Haddon, David [CEAA]

Subject:	FW: NPRI 2013 submission and calculations for WWMF
From: SWAMI Laurie -NUCLEAR Sent: Wednesday, September 17, To: Myles, Debra [CEAA]; McGee, Subject: Fw: NPRI 2013 submissio	Kelly: CNSC
Attached are the NPRI reports.	
Sent from my BlackBerry 10 smar	tphone on the Bell network.
From: MORTON Lise -NUCLEAR < Sent: Wednesday, 17 September To: SWAMI Laurie -NUCLEAR Subject: NPRI 2013 submission and	2014 6:55 PM
Please find attached the NPRI sub	omission and calculations for the WWMF for 2013.
·	
Lise Morton	
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qui sont protégés par le secret pro s'adresse exclusivement aux desti du contenu du courriel par une au	l, y compris tout fichier joint, peut contenir des renseignements qui sont confidentiels, ofessionnel ou qui ne peuvent être divulgués aux termes des lois applicable, et inataires indiqués ci-dessus. La distribution, l'examen, la diffusion ou la reproduction utre personne que les destinataires voulus sont strictement interdits. Si vous recevez n aviser l'expéditeur immédiatement par retour du courriel et supprimer le courriel

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KING Nilofar -NUCLEAR

W-CORR-07297.1-

From: i<email removed>
Sent: Friday, May 23, 2014 1:55 PM

To: KING Nilofar -NUCLEAR

Subject: INRP - Confirmation de soumission - [2013] / NPRI - Confirmation of Submission - [2013]





Confirmation de soumission

Nelly King,

Le but de ce courriel est de vous informer que la déclaration suivante a été soumise avec succès dans le Guichet unique d'Environnement Canada:

Période de déclaration: 2013

Programme: INRP

Type de déclaration: Inventaire

Nom de la compagnie: Ontario Power Generation Inc. Nom de l'installation: Western Waste Management Facility Adresse de l'installation: 177 Tie Road, Tiverton (Ontario) Date et temps de soumission: 23/05/2014 1:55:16 PM

Pour visualiser ou mettre à jour la déclaration, veuillez vous connecter au Guichet unique d'Environnement Canada (https://ec.ss.ec.gc.ca).

Confirmation of Submission

Nelly King,

The purpose of this email is to notify you that the following report has been successfully submitted into Environment Canada's Single Window reporting system:

Reporting Period: 2013

Program: NPRI

Report Type: Inventory

Company Name: Ontario Power Generation Inc. Facility Name: Western Waste Management Facility Facility location: 177 Tie Road, Tiverton (Ontario) Submitted Date and Time: 23/05/2014 1:55:16 PM

To view or update the report, please log in to Environment Canada's Single Window (https://ec.ss.ec.gc.ca).

Canada.gc.ca (http://www.canada.gc.ca/home.html)	Services (http://www.serviceca	nada.gc.ca/eng/home.shtml)
Departments (http://www.canada.gc.ca/aboutgov-aust	ujetgouv/depts/menu-eng.html)	Français

National Pollutant Release Inventory (NPRI) and Partners

Rep	* Indicates a required field, ** indicates a conditionally required f
Comp	pany Details
Name	
Ontario	Power Generation Inc.
Address	iversity Avenue, Toronto (Ontario)
700 011	iversity Avenue, Futurity
Repo	rt Details
Report S	
Submit	ted
2013	
Report T	ype
Invento	ury
Facility N	the distribution of the contraction of the contract
Wester	n Waste Management Facility
Facility A	oddress Broad, Tiverton (Ontario)
1	The manner of the second of th
Opdate C	Comments
Activi	ty Details
Applic	able Programs
Please s	elect all that apply.
Environ	iment Canada Programs
<u> </u>	NPRI - National Pollutant Release Inventory
Partner	ing Programs
Г	ON MOE TRA - Ontario Ministry of the Environment for the Toxic Reductions Act
Γ-	ON MOE Reg. 127/01 - Ontario Ministry of the Environment for the Airborne Contaminant Discharge Monitoring and Reporting Regulation
Г	NERM - Chemistry Industry Association of Canada for the National Emission Reduction Masterplan survey
г	NFPRER - National Framework for Petroleum Refinery Emission Reductions

