

2014 - Alternate Fuel Consumed (tonnes)

	January	February	March	April	May	June	July	August	September	October	November	December
Cross Ties								29	8	7.2	77	10

2015 - Alternate Fuel Consumed (tonnes)

	January	February	March	April	May	June	July	August	September	October	November	December
Cross Ties	1			381	322	166	50	158	54	75		209

2016 - Alternate Fuel Consumed (tonnes)

	January	February	March	April	May	June	July	August	September	October	November	December
Cross Ties	251	22			30				370	377		

Williams Lake Power Plant

Owned and operated by:



AtlanticPower
Corporation

January 27, 2017
Environmental Protection
400-640 Borland Street
Williams Lake, B.C
V2G 4T1

Attention: s.19 – (via e-mail):

Re: Environmental Management Act - Permit #8808 reporting requirements. Williams Lake Power Plant.

Dea: s.19

Pursuant to Permit #8808 of the Environmental Management Act; Atlantic Power encloses records of treated wood waste, hydrocarbon contaminated wood residues and other non-biomass contaminants as required under article 3.4 of the permit.

Included are the following items:


- a) Summary of Treated Wood Residue (Section 2.7.1)
- b) Summary of Hydrocarbon Contaminated Wood Residues (Section 2.7.2)
- c) Summary of Non-Biomass Contaminates (Section 2.7.3)

A summary of Atlantic Power's Williams Lake Power plant 2016 annual wood consumption:

<u>Description</u>	<u>Permit</u>	<u>2016 Actual</u>
Treated Wood Residues (Section 2.7.1)	5%	None
Hydrocarbon Contaminated Wood (Section 2.7.2)	-	None
Non-Biomass Contaminates (Section 2.7.3)	1%	0.00%

If you have any questions regarding this report, I can be contacted at 250-392-6394 ext. 8413

Sincerely,


Jared Taylor
Environmental Coordinator
Cc: M. Blezard



AtlanticPower
Corporation

2016 Non-Standard Fuel Log

Date	Fuel Type	Gross Wt.	Tare Wt.	Net Wt.	Supplier - Representative	Comments
		(kgs)	(kgs)	(kgs)		
25-Jan-01	Marijuana			25	RCMP	Destruction of illegal substance. Scaled weight
9-Aug-16	Marijuana			15	RCMP	Destruction of illegal substance. Scaled weight.
Total <input type="text" value="40"/> Kgs						
Green Tonnes: <input type="text" value="0.040"/>						

Totals	Kgs
Marijuana	40
Paper	
Used Shop Rags	
Used first-aid supplies	
Tree Planting Boxes	
	40

2016 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2016 Deliveries	421711.190
Less Ash	31343.640
Less Chemical	0.000
Total Wood Waste for 2015	390367.550

Treated Wood Waste (Section 2.7.1)	
Source	Green Tonnes
Rail Ties	0.000
Misc.	0.000
Total Treated Wood Waste for 2016	0.000
Percentage of Treated Wood Waste for 2016	0.00%

2016 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2016 Deliveries	421711.190
Less Ash	31343.640
Less Chemical	0.000
Total Wood Waste for 2016	390367.550

Hydro Carbon Contaminated Wood Waste (Section 2.7.2)	
Source	Green Tonnes
No deliveries under section 2.7.2 for 2016	0.000
Total Treated Wood Waste for 2016	0.000
Percentage of Treated Wood Waste for 2015	0.00%

2016 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2016 Deliveries	421711.190
Less Ash	31343.640
Less Chemical	0.000
Total Wood Waste for 2015	390367.550

Non-Biomass Waste (Section 2.7.3)	
Source	Green Tonnes
Various - see detailed summary	0.040
Total Non-Biomass Waste for 2016	0.040
Percentage of Treated Wood Waste for 2015	0.00%

Williams Lake Power Plant

Owned and operated by:



January 15, 2015
Environmental Protection
400-640 Borland Street
Williams Lake, B.C
V2G 4T1

Attention s.19 - (via e-mail):

Re: Environmental Management Act - Permit #8808 reporting requirements, Williams Lake Power Plant.

Dear s.19

Pursuant to Permit #8808 of the Environmental Management Act; Atlantic Power encloses records of treated wood waste, hydrocarbon contaminated wood residues and other non-biomass contaminants as required under article 3.4 of the permit.

