

Annual Report Of Registry Operations For 2020
Emissions Trading Regulation, Section 15
(Alberta Regulation 33 /2006)
Environmental Protection and Enhancement Act (EPEA)

Table 1: Annual Report of Registry Operations in Calendar Year 2020

In respect of the preceding year: (a) the number of emission credits issued;	6,737 of NO _x credits and 3,828 of SO ₂ credits.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	1,071 NO _x and 1,486 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 were subject to discount at of the end of 2020 (January 1, 2021) included all credits with a vintage of 2018 or earlier and that number is 81,930 NO _x credits and 40,818 SO ₂ credits. These credits are discounted by 10%. The 10% discount represents 8,193 tonnes of NO _x and 4,082 tonnes of SO ₂ .
(d) the number of transactions recorded by the registry;	Operators made 2 inter-firm transactions.
(e) the aggregate balance of emission credits recorded by the registry;	86,300 NO _x credits and 40,818 SO ₂ credits (balance as of January 1, 2021).
(f) the aggregate mass balance of emission credits after discounting;	78,107 tonnes of NO _x and 36,736 tonnes of SO ₂ .

Approved on June 29, 2021 by:

Brenna McLennan
 Acting Executive Director, Policy Systems
 Emissions Trading Regulation's Section 1(1)(n) Director
 Alberta Environment and Parks

Appendix A: Credits Issued in 2020 and Their Serial Numbers

Table A1: Credits Issued January 27 2020

EPEA	Company	Facility	Unit	2016 NOx	2016 SO2	2017 NOx	2017 SO2	2018 NOx	2018 SO2	Serial Number Start	Serial Number End
123	ATCO	Sheerness	1			668				N2017-003878	N2017-004545
123	ATCO	Sheerness	1					590		N2018-000001	N2018-000590
123	ATCO	Sheerness	1						1525	S2018-000001	S2018-001525
123	ATCO	Sheerness	2			834				N2017-004546	N2017-005379
123	ATCO	Sheerness	2					754		N2018-000591	N2018-001344
123	ATCO	Sheerness	2						2020	S2018-001526	S2018-003545
69209	ATCO	Rainbow Lake	5			27				N2017-005380	N2017-005406
69209	ATCO	Rainbow Lake	5					63		N2018-001345	N2018-001407
73899	ATCO	Muskeg	1			68				N2017-005407W	N2017-005474W
73899	ATCO	Muskeg	1					73		N2018-001408W	N2018-001480W
73899	ATCO	Muskeg	2			45				N2017-005475W	N2017-005519W
73899	ATCO	Muskeg	2					66		N2018-001481W	N2018-001546W
9830	TransAlta	Sundance	1		45					S2016-001455	S2016-001499
9830	TransAlta	Sundance	1				39			S2017-001685	S2017-001723
9830	TransAlta	Sundance	2		42					S2016-001500	S2016-001541
9830	TransAlta	Sundance	2				78			S2017-001724	S2017-001801
10324	TransAlta	Keephills	1	864						N2016-004436	N2016-005299
10324	TransAlta	Keephills	1			960				N2017-005520	N2017-006479
10324	TransAlta	Keephills	1				52			S2017-001802	S2017-001853
10324	TransAlta	Keephills	2	645						N2016-005300	N2016-005944
10324	TransAlta	Keephills	2			613				N2017-006480	N2017-007092
10324	TransAlta	Keephills	2				27			S2017-001854	S2017-001880
10324	TransAlta	Keephills	3	65						N2016-005945	N2016-006009
10324	TransAlta	Keephills	3			193				N2017-007093	N2017-007285

Table A2: Credits Issued June 23 2020

EPEA	Company	Facility	Unit	2017 NOx	2018 NOx	2019 NOx	Type	Serial Number Start	Serial Number End
136858	CNOOC	Balzac	Unit 1	7			Baseline	n2017-007286	n2017-007292
136858	CNOOC	Balzac	Unit 1		37		Baseline	n2018-001547	n2018-001583
138365	Calgary Energy Centre	Calgary Energy Centre	Unit 1		87		Non-Discountable	n2018-001584w	n2018-001670w
138365	Calgary Energy Centre	Calgary Energy Centre	Unit 1			78	Non-Discountable	n2019-000001w	n2019-000078w

Table A3: Total of All credits Issued

Total of All Issues	Substance	Credits
June 23 2020	NOx	209
January 27 2020	NOx	6528
Total	NOx	6737
January 27 2020	SO2	3828

Appendix B: Registry Errata (as of June 2021)

