



Emergency Preparedness Plan

GRAND RENEWABLE WIND LP
HALDIMAND COUNTY ONTARIO
AUG 26, 2013

Contents

- ▶ 1.0 Introduction/Project Description
- ▶ 2.0 Emergency Management
 - Police Fire Ambulance / Hospital
- ▶ 3.0 Emergency Response Procedures
 - ▶ 3.1 Minor Injuries
 - ▶ 3.2 Critical Injuries
 - ▶ 3.3 Fire or Explosion
 - ▶ 3.4 Project Evacuation
 - ▶ 3.5 Communication
- ▶ 4.0 Emergency Response Phone Numbers



1.0 Introduction/Project Description



The Grand Renewable Wind Project (GRW) is a 150Mw commercial scale wind facility project to be developed by the Samsung C&T Canada Ltd Corporation. This project includes the construction and operation of 67 wind turbines, the installation and operation of associated collection lines and related facilities.

In addition to the construction activities associated with the project as set forth above, the transmission of the electricity will require construction and operation of a transmission line, together with interconnection facilities (substations) and other related facilities, linking the wind energy facility with power grid.

Samsung C&T's Commitment

Prior to and during construction Samsung C&T will ensure the following preparatory measures are undertaken to provide the safest possible work environment.

- Provide all workers and work vehicles with a copy of emergency numbers and emergency procedures to be carried and/or easily accessed within vehicles at all times
- Provide all workers with location of muster point for emergency situations
- Review training requirements with all personnel involved in the project
- Review the contents of this plan with all personnel involved in the project to familiarize them with their duties and responsibilities
- Ensure all workers are aware of the communication devices for emergencies, including emergency horns, cellular phones, two-way systems, etc.
- Conduct practice drills to train on-site personnel to carry out the correct response to an emergency condition
- Ensure all adequate safety equipment is available on-site and all personnel are using the appropriate Personal Protection Equipment (PPE).

2.0 Emergency Management Haldimand County Police, Fire, Ambulance

- ▶ Its **911** dispatch center provides computer-aided dispatch services related to law enforcement, fire, and emergency medical services.