Included are the following items:

- a) Summary of Treated Wood Residue (Section 2.7.1)
- b) Summary of Hydrocarbon Contaminated Wood Residues (Section 2.7.2)
- c) Summary of Non-Biomass Contaminates (Section 2.7.3)

A summary of Atlantic Power's Williams Lake Power plant 2015 annual wood:

<u>Description</u>	<u>Permit</u>	<u>2015 Actual</u>
Treated Wood Residues (Section 2.7.1)	5%	0.00%
Hydrocarbon Contaminated Wood (Section 2.7.2)	-	None
Non-Biomass Contaminates (Section 2.7.3)	1%	0.00%

If you have any questions regarding this report, I can be contacted at 250-392-6394 ext. 8413

Sincerely,


Jared Taylor
Environmental Coordinator
Cc: M. Blezard

2015 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2015 Deliveries	500022.260
Less Ash	28069.720
Less Chemical	53.660
Total Wood Waste for 2015	471898.880

Treated Wood Waste (Section 2.7.1)	
Source	Green Tonnes
Rail Ties	0.000
Misc.	0.000
Total Treated Wood Waste for 2015	0.000
Percentage of Treated Wood Waste for 2015	0.00%

2015 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2015 Deliveries	500022.260
Less Ash	28069.720
Less Chemical	53.660
Total Wood Waste for 2015	471898.880

Hydro Carbon Contaminated Wood Waste (Section 2.7.2)	
Source	Green Tonnes
No deliveries under section 2.7.2 for 2015	0.000
Total Treated Wood Waste for 2015	0.000
Percentage of Treated Wood Waste for 2015	0.00%

2015 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2015 Deliveries	500022.260
Less Ash	28069.720
Less Chemical	53.660
Total Wood Waste for 2015	471898.880

Non-Biomass Waste (Section 2.7.3)	
Source	Green Tonnes
Various - see detailed summary	0.050
Total Non-Biomass Waste for 2015	0.050
Percentage of Treated Wood Waste for 2015	0.00%



**AtlanticPower
Corporation**

2015 Non-Standard Fuel Log

Date	Fuel Type	Gross Wt. (kgs)	Tare Wt. (kgs)	Net Wt. (kgs)	Supplier - Representative	Comments
18-Feb-15	Marijuana			30	RCMP	
23-Sep-15	Shop Rags			10	AP - Williams Lake	Destruction of illegal substance. Scaled weight
28-Oct-15	Marijuana			10	RCMP	Oily Shop Rags. Scaled weight.
						Destruction of illegal substance. Scaled weight.
Total				50	Kgs	
Green Tonnes:				0.050		

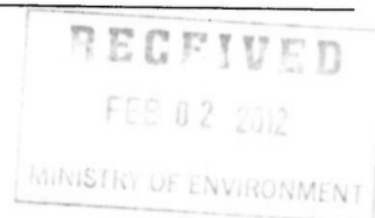
Totals	Kgs
Marijuana	40
Paper	
Used Shop Rags	10
Used first-aid supplies	
Tree Planting Boxes	
	50

8808



AtlanticPower
Corporation

CPI Preferred Equity Ltd
Williams Lake Power Plant
Bag Service 1000
Williams Lake, BC V2G 4R7
T 250.392.6394 F 250.392.6395



January 31, 2012

Environmental Protection
400-640 Borland Street
Williams Lake, B.C.
V2G 4T1

Attention: s.19 P.Eng.

Re: Environmental Management Act - Permit #8808 reporting requirements. Williams Lake Power Plant.

Dear s.19

Pursuant to Permit #8808 of the Environmental Management Act, CPI Preferred Equity Ltd. (formerly NW Energy Corp.) encloses records of treated wood waste, hydrocarbon contaminated wood residues and other non-biomass contaminates as required under article 3.4 of the permit.

Included are the following items:

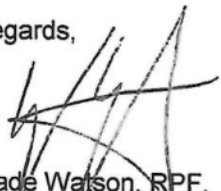
- (a) Summary of Treated Wood Residue (Section 2.7.1)
- (b) Summary of Hydrocarbon Contaminated Wood Residues (Section 2.7.2)
- (c) Summary of Non- Biomass Contaminates (Section 2.7.3)

A summary of CPI Preferred Equity Ltd's Williams Lake Power Plant 2011 annual wood :

<u>Description</u>	<u>Permit</u>	<u>2011 Actual</u>
Treated Wood Residues (Section 2.7.1)	5%	0.00%
Hydrocarbon Contaminated Wood (Section 2.7.2)	-	None
Non-Biomass Contaminates (Section 2.7.3)	1%	0.01%

If you have any questions regarding this report, please do not hesitate to call me at 250.392.8413.

