

Preliminary Spill Prevention, Control and Countermeasure Plan

November 2017

Baron Winds Project

Towns of Cohocton, Dansville, Fremont, and Wayland in Steuben County, New York

Prepared for:

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1.0 PROFESSIONAL ENGINEER CERTIFICATION (§112.3(d))

I hereby attest that I am familiar with the requirements of 40 CFR Part 112; that I or my agent has visited and examined the Baron Winds Project facility; that the Spill Prevention, Control and Countermeasures (SPCC) Plan has been prepared in accordance with good engineering practice, including the consideration of applicable industry standards, and with the requirements of 40 CFR Part 112; that procedures for required inspections and testing have been established; and that the plan is adequate for the facility.

Thomas FJ Dussing, P.E.

Signature of Licensed Professional Engineer

Date

068323

Registration No.

NY

State

2.0 MANAGEMENT APPROVAL AND COMMITMENT (§112.7(k)(2)(ii)(B))

Baron Winds LLC, a wholly owned subsidiary of EverPower Wind Holdings, Inc. (Owner), is committed to the prevention of discharges of oil to navigable waters and the environment. This SPCC Plan has the full approval of management with authority to commit the necessary resources to fully implement the SPCC Plan, including the Oil Spill Contingency Plan per 40 CFR Part 109. All personnel with responsibilities covered by this plan will be expected to become familiar and act in accordance with its provisions

In accordance with the requirements of 40 CFR §112.7(k)(2)(ii)(B), Baron Winds LLC is committed to provide the manpower, equipment and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful.

Name Title

Signature Date

3.0 PLAN REVIEW AND AMENDMENT (§112.5(a)-(b))

In accordance with 40 CFR §112.5(a), the SPCC Plan will be amended when there is a change to the design, construction, operation, or maintenance that materially affects the Baron Winds Project’s potential for a discharge. Examples of changes that may require amendment of the SPCC Plan include, but are not limited to: the installation or removal of wind turbine generator(s) or other oil storage; modifications to secondary containment methods; or the revision of standard operations and maintenance procedures.

In accordance with 40 CFR §112.5(b), a review and evaluation of the SPCC Plan is completed at least once every five years. As a result of this review and evaluation, Baron Winds LLC, a subsidiary of EverPower Wind Holdings, Inc., will amend the SPCC Plan within six months of the review to include more effective prevention and control technology if such technology has been field-proven at the time of the review and will significantly reduce the likelihood of a discharge from the facility.

Any technical amendment to the SPCC Plan shall be certified by a Professional Engineer within six months after a change in the facility design, construction, operation, or maintenance occurs which materially affects the facility’s potential for the discharge of oil as defined in 40 CFR §112.1(b) from the facility. Any amendment must be implemented as soon as possible, but not later than six months following the preparation of any amendment.

I have completed review and evaluation of the SPCC Plan for the Baron Winds Project on the date noted. The SPCC Plan will or will not be amended as indicated below.

Date of Review	Name and Title of Reviewer	Signature of Reviewer	Will or Will Not Amend SPCC Plan
			<input type="checkbox"/> Will Amend <input type="checkbox"/> Will Not Amend
			<input type="checkbox"/> Will Amend <input type="checkbox"/> Will Not Amend
			<input type="checkbox"/> Will Amend <input type="checkbox"/> Will Not Amend
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4.0 INTRODUCTION & PLAN ORGANIZATION

This Spill Prevention, Control and Countermeasures Plan (Plan) describes the procedures, methods, and equipment used at Baron Winds LLC, a subsidiary of EverPower Wind Holdings, Inc. (Owner), to prevent the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines or to any other location that may affect other natural water resources of the United States from the Baron Winds Project (Project). Along with describing the counter measures used within the Project, the Plan establishes inspection, reporting, training, and recordkeeping requirements for the aboveground oil storage.

This Plan is organized to follow the requirements of 40 CFR §112.7.

5.0 CONFORMANCE WITH 40 CFR PART 112 (§112.7(a)(1)-(2))

The Project will conform to the requirements of 40 CFR Part 112. Oil-filled electrical equipment at the site that do not have sufficient secondary containment is expected to include various wind turbine generator (WTG) components, typically; the gear box, hydraulic unit, yaw gear motor, and pitch gear motor, as well as the pad mounted transformers adjacent to or within each WTG. Therefore, the alternative requirements for qualified oil-filled operational equipment under §112.7(k) will be implemented as discussed in Section 16.0 of this Plan. All other containers at the site have sufficient secondary containment. Inspection, operation and maintenance, training and spill response procedures and other requirements of the 40 CFR Part 112 are described in this document.

6.0 DESCRIPTION OF THE PROJECT (§112.7(a)(3))

The Owner will construct a wind-powered generating facility in the Towns of Cohocton, Dansville, Fremont, and Wayland in Steuben County, New York (See Regional Project Location Map in Appendix A). The Project site is roughly bounded by State Route 390 to the north and northeast, State Route 86 to the south and County Route 36 to the west and covers approximately 16,660 acres.

The Project will consist of up to 76 utility scale wind turbines with a total nameplate generating capacity of up to 300 megawatts (MW). The wind turbine model proposed for the Project is not yet determined. However, each wind turbine consists of three major mechanical components: the tower, nacelle, and rotor. Other proposed components of the Project include: access roads, collection lines, meteorological towers, an operation and maintenance (O&M) building, two temporary construction staging/laydown areas, collection substation and point of interconnect (POI) substation.

