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NATION RISE WIND FARM

Spill Control and Response Plan

Nation Rise Wind Farm Limited Partnership

Document No.: 10021027-CAMO-R-15
Issue: A**, Status:** FINAL
Date: 21 February 2019

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Project name:	Nation Rise Wind Farm	DNV GL - Energy
Report title:	Spill Control and Response Plan	Advisory Americas
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Date of issue:	21 February 2019	
Project No.:	10021027	
Document No.:	10021027-CAMO-R-15	
Issue/Status	A/FINAL	

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Issue	Date	Reason for Issue	Prepared by	Verified by	Approved by
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List of abbreviations

Abbreviation	Meaning
DNV GL	GL Garrad Hassan Canada Inc.
EPA	*Environmental Protection Act*
IESO	Independent Electricity System Operator
LRP	Large Renewable Procurement
MECP	Ministry of the Environment, Conservation and Parks
MW	Megawatt
O.Reg.	Ontario Regulation
REA	Renewable Energy Approval

1 PREAMBLE

Nation Rise Wind Farm Limited Partnership (the "Proponent") is proposing to develop the Nation Rise Wind Farm (the "Project") which is subject to *Ontario Regulation* (*O. Reg.*) *359/09* (Renewable Energy Approvals (REA) [1] under Part V.0.1 of the Ontario *Environmental Protection Act* (EPA)), as amended. The Proponent was awarded a contract for this Project in March 2016 from the Independent Electricity System Operator (IESO) under the Large Renewable Procurement (LRP), and has received its Renewable Energy Approval (REA) [0871-AV3TFM] from the Ontario Ministry of the Environment, Conservation and Parks (MECP, formerly the Ontario Ministry of the Environment and Climate Change) on 4 May 2018 [2]. The Project will be owned and operated by Nation Rise Wind Farm Limited Partnership, a wholly-owned subsidiary of EDP Renewables Canada Ltd.

The following sections of this Spill Control and Response Plan describe the procedure for responding to potential spill events. This plan should be read in conjunction with the Erosion and Sediment Control Plan for the Project [3], which outlines preventative measures against potential spills.

2 SPILL CONTROL AND RESPONSE

2.1 Procedures

This procedure includes internal and external notification procedures for initiating a response. For minor spills defined as one that poses no significant harm or threat to human health and safety or to the environment, Project personnel will promptly clean up any visible discharge. Minor spills are generally those where:

- The quantity of fuel/oil discharged is not more than 100 Litres and is in an area restricted to the public;
- Discharged material is easily stopped and controlled at the same time of discharge;
- Discharge is located near the source;
- Discharge material is not likely to reach water, groundwater, or field drains;
- There is little risk to human health and safety;
- There is little risk of fire or explosion;
- Arrangements for remediation are made immediately, and
- Records of the spill are maintained.

Major spills are spills that do not meet one or more of the minor spill characteristics described above.

The following actions are recommended in response to the release of pollutant:

1. **Stop the Spill**
    - If possible, up-right a container, close the valve, shut down equipment, or take whatever actions are possible to stop any release. If conditions are hazardous (for example, fire or potential explosion), do not approach.
    - If safety is not an issue, call other nearby employees for assistance in stopping the release.
2. **Warn Others**
    - Notify the Site Management Team
    - Keep others clear of the area.
3. **Isolate the Spill Area**
    - Use booms or sandbags, dig small trenches, or place absorbent pads to stop the spread.
    - Take immediate action to prevent the spill from reaching offsite or surface waters.
        - Place booms or pads, dig a diversion ditch, or use soil to form a berm.

- If the release reaches water, attempt to place booms to contain the release, or, if necessary, block drainage downstream of spill to prevent further discharge.

- A list of potential spill response equipment and materials is provided in Section 2.2.