Regards,


Wade Watson, RPF.
Environmental Coordinator.

cc: M. Blezard

2011 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2011 Deliveries	590,658.36
Less Ash	49,018.46
Less Chemical	43.6
Less Scrap Metal	0
Total Wood Waste for 2011	541,596.29

Treated Wood Waste (Section 2.7.1)	Green Tonnes
CN Rail	0.00
A.C.C.	0.00
Total Treated Wood Waste for 2011	0.00
Percentage of Treated Wood Waste for 2011	0.00%

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2011 Williams Lake Power Plant	
Summary of Hydrocarbon Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2011 Deliveries	590,658.36
Less Ash	49,018.46
Less Chemical	43.6
Less Scrap Metal	0
Total Wood Waste for 2011	541,596.29

Hydro Carbon Contaminated Wood Waste (Section 2.7.2)	
Source	Green Tonnes
No Deliveries under Section 2.7.2 for 2011.	0.00
Total Treated Wood Waste for 2011	0.00
Percentage of Hydrocarbon Wood Waste for 2011	0.00%

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2011 Williams Lake Power Plant	
Summary of Non-Biomass Contaminates 2.7.3	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2011 Deliveries	590,658.36
Less Ash	49,018.46
Less Chemical	43.6
Less Scrap Metal	0
Total Wood Waste for 2011	541,596.29

Non-Biomass Waste (Section 2.7.3)	
Source	Green Tonnes
Various - see detailed summary	53.39
Total Non-Biomass Waste for 2011	53.39
Percentage of Non-Biomass Waste for 2011	0.01%

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2011 Non-Standard Fuel Log

Date	Fuel Type	Gross Wt. (kgs)	Tare Wt. (kgs)	Net Wt. (kgs)	Supplier - Representative	Comments
11-Jan-11	Paper	-	-	81	West Fraser	Archive disposal.
15-Jan-11	Marijuana	3330	3200	130	RCMP	Destruction of illegal substance. Scaled weight.
20-Jan-11	Marijuana	3270	3160	110	RCMP	Destruction of illegal substance. Scaled weight.
27-Jan-11	Paper	-	-	100	Johnson Meir Insurance	Mark Wessels
31-Jan-11	Marijuana	4350	3940	410	RCMP	Destruction of illegal substance. Scaled weight.
11-Feb-11	Marijuana	2930	2850	80	RCMP-Ken Davis	Destruction of illegal substance. Scaled weight.
30-Mar-11	Marijuana	7770	6480	1,290	RCMP-Ken Davis	Destruction of illegal substance. Scaled weight.
20-Apr-11	Marijuana	2630	2580	50	RCMP	Destruction of illegal substance. Scaled weight.
20-May-11	Marijuana	2960	2890	70	RCMP	Destruction of illegal substance. Scaled weight.
2-Jun-11	Paper	3890	2630	1,260	Tolko Lakeview	Archive disposal - Shawn Durand 72 boxes (17.5kgs/box average)
17-Jun-11	Marijuana	2720	2690	30	RCMP	Destruction of illegal substance. Scaled weight.
20-Jun-11	Paper	3830	3270	560	Tolko Lakeview	Archive disposal - Shawn Durand 32 boxes (17.5kgs/box average)
13-Jul-11	Marijuana	2860	2850	10	RCMP	Destruction of illegal substance. Scaled weight.
13-Jul-11	Marijuana	2800	2580	220	RCMP	Destruction of illegal substance. Scale down - used tare weigh from April 20/11
20-Jul-11	Marijuana	2720	2650	70	RCMP	Destruction of illegal substance. Scaled weight.
3-Aug-11	Marijuana	2650	2630	20	RCMP	Destruction of illegal substance. Scaled weight.
20-Aug-11	Paper	2870	2760	110	Allied Blower	Archive disposal.
23-Aug-11	Marijuana	4760	4200	560	RCMP	Destruction of illegal substance. Scaled weight.
26-Aug-11	Marijuana	2950	2750	200	RCMP	Destruction of illegal substance. Scaled weight.
11-Oct-11	Oily Rags	-	-	40	Williams Lake Power	Disposal of shop rags - Shane McMath
13-Oct-11	Marijuana	2950	2840	110	RCMP	Destruction of illegal substance. Scaled weight.
13-Oct-11	Marijuana	2740	2720	20	RCMP	Destruction of illegal substance. Scaled weight.
17-Nov-11	Marijuana	-	-	3.5	RCMP	Destruction of illegal substance. Table top scale.
1-Dec-11	Marijuana	4940	4340	600	RCMP	Destruction of illegal substance. Scaled weight.
9-Dec-11	Marijuana	-	-	5.4	RCMP	Destruction of illegal substance. Table top scale.
23-Aug-11	Tree Planting Boxes	-	-	47,250	Jackass Junction	Disposal of shredded tree planting boxes. June 13- August 23, 2011.
Total		53,390		Kgs		
Green Tonnes:		53,390				

