



**South Kent Wind Project
Construction Emergency Response Plan**

Report No:

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SOUTH KENT WIND PROJECT
Chatham-Kent Municipality, Ontario Canada

EMERGENCY RESPONSE PLAN

1.0 INTRODUCTION

RES Canada Construction LP (RES) is constructing this 270 MW wind farm located on private agricultural land in the Municipality of Chatham-Kent, Ontario. The site is over 50 km long, between the towns of Ridgetown, and Tilbury.

2.0 PROJECT DESCRIPTION

The works comprises of construction of plant infrastructure for 124 Siemens turbines including 72 SWT 2.221-101, 51 SWT 2.16-101, and 1 1.903-101 wind turbines Included in the project as well there will be , 2 substations, an interconnect, maintenance (O&M) building, access roads, 200 km of buried collections lines and 34 km of overhead transmission lines

3.0 PROCEDURE

3.1 *Notification Procedure*

All emergency situations (fire, injury/illness, vehicle crash, etc) should immediately be reported. The following **7-step Emergency Notification Procedure** should be used:

1. NOTIFY SUPERVISOR:

Contact the nearest site supervisor, and then your own supervisor.

2. DESCRIBE:

Describe the emergency situation. Typically the categories below can be used:

- a) Fatality;
 - b) Major illness (heart attack, not breathing, unconscious, etc.);
 - c) Major injury (broken bone, loss of limb, severe cuts/bleeding, etc.);
 - d) Minor injury (twisted ankle, foreign body in eyes, minor cuts, etc.);
 - e) Bite/sting (snake, scorpion, etc.);
 - f) Weather effect (effects of heat, sun, cold, wind chill, lightning strike, etc.);
- and/or:
- g) Incident type (fall, crush, vehicle crash, fire, electric shock, etc.).

3. LOCATION:

Give the supervisor the location of the emergency, by referring to the nearest turbine, structure or road junction.

4. CALL EMERGENCY SERVICES:

The supervisor(s) will arrange for the required emergency service to respond, by dialing 911. Give the site name, the 911 address and directions to the operator, as well as describe the emergency. For non-urgent medical attention the supervisor should arrange for site transport to take the injured to hospital, and notify the hospital that they are on their way.

5. NOTIFY RES:

The supervisor(s) will contact the RES site project Manager, Liam Duffy, or Safety Manager, TBA, who will assist at the location of the emergency. Jointly, the supervisors will arrange for a trained first aider to attend the scene of the emergency, if required. The names of all first aiders should be made available to all the site supervisors – first aiders should be identified by a badge on their hard hat.

6. COORDINATE:

The supervisor(s) will send an employee to the nearest site access point to meet the emergency services, and escort them to the location of the emergency.

7. ACCOMPANY:

The supervisor(s) will continue to assist with the situation on site, and one of the supervisors will accompany any injured personnel to the hospital. He will stay until examination I(including a drug & alcohol test) is complete, so that a full report including the extent of the injuries can be made. The employer can later require the injured to make an appointment to see the Company Doctor if confirmation of the extent or nature of injuries, treatment or disability is required.

3.2 *Information Regarding Local Medical Facilities for Non-Emergency Work Related Injuries or Illnesses*

RES Canada site management has identified the following local doctors and “walk-in” clinics which would be available for non-emergency work related injuries or illnesses.

Tilbury Walk-in Clinic

15 Mill St. E, Tibury

519 – 682 – 3699

3.3 *Site Evacuation Procedure*

1. Personnel empowered to order evacuation / shutdowns of site are:
 - Supervisors of individual contractors, who may instruct their own people to evacuate;
 - RES supervisors, who may instruct ALL personnel to evacuate;
2. When instructed, evacuate site via nearest access to public road, and assemble at the site entrance at.
3. In case of fire, try to remain upwind of it.
4. The RES site manager (or designated person) will arrange a head count of all personnel. This will be done by the supervisors from each contractor carrying out their own head count, and advising RES of the result.

