

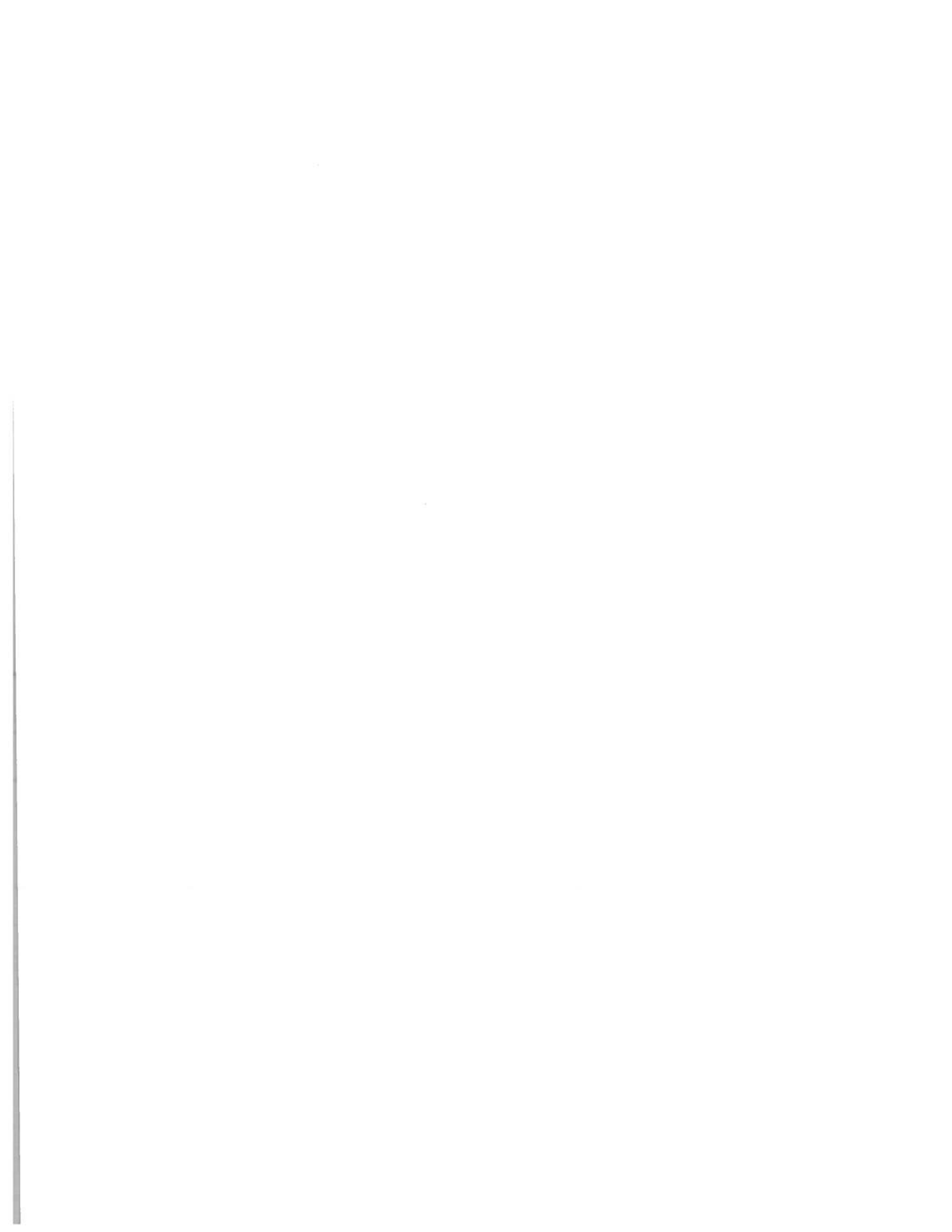
Documents with signatures redacted.

- 2008 Annual Report of Registry Operator
- 2009 Annual Report of Registry Operator
- 2010 Annual Report of Registry Operator
- 2011 Annual Report of Registry Operator
- 2012 Annual Report of Registry Operator
- 2013 Annual Report of Registry Operator
- 2014 Annual Report of Registry Operator
- 2015 Annual Report of Registry Operator

- 2013 Provisional Compliance Report
- 2014 Provisional Compliance Report
- 2015 Provisional Compliance Report

- 2008 to 2013 Director Decision February 24
- 2015 Director Decision March 17
- 2016 Director Decision March 27

- 2009 Director Policy Regarding Communication
- 2014 Director Policy Regarding Retirement Procedures



Registry Operator's 2008 Annual Report
Emissions Trading Regulation, Section 15
(Alberta Regulation 33 /2006)

The following is a summary of the Registry Operator's activity for activity for calendar year 2008.

(a) the number of emission credits issued;	56 tonnes (2006 year) and 24 tonnes (2007 year) credits of oxides of nitrogen
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	None
(c) the number of emission credits discounted and what that discount represents;	56 tonnes (2006 year) of oxides of nitrogen credits were discounted by 10%. Thus 5.6 tonnes of the above 56 cannot be used for compliance purposes.
(d) the number of transactions recorded by the registry;	None
(e) the aggregate balance of emission credits recorded by the registry;	80 tonnes of oxides of nitrogen credits are recorded in the Registry. 56 tonnes of the 80 tonnes are discounted by 10%.

Submitted by: Stephen Dobson, Alberta Environment – February 18, 2009

Excerpt Emissions Trading Regulation (AR 33 / 2006)

Annual report of registry operations

15 The registry operator must, on or before June 30 of each year, or any other date specified by the Minister, prepare and publish a report containing at least the following information in respect of the preceding year:

- (a) the number of emission credits issued;
- (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;
- (c) the number of emission credits discounted and what that discount represents;
- (d) the number of transactions recorded by the registry;
- (e) the aggregate balance of emission credits recorded in the registry.



**Registry Operator's 2009 Annual Report
Emissions Trading Regulation, Section 15
(Alberta Regulation 33 /2006)**

Table 1 summarizes the Registry Operator's activity for calendar year 2009. The Registry homepage <http://www.environment.alberta.ca/apps/etr/> provides a summary of credits issued. Table 1 does not tally to the values presented on the Registry homepage for two reasons. First, Table 1 summarizes activity for the 2009 calendar year alone. Credits issued in 2010 are not shown in Table 1. Second, the Registry homepage shows the original mass value of credits. However, the majority of credits were created more than 2 years ago and are now discounted to 90% of their original mass value (Section 33 of the *Regulation*).

The Registry homepage also shows that few or no 2008 or 2009 vintage credits were issued. Unit operators are eligible to apply for 2008 credits up to December 31, 2010 and 2009 credits up to December 31, 2011. Most operators prefer to apply for two years of credits in one application to minimize administrative and verification costs. As a result, unit operators will likely apply for 2008 and 2009 vintage credits on or just before December 31, 2010.

Table 1: 2009 Annual Report of Registry Operations

(a) the number of emission credits issued;	12,601 tonnes of NO _x credits and 9,184 tonnes of SO ₂ credits.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	None
(c) the number of emission credits discounted and what that discount represents;	12,494 tonnes of NO _x and 9,184 tonnes of SO ₂ were discounted by 10%. The 10% discount represents 1249 tonnes of NO _x and 918 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	None.
(e) the aggregate balance of emission credits recorded by the registry;	11,389 tonnes of NO _x and 8,266 tonnes of SO ₂ .

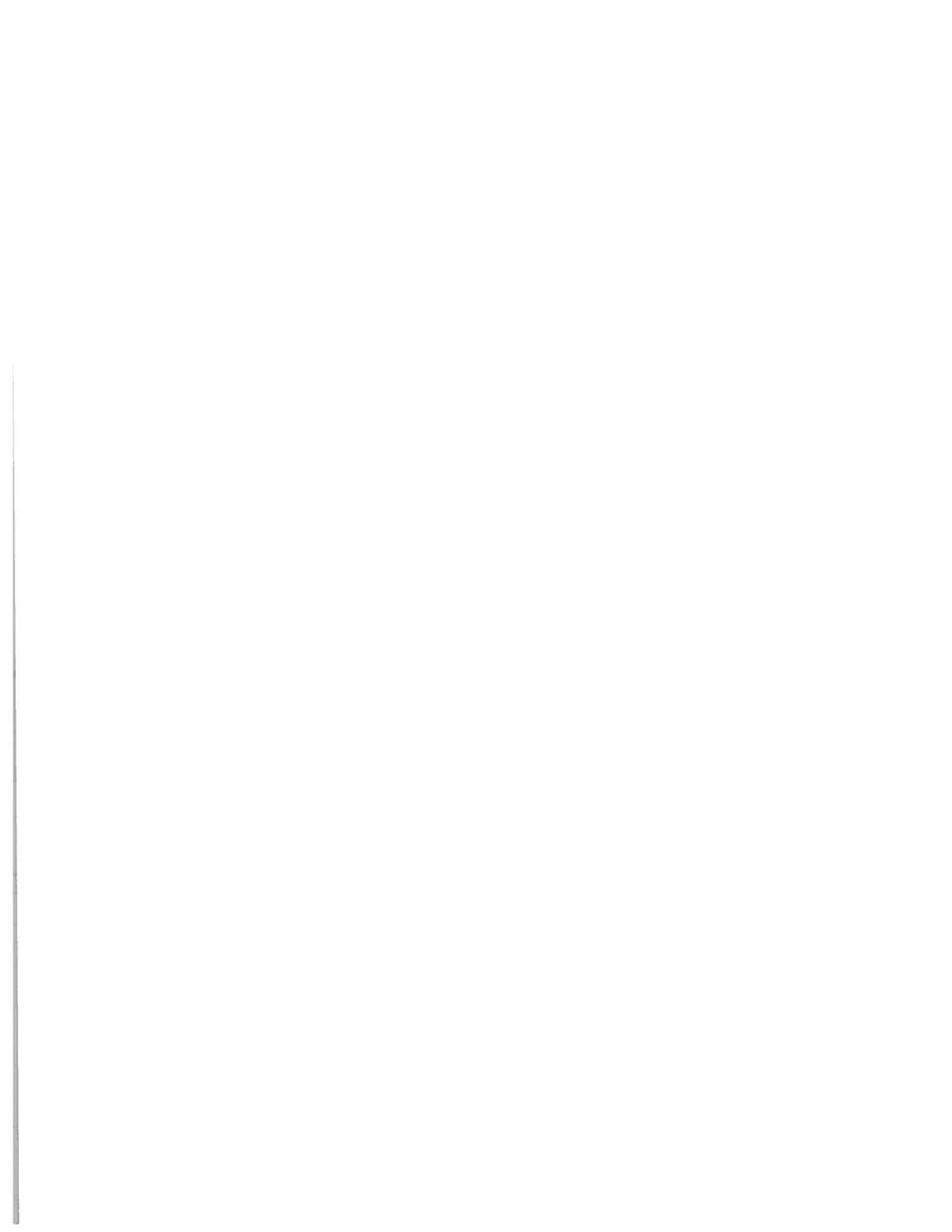
Submitted by: Stephen Dobson, Alberta Environment – June 8, 2010

Excerpt Emissions Trading Regulation (AR 33 / 2006)

Annual report of registry operations

15 The registry operator must, on or before June 30 of each year, or any other date specified by the Minister, prepare and publish a report containing at least the following information in respect of the preceding year:

- (a) the number of emission credits issued;
- (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;
- (c) the number of emission credits discounted and what that discount represents;
- (d) the number of transactions recorded by the registry;
- (e) the aggregate balance of emission credits recorded in the registry.



Annual Report Of Registry Operations For 2010

**Emissions Trading Regulation, Section 15
(Alberta Regulation 33 /2006)**

Table 1: 2010 Annual Report of Registry Operations

(a) the number of emission credits issued;	1,432 tonnes of NO _x credits and 2,130 tonnes of SO ₂ credits.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	163 tonnes of NO _x and 13 tonnes of SO ₂ . Credits were retired because they were created due to clerical errors by Alberta Environment acting as the Registry Operator. See Appendix A for details.
(c) the number of emission credits discounted and what that discount represents;*	The total number of credits in the Registry that are subject to discount as of the end of 2010 is 13,527 tonnes of NO _x and 11,312 tonnes of SO ₂ . These credits are to be discounted by 10%. The 10% discount represents 1352.7 tonnes of NO _x and 1131.2 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	Five transactions occurred in 2010 as detailed in Appendix A. These transactions relate to the correction of clerical errors by Alberta Environment.
(e) the aggregate balance of emission credits recorded by the registry;	14,112 tonnes of NO _x and 11,312 tonnes of SO ₂ .
(f) the aggregate balance of emission credits as it should read after discounting;	12,759.3 tonnes of NO _x and 10,180.8 tonnes of SO ₂ .

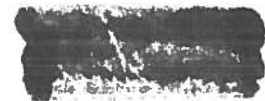
* For section (c) the discounted mass is for all issued credits for all vintages years regardless of what year the credits were issued excluding credits issued due to clerical error.

Kem Singh
Director
Alberta Environment

_____, June 30, 2011
Date

**Appendix A:
Credit Created Due To Data Entry Errors By Alberta Environment And Retired To
An Alberta Environment Account**

Unit	Serial Numbers	Retired To Alberta Environment's Account	Number of Credits
Battle River Unit 3	S2006-000001 to 000002	April 20, 2010	2
Battle River Unit 3	S2007-000001 to 000011	April 20, 2010	11
Battle River Unit 3	N2006-000108 to 000112	April 15, 2010	5
Battle River Unit 3	N2007-000047 to 000084	April 20, 2010	38
Calgary Energy Centre 1	N2008-0000407W to 000526W	April 20, 2010	120



Appendix B: Requirements for the Annual Report of Registry Operations

Excerpt *Emissions Trading Regulation (AR 33 / 2006)*

Annual report of registry operations

15 The registry operator must, on or before June 30 of each year, or any other date specified by the Minister, prepare and publish a report containing at least the following information in respect of the preceding year:

- (a) the number of emission credits issued;
- (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;
- (c) the number of emission credits discounted and what that discount represents;
- (d) the number of transactions recorded by the registry;
- (e) the aggregate balance of emission credits recorded in the registry.



Annual Report Of Registry Operations For 2011

Emissions Trading Regulation, Section 15 (Alberta Regulation 33 /2006)

Table 1: 2011 Annual Report of Registry Operations

(a) the number of emission credits issued;	26,297 tonnes of NO _x credits and 12,167 tonnes of SO ₂ credits.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	No credits were retired.
(c) the number of emission credits discounted and what that discount represents;	The total number of credits in the Registry that are subject to discount as of the end of 2011 is 41,772 tonnes of NO _x and 25,044 tonnes of SO ₂ . These credits are to be discounted by 10%. The 10% discount represents 4177.2 tonnes of NO _x and 2504.4 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	No transactions were made.
(e) the aggregate balance of emission credits recorded by the registry;	45,027 tonnes of NO _x and 25,058 tonnes of SO ₂ .
(f) the aggregate balance of emission credits as it should read after discounting;	40,849.8 tonnes of NO _x and 22,553.6 tonnes of SO ₂ .

Notes:

1. Section (a) accurately shows the number of credits issued by the Director in 2011. Sections (b) and (d) are the number of credits used for compliance and the number of transactions in 2011.
2. Section (c) shows the total number of credits in the registry as of May 31, 2012 that were eligible for discounting on December 31, 2011. Likewise, the size of the discount is for all credits issued up to May 31, 2012 but eligible for discount on December 31, 2011.
3. Sections (e) and (f) represent the balance of credits as of May 31, 2012.

Kem Singh
Director
Alberta Environment and
Sustainable Resource Development

_____, June 28, 2012
Date

Appendix A: Requirements for the Annual Report of Registry Operations

Excerpt *Emissions Trading Regulation (AR 33 / 2006)*

Annual report of registry operations

15 The registry operator must, on or before June 30 of each year, or any other date specified by the Minister, prepare and publish a report containing at least the following information in respect of the preceding year:

- (a) the number of emission credits issued;
- (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;
- (c) the number of emission credits discounted and what that discount represents;
- (d) the number of transactions recorded by the registry;
- (e) the aggregate balance of emission credits recorded in the registry.

Annual Report Of Registry Operations For 2012

**Emissions Trading Regulation, Section 15
(Alberta Regulation 33 /2006)**

Table 1: Annual Report of Registry Operations

(a) the number of emission credits issued;	4,619 tonnes of NO _x credits and 1,579 tonnes of SO ₂ credits.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	No credits were retired.
(c) the number of emission credits discounted and what that discount represents;	The total number of credits in the Registry that are subject to discount as of the end of 2012 is 43,963 tonnes of NO _x and 25,058 tonnes of SO ₂ . These credits are to be discounted by 10%. The 10% discount represents 4,396.3 tonnes of NO _x and 2,505.8 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	No transactions were made.
(e) the aggregate balance of emission credits recorded by the registry;	45,027 tonnes of NO _x and 25,058 tonnes of SO ₂ .
(f) the aggregate mass balance of emission credits after discounting;	40630.7 tonnes of NO _x and 22,552.2 tonnes of SO ₂ .

Kem Singh
Director
Alberta Environment and
Sustainable Resource Development

_____, June 5, 2013
Date

Appendix A: Requirements for the Annual Report of Registry Operations

Excerpt *Emissions Trading Regulation (AR 33 / 2006)*

Annual report of registry operations

15 The registry operator must, on or before June 30 of each year, or any other date specified by the Minister, prepare and publish a report containing at least the following information in respect of the preceding year:

- (a) the number of emission credits issued;
- (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;
- (c) the number of emission credits discounted and what that discount represents;
- (d) the number of transactions recorded by the registry;
- (e) the aggregate balance of emission credits recorded in the registry.

Table 1: Director Credit Issue and Baseline Establishment Decisions and Serial Numbers

EPEA	Company	Facility	Unit	2009 NOx	2009 SO2	2010 NOx	2010 SO2
1512	ATCO	Battle River	Unit 3	453		446	
1512	ATCO	Battle River	Unit 4	479		485	
1512	ATCO	Battle River	Unit 5	1,235	780	592	27
9830	TransAlta	Sundance	Unit 3		207		
9830	TransAlta	Sundance	Unit 4		363		
9830	TransAlta	Sundance	Unit 5		56		
9830	TransAlta	Sundance	Unit 6		146		
10324	TransAlta	Keephills	Unit 2	45			
69209	ATCO	Rainbow Lake	Unit 4	239		281	
73899	ATCO	Muskeg 1	Unit 1	60		68	
73899	ATCO	Muskeg 2	Unit 2	63		59	
77375	Shell	Shell Scotford	Unit 1			114	
			Total	2,574	1,552	2,045	27

Table 2: Director Credit Issue and Baseline Establishment Decisions and Serial Numbers

EPEA	Company	Facility	Unit	2009 NOx	2009 SO2	2010 NOx	2010 SO2
1512	ATCO	Battle River	Unit 3	N2009-004616 to N2009-005068		N2010-000001 to N2010-000446	
1512	ATCO	Battle River	Unit 4	N2009-005069 to N2009-005547		N2010-000447 to N2010-000831	
1512	ATCO	Battle River	Unit 5	N2009-005548 to N2009-006782	S2009-004599 to S2009-005378	N2010-000832 to N2010-001523	S2010-000001 to S2010-000027
9830	TransAlta	Sundance	Unit 3		S2009-005379 to S2009-005585		
9830	TransAlta	Sundance	Unit 4		S2009-005586 to S2009-005948		
9830	TransAlta	Sundance	Unit 5		S2009-005949 to S2009-006004		
9830	TransAlta	Sundance	Unit 6		S2009-006005 to S2009-006150		
10324	TransAlta	Keephills	Unit 2	N2009-006783 to N2009-006827			
69209	ATCO	Rainbow Lake	Unit 4	N2009-006828 to N2009-007066		N2010-001524 to N2010-001804	
73899	ATCO	Muskeg 1	Unit 1	N2009-007067W to N2009-007126W		N2010-001805W to N2010-001872W	
73899	ATCO	Muskeg 2	Unit 2	N2009-007127W to N2009-007189W		N2010-001873W to N2010-001931W	
77375	Shell	Shell Scotford	Unit 1			N2010-001932 to N2010-002045	

Table 3: Summary of Credits Issued

Total Issue Credits	NOx	SO2
	4,619	1,579

Table 4: Discounting of Credits (tonnes)

Creation Year	NOx Discounted	SO2 Discounted	NOx Not Discounted	Total
2006	6,107	5,413	239	11,759
2007	20,799	5,899	211	26,909
2008	8,237	7,569	200	16,006
2009	6,902	6,150	287	13,339
2010	1,918	27	127	2,072
Total	43,963	25,058	1,064	70,085
Value of Discount	4,396.3	2,505.8		
Remaining Balance	39,566.7	22,552.2	1,064	63,182.9

June 27, 2014

Re: Annual Report of Registry Operations For Calendar Year 2013 Emissions Trading Regulation, Section 55 (Alberta Regulation 33 /2006)

Table 1 is a summary of the operators of the Registry operations for calendar year 2013.

