

Jericho Wind, Inc.

## **Revision to the Wind Turbine Specification Report – Jericho Wind Energy Centre**

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60301207

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## Glossary of Terms

NextEra ..... NextEra Energy Canada, ULC  
 The Project..... Jericho Wind Energy Centre  
 REA..... Renewable Energy Approval

# 1. Introduction

Jericho Wind, Inc. (Jericho) is proposing to construct a wind energy project in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in the Municipality of North Middlesex, in Middlesex County, Ontario. The following sections of this Renewable Energy Approval (REA) Revision Report describe the proposed modifications to this Project and resulting updates to the Wind Turbine Specification Report.

## 1.1 The Proponent

The Project will be owned and operated by Jericho, a wholly owned subsidiary of NextEra Energy Canada, ULC (NextEra). NextEra’s indirect parent company is NextEra Energy Resources, LLC. The proponent has not changed from the initial REA submission.

The primary contacts for the Project are as follows:

Project Proponent	Project Consultant
Ross D. Groffman Director, Development NextEra Energy Canada, ULC 390 Bay Street, Suite 1720 Toronto, Ontario, M5H 2Y2 Phone: ..... 416.364.9714 Email: ..... Jericho.Wind@NextEraEnergy.com Website: ..... www.NextEraEnergyCanada.com	Marc Rose Senior Environmental Planner AECOM 105 Commerce Valley Drive West, Floor 7 Markham, ON, Canada L3T 7W3 www.aecom.com Phone: ..... 905-747-7793 Email: ..... marc.rose@aecom.com

## 1.2 Project Study Area

The proposed Project is located in the Municipality of Lambton Shores and the Township of Warwick, in Lambton County, Ontario and in the Municipality of North Middlesex, in Middlesex County, Ontario (refer to **Figure 2-1**). The Project Study Area has not changed from the initial REA submission.

The following co-ordinates define the external boundaries of the Project Study Area:

UTM Co-ordinates

Easting	Northing
420938	4761752
419681	4780912
456597	4777307
453312	4766484

# 2. Proposed Project Modifications

Jericho is proposing modifications to the Project. These proposed Project modifications are categorized as follows:

- Construction disturbance area modified to reduce or eliminate impacts to archaeological resources;
- Infrastructure or construction disturbance area added or changed to optimize project design/constructability;
- Turbine and associated infrastructure removed.

**Table 2-1** provides a description of each modification and a rationale for why the modification is proposed.

**Figure 2-1** illustrates the modified Project Location.

**Table 2-1 Summary of Project Modifications**

<b>Label on Figure 2-1</b>	<b>Proposed Modification</b>	<b>Rationale for Proposed Modification</b>
<b>A1</b>	Addition of Turbine 106 and associated access road and collection line, extending northeast from Turbine 4.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>A2</b>	Relocation of access road to Turbine 4 to travel northeast from Jericho Road, and relocation of collection line to Turbine 4 near Kennedy Line.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>A3</b>	Relocation of access road and collection line to Turbine 6 to travel west from Northville Road and then north to Turbine 6; relocation of Turbine 6 construction disturbance area to the north.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>A4</b>	Relocation of Turbine 19 construction disturbance area 19 m to the southwest and addition of access road construction disturbance area near Jericho Road.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>A5</b>	Removal of access road and collection line to Turbine 24, addition of access road disturbance area between Turbine 22 and Turbine 24 and relocation of collection line to the access road disturbance area for Turbine 22.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>A6</b>	Removal of a portion of construction disturbance area for access road and collection line to Turbines 21, 23 and 25.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>A7</b>	Removal of Turbine 5 and associated access road and collection line.	Turbine and associated infrastructure removed.
<b>B1</b>	Relocation of Turbine 7 and associated construction disturbance area 148 m to the east.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>B2</b>	Addition of collection line in Gordon Road right-of-way, north of the road to Turbine 27.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>B3</b>	Removal of Turbine 31 and associated access road and collection line.	Turbine and associated infrastructure removed.
<b>B4</b>	Addition of Turbine 32 construction disturbance area 34 m to the north and removal of the southeast portion of construction disturbance area.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>C1</b>	Relocation of Turbine 26 and associated construction disturbance area 101 m east. Access road relocated to travel north through the substation construction disturbance area and collection line relocated to the southern property boundary; and addition of construction disturbance area in Thompson Line right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>C2</b>	Relocation of access road to Turbine 18 31 m to the north.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>C3</b>	Addition of construction disturbance area for access road and collection line to Turbine 41.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>C4</b>	Addition of a spare 170 mVA transformer to be stored within the existing footprint of the Jericho substation.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D1</b>	Addition of construction disturbance area in the Northville Road right-of-way in two locations for collection line between Turbines 45 and 46.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D2</b>	Removal of a portion of construction disturbance area for access road and collection line to Turbine 56.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>D3</b>	Relocation of Turbine 46 access road to travel north from Cedar Point Line and collection to travel east along the southern property boundary; and addition of construction disturbance area for collection line in the Northville Road right-of-way.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.