3.4 *Fire Prevention Procedures*

3.4.1 Construction Site Fire Hazards

Possible fire situations include grass fires due to lightning, failure of overhead lines, and construction-related accidents such as sparks from cutting operations, and vehicular operation over dry vegetated areas. The most common hot work will be grinding and will be overseen by a fire watch.

Personnel shall follow all hot works procedures at all times. No vehicles shall be allowed off of site roads or turbine locations unless otherwise authorized by RES to do so. Personnel shall be made aware of other risks and rules upon site orientation which is required prior to being allowed to work onsite.

3.4.2 Fire Prevention during the Construction

In order to minimize fire risk, the following measures will be implemented:

- **Personnel training** – All site personnel will be trained to make them aware of the dangers associated with fires, and how to respond in case of a fire.
- **No open fires** – no exceptions.
- **Hot work** – to be carried out to approved procedures and within graveled areas only.
- **Fire-breaks** – each 20 feet wide road will be flanked either side by a 5-foot wide shoulder that has no vegetation. Each turbine location shall have an area of approximately 125 feet by 150 feet to allow the assembly of rotors and erection of the turbine without the need for vehicles to travel off-road. This area will be rolled flat with the majority of significant vegetation removed. The road shoulders shall (most likely) be returned to farmland on completion of the project. Each turbine and transformer shall be left with a minimum 5-foot wide gravel path surrounding them.

In order to suppress possible fires, the following measures will be implemented:

- **Portable fire extinguishers** – to be held on site by individual sub-contractors (one per work truck).
- **Off-Site Fire Department Support** – Any fire not immediately contained and/or suppressed will call for local fire department support.
- **Water availability** – The Laydown will have running water.

3.5 *Emergency Response Plan Holders*

This plan will be held both in the RES trailer and by each of the contractors. In addition, copies shall be sent to the respective emergency services. A concise plan shall be in each work truck, and also one placed in each turbine tower as they are erected. A concise plan shall be issued to each operative as part of the Site Orientation Pack.

3.6 *Location of Material Safety Data Sheets*

Each subcontractor is required to maintain listings of all materials that they are using which may be flammable or hazardous to health. Therefore, refer to each subcontractor for the most comprehensive and up-to-date listing, together with the Material Safety Data Sheets for each one. The location of these within each subcontractor's trailer or office should be clearly indicated.

4.0 **RELEVANT EMERGENCY SERVICES**

- **Fire Station 11** will respond to any emergency call (fire or paramedic), and can be contacted by dialing 911.

- **Chatham-Kent Health Alliance Hospital**: is the nearest 24/7 hospital with ER capability, and can be reached in 30 minutes by car. Ambulance service is available also.

- **Chatham Kent Police Station** : can be contacted by dialing 911.

4.1 *Summary of Emergency Services for South Kent Wind Project*

- Fire Station TBA, Fire and paramedic response	TBA, ON Dial 911 519 436 3270
- Chatham Kent Police Station	TBA, ON Dial 911 519 352 1234 ext 0
- Ontario Provincial Police (Ontario Highways)	519 352 1122
- Chatham Kent Health Alliance (Hospital) 106 Emma St.	Chatham, ON Dial 911 519 352 6400 (ER)

Contact details of Site Safety Supervisors and trained first aiders and other personnel are listed on a Site Contact sheet that which is attached and updated biweekly.

South Kent Wind Project Site Contacts

February 2013

Company	Name	Office	Cell
RES Project Manager	Liam Duffy	519-689-4553	905-515-0471
RES Safety Inspector	Chris Dupon	519-689-4553	647-262-1695
RES Safety Inspector	Bela Trebic	519-689-4553	403-741-6398
RES Project Engineer	Brendan Caputo	519-689-4553	613-330-8444
RES Project Engineer	Heidi Lamarche	519-689-4553	519-807-0466
RES Environmental Supervisor	Viola Dupuis-Redshaw	519-689-4553	416-455-2754
RES Project Coordinator	Stephanie Alkier	519-689-4553	807-708-7214

