	
11067 1 0 0 EFFLUENT GROSS VALUE	PERMIT		10 mm	LBS/DY		老	30 DAY AVG	DAELY N		MG/L	7.7	DALLY	GRAB
INC, TOTAL AS ZN)	SAMPLE MEASUREMENT			(26)						(19)			
1092 1 0 0 FFLUENT GROSS VALUE	PERMIT		1	LB\$/DY			30 DAY ANG	DALY N		MG/L		DAILY	GRAS
NL AND GREASE	8AMPLE MEASUREMENT	<u> </u>		(26)		•				(19)			
3582 1 0 0 FFLUENT GROSS VALUE	PERMIT			LBS/DY			15.0 30 DAY AMS	20.8 DALY M		MG/L		TWACE	aman
LOW, IN CONDUIT OR HRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)		=		-	-			MONTH	
60050 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD			-	11				TWICE	SUATOT
	SAMPLE MEASUREMENT	# VV-0 0 mm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						::			*	МОНТН	
	PERMIT REQUIREMENT								4.3				
	SAMPLE MEASUREMENT				3 4 11 X1						:		
	PERMIT								4.1				
	SAMPLE MEASUREMENT				:: 2								
	PERMIT			#								Carried States	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I certify under penalty of a	a dibe eccemocos	ees of bonniagh makes	tradition on said one		1	10		TEL	EPHONE		DATE	
Daniel J. Enright Site Vice President	who manage the system, information submitted is,	s over, we the information extendited. Based on my inquiry of the pers- petern, or those persons directly responsible for gathering the informa- ed is, to the best of my incuried on and before the exception and on-			edion, the			NCIPLE	815	406-3600	10	01	21
TYPED OR PRINTED	aware that there are signi fine and imprisionment fo	ncers pensions for sur riotowing violations.	omitting false informat	lon, including the	possibility of	(AUTHORIZED A		AREA	NUMBER	YEAR	MONTH	DAY
OMMENTS AND EXPLANAT	10N OF ANY VIOLAT	TONS (Reference	all attachments	here)			AUTHORIZED AC	= 11	CODE				in the second se
PA Form 3320-1 (Rev 3/99)									SD				PAGE 2 OF

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

For Exelon Byron Station Permit IL0048313 December 2009

BLOWDOWN TEMPERATURE MONITORING:

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

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

HYDRAZINE MONITORING:

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

TOTAL QUANTITY DISCHARGED:

N/A

TOTAL DURATION OF DISCHARGE:

N/A

ATTACHMENT TO COOLING SYSTEM BLOWDOWN LINE (Outfall 001) DISCHARGE MONITORING REPORT (Page 2)

For Exelon Byron Station Permit IL0048313 December 2009

COMMENTS:

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

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

HALOGEN DOSING CURVE

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

Date: 12/02/09

Analyzed by: D.L.

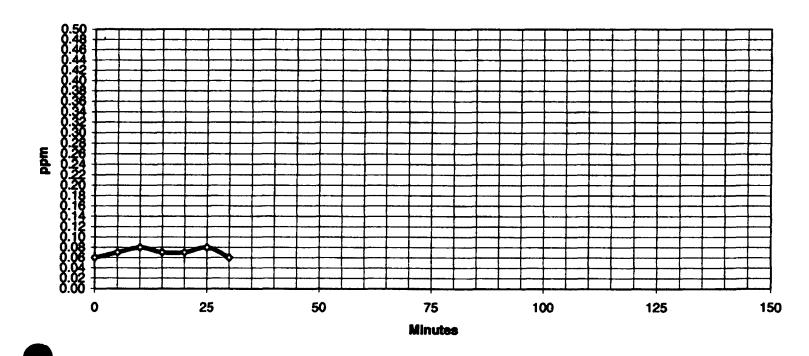
Unit: 2

Time: 11:20

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-1 U-2				
12/07/09	20	20			
12/08/09	20	20			
12/09/09	20	20			
12/10/09	20	20			
12/11/09	0	0			
12/12/09	0	0			
12/13/09	0	0			

HALOGEN DOSING CURVE

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

Date: 12/07/09

Analyzed by: G.S.