Table 1: Annual Report of Registry Operations For 2013

(a) the number of emission credits issued;	8,200 NO _x credits and 8,712 SO ₂ credits. A further 149 NO ₂ credits were created due to a clerical error.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	149 NO ₂ were retired due to a clerical error.
(c) the number of emission credits discounted and what that discount represents;	The total number of credits in the Registry that are subject to discount as of the end of 2013 (January 1, 2014) is 51,932 NO _x credits 33,774 SO ₂ credits. The 10% discount represents 5,193.2 tonnes of NO _x and 3,377.4 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	No transactions were made.
(e) the aggregate balance of emission credits recorded by the registry;	53,227 NO _x credits and 33,774 SO ₂ credits.
(f) the aggregate mass balance of emission credits after discounting;	48,033.8 tonnes of NO _x and 30,396.6 tonnes of SO ₂ .


Kem Singh
Director for Emissions Trading Regulation
Alberta Environment and Sustainable Resource Development

Attachment A: Serial Numbers of Credits Created

Table 1: Number and Vintage of Credit Created and Baselines

Facility Name	EPEA Approval #	Unit #	NOx 2010 (tonnes)	SO2 2010 (tonnes)	NOx 2011 (tonnes)	SO2 2011 (tonnes)	NOx Baseline (kg/MWh)	SO2 Baseline (kg/MWh)
Genesee	773	1	826	787	360	514		
Genesee	773	2	765	729	382	545		
Genesee	773	3	1,916		1,972			
Milner	9814	1	578	1,899	557	1,693		
Sundance	9830	3		149		610		
Sundance	9830	4		238		778		
Sundance	9830	5		160		138		
Sundance	9830	6		154		238		
Keephills	10324	1			204			
Keephills	10324	2			84			
Keephills	10324	3			93	84	0.621	0.720
Rainbow lake	69209	4			230			
Muskeg	73899	1			73			
Muskeg	73899	2			69			
Shell Scotford	77375	1			2			
Calgary Energy Centre	138365	1	89					
Medicine Hat	11610	15					0.300	
Valleyview		2					1.886	
Total			4,174	4,116	4,026	4,600	-	-

Table 2

Facility Name	EPEA Approval #	Unit #	NOx 2010 (tonnes)	SO2 2010 (tonnes)	NOx 2011 (tonnes)	SO2 2011 (tonnes)
Genesee	773	1	n2010-002046 to 002871	s2010-000028-000814	n2011-000001-000360	s2011-000001-000514
Genesee	773	2	n2010-002872 to 003636	s2010-000815-001543	n2011-000361-000742	s2011-000515-001059
Genesee	773	3	n2010-003637 to 005552		n2011-000743-002714	
Milner	9814	1	n2010-005553-006130	s2010-001544-003442	n2011-002715-003271	s2011-001060-002752
Sundance	9830	3	n2010-006131-6279	s2010-003443-003591		s2011-002753-003362
Sundance	9830	4		s2010-003592-003829		s2011-003363-004140
Sundance	9830	5		s2010-003830-003989		s2011-004141-004278
Sundance	9830	6		s2010-003990-004143		s2011-004279-004516
Keephills	10324	1			n2011-003272-003475	
Keephills	10324	2			n2011-003476-003559	
Keephills	10324	3			n2011-003560-003652	s2011-004517-004600
Rainbow lake	69209	4			n2011-003653-003882	
Muskeg	73899	1			n2011-003883w-003955w	
Muskeg	73899	2			n2011-003956w-0040242w	
Shell Scotford	77375	1			n2011-004025-004026	
Calgary Energy Centre	138365	1	n2010-006280w-006368w			

NOTE: n2010-006131-n2010-6279 were created in error by Alberta Environment SRD and retired to an Alberta Environment SRD account.

Table 3: Total Credits Issued In 2013

NOx	SO2
8,200	8,716

Attachment B: Excerpts From Regulation

Annual report of registry operations

15 The registry operator must, on or before June 30 of each year, or any other date specified by the Minister, prepare and publish a report containing at least the following information in respect of the preceding year:

- (a) the number of emission credits issued;
- (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;
- (c) the number of emission credits discounted and what that discount represents;
- (d) the number of transactions recorded by the registry;
- (e) the aggregate balance of emission credits recorded in the registry.

Annual Report Of Registry Operations For 2014

**Emissions Trading Regulation, Section 15
(Alberta Regulation 33 /2006)**

Table 1: Annual Report of Registry Operations in Calendar Year 2014

(a) the number of emission credits issued;	1,761 of NO _x credits and 645 of SO ₂ credits.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	636 NO ₂ and 836 SO ₂ credits were retired.
(c) the number of emission credits discounted and what that discount represents;	The total number of credits in the Registry that are subject to discount at of the end of 2014 (January 1, 2015) included all credits with a vintage of 2012 or earlier and that number is 53,290 NO _x credits and 34,419 SO ₂ credits. These credits are to be discounted by 10% on December 31, 2014. The 10% discount represents 5,329 tonnes of NO _x and 3,441.9 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	No transactions were made.
(e) the aggregate balance of emission credits recorded by the registry;	54,988 NO _x credits and 34,419 SO ₂ credits.
(f) the aggregate mass balance of emission credits after discounting;	49,659 tonnes of NO _x and 30,977.1 tonnes of SO ₂ .

Kem Singh //
Director
Alberta Environment and Parks

_____, June 1, 2015
Date

Appendix B: Number of Credits Issued and Their Serial Numbers in 2014

EPEA	Company	Facility	Unit	2011 NOx	2011 SO2	2012 NOx	Discount-able	Serial numbers starting	Serial numbers ending
1512	ATCO	Battle River	Unit 3	384			Yes	n2011-004027	n2011-004410
1512	ATCO	Battle River	Unit 4	426			Yes	n2011-004411	n2011-004836
1512	ATCO	Battle River	Unit 5	142			Yes	n2011-004837	n2011-004978
1512	ATCO	Battle River	Unit 5		645		Yes	s2011-004601	s2011-005245
11610	City of Medicine Hat	Medicine Hat	Unit 10DLE	6			Yes	n2011-004979	n2011-004984
11610	City of Medicine Hat	Medicine Hat	Unit 10DLE			3	Yes	n2012-000001	n2012-000003
11610	City of Medicine Hat	Medicine Hat	Unit 11DLE	7			Yes	n2011-004985	n2011-004991
11610	City of Medicine Hat	Medicine Hat	Unit 11DLE			6	Yes	n2012-000004	n2012-000009
11610	Medicine Hat	Medicine Hat	Unit 15	22			Yes	n2011-004992	n2011-005013
11610	Medicine Hat	Medicine Hat	Unit 15			22	Yes	n2012-000010	n2012-000031
69209	ATCO	Rainbow Lake	Unit 4			237	Yes	n2012-000032	n2012-000268
73899	ATCO	Muskeg 1	Unit 1			77	No	n2012-000269w	n2012-000345w
73899	ATCO	Muskeg 2	Unit 2			68	No	n2012-000346w	n2012-000413w
136681	TransCanada	Carseland	Unit 1	19			No	n2011-005014w	n2011-005032w
136681	TransCanada	Carseland	Unit 1			23	No	n2012-000414w	n2012-000436w
136681	TransCanada	Carseland	Unit 2	9			No	n2011-005033w	n2011-005041w
136681	TransCanada	Carseland	Unit 2			7	No	n2012-000437w	n2012-000443w
136858	Nexen	Balzac	Unit 1	28			Yes	n2011-005042	n2011-005069
136858	Nexen	Balzac	Unit 1			75	Yes	n2012-000444	n2012-000518
136951	TransCanada	Redwater	Unit 1	17			No	n2011-005070w	n2011-005086w
136951	TransCanada	Redwater	Unit 1			2	No	n2012-000519w	n2012-000520w
155746	TransCanada	Mackay River	Unit 1	87			No	n2011-005087w	n2011-005173w
155746	TransCanada	Mackay River	Unit 1			94	No	n2012-000521w	n2012-000614w
Totals									
				1147	645	614			
						2406			

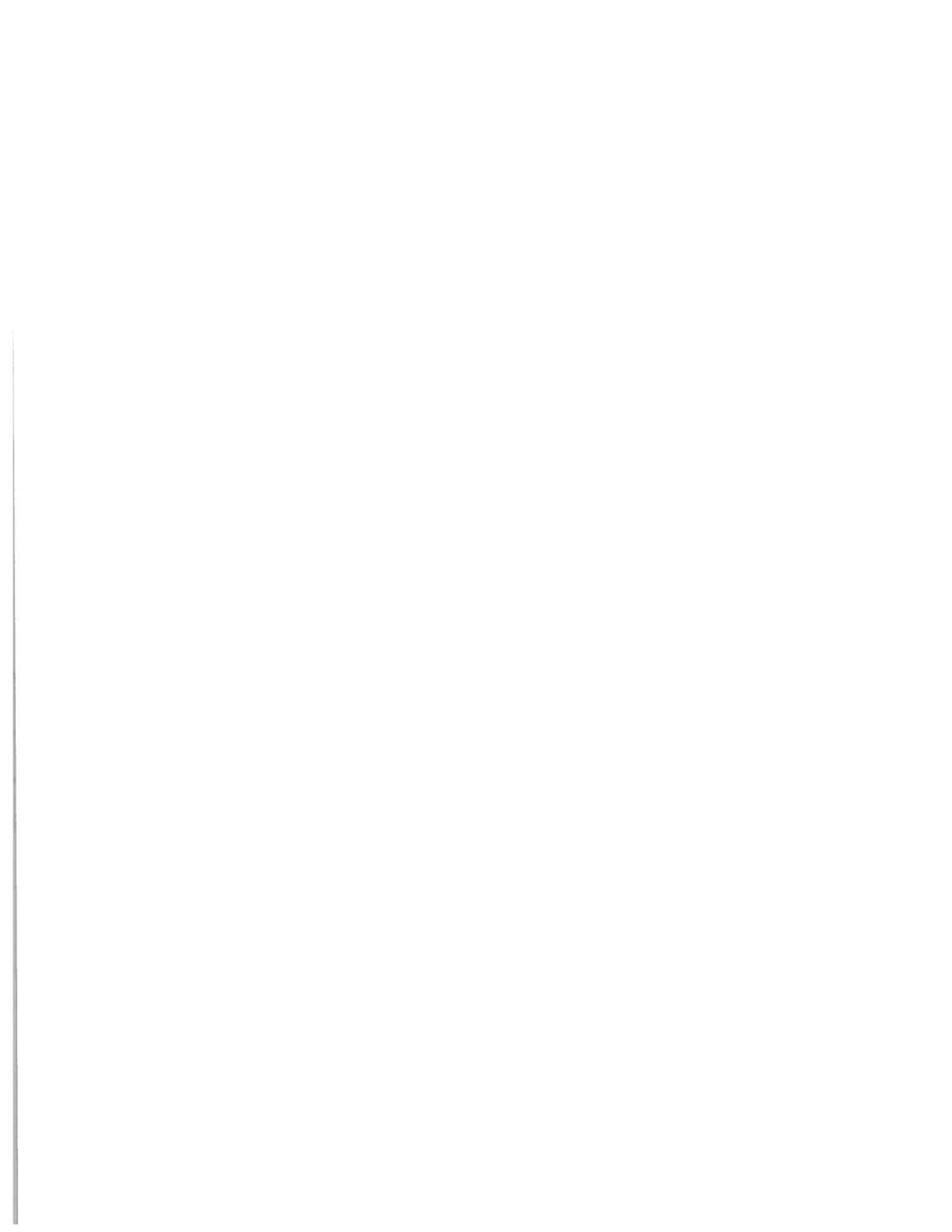
Appendix C: Requirements for the Annual Report of Registry Operations

Excerpts *Emissions Trading Regulation (AR 33 / 2006)*

Annual report of registry operations

15 The registry operator must, on or before June 30 of each year, or any other date specified by the Minister, prepare and publish a report containing at least the following information in respect of the preceding year:

- (a) the number of emission credits issued;
- (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;
- (c) the number of emission credits discounted and what that discount represents;
- (d) the number of transactions recorded by the registry;
- (e) the aggregate balance of emission credits recorded in the registry.



Annual Report Of Registry Operations For 2015

**Emissions Trading Regulation, Section 15
(Alberta Regulation 33 /2006)**

Table 1: Annual Report of Registry Operations in Calendar Year 2015

(a) the number of emission credits issued;	11,418 of NO _x credits and 9,173 of SO ₂ credits.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	762 NO ₂ and 1372 SO ₂ credits were retired.
(c) the number of emission credits discounted and what that discount represents;	The total number of credits in the Registry that are subject to discount at of the end of 2015 (January 1, 2016) included all credits with a vintage of 2013 or earlier and that number is 60,344 NO _x credits and 35,877 SO ₂ credits. These credits are discounted by 10%. The 10% discount represents 6034 tonnes of NO _x and 3,577 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	1 transaction was made between two companies involving SO ₂ credits.
(e) the aggregate balance of emission credits recorded by the registry;	63,119 NO _x credits and 35,877 SO ₂ credits (balance as of June 8, 2016).
(f) the aggregate mass balance of emission credits after discounting;	57,085 tonnes of NO _x and 32,300 tonnes of SO ₂ .

Kem Singh 
 Director
 Alberta Environment and Parks

_____, June 17, 2016
 Date

Appendix A: Table A.1 Number of Credits Issued and Their Serial Numbers in 2015

EPEA	Company	Facility	Unit	2012 Nox	2012 SO2	2013 NOx	2013 SO2	Serial Numbers Start	Serial Number End	Check	Comment
773	Capital Power	Genesee	Unit 1	800				n2012-000615	n2012-001414	800	
773	Capital Power	Genesee	Unit 2	761				n2012-001415	n2012-002175	761	
773	Capital Power	Genesee	Unit 1		810			s2012-000001	s2012-000810	810	
773	Capital Power	Genesee	Unit 2		771			s2012-000811	s2012-001581	771	
773	Capital Power	Genesee	Unit 3	1767				n2012-002176	n2012-003942	1767	
773	Capital Power	Genesee	Unit 1			323		n2013-000001	n2013-000323	323	
773	Capital Power	Genesee	Unit 2			344		n2013-000324	n2013-000667	344	
773	Capital Power	Genesee	Unit 1				682	s2013-000001	s2013-000682	682	
773	Capital Power	Genesee	Unit 2				725	s2013-000683	s2013-001407	725	
773	Capital Power	Genesee	Unit 3			2251		n2013-000668	n2013-002918	2251	
1512	ATCO	Battle River	Unit 3	166				n2012-003943	n2012-004108	166	
1512	ATCO	Battle River	Unit 4	166				n2012-004109	n2012-004274	166	
1512	ATCO	Battle River	Unit 4			38		n2013-002919	n2013-002956	38	
1512	ATCO	Battle River	Unit 5	15				n2012-004275	n2012-004289	15	
1512	ATCO	Battle River	Unit 5		420			s2012-001582	s2012-002001	420	
9814	Milner	Milner	Unit 1	706				n2012-004290	n2012-004995	706	
9814	Milner	Milner	Unit 1		2122			s2012-002002	s2012-004123	2122	
9830	TransAlta	Sundance	Unit 1				259	s2013-001408	s2013-001666	259	
9830	TransAlta	Sundance	Unit 2				196	s2013-001667	s2013-001862	196	
9830	TransAlta	Sundance	Unit 3		276			s2012-004124	s2012-004399	276	
9830	TransAlta	Sundance	Unit 3				362	s2013-001863	s2013-002224	362	
9830	TransAlta	Sundance	Unit 4		353			s2012-004400	s2012-004752	353	
9830	TransAlta	Sundance	Unit 4				400	s2013-002225	s2013-002624	400	
9830	TransAlta	Sundance	Unit 5		486			s2012-004753	s2012-005238	486	
9830	TransAlta	Sundance	Unit 5				314	s2013-002625	s2013-002938	314	
9830	TransAlta	Sundance	Unit 6		508			s2012-005239	s2012-005746	508	
9830	TransAlta	Sundance	Unit 6				295	s2013-002939	s2013-003233	295	
10324	TransAlta	Keephills	Unit 1	783				n2012-004996	n2012-005778	783	

EPEA	Company	Facility	Unit	2012 Nox	2012 SO2	2013 NOx	2013 SO2	Serial Numbers Start	Serial Number End	Check	Comment
10324	TransAlta	Keephills	Unit 1			350		n2013-002957	n2013-003306	350	
10324	TransAlta	Keephills	Unit 2	869				n2012-005779	n2012-006647	869	
10324	TransAlta	Keephills	Unit 2		31			s2012-005747	s2012-005777	31	
10324	TransAlta	Keephills	Unit 2			806		n2013-003307	n2013-004112	806	
10324	TransAlta	Keephills	Unit 3	217				n2012-006648	n2012-006864	217	
10324	TransAlta	Keephills	Unit 3		163			s2012-005778	s2012-005940	163	
10324	TransAlta	Keephills	Unit 3			295		n2013-004113	n2013-004407	295	
11610	City of Medicine Hat	Medicine Hat	Unit 10DLE			3		n2013-004408	n2013-004410	3	
11610	City of Medicine Hat	Medicine Hat	Unit 11DLE			7		n2013-004411	n2013-004417	7	
11610	City of Medicine Hat	Medicine Hat	Unit 15			35		n2013-004418	n2013-004452	35	
69209	ATCO	Rainbow Lake	Unit 4			239		n2013-004453	n2013-004691	239	
69209	ATCO	Rainbow Lake	Unit 5	21				n2012-006865	n2012-006885	21	
69209	ATCO	Rainbow Lake	Unit 5			26		n2013-004692	n2013-004717	26	
73899	ATCO	Muskeg 1	Unit 1			58		n2013-004718w	n2013-004775w	58	
73899	ATCO	Muskeg 2	Unit 2			60		n2013-004776w	n2013-004835w	60	These credits were created in Muskeg 1's account in error. They were not transferred to 2's account.
138365	Calgary Energy Centre	Calgary Energy Centre	Unit 1	163				n2012-006886w	n2012-007048w	163	
138365	Calgary Energy Centre	Calgary Energy Centre	Unit 1			125		n2013-004836w	n2013-004960w	125	
246216	Enmax	Crossfield	Unit 1	1				n2012-007049	n2012-007049	1	
246216	Enmax	Crossfield	Unit 2	7				n2012-007050	n2012-007056	7	
246216	Enmax	Crossfield	Unit 2			13		n2013-004961	n2013-004973	13	
246216	Enmax	Crossfield	Unit 3	2				n2012-007057	n2012-007058	2	
246216	Enmax	Crossfield	Unit 3			1		n2013-004974	n2013-004974	1	

Appendix B: Irregularities

The following irregularities exist in the Registry. The irregularities occurred between 2006 and 2016.

- N2013-004776w to N2013-004835w were created in Muskeg 1's account but were created by Muskeg 2.
- Muskeg's 2012 credits are created as baseline credits but they should be discountable.
- Annual Report for 2014 lists "Appendix B and C". There is no Appendix A.

