



April 17, 2014

Ms. Agatha Garcia-Wright
 Director, Environmental Approvals Branch
 Ministry of the Environment
 2 St. Clair Avenue West,
 Toronto, ON
 M4V 1L5

Subject: Adelaide Wind Energy Centre. Project Amendment to REA Number 8980-95RSLP

Dear Ms. Garcia-Wright,

Please find the enclosed documentation in support of the REA amendment application for the Adelaide Wind Energy Centre. Please note that payment will be provided via credit card. I can be reached at the contact information provided below for the associated payment information.

Please note that the modifications proposed in this application includes additional lands that have been already approved by the MOE on 28 March 2014 through a REA amendment of the Bornish Wind Energy Centre as it corresponds to the section of the transmission that is common to three NextEra Projects, namely Adelaide, Bornish and Jericho Wind Energy Centres.

In addition to the above modification outlined in the enclosed report, we also request changes to REA Conditions of Approval D1, E2, F1.(2)a) and F1.(2)b), F2.(1) and (2) to reflect our experience and to be consistent with conditions issued in more recent REAs.

Current Condition of Approval	Requested Amendment
D1. The Company shall carry out an Acoustic Audit of each of the three (3) transformer substations in accordance with the procedure set out in Publication NPC-103, and shall submit to the District Manager and the Director an Acoustic Audit Report prepared by an Independent Acoustical Consultant in accordance with the requirements of Publication NPC-233, no later than six (6) months after the commencement of the operation of the Facility.	D1. The Company shall carry out an Acoustic Audit of each of the three (3) transformer substations in accordance with the procedure set out in Publication NPC-103, and shall submit to the District Manager and the Director an Acoustic Audit Report prepared by an Independent Acoustical Consultant in accordance with the requirements of Publication NPC-233, no later than twelve (12) months after the commencement of the operation of the Facility.
E2. The Company shall submit to the District Manager and the Director an Acoustic Audit Report -Emission, prepared in accordance with Section 9 of the IEC Standard 61400-11 by an Independent Acoustical Consultant, no later than six (6) months after the commencement of the operation of the Facility.	E2. The Company shall submit to the District Manager and the Director an Acoustic Audit Report-Emission, prepared in accordance with Section 9 of the IEC Standard 61400-11 by an Independent Acoustical Consultant, no later than twelve (12) months after the commencement of the operation of the Facility.

NextEra Energy Canada, ULC

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<p>F1. The Company shall carry out an Acoustic Audit – Immission of the Sound Levels produced by the operation of the Equipment in accordance with the following:</p> <p>(2) The acoustic audit measurements shall be performed by an Independent Acoustical Consultant at three (3) different Points of Reception that have been selected using the following criteria:</p> <ul style="list-style-type: none"> a. The Points of Reception should represent the location of the greatest predicted noise impact, i.e., the highest predicted Sound Level; and b. The Points of Reception should be located in the direction of prevailing winds from the Facility; 	<p>F1. The Company shall carry out an Acoustic Audit – Immission of the Sound Levels produced by the operation of the Equipment in accordance with the following:</p> <p>(2) the acoustic audit measurements shall be performed by an Independent Acoustical Consultant on two (2) separate occasions at three (3) different Points of Reception.</p> <p>(3) the Points of Reception shall be selected using the following criteria, subject to the constraints imposed by the location of the Points of Reception with respect to the location of the Equipment:</p> <ul style="list-style-type: none"> (a) the selected Point(s) of Reception should represent the location of the greatest predicted noise impacts, i.e., the highest predicted Sound Levels; and (b) the selected Point(s) of Reception should be located in the direction of prevailing winds from the Facility.
<p>F2. The Company shall submit to the District Manager and the Director an Acoustic Audit Report-Immission, prepared by an Independent Acoustical Consultant, at the following points in time:</p> <p>(1) no later than nine (9) months after the commencement of the operation of the Facility for the first of the two (2) acoustic audit measurements at the three (3) Points of Reception; and</p> <p>(2) no later than fifteen (15) months after the commencement of the operation of the Facility for the second of the two (2) acoustic</p>	<p>F2. The Company shall submit to the District Manager and the Director an Acoustic Audit Report-Immission, prepared by an Independent Acoustical Consultant, at the following points in time:</p> <p>(1) no later than twelve (12) months after the commencement of the operation of the Facility for the first of the two (2) acoustic audit measurements at the three (3) Points of Reception; and</p> <p>(2) no later than eighteen (18) months after the commencement of the operation of the Facility for the second of the two (2)</p>

audit measurements at the three (3) Points of Reception.	acoustic audit measurements at the three (3) Points of Reception.
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If you have any questions please do not hesitate to contact me.