Totals	Kgs
Marijuana	3,989
Paper	2,111
Oily Rags	40
Tree Planting Boxes	47,250
	53,390

CONFIDENTIAL

8808

Capital Power Corporation
Williams Lake Power Plant
Bag Service 1000
Williams Lake, BC V2G 4R7
T 250.392.6394 F 250.392.6395
www.capitalpower.com

**Capital Power
Corporation**



January 31, 2011

Environmental Protection
400-640 Borland Street
Williams Lake, B.C.
V2G 4T1

Attention: s.19

Re: Environmental Management Act - Permit #8808 reporting requirements. NW Energy Corp.

Dear s.19

Pursuant to the recently amended Permit #8808 of the Environmental Management Act, NW Energy Corp. encloses records of treated wood waste, hydrocarbon contaminated wood residues and other non-biomass contaminates as required under article 3.4 of the permit.

Included are the following items:

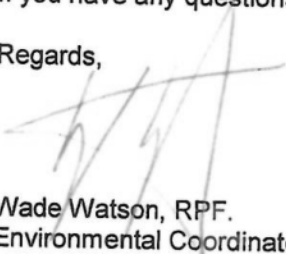
- (a) Summary of Treated Wood Residue (Section 2.7.1)
- (b) Summary of Hydrocarbon Contaminated Wood Residues (Section 2.7.2)
- (c) Summary of Non- Biomass Contaminates (Section 2.7.3)

A summary of NW Energy Corp.'s Williams Lake Power Plant 2010 annual wood :

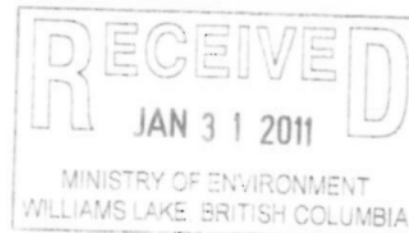
<u>Description</u>	<u>Permit</u>	<u>2010 Actual</u>
Treated Wood Residues (Section 2.7.1)	5%	1.18%
Hydrocarbon Contaminated Wood (Section 2.7.2)	-	None
Non-Biomass Contaminates (Section 2.7.3)	1%	0.01%

If you have any questions regarding this report, please do not hesitate to call me at 250.392.6394 ext. 226

Regards,


Wade Watson, RPF.
Environmental Coordinator.

cc: M. Blezard
J. Tufts



2010 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - NW Energy Corp.	
	Green Tonnes
Total 2010 Deliveries	535,016.88
Less Ash	54,835.81
Less Chemical	61.7
Less Scrap Metal	4.16
Total Wood Waste for 2010	480,115.22

Treated Wood Waste (Section 2.7.1)	Green Tonnes
CN Rail	5,654.29
A.C.C.	0.00
Total Treated Wood Waste for 2008	5,654.29
Percentage of Treated Wood Waste for 2010	1.18%

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2010 Williams Lake Power Plant	
Summary of Hydrocarbon Wood Waste	
Permit #8808 - NW Energy Corp.	
	Green Tonnes
Total 2010 Deliveries	535,016.88
Less Ash	54,835.81
Less Chemical	61.7
Less Scrap Metal	4.16
Total Wood Waste for 2010	480,115.22

Hydro Carbon Contaminated Wood Waste (Section 2.7.2)	
Source	Green Tonnes
No Deliveries under Section 2.7.2 for 2010.	0.00
Total Treated Wood Waste for 2010	0.00
Percentage of Hydrocarbon Wood Waste for 2010	0.00%

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2010 Williams Lake Power Plant	
Summary of Non-Biomass Contaminates 2.7.3	
Permit #8808 - NW Energy Corp.	
	Green Tonnes
Total 2010 Deliveries	535,016.88
Less Ash	54,835.81
Less Chemical	61.7
Less Scrap Metal	4.16
Total Wood Waste for 2010	480,115.22

Non-Biomass Waste (Section 2.7.3)	
Source	Green Tonnes
Various - see detailed summary	56.81
Total Non-Biomass Waste for 2010	56.81
Percentage of Non-Biomass Waste for 2010	0.01%