Table B.1 Credits Created in Error

N2010-006131	N2010-006279	-149	Erroneously created in 2013 by Registry Operator and Retired to Alberta Environment Erroneous Account 2013
N2006-000108	N2006-000112	-5	Erroneously created in 2010 by Registry Operator and Retired to Alberta Environment Erroneous Account 2010
N2007-000047	N2007-000084	-38	Erroneously created in 2010 by Registry Operator and Retired to Alberta Environment Erroneous Account 2010
N2008-000407	N2008-000526	-120	Erroneously created in 2010 by Registry Operator and Retired to Alberta Environment Erroneous Account 2010
S2006-000001	S2006-000002	-2	Erroneously created in 2010 by Registry Operator and Retired to Alberta Environment Erroneous Account 2010
S2007-000001	S2007-000011	-11	Erroneously created in 2010 by Registry Operator and Retired to Alberta Environment Erroneous Account 2010

Table B.2 Credits Retired Correctly But To The Wrong Compliance Year

Start of Credit Series	End of Credit Series	Number of Credits	Incorrect Retirement Year In Registry	Correct Retirement Year	In This Unit's Retirement Account
N2012-004109	N2012-004289	181	2013	2014	ATCO - 001512 Battle River - 3
N2013-002919	N2013-002956	38	2013	2014	ATCO - 001512 Battle River - 3
S2006-000003	S2006-000181	179	2007	2014	ATCO - 001512 Battle River - 3
S2006-000363	S2006-000999	637	2007	2014	ATCO - 001512 Battle River - 3
S2006-001000	S2006-001349	350	2007	2014	ATCO - 001512 Battle River - 3
S2007-000303	S2007-000999	697	2013	2014	ATCO - 001512 Battle River - 3
S2007-001000	S2007-001999	1000	2013	2014	ATCO - 001512 Battle River - 3
S2007-002000	S2007-002156	157	2013	2014	ATCO - 001512 Battle River - 3
S2008-002465	S2008-002704	240	2013	2014	ATCO - 001512 Battle River - 3
S2012-001582	S2012-002001	420	2013	2014	ATCO - 001512 Battle River - 3

Annex To Provisional Compliance Report: Excerpts From Regulation

How emission credits are used for compliance purposes

45 An emission credit may be used by a unit operator for compliance purposes in respect of a generating unit if the unit operator

- (a) has authority under its approval to use emission credits for compliance purposes, and
- (b) provides to the registry operator by April 30 of the year following the year in which the emission credits are used
 - (i) confirmation of their use, and
 - (ii) the serial number of each emission credit used.

Annual Reports

55(1) On or before March 31 of each year, in respect of the preceding year, a unit operator who has an emissions trading account must submit to the registry operator a report showing

- (a) the annualized air emissions data for NO_x and, if applicable, for SO₂ for each of the unit operator's generating units, and
- (b) the annual MWh output for each of the unit operator's generating units.

(2) On or before May 31 of each year, a unit operator who has used emission credits for compliance purposes in respect of the generating unit for the previous year must submit to the registry operator a report

- (a) containing a notification from the registry operator that the emission credits have been retired, and
- (b) that includes the following calculation for NO_x and, if applicable, for SO₂ indicating the number of NO_x and SO₂ emission credits retired for compliance purposes for the previous year:

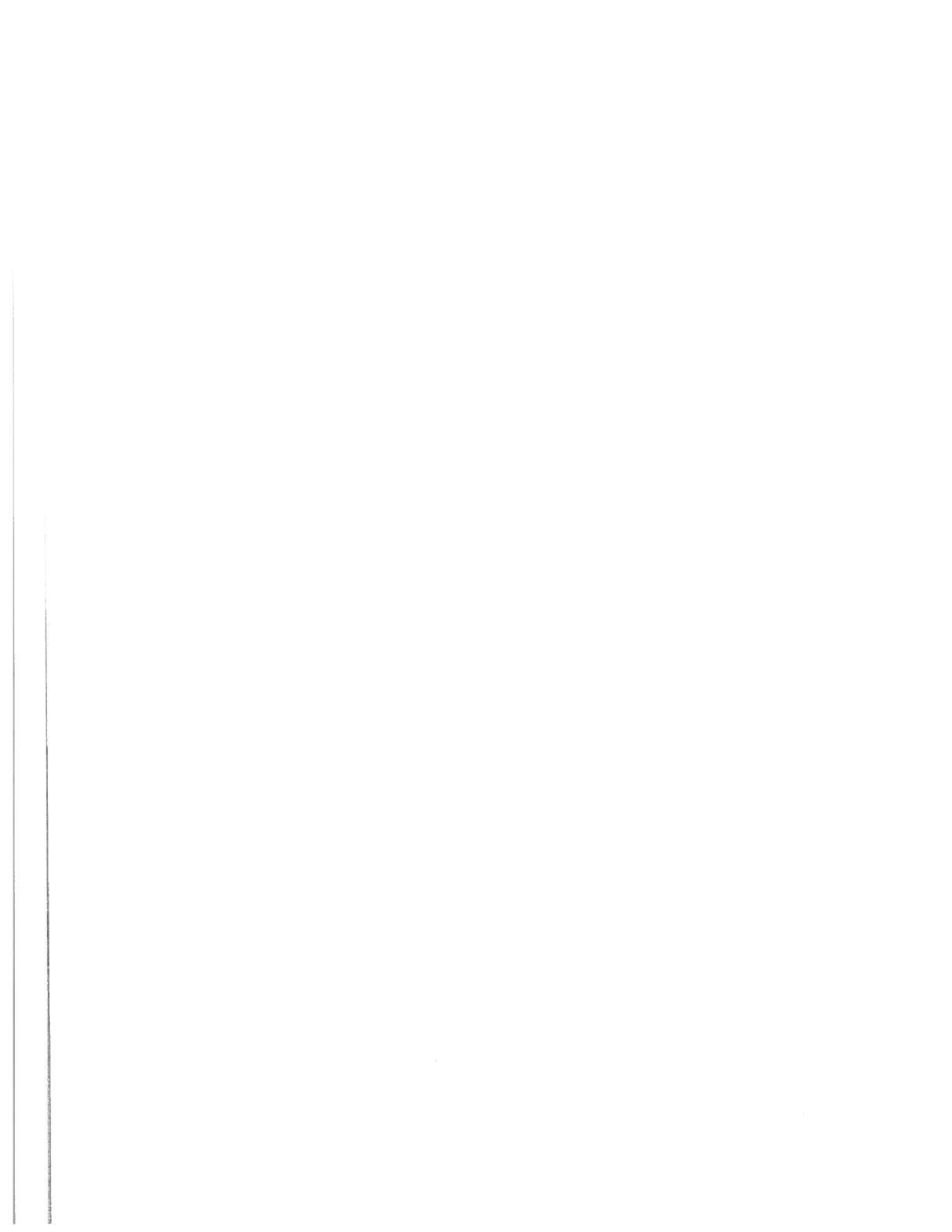
$$\frac{A - (B \times C)}{1000}$$

where

A is the actual emissions in kilograms;

B is the annual MWh output for the generating unit for the year;

C is the current emissions standards.



June 27, 2014

Re: Provincial Compliance Report For Calendar Year 2013 Emissions Trading Regulation, Section 55 (Alberta Regulation 33 /2006)

The Registry Operator received one compliance report according to Section 55(2) in 2014.

Milner Power with *Environmental Protection and Enhancement Act* approval 9814 used credits for compliance in regard of calendar year 2013. Table 1 and 2 summarizes Milner Power's sections 55(1) and 55(2) reports.

Table 1: Section 55(1) Reporting – Summary Compiled by Registry Operator

Approval	9814
Company	Milner Power Corp
Facility	Milner
Reporting Year	2013
Unit	1
Net Generation - All Sources	637,460 MWh
Sulphur Dioxide Emissions	1,250 tonnes
SO2 Emission Intensity	1.961 kg/MWh
Nitrogen Oxides Emissions	928 tonnes
NOx Emission Intensity	1.456 kg/MWh

Table 2: Section 55(2) Reporting – Summary Compiled by Registry Operator

Approval	9814	
Company	Milner Power Corp	
Facility	Milner	
Reporting Year	2013	
Unit	1	
Factor	SO2	NOx
Emission Limit	0.65 kg/MWh	0.47 kg/MWh
Actual Intensity	1.961 kg/MWh	1.456 kg/MWh
Credits Needed	836 tonnes	628 tonnes
Credits Retired	836 tonnes	636 tonnes
Mass Value of Retired	836 tonnes	628 tonnes

This provisional assessment indicates that Milner Power holding Environmental Protection and Enhancement Act Approval 9814 retired sufficient credits to satisfy the requirements of their Approval.

Kem Singh ✓
Director and Registry Operator for *Emissions Trading Regulation*
Alberta Environment and Sustainable Resource Development

Attachment 1: Excerpts From Regulation

How emission credits are used for compliance purposes

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- (b) provides to the registry operator by April 30 of the year following the year in which the emission credits are used
 - (i) confirmation of their use, and
 - (ii) the serial number of each emission credit used.

Annual Reports

55(1) On or before March 31 of each year, in respect of the preceding year, a unit operator who has an emissions trading account must submit to the registry operator a report showing

- (a) the annualized air emissions data for NO_x and, if applicable, for SO₂ for each of the unit operator's generating units, and
- (b) the annual MWh output for each of the unit operator's generating units.

(2) On or before May 31 of each year, a unit operator who has used emission credits for compliance purposes in respect of the generating unit for the previous year must submit to the registry operator a report

- (a) containing a notification from the registry operator that the emission credits have been retired, and
- (b) that includes the following calculation for NO_x and, if applicable, for SO₂ indicating the number of NO_x and SO₂ emission credits retired for compliance purposes for the previous year:

$$\frac{A - (B \times C)}{1000}$$

where

A is the actual emissions in kilograms;

B is the annual MWh output for the generating unit for the year;

C is the current emissions standards.

June 01, 2015

**Re: Provisional Compliance Report For Calendar Year 2014
Emissions Trading Regulation, Section 55 (Alberta Regulation 33 /2006)**

The Registry Operator received two compliance reports according to Section 55(2) in 2015.

Milner Power with *Environmental Protection and Enhancement Act* approval 9814 and ATCO Power with approval 1512 used credits for compliance in regard of calendar year 2014. Table 1 and 2 summarizes Milner Power's sections 55(1) and 55(2) reports.

Table 1: Section 55 Reporting – Summary Compiled by Registry Operator for 2014

Approval	9814		1512	
Facility	HR Milner		Battle River	
EPEA Approval Holder	Milner Power Corp		ATCO	
Unit	1		3	
Generation (MWh)	672550		702847	
Substance	SO2	NOx	SO2	NOx
Emission Limit (kg/MWh)	0.65	0.47	0.65	0.47
Emissions (tonnes)	1,883,221	1,033,595	4,008,853	1,810,795
Actual Intensity (kg/MWh)	2.800	1.537	5.704	2.576
Credits Needed (tonnes)	1,446.1	717.5	3,552.0	1,480.5
Credits Retired (credits)	1,606	797	3901	1,602
Mass Value of Retired (tonnes)	1,446	717	3,552.9	1,780.3

This provisional assessment indicates that holders of Environmental Protection and Enhancement Act approvals 9814 and 1512 retired sufficient credits to satisfy the requirements of their approvals in regard to annual NOx and SO2 emission total.

Kem Singh ✓
Director and Registry Operator for *Emissions Trading Regulation*
Alberta Environment and Parks

Handwritten text, possibly a signature or initials, located in the lower right quadrant of the page.

June 13, 2016

**Re: Provisional Compliance Report For Calendar Year 2015
Emissions Trading Regulation, Section 55 (Alberta Regulation 33 /2006)**


The Registry Operator received two compliance reports under Section 55(2) of the Emissions Trading Regulation in 2016.

Milner Power with *Environmental Protection and Enhancement Act* (EPEA) approval 9814 and ATCO Power with EPEA approval 1512 used credits for compliance during the 2015 calendar year. Table 1 summarizes Milner Power's and ATCO's annual reports.

Table 1: Section 55 Reporting – Summary Compiled by Registry Operator for 2015

Approval	9814		1512	
Facility	HR Milner		Battle River	
EPEA Approval Holder	Milner Power Corp		ATCO	
Unit	1		3	
Generation (MWh)	303,446		142,548	
Substance	SO2	NOx	SO2	NOx
Emission Limit (kg/MWh)	0.65	0.47	0.65	0.47
Emissions (kilograms)	778,970	529,080	745,985	366,177
Actual Intensity (kg/MWh)	2.567	1.744	5.233	2.568
Credits Needed (tonnes)	581	386	653	299
Credits Retired (credits)	646	429	726	333
Mass Value of Retired (tonnes)	581	386	653	299

This provisional assessment indicates that holders of EPEA approvals 9814 and 1512 retired sufficient credits to satisfy the requirements of their approvals in regard to annual NOx and SO2 emission total.


 Kem Singh
 Director and Registry Operator for the Emissions Trading Regulation
 Alberta Environment and Parks

Attachment 1: Excerpts From Regulation

How emission credits are used for compliance purposes

45 An emission credit may be used by a unit operator for compliance purposes in respect of a generating unit if the unit operator

- (a) has authority under its approval to use emission credits for compliance purposes, and
- (b) provides to the registry operator by April 30 of the year following the year in which the emission credits are used
 - (i) confirmation of their use, and
 - (ii) the serial number of each emission credit used.

Annual Reports

55(1) On or before March 31 of each year, in respect of the preceding year, a unit operator who has an emissions trading account must submit to the registry operator a report showing

- (a) the annualized air emissions data for NO_x and, if applicable, for SO₂ for each of the unit operator's generating units, and
- (b) the annual MWh output for each of the unit operator's generating units.

(2) On or before May 31 of each year, a unit operator who has used emission credits for compliance purposes in respect of the generating unit for the previous year must submit to the registry operator a report

- (a) containing a notification from the registry operator that the emission credits have been retired, and
- (b) that includes the following calculation for NO_x and, if applicable, for SO₂ indicating the number of NO_x and SO₂ emission credits retired for compliance purposes for the previous year:

$$\frac{A - (B \times C)}{1000}$$

where

A is the actual emissions in kilograms;

B is the annual MWh output for the generating unit for the year;

C is the current emissions standards.

Provisional Compliance Report For 2015
(Section 55, Emissions Trading Regulation,
Environmental Protection and Enhancement Act - EPEA)
(May 24, 2016)

Issue:

Director to sign "Provincial Compliance Report For 2015" if he agrees with the contents.

Recommendation:

- The Director review this briefing and decide whether to sign the "Provisional Compliance Report for 2015".
- The Director to understand the Provisional report is not required by the Regulation. Operations Division determines compliance thus this report is "provisional". This report is provided annually so that Approval Writer's know operators retired credits.

Background:

Two electricity generating EPEA approvals holders (Battle River 3 and Milner 1) must achieve annual NOx and SO2 limits specified in Section 4 of their EPEA approvals. The most recent compliance year is calendar year 2015.

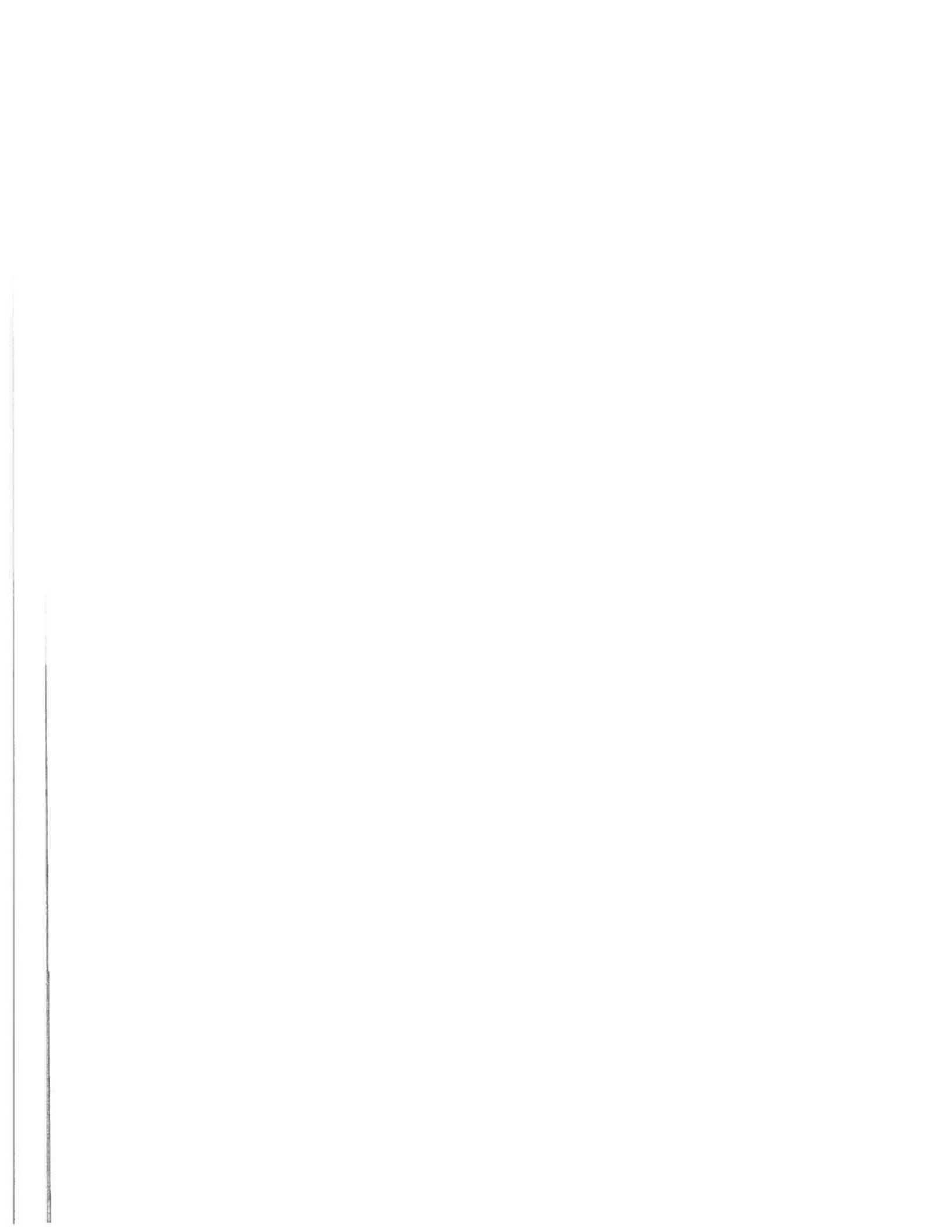
The two operators must use NOx and SO2 credits defined in the Emissions Trading Regulation to comply. Operator can use emissions control equipment however their installed controls can't achieve the required limits.

To be in compliance, the operators must submit three reports to the Registry Operator. First, the operator must accurately report their annual emissions and generation to the Registry Operator by March 31. Second, the operator must ask the Registry Operator to retire credits by April 30. Third, the operator must report their calculation of credits needed for compliance and the number of credits actually used by May 31.

The Registry Operator is the Minister of Alberta Environment and Parks (Singh / McLennan / Dobson).

Compliance:

- Both ATCO Battle River 3 and Maxim H R Milner sent compliance reports to Alberta Environment and Parks by May 31 2016.
- Dobson checked the following:
 - The operator's reported emissions are the same as stated in the operator's annual report of March 31.
 - The operators reported credit retirements corresponded to the credits retired in April. The required number of credits was calculated according to the Regulation.
 - Dobson found that operators reported data consistent with previous reports and made calculations consistent with the Regulation.



Director's Decisions

From 2008 to 2013

For the Emissions Trading Regulation (AR 33/ 2006)

Environmental Protection and Enhancement Act

December 5, 2008

Dear unit operators (see Table A):

The baselines emission rates listed in Table 1 were established according to Part 4 of the *Emissions Trading Regulation* (AR 33/2006) in June 2007.

Table 2 lists units that do not need a baseline emission rate.



Table 3 lists units whose baselines emission rate applications are still being reviewed by Alberta Environment or for which Alberta Environment is awaiting further information.

Table 4 lists interim baselines that will be posted for 45 days for public review as of the date of this letter. Credit applications can be made based of these interim baselines however will not be reviewed until the baselines are established.

Table 5 lists emission credits to be issued. The credits are issued when the Registry Operator assigns a serialized and unique identifier.