Yours very truly,



Andrea Garcia
Environmental Specialist
NextEra Energy Canada, ULC
390 Bay Street, Suite 1720,
Toronto, ON M5H 2Y2

cc. Ben Greenhouse, NextEra Energy Canada
Derek Dudek, NextEra Energy Canada

Enclosures: Modification Report
REA Application

ADELAIDE WIND ENERGY CENTRE RENEWABLE ENERGY APPROVAL MODIFICATION REPORT

April 2014



**RENEWABLE ENERGY APPROVAL-
MODIFICATION REPORT
ADELAIDE WIND ENERGY CENTRE, ONTARIO**

Client	NextEra Energy Canada, ULC
Contact	Ben Greenhouse
Document No.	1009-CAMO-R-14
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Author

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Checked by

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Approved by

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REVISION HISTORY

Issue	Issue Date	Summary
A	4 April 2014	Initial issue for review

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1 PREAMBLE

Kerwood Wind, Inc. a wholly-owned subsidiary of NextEra Energy Canada ULC (NextEra), is proposing to develop the Adelaide Wind Energy Centre (the "Project") located in the Township of Adelaide-Metcalf and municipality of North Middlesex, Middlesex County, Ontario. The Project received a Renewable Energy Approval (REA) from the Ministry of the Environment (MOE) on 1 August 2013 [1]. Subsequent to the issuance of the REA approval the Project location has been modified as compared to REA application dated 23 August 2012. The following sections of this Modification Report describe the proposed modification to the Project and resulting changes to the originally approved REA reports.

1.1 General Project Description

The Project is located in south-western Ontario, in the Township of Adelaide-Metcalf and municipality of North Middlesex, Middlesex County, Ontario. The Project Study Area has not changed from the original REA submission.

1.1.1 Project Proponent

The Project proponent is Kerwood Wind, Inc. The proponent has not changed from the initial REA submission. The primary contact for Kerwood Wind, Inc. for this Project is:

Ben Greenhouse
NextEra Energy Canada, ULC
390 Bay St., Suite 1720
Toronto, ON M5H 2Y2
Phone 1-877-257-7330
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Adelaide.Wind@NextEraEnergy.com

2 PROPOSED PROJECT MODIFICATIONS

The proposed administrative changes to the Project consist of adding portion of lands for transmission line construction to include private easements that were not considered in the originally planned layout. The additional portion of lands have been already approved by the MOE on 28 March 2014 [2] (MOE letter available in Appendix A) through a REA amendment of the Bornish Wind Energy Centre as it corresponds to the section of the transmission that is common to three NextEra Projects, namely Adelaide, Bornish and Jericho Wind Energy Centres. Moreover, changes requested to the REA approval conditions pertaining to the Acoustic Audits are described in the cover letter.

The proposed Project modifications are summarized in Table 2-1 which documents the following:

- 1 A description of the modification and a rationale for the proposed modification; and
- 2 New potential environmental effects and corresponding mitigation measures.

Figure 2-1 illustrates the proposed modifications to the transmission line construction area.

Table 2-1 : Summary of Project Modification

Proposed Modification	Rational for Proposed Modification	New Potential Environmental Effect	New Mitigation Measures
<p>The addition of private easements to the permitted Project location for the transmission line running east from the Bornish substation, along Kerwood, Elginfield and Nairn Roads to the switchyard. The additional lands will increase the permitted Project location by up to approximately 14 m east or west of the originally permitted area.</p>	<p>Following further municipal consultation and consultation with Construction and Engineering, the transmission line may be relocated from municipal right of way to private land to assist in the successful development of the Project.</p>	<p>None :</p> <ul style="list-style-type: none"> • No new natural heritage or water body features that had not been previously studied. A memo in Appendix B has been prepared to describe the modifications to the Natural Heritage Assessment report; no additional adverse effects are anticipated on the natural environment as a result of the proposed change. • Stage 2 archaeological assessments have been completed for the additional disturbance area [3]; the MTCS is satisfied with the fieldwork and reporting for the archaeological assessment consistent with the Ministry's 2011 Standards and Guidelines, as shown in Appendix C. • No new consideration of Built Heritage is required as the entire parcel was considered as part of the Self-Assessment dated 22 March 2012 [4]. • No impacts to the MOE-approved Noise Impact Assessment (NIA) [5] will result from this proposed change. 	<p>N/A</p>

