

**APPENDIX 1: Emergency Response Plan
(10 pages)**

**Ernestown Wind Park
Emergency Response and Communications Plan**

Draft – Revised 2012-03-12

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1.0 General Information

This Emergency Response and Communications Plan report is a component of the **Design and Operations Report** required for the *Renewable Energy Approval* (REA) permitting process and complies with *Ontario Regulation 359/09* (O.Reg. 359/09) under the *Environmental Protection Act*.

Ernestown Windpark Inc., as general partner of Ernestown Windpark LP, is proposing to develop a wind energy generation facility named Ernestown Wind Park, located in the Loyalist Township, Ontario, to generate clean renewable energy for connection to the public grid. This project will promote long-term, low-impact energy that will complement Ontario's goals of clean and sustainable electricity generation, while impacting economic growth in the rural community.

1.1. Project Summary

Project Name: Ernestown Wind Park
Project Type: Wind Facility
Project Location: Private Lands
Ernestown, Ontario
Loyalist Township
Lots 25, 26, 27, 28
Concessions 1, 2
Coordinates: 44°14' 8.71"N, 76°43'10.59"W, Datum: Nad 83
Number of turbines: 5
Nameplate capacity: 10 MW

1.2. Project Contacts

Proponent: Ernestown Windpark Inc., as general partner of Ernestown Windpark LP
2300 Yonge Street
Suite 801, PO Box 2300
Toronto, ON
M4P 1E4
Toll Free: 1-877-389-4099
Local: 613-770-6116
Main Office: 1-416-864-9977
Fax: 1-416-864-9568

Contact: Nhung Nguyen
Project Manager
Email: info@ernestownwind.com

2.0 Report Requirements

The Renewable Energy Application process requires that the Design and Operations Report's Emergency Response and Communications Plan speak to a number of outlined topics, as detailed in Table 1. The contents of this plan comply with the regulations in the *Renewable Energy Approval* (REA) permitting process and complies with *Ontario Regulation 359/09* (O.Reg. 359/09) under the *Environmental Protection Act*.

Table 1: REA Project Description Report Requirements

Requirement	Completed	Section
Include a response plan setting out a description of the actions to be taken while engaging in the renewable energy project to inform the public, aboriginal communities and municipalities, local roads boards and Local Services Boards with respect to the project, including:		
i. measures to provide information regarding the activities occurring at the project location, including emergencies,	Yes	4.1
ii. means by which persons responsible for engaging in the project may be contacted, and	Yes	4.2
iii. means by which correspondence directed to the persons responsible for engaging in the project will be recorded and addressed.	Yes	4.2

3.0 Emergency Response Plan

This report focuses on the implementation of the plan during the construction, operational and decommissioning phase of the project. The purpose of the plan is to establish and maintain emergency procedures required for effectively responding to accidents and other emergency situations, and for minimizing associated losses. Potential emergency scenarios which could occur during the project life include fire, personal injury and contamination due to spills of hazardous materials. The following provides the emergency response and communications procedures to be used in response to these three potential emergency scenarios. All operating staff will be trained in the emergency response and communications procedures.

3.1 Fire Prevention and Fire Response

Historically, modern wind turbine fires have been a rare event, which with the increasing resources devoted to material sciences and extensive product testing; turbine fires have become a very rare occurrence. The risk of fire on the project site is much higher during the construction and decommissioning phases of the project than during the standard operation of the turbines; due to the controlled unmanned operations and the many safety measures that have been engineered by the turbine manufacturers.

Because of the height of the nacelle, it is not expected for standard fire brigades to respond and suppress generator fires in the generator. In the unlikely event that a turbine should ignite and burn, the expected outcome is that the fire will be localized to the nacelle and that the fire will burn out on its

own; while Fire Department responders generally focus their efforts in ensuring the safety of the people on site and preventing secondary fires at ground level in case combusting material falls from the nacelle.