South Kent Wind Project First Aid Qualified Personnel

Date of issue February, 2013

RES First Aiders

RES Project Manager	Liam Duffy	807-251-1264
RES Safety Inspector	Chris Dupon	647-262-1695
RES Safety Inspector	Bela Trebic	403-741-6398
RES Project Engineer	Brendan Caputo	613-330-8444
RES Project Engineer	Heidi Lamarche	519-807-0466
RES Environmental Supervisor	Viola Dupuis-Redshaw	416-455-2754
RES Project Coordinator	Stephanie Alkier	807-708-7214

Appendix 1 – Concise Emergency Response Plan

South Kent Wind Project Concise Emergency Response Plan

How to Deal With an Emergency Situation

Use these notes in case of injury, illness or fire, and also in case of evacuation.

***** ALWAYS KNOW YOUR LOCATION *****

(Each turbine location is numbered, for example T01, T13, etc.)

In case of INJURY or ILLNESS:

1. Call a supervisor. Give location of the emergency and describe the injury or illness. If you cannot contact a supervisor, call the RES office immediately. The RES Office will gather information and contact 911.
2. Notify RES Safety Manager or RES personnel immediately. All supervisors carry a cell phone and/or a two-way radio. Describe the emergency to the supervisor. Supervisor will call 911 and will arrange for further assistance (e.g. first aid, advice main gate, etc.).

RES Site Management:	RES Office	TBA
	Liam Duffy, Project Manager	905-515-0471
	TBA, Safety Manager	647-262-1695
	Bela Trebic Safety Inspector	403-741-6398
	Viola Dupuis-Redshaw, Environ. Supr.	416 455 2754
	Brendan Caputo, Project Engineer	613 330 8444
	Heidi Lamarche, Project Engineer	519-807-0466

3. Dispatch SOMEONE ELSE to the main gate to meet and escort the emergency services to your location. You **STAY WITH THE ACCIDENT VICTIM**.
4. You (or supervisor) go with the accident victim to the hospital.

In case of FIRE:

1. Call the fire department by dialing 911 and give the location of the fire.
2. Notify supervisors (as above).
3. Immediately clear the area of all personnel and, if possible, vehicles and flammables. If you are trained in fire safety, and the fire is small, attempt to put the fire out with an extinguisher. **DO NOT PUT YOURSELF AT RISK.**
4. Await the arrival of the fire department.

In case of SEVERE or EXTREME WEATHER:

1. Prepare to evacuate the site. Supervisors will initiate and co-ordinate the evacuation. **FOLLOW THEIR INSTRUCTIONS.**

In any emergency situation, keep calm and don't panic. Give clear and direct information and directions. The map on the back of this card shows you the layout of the roads and turbines on the wind farm, and also your nearest emergency site exit.



SOUTH KENT WIND PROJECT RIDGETOWN, ONTARIO

911 ADDRESS LIST

Turbine	Site Road	911 Address					
				29	3-12	10612	Welch Line
				30	3-12	10612	Welch Line
2	3-30	11509	Eds Line	31	3-7	10427	Knights Line
3	3-29	11339	Eds Line	32	3-5	21356	Harwich Road
4	3-29	11339	Eds Line	33	3-5	21356	Harwich Road
5	3-16	11091	Brush Line	33	3-5	21356	Harwich Road
9	3-17	19565	Mull Road	34	3-6	10033	Drury Line
7	3-18			38	Road 2-	21025	Communication Road
8	3-18			37	24	21025	Communication Road
6	3-17			39	Road 2-	9538	Burk Line
167	3-17			40	25	9538	Burk Line
10	3-36	21094	Shewburg Road	44	Road 2-	9264	Horton Line
12	3-38	11796	Cofell Line	45	23	9264	Horton Line
101	3-38			46		9264	Horton Line
13	3-24	20865	Base Road		Road 2-		
13	3-24			52	22	9126	Horton Line
14	3-25	11508	Cofell Line		Road 2-		
92	3-25	11508	Cofell Line	53	26	20766	Fargo Road
16	3-21	11176	Burk Line		Road 2-		
17	3-20	11019	Burk Line	54	15	8642	Gagner Line
18	3-10	11093	Knights Line		Road 2-		
19	3-14	11075	Welch Line	55	18	21564	Lagoon Road
20	3-14	11075	Welch Line	55			Infield Crossing
21	3-14	11075	Welch Line	56	Road 2-	8662	Horton Line
22	3-13	11036	Welch Line	57	21	8662	Horton Line
23	3-9	10845	Knights Line	58		8662	Horton Line
24	3-9	10845	Knights Line	60	Road 2-	8180	Tenth Line
26	3-12	10612	Welch Line		16		
28	3-12	10612	Welch Line	61	Road 2-	7351	Ninth Line
					9		