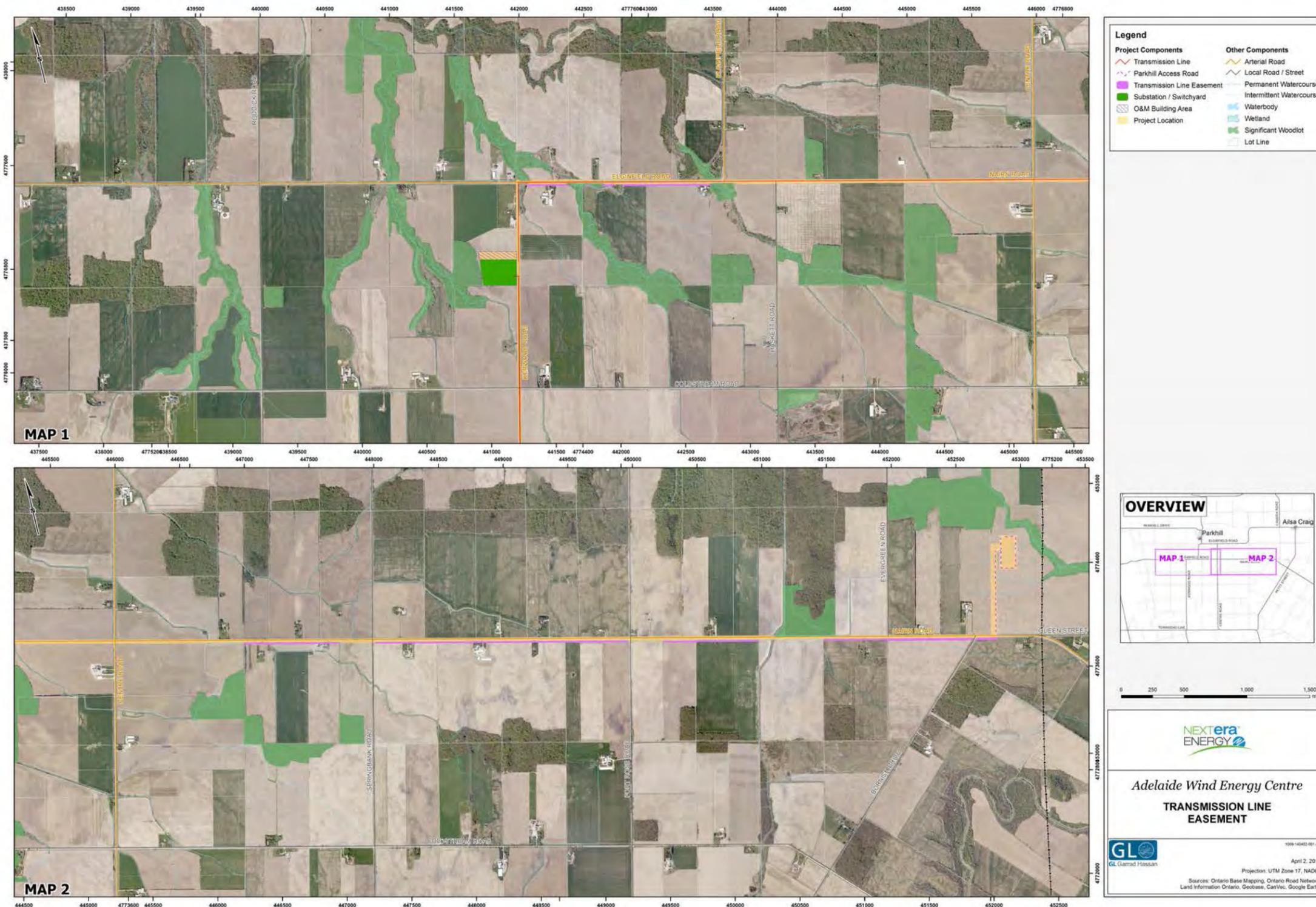


Figure 2-1: Proposed Layout Modification for Transmission Line Construction Area

3 EDITS TO THE PROJECT DESCRIPTION REPORT

Table 3-1 documents the edits to the Project Description Report [6] from the modification described above.