6.1 Oil Storage (§112.7(a)(3)(i))

In general, the oil containers or oil-filled operational equipment subject to 40 CFR Part 112 and anticipated by this Plan are as follows:

- Operation equipment located inside the wind turbine structures listed in Section 6.1.1 below;
- Electrical transformers at each turbine location (i.e., pad-mounted transformers) and the substation; and
- Storage of oil products at the O&M Facility.

Each oil storage area is described in more detail below and summarized in Table 1. Oil Storage and Drainage Maps will be developed for inclusion in Appendix A following the development of construction level drawings. These maps will identify the locations of oil storage, transfer areas and direction of flow if an oil discharge were to occur.

6.1.1 Wind Turbine Generators

Several types of oil-filled components are expected to be located at each of the 76 WTGs:

- Gear Box: Gear boxes and the ancillary lubrication system contain approximately [TBD] gallons of lubricating/gear/turbine oil and are located in a turbine tower enclosure (nacelle).
- Hydraulic Unit: The hydraulic unit contains approximately [TBD] gallons of oil and is located in the nacelle.
- Yaw Gear Motor: The yaw gear motor is located in the nacelle and contains multiple gear boxes, each with [TBD] gallons of lubricating oil, for a total of [TBD] gallons per WTG.
- Pitch Motor: The pitch motor, located in the nose cone, contains multiple gear boxes, each with [TBD] gallons of oil, for a total of [TBD] gallons of lubricating oil per WTG.
- Each WTG installation includes an internal or external pad mounted step-up transformer and each contains approximately [TBD] gallons of mineral oil.

6.1.2 O&M Building

The O&M building for the Project is anticipated to store at most [TBD] 55-gallon drums of lubricating and hydraulic oils.

6.1.3 Substation

The substation is expected to include a transformer that will contain greater than 55 gallons of mineral oil.

Table 1. Summary of Oil Containers and Equipment

Storage Item	Number of Units	Unit Capacity (Gallons)	Total Capacity (Gallons)	Anticipated Oil Product Stored
Oil-Filled Equipment				
Substation Transformer	TBD	TBD	TBD	Mineral Oil
Pad Mounted Transformers	76	TBD	TBD	Mineral Oil
WTG Gear Boxes	76	TBD	TBD	Lubricating Oils
WTG Hydraulic Unit	76	TBD	TBD	Hydraulic Oil
WTG Yaw Gear Motor	TBD	TBD	TBD	Lubricating Oils
WTG Pitch Gear Motor	TBD	TBD	TBD	Lubricating Oils
Oil Storage Containers				
55-gallon drums	TBD	55	TBD	Hydraulic and Lubricating Oils
Total Project Storage Capacity: Approximately TBD Gallons				

Drainage and Water Bodies

The majority of the Study Area is located in the Chemung watershed (USGS Hydrologic Unit 02050105), with the southernmost quarter of the Study Area occurring within the Tioga watershed (USGS Hydrologic Unit 02050104) and the northwestern portion in the Upper Genesee watershed (USGS Hydrologic Unit 04130002) (NYSDEC, 2016). Most of the surface hydrology in the Project Area is generated by precipitation and surface water runoff from adjacent land.

Various drainage ways exist within the Project site. Neil Creek is a Class C(TS) stream that begins at NYSDEC Wetland in the central region of the Project. The stream collects water from an NYSDEC wetland and surrounding hill runoff and flows south-southeast until it connects to Castle Creek, approximately 3.25 miles east of the nearest section of the Study Area. Castle Creek then flows into the Cohocton River which ultimately drains into the Chemung River,

approximately 30 miles southeast of the Project. Surface water within the most southern section of the Project collects through unnamed tributaries to Carrington Creek and Big Creek. This area is within the Tioga watershed and ultimately flows downstream to the Chemung River. During the permitting for construction of the Project several wetlands will be delineated. These wetlands will be shown on the Site and Water Resources Maps to be included in Appendix A.

Oil-filled containers associated with the Project are not expected to be located immediately adjacent to wetlands or other water bodies. The WTG and associated pad mounted transformers that are within 300 feet of a delineated wetland are identified in Table 2. The remaining WTG, pad mounted transformers, substation and O&M building are greater than 300 feet from a delineated wetland. All of the oil-filled containers are greater than 300 feet from a stream. (See Site and Water Resources Maps in Appendix A).

Table 2. WTG and Pad Mounted Transformers within 300 feet of a Waterbody

WTG & Pad Mounted Transformer	Distance to Delineated Wetland (feet)	Direction of Wetland from WTG
T86	192	North
T86	195	Northeast
T72	178	Northwest
T89	145	South
T79	116	East
T93	70	East
T71	201	Northeast
T70	249	West
T70	152	Northeast
T67	114	Southwest
T5	183	South
T49	86	West
T74	128	Northwest

6.2 Loading, Unloading and Transfers of Oil (§112.7(a)(3)(ii))

It is expected that loading and unloading of 55-gallon drums at the O&M building will be done using a pallet and fork lift. The delivery vehicle will park in the driveway outside of the storage location. A drain cover will be placed over the floor drain as applicable. A fork lift will remove the pallet from the delivery vehicles and take the pallet to the storage location where the drums will be manually transferred to the spill containment pallets.

It is expected that oils from the drums will be transferred to the transformers and turbines using a hand pump to transfer oil from the 55-gallon drum into a smaller container. The container will be placed in a vehicle and driven to the transformer or turbine site. If the oil is for use in the nacelle or nose cone, the container will be carried up the tower in a covered bag that will contain any leaks from the container.