In accordance with the Ontario Ministry of Natural Resource's O Reg 207/96, the Forest Fire Prevention Act, the following measures will be implemented during construction and decommissioning to prevent the possibility of a fire igniting:

1. When power saws are used, appropriately sized fire extinguishers will be present and these saws will not be started within 20m of any re-fueling areas;
2. Machinery will be inspected and maintained on a daily basis to ensure that all debris is cleared from the machines and that there are no malfunctions in the equipment;
3. All heavy equipment will be required to be equipped with appropriate fire extinguishers;
4. All materials which result from land clearing will be chipped and spread per forestry industry standards to minimize negative impact on local flora

Fire extinguishers will be located in strategic locations, such as in construction and maintenance vehicles and the project substation. If a fire occurs, project personnel will attempt to extinguish it if it is safe to do so. If there is any risk of personal injury, extinguishing the fire will not be attempted. If a fire cannot be extinguished using the hand held extinguishers, the project area will be evacuated and project personnel will immediately call 911 to summon the local fire department, and ambulance if required.

Project personnel will notify the owners of the project lands in case of a fire to ensure the safety of persons living and working on these lands. The residents and staff of all adjacent properties will be notified if the fire appears able to move off of the project site. All staff on site during the life of the project will be trained in the procedure to deal with a fire and the use of a fire extinguisher. During the life of the project, a clearly visible signs will be erected which includes instructions to call 911 and to call a project phone number should a passerby notice an emergency.

In the event of an emergency, project personnel at the site will contact 911 and the Project Manager. All incidents will be documented and will include date of incident, date of reporting, name of reporter, description of the incident, cause of the incident, actions taken, communications to outside groups and internal personnel and follow-up required.

3.2 Personal Injury

The work during the construction phase of the Ernestown Wind Park will be completed by consultants who will establish their own Health and Safety program in accordance with the Ontario Occupational Health & Safety Act. Should a personal injury occur on site that does not require an ambulance but does require the attention of a medical professional, the injured worker will be taken to a hospital. The closest hospital emergency room to Ernestown Wind Park is

Kingston General Hospital
+1 613-549-6666
76 Stuart Street, Kingston, ON
K7L 2V7, Canada

First aid supplies and maps to the local hospitals will be kept in the site management office. A listing of the project personnel trained in first aid/CPR will also be posted. Should a personal injury occur on site

that does require an ambulance, Project personnel will call 911 and assist the injured worker as required until emergency personnel arrive.

In all cases of personal injury, Ernestown Wind Park Inc. will be notified immediately. All incidents will be documented and kept on file. Documentation will include date of incident, date of reporting, name of reporter, name of injured, description of the incident, cause of the incident, actions taken, communications to outside groups and internal personnel and follow-up required, as required by the Health & Safety Regulations.

3.3 Hazardous Substance Spills

The following spills procedures are as outlined in the Ministry of Environment's (MOE) "Spills Reporting – A Guide to Reporting Spills and Discharges", May 2007. Spills and the types of spills that require reporting are defined in the Ontario Environmental Protection Act and Ontario Regulation 675/98 Classification and Exemption of Spills and Reporting of Discharges.

Spills are the unintended release/discharge of material to air, land or water. The most likely construction and operation spill scenarios include: the release of sediments to water bodies or wetlands, sewage from portable washrooms and hazardous materials (e.g. compressed gases and petroleum hydrocarbons) from containers or vehicles.

Spills prevention measures are documented in the Environmental Impact Study report. If a spill occurs, the following measures will be implemented:

- Evaluate the scene for risks to human health and safety
- Stop the spill, if it is safe to do so; contain and clean-up the spill, using on-site spill kit
- If there is immediate danger to human health, contact 911 for assistance, and notify anyone who may be directly impacted or is in harm's way
- Notify the Project Manager of the incident in all spill accidents
- If required, contact outside spill response contractor for assistance
- Document and report the spill to outside agencies, as required

A spill kit will be available on-site during the all phases of the project and will include absorbent pads, absorbent broom, polyethylene bags, neoprene gloves, protective goggles, plastic bin or metal drum, and multi-purpose granular absorbents.

Spills that could potentially occur during the life of the Project, and may need to be reported to the MOE include:

- Non-approved releases/discharges (including those to land, air and water)
- Discharge of fluids greater than 100 L from a vehicle
- Mineral oil releases greater than 100 L from an electrical transformer or gearbox
- Discharges (including sediment) to water bodies.

The Ministry of the Environment Spills Action Centre phone number (1-800-268-6060) will be posted at the site management office. Documentation for all spill incidents will be kept on file and sent to the Ministry of the Environment, as required. Documentation will include date of incident, date of reporting,

name of reporter, description of the incident, cause of the incident, type and amount spilled, actions taken, disposal of contaminated material, communications to outside groups and internal personnel and follow-up required.