Facility Con Select the app		son from the (trop-down m	nenu for eac	h contact				
		our month the t	3100 00001111	icha for eac	n contact.				
Technical Con Nelly King	idet.					4			
Certifying Offi	cial (or autho	orized delegat	e): *					÷,	
Lise Morton									
Company Coo	rdinator (opt	ional)							
Public Contact	(optional)			**		v v v			
Contractor Co	ntact (option	al)	· · · · · · · · · · · · · · · · · · ·				.,	i. ii	
If you are an	independent	contractor or	consultant,	please enter	your compar	ny name in the fi	ield below		
			4/3/11 1 8/1 4/1			· / /· · · · · · · · · · · · · · · · ·			
Employees	s and Acti	vities							
Employees									
Number of Em	ployees *								
175									
Activities									
If your facility list, if you sele	was engaged ect one of the	d in any of the	e following a then you mu:	ctivities, che st report dio	eck the releva ixins, furans a	int box(es), othe and hexachlorobe	erwise click "None enzene.	of the Above"	. For the second "Activities"
Activities for			r Employee	Threshold	Does Not A	oply: (check all	I that apply) *		
Activities Re Hazardous w			kins, Furans	and Hexa	cholorobenz	ene: (check al	I that apply) *		
Activities Re	levant to Re	eporting of F	Polycyclic A	romatic H	ydrocarbons	s (PAHs)			
Did the followi	ng activity ta	ke place at th	ne facility?						
Wood preserva	ation using cr	eosote: *							
No	*****								
General Fa	cility Infor	mation							
NPRI									
Is this the first	time the fac	ility is reporti	ng to the NP	RI (under c	urrent or past	ownership)? *			
Is the facility o	ontrolled by	another Cana	dian compar	ny or compa	nies? *				
Did the facility		other enviro	nmental reg	ulations or p	ermits? *				
Is the facility r	equired to re	port one or m	nore NPRI Pa	rt 4 substar	ices (Criteria	Air Contaminant	:s)? *		
No 	w								
If 'Yes' to repo Was the facility	shut down f				ar? **				
Operating So	hedule - Da	ays of the W	/eek **						
Mon	Tue	Wed	Thu	Fri	Sat	Sun			
	_								

Operating Schedule - Hours ** Usual Number of Operating Hours per day	Usual Daily Start Time (24h) (hh:mm)	
Shutdown Periods **		
To report a shutdown period, click the	"+" sign to the right side of the screen.	
Empty		
General Comments for Facility		
Comments		
·		
Verify Facility Information		
Company Information		
Company Details		
Company Legal Name		Ontario Power Generation Inc.
Business Number		878664226
		The state of the s
Mailing Address		
Delivery Mode		General Delivery
PO Box		
Rural Route Number		
Address Line 1		H9 E12 - 700 University Avenue
City *		Toronto
Province/Territory **		Ontario
Postal Code: **		M5G1X6
Country *		Canada
Facility Information		
Facility *		Western Waste Management Facility
NAICS Code *		562210
NPRI ID *		
NPRI ID		7098 (Assigned by Environment Canada)
Facility Physical Address		
Address Line 1		177 Tie Road
City		Tiverton
Province/Territory		Ontario
Postal Code		NOG2TO
Country		Canada
Additional Information		
Land Survey Description		
National Topographical Description		