When oil from the oil-filled equipment in the WTG or transformers needs to be replaced, a company with appropriate training and certifications in oil handling will be contracted to complete this task.

6.3 Discharge or Drainage Controls (§112.7(a)(3)(iii))

Secondary containment and procedures to control a discharge for each part of the Project is described in the following sections.

6.3.1 WTG Oil-Filled Equipment

As described in Section 6.1.1, it is anticipated that the final turbine model selected will have a gear box, hydraulic unit, yaw gear motor and pitch gear motor at each of the 76 WTG sites. These components are contained within the nacelle of the WTG.

A nacelle is an enclosed component that is connected to the turbine tower. An oil discharge from the gear box or hydraulic unit would take place inside the nacelle and would be contained by the oil spill deck and/or within the nacelle. Typically, the spilled material would be drained from the nacelle and be contained on the yaw deck. The oil spill deck and yaw deck are enclosed areas and are not subject to precipitation.

No oil storage is anticipated to occur within the tower of the WTG. However, if an oil discharge were to occur in the tower, such as a spill from an oil container being transferred up the tower for maintenance, the oil would be contained inside the tower.

The nose cone of each WTG will contain a pitch gear motor that contains multiple gear boxes that contain oil. Typically, a discharge within the nose cone could get to the lip of the nose cone and ultimately reach the ground. Therefore, the nose cone is not considered to provide secondary containment. However, the nose cone is covered by the alternative requirements for oil-filled operational equipment contained discussed in Section 16.0 below.

The components of the WTG are expected to be equipped with monitoring devices that continuously track the pressure/vacuum level and temperature of the equipment. The Facility Response Coordinator is automatically notified via email and phone if the monitoring devices detect any change in the equipment that could indicate a possible oil discharge.

6.3.2 Pad Mounted Transformers

Typically, there are no passive secondary containment measures at external pad mounted transformers. However, pad mounted transformers are covered by the alternative requirements for oil-filled operational equipment as discussed in Section 16.0

Each of the pad mounted transformers are expected to be equipped with a monitoring device that will continuously track the pressure/vacuum level and temperature of the oil container. The Facility Response Coordinator is automatically notified if the monitoring devices detect any change in the equipment that could indicate a possible oil discharge.

6.3.3 Substation Transformer

It is anticipated that each substation transformer will be surrounded by a containment vault filled with stone that will provide sufficient containment capacity. Discharge from a vault is typically controlled by an oil stop valve, which is discussed in Section 17.0.

The Facility Response Coordinator is automatically notified if the monitoring devices detect any change in the equipment that could indicate a possible oil discharge.

6.3.4 Storage Drums

Storage drums that are kept at the O&M building are anticipated to be stored on spill containment pallets. When the storage drums need to be moved and will not be located on secondary containment, even if only for a temporarily period, a drain cover will be placed on the floor drain as applicable.

Table 3. Summary of Secondary Containment

Storage Item	Maximum Potential Discharge (gallons/unit)	Description of Secondary Containment Measures
Oil-filled Equipment		
WTG Oil-Filled Equipment Gear Boxes Hydraulic Unit Yaw Gear Motor Pitch Gear Motor	TBD TBD TBD TBD	Gear boxes, hydraulic unit and yaw gear motor – Some secondary containment typically provided by spill deck and inside of the nacelle (depending on location of leak or spill) – assumed to not be sufficient to contain a maximum potential spill. Pitch gear motor - located within the nose cone which is not expected to provide secondary containment. See Section 16.0 for alternative requirements for Oil-Fill Electrical Equipment.
Pad Mounted Transformers	TBD	WTG would provide containment for internally located transformers. No passive secondary containment is expected to be provided for external locations. See Section 16.0 for alternative requirements for Oil-Fill Electrical Equipment.
Substation Transformer	TBD	Secondary containment is provided by a containment vault that is controlled by an oil stop valve.
Oil Storage Containers		
55-Gallon Drum	55	Located in the O&M Building. Stored on [TBD] gallon secondary containment units that are connected to provide [TBD] gallons of secondary containment. Floor drain covers are utilized when moving drums.

6.4 Counter Measures (§112.7(a)(3)(iv))

Discharge discovery, response and cleanup methods are described in the following sections.

6.4.1 Discharge Discovery

A discharge from a WTG, pad mounted transformer or substation transformer would be discovered upon receiving an automatic notification of a change in the pressure/vacuum level or temperature of the equipment.

A discharge from a 55-gallon drum would be discovered during monthly inspections of the secondary containment; in addition, discharges may also be discovered during use of the O&M building.

A discharge during oil transfer or use would be discovered immediately by the personnel working with the oil.

6.4.2 Discharge Response Procedures

Minor Discharges

Minor discharges (less than 5 gallons and under the control of the spiller) such as leaks, spills, or other oil discharges will be immediately reported to the Facility Response Coordinator, as identified in Section 6.7. Project personnel will then promptly contain the discharge using the spill response materials described below. Cleanup of the oil and any

contaminated material will be completed by Project personnel or a spill response contractor as determined by the Facility Response Coordinator. In addition, the Facility Response Coordinator will complete internal notification procedures as per Baron Winds LLC procedures and complete a spill report form. The form will be used to report the spill to the applicable federal and/or State agencies as detailed in Section 7.0. The oil and contaminated material will be immediately disposed of by the spill response contractor as required by State and federal regulations.

