

**Annual Report Of Registry Operations For 2016**

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

**Table 1: Annual Report of Registry Operations in Calendar Year 2016**

|                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) the number of emission credits issued;                                                                                    | 442 of NO <sub>x</sub> credits and 68 of SO <sub>2</sub> credits.                                                                                                                                                                                                                                                                                                                                            |
| (b) the number of emission credits that have been used for compliance purposes, retired, cancelled or otherwise extinguished; | 762 NO <sub>2</sub> and 1,372 SO <sub>2</sub> 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 2016 (January 1, 2017) included all credits with a vintage of 2014 or earlier and that number is 60,673 NO <sub>x</sub> credits and 35,877 SO <sub>2</sub> credits. These credits are discounted by 10%.<br><br>The 10% discount represents 6,067 tonnes of NO <sub>x</sub> and 3,587 tonnes of SO <sub>2</sub> . |
| (d) the number of transactions recorded by the registry;                                                                      | No transaction were made.                                                                                                                                                                                                                                                                                                                                                                                    |
| (e) the aggregate balance of emission credits recorded by the registry;                                                       | 63,119 NO <sub>x</sub> credits and 35,877 SO <sub>2</sub> credits (balance as of January 1, 2017).                                                                                                                                                                                                                                                                                                           |
| (f) the aggregate mass balance of emission credits after discounting;                                                         | 57,051 tonnes of NO <sub>x</sub> and 32,289 tonnes of SO <sub>2</sub> .                                                                                                                                                                                                                                                                                                                                      |

  
 \_\_\_\_\_  
 Kem Singh  
 Director  
 Alberta Environment and Parks

June 23, 2017  
 Date

**Appendix A: Table A.1 Baselines Established and Number of Credits Issued in 2016 and Their Serial Numbers**

| EPEA   | Company              | Facility       | Unit       | 2013 NOx (credits) | 2014 NOx (credits) | Baseline NOx (kg/MWh) | Baseline SO2 (kg/MWh) | Start Serial Number | End Serial Number |
|--------|----------------------|----------------|------------|--------------------|--------------------|-----------------------|-----------------------|---------------------|-------------------|
| 773    | Capital Power        | Genesee        | Unit 3     |                    |                    | 0.621                 | 0.800                 |                     |                   |
| 11610  | City of Medicine Hat | Medicine Hat   | Unit 10DLE |                    | 3                  |                       |                       | N2014-000006        | N2014-000008      |
| 11610  | City of Medicine Hat | Medicine Hat   | Unit 11DLE |                    | 5                  |                       |                       | N2014-000001        | N2014-000005      |
| 69209  | ATCO                 | Rainbow Lake   | Unit 4     |                    | 224                |                       |                       | N2014-000009        | N2014-000232      |
| 69209  | ATCO                 | Rainbow Lake   | Unit 5     |                    | 7                  |                       |                       | n2014-000233        | n2014-000239      |
| 73899  | ATCO                 | Muskeg 1       | Unit 1     |                    | 54                 |                       |                       | N2014-000240W       | N2014-000293W     |
| 73899  | ATCO                 | Muskeg 2       | Unit 2     |                    | 59                 |                       |                       | n2014-000294W       | N2014-000352W     |
| 77375  | Shell                | Shell Scotford | Unit 1     |                    | 80                 |                       |                       | N2014-000353        | N2014-000432      |
| 136858 | Nexen                | Balzac         | Unit 1     | 68                 |                    |                       |                       | N2013-004975        | N2013-005042      |
| 136858 | Nexen                | Balzac         | Unit 1     |                    | 10                 |                       |                       | N2014-000433        | N2014-000442      |
| 262757 | Enmax                | Shepard        | Unit 1     |                    |                    | 0.200                 |                       |                     |                   |
|        |                      |                | Total      | 68                 | 442                |                       |                       |                     |                   |

## Appendix B: Registry Errata (as of June 2017)

### Table B.1 Credits Created in Error

| 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 – Erroneously Created" 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                                                                                                       |

### Table B.2 Credits Retired For The Correct Unit and Obligation 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    |

## Appendix C: Provisional Compliance Report (Credits used in 2016)



Policy and Planning Division  
Oxbridge Place 10<sup>th</sup> Floor  
9820 – 106 Street  
Edmonton, Alberta T6H 2K5  
Canada  
[www.alberta.ca](http://www.alberta.ca)

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                      | 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            |
| 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 NO<sub>x</sub> and SO<sub>2</sub> emission total.

Original signed.

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

## **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.