63	Road 2-6	6779	Seventh Line West	94	Road 2-10	7141	Tenth Line
121		6779	Seventh Line West	95	Road 1-19	22602	Cooper Road
62		6779	Seventh Line West	97		8141	Ninth Line
64	Road 2-5	6403	Seventh Line West	97	Road 2-13		
148		6403	Seventh Line West	98	Road 2-8	7128	Eighth Line
				98			
65	Road 2-7	6888	Eighth Line	99	Road 2-2	5879	Sixth Line West
66	Road 2-4	6143	Seventh Line West	100	Road 2-18	8463	Eleventh Line
67	Road 2-1	5820	Sixth Line West	104	3-34	12029	New Scotland Line
				109	3-3	20321	Communication Road
68	Road 2-3	5717	Seventh Line West	109			
69	Road 1-18	22319	Cooper Road	109			
70	1-17	21955	Port Road	111	Road 2-12	21707	Bloomfield Road
72	Road 1-13	4547	Morris Line	111			
71		4547	Morris Line	115	Road 1-8	3805	Middle Line
73	Road 1-12	4557	Pollard Line	150			Middle Line
74	Road 1-10	22889	Oak Road	113			Middle Line
78	Road 1-9	3690	Middle Line	116	Road 1-6	23212	Davidson Road
77		3690	Middle Line	118	3-32	18895	Kent Bridge Road
75		3690	Middle Line	120	3-2	20399	Communication Road
132		3690	Middle Line	42			
79	Road 1-7	23410	Davidson Road	36			
80	Road 1-3	3086	Gray Line	35			
81	Road 1-2	3110	Rosedale Line	108			
82	Road 1-1	22926	Coatsworth Road	41	3-1		
87	Road 1-16	21698	Irwin Road	41			
91	3-23	21097	Base Road	122	Road 1-4	3458	Rosedale Line
93	3-27	19819	Kent Bridge Road	124	Road 1-11	22456	Valetta Road
				125	Road 1-20	4908	Gleeson Line
				126	Road 1-21	5048	Gleeson Line
				133	3-15	20491	Mull Road

138	3-31	19259	Kent Bridge Road		22		
1							
139	3-19	11022	Sinclair Road	162	Road 2-20	21658	Fargo Road
140		19105	Communication Road	163	Road 2-14	8279	Ninth Line
140	3-4	12119	Beechwood Line				
145	3-35			164	Road 2-17	8359	Tenth Line
149	Road 2-11	21997	Bloomfield Road	166	3-28	19685	Kent Bridge Road
152		20136	Kent Bridge Road	168	3-37	11793	Cofell Line
102		20136	Kent Bridge Road	171	3-33	11369	New Scotland Line
				107		11369	New Scotland Line
154	Road 1-4	3081	Gray Line	106		11369	New Scotland Line
155	3-11	10617	Welch Line	173	3-22	11197	Burk Line
135		10617	Welch Line	174	Road 1-15	5262	Middle Line
156	3-8	10577	Knights Line	175		5262	Middle Line
161	Road 1-	5322	Gleeson Line		Road 1-14	5106	Middle Line
				176			