Major Discharges

For major discharges (greater than 5 gallons and/or not under the control of the spiller), it is anticipated that the response actions would begin with the typical initial control procedures listed below. Notification and response measures beyond this list will be per the Project's Emergency Action Plan (EAP). The EAP will be located at the Project site and will be reviewed by all Project personnel as part of standard operating procedures.

1. Make an immediate assessment of the incident, with particular attention to human safety in the vicinity of the incident.
2. If the incident does not pose an immediate threat to human safety, stop the source of the spill immediately or take steps to reduce the severity of the incident and then contact the Facility Response Coordinator (see Section 6.7 for contact information).
3. If conditions are hazardous (for example, fire or potential explosion), leave the area immediately and contact the Facility Response Coordinator and other nearby employees to inform them of the incident.
4. The Facility Response Coordinator will contact the spill response contractor and local emergency response.
5. Ensure that all nearby devices that could act as ignition sources are off, if safe to do so.
6. Confine the release to the smallest area possible, if safe to do so.
 - Use booms or sandbags, dig small trenches, or place absorbent pads to stop migration of the release.
 - Take immediate action to prevent the spill from reaching off-site or on-site surface waters.
 - Place booms or absorbent mats, 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.
7. The spill response contractor or local emergency response teams will take the appropriate actions to ensure the area is safe prior to containment, as necessary, and cleanup of the incident.
8. The Facility Response Coordinator will complete the spill response form and perform the external notifications as detailed in Section 7.0 (see Appendix C).
9. The spill response contractor will complete spill cleanup.
10. The oil and contaminated material will be disposed of by the spill response contractor as required by State and federal regulations.

6.4.3 Spill Response Equipment

Table 4 identifies typical spill response equipment expected to be maintained on-site. Sufficient materials will be maintained at the site to respond to a minor discharge and to initiate containment of a major discharge.

Table 4. Spill Response Equipment

Typical Equipment	Anticipated Location
Communications	
Mobile Phones	With Personnel
Personal Protective Equipment	
Gloves	O&M Building
Hard Hats	O&M Building
Safety Glasses	O&M Building
Spill Response Equipment/Active Secondary Containment	
Fire Extinguisher	O&M Building
Drum Oil-Only Overpak Spill Kit(s) - Various Absorbent Mats/Pillows - Oil Containment Booms/Socks - Disposable bags - Drum can be used to store spill/contaminated material	O&M Building
Drum Spill Kit(s) - Various Absorbent Mats/Pillows - Oil Containment Booms/Socks - Granular Absorbents - Drum can be used to store spill/contaminated material	O&M Building
Shovel(s)	O&M Building
Drain Cover(s)	O&M Building
First Aid	
First Aid Kits	Vehicle, O&M Building and Substation
Eyewash Bottles	O&M Building and Substation

6.5 Methods of Disposal (§112.7(a)(3)(v))

In the event of a discharge, all oil and contaminated material will be disposed of as required by State and federal law/regulations. This will be accomplished by the Facility Response Coordinator contacting the spill response contractor as identified in Section 6.7.

6.6 Contact List (§112.7(a)(3)(vi))

Facility Response Coordinator – Primary: [Site Manager] (TBD)

Facility Response Coordinator – Secondary: [Assistant Site Manager] TBD)

Spill Response Contractor: [Contractor] (TBD)

Local Emergency Response – 911

Steuben County Sheriff's Office
 7007 Rumsey St, Bath, NY 14810
 Non-emergency Phone: (607) 622-3901

New York State Police
7237 NY-415, Bath, NY 14810
Non-emergency Phone: (607) 776-2136

St James Mercy Hospital
411 Canisteo St, Hornell, NY 14843
Non-emergency Phone: (607) 324-8000

National Response Center
(800) 424-8802

New York State Department of Environmental Conservation (NYSDEC) Spill Hotline
(800) 457-7362

7.0 SPILL REPORTING INFORMATION (§112.7(a)(4)-(5))

As of the date that this Plan was prepared, the Project has not had any spills. The Project will record all oil spills that are over 1 gallon and/or are reportable. A spill log and spill reporting form is provided in Appendix C.

National Response Center Reporting Requirements

In the event of a discharge of oil to navigable waters (bodies of water that can be used to transportation of goods) or adjoining shorelines, the National Response Center (NRC) must be **immediately** notified by calling 1-800-424-8802.

The report must include the following information:

- The exact address or location and phone number for the Project;
- Date and time of discharge;
- Type of material discharged;
- Estimate of the total quantity discharged to navigable waters;
- Source of the discharge;
- Cause of the discharge;
- Description of the affected media;
- Any damages or injuries caused by the discharge;
- Actions being taken to stop, remove, and mitigate the effects of the discharge;
- Whether any evacuation may be needed; and
- Names of individuals and/or organizations who have also been contacted.

New York State Reporting Requirements

An oil spill must be reported to the New York State (NYS) Spill Hotline at 1-800-457-7358 **within 2 hours of discovery**, unless the spill meets all of the following criteria:

1. The quantity is known to be less than 5 gallons; and
2. The spill is contained and under control of the spiller; and
3. The spill has not and will not reach the State's water or any land; and
4. The spill is cleaned up within 2 hours of discovery.

Note that a spill is considered to not have impacted land if it occurs on a paved surface such as asphalt or concrete; however, a spill onto a dirt or gravel parking lot is considered to have impacted land and is reportable.