4.0 Emergency Response Communications Protocol

4.1 Outgoing Communications in an Emergency

In the rare instance that the wind power facility exceeds operational parameters or there is an emergency, the appropriate regulatory agencies, the Municipality of Loyalist Township, the Town of Amherstview, the County of Lennox-Addington, local residents, and Aboriginal communities will be notified using the procedures outlined below.

If there is an emergency, the operator will contact the following representatives of Ernestown Wind Park Inc.:

Nhung Nguyen,

VP Development, Ernestown Wind Park Inc.
2300 Yonge Street, Suite 801
Toronto, Ontario, M4P 1V1
Phone: (416) 864-9977 x8288
Fax: (416) 864-9568
Email: nnguyen@horizonlegacy.com

Frank Belerique

Vice President, Ernestown Wind Park Inc.
2300 Yonge Street, Suite 801
Toronto, Ontario, M4P 1V1
Phone: (416) 864-9977 x8244
Fax: (416) 864-9568
Email: fbelerique@horizonlegacy.com

The following organizations will be contacted by the Ernestown Wind Park representative by phone within four hours of the occurrence of the emergency:

- The Ministry of the Environment (including the Spills Action Centre, if applicable);
- Municipality of Loyalist Township;
- Towns of Amherstview, Bath, and Odessa; and
- County of Lennox-Addington.
- A hard copy incident response report will be provided within 24 hours of phone or e-mail contact noting:
 - The parameter exceeded;
 - The magnitude of the exceedance; and
 - Mitigation measures implemented, including details of First Responders contact, if required.

The following will be contacted within four to eight hours of the operational exceedance or emergency:

- Stakeholders and local community members as applicable; and
- Aboriginal communities as applicable.

Local community members will be notified through mailings and a posting in local newspapers [in the Loyalist Township, Kingston and in a memo to the First Nations communities who are involved in the project] as necessary relative to the severity of the incident. Mailings will be made by hand if public notification is considered urgent. The Aboriginal communities identified above will be contacted to assign a key contact for emergency purposes and information will be posted in the local band office.

4.2 Receiving Communications from Public and Stakeholders

A dedicated 24-hour toll-free number has been established to receive communications from the public, stakeholders, Aboriginal communities, businesses, and regulatory agencies. A mailing address has also been provided and is available through all public documents. In these notices, it will be stipulated that in case of any emergency, to call 911 first, then to contact Ernestown Wind Park Inc.

A notice will be mailed to all stakeholders prior to engaging in project construction and installation activities that provides information on how they will be notified by Ernestown wind Park Inc. of the following:

- Changes to the project, or other relevant matters;
- How stakeholders can contact Ernestown Wind Park Inc. for information or to relay concerns about the project; and
- How Ernestown Wind Park Inc. will handle input from stakeholders.

An electronic communications database will be used to record information from calls and/or received mailings. In the case of complaints related to project activities, the complainant will be asked to provide the following information:

- Name / Address / Phone number / E-mail address (if applicable);
- Time and date of complaint;
- Location of problem;
- Details on the problem or complaint, including frequency; and
- Any other details.

Complainants' messages will be thoroughly documented during the initial call. The message will then be provided to the most appropriate contact. A response will be provided within a reasonable period of time. In addition, the District Manager of the Ministry of the Environment will be notified, in writing, of each environmental complaint. The notification will include:

- All of the information recorded about the complaint (listed above);
- Wind direction at the time of the incident related to the complaint;
- Actions taken to remediate the cause of the complaint, including other; and
- Proposed actions to prevent similar occurrences in the future.

Records of all complaints, actions taken and communications with the Ministry of the Environment will be kept in the communications database.

References

1. Ministry of the Environment: Technical Guide to Renewable Energy Approvals, 2011; Chapter 6, Section 8; Emergency Response and Communications Plans
2. Ministry of Natural Resources: Forest Fires Prevention Act, Ontario Regulation 207/96, revised 2012/04/01
3. Ministry of the Environment: Environmental Protection Act, Ontario Regulation 359/09, revised 2011/10/31
4. Samsung Renewable Energy Inc. and Pattern Energy: Decommissioning Plan Report for South Kent Wind Project, July 2011; section 2.4.1 Emergency Response and Communications Plan
5. Arran Wind Energy Project: Renewable Energy Approval Design and Operations Report, March 2011; Section 6 Communications And Emergency Response Plans