If you have questions regarding this letter please contact me at (780) 427-2234 or Keith.Leggat@gov.ab.ca.

Sincerely,



Keith Leggat
Director, Climate Change, Air, Land and Policy Branch
Alberta Environment

Copies: Registry Operator
Alberta Environment Industrial Approval Coordinators (Table A)

Table A: Unit Operators (Addresses) and Approval Coordinators (Copies)

EPEA Approval	Facility	Unit Operator	Alberta Environment Industrial Approval Coordinator
9830	Sundance	Brandt, Kent	Steve Cook
10323	Wabamun	Brandt, Kent	Steve Cook
10324	Keephills	Brandt, Kent	Steve Cook
136858	Balzac	Brown, Brandon	Joseph Feehan
138365	Calpine	Corbin, David	Joseph Feehan
136385	Cavalier	Doumonceau, Terry	Joseph Feehan
773	Genesee	Fyhn, Kelly	Steve Cook
77375	Shell Scotford	Ouellet, Moe	Julie Norwig
9814	Milner	Rob Watson	Jennifer Keturakis
136681	Carseland	Schulz, Jason	Weigo Wu
136951	Redwater	Schulz, Jason	Albert Liu
151812	Bear Creek	Schulz, Jason	Jennifer Keturakis
155746	Mackay River	Schulz, Jason	Parmjit Singh
68179	AL Scotford	Tardiff, Anne	Angela Ryan
11610	Medicine Hat	Teske, David	Susan McIntosh
123	Sheerness	Tingley, Joan	Matt Haghghi
1512	Battle River	Tingley, Joan	Robert Pole
11718	Rainbow Lake	Tingley, Joan	Jennifer Keturakis
67774	Poplar Hill	Tingley, Joan	Jennifer Keturakis
73899	Muskeg	Tingley, Joan	Mohammad Habib
147709	Valleyview	Tingley, Joan	Jennifer Keturakis

Table 1: Baselines Emission Rates Established As Of June 2007

EPEA Approval	Facility	Type	Unit	NOx (kg/MWh)	SO2 (kg/MWh)
123	Sheerness	Coal	Unit 1	1.925	5.925
123	Sheerness	Coal	Unit 2	1.925	5.925
773	Genesee	Coal	Unit 1	2.125	2.331
773	Genesee	Coal	Unit 2	2.125	2.331
1512	Battle River	Coal	Unit 3	2.276	5.098
1512	Battle River	Coal	Unit 4	2.276	5.098
1512	Battle River	Coal	Unit 5	2.394	5.040
9814	Milner	Coal	Unit 1	2.876	5.318
9830	Sundance	Coal	Unit 1	1.520	1.681
9830	Sundance	Coal	Unit 2	1.554	1.674
9830	Sundance	Coal	Unit 3	1.627	2.098
9830	Sundance	Coal	Unit 4	1.641	2.096
9830	Sundance	Coal	Unit 5	1.497	2.087
9830	Sundance	Coal	Unit 6	1.499	2.094
10323	Wabamun	Coal	Unit 4	2.167	3.118
10324	Keephills	Coal	Unit 1	2.191	2.033
10324	Keephills	Coal	Unit 2	2.173	2.034
67774	Poplar Hill	Gas	Unit 1	0.223	n/a
136385	Cavalier	Gas	Units 1 and 2	0.567	n/a
136858	Balzac	Gas	Units 1 and 2	0.537	n/a
138365	Calpine	Gas	Unit 1	0.200	n/a
147709	Valleyview	Gas	Unit 1	0.496	n/a

Table 2: Units Not Required To Have A Baseline Emission Rate

EPEA Approval	Facility	Type	Unit	NOx (kg/MWh)	SO2 (kg/MWh)
1395	Rossdale	Gas	Unit 8, 9 & 10	n/a	n/a
10323	Wabamun	Coal	Unit 1, 2 and 3	n/a	n/a
11279	Cancarb	Gas	Unit 1	n/a	n/a
11461	U of A	Gas	All units	n/a	n/a
50096	Gold Creek	Gas	Unit 1 and 2	n/a	n/a
48325	Fort Sask	Cogen	Unit 1	n/a	n/a
149007	AES Calgary	Not built	Unit 1 and 2	n/a	n/a
152640	Altek Ft MacLeod	Not built	Unit 1	n/a	n/a

Table 3: Baseline Emission Rates Being Reviewed By Alberta Environment

EPEA Approval	Facility	Type	Unit	NOx (kg/MWh)	SO2 (kg/MWh)
77375	Shell Scotford	Cogen	Unit 1	TBA	n/a
136951	Redwater	Cogen	Unit 1	TBA	n/a
151812	Bear Creek	Cogen	Unit 1	TBA	n/a
155746	Mackay River	Cogen	Unit 1	TBA	n/a

TBA – to be announced

Table 4: Interim Baselines Established For 45 Days Review

EPEA Approval	Facility	Type	Unit	NOx (kg/MWh)	SO2 (kg/MWh)
68179	AL Scotford	Cogen	Unit 1	0.200	n/a
11718	Rainbow Lake	Gas	Unit 1	5.118	n/a
11718	Rainbow Lake	Gas	Unit 2	5.330	n/a
11718	Rainbow Lake	Gas	Unit 3	5.428	n/a
69209	Rainbow Lake	Cogen	Unit 4	1.216	n/a
69209	Rainbow Lake	Gas	Unit 5	0.634	n/a
73899	Muskeg	Cogen	Unit 1	0.200	n/a
73899	Muskeg	Cogen	Unit 2	0.200	n/a
136681	Carseland	Cogen	Unit 1	0.200	n/a
136681	Carseland	Cogen	Unit 2	0.200	n/a
11610	Medicine Hat	Gas	Unit 8	2.140	n/a
11610	Medicine Hat	Gas	Unit 10	2.850	n/a
11610	Medicine Hat	Gas	Unit 11	2.080	n/a
11610	Medicine Hat	Gas	Unit 14	0.204	n/a

Table 5: Credits To Be Issued

EPEA Approval	Facility	Type	Year	NOx (tonnes)
136385	Cavalier	Baseline	2006	56
136385	Cavalier	Baseline	2007	24

March 23, 2009

Dear unit operators (see Table A):

The baselines emission rates listed in Table 1 were established according to Part 4 of the *Emissions Trading Regulation* (AR 33/2006) in June 2007.

Table 2 lists units that do not need a baseline emission rate.

Table 3 lists units whose baselines emission rate applications are still being reviewed by Alberta Environment or for which Alberta Environment is awaiting further information.

Table 4 lists baselines established as of March 20, 2009. These baselines were posted for 45 days for public review as of December 5, 2008. No public comments were received.

Table 5 lists emission credits to be issued. The credits are issued when the Registry Operator assigns a serialized and unique identifier. Table 5 also lists credits in outstanding applications for which Alberta Environment is waiting for additional information.

Table 6 lists additional information required by the Director from facilities with pending or incomplete applications as well as operational decisions.

Table 7 lists Director's policy and operational decisions.

If you have questions regarding this letter please contact me at (780) 427-2234 or Keith.Leggat@gov.ab.ca.

Sincerely,

Keith Leggat
Director, Climate Change, Air, Land and Policy Branch
Alberta Environment

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773	Genesee	Coal	Unit 2	2.125	2.331
1512	Battle River	Coal	Unit 3	2.276	5.098
1512	Battle River	Coal	Unit 4	2.276	5.098
1512	Battle River	Coal	Unit 5	2.394	5.040
9814	Milner	Coal	Unit 1	2.876	5.318
9830	Sundance	Coal	Unit 1	1.520	1.681
9830	Sundance	Coal	Unit 2	1.554	1.674
9830	Sundance	Coal	Unit 3	1.627	2.098
9830	Sundance	Coal	Unit 4	1.641	2.096
9830	Sundance	Coal	Unit 5	1.497	2.087
9830	Sundance	Coal	Unit 6	1.499	2.094
10323	Wabamun	Coal	Unit 4	2.167	3.118
10324	Keephills	Coal	Unit 1	2.191	2.033
10324	Keephills	Coal	Unit 2	2.173	2.034
67774	Poplar Hill	Gas	Unit 1	0.223	n/a
136385	Cavalier	Gas	Units 1 and 2	0.567	n/a
136858	Balzac	Gas	Units 1 and 2	0.537	n/a
138365	Calpine	Gas	Unit 1	0.200	n/a
147709	Valleyview	Gas	Unit 1	0.496	n/a

Table 2: Units Not Required To Have A Baseline Emission Rate

EPEA Approval	Facility	Type	Unit	NOx (kg/MWh)	SO2 (kg/MWh)
1395	Rossdale	Gas	Unit 8, 9 & 10	n/a	n/a
10323	Wabamun	Coal	Unit 1, 2 and 3	n/a	n/a
11279	Cancarb	Gas	Unit 1	n/a	n/a
11461	U of A	Gas	All units	n/a	n/a
50096	Gold Creek	Gas	Unit 1 and 2	n/a	n/a
48325	Fort Sask	Cogen	Unit 1	n/a	n/a
149007	AES Calgary	Not built	Unit 1 and 2	n/a	n/a
152640	Altek Ft MacLeod	Not built	Unit 1	n/a	n/a

Table 3: Baseline Emission Rates Being Reviewed By Alberta Environment

EPEA Approval	Facility	Type	Unit	NOx (kg/MWh)	SO2 (kg/MWh)
77375	Shell Scotford	Cogen	Unit 1	TBA	n/a
136951	Redwater	Cogen	Unit 1	TBA	n/a
151812	Bear Creek	Cogen	Unit 1	TBA	n/a
155746	Mackay River	Cogen	Unit 1	TBA	n/a

TBA – to be announced

Table 4: Baselines Established As of March 20, 2009*

EPEA Approval	Facility	Type	Unit	NOx (kg/MWh)	SO2 (kg/MWh)
68179	AL Scotford	Cogen	Unit 1	0.200	n/a
11718	Rainbow Lake	Gas	Unit 1	5.118	n/a
11718	Rainbow Lake	Gas	Unit 2	5.330	n/a
11718	Rainbow Lake	Gas	Unit 3	5.428	n/a
69209	Rainbow Lake	Cogen	Unit 4	1.216	n/a
69209	Rainbow Lake	Gas	Unit 5	0.634	n/a
73899	Muskeg	Cogen	Unit 1	0.200	n/a
73899	Muskeg	Cogen	Unit 2	0.200	n/a
136681	Carseland	Cogen	Unit 1	0.200	n/a
136681	Carseland	Cogen	Unit 2	0.200	n/a
11610	Medicine Hat	Gas	Unit 8	2.140	n/a
11610	Medicine Hat	Gas	Unit 10	2.850	n/a
11610	Medicine Hat	Gas	Unit 11	2.080	n/a
11610	Medicine Hat	Gas	Unit 14	0.204	n/a
138365	Calgary Energy Centre	Gas (3 year)	Unit 1	0.200	n/a

* These baselines were publicly posted as "interim baselines" on December 5, 2008 for 45 days public review. No public comments were received on these baselines.

Table 5: Credits To Be Issued

EPEA Approval	Facility		Type	Year	SO2 (tonnes)	NOx (tonnes)	Director Decision
138365	Calgary Energy Centre	Unit 1	Baseline	2006	n/a	51	Issue
138365	Calgary Energy Centre	Unit 1	Baseline	2007	n/a	22	Issue
9814	Milner	Unit 1	Baseline	2006	2417	396	Pending
1512	Battle River	Unit 3&4	Baseline	2006	363	907	Issue
1512	Battle River	Unit 3&4	Baseline	2007	303	982	Issue
1512	Battle River	Unit 5	Baseline	2006	987	1035	Issue
1512	Battle River	Unit 5	Baseline	2007	1854	1280	Issue
773	Genesee	Unit 1	Baseline	2006	848	576	Issue
773	Genesee	Unit 1	Baseline	2007	794	1124	Issue
773	Genesee	Unit 2	Baseline	2006	799	543	Issue
773	Genesee	Unit 2	Baseline	2007	819	1160	Issue
773	Genesee	Unit 3	Baseline	2006	-	2236	Issue
773	Genesee	Unit 3	Baseline	2007	-	2255	Issue
				Total	9184	12567	

Table 6: Director's Decisions On Incomplete Credit and Baseline Applications

EPEA Approval	Facility / Issue	Director's Decisions
238762	Northern Grande Prairie Power Unit 1	An incomplete baseline application was received. The complete baseline application is due to Alberta Environment by December 31, 2009.
11610	Medicine Hat units 10R and 11R.	An incomplete baseline application was received. The complete baseline applications must be submitted by December 31, 2009.
1391	Cloverbar Unit 1	An incomplete baseline application was received. The complete baseline application must be submitted by December 31, 2009
68179 11718 69209 73899 136681 11610	AL Scotford Unit 1 Rainbow Lake Units 1-3 Rainbow Lake Units 4-5 Muskeg Units 1 and 2 Carseland Units 1 and 2 Medicine Hat Units 8, 10, 11, 14.	Incomplete credit applications were received for these units. These units can complete their applications for 2006 credits anytime prior to December 31, 2009. If an application is not receive then the opportunity to apply for 2006 credits expires.
77375 136951 155746 151812	Shell Redwater MacKay River Bear Creek	Incomplete credit applications were received for these units. These units can apply for 2006 credits within 3 months of establishment of baselines or the opportunity to apply for 2006 credits expires.
147709	Valleyview Unit 2	Unit operator is to submit a baseline emission intensity rate according to Section 21(1)(e). ATCO was granted an approval for unit 2 in 2001. The original second unit for Valleyview was sent to Rainbow Lake at the request of the Alberta Electricity System Operator.
1391 238762 11610 68179	Cloverbar Grande Prairie Medicine Hat (10R, 11R) Air Liquide	These units must submit applications for Trading Account as required in the regulation.
238762 11610 11610 1391 68179 77375 136951 155746 151812 147709	Northern Grande Prairie unit 1 Medicine Hat units 8, 10, 11, 14 Medicine Hat units 10R, 11R Cloverbar unit 1 AL Scotford Shell Redwater MacKay River Bear Creek Valleyview	These units must apply for baselines. These units must submit annual reports. Where baselines have not been approved, annual reports will have to be resubmitted if the approved baseline changes data for the reporting year.
773	Genesee Unit 3	The third party verification for the 2006 and 2007 credit applications qualifies as the verification for the EPCOR's 2006 baseline application for unit 3.

Table 7: Director's Policy and Operational Decisions

EPEA Approval	Facility / Issue	Director's Decisions
All	Adjusting emissions for CEMS availability	<p>Facilities can use the monthly CEMS availability reported in their monthly or annual reports in accordance with approval requirements and according to the CEMS Code (1998).</p> <p>Alternatively, CEMS availability can be adjusted so that periods when the analyzer is calibrating (i.e. the unit is not out of control) are counted as times when the unit is offline. In the CEMS Code, calibration periods are not considered offline periods.</p> <p>Whichever method is used, the CEMS availability must be calculated the same way for baseline applications, credit applications and annual reports.</p> <p>The baseline template that Alberta Environment provided for historical baseline calculations assumes CEMS calibration periods were offline periods. Unit operator could have changed this relationship in their applications.</p>
All	Validation of additional information or re-submitted baseline or credit applications.	The Director decides whether additional or re-submitted information needs to be third party verified. Contact Alberta Environment if you are providing additional or re-submitting information and are unsure whether it needs to be third-party verified.
All	Validation of new baselines which are established in regulation.	New units must third party verify their baseline applications and include in the application at least one month's data used in a sample calculation of the emission intensity.
All	Credit applications	Credit applications must include an explanation of how the credits were created.

May 20, 2009

Dear unit operators (see Table A):

Table 1 lists units whose baselines emission rates begin 45-days public review as of the date of this letter. The applications are available on Alberta Environment's website at:

<http://environment.alberta.ca/1374.html> (see FTP site link)

Comments and questions can be sent to emissiontrading@gov.ab.ca.

Table 2 lists emission credits to be issued. The credits are issued when the Registry Operator assigns a serialized and unique identifier.

Table 3 lists baselines established.

If you have questions regarding this letter please contact me at (780) 427-2234 or Keith.Leggat@gov.ab.ca.

Sincerely,



Keith Leggat 
Director, Climate Change, Air, Land and Policy Branch
Alberta Environment

Copies: Registry Operator
Alberta Environment Industrial Approval Coordinators (Table A)

Table A: Unit Operators (Addresses) and Approval Coordinators (Copies)

EPEA Approval	Facility	Unit Operator	Alberta Environment Industrial Approval Coordinator
77375	Shell Scotford	Ouellet, Moe	Julie Norwig
9814	Milner	Rob Watson	Jennifer Keturakis
136951	Redwater	Schulz, Jason	Albert Liu
151812	Bear Creek	Schulz, Jason	Jennifer Keturakis
155746	Mackay River	Schulz, Jason	Parmjit Singh
773	Genesee	Fyhn, Kelly	Steve Cook

**Table 1:
Baseline Emission Rates Being Publicly Posted**

EPEA Approval	Facility	Type	Unit	Intensity NOx (kg/MWh)	Proposed Baseline NOx (kg/MWh)
77375	Shell Scotford	Cogen	Unit 1	0.3120	0.3120
136951	Redwater	Cogen	Unit 1	0.1895	0.2
151812	Bear Creek	Cogen	Unit 1	0.2811	0.2811
155746	Mackay River	Cogen	Unit 1	0.1301	0.2

Table 2: Credits To Be Issued

EPEA Approval	Facility	Type	Year	SO2 (tonnes)	NOx (tonnes)	
138365	Calgary Energy Centre	Unit 1	Baseline	2008	n/a	34
9814	Milner	Unit 1	Baseline	2006	2417	396

Table 3: Baselines Established

EPEA Approval	Facility	Type	Unit	SO2 (tonnes)	NOx (tonnes)
773	Genesee	Coal	Unit 3	0.80	1.18

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Climate Change, Air, and
Land Policy
Oxbridge Place 10th Floor
9820 – 106 Street
Edmonton, Alberta
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Telephone: 780-427-2234
www.alberta.ca

July 1, 2009

Dear unit operators (see Table A):

Subject: Alberta's NO_x and SO₂ Emissions Trading for the Power Sector

Tables 1 and 2 list units whose baselines emission rates were posted on May 20th, 2009 for a 45-days public review. Baselines for units in Table 1 are now established.

The baseline for the unit in Table 2 is granted an interim baseline. The unit operator can only generate credits from this baseline if the operator provides clarifying information including but not limited to the following:

- natural gas consumption on site;
- labels for the application data that match the process diagram; and,
- total energy content of:
 - the high pressure steam sent to turbine from host;
 - the condensate and steam sent to HRSG from host; and,
 - the volume of steam and condensate sent to host.

The Director may ask for further clarification of the emission intensity and baseline intensity calculations – as well as any other information he requires – to assess any credit application.

For all operators, emission-intensity-calculation methods established for the *Emissions Trading Regulation* may not be valid for future compliance with the *Air Emission Standard For Electricity Generators (2006)* and subsequent updates to that *Standard*.

Table 3 lists deadlines for specific facilities. The table clarifies errors in the Director's letter of March 23, 2009.

If you have questions regarding this letter, please contact Stephen Dobson (780 427 6439) or me.