U.S. Environmental Protection Agency (EPA) Reporting Requirements

In the event of a discharge meeting the following criteria, submit the report found in Appendix C and additional documentation as necessary to the EPA Regional Administrator and the NYSDEC within 60 days of the following:

1. A single discharge of more than 1,000 gallons of oil into or upon navigable waters or adjoining shorelines; or
2. Two discharges, each more than 42 gallons of oil, to navigable waters or adjoining shorelines occurring within any twelve-month period.

The report must include the following information:

- Name of the Project;
- Name(s) of the owner/operator of the Project;
- Name of the person reporting the discharge(s);
- Location of the Project;
- Maximum storage or handling capacity of the Project and normal daily throughput;
- The corrective actions and/or countermeasures taken, including a description of the equipment, repairs and/or replacements;
- An adequate description of the Project, including maps, flow diagrams, and topographical maps, as necessary;
- The cause(s) of the reportable discharge, including a failure analysis of system or subsystem in which the failure occurred;
- Additional preventive measures taken or contemplated to minimize the possibility of recurrence; and
- Other information as the EPA Regional Administrator may reasonably require pertinent to the Plan or spill.

8.0 PREDICTION OF DISCHARGES (§112.7(b))

A prediction of a discharge rate of flow and total quantity of oil which could be discharged from the facility as a result of each type of major equipment or storage failure are described below. The direction of flow for the discharge is dependent on the location of the incident. These parameters will be better defined following the further development of the Project. At that time, general directions of flow will be identified on the Oil Storage and Drainage Maps in Appendix A.

8.1 Drum Storage

An accidental drop and rupture of a drum could result in up to 55 gallons being discharged instantaneously. A drum with a minor leak could result in a discharge rate of 1 gallon/hour with a maximum anticipated discharge of 55 gallons.

8.2 WTG and Pad Mounted Transformers

It is anticipated that the failure of or damage to gear boxes or hydraulic units in a WTG would cause oil to flow into the nacelle. Typically, the failure of a gear box or hydraulic unit will result in an instantaneous discharge of the full oil storage volume.

It is anticipated that the failure of, or damage to, gear boxes in the pitch gear motor in WTG would cause oil flow into the pitch gear motor. Typically, if the enclosure of the pitch gear motor were to fail the discharge would flow into the nose cone and could ultimately follow the natural flow paths of the site. The failure of a gear box would result in the discharge of the full oil storage capacity volume instantaneously.

Catastrophic failure of a WTG could result in the rupture of all components. A discharge in this scenario would follow the natural flow paths of the site.

It is expected that major failure of or damage to a pad mounted transformer could result in the instantaneous release of the full volume of oil stored. Typically, a minor failure or damage to a transformer could result in a slow leak with a possible discharge rate of 10 gallons/hour with a maximum estimated discharge of 20 gallons. Discharges from an internally located transformer would be generally contained within the WTG. Any discharge from an externally located pad mounted transformer would follow the natural flow path.

It is expected that a discharge at a transfer area for a transformer or WTG during normal maintenance could result in an instantaneous discharge of up to a full 5-gallon oil container. Any discharge from the transfer area would follow the natural flow path.

8.3 Substation Transformers

It is expected that a major failure of, or damage to, a substation transformer could result in the instantaneous release of the full volume of oil stored. Typically, a minor failure or damage to a transformer could result in a slow leak with a possible discharge rate of 100 gallons/hour with a maximum estimated discharge of 200 gallons. It is expected that any discharge from the substation transformer would be contained in the secondary containment vault.

A discharge at a transfer area for the substation transformer during normal maintenance could result in an instantaneous discharge of up to a full [TBD] gallon oil container. Any discharge from the transfer area would follow the natural flow path.

9.0 SECONDARY CONTAINMENT AND/OR DIVERSIONARY STRUCTURE (§112.7(c)-(d))

Anticipated passive secondary containment is discussed and described in Section 6.4. The spill response equipment described in Section 6.5.3 will be maintained at the site and used to provide active secondary containment during oil transfer procedures and to respond to discharges. Typically, active secondary containment is not considered feasible for the externally located pad mounted transformers and WTG due to the distance and travel time between the O&M Building and the pad mounted transformers. Therefore, the exemption for oil filled operation equipment is used as discussed in Section 16.0

10.0 INSPECTIONS, TESTS AND RECORDS (§112.7(e))

Project personnel will continuously monitor the WTG and transformers. Typically, most of this monitoring is conducted through various sensors that relay information to the O&M building. These systems will alert Project personnel of changes in oil pressure/vacuum levels or temperature increases. These changes will prompt Project personnel to go to the WTG or transformer and check the system for leaks among other potential issues.

In addition to the monitoring systems, visual inspections will occur on a regular basis. Typically, ground level visual inspections or Site Sweep Inspections are completed on a monthly basis. During the monthly visual inspection, the base of each WTG and pad mounted transformer will be inspected for security and signs of damage. If an oil leak had reached the ground it would be identified at this time. An inspection of the substation transformer will also be completed at that time. An Electrical Substation Inspection Checklist is completed at this time and includes a visual check for leaks.

It is expected that twice annually each WTG will be inspected to ensure it is operating properly. At this time, the Turbine Inspection Report will be completed. During these inspections, the oil-filled components of the WTG are checked for functionality and signs of leaks.

Visual inspection of the drum storage area at the O&M building will occur monthly as part of the O&M Building Audit Checklist. This inspection will include an assessment of the integrity of the secondary containment pallets as well as the containers themselves.