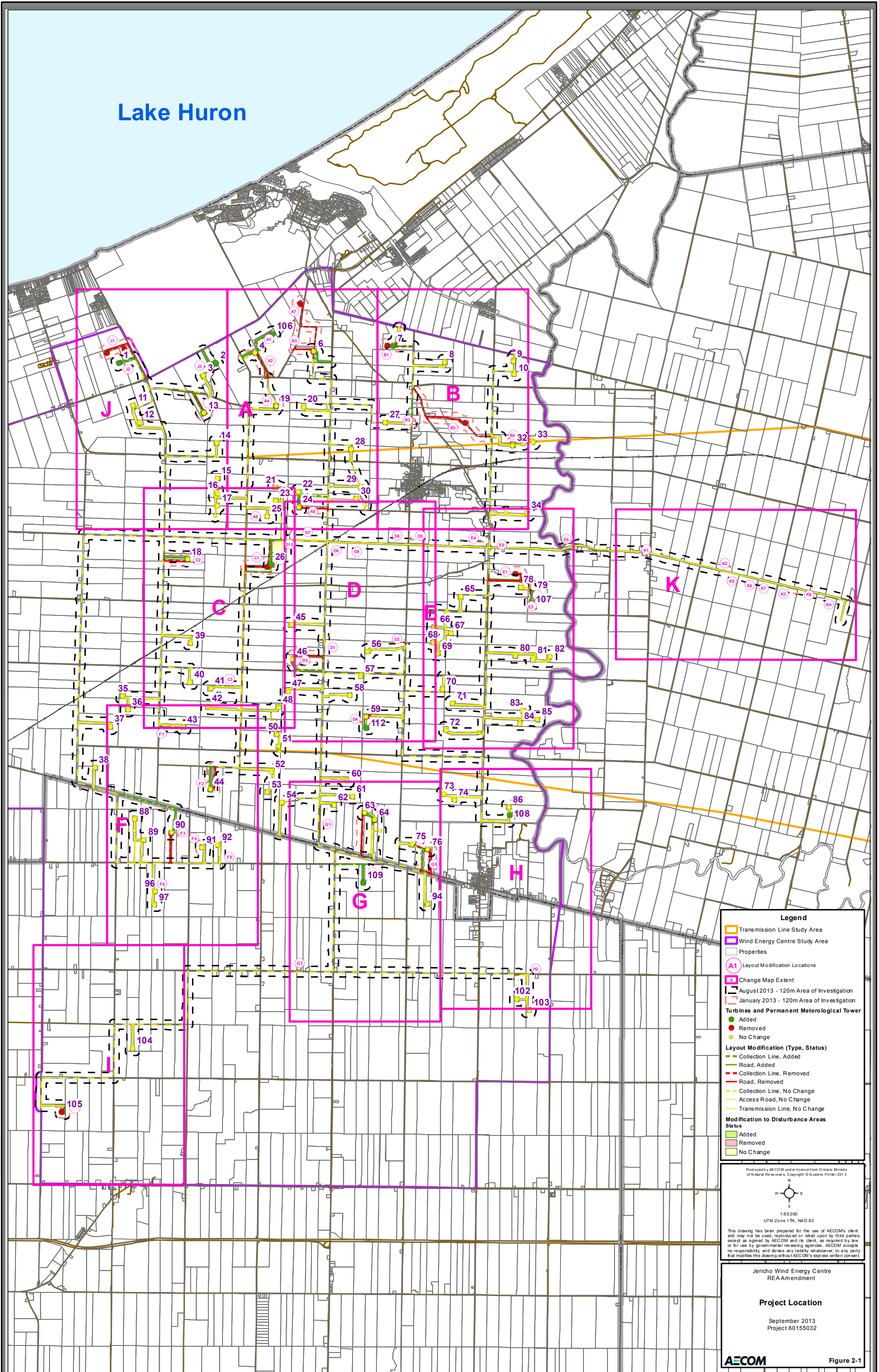
**Table 2-1 Summary of Project Modifications**