Yours truly, _____

Keith Leggat _____
Director, Climate Change, Air, Land and Policy Branch
Alberta Environment

Copies: Registry Operator
Alberta Environment Industrial Approval Coordinators (Table A)

Table A: Unit Operators (Addresses) and Approval Coordinators (Copies)

EPEA Approval	Facility	Unit Operator	Alberta Environment Industrial Approval Coordinator
9830	Sundance	Brandt, Kent	Steve Cook
10323	Wabamun	Brandt, Kent	Steve Cook
10324	Keephills	Brandt, Kent	Steve Cook
136858	Balzac	Brown, Brandon	Joseph Feehan
138365	Calgary Energy Centre	Corbin, David	Joseph Feehan
136385	Cavalier	Doumonceau, Terry	Joseph Feehan
773	Genesee	Fyhn, Kelly	Steve Cook
1391	Cloverbar	Fyhn, Kelly	Doug Wong
77375	Shell Scotford	Ouellet, Moe	Julie Norwig
9814	Milner	Rob Watson	Jennifer Keturakis
136681	Carseland	Schulz, Jason	Weigo Wu
136951	Redwater	Schulz, Jason	Albert Liu
151812	Bear Creek	Schulz, Jason	Jennifer Keturakis
155746	Mackay River	Schulz, Jason	Parmjit Singh
68179	AL Scotford	Tardiff, Anne	Angela Ryan
11610	Medicine Hat	Teske, David	Susan McIntosh
123	Sheerness	Papsdorf, Kristie	Matt Haghghi
1512	Battle River	Papsdorf, Kristie	Robert Pole
11718	Rainbow Lake	Papsdorf, Kristie	Jennifer Keturakis
67774	Poplar Hill	Papsdorf, Kristie	Jennifer Keturakis
73899	Muskeg	Papsdorf, Kristie	Mohammad Habib
147709	Valleyview	Papsdorf, Kristie	Jennifer Keturakis
238762	Grand Prairie	Sanford, Tammy	Jennifer Keturakis
246216	Crossfield	Balderson, Daryl	Matt Haghghi

Table 1: Baseline Emission Rates Established

EPEA Approval	Facility	Type	Unit	Intensity NOx (kg/MWh)	Proposed Baseline NOx (kg/MWh)
77375	Shell Scotford	Cogen	Unit 1	0.3120	0.3120
136951	Redwater	Cogen	Unit 1	0.1895	0.2
155746	Mackay River	Cogen	Unit 1	0.1301	0.2

Table 2: Interim Baseline Emission Rates Established

EPEA Approval	Facility	Type	Unit	Intensity NOx (kg/MWh)	Proposed Baseline NOx (kg/MWh)
151812	Bear Creek	Cogen	Unit 1	0.2811	0.2811

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Division: Environmental Assurance
Air, Land and Strategic Policy Branch
10th Floor, 9820 – 106 Street
Edmonton, Alberta T5K 2J6
Canada
Telephone: 780/427-6210
www.alberta.ca

April 9, 2010

Amended April 20th, 2010 by ~~Stephen Johnson~~

The baselines in Table 1 are established and the credits in Table 3 are issued. I am waiting for additional information regarding the applications in table 2 and 4.

Please send any questions or comments to emissiontrading@gov.ab.ca.

Keith Leggat
Director
Air, Land and Strategic Policy Branch
Alberta Environment

Table 3: Deadline Clarifications (Supplemental To Regulation)

EPEA Approval	Facility	Application	Company Action
238762 11610 1391 147709	Grand Prairie Medicine Hat units 10R, 11R Clover Bar Unit 1 Valleyview Unit 2	Baseline	Due Dec. 31, 2009
68179 11718 69209 73899 136681 11610	AL Scotford Unit 1 Rainbow Lake Units 1-3 Rainbow Lake Units 4-5 Muskeg Units 1 and 2 Carseland Units 1 and 2 Medicine Hat Units 8/10/11/14.	2006 credit applications	Due Dec. 31, 2009 if a unit operator wants to apply for 2006 credits
77375 136951 155746 151812	Shell Scotford Redwater MacKay River Bear Creek	2006 credit application	Due 3 months after Director signs this letter or Dec. 31, 2009
11610 68179 77375 136951 155746 151812	Medicine Hat units 10R, 11R AL Scotford Shell Scotford Redwater MacKay River Bear Creek	2006 Annual reports	Due March 31, 2010
11610 68179 77375 136951 151812 155746	Medicine Hat 8/10R/11R/14 AL Scotford Shell Scotford Redwater Bear Creek MacKay River	2007 Annual Report	Due March 31, 2010
1391 11610 147709	Cloverbar unit 1 Medicine Hat 8/10R/11R/14 Valleyview	2008 Annual Report	Due March 31, 2010
246216 238762	Crossfield Grand Prairie	2009 annual report	Due March 31, 2010
246216	Crossfield	Baseline application	Due March 31, 2010
246216 238762 11610	Crossfield Grand Prairie Medicine Hat	Trading account	Due January 1 2010

Table A: Addressees

Unit Operator's Contact	EPEA Approval	Facility
Balderson, Daryl	246216	Crossfield
Brandt, Kent	9830	Sundance
Brandt, Kent	10323	Wabamun
Brandt, Kent	10324	Keephills
Brown, Brandon	136858	Balzac
Balderson, Daryl	138365	Calgary Energy Centre
Dumonceau, Terry	136385	Cavalier
Fyhn, Kelly	773	Genesee
Ouellet, Moe	77375	Shell Scotford
Papsdorf, Kristie	123	Sheerness
Papsdorf, Kristie	1512	Battle River
Papsdorf, Kristie	11718	Rainbow Lake
Papsdorf, Kristie	67774	Poplar Hill
Papsdorf, Kristie	73899	Muskeg
Papsdorf, Kristie	147709	Valleyview
Rob Watson	9814	Milner
Salacki, Leonard	238762	Northern Prairie Power
Schulz, Jason	136681	Carseland
Schulz, Jason	136951	Redwater
Schulz, Jason	151812	Bear Creek
Schulz, Jason	155746	Mackay River
Tardiff, Anne	68179	Air Liquide Scotford
Teske, David	11610	Medicine Hat
cc		Alberta Environment approval writers

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Air, Land and Waste Branch
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Telephone: 780/427-6210
www.alberta.ca


May 05, 2011

Leonard Selacki
Constellation Power
leonard.Salacki@constellation.com
(by email)

A baseline emission rate of 0.20 kilograms of nitrogen oxides per megawatt hour is established for the generation unit managed by the unit operator and approval holder for the *Environmental Protection and Enhancement Act* approval 238762. The unit is known as Northern Prairie Power Project. The baseline emission rate is established according to the *Emissions Trading Regulation (Alberta Regulation 33 / 2006)*.

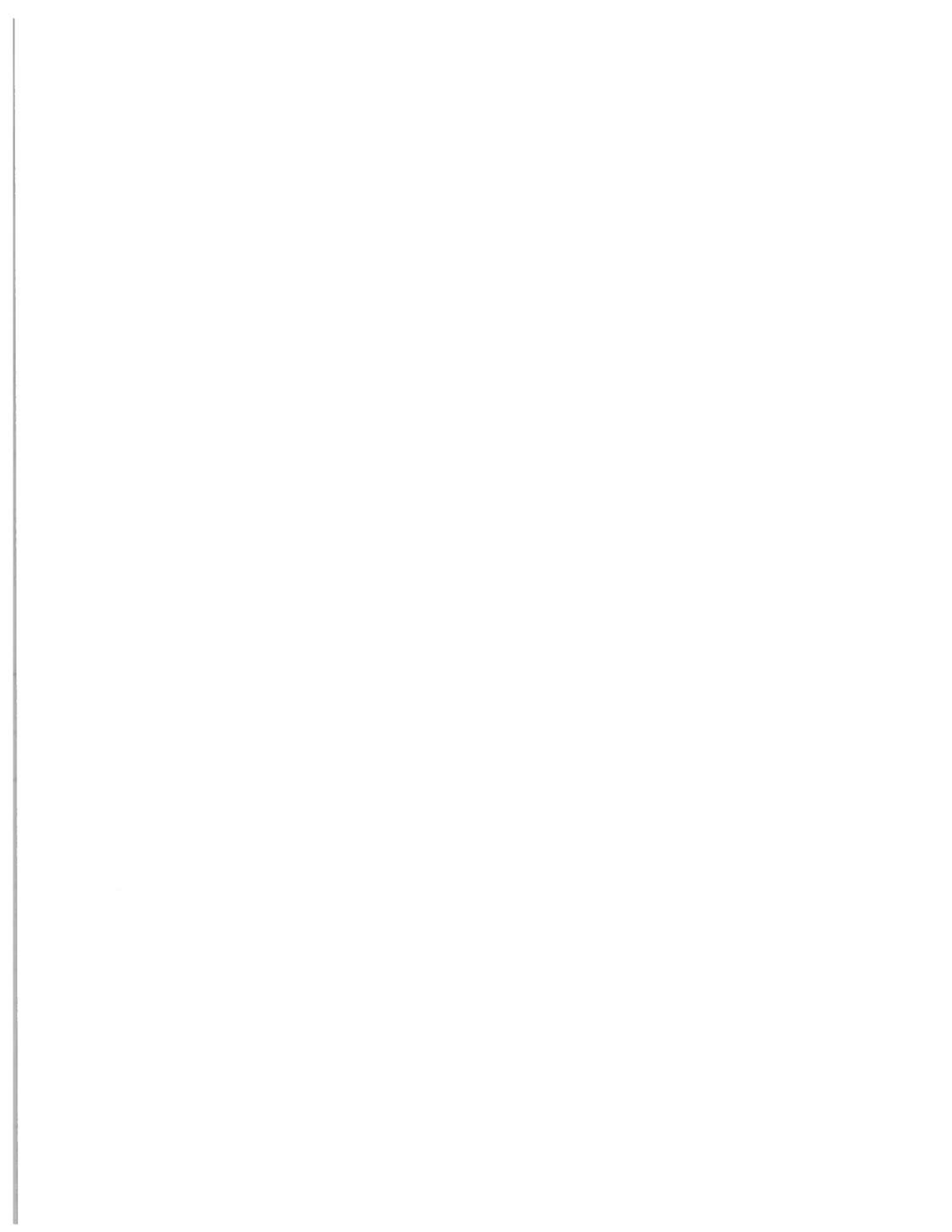
For the purposes of the Emissions Trading Regulation, the unit operator is to address missing data using a method documented in their *Continuous Emissions Monitoring Code (1998 as amended) Quality Assurance Plan* and as approved by Alberta Environment's Monitoring and Science Director.

Please send any questions or comments to emissiontrading@gov.ab.ca.



Kem Singh
Director
Air, Land and Waste Branch
Policy Division
Alberta Environment

Copies:
Emission Trading Registry Operator, Alberta Environment
Devon Dreger, Alberta Environment (by email)
Caroline Pfau, Alberta Environment (by email)
Julie Norwig, Alberta Environment (by email)
Jennifer Keturakis, Alberta Environment (by email)



Government of Alberta ■
Environment

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Canada
Telephone: 780/427-6210
www.alberta.ca

File: 60057-002_11_director_decisions

August 03, 2011

Dear Unit Operators in Table A:
(by email)

The credits in Table 1 are issued and the baselines in Table 1 are established according the *Emissions Trading Regulation*.

The Director does not accept bias adjustments done uniquely for the *Emissions Trading Regulation* to data collected according to the *Continuous Emissions Monitoring System Code (1998)*.

Please send any questions or comments to emissiontrading@gov.ab.ca.



Kern Singh
Director
Air, Land and Waste Branch
Policy Division
Alberta Environment

Copies:
Emission Trading Registry Operator, Alberta Environment
Approval writers in Table A (by email).

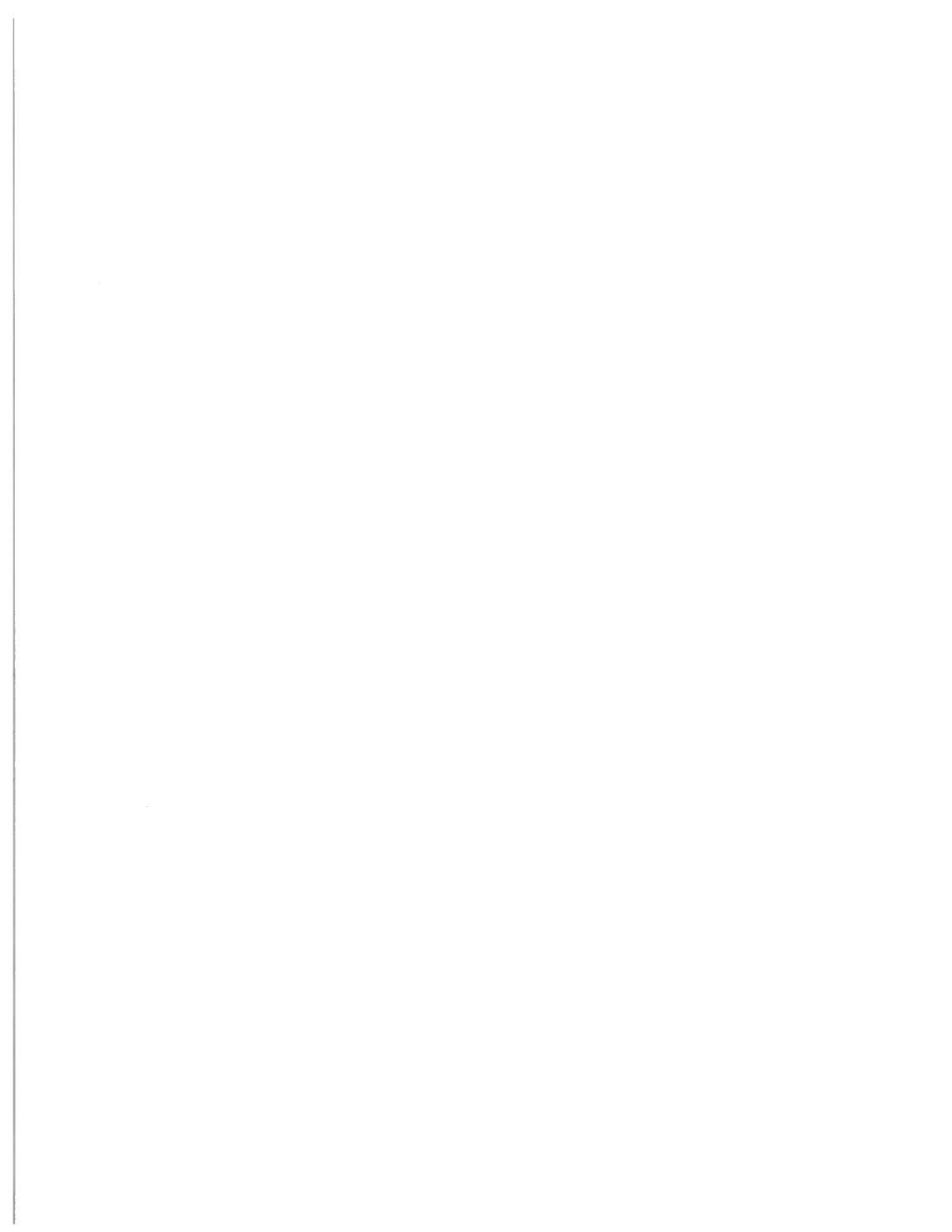


Table 1: Credits Issued and Baseline Established												
Approval	Company	Facility	Unit	2006 (tonnes)		2007 (tonnes)		2008 (tonnes)		2009 (tonnes)		Baseline (kg/MWh)
				NOx	SO2	NOx	SO2	NOx	SO2	NOx	SO2	
773	EPCOR	Genesee	Unit 1					863	1156	698	1043	
773	EPCOR	Genesee	Unit 2					863	1,156	743	1,110	
773	EPCOR	Genesee	Unit 3					1,771		2,321		
1391	Capital Power	Cloverbar	Unit 3									0.2
1512	ATCO	Battle River	Unit 3					468	81			
1512	ATCO	Battle River	Unit 4					412	71			
1512	ATCO	Battle River	Unit 5					1,411	1,387			
9814	Milner	Milner	Unit 1						1,878	569	2,445	
9830	TransAlta	Sundance	Unit 3						348			
9830	TransAlta	Sundance	Unit 4						383			
9830	TransAlta	Sundance	Unit 5						543			
9830	TransAlta	Sundance	Unit 6						566			
10323	TransAlta	Wabamum	Unit 4					223				
10324	TransAlta	Keephills	Unit 1					970				
10324	TransAlta	Keephills	Unit 2					891				
11610	City of Medicine Hat	Medicine Hat	Unit 8				94					
11610	City of Medicine Hat	Medicine Hat	Unit 10				7,719					
11610	City of Medicine Hat	Medicine Hat	Unit 11				5,652					
11610	City of Medicine Hat	Medicine Hat	Unit 14									0.239
11610	City of Medicine Hat	Medicine Hat	Unit 11DLE				3					
68179	Air Liquide	Air Liquide Scotford	Unit 1					46		44		
73899	ATCO	Muskeg 1	Unit 1									
73899	ATCO	Muskeg 2	Unit 2									
77375	Shell	Shell Scotford	Unit 1				83	113		120		
Total (tonnes)				203	13,548	8,031	7,569	4,496	4,598			

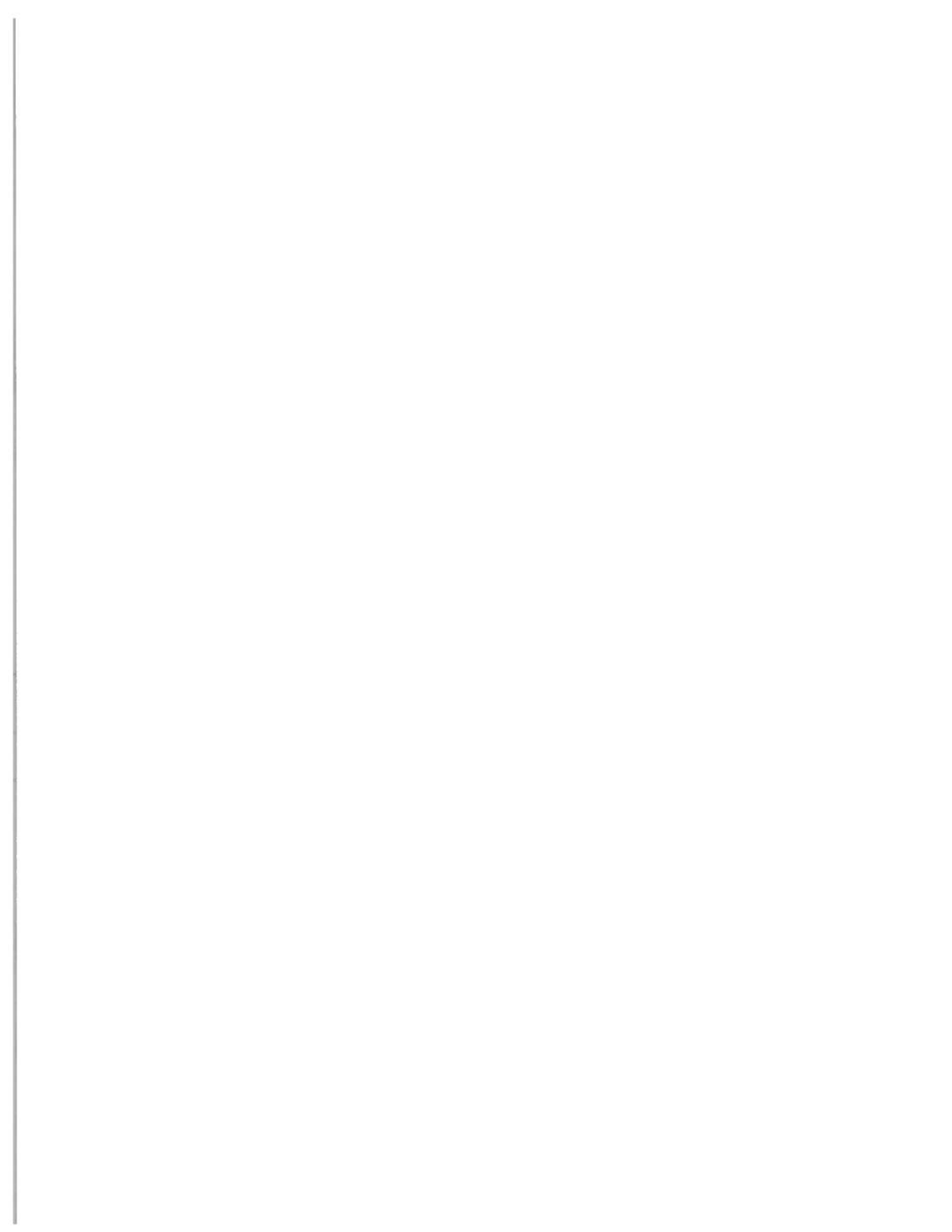
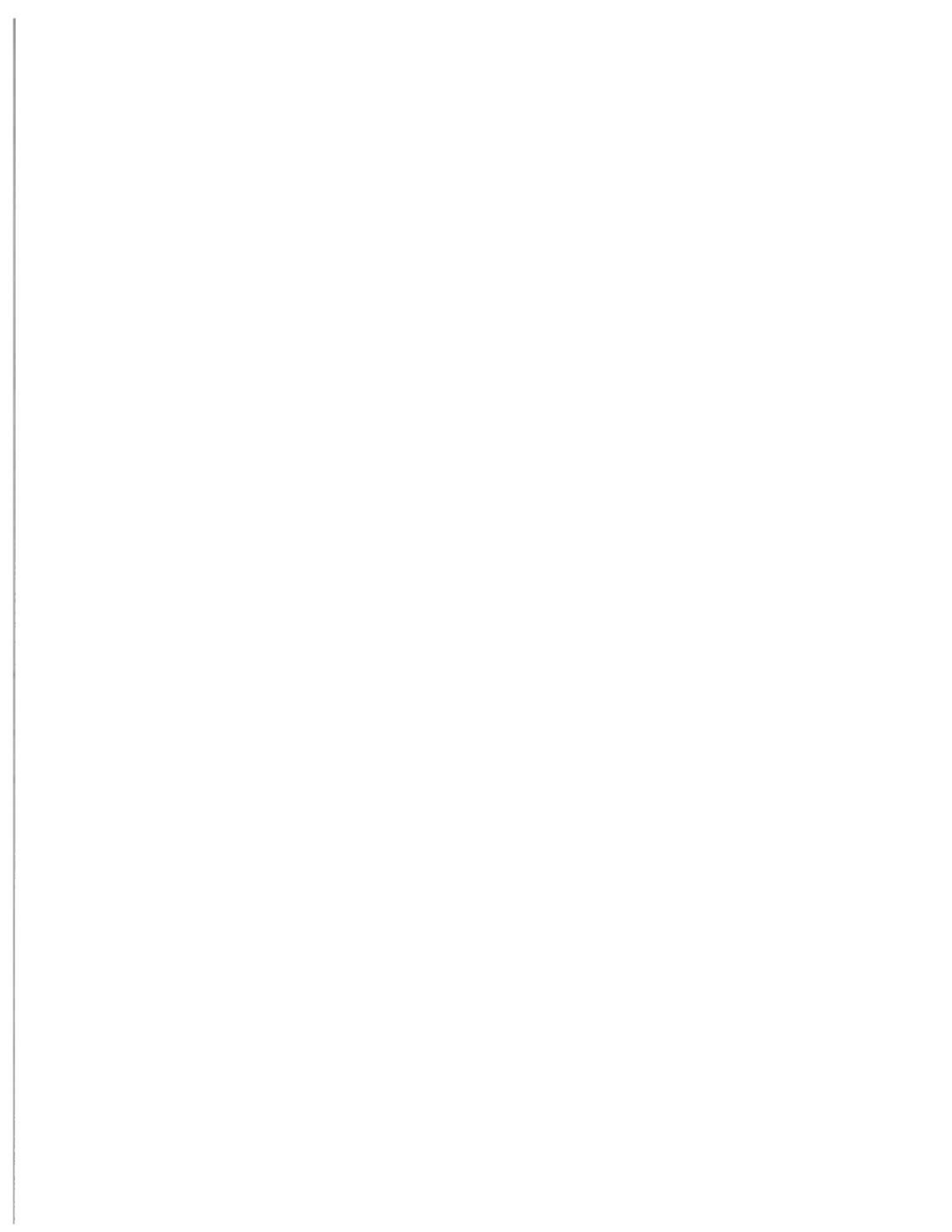