- ▶ Police Emergency response is provided by Ontario Provincial Police



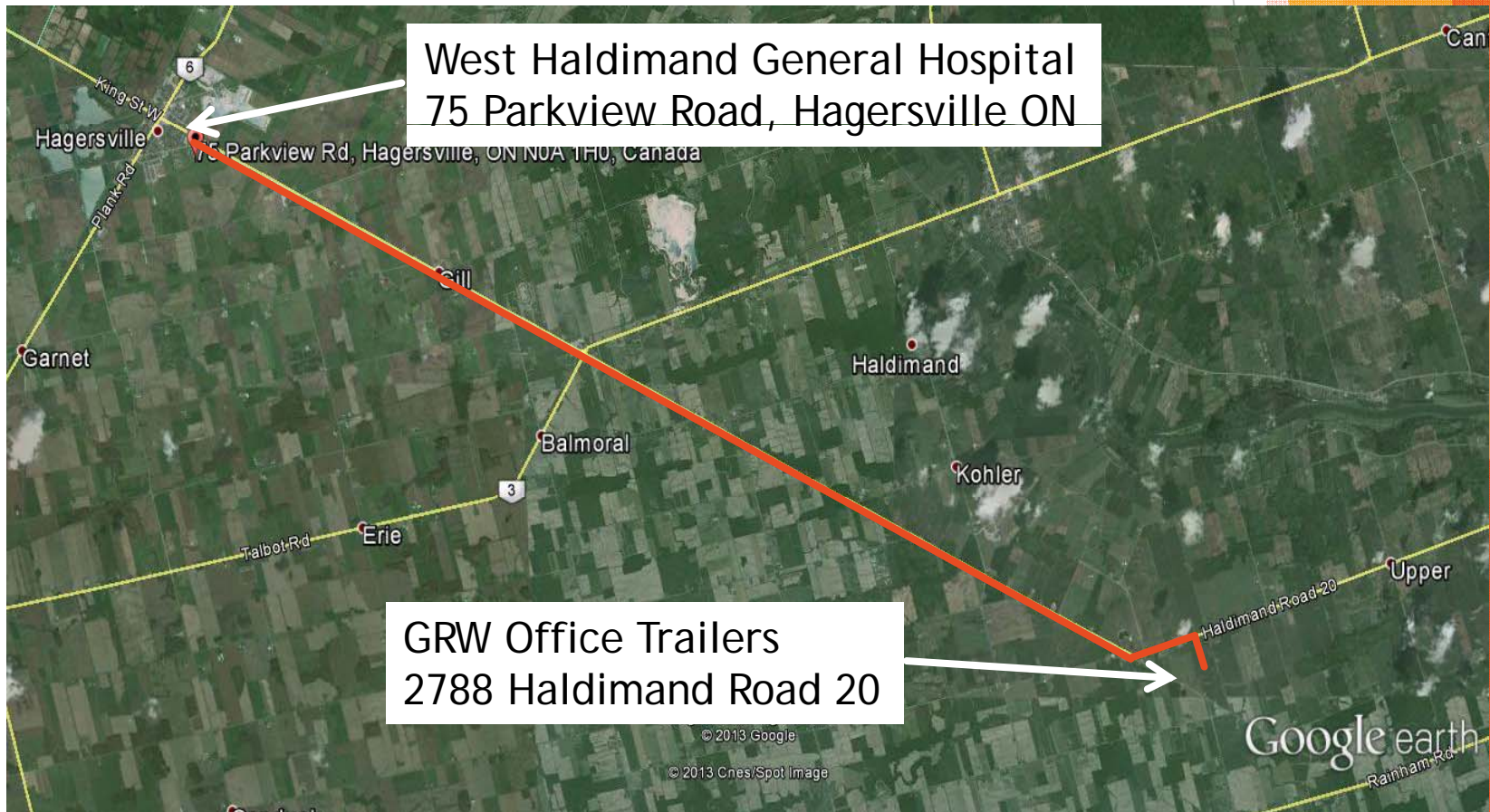
- ▶ Fire Response is provided by Haldimand County Fire Department, the nearest station is Fire Station #12



- ▶ Medical Emergency response is provided by Haldiman County Ambulance Service

Hospital

- ▶ West Haldimand General Hospital is 20 kms from the GRW project site and is the closest emergency medical facility.



3.0 Emergency Response Procedures

This Emergency Response Plan is intended to prevent injuries to personnel, minimize losses and facilitate rapid implementation of relief or emergency measures during incidents, disasters, natural calamities, civil disturbances, equipment failure or by human mistake or similar emergencies.

The following is a list of Potential events:

- ▶ Minor injuries
- ▶ Critical injuries
- ▶ Fire or explosion / Tower and Office Compound
- ▶ High angle rescue
- ▶ Breakdown / collapse
- ▶ Project evacuation

3.0 Emergency Response Procedures

In order to be best prepared for emergency situations, each Samsung C&T site vehicle will contain the following:

- First aid kit
- Flash light with extra batteries
- Sand, salt or non-clumping cat litter
- Vehicle fluids (windshield washer fluid, gas line antifreeze, motor oil, etc.)
- Tool kit including various screwdrivers, pliers, utility knife, ratchet socket set, a four-way wrench, vice grips, rolls of electrical tape and duct tape, seat belt cutter
- Tow rope
- Jumper cables
- Fire extinguisher
- Warning light or road flares

3.1 Minor Injuries

The primary responder for these events is the Emergency Care Provider (Qualified First Aiders) who will be supported by the site supervisor.