Geographical Address Latitude **	44.32100
Longitude **	-81.58630
UTM Zone **	
UTM Easting **	
UTM Northing **	
Facility Contacts	
Contact Types	
Technical Contact	
First Name: *	Nelly
Last Name: *	King
Position: *	Permits and Approvals Coordinator
Telephone: *	5193616414
Ext	3054
Fax	
Email: *	<pre><email removed=""></email></pre>
	· Cellia II Tellioved
Mailing Address	
Delivery Mode	Post Office Box
РО Вох	7000
Rural Route Number	t
Address Line 1	177 Tie Road
City *	* Tiverton
Province/Territory **	Ontario
Postal Code: **	: NOG2TO
Country *	: Canada
	Canada
Certifying Official	
First Name: *	Lise
Last Name: *	Morton
Position: *	Director, L&IL Waste
Telephone: *	5193681671
Ext	
Fax	5193681642
Email: *	<pre><email removed=""></email></pre>
Mailing Address	
Mailing Address Delivery Mode	Part Office Pay
	Post Office Box

PO Box	7000
Rural Route Number	
Address Line 1	177 Tie Road
City *	· Tiverton
Province/Territory **	Ontario
Postal Code: **	NOG2TO
Country *	Canada
	Canada
Environmental Regulations or Permits	
Permits	
8047-8GLPAM	
Number or Permit Number 8047-8GLPAM	
Government Department, Agency, or Program Name Ontario Ministry of the Environment Certificate of Approval Air	
Pollution Prevention	
Pollution Prevention Plans	
Does the facility have a documented pollution prevention plan? *	
No.	
If 'Yes'	
a) Please check all that apply	The second secon
b) Did the facility update their plan in the current reporting year?	
No	
c) Does the plan address substances, energy conservation, or water conservation $\boldsymbol{\xi}$	on?
Commonts **	
Comments **	
Pollution Prevention Activities	
Did the facility complete any pollution prevention activities in the current NPRI No	reporting year?
Selecting "Yes" will initiate the reporting of the specific pollution prevention act screen.	ivities that were completed in the current reporting year on the following
Substance Details	
118-74-1, Hexachlorobenzene	
118-74-1, Hexachlorobenzene	
Substance Reporting Status	
Applicable Programs	
NPRI - Does this substance meet the criteria specified in the Canada Gazette no NPRI. * Yes	otice? Selecting "No" indicates voluntary reporting of this substance to the
Comments	

General Information about the S	ubstance			
Releases and Transfers of the S	ubstance			
Releases and Transfers of the S Was the substance released on-site? Yes				
Disposals and Off-site Transfers	for Recycling			
Was the substance disposed of (on-s	ite or off-site), or transferred for treatme	ent prior to final disposal?	·	
Is the facility required to report on d	isposals of tailings and waste rock for the	e selected reporting period) *	
Was the substance transferred off-si	te for recycling? *			
Indicate if there were On-site Releas questions below.	es, Disposals or Off-site Transfers to the	environment by choosing '	es or No from the drop-down	boxes beside the
Nature of Activities *		I I a disercis de la contra		
	manufactured, processed, or otherwise t	isea, by selecting the natu	e of such activities.	
1	THE RESERVE TO THE PROPERTY OF			
Process the Substance				
Otherwise Use of the Substance As a by-product				
On-site Releases				
Click " Edit" to enter your reportable In order to calculate totals, you mus				
Enter the values for releases to	air for the substance			
Releases to Air				
Category	Basis Of Estimate	Detail Code	Quantity (Grams)	
Stack or Point Releases	M3 - Source Testing	BQ - Below LoQ (Quantity Entered)	0.0166	
Storage or Handling Releases	NA Not Applicable		1	
Storage of Handling Releases	NA - Not Applicable			
Fugitive Releases	NA - Not Applicable		**	
Spills	NA - Not Applicable			
Other Non-point Releases	NA - Not Applicable			
Total - Releases to Air 0.0166				
Enter the values for releases to	water bodies			
Releases to Water Bodies				
Category	Basis Of Estimate	Detail Code	Quantity (Grams)	
Direct Discharges	NA - Not Applicable			
Spills	NA - Not Applicable		•	