All inspections will be documented on the applicable inspection checklists and signed by the appropriate supervisor or inspector. Sample copies of these checklists are included in Appendix B. Oil leaks will be noted on the inspection checklist and promptly corrected. The inspection records will be maintained for a minimum of 3 years and stored at the Project site.

11.0 PERSONNEL, TRAINING, AND DISCHARGE PREVENTION PROCEDURES (§112.7(f))

All oil handling personnel will be trained on:

- General Project operations;
- The contents of the SPCC Plan;
- Prevention of oil discharges;
- Oil discharge response protocol; and
- Applicable pollution control laws, rules and regulations;

The Facility Response Coordinator, as identified in Section 6.7, will be accountable for discharge prevention and reports to facility management. The Facility Response Coordinator is also responsible for scheduling and conducting discharge prevention briefings for oil handling personnel at least once per year. Briefings must highlight and describe any discharges that have occurred, failures or malfunctions of any oil storing containers or operational equipment, and any recently developed discharge prevention or maintenance procedures.

After each training session, the names of personnel in attendance and subject matter will be recorded. A training log form is located in Appendix D. Training records will be maintained for a minimum of 3 years at the Project site.

12.0 SECURITY (§112.7(g))

Sufficient lighting and security will be provided throughout the Project to allow for spill detection and the prevention and discovery of vandalism. Typical security measures expected to be used include:

- The O&M building will be locked when Project staff are not present.
- Fencing will be provided around the substation and gates will be locked.
- The access roads to all turbine locations will be gated.
- Turbine towers and external valves will be locked.
- Access doors to pad mounted transformers will be locked.
- Lights will be equipped with motion sensors to the extent practical to meet security and environmental concerns.

13.0 LOADING AND UNLOADING RACK (§112.7(h))

There is no loading and unloading rack proposed for the Project.

14.0 FIELD CONSTRUCTED ABOVEGROUND (§112.7(i))

There are no field constructed aboveground containers proposed for the Project.

15.0 COMPLIANCE WITH STATE RULES, REGULATIONS, AND GUIDELINES (§112.7(j))

It is not anticipated that the oil storage at the Project site will be subject to New York State regulations relating to petroleum bulk storage (in particular, 6 NYCRR Part 613). The requirements to report an oil discharge to the NYSDEC under New York Navigation Law § 175 are outlined in Section 7.0.

16.0 OIL-FILLED OPERATIONAL EQUIPMENT (§112.7(k))

Pad mounted transformers and the pitch gear motors located in the WTG nose cone are typically oil-filled operational equipment without secondary containment. As described in Section 6.4, the oil-filled operational equipment contained in the nacelle (gear boxes, hydraulic unit and yaw gear motor) are expected to have some passive secondary containment as described in Section 6.4 above. However, it is assumed that this secondary containment is not sufficient to contain the maximum potential discharge. By comparison, substation transformers typically have sufficient secondary containment.

Under the SPCC regulations, owners of certain oil-filled equipment can comply with alternative requirements in lieu of the general secondary containment required in 40 CFR §112(c). In this case, the Project has not had any reportable spills. As a result, it meets the requirements of §112.7(k)(1) and can comply with the requirements of §112.7(k)(2) in lieu of providing secondary containment for the pad mounted transformers and components of the WTG. In accordance with this requirement, the Facility has:

1. Established and documented the Project's procedures for inspecting and monitoring the equipment to detect failure and/or a discharge as described in Section 10.0.
2. Prepared an Oil Spill Contingency Plan per 40 CFR Part 109. This plan is located in Section 19.0.
3. Made a written commitment of manpower, equipment, and materials to expeditiously control and remove any quantity of oil discharge that may be harmful (see Section 2.0).

17.0 DRAINAGE FROM THE SUBSTATION TRANSFORMER CONTAINMENT VAULTS (§112.8(b))

It is common for drainage from the substation transformer containment vault to be controlled by an oil stop valve. In this scenario, the valve is automated to drain whenever water is present, but will close to prevent drainage if oil is detected. This or its equivalent is expected to be employed by the Project.

18.0 BULK STORAGE CONTAINERS AND PIPING (§112.8(c)-(d))

As previously noted, it is expected that 55-gallon drums will be used to store oil in the O&M building. The oil will be stored in its original containers and under pressure and temperature conditions as recommended by the supplier. The drums will be provided with secondary containment as discussed in Section 6.4.4. The drum storage area is not expected to be subject to precipitation. Therefore, storage in excess of the largest container or periodic drainage of the secondary containment will not be required.

Testing and inspection of all oil storage is completed in accordance with industry standard, as described in Section 10.0.

There are no aboveground, completely or partially buried or bunkered tanks planned for the Project site.

There is no piping planned for the Project site.

19.0 OIL SPILL CONTINGENCY PLAN (§109.5)

An Oil Spill Contingency Plan will be prepared as part of this SPCC Plan because the oil-filled electrical equipment (i.e., the pad mounted transformer and WTG components) is subject to the alternative requirements discussed in Section 16.0 above.

19.1 Authorities, Responsibilities and Duties (§109.5(a))

All Project personnel will be responsible for notifying the Facility Response Coordinator, as identified in Section 6.7, of any oil spill at the site, as detailed in Section 6.5.2.

The Facility Response Coordinator will be responsible for the initial response to an oil spill at the Project. The Facility Response Coordinator will respond to the notification of a spill as detailed in Section 6.5.2.