If a minor medical incident occurs (small cuts, abrasions, etc.) personnel should:

- ▶ Perform first aid, as necessary
- ▶ Consult the accident/injury reporting procedure to report the incident to the appropriate personnel



3.2 Critical Injuries

If a medical emergency exists, including the need for hospitalization or emergency services, personnel should:

- ▶ Contact the designated site supervisor
- ▶ Consult the emergency phone number list and request assistance immediately
- ▶ Perform first aid/CPR, as needed
- ▶ Stabilize the injured; decontaminate if necessary, and extricate only if the environment of the injured/ill person is dangerous or unsafe and if the rescuers are appropriately protected from potential hazards that might be encountered during the rescue
- ▶ Communicate directly with the 911 operators to determine the most appropriate way to transfer the injured person to the mainland/hospital
- ▶ When site emergency services personnel arrive, communicate all first aid activities that have occurred
- ▶ Transfer responsibility for the care of the injured/ill to the site emergency first aid providers
- ▶ Consult the accident/injury reporting procedure to report the incident to the appropriate personnel

“critically injured” means an injury of a serious nature that,
(a) places life in jeopardy,
(b) produces unconsciousness,
(c) results in substantial loss of blood,
(d) involves the fracture of a leg or arm but not a finger or toe,
(e) involves the amputation of a leg, arm, hand or foot but not a finger or toe,
(f) consists of burns to a major portion of the body, or
(g) causes the loss of sight in an eye.

R.R.O. 1990, Reg. 834, s. 1

3.3 Fire or Explosion

Turbine sites and the project as a whole will be monitored 24 hours/day by a security provider. However, effective human intervention at the time of a fire or explosion at the site of a wind turbine is often hampered by the extreme heights of wind turbine nacelles.



Extinguisher

Fire or Explosion - In Tower

In the event that a fire escapes the nacelle, personnel should:

- Evacuate the tower in a safe manner
- Do a head count to ensure all employees are accounted for
- Call 911
- Consult the accident/injury reporting procedure to report the incident to the appropriate personnel.

Fire or Explosion - Trailer Compound

All trailers / buildings will meet all federal, provincial and local building and safety codes. This includes the presence of fire emergency equipment, such as fire extinguishers (they will be marked by appropriate signage).

Building evacuation procedures will also be established and posted in easily visible areas.

In the event of a fire, personnel should:

- Initiate building evacuation procedures
- Use onsite fire extinguishers to contain the fire, within reason
 - DO NOT PUT YOURSELF AT RISK OF INJURY
- Consult the accident/injury reporting procedure to report the incident to the appropriate personnel.

If the fire cannot be contained, call 911 - Notify EMS personnel to make them aware of the situation.

3.4 Project Evacuation

It is not anticipated that site evacuation procedures will be implemented. However, in the event of adverse weather conditions, damage to facilities from fire or other catastrophic event, or other unforeseen conditions, personnel will be evacuated from the site.

An emergency evacuation route plan including all necessary details shall be produced and posted as part of the Contractors Plan

- ▶ An air horn will be blasted three times and all cellular phones will be called, signifying the need for all personnel and visitors to regroup at the designated emergency meeting place.
- ▶ Ensure all employees are advised of the Assembly Area
- ▶ Periodic drills will be conducted



3.5 Communication

The following will be the communication protocol for any emergency:

- ▶ Contractor communication will be by Two-way radio
- ▶ When Two-way radios are not used, communication will be by cell phone
- ▶ All emergency cell phone numbers will be listed and posted in each trailer and at each turbine once erected
- ▶ Monthly drills will be conducted to ensure connectivity and knowledge of procedures





4.0 Emergency Contact Phone Numbers

This page shall be conspicuously posted

AGENCY/COMPANY	CONTACT PHONE NUMBER
▶ Fire Department	911
▶ Police Department	911 or 1-905-772-3322
▶ Ambulance	911
▶ Union Gas emergency	1-877-969-0999
▶ Haldimand Co Hydro	1-905-765-5211
▶ Poison Control Center	1-800-268-9017 or 416-813-5900
▶ Ministry of Labour	1-877-202-0008
▶ Ministry of the Environment	1-866-663-8477
▶ Samsung C&T HSE Manager	1-647-295-4447