Table 3-1 : Edits to the Project Description Report

Section / Page	Original Text	Revised Text
Section 1.1 / p. 2	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal on a combination of private lands and public rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.
Section 2.1.3 / p. 9	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal rights-of-way to an existing Hydro One 500 kV transmission line.	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal on a combination of private lands and public rights-of-way to an existing Hydro One 500 kV transmission line.
Section 2.2.1 / p. 16	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal rights-of-way to an existing Hydro One 500 kV transmission line.	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal on a combination of private lands and public rights-of-way to an existing Hydro One 500 kV transmission line.

4 EDITS TO THE DESIGN AND OPERATIONS REPORT

Table 4-1 documents the edits to the Design and Operations Report [7] resulting from the modification described above. The Site Plan maps originally approved as described in the Project Design Change Summary Report [8] are presented in Appendix D and the modified Site Plan map is illustrated in Appendix E. Please note that only one of the six Site Plan maps (Site Plan 6) has been modified based on the proposed change.

Table 4-1 : Edits to the Design and Operations Report

Section / Page	Original Text	Revised Text
Section 1.1 / p. 2	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal on a combination of private lands and public rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.
Section 3.4 / p. 11	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal rights-of-way to an existing Hydro One 500 kV transmission line.	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal on a combination of private lands and public rights-of-way to an existing Hydro One 500 kV transmission line.

5 EDITS TO THE CONSTRUCTION PLAN REPORT

Table 5-1 documents the edits to the Construction Plan Report [9] resulting from the modification described above. The Site Plan maps originally approved as described in the Project Design Change Summary Report [8] are presented in Appendix D and the modified Site Plan map are illustrated in Appendix E. Please note that only one of the six Site Plan maps (Site Plan 6) has been modified based on the proposed change.

Table 5-1 : Edits to the Construction Plan Report

Section / Page	Original Text	Revised Text
Section 1.1 / p. 2	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal on a combination of private lands and public rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.
Section 2.9 / p. 11	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal rights-of-way to an existing Hydro One 500 kV transmission line.	From there, the transmission line will travel east along Elginfield and Nairn Roads within the municipal on a combination of private lands and public rights-of-way to an existing Hydro One 500 kV transmission line.

6 EDITS TO THE DECOMMISSIONING PLAN REPORT

Table 6-1 documents the edits to the Decommissioning Plan Report [10] resulting from the modification described above.

Table 6-1 : Edits to the Decommissioning Plan Report

Section / Page	Original Text	Revised Text
Section 1.1 / p. 2	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.	From there the transmission route is proposed to run east along Elginfield and Nairn Roads within municipal on a combination of private lands and public rights-of-way to a second, Parkhill, substation then to a Hydro one-owned switchyard on to an existing Hydro One 500 kV transmission line.

7 SUMMARY AND CONCLUSIONS

The Project modifications described in this Modification Report does not change the overall conclusion of the REA Report which states that the Project can be constructed, installed, operated and decommissioned without any significant adverse residual effects.

8 REFERENCES

- [1] Ministry of the Environment, Renewable Energy Approval letter (8980-95RSLP) – Adelaide Wind Energy Centre. 1 August 2013.
- [2] Ministry of the Environment, Amendment to the Renewable Energy Approval (2494-94QQ97) – Bornish Wind Energy Centre. 28 March 2014.
- [3] URS Canada Inc., Stage 2 Archaeological Assessment (Revised Report) – NextEra Bornish Wind Energy Centre, dated 28 November 2013
- [4] Scarlett Janusas, Self-Assessment of Protected Properties, Archaeological and Heritage Resources – Bornish Wind Energy Centre, dated 22 March 2012
- [5] GL Garrad Hassan, Noise Impact Assessment – Adelaide Wind Energy Centre. 25 April 2013.
- [6] GL Garrad Hassan, Project Description Report – Adelaide Wind Energy Centre. 5 August 2012.
- [7] GL Garrad Hassan, Design and Operation Report – Adelaide Wind Energy Centre. 16 August 2012.
- [8] GL Garrad Hassan, Project Design Change Summary Report – Adelaide Wind Energy Centre. 17 August 2012.
- [9] GL Garrad Hassan, Construction Plan Report – Adelaide Wind Energy Centre. 23 April 2012.
- [10] GL Garrad Hassan, Decommissioning Plan Report – Adelaide Wind Energy Centre. 24 April 2012.