CONFIDENTIAL

Non-Standard Fuel Log

Note: Started recording information June 2010

Date	Fuel Type	Gross Wt. (kgs)	Tare Wt. (kgs)	Net Wt. (kgs)	Supplier - Representative	Comments
17-Jun-10	Paper	-	-	885	Tolko Lakeview - Tracy.	Archive disposal. 65 File boxes @ 13.6kgs/box
15-Jul-10	Paper	-	-	408	Inland Kenworth	Archive disposal. 30 file boxes @ 13.6kgs/box
22-Jul-10	Marijuana	-	-	300	RCMP - Cst. John Tent	Destruction of illegal substance. Estimate 600 plants @ 0.5kg per plant
10-Aug-10	Paper	-	-	136	Hi-Fi Express - Cindy.	Archive disposal. 10 file boxes @ 13.6kgs/box
10-Aug-10	Paper	-	-	15	WL Minor Hockey	Archive disposal. 1 file box @ 15.0 kgs/box
24-Aug-10	Marijuana	-	-	300	RCMP - Cst. M. Harper	Destruction of illegal substance. Scaled weight.
26-Aug-10	Paper	-	-	286	Petro Canada	Archive disposal. Scaled weight
26-Aug-10	Used Floor Dry	-	-	422	Petro Canada	Disposal of spilled fuel/absorbant, Scaled weight.
27-Aug-10	Hydraulic Oil	-	-	25	Quality Excavating	Hydraulic line broken on site, used hog fuel to absorb spill. Estimate.
30-Aug-10	Marijuana	-	-	690	RCMP	Destruction of illegal substance. Scaled weight.
31-Aug-10	Marijuana	-	-	150	RCMP	Destruction of illegal substance. Scaled weight.
2-Sep-10	Marijuana	-	-	22	RCMP	Destruction of illegal substance. Scaled weight.
9-Sep-10	Marijuana	11740	10770	970	RCMP	Destruction of illegal substance. Scaled weight.
9-Sep-10	Marijuana	5760	5550	210	RCMP	Destruction of illegal substance. Scaled weight.
9-Sep-10	Marijuana	2720	2520	200	RCMP	Destruction of illegal substance. Scaled weight.
10-Sep-10	Marijuana	-	-	1,040	RCMP	Destruction of illegal substance. Scaled weight.
14-Sep-10	Marijuana	-	-	700	RCMP	Destruction of illegal substance. Scaled weight.
20-Sep-10	Marijuana	-	-	50	RCMP	Destruction of illegal substance. Scaled weight.
21-Sep-10	Paper	-	-	150	Edward's Power Co.	Archive disposal. Scaled weight
23-Sep-10	Marijuana	-	-	150	RCMP	Destruction of illegal substance. Scaled weight.
24-Sep-10	Paper	6000	5000	1,000	Tolko	Archive disposal. Scaled weight
27-Sep-10	Marijuana	-	-	448	RCMP	Destruction of illegal substance. Averaged weight.
5-Nov-10	Marijuana	2740	2710	30	RCMP	Destruction of illegal substance. Scaled weight.
10-Nov-10	Marijuana	2870	2770	100	RCMP	Destruction of illegal substance. Scaled weight.
24-Nov-10	Marijuana	2760	2700	60	RCMP	Destruction of illegal substance. Scaled weight.
25-Nov-10	Marijuana	3720	3410	310	RCMP	Destruction of illegal substance. Scaled weight.
10-Dec-10	Marijuana	3080	2890	190	RCMP	Destruction of illegal substance. Scaled weight.
16-Dec-10	Marijuana	3000	2980	20	RCMP	Destruction of illegal substance. Scaled weight.
8-Jun-10	Tree Planting Boxes	-	-	47,540	Jackass Junction	Disposal of shredded tree planting boxes. June 8- August 10, 2010.
Total		56,807				
Green Tonnes:		56.8073				

CONFIDENTIAL

s.19

8808

From: s.19
Sent: Friday, September 2, 2011 4:34 PM
To: s.19
Subject: FW: 198345 - PYTRADE CANADA_Request for Support

s.19

Here are some bullets pertaining to the second paragraph:

- The Williams Lake Power Plant (WLPP) is permitted to incinerate creosote treated wood (power poles, rail ties, etc.) up to 5% of the annual plant fuel feed
- WLPP feeds wood residue fuel to the boiler at 1800 tonnes per day
- Currently no treated wood is delivered to the plant as the chipping operation that used to be in Williams Lake was shut down last year, it is possible that the plant may resume accepting railway ties in the future
- The chipping plant was located adjacent to the downtown core of Williams Lake and was the subject of complaints regarding nuisance odours and was a fire hazard concern
- The chipping plant was owned and operated by a contractor to CN Rail who was paid to chip the old ties by CN, WLPP did not pay for the chipped ties
- Testing of stack emissions at WLPP during a trial with 100% fuel feed of railway ties indicated somewhat higher dioxin emissions compared to clean wood (2.5 x higher), but well within provincial guidelines (2 order of magnitude lower than 1992 CCME guideline for hazardous waste incinerators) ref: Nov 2001 Emission Survey Report, A. Lenfranco and Assoc.
- Good combustion with adequate residence time and high temperature avoids excessive dioxin formation. Dioxin formation is minimized when combustion is above 700 degrees Celsius
- Factors that lead to increased dioxin formation are thought to include: poor gas-phase mixing, low combustion temperatures, oxygen-starved conditions, high particulate matter loading, presence of particulate matter bound copper, presence of hydrogen chlorine or chlorine, and significant gas-phase residence time in the 250-700 C temperature range (ref: "Emissions of Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans from Open Burning of Household Waste in Barrels", Environ. Sci Technol. 2000, 34, 377-384, P. Lemieux et al)
- I don't know what is meant by oxyds in the context below. Oxyds is an acronym for Oxidative Desulfurization a process in refining petroleum oils

s.19

From: s.19
Sent: Friday, September 2, 2011 3:42 PM
To: s.19
Subject: FW: 198345 - PYTRADE CANADA_Request for Support

Who would I send this to?

From: s.19
Sent: Friday, September 2, 2011 3:02 PM
To: s.19
Subject: FW: 198345 - PYTRADE CANADA_Request for Support

Hi s.19

Can you have staff provide me with some feedback on the second point? The Ministry of Transportation is looking for info on this issue, so I will pass along anything we have on it. We aren't assigning for response at this point.

Thanks for your help!

s.19

Dear Honorable Minister Lekstrom, Dear Honorable Minister Lake,

the Ministry of Energy via Minister Rich Coleman made the announcement on 23 July that the ICE Fund is funding 12 renewable energy projects in BC. Our company, PYTRADE CANADA was awarded with \$ 1Mio. to build a pyrolysis plant in Kitimat, BC. Since the announcement we did not receive any funds and can't start the manufacturing of key parts for the plant. Till date we invested over \$ 3,000,000 in equipment and project related works and already are facing losses due to inactivity of the ICE Fund. We hereby ask you for assistance to receive payment from the Ministry of Energy.

Our request directly has an impact on your both ministerial work:

1) Ministry of Transportation

Our company developed a new genset with Caterpillar to combust pyrolysis oil. The pyrolysis oils from our plants are the purest in the industry which allow these oils to be blended with diesel in conventional diesel engines. We can demonstrate and offer to BC Ferries and CN Rail that pyrolysis oil can be blended with existing diesel engines up to 20%. Caterpillar has equipped some of BC Ferries vessels, i.e The Queen of Westminster and we can reduce the diesel consumption of stationary diesels dramatically. This can only be achieved once we're in a position to build our plant in Kitimat, BC.

2) Ministry of Environment

We identified a severe environmental hazard in Canada, which are railroad

ties. Railroad ties were burnt in large quantities in the Lake Williams Power Plant but due to the creation of toxics, i.e. dioxin, this process was stopped. Dioxin is created by burning certain materials like creosote-treated railroad ties in an environment over 900 degrees celsius and in combination with oxygen (burning). The pyrolysis process of our plants is completely different as

- our temperature is between 450-500 degrees celsius and
- wood waste like creosote-treated railroad ties are vaporized in an oxygen free environment hence no creation of oxyds.

We can help CN Rail with the disposal of railroad ties and would be in a position to immediately take in up to 200,000 ties. Unfortunately we can't act as the Ministry of Energy is not releasing the funds as announced on 23 July, which give us the support to build our plant. Dan Green, CEO of the ICE Fund stated on 15 August that the documents for signature are on Minister Coleman's desk and need to be signed.

We hereby ask you Honorable Ministers to support us in the request to receive the funds as announced by Minister Rich Coleman.

Kind regards

Erich Fussl
CEO

PYTRADE CANADA INC.
23 West Pender Street
Vancouver, BC V6B 6E3

Tel.: +1 250 885 7130

4 Continuous Emissions Monitoring

4.1 Sulphur Oxides

Only Schedule A applies: No rail ties or greater than 1% C&D waste was used as feedstock during the reporting period, therefore no monitoring for Sulphur Oxides was required.

4.2 Nitrogen Oxides

The maximum hourly Nitrogen Oxides (NO_x) as Nitrogen Dioxide (NO₂) per month and average for the month at 8% O₂ is show Table 4-1. The Permitted hourly average is 320 mg/m³ at 8% O₂.