Leaks	NA - Not Applicable		:
Total - Releases to Water Bodies			
Enter the values for releases to la	and		
Releases to Land			
Category	Basis Of Estimate	Detail Code	Quantity (Grams)
Spills	NA - Not Applicable		
Leaks	NA - Not Applicable		
Other	NA - Not Applicable		
Total - Releases to Land			
Total Quantity Released 0.0166			
Breakdown of Annual Releases			
Distribute Equally			
Quarterly Breakdown *			
Jan - Mar % 25 Total % 100	Apr - Jun % 25	Jul - Sep %	Oct - Dec % 25
Reasons for Changes in Quantition	es Released from Previous Year		
Select the applicable reason or re-			
Comments ? (On-Site Releases)			
Disposals			
Reasons for Changes in Quantiti	es Disposed from Previous Year		
Select the applicable reason or re No significant change (i.e. < 10%	asons.) or no change		
Commente? (Disposals)			
Recycling			
Reasons for Changes in Quantiti	es Recycled from Previous Year		
Select the applicable reason or re No significant change (i.e. < 10%			
Comments? (Recycling)			
NA - D/F, Dioxins and furans	s - total		
NA - D/F, Dioxins and furans - total			
Substance Reporting Status			

Applicable Programs NPRI - Does this substance meet the control ** NPRI. **	criteria specified in the Canada Gazette n	otice? Selecting "No" indica	ates voluntary reporting of this substance to the
Yes			
Comments	er e e		
General Information about the Su	bstance		
Releases and Transfers of the Su	bstance		
Releases and Transfers of the Su	bstance		
Was the substance released on-site? *	•		
Yes			
Disposals and Off-site Transfers	for Recycling		
Was the substance disposed of (on-sit	e or off-site), or transferred for treatme	nt prior to final disposal? *	
No .			
Is the facility required to report on dis	posals of tailings and waste rock for the	selected reporting period?	*
No			
Was the substance transferred off-site	e for recycling? *		
No			
Indicate if there were On-site Release questions below.	s, Disposals or Off-site Transfers to the	environment by choosing Y	es or No from the drop-down boxes beside the
Nature of Activities *			
Indicate whether the substance was n	nanufactured, processed, or otherwise u	sed, by selecting the nature	e of such activities.
Manufacture the Substance	The same of the sa		
Otherwise Use of the Substance			
As a by-product	3		
On-site Releases			
Click " Edit" to enter your reportable of In order to calculate totals, you must			
Enter the values for releases to a	ir for the substance		
Releases to Air			
Category	Basis Of Estimate	Detail Code	Quantity (g TEQ(ET))
Stack or Point Releases	M3 - Source Testing	BQ - Below LoQ (Quantity Entered)	0.0000
Storage or Handling Releases	NA - Not Applicable		· · · · · · · · · · · · · · · · · · ·
Fugitive Releases	NA - Not Applicable		· · · · · · · · · · · · · · · · · · ·
. agreer reneamed	, HA - Not Applicable		
Spills	NA - Not Applicable		
Other Non-point Releases	NA - Not Applicable		
Total - Releases to Air			

Dioxins and Furans Breakdown

Dioxins and Furans Breakdown	
Basis of Estimate for Dioxins and Furans	
Enter breakdown values for	and the second of the second o
Stack or Point Releases	
Basis Of Estimate	
M3 - Source Testing	
Detail Code	
BQ - Below LoQ (Quantity	
Entered)	

