

**Annual Report Of Registry Operations For 2022**  
 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 2022**

In respect of the preceding year: (a) the number of emission credits issued;	0 of NO <sub>x</sub> credits and 0 of SO <sub>2</sub> credits.  Note: No credits were issued in 2022. The Director received applications in 2021 and 2022. The Director reviewed the applications and issued credits in 2023.
(b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished;	1322 NO <sub>x</sub> and 670 SO <sub>2</sub> credits were retired to 2021 retirement accounts.  Note: The 2021 Compliance Report (in Appendix C of this report) shows 1306 NO <sub>x</sub> and 670 SO <sub>2</sub> credits used for compliance purposes in 2022. The Registry operator retired 16 credits for EPEA 9840 Unit 4 (Sundance) to its 2021 retirement account rather than its 2022 retirement account. This report and the Registry's public Errata Sheet state these 16 credits are to credit the EPEA 9840 Unit 4 (Sundance) 2022 Retirement Account.
(c) the number of emission credits discounted and what that discount represents;	The total number of active credits in the Registry that are subject to discount at of the end of 2022 (January 1, 2023) included all credits with a vintage of 2020 or earlier and that number is 85,427 NO <sub>x</sub> credits and 43,481 SO <sub>2</sub> credits. These credits are discounted by 10%.  The 10% discount represents 8,542 tonnes of NO <sub>x</sub> and 4,348 tonnes of SO <sub>2</sub> .
(d) the number of transactions recorded by the registry;	There were no inter-firm transactions in 2022.
(e) the aggregate balance of emission credits recorded by the registry;	90,276 NO <sub>x</sub> credits and 44,851 SO <sub>2</sub> credits (balance as of January 1, 2022).
(f) the aggregate mass balance of emission credits after discounting;	On January 1, 2022, 81,734 tonnes of NO <sub>x</sub> and 40,503 tonnes of SO <sub>2</sub> .

Approved June 28, 2023.

Robert Hamaliuk  
 Executive Director, Air and Climate Policy  
 Emissions Trading Regulation's Section 1(1)(n) Director  
 Alberta Environment and Protected Areas

## Appendix A: Credits Issued in 2022 and Their Serial Numbers

**Table A1: Credits Serial Numbers Issued In 2022**

No credits were issued in 2022. Credit applications received in 2021 were reviewed by Director in 2023.

**Table A2: Total of All credits Issued In 2022**

Substance	NOX	SO2
Total Issued in 2022	0	0

No credits were issued in 2022. Credit applications received in 2021 were reviewed by Director in 2023.

## Appendix B: Registry Errata (as of June 2023)

**Table B.1:  
Credits Created in Error. All errors from 2006 to 2023  
(Dated April 24, 2018 but current to June 2023)**

Emissions Trading Registry: ERRATA for credits created in error.

Emissions Trading Regulation (Alberta Regulation 33/2006)

As of April 24 2018

Start Serial Number	End Serial Number	Total	EPEA	Erroneously created by Alberta Environment to credit of this unit.	Year the error occurred.	Erroneously created credits retired to this account: "Alberta Environment – Retire" 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.  
All errors from 2006 to 2023 (Dated November 15, 2022 but current to June 2023).**

Emissions Trading Registry: ERRATA for credits retired for compliance purposes.

Emissions Trading Regulation (Alberta Regulation 33/2006)

As of 2022 November 15

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
S2010-000001	S2010-000027	27	2016	2017	ATCO - 001512 Battle River - 4
N2018-000684	N2018-000699	16	2021	2022	TransAlta – 009830 Sundance - 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 Issued In 2022



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February 14, 2023

Re: **Provisional Compliance Report For Calendar Year 2021**  
**Emissions Trading Regulation, Section 55 (Alberta Regulation 33 /2006)**

**Table 1: Section 55 Reporting – Summary Compiled by Registry Operator for 2021**

This provisional report indicates EPEA approval holders retired credits towards the requirements of their approval in regard of annual NO<sub>x</sub> and SO<sub>2</sub> limits.

EPEA Approval	9814		1512		9830	
Facility	HR Milner		Battle River		Sundance	
EPEA Approval Holder	Milner Power Corp		ATCO		TransAlta	
Unit	1 (power imported to test equipment)		4		4	
Generation (MWh)	-437		235,526		825,284	
Substance	SO <sub>2</sub>	NO <sub>x</sub>	SO <sub>2</sub>	NO <sub>x</sub>	SO <sub>2</sub>	NO <sub>x</sub>
Emission Limit (kg/MWh)	0.65	0.47	0.65	0.47	0.65	0.47
Emissions (kilograms)	382	624	208,052	242,451	1,083,590	1,412,650
Actual Intensity (kg/MWh)	-0.874	-1.428	0.883	1.029	1.313	1.712
Credits Needed (tonnes)	0.67	0.83	55.0	131.8	547.2	1024.8
Credits Retired of 2021 (credits)	0	0	62	167	608	1139
Mass Value of Retired Credits (tonnes)	0	0	55.8	150.3	547.2	1025.1

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

Attachment 1: Serial Numbers Retired

Transaction ID	Transaction Part	Of this number of parts	Substance	Requested By	From Account	From Account Type	To Account	To Account Type	Registry Error or Note	First Credit	Last Credit	Total
2022-RB001	1	6	SO2	TransAlta	9830-4	Holding	9830-4	Retire2021		s2018-000001	s2018-000608	608
2022-RB001	2	6	NOx	TransAlta	9830-4	Holding	9830-4	Retire2021		n2017-003878	n2017-004211	334
2022-RB001	3	6	NOx	TransAlta	9830-4	Holding	9830-4	Retire2021		n2017-004546	n2017-004962	417
2022-RB001	4	6	NOx	TransAlta	9830-4	Holding	9830-4	Retire2021		n2018-000001	n2018-000295	295
2022-RB001	5	6	NOx	TransAlta	9830-4	Holding	9830-4	Retire2021		n2018-000591	n2018-000683	93
2022-RB001	5	6	NOx	TransAlta	9830-4	Holding	9830-4	Retire2021	Should have been retired to 2022	n2018-000684	n2018-000699	16
2022-RB002	1	2	NOx	Heartland	1512-4	Holding	1512-4	retire2021		n2011-004555	n2011-004682	128
2022-RB002	2	2	NOx	Heartland	123-1	Holding	1512-4	retire2021		s2018-001240	s2018-001301	62
2022-RB002	1B-b	2B	Nox	Heartland	1512-4	Holding	1512-4	retire2021		n2011-004683	n2011-004721	39

## **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<sub>x</sub> and, if applicable, for SO<sub>2</sub> 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<sub>x</sub> and, if applicable, for SO<sub>2</sub> indicating the number of NO<sub>x</sub> and SO<sub>2</sub> 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.