Table 4-1: Maximum hourly NO_x as NO₂ per month and average for the Month

	Maximum Hourly Average <i>mg/m³</i>	Monthly Average <i>mg/m³</i>
Sep 2016	266.8	190.3
Oct 2016	227.0	206.3
Nov 2016	225.3	203.7
Dec 2016	232.4	206.6

4.3 Hydrochloric Acid



Only Schedule A applies: No rail ties or greater than 1% C&D waste was used as feedstock during the reporting period, therefore no monitoring for Hydrochloric Acid was required.

4.4 Combustion Temperature

Only Schedule A applies: No rail ties or greater than 1% C&D waste was used as feedstock during the reporting period, therefore no monitoring of Combustion Temperature was required.

Rail Tie Incineration

Thursday, July 20, 2017
1:09 PM

Subject	Rail Tie Incineration
From	s.19
To	
Sent	Thursday, July 20, 2017 10:28 AM
Attachments	 8808 2016 AP-WLPP-...  2017-02-06 Lafarge ap...

s.19

The following is a list of permits that authorize the incineration of rail ties.

Permit	Permittee	Permit Clause	Authorized Amt	Amount incinerated 2016 (tonnes)			
8808	Atlantic Power	2.7	(50%)	0			
2559	Canfor Pulp Ltd.	1.2.3	(10%)	No reports on file.			
2762	Canfor Pulp Ltd.	1.3.3	(10%)	No reports on file.			
1894	Lafarge Canada	2.1		1050			
103943	Aboriginal Cogeneration Corp.	2.8	(100%)	No reports on file.			

Authorization under 1894 is not in the actual permit document but is likely authorized through a separate document that I was not able to locate. They have a protocol for approval of alternate fuels. Likely someone in the Kamloops office would have to do the sleuthing on that one.

Attached are the most current Non-Standard Fuel report from Atlantic Power PA-8808 and the alternate fuel consumption report from Lafarge PA-1894. The alternate fuel report is part of a much larger report (598 pages) that contains other information, not directly associated with rail ties.

I also reviewed the Domtar Kamloops permit (PA-1517) and rail cross ties are not listed as an authorized fuel in either the power boilers or lime kiln.

The permits are publically available at
<https://j200.gov.bc.ca/pub/ams/Default.aspx?PossePresentation=DocumentSearch>

Also attached is

s.19

Please be aware that while your inquiries are important to us, due to a high workload volume within the Northern Region a response can be expected in the next five business days. If you do not receive a response in the next five business days, please feel free to resend your message. Inquiries/applications are reviewed on a first in, first out basis.

If this is an ongoing environmental emergency, please call the 24-hour Spill/Environmental Emergency Reporting line at 1-800-663-3456.

Report All Poachers and Polluters (RAPP) tip-line: 1-877-952-7277 (Conservation Officer Service)

Williams Lake Power Plant

Owned and operated by:



AtlanticPower
Corporation

January 27, 2017
Environmental Protection
400-640 Borland Street
Williams Lake, B.C
V2G 4T1

Attention: **s.19** – (via e-mail):

Re: Environmental Management Act - Permit #8808 reporting requirements. Williams Lake Power Plant.

Dear **s.19**

Pursuant to Permit #8808 of the Environmental Management Act; Atlantic Power encloses records of treated wood waste, hydrocarbon contaminated wood residues and other non-biomass contaminants as required under article 3.4 of the permit.

Included are the following items:

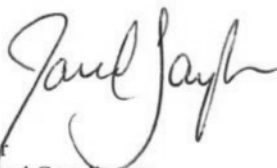
- a) Summary of Treated Wood Residue (Section 2.7.1)
- b) Summary of Hydrocarbon Contaminated Wood Residues (Section 2.7.2)
- c) Summary of Non-Biomass Contaminates (Section 2.7.3)

A summary of Atlantic Power's Williams Lake Power plant 2016 annual wood consumption:

<u>Description</u>	<u>Permit</u>	<u>2016 Actual</u>
Treated Wood Residues (Section 2.7.1)	5%	None
Hydrocarbon Contaminated Wood (Section 2.7.2)	-	None
Non-Biomass Contaminates (Section 2.7.3)	1%	0.00%

If you have any questions regarding this report, I can be contacted at 250-392-6394 ext. 8413