Dioxins and Furans Breakdown Substance List

CAS Number	Substance Name	Quantity (Grams)	Quantity (g TEQ(ET))
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0001	0.000001
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0000	0.00000
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.0000	0.00000
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.000	0.00000
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0000	0.0000
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0000	0.00000
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	0.0000	0.0000
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	0.0000	0.00000
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	0.0000	0.00000
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	0.0000	0.0000
3268-87-9	Octachlorodibenzo~p-dioxin	0.0001	0.000000
39001-02-0	Octachlorodibenzofuran	0.0000	0.000000
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0000	0.00000
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	0.0000	0.00000
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	0.0000	0.00000
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0000	
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	0.0000	0.00000

Total of D/F congeners (from above) (g TEQ(ET))

0.0000

Total of D/Fs (only if no information on D/F congeners) (g TEQ(ET))

Note: If no information on speciated dioxin and furan substances is available, you may report a total for dioxins and furans in the field "Total D/Fs (g TEQ (ET))", as shown above, instead of entering the quantities for the speciated substances.

For ON MOE TRA, facilities must provide information on individual dioxin and furan congeners using the best available method(s) for the facility.

Enter the values for releases to water bodies

Releases to Water Bodies

Category	Basis Of Estimate	Detail Code	Quantity (g TEQ(ET))
Direct Discharges	NA - Not Applicable	•	

			grant and the second of	
Spills	NA - Not Applicable			
Leaks	NA - Not Applicable			
Total - Releases to Water Bodies				
Enter the values for releases to la	nd			
Releases to Land				
Category	Basis Of Estimate	Detail Code	Quantity (g TEQ(ET))	
Spills	NA - Not Applicable			
Leaks	NA - Not Applicable	,		
Other	NA - Not Applicable			
Total - Releases to Land	C			
Total Quantity Released 0.0000				
Breakdown of Annual Releases				
Distribute Equally				
Quarterly Prockdown *				
Quarterly Breakdown *	Apr - Jun %	Jul - Sep %	Oct - Dec %	
25	25	·	25	
Total %		\$2000000000000000000000000000000000000		
100				
Reasons for Changes in Quantitie	es Released from Previous Year			
Select the applicable reason or rea	isons *			
No significant change (i.e. < 10%)	or no change			
Comments ? (On-Site Releases)	······································			
Disposals				
Reasons for Changes in Quantitie	es Disposed from Previous Year			
Select the applicable reason or rea				
No significant change (i.e. < 10%)	or no change			
	* *1			
	., ., ., ., ., ., ., ., ., ., ., ., ., .			
Recycling				
Reasons for Changes in Quantitie				
Select the applicable reason or real No significant change (i.e. < 10%)				
Comments? (Recycling)				
Export to PDF format with descriptions	;			
Export				
Back				

Version: 3.3.1

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TRAVEL

healthycanadians.gc.ca (http://healthycanadians.gc.ca/index-eng.php) travel.gc.ca (http://www.voyage.gc.ca/index-eng.asp)

SERVICE CANADA

servicecanada.gc.ca (http://www.servicecanada.gc.ca/eng/home.shtml)

actionplan.gc.ca (http://actionplan.gc.ca/eng/index.asp)

JOBS

Canada.gc.ca (http://www.canada.gc.ca/home.html)

jobbank.gc.ca (http://www.jobbank.gc.ca/intro-eng.aspx)

https://inrp-npri.ss.ec.gc.ca/V003/

Emissions Calculations NPRI and O Reg 127/01 Reporting

2013

0125-REP-07297.1-0500421 T(7)

Calculation of Emissions

Waste density: 100 kg/ m³ solid Ref: Operations and Maintenance experience

870kg/ m³ liquid Ref: Application for C of A - July 27, 2001

Volume of Waste Incinerated: Solid Waste 469.4 m³ Ref: Process Summary Spreadsheets

Liquid Waste 18.7 m³ Ref: Process Summary Spreadsheets

Weight of Waste Incinerated: Solid waste 469.394 m3 x 100 kg/m3 = 46940 kg

Liquid waste $18.6548 \text{ m} 3 \times 870 \text{ kg/m} 3 = 16229.7 \text{ kg}$