<b>Label on Figure 2-1</b>	<b>Proposed Modification</b>	<b>Rationale for Proposed Modification</b>
<b>D4</b>	Addition of Turbine 112 and associated access road and collection line, extending south from Turbine 59.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D5</b>	Addition of construction disturbance area on private property to the north of Thompson Line to allow for installation of collection line and/or transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D6</b>	Addition of transmission line construction disturbance area on private property to allow for transmission line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host collection line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D7</b>	Addition of collection line disturbance area on private property to allow for collection line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host the transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D8</b>	Addition of collection line disturbance area on private property to allow for collection line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host the transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D9</b>	Addition of collection line disturbance area on private property to allow for collection line installation either in the Thompson Line right-of-way or on private property, within the disturbance area proposed to host the transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>D10</b>	Relocation of transmission line construction disturbance area within natural areas located in the Thompson Line right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>E1</b>	Removal of Turbine 77 and associated access road and collection line / Removal and addition of portions of construction disturbance area for access road and collection line to Turbines 78, 79 and 107.	Turbine and associated infrastructure removed / Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>E2</b>	Addition of Turbine 107 and associated access road and collection line, extending south from Turbine 79.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>E3</b>	Relocation of Turbine 79 23 m to the east, within existing turbine construction disturbance area.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>E4</b>	Addition of construction disturbance area on private property to the north of Thompson Line to allow for installation of collection line and/or transmission line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>E5</b>	Relocation of transmission line construction disturbance area within natural areas located in the Thompson Line road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>E6</b>	Relocation of transmission line construction disturbance area within natural areas located in the Thompson Line/Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>F1</b>	Removal of a portion of construction disturbance area for access road and collection line to Turbine 43.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>F2</b>	Relocation of Turbine 44 access road 32 m to the west.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>F3</b>	Relocation of Turbine 90 access road and collection line to the north, extending to Townsend Line and addition of collection line in the Townsend Line right-of-way.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>F4</b>	Addition of Turbine 91 construction disturbance area 17 m to the west.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>F5</b>	Removal of a portion of construction disturbance area for access road and collection line to Turbine 92.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>F6</b>	Removal of a portion of construction disturbance area for access road and collection line to Turbines 96 and 97.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.

**Table 2-1 Summary of Project Modifications**

<b>Label on Figure 2-1</b>	<b>Proposed Modification</b>	<b>Rationale for Proposed Modification</b>
<b>G1</b>	Addition of Turbine 62 construction disturbance area to the west and addition of collection line disturbance area in two locations in the Northville Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>G2</b>	Removal of the road and collection line to Turbine 63 and addition of road and collection line, extending west from Turbine 64 to Turbine 63.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>G3</b>	Removal of collection line construction disturbance area north of Birnam Line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>G4</b>	Relocation of collection line between Turbines 76 and 75 20 m to the south.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>G5</b>	Relocation of Turbine 76 access road and collection line 134 m to the west.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>G6</b>	Addition of Turbine 109 and associated construction disturbance area, access road and collection line; addition of collection line in Hickory Creek Line right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>H1</b>	Addition of Turbine 108 and associated construction disturbance area.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>H2</b>	Relocation of collection line from private property to Birnam Line right-of-way.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>I1</b>	Relocation of Turbine 105 20 m to the south and addition of construction disturbance area.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>J1</b>	Removal of Turbine 2 and associated access road and collection line.	Turbine and associated infrastructure removed
<b>J2</b>	Relocation of Turbine 1 and associated construction disturbance area, access road and collection line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>J3</b>	Addition of Turbine 2 and associated construction disturbance area, access road and collection line.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>J4</b>	Relocation of Turbine 13 construction disturbance area 14 m southwest.	Construction disturbance area modified to reduce or eliminate impacts to archaeological resources.
<b>K1</b>	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>K2</b>	Addition of transmission line of construction disturbance area on private property to the north of Elginfield Road, east of Pete Sebe Road.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>K3</b>	Addition of transmission line construction disturbance area on private property to the south of Elginfield Road, east of Roddick Road.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>K4</b>	Addition of transmission line construction disturbance area on private property to the south of Elginfield Road, west of Kerwood Road.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>K5</b>	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>K6</b>	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>K7</b>	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.
<b>K8</b>	Relocation of transmission line construction disturbance area within natural areas located in the Elginfield Road right-of-way.	Infrastructure or construction disturbance area added or changed to optimize project design/ constructability.

Lake Huron



**Legend**

- Transmission Line Study Area
- Wind Energy Centre Study Area
- Properties
- A1 Layout Modification Locations
- Change Map Extent
- August 2013 - 120m Area of Investigation
- January 2013 - 120m Area of Investigation
- Turbines and Permanent Meteorological Tower**
  - Added
  - Removed
  - No Change
- Layout Modification (Type, Status)**
  - Collection Line, Added
  - Road, Added
  - Collection Line, Removed
  - Road, Removed
  - Collection Line, No Change
  - Access Road, No Change
  - Transmission Line, No Change
- Modification to Disturbance Areas Status**
  - Added
  - Removed
  - No Change

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UTM Zone 17N, NAD 83

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Jericho Wind Energy Centre  
REA Amendment

**Project Location**

September 2013  
Project 60155032

**AECOM**

Figure 2-1

### 3. Edits to the Wind Turbine Specification Report

**Table 3-1** documents the edits to the Wind Turbine Specification Report resulting from the modifications described above. The table includes the text from the original REA submission and edits to the text (underlined text represents additions and strikethrough text represents deletions).

**Table 3-1 Edits to the Wind Turbine Specification Report**

Section / Page	Original Text	Revised Text
<b>Section 2 / page 6</b>	Although Jericho Wind, Inc. is seeking an REA for up to 97 turbine locations, approximately 92 turbines are proposed to be constructed for the Project.	Although Jericho Wind, Inc. is seeking an REA for up to <u>97</u> <del>99</del> turbine locations, approximately 92 turbines are proposed to be constructed for the Project.