4. **Minimize Exposure and Implement Clean-Up**

    - Limit the spread as much as possible by placing absorbent materials around the spill.
    - Do not stand in the spilled material while responding.
    - Shovels, brooms and mobile equipment will be used to thoroughly clean the area where the spill occurred. Mobile equipment will be used to install dams in streams or waterways to limit migration potential, as needed.
    - Oil contaminated soil in the area will be excavated as needed. All materials and oil contaminated soil will be transported to a secured storage area on site, placed in labeled secondary containment, and then properly transported off site by a MECP-approved 'waste system' hauler for disposal at a facility approved by MECP to receive the subject waste.

The primary concerns for response are as follows:

1) Ensure the safety of all employees and the public;
2) Notify appropriate emergency services for proper response:
    - Site Management Team will communicate information to client and necessary emergency services, as appropriate;
3) Get emergency assistance in the event of injury/exposure associated with the event;
4) Prevent spill from entering water systems;
5) Minimize site personnel exposure by only allowing trained employees to respond;
6) Investigate and develop root cause analysis;
7) Arrange for timely cleanup; and
8) All spent materials and oil contaminated soil will be transported off site by an MECP-approved hauler for the subject waste and disposed at an approved facility.

2.2 Equipment and Materials

The list below identifies some of the spill response equipment recommended to be maintained onsite; however, it does not constitute an exhaustive list and the construction contractor of the Project will provide an updated list prior to construction.

- Communication equipment, such as radios and cell phones;
- Standard PPE (Hard hat, safety glasses, work gloves, safety boots)
- Chemical resistant gloves;

- Safety googles and face shields;
- Chemical resistant coverall;
- Universal liquid spill kit;
- Salvage drum for transportation of hazardous goods;
- Boxes of square absorbents;
- Boxes of roll(s) absorbents;
- Fire extinguishers; and
- First aid kits.

2.3 Spill Reporting

2.3.1 External Notifications

The following stakeholders will be notified within 24 hours of any reportable spills of pollutants as per *O. Reg. 675/98*:

- Ontario's Spills Action Centre (toll-free number 1-800-268-6060);
- the local municipality;
- the owner of the substance (if known); and
- the person in control of the substance (if known).

2.3.2 Spill Reporting Requirements

For any reportable spills of pollutants as per *O. Reg. 675/98*, the following information will be reported:

- Name and phone number;
- Name and phone number of the person or company in control of the product spilled;
- Date, time and location of the spill;
- Duration of the spill (if known) and whether the spill is ongoing;
- Type and quantity of pollutant spilled, including hazard level or toxicity information;
- Source of the spill and information on the cause;
- Description of adverse effects;
- Environmental conditions that affect the spill (weather, traffic, etc.);
- Actions being taken to respond; and
- Other agencies and parties responding.

A template of the spill reporting form is provided in Appendix A. Finally, once active, the Project will record all reportable spills on the template Project spill log, provided in Appendix B.

3 REFERENCES

[1] Ontario Regulation 359/09, made under the Environmental Protection Act, Renewable Energy Approvals under Part 1.0 of the Act.

[2] Ontario Ministry of the Environment and Climate Change, Renewable Energy Approval (0871-AV3TFM) – Nation Rise Wind Farm, 4 May 2018.

[3] Tulloch Engineering Ltd., Erosion and Sediment Control Plan – Nation Rise Wind Project, 4 February 2019.

APPENDIX A – SPILL REPORTING FORM

In the event of a reportable spill of pollutant, specific information must be collected. Please fill out the following form immediately following the event and notify the Project Site Manager.

Spill Report

Name and phone number of person reporting spill:
Name and phone number of the person or company in control of the product spilled:
Date, time, and location of the spill:
Date: Time (24-hour clock): Location of release:
Duration of the spill (if known) and whether the spill is ongoing:
Type and quantity of pollutant spilled, including hazard level or toxicity information:
Type: Amount: Hazard level or toxicity information:

Source of the spill and information on the cause:
Description of adverse effects:
Environmental conditions that affect the spill (weather, traffic, etc.):
Actions being taken to respond:
Other agencies and parties responding:
Name: Phone: Involvement:
Other Information, as appropriate:

APPENDIX B – PROJECT SPILL LOG

Summarize any reportable spill in this log:

Date	Material	Spill Amount (litres)	Cause	Reportable Y/N

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