

## STATEMENT OF RE-VERIFICATION

2006/2007

**Facility Name:**

**Soderglen Windfarm Project**

**Facility Location:**

**Fort Macleod Area, Alberta**

**Review Objective:**

At the request of the project proponent (i.e., Nexen Inc.) the objective was to review the company's Specified Gas Offset Credit Project to re-verify the related greenhouse gas assertions for the years 2006 and 2007 due to changes made to the original submission, and to provide a Statement of Re-Verification.

The original verified submission was revised for the following reasons:

A finding in the verification (dated March 16, 2009) of the original submission identified the need to ascertain the emissions from fuel used in the operation and maintenance of the facility, in accordance with the Alberta Environment Quantification Protocol for Wind-Powered Electricity Generation.

The electricity used by the turbine facilities and office facility in Fort MacLeod was accounted for and emissions established using the Alberta Electricity Displacement Factor of 0.65Kg CO<sub>2</sub>e/KWHour.

Emissions from Natural Gas combustion in the facility office, extraction and processing were accounted for and related emissions were established. Since the energy content of natural gas could not be confirmed from billing information supplied by the gas supply company, a typical energy content value of 37.98 MJ/m<sup>3</sup> was used.

Similarly, vehicle (gasoline) fuel combustion and production emissions were estimated.

All of the above were deducted from the Gross Offset put forward in the original submission.

Subsequent results of a review by the regulator of the calculation procedures suggested the rounding down of final Credit values and use of the National Inventory Report – Alberta Electricity Emission Factors (Annex 9, Table A9-10, Pg 516) rather than the Alberta Electricity Displacement Factor which was used in the original submission, for electricity imported from the grid.

The National Inventory Report was published in 2008 and has data for Alberta to 2006 which quotes a value of 0.93Kg CO<sub>2</sub>e/KWHour versus the Alberta Electricity Displacement Factor of 0.65Kg CO<sub>2</sub>e/KWHour.

2006 and 2007 greenhouse gas offsets were recalculated using the revised emission factor for electricity imported for operation of the windfarm during no-wind periods and operation of the office facility in Fort MacLeod.

**Greenhouse Gas Assertion:**

Creation Period:	August 1 – December 31, 2006
Emission Type:	Tonnes of carbon dioxide equivalent (CO <sub>2</sub> e)
Original Quantity:	16,066 tonnes
Revised Quantity:	16,050 tonnes
Creation Period:	January 1, 2007 – December 31, 2007
Emission Type:	Tonnes of carbon dioxide equivalent (CO <sub>2</sub> e)
Original Quantity:	105,713 tonnes
Revised Quantity:	105,608 tonnes

**Responsibilities of Reporting Company and Third Party Reviewer:**

Nexen Inc. is responsible for collection and presentation of the project information. The responsibility of Laxford Consulting Inc. is to express a conclusion as to whether anything has come to our attention to suggest that the assertion is not presented fairly in accordance with the Alberta Environment Specified Gas Emitters regulation and associated guidance documents.

**Audit Standard:**

The review process was based on ISO 14064 Part 3 – Greenhouse Gases: Specification with guidance for the validation and verification of greenhouse gas assertions. As such we planned and performed our work in order to provide limited, rather than absolute, assurance with respect to the specified gas offset credit information reviewed.

**Review Criteria:**

Review criteria were based on guidelines approved by Alberta Environment. Laxford Consulting believes that our work provides a reasonable basis for our conclusion.

**Conclusion:**

Based upon this review, it can be concluded that a "Limited Level of Assurance" has been confirmed for the revised Nexen Inc. Specified Gas Offset Credit Project emission reduction assertion.

**Reviewing Company Name:**

Laxford Consulting Inc.

**Signature of Third Party Reviewer:**



**Date:**

February 04, 2010

**First Name:**

David

**Last Name:**

Mack

**Professional Designation**

P.Eng., CEA, EMS(A)

**Telephone Number**

403

861 9865

**Fax Number**

403

342 5181

**E-mail Address**

dave\_mack@shaw.ca