19.2 Notification Procedures (§109.5(b))

Notification procedures in the case of a spill are outlined in Section 6.5.2. Spill reporting requirements are identified in Section 7.0.

19.2.1 Critical Water Use Areas

Water resources within the Project boundaries will be identified on the Site and Water Resources Maps in Appendix A. Seely Creek is the only Class A waterbody within the Project; crosses through the Project area in three different locations for a total of 833 linear feet. There are no class AA waterbodies within the Project. Section 6.2 discusses the distance between oil storage and water resources.

19.2.2 Contact Information for Responsible Persons/Agencies

A contact list for the Project is included in Section 6.7.

19.2.3 Communication System

The Project site is expected to have suitable mobile phone coverage. The O&M building will be equipped with landline telephones that could be used for notifications in case of a mobile service outage.

19.2.4 Major Disaster Response Procedure

In the event of a major disaster at the Project, the Facility Response Coordinator will contact the spill response contractor as described in Section 6.5.2. The need for additional assistance is not anticipated as the contractor will be selected based on having sufficient capabilities to respond to the maximum anticipated oil discharge (see Section 19.3.3).

19.3 Capabilities (§109.5(c))

The Project will have the resources available to respond to a discharge as necessary as discussed in the following sections.

19.3.1 Locally and Regionally Available Assistance

A contractor within close proximity to the Project will be selected to allow them to respond quickly to a spill. The selected contractor will also have a variety of heavy equipment including excavators, bulldozers, vacuum trucks, roll-off containers, etc. available to respond to an oil spill. They will also have sufficient booms, absorbent materials, etc. to respond to a spill at the Project. They will have experience responding to various types of oil, chemical and hazardous material spills, including discharges from transformers at other WTG projects. In addition, as discussed in Section 6.5.3 above, the Project will be equipped with basic spill response resources at various locations to address smaller spills.

19.3.2 Response to Maximum Oil Discharge

The maximum anticipated oil discharge from a pad mounted transformer is the entire oil container. Pad mounted transformers commonly fail due to electrical back feeding. This can result in oil floating on water within the transformer fiberglass enclosures and minimal oil is discharged on the ground. This failure typically causes flammable gases that require the use of a grounded vacuum truck or other extraction technique that would not cause a fire hazard. The maximum discharge of the components of a WTG are discussed in Section 8.2. If the full volume of oil from a transformer or WTG were to reach the surrounding ground, the anticipated materials and equipment necessary to respond include:

- 100 feet of 6-inch diameter, or larger, booms to temporarily contain the spill.
- A backhoe or bulldozer to create a berm to contain the spill and to remove contaminated materials and absorbent materials.
- 50 cubic-yards of granular absorbent material to absorb the spill for cleanup or a vacuum truck, depending on the spill location.
- Truck for transport of oil and contaminated materials to a disposal facility.

These materials will be supplied by the spill response contractor.

19.3.3 Advanced Arrangements

The Project will have an agreement with the spill response contractor listed in Section 6.7. This agreement will allow the Facility Response Coordinator to contact the spill response contractor for services on an as needed basis.

19.4 Additional Response Actions (§109.5(d))

The procedures discussed in this section shall be used after the discharge has been discovered and the notification procedures in Section 6.5.2 are completed.

19.4.1 Discharge Response Team

The Response Coordinator for the Project is the Facility Response Coordinator, as identified in Section 6.7.

The Discharge Response Team will include oil handling Project personnel who will provide the initial response and containment as they are able and the spill response contractor who will complete the remaining discharge response procedures. The procedures outlined in Section 6.5.2 will be followed.

19.4.2 Discharge Response Operations Center

The discharge response operations center is anticipated to be the O&M building for the Project. Communications systems are available at this location as discussed in Section 19.2.3.

19.4.3 Response Efforts

Varying degrees of responses are outlined in Sections 6.5.2 and 19.3.2.

19.4.4 Priority of Water Uses

Based on the locations of and distances anticipated between the pad mounted transformers, it is not anticipated that more than one water resource would be affected at any time. Therefore, it is not expected that a prioritization of water uses would be necessary.

19.5 Recovery of Damages and Enforcement (§109.5(e))

In the event that a discharge from the Project causes damage to a natural resource, the Owner would meet with local, State and federal regulators, as applicable, to determine the necessary remediation steps. An appropriately qualified consultant would be contracted to work with the spill response team to restore the affected natural resources.

APPENDIX A

Project Mapping

(Detailed mapping to be provided following project construction)