**Table B.1
Credits Created in Error (2006 to 2021)**

Start Serial Number	End Serial Number	Total	EPEA	Erroneously created by Alberta Environment to credit of this unit.	Year the error occurred.	Erroneously created retired to Alberta Environment Account for year:
N2010-006131	N2010-006279	-149	9830	Sundance 3	2013	2013
N2006-000108	N2006-000112	-5	1512	Battle River 3	2010	2010
N2007-000047	N2007-000084	-38	1512	Battle River 3	2010	2010
N2008-000407	N2008-000526	-120	138365	Calgary Energy Centre	2010	2010
S2006-000001	S2006-000002	-2	1512	Battle 3	2010	2010
S2007-000001	S2007-000011	-11	1512	Battle 3	2010	2010
S2015-000001	S2015-000963	-963	773	Genesee 2	2017	2017
NS015-004410	N2015-004506	-97	9830	Sundance 4	2017	2017
S2015-003257	S2015-003407	-151	773	Genesee 3	2017	2017
N2015-007904w	N2015-007941w	-38	73899	Muskeg 2	2018	2018

**Table B.2
Credits Retired For Correct Unit and Obligation But Wrong Compliance Year (2006 to 2021)**

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	2- 013	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
S2010-000001	S2010-000027	27	2016	2017	ATCO - 001512 Battle River - 4

Start of Credit Series	End of Credit Series	Number of Credits	Retirement Year	Nominally Retired To Credit of This Unit	Correct Unit
s2006-005119	s2006-5129	11	2018	ATCO - 001512 Battle River - 3	ATCO - 001512 Battle River - 4

Appendix C: Provisional Compliance Report



Original: June 22, 2020
 Reissued: June 29, 2021

**Re: Provisional Compliance Report For Calendar Year 2019
 Emissions Trading Regulation, Section 55 (Alberta Regulation 33 /2006)**

**Table 1:
 Section 55 Reporting – Summary Compiled by Registry Operator for 2019**

This provisional report indicates EPEA approval holders retired credits to satisfy the requirements of their approval in regard of annual NOx and SO2 limits.

EPEA Approval	9814		1512			
Facility	HR Milner		Battle River			
EPEA Approval Holder	Milner Power Corp		ATCO			
Unit	1		3		4	
Generation (MWh)	442,570		170,273		596,367	
Substance	SO2	NOx	SO2	NOx	SO2	NOx
Emission Limit (kg/MWh)	0.65	0.47	0.65	0.47	0.65	0.47
Emissions (kilograms)	189,811	388,524	560,087	318,004	1,422,412	934,641
Actual Intensity (kg/MWh)	0.429	0.878	3.289	1.868	2.385	1.567
Credits Needed (tonnes)	0	180	449	237	1034	654
Credits Retired to the Benefit of 2019 (credits)	0	180	450	238	1036	653*
Mass Value of Retired Credits (tonnes)	0	180	449	237	1034	654

* Two extra credits retired in 2021.

Original Signed June 22, 2020 by Sandra Honour. Reissued with footnoted amendment to Attachment 1.

Approved on June 29, 2021 by:
 Brenna McLennan
 Acting Executive Director, Policy Systems
 Emissions Trading Regulation's Section 1(1)(n) Director
 Alberta Environment and Parks

Attachment 1: Serial number retired.
 Attachment 2: Extract from regulation.

Attachment 1: Serial Numbers

Transaction ID	Substance	Requested By	To Account	To Account Type	Credit Type	First Credit	Last Credit	Total
2020-RB002	NOx	Heartland	1512-3	Retire2019	discountable	n2017-004212	n2017-004449	238
2020-RB002	SO2	Heartland	1512-3	Retire2019	discountable	s2018-000764	s2018-001213	450
2020-RB002	NOx	Heartland	1512-4	Retire2019	discountable	n2017-004450	n2017-004545	96
2020-RB002*	NOx	Heartland	1512-4	Retire2019	discountable	n2017-004963	n2017-005519	557
2020-RB002	SO2	Heartland	1512-4	Retire2019	discountable	s2018-001214	s2018-001239	26
2020-RB002	SO2	Heartland	1512-4	Retire2019	discountable	s2018-002536	s2018-003545	1010
2020-RN0004	NOx	Maxim Power	9814-1	Retire2019	undiscounted	n2009-004452	n2009-004489	38
2020-RN0004	NOx	Maxim Power	9814-1	Retire2019	undiscounted	n2006-005805	n2006-005853	49
2020-RN0004	NOx	Maxim Power	9814-1	Retire2019	undiscounted	n2008-008399	n2008-008444	46
2020-RN0004	NOx	Maxim Power	9814-1	Retire2019	undiscounted	n2007-006886	n2007-006932	47

* Heartland requested 558 credit be retired (up to n2017-005520). Heartland did not hold credit n2017-5520 and the credit was not retired. In lieu of n2017-5520, Heartland retired two extra credits (n2011-004540 and n2011-004541) in 2021 towards their 2019 obligation.

Attachment 2: 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.

Appendix D: Requirements for the Annual Report of Registry Operations

Excerpt from 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.