Table A: Addressees

Unit Operator's Contact	EPEA Approval	Facility	Alberta Environment Industrial Approval Coordinators
Papsdorf, Kristie	123	Sheerness	Matt Haghghi, Steve Cook, Robert Pole, Jennifer Keturakis, Susan McIntosh, Angela Ryan, Mohammad Habib, Julie Norwig, Joseph Feehan, Weigo Wu, Albert Liu, Parmit Singh, Carolyn Pfau.
Fyhn, Kelly	773	Genesee	
Fynn, Kelly	1391	Cloverbar	
Papsdorf, Kristie	1512	Battle River	
Rob Watson	9814	Milner	
Brandt, Kent	9830	Sundance	
Brandt, Kent	10323	Wabamun	
Brandt, Kent	10324	Keephills	
Susan Dyer	11610	Medicine Hat	
Papsdorf, Kristie	11718	Rainbow Lake	
Papsdorf, Kristie	67774	Poplar Hill	
Tardiff, Anne	68179	Air Liquide Scotford	
Papsdorf, Kristie	73899	Muskeg	
Ouellet, Moe	77375	Shell Scotford	
Dumonceau, Terry	136385	Cavalier	
Schulz, Jason	136681	Carseland	
Metz, Michael	136858	Balzac	
Schulz, Jason	136951	Redwater	
Balderson, Daryl	138365	Calgary Energy Centre	
Papsdorf, Kristie	147709	Valleyview	
Schulz, Jason	151812	Bear Creek	
Schulz, Jason	155746	Mackay River	
Salacki, Leonard	238762	Northern Prairie Power	
Balderson, Daryl	246216	Crossfield	



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www.alberta.ca


File: 60057-002_11_director_decisions

August 03, 2011

Dear Kristie Papsdorf, ATCO Power:
(by email)

The credits in Table 1 are issued according the *Emissions Trading Regulation*. The additional credits are issued due to an administrative error on the part of Alberta Environment in processing your application for 2006 credits for units 1 and 2 at Muskeg generation facility.

Please send any questions or comments to emissiontrading@gov.ab.ca.



Kem Singh
Director
Air, Land and Waste Branch
Policy Division
Alberta Environment

Copies:
Emission Trading Registry Operator, Alberta Environment
Jennifer Keturakis, Alberta Environment Approval Writer

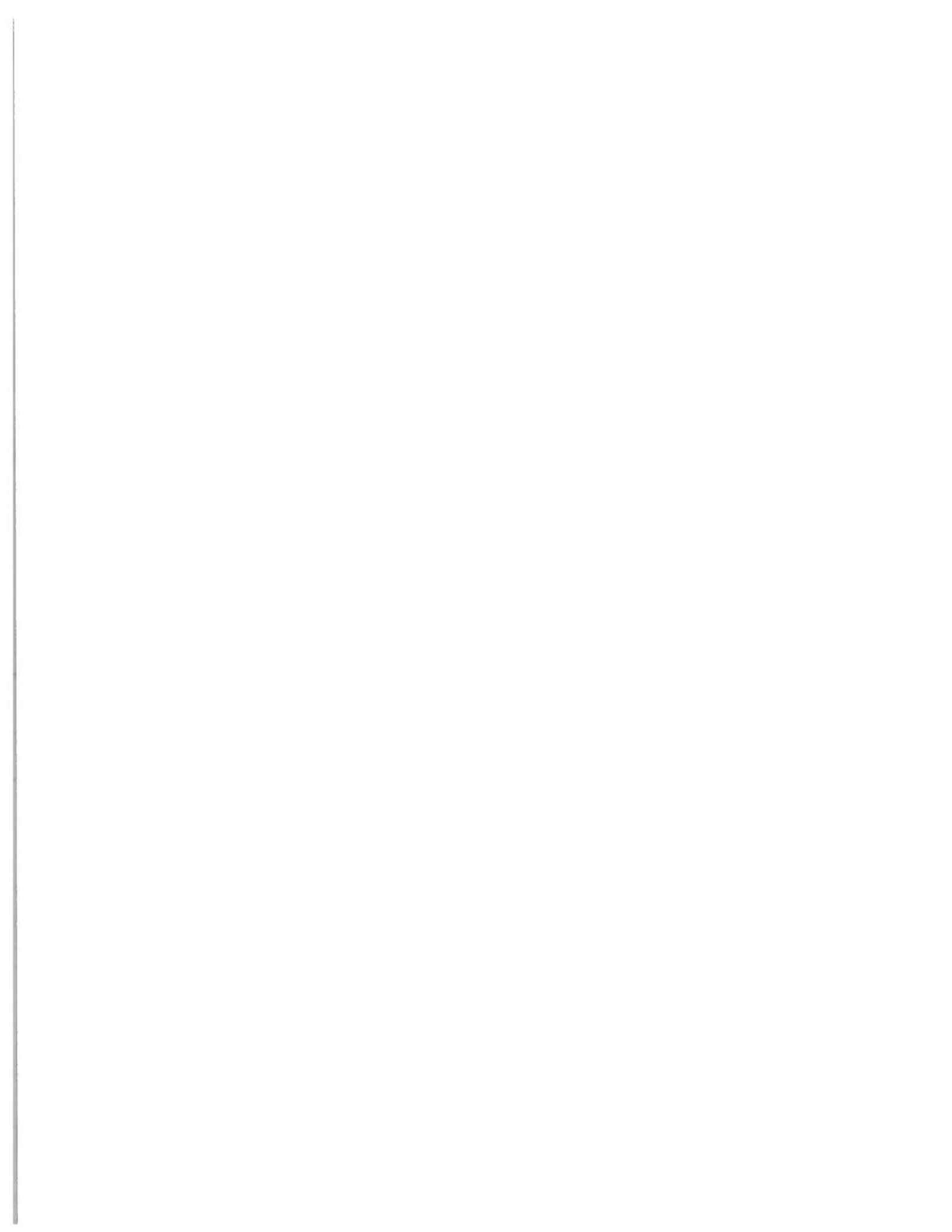
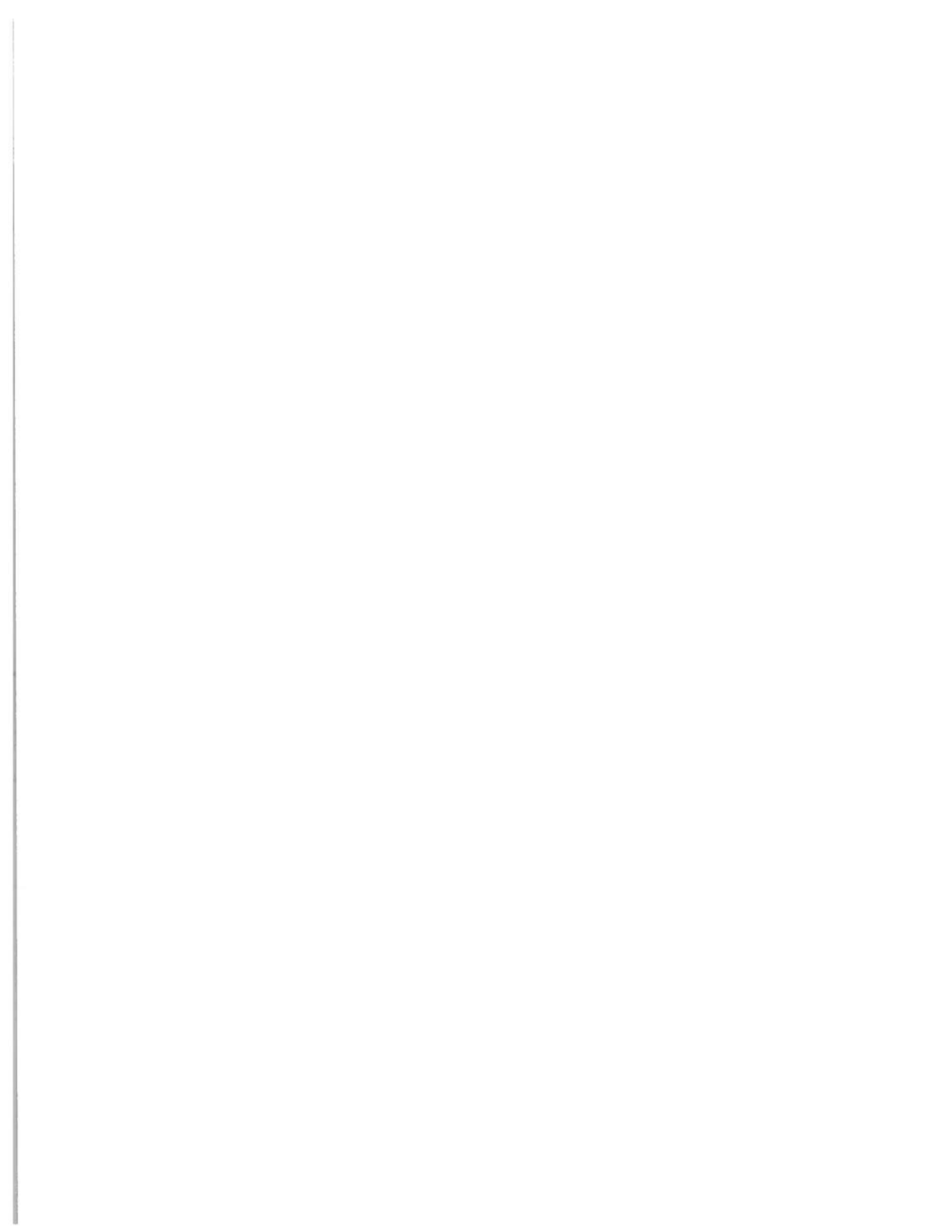


Table 1: Credits Issued and Baseline Established				2006 (tonnes)
Approval	Company	Facility	Unit	NOx
73899	ATCO	Muskeg 1	Unit 1	10
73899	ATCO	Muskeg 2	Unit 2	9
Total (tonnes)				19



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Environment

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File: 60057-002_11_director_decisions

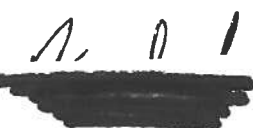
March 30, 2012

Dear Unit Operators in Table A:
(by email)

The credits in Table 1 are issued and the baseline in Table 1 is established according to the *Emissions Trading Regulation*.

ATCO made improvements to their monitoring system and emissions-intensity calculation method for Muskeg units 1 and 2 (EPEA 73899). Under the improved monitoring and calculation methodology, ATCO's total credits would change by a total of 1 credit over the years 2006, 2007 and 2008. ATCO does not need to re-verify the 2006, 2007 and 2008 credits. The additional credit will not be issued.

Please send any questions or comments to emissiontrading@gov.ab.ca.


Kem Singh
Director
Air, Land and Waste Branch
Policy Division
Alberta Environment

Copies:
Emission Trading Registry Operator, Alberta Environment
Approval writers in Table A (by email).

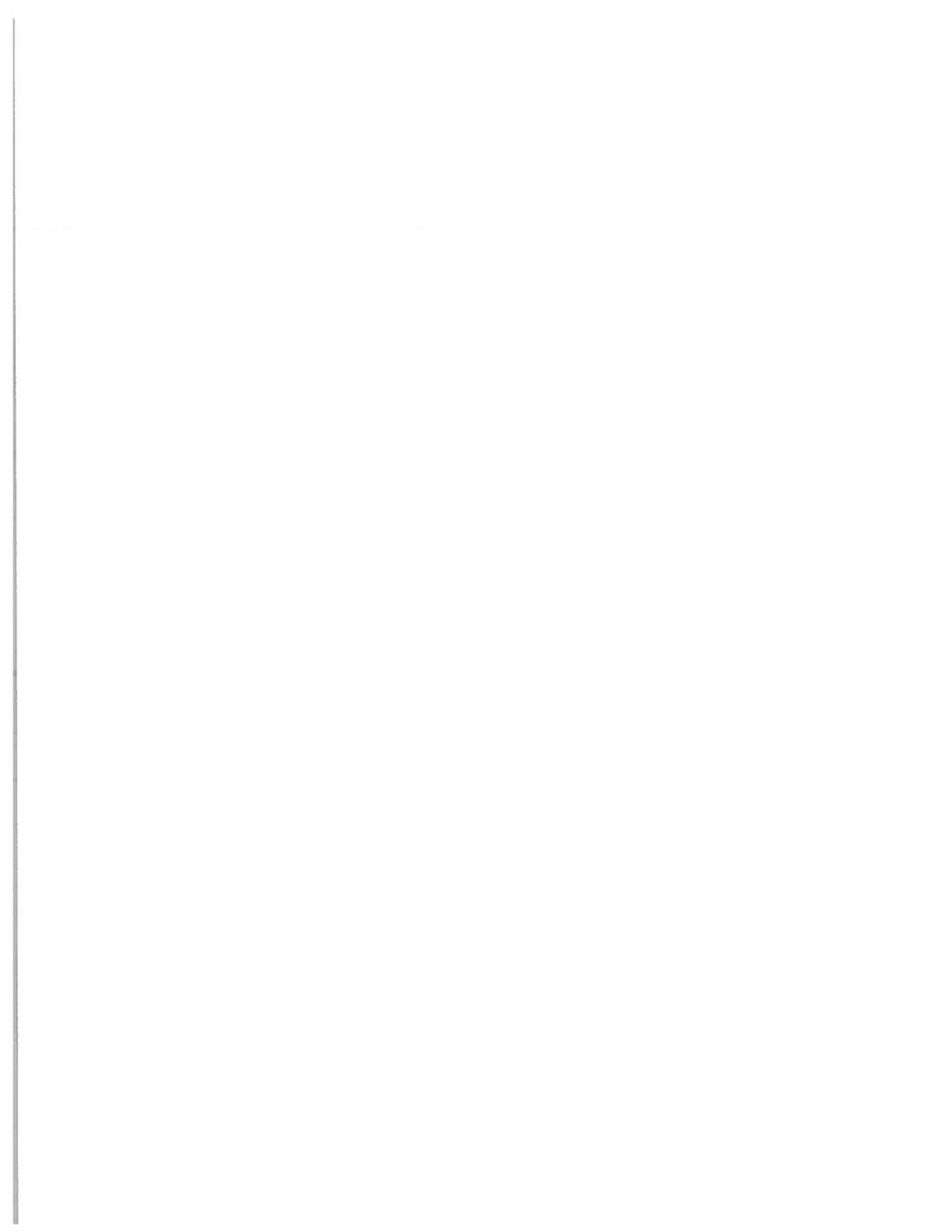


Table 1: Summary of Credit Applications

EPEA	Company	Facility	Unit	2009 NOx	2009 SO2	2010 NOx	2010 SO2	Baseline (kg/ MWh)
11610	City of Medicine Hat	Medicine Hat	Unit 15					0.3
1512	ATCO	Battle River	Unit 3	453		446		
1512	ATCO	Battle River	Unit 4	479		485		
1512	ATCO	Battle River	Unit 5	1,235	780	592	27	
9830	TransAlta	Sundance	Unit 3		207			
9830	TransAlta	Sundance	Unit 4		363			
9830	TransAlta	Sundance	Unit 5		56			
9830	TransAlta	Sundance	Unit 6		146			
10324	TransAlta	Keephills	Unit 2	45				
69209	ATCO	Rainbow Lake	Unit 4	239		281		
73899	ATCO	Muskeg 1	Unit 1	60		68		
73899	ATCO	Muskeg 2	Unit 2	63		59		
77375	Shell	Shell Scotford	Unit 1			114		
Total				2,574	1,552	2,045	27	