Total Weight = 63169 kg

Incinerator burn time: 1841.4hr - Afterburner outlet temperature above 1000°C

Ref: Process Summary Spreadsheets

Dioxin/Furans

Reporting of dioxins/furans is individual isomers and reported in grams to E-6 and not grams TEO

Dioxin/Furan emission for 2013

Specific Isomer	Emission rate g/hr *1 (unit conversion)	Total Emission (Emission Rate x Burn Time) grams
2378-tetrachlorodibenzo-p-dioxin	9.360E-10	1.72355E-06
12378-pentachlorodibenzo-p-dioxin	7.200E-10	1.32581E-06
123478-hexachlorodibenzo-p-dioxin	1.692E-09	3.11565E-06
123678-hexachlorodibenzo-p-dioxin	4.680E-09	8.61775E-06
123789-hexachlorodibenzo-p-dioxin	2.556E-09	4.70662E-06
1234678-heptachlorodibenzo-p-dioxin	2.808E-08	5.17065E-05
Octachlorodibenzo-p-dioxin	3.132E-08	5.76726E-05
2378-tetrachlorodibenzofuran	9.000E-10	1.65726E-06
12378-pentachlorodibenzofuran	7.920E-10	1.45839E-06
23478-pentachlorodibenzofuran	7.920E-10	1.45839E-06
123478-hexachlorodibenzofuran	9.000E-10	1.65726E-06
123678-hexachlorodibenzofuran	7.920E-10	1.45839E-06
234678-hexachlorodibenzofuran	6.120E-10	1.127E-06
123789-hexachlorodibenzofuran	7.200E-10	1.32581E-06
1234678-heptachlorodibenzofuran	2.340E-09	4.30888E-06
1234789-heptachlorodibenzofuran	1.512E-09	2.7842E-06
Octachlorodibenzofuran	1.080E-09	1.98871E-06

Total	8.0424E-08	1.481E-04

Notes:

- 1) From Table 44 Ortech Report CD# 0125-REP-79700-00020 R000
- 2) Incinerator burn time = time afterburner outlet temperature is above 1000°C = 1841.4 hrs
- 3) Reportable to NPRI if greater than 1.0E-6

The NPRI Reporting Program converts the isomer concentrations to gm TEQ and the emission in 2013 was 1.48E-04 g TEQ and is reported as 0.000g TEQ in the 2013 NPRI Report.

Historical data from past NPRI reports:

Emission in 2007	6.70E-5 g TEQ	reported to NPRI as 0.000 gm TEQ
Emission in 2008	1.40E-4 g TEQ	reported to NPRI as 0.000 gm TEQ
Emission in 2009	6.08E-5 g TEQ	reported to NPRI as 0.000 gm TEQ
Emission in 2010	3.71E-5 g TEQ	reported to NPRI as 0.000 gm TEQ
Emission in 2011	2.72E-4 g TEQ	reported to NPRI as 0.000 gm TEQ
Emission in 2012	1.69E-4 g TEQ	reported to NPRI as 0.000 gm TEQ

<u>Hexachlorobenzene</u>

Hexachlorobenzene emission rate for 2013 was 9.0E-06 g/hr from Ortech Report CD# 0125-REP-79700-00020 R000 Table 63.

Hexachlorobenzene emission for 2013 was 9.0E-06 g /hr x 1841.4 hr = 1.66E-2 g (reported to on 2013 NPRI report).

Historical Data from past N	PRI reports:		
Emission in 2007 4.16I	≣-2 g		
Emission in 2008 1.23I	≣-2 g		
Emission in 2009 1.29I	≣-1 g		
Emission in 2010 6.16I	•		
Emission in 2011 4.43I	3		
Emission in 2012 2.85I	≣-2 g		
Calculations Prepared by: _	N. King Permits and Approvals Cool	Date:	
Calculations Verified by:		Date:	
·	Dylan Wake		
	Performance Engineering		