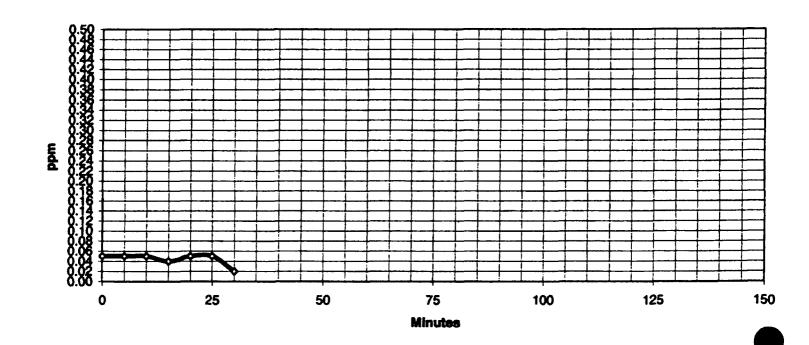
Unit: 1

Time: 12:40

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-1 U-2				
12/14/09	20	20			
12/15/09	16	20			
12/16/09	20	20			
12/17/09	20	20			
12/18/09	20	20			
12/19/09	18	18			
12/20/09	18	19			

HALOGEN DOSING CURVE

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

Date: 12/14/09

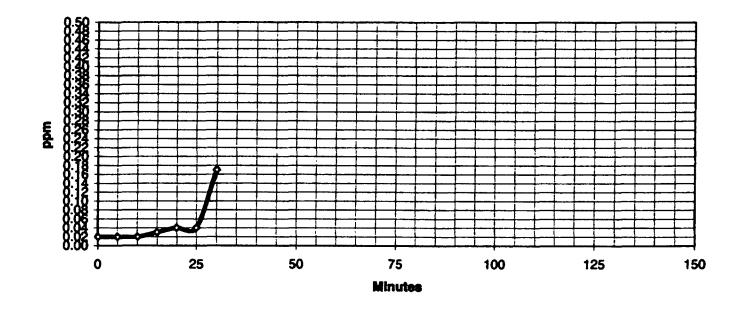
Analyzed by: E. G.

Unit: 1

Time: 11:45

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-1 U-2					
12/21/09	18	19				
12/22/09	19	19				
12/23/09	18	17				
12/24/09	18	18				
12/25/09	20	20				
12/26/09	20	20				
12/27/09	20	20				

HALOGEN DOSING CURVE

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

Date: 12/21/09

Analyzed by: J.W.

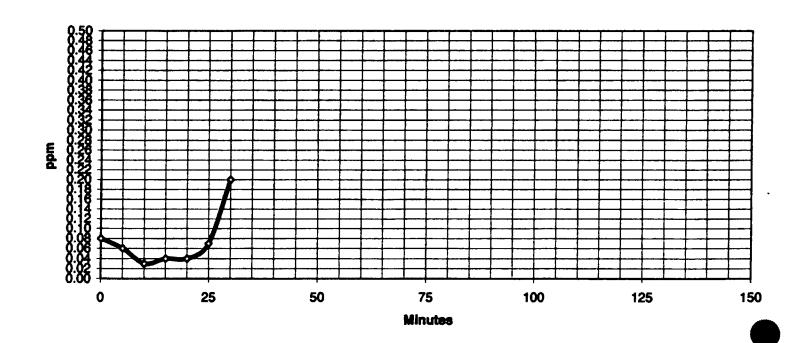
Unit: 1

Time: 13:36

Reviewed by: M. H.

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>
12/28/09	17	16
12/29/09	17	17
12/30/09	20	18
12/31/09	17	18

HALOGEN DOSING CURVE

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

Date: 12/28/09

Analyzed by: M.P.

Unit: 2

Time: 13:03

Reviewed by: D. M.

Note:

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