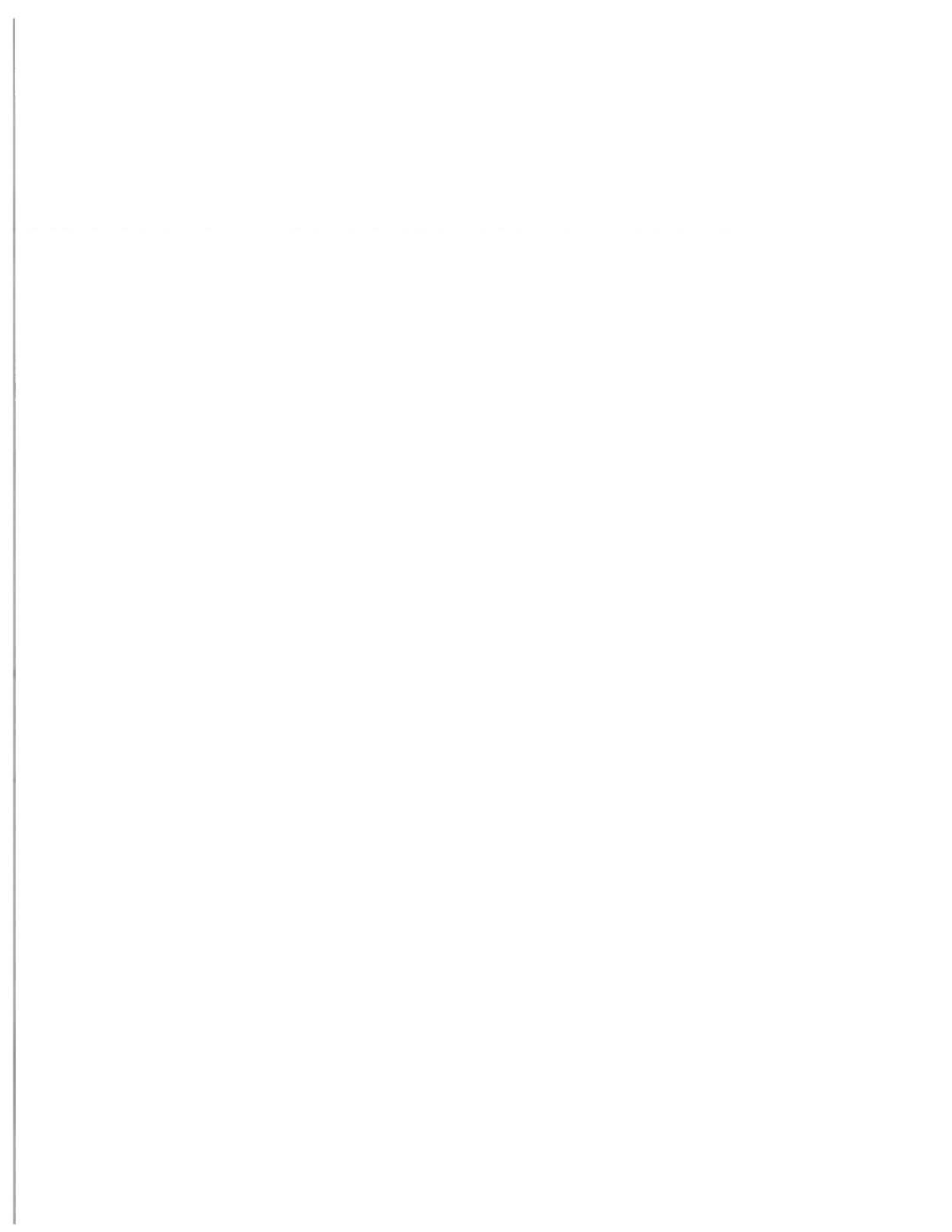
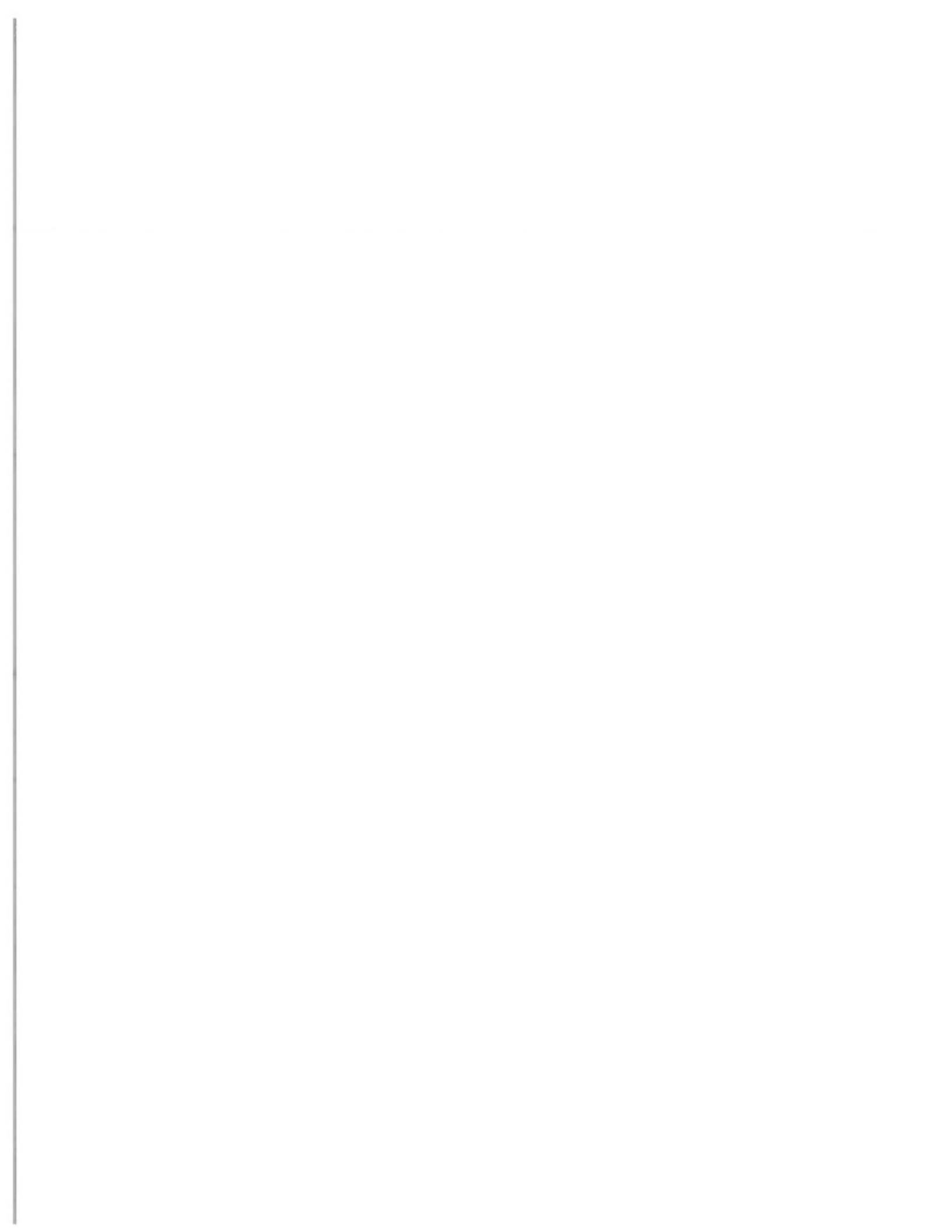


Table A: Addressees

Unit Operator's Contact	EPEA Approval	Facility	Alberta Environment Industrial Approval Coordinators
Tingley, Donna	123	Sheerness	Matt Haghghi, Steve Cook, Robert Pole, Jennifer Keturakis, Susan McIntosh, Mohammad Habib, Julie Norwig, Joseph Feehan, Weigo Wu, Albert Liu, Parmit Singh, Carolyn Pfau.
Chan, Casey	773	Genesee	
Chan, Casey	1391	Cloverbar	
Tingley, Donna	1512	Battle River	
Rob Watson	9814	Milner	
Brandt, Kent	9830	Sundance	
Brandt, Kent	10323	Wabamun	
Brandt, Kent	10324	Keephills	
Susan Dyer	11610	Medicine Hat	
Tingley, Donna	11718	Rainbow Lake	
Tingley, Donna	67774	Poplar Hill	
Tardiff, Anne	68179	Air Liquide Scotford	
Tingley, Donna	73899	Muskeg	
Ouellet, Moe	77375	Shell Scotford	
Dumonceau, Terry	136385	Cavalier	
Barass, Sara	136681	Carseland	
Metz, Michael	136858	Balzac	
Barass, Sara	136951	Redwater	
Balderson, Daryl	138365	Calgary Energy Centre	
Tingley, Donna	147709	Valleyview	
Barass, Sara	151812	Bear Creek	
Barass, Sara	155746	Mackay River	
Salacki, Leonard	238762	Northern Prairie Power	
Balderson, Daryl	246216	Crossfield	





Environment and Sustainable Resource Development

Policy Division
Air, Land and Waste Branch
10th Floor, 9820 – 106 Street
Edmonton, Alberta T5K 2J6
Canada
Telephone: 780/427-6210
www.alberta.ca

File: 60057-002_11_director_decisions

April 3, 2013

Dear Unit Operators in Table A (by email):

The credits in Table 1 are issued and the baselines in Table 1 are established according to the *Emissions Trading Regulation (Alberta Regulation 33/2006; Environmental Protection and Enhancement Act)*.

Please send any questions or comments to emissiontrading@gov.ab.ca.

A handwritten signature in black ink, which has been completely redacted with a thick black marker.

Kem Singh
Director
Air, Land and Waste Branch
Policy Division
Alberta Environment

Copies:
Emission Trading Registry Operator, Alberta Environment
Approval writers in Table A (by email).

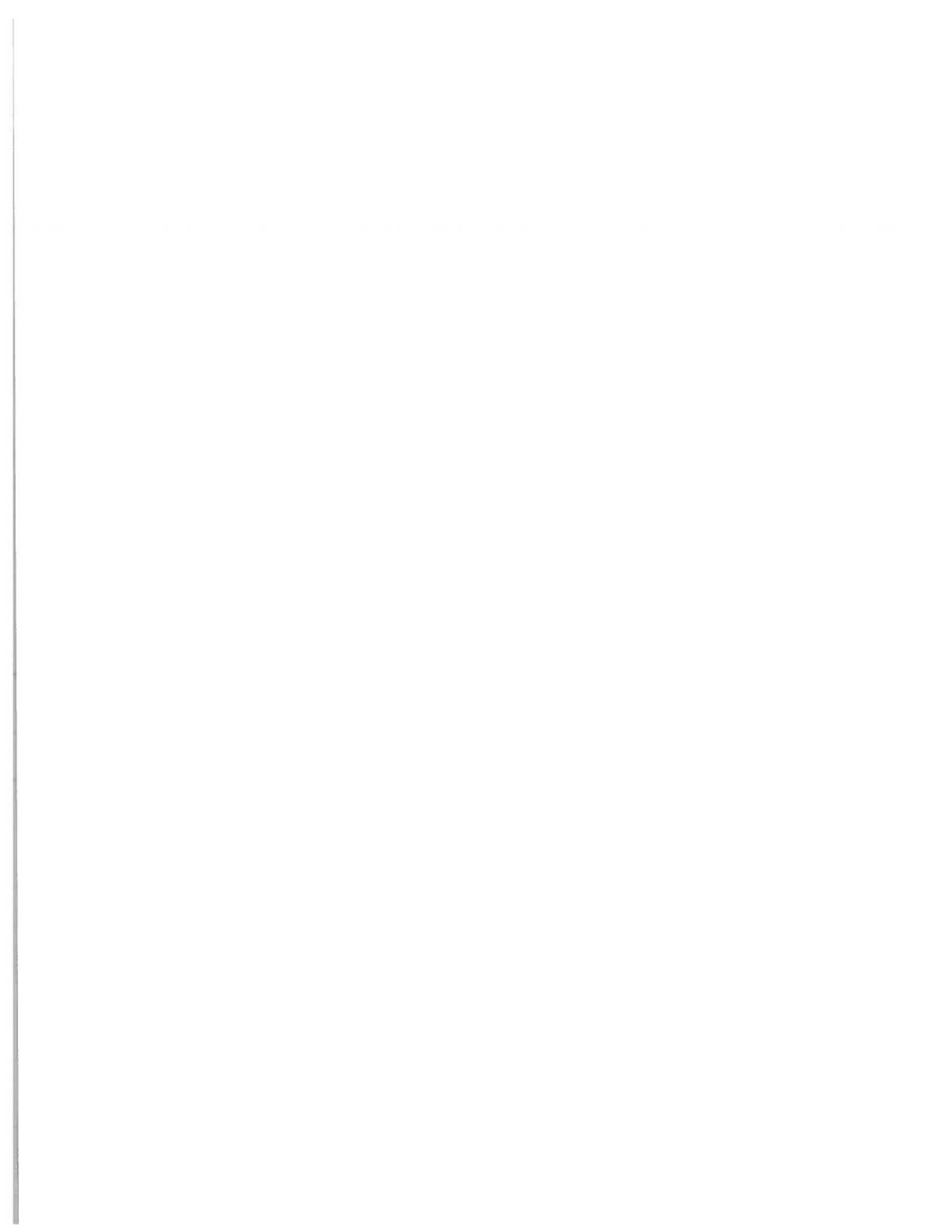


Table 1: Summary of Credits Issued and Baselines Established

Facility Name	EPEA Approval #	Unit #	NOx 2010 (tonnes)	SO2 2010 (tonnes)	NOx 2011 (tonnes)	SO2 2011 (tonnes)	NOx Baseline (kg/MWh)	SO2 Baseline (kg/MWh)
Genesee	773	1	826	787	360	514	-	-
Genesee	773	2	765	729	382	545	-	-
Genesee	773	3	1,916	0	1,972	0	-	-
Milner	9814	1	578	1,899	557	1,693	-	-
Sundance	9830	3	0	149	0	610	-	-
Sundance	9830	4	0	238	0	778	-	-
Sundance	9830	5	0	160	0	138	-	-
Sundance	9830	6	0	154	0	238	-	-
Keephills	10324	1	0	0	204	0	-	-
Keephills	10324	2	0	0	84	0	-	-
Keephills	10324	3	0	0	93	84	0.621	0.720
Rainbow lake	69209	4	0	0	230	0	-	-
Muskeg	73899	1	0	0	73	0	-	-
Muskeg	73899	2	0	0	69	0	-	-
Shell Scotford	77375	1	0	0	2	0	-	-
Calgary Energy centre	138365	1	89	0	0	0	-	-
Medicine Hat	11610	15	-	-	-	-	0.300	-
Valleyview	147709	2	-	-	-	-	1.886	-
Total			4,174	4,116	4,026	4,600	-	-

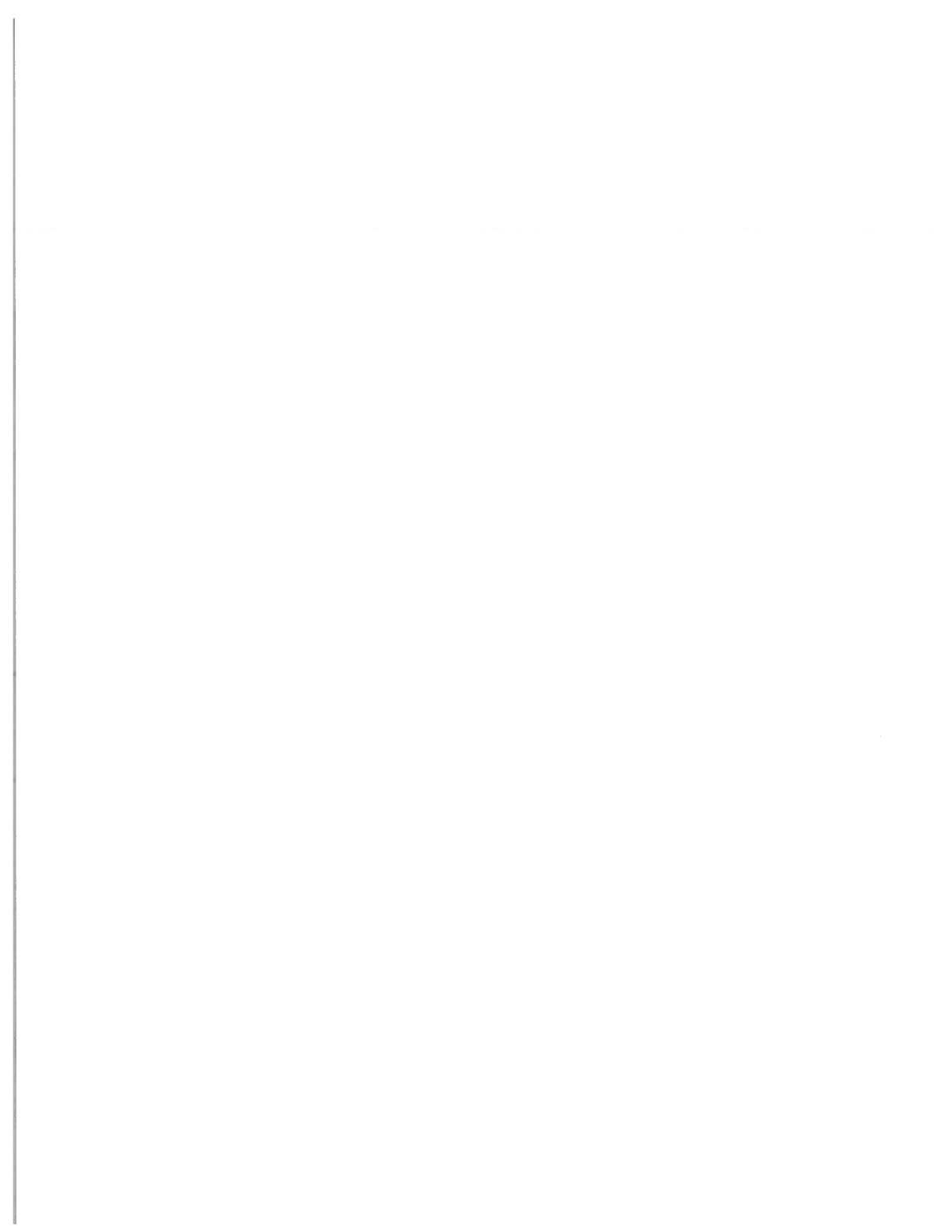
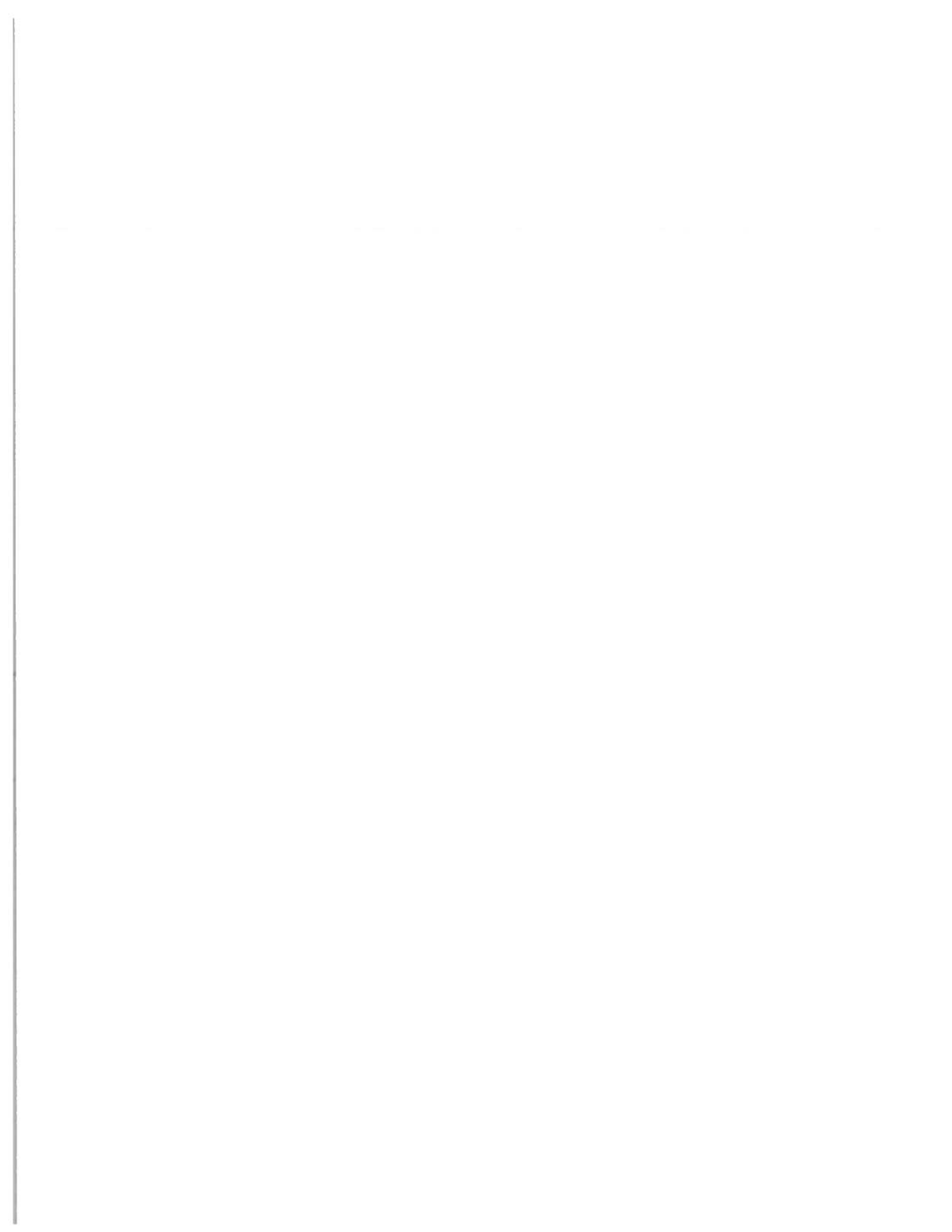


Table A: Addressees

Unit Operator's Contact	EPEA Approval	Facility	Alberta Environment Industrial Approval Coordinators
Tingley, Joan	123	Sheerness	Matt Haghghi, Steve Cook, Robert Pole, Susan McIntosh, Mohammad Habib, Joseph Feehan, Weigo Wu, Albert Liu, Parmit Singh, Carolyn Pfau.
Chan, Casey	773	Genesee	
Chan, Casey	1391	Cloverbar	
Tingley, Joan	1512	Battle River	
Rob Watson	9814	Milner	
Brandt, Kent	9830	Sundance	
Brandt, Kent	10323	Wabamun	
Brandt, Kent	10324	Keephills	
Susan Dyer	11610	Medicine Hat	
Tingley, Joan	11718	Rainbow Lake	
Tingley, Joan	67774	Poplar Hill	
Racicot, Marie-Helene	68179	Air Liquide Scotford	
Tingley, Joan	73899	Muskeg	
Ouellet, Moe	77375	Shell Scotford	
Dumonceau, Terry	136385	Cavalier	
Barss, Sara	136681	Carseland	
Metz, Michael	136858	Balzac	
Barss, Sara	136951	Redwater	
Balderson, Daryl	138365	Calgary Energy Centre	
Tingley, Joan	147709	Valleyview	
Barss, Sara	151812	Bear Creek	
Barss, Sara	155746	Mackay River	
Salacki, Leonard	238762	Northern Prairie Power	
Balderson, Daryl	246216	Crossfield	





Environment and Sustainable Resource Development

Policy Division
10th Floor, 9820 – 106 Street
Edmonton, Alberta T5K 2J6
Canada
Telephone: 780/427-6210
www.alberta.ca

File: 60057-002_11_director_decisions

March 27, 2014

Dear Unit Operators in Table A (by email):

The credits in Table 1 are issued and the baselines in Table 1 are established according to the *Emissions Trading Regulation (Alberta Regulation 33/2006; Environmental Protection and Enhancement Act)*.