Sincerely,



Jared Taylor
Environmental Coordinator
Cc: M. Blezard

Bag Service 1000
Williams Lake, BC V2G 4R7

T 250 392 6394
F 250 392 6395

www.atlanticpower.com



AtlanticPower
Corporation

2016 Non-Standard Fuel Log

Date	Fuel Type	Gross Wt. (kgs)	Tare Wt. (kgs)	Net Wt. (kgs)	Supplier - Representative	Comments
25-Jan-01	Marijuana			25	RCMP	Destruction of illegal substance. Scaled weight.
9-Aug-16	Marijuana			15	RCMP	Destruction of illegal substance. Scaled weight.
				Total	40	Kgs
				Green Tonnes:	0.040	

Totals	Kgs
Marijuana	40
Paper	
Used Shop Rags	
Used first-aid supplies	
Tree Planting Boxes	40

2016 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2016 Deliveries	421711.190
Less Ash	31343.640
Less Chemical	0.000
Total Wood Waste for 2015	390367.550

Treated Wood Waste (Section 2.7.1)	
Source	Green Tonnes
Rail Ties	0.000
Misc.	0.000
Total Treated Wood Waste for 2016	0.000
Percentage of Treated Wood Waste for 2016	0.00%

2016 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2016 Deliveries	421711.190
Less Ash	31343.640
Less Chemical	0.000
Total Wood Waste for 2016	390367.550

Hydro Carbon Contaminated Wood Waste (Section 2.7.2)	
Source	Green Tonnes
No deliveries under section 2.7.2 for 2016	0.000
Total Treated Wood Waste for 2016	0.000
Percentage of Treated Wood Waste for 2015	0.00%

2016 Williams Lake Power Plant	
Summary of Treated Wood Waste	
Permit #8808 - Williams Lake Power Plant	
	Green Tonnes
Total 2016 Deliveries	421711.190
Less Ash	31343.640
Less Chemical	0.000
Total Wood Waste for 2015	390367.550

Non-Biomass Waste (Section 2.7.3)	
Source	Green Tonnes
Various - see detailed summary	0.040
Total Non-Biomass Waste for 2016	0.040
Percentage of Treated Wood Waste for 2015	0.00%



February 06, 2017

BC Ministry of Environment
102 Industrial Place
Penticton, BC V2A7C8

Attention: s.19

Subject: Approved Alternate Fuels and Raw Materials and consumption

The following is a list of approved alternate fuels and approved alternate raw materials not listed under Permit 1894. Also included is the 2016 use by month.

Alternate Fuel	Supplier	Description	Permitted When and by who
Oily Rags	Tervita	Rags with residual oils	Prior to 2011, B. John
Wood Waste	Various Suppliers	Sawdust and wood shavings	Prior to 2011, B. John and May 2014, D. Vergamini
Nova Carbon	Nova Chemicals	Spent carbon from filter media (water and amine systems)	Prior to 2011, B. John
Plastics	Merlin Plastics	Bottle Wrappers and Class 4-7 Plastics	2011, B. John, and Jan 14, 2013, F. Rhebergen
Chipped Oily Plastics	Tervita	Shredded containers previously containing oil	July 3, 2013, M. Haley
Used K-Cups	Van Houtte Coffee	Used K-cup coffee filters/cups	May 7, 2013, M. Haley
Nylon Fibre	Western Tire Fibre	Rayon Fibre from tire recycling	May 7, 2013, M. Haley
Asphalt Shingles	Gernaco Sales	Shingle Flakes	December 6, 2013, F. Rhebergen
Carpet Fibre	Again LLC	Shredded used carpet	January 14, 2014, F. Rhebergen
Polyurethane Mats	IC Urethane	Shredded urethane mats	July 7, 2014, D. Vergamini
Creosote Cross Ties	Various Suppliers	Chipped rail cross ties	July 30, 2014, D. Vergamini
Biocoal	Diacarbon	Torrefied Wood	August 18, 2014, D. Vergamini
Construction Demolition	Various Suppliers	Wood and plastic mixture from construction waste	January 29, 2015, S. Barlas

CEMENT GROUP / KAMLOOPS PLANT
9750 Shuswap Road, Kamloops, BC V2H 1T4
Tel: (250) 573-3211 Fax: (250) 573-4010



Waste			
Alternate Raw Material	Supplier	Description	Permitted When and by who
Spent Refractory Brick	Intalco Aluminum Corporation	Used Brick from anode bake ovens	February 27, 2014, F. Rhebergen

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2016 - Alternate Fuel Consumed (tonnes)

	January	February	March	April	May	June	July	August	September	October	November	December
Wood	192	76		35	160	435	307	70	185	189		
Shingles												
PEF						131	20					
Tire Fluff		100										
Cross Ties	251	22			30				370	377		
Urethane Mats					12							
Plastics	30											

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