Alberta Environment and Sustainable Resource Development undertook its standard annual review of applications as part of the credit approval process. Department staff noted errors in the applicant's information and in the auditors' review with respect to labelling of data and incomplete data checks for items 5.2 and 5.3 in the application form. Additionally, applicants are not completing item 1.a.4 and auditors are not noting this missing data. These errors are not deemed material in this decision letter because Department staff undertook the 5.2 and 5.3 data checks where there was improper labelling and inferred the 1.a.4 reasons from available information. The total number of credits requested this year is small. In the future, incomplete or erroneous applications may be returned to the applicant.

Please send any questions or comments to emissiontrading@gov.ab.ca.

A dark, horizontal redacted area, likely covering a signature or name.

Kem Singh
Director
Alberta Environment and Sustainable Resource Development

Copies:
Regional Approval Managers (by email)
Emission Trading Registry Operator, Alberta Environment

Table 1: Credits Issued

EPEA	Company	Facility	Unit	2011 NOx	2011 SO2	2012 NOx
1512	ATCO	Battle River	Unit 3	384	0	
1512	ATCO	Battle River	Unit 4	426		
1512	ATCO	Battle River	Unit 5	142	645	
11610	City of Medicine Hat	Medicine Hat	Unit 10DLE	6		3
11610	City of Medicine Hat	Medicine Hat	Unit 11DLE	7		6
11610	Medicine Hat	Medicine Hat	Unit 15	22		22
69209	ATCO	Rainbow Lake	Unit 4			237
73899	ATCO	Muskeg 1	Unit 1			77
73899	ATCO	Muskeg 2	Unit 2			68
136681	TransCanada	Carseland	Unit 1	19		23
136681	TransCanada	Carseland	Unit 2	9		7
136858	Nexen	Balzac	Unit 1	28		75
136951	TransCanada	Redwater	Unit 1	17		2
155746	TransCanada	Mackay River	Unit 1	87		94
			Total	1,147	645	614

Table A: Addressees

Unit Operator's Contact	EPEA Approval	Facility
Jessie Berzins	123	Sheerness
Chan, Casey	773	Genesee
Chan, Casey	1391	Cloverbar
Jessie Berzins	1512	Battle River
Rob Watson	9814	Milner
Brandt, Kent	9830	Sundance
Brandt, Kent	10323	Wabamun
Brandt, Kent	10324	Keephills
Susan Dyer	11610	Medicine Hat
Jessie Berzins	11718	Rainbow Lake
Jessie Berzins	67774	Poplar Hill
Amal El-Nahas	68179	Air Liquide Scotford
Jessie Berzins	73899	Muskeg
Ouellet, Moe	77375	Shell Scotford
Dumonceau, Terry	136385	Cavalier
Timothy Lam	136681	Carseland
Metz, Michael	136858	Balzac
Timothy Lam	136951	Redwater
Balderson, Daryl	138365	Calgary Energy Centre
Jessie Berzins	147709	Valleyview
Timothy Lam	151812	Bear Creek
Timothy Lam	155746	Mackay River
Salacki, Leonard	238762	Northern Prairie Power
Balderson, Daryl	246216	Crossfield



Environment and Sustainable Resource Development

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Edmonton, Alberta T5K 2J6
Canada
Telephone: 780/427-6210
www.alberta.ca

File: 60057-002_11_director_decisions

February 24, 2015

Dear Unit Operators in Table A (by email):

The credits in Table 1 are issued according the *Emissions Trading Regulation (Alberta Regulation 33/2006; Environmental Protection and Enhancement Act)*.

Alberta Environment and Sustainable Resource Development reviews credit applications for completeness. An operator submitting an incomplete application can be asked to provide supplemental information or the application can be returned. The following missing data was noted in this year's applications:

- One auditor failed to complete Sections 5.2 and 5.3 of the application form.
- Many operators did not complete item 1.a.4 of the application form.
- Applicants changed their missing data methodology to that of the 2012 CEMS Guide but the auditors did not note the change in their review of the applications.
- One applicant labelled their data with the wrong calendar year although the file was correctly labeled.

Please send any questions or comments to emissiontrading@gov.ab.ca.

Kem Singh
Director
Alberta Environment and Sustainable Resource Development

Copy:
Emission Trading Registry Operator, Alberta Environment and Sustainable Resource Development

Table 1: Credits Issued By This Letter

EPEA	Company	Facility	Unit	2012 Nox	2012 SO2	2013 NOx	2013 SO2
773	Capital Power	Genesee	Unit 12	1561	1581		
773	Capital Power	Genesee	Unit 3	1767			
773	Capital Power	Genesee	Unit 12			667	1407
773	Capital Power	Genesee	Unit 3			2251	
1512	ATCO	Battle River	Unit 3	166			
1512	ATCO	Battle River	Unit 4	166		38	
1512	ATCO	Battle River	Unit 5	15	420		
9814	Milner	Milner	Unit 1	706	2122		
9830	TransAlta	Sundance	Unit 1				259
9830	TransAlta	Sundance	Unit 2				196
9830	TransAlta	Sundance	Unit 3		276		362
9830	TransAlta	Sundance	Unit 4		353		400
9830	TransAlta	Sundance	Unit 5		486		314
9830	TransAlta	Sundance	Unit 6		508		295
10324	TransAlta	Keephills	Unit 1	783		350	
10324	TransAlta	Keephills	Unit 2	869	31	806	
10324	TransAlta	Keephills	Unit 3	217	163	295	
11610	City of Medicine Hat	Medicine Hat	Unit 10DLE			3	
11610	City of Medicine Hat	Medicine Hat	Unit 11DLE			7	
11610	City of Medicine Hat	Medicine Hat	Unit 15			35	
69209	ATCO	Rainbow Lake	Unit 4			239	
69209	ATCO	Rainbow Lake	Unit 5	21		26	
73899	ATCO	Muskeg 1	Unit 1			58	
73899	ATCO	Muskeg 2	Unit 2			60	
138365	Calgary Energy Centre	Calgary Energy Centre	Unit 1	163		125	
246216	Enmax	Crossfield	Unit 1	1		0	
246216	Enmax	Crossfield	Unit 2	7		13	
246216	Enmax	Crossfield	Unit 3	2		1	
Total Pending (tonnes)				6444	5940	4974	3233

Table A: Addressees

Unit Operator's Contact	EPEA Approval	Facility
Jessie Berzins	123	Sheerness
Chan, Casey	773	Genesee
Chan, Casey	1391	Cloverbar
Jessie Berzins	1512	Battle River
Rob Watson	9814	Milner
Brandt, Kent	9830	Sundance
Brandt, Kent	10323	Wabamun
Brandt, Kent	10324	Keephills
Keith Peddle	11610	Medicine Hat
Jessie Berzins	11718	Rainbow Lake
Jessie Berzins	67774	Poplar Hill
Amal El-Nahas	68179	Air Liquide Scotford
Jessie Berzins	73899	Muskeg
Ludmila Shustova	77375	Shell Scotford
Dumonceau, Terry	136385	Cavalier
Louise Edwards	136681	Carseland
Metz, Michael	136858	Balzac
Louise Edwards	136951	Redwater
Balderson, Daryl	138365	Calgary Energy Centre
Jessie Berzins	147709	Valleyview
Louise Edwards	151812	Bear Creek
Louise Edwards	155746	Mackay River
Salacki, Leonard	238762	Northern Prairie Power
Balderson, Daryl	246216	Crossfield



Environment and Parks

Policy and Planning Division
10th Floor, 9820 – 106 Street
Edmonton, Alberta T5K 2J6
Canada
Telephone: 780/427-6210
www.alberta.ca

File: 60057-002_11_director_decisions

March 17 2016

Dear Unit Operators in Table A (by email):

The credits in Table 1 are issued and the baselines established according the Emissions Trading Regulation (Alberta Regulation 33/2006; *Environmental Protection and Enhancement Act*).

Please send any questions or comments to emissiontrading@gov.ab.ca.



Kem Singh
Executive Director,
Policy and Planning Division
Emissions Trading Regulation's Section 1(1)(n) Director
Alberta Environment and Parks

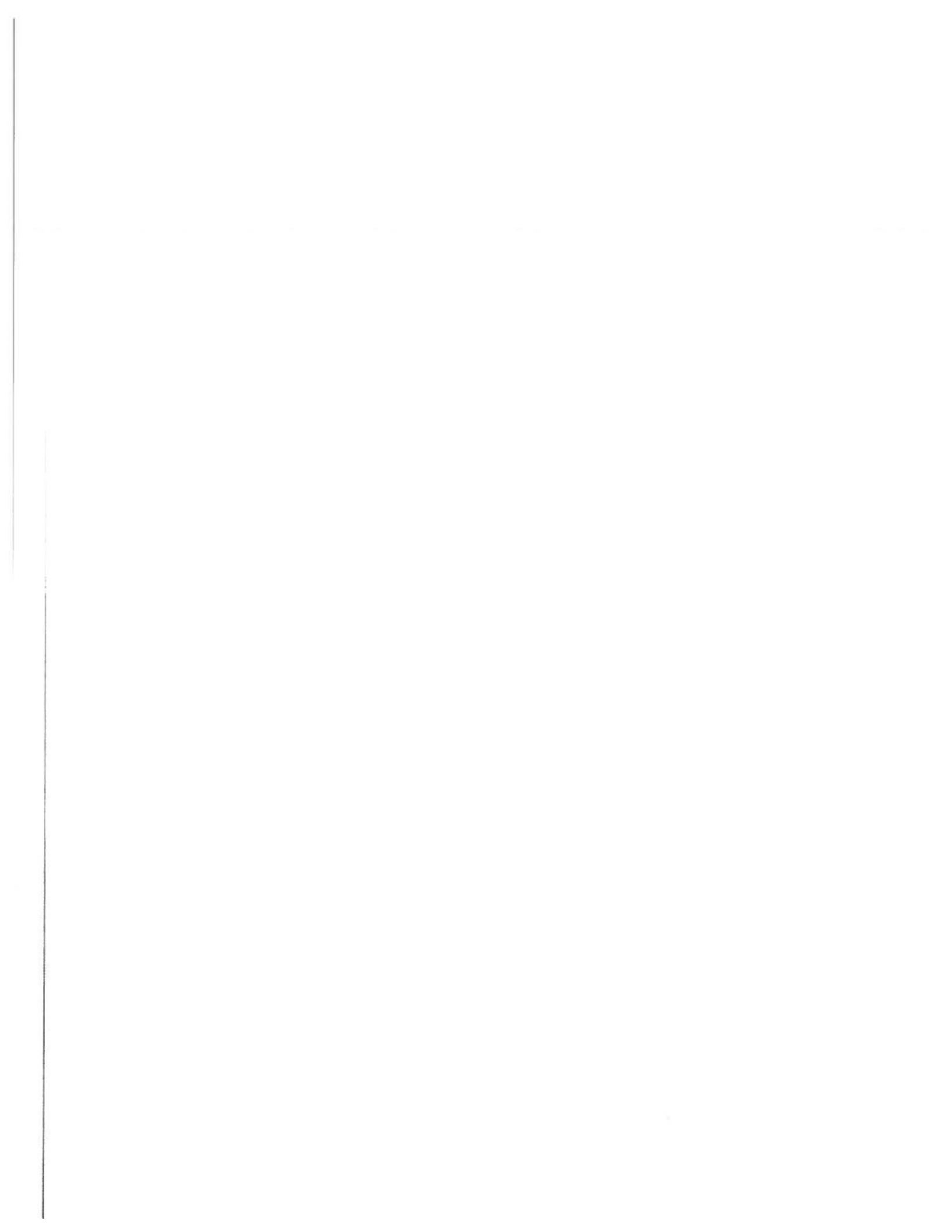
Copy:
Emission Trading Registry Operator, Alberta Environment and Parks

Table 1: Credits Issued and Baselines Established By This Letter

EPEA	Company	Facility	Unit	2013 NOx Credits	2013 SO2 Credits	2014 NOx Credits	Baseline (NOx kg/MWh)	Baseline (SO2 kg/MWh)
773	Capital Power	Genesee	Unit 3				0.621	0.8
11610	Medicine Hat	Medicine Hat	Unit 10DLE			3		
11610	Medicine Hat	Medicine Hat	Unit 11DLE			5		
69209	ATCO	Rainbow Lake	Unit 4			224		
69209	ATCO	Rainbow Lake	Unit 5			7		
73899	ATCO	Muskeg 1	Unit 1			54		
73899	ATCO	Muskeg 2	Unit 2			59		
77375	Shell	Shell Scotford	Unit 1			80		
136858	Nexen	Balzac	Unit 1	68		10		
262757	Enmax	Shepard					0.200	

Table A: Addressees

Unit Operator's Contact	EPEA Approval	Facility
Tingley, Joan	123	Sheerness
Chan, Casey	773	Genesee
Chan, Casey	1391	Cloverbar
Tingley, Joan	1512	Battle River
Rob Watson	9814	Milner
Brandt, Kent	9830	Sundance
Brandt, Kent	10323	Wabamun
Brandt, Kent	10324	Keephills
Keith Peddle	11610	Medicine Hat
Tingley, Joan	11718	Rainbow Lake
Tingley, Joan	67774	Poplar Hill
Amal El-Nahas	68179	Air Liquide Scotford
Tingley, Joan	73899	Muskeg
Ludmila Shustova	77375	Shell Scotford
Dumonceau, Terry	136385	Cavalier
Louise Edwards	136681	Carseland
Metz, Michael	136858	Balzac
Louise Edwards	136951	Redwater
Balderson, Daryl	138365	Calgary Energy Centre
Tingley, Joan	147709	Valleyview
Louise Edwards	151812	Bear Creek
Louise Edwards	155746	Mackay River
Salacki, Leonard	238762	Northern Prairie Power
Balderson, Daryl	246216	Crossfield



October 21, 2009

**Re: Communications Policy For Emissions Trading Regulation
(Alberta Regulation 33 /2006)**

Policy Statement: Alberta Environment maintains a clear line of communication between itself and unit operators

Procedures: The following points are Alberta Environment's communications procedures for external stakeholders with relation to the *Emissions Trading Regulation*:

- Alberta Environment maintains one policy and program contact for each company holding one or more *Environment Protection and Enhancement Act* approvals impacted by the *Emissions Trading Regulation*.
- The unique contact for each company is responsible for communicating Alberta Environment's decisions and new policies to its facility staff and company management.
- Alberta Environment maintains one email contact for the program's administration. That email is emissiontrading@gov.ab.ca. Alberta Environment checks the email inbox once a week.
- Alberta Environment publicly posts guidance documents on the Registry website at: <http://environment.alberta.ca/apps/ETR/>
- Alberta Environment notifies the unique company contact regarding establishment of trading accounts, establishment of baselines, issuing of credits, and the transfer of credits.
- Alberta Environment validates credit transfers using information on the account holder's account application.
- Alberta Environment sends policy decisions to company contacts by email and posts the policies on the Registry website.
- Alberta Environment, when necessary, consults with company contacts regarding changes to program policies and guidance documents.
- Alberta Environment publicly posts new baseline applications on its external website at: <http://environment.alberta.ca/1374.html>. Alberta Environment also notifies the Clean Air Strategic Alliance when new baselines are posted on the website.


Keith Leggat,
Director
Alberta Environment

Emissions Trading Regulation (AR 33/2006)
Credit Transfer Or Retirement
(Created by Dobson April 10, 2014)


This procedure is in regard of actions by the Register Operator in regard to Sections 48(1) and 51(1)(2). The information in a transfer is **confidential** to the parties to the transfer. All the following actions are taken such that the information is kept confidential with regard to all actions taken by the Registry in respect of the transfer. "Registry Operator" means the Registry Operator or their staff.

1. A transfer/retirement form received by the Registry Operator. No signature is required on the form.
2. The transfer is recorded at the following in the *Registry of Transactions*. The *Registry of Transactions* is an Excel spreadsheet at this location:

\\Edmoxpfs01\eadata\EPB\EPI\Electricity_Minerals\60057_002\08_registry\00_Transactions - CONFIDENTIAL

- a. The transfer is given a number. The format for the "transfer number" is 2014-TN001. So "year"-**"T for transfer OR R for retirement"**"substance""sequential number starting a 001 for the year".
 - b. Data associated with the transaction is recorded in the spreadsheet.
3. A file is opened at the same location as the *Registry of Transactions* using the "transfer number". The original form is copied to the file.
4. A receipt of the transaction is sent sender of the transfer/retirement request. The receipt is put on file.
5. An email is sent to the person designated by the account holder as being allowed to undertake transactions (or the designated alternative). The choice between the primary person and the alternate is made at the convenience of the Registry Operator. The email contains the following information:
 - a. The "transfer number".
 - b. The information in the transfer/retirement form is restated as the Registry Operator recorded in the *Registry of Transactions*.
 - c. The account holder's designate is asked to confirm the restated information is accurate by return email.
6. The Registry Operator receives the confirmation. The receipt is put on file.
7. The Registry Operator phones the designated person at their phone number of record to confirm the order. The verbal confirmation is recorded in the *Registry of Transactions* along with the date.
8. The transaction is executed it the Registry.
9. A receipt of the transaction is sent to both parties of the transaction.
10. All emails and correspondence is filed.

Registry Operator's approval of procedure:


Kem Singh

April 17, 2014
Date