APPENDIX B

Inspection Checklists



Preliminary Baron Wind O&M Building Inspection

Date: _____

Inspected By: _____

	Yes	No	N/A	Comments or Follow-up
Required documents available at site office				
Site Safety Plan				
Emergency Action Plan				
Lockout/Tagout Policy				
Confined Space Entry Policy				
Hot Work Policy				
Spill Prevention, Control, and Countermeasure (SPCC) Plan				
Visitor Release and Waiver of Liability				
SARA Title III / MSDS forms				
OSHA 300 log posted				
Required documents on file				
LOTO forms				
Attendance record of safety meetings/topics discussed				
MSDS forms				
Job Safety Analysis forms (JSAs)				
PPE inspection records				
Near miss reports				
Vehicle safety inspection / maintenance records				
Visitor log				
Housekeeping				
No trip, slip, or fall hazards				
Parking lots in good condition				
Tools and equipment stored in their proper location				
Exits and aisles not blocked				
Eye wash stations, fire extinguishers, pull boxes, and electrical panels not blocked				
Security / fire alarm system operational (if applicable)				
Materials stored in a manner to prevent them from falling				
Oil, chemical and waste management				
All oil, chemicals and waste stored in properly labeled containers				
Oil, chemical and waste containers are in good condition				
Flammable liquids stored in approved flammable storage cabinets				
Secondary containment provided for bulk oils, chemicals and wastes				
Secondary containment is free of spilled material and debris				
Compressed gas cylinders labeled, secured upright, flammables and oxygen separated				
MSDS forms on file for all chemicals used or stored on site				
Emergency				
Emergency exits marked				
Evacuation routes posted and assembly points identified				
Emergency phone numbers posted				
Fire extinguishers in place, tamper seals intact, fully charged, inspection tags current				
Spill kits available				
Eye wash stations in place and with current monthly inspections				
First aid kits in place and with current monthly inspections				
AED in place with current monthly inspection				
All EverPower personnel current on tower rescue, CPR and AED				
Drill performed with local emergency responders within the last 12 months				
Rescue helicopter landing sites identified				



Preliminary Baron Wind O&M Building Inspection

Date: _____

Inspected By: _____

	Yes	No	N/A	Comments or Follow-up
Tools				
Defective tools properly tagged and taken out of service				
All required equipment guards in place				
Ladders Inspected and Secure: (8' Step, 10' Step & 20' Extension)				
Electrical safety				
Grounded circuits or GFI protection provided for all circuits for portable electric tools				
Electrical panel boxes labeled with voltage and circuits identified				
Wiring not damaged (improper splices, frayed cords, or exposed wiring)				
Electrical outlets/circuits not overloaded				
Extension cords checked for continuity and properly marked (Quarterly)				
Sanitation				
Adequate sanitation facilities available to personnel at all times				
Running water and soap or anti-bacterial hand sanitizer available				
Vehicles				
Current inspection permit displayed (where required)				
Current registration permit displayed				
Fire extinguisher/first aid kit in vehicle with current inspections				
Materials stored properly in truck beds (no loose materials that could blow or fall out)				
Tires in good condition, including tread wear within limits, properly inflated				
Communications				
All field personnel equipped with cell phones and/or radios				
Contractors/Visitors				
Visitor/contractor checklist performed and on file				
All personnel provided with site map and emergency contact telephone numbers				

Signature: _____

Preliminary Baron Wind LLC, Turbine Inspection Report

Date of Inspection _____

Start Time _____

End Time _____

ID Number of WTG _____

Job Preparation	
Verify Weather	Complete JSA
Inspect PPE	Call PMS -
REguard Control	
Logged In	Logged Out
Job Conclusion	
Lock Tower Door	Call PMS -

SAP-Job Number (from Kay)	Notification Number (from PMS)	mPulse W.O. Number	Operation Hours (REguard)	MWH (REguard)

ITEM	Description of Inspection	APPROVED	REJECTED	Comments	Photo
1	Verify there are no faults or warnings listed on the REguard Screen.				
2	Inspect the basement for debris / water.				
3	Verify proper operation of the Lift, and inspect for any defects.				
4	Verify each platform for cleanliness and free of debris.				
5	Inspect the Buss bar system and verify there are no apparent burned covers.				
6	Inspect the Twist loop against chaffing, and condition of the cables.				
7	Verify the spill deck is clean and free from gear oil and hydraulic oil.				
8	Verify the condition of the Yaw brake pads.				
9	Verify the Hydraulic unit is free from oil leaks.				
10	Verify the area under the gearbox and generator is free from oil and debris.				
11	Verify all safety covers are properly installed.				
12	Verify that there is no loose debris in the hub or spinner area.				
13	Verify that all covers in the hub are installed and secured.				
14	Verify the top box is closed and secured.				
15	Verify all accelerometers are secure and cables connected.				
16	Verify the weather mast equipment is secured and the roof is free of debris.				
17	Verify the roof hatches are closed and secured.				
18					
19					
20					
21					

INSPECTED BY _____ DATE _____

INSPECTED BY _____ DATE _____

Preliminary Electrical Substation Inspection Checklist

Inspection performed by:

Component	Status		Comments
	Yes	No	
Yard			
Is the substation fencing in good repair (no holes in fence/excavations under fence)?			
Are all gate locks secured and in good working order?			
Are all grounding mats covered (i.e. no wire protruding)?			
Yard lighting function properly (no lights out)?			
Are ladders inspected and stored properly (40' Extension & 4' Step)?			
Is there any unused equipment or material stored in the yard?			
Is there any garbage / refuse etc. on the ground?			
Are there clear warning / hazard signs posted in appropriate places (fences, buildings)?			

Yard (Bus, Switches and Transformers)

Are all switches and cabinets (in good repair, secure and locked/tagged where appropriate)?			
Are all equipment labels legible and in good repair (e.g. switches, OCBs)?			
Does an overhead visual check of the substation bus reveal any problems (broken insulators, cracked lightning arrestors, loose hardware, etc.)?			
Are there any oil leaks visible from the transformers or metering tanks?			
Does a visual inspection of the transformers reveal any problems?			
Do the radiator cooling fans spin freely?			
Are all gauges reading within range?			
Main Transformer: (Record Highest and Reset) Oil Temp.: Winding Temp.:			

Building

Is the metal clad building in good repair, no visible damage to building (leaks, holes, tears)?			
Is the metal clad building entrance securely locked?			
Is the building exterior lighting function properly (no lights out)?			
Are there any issues within the building (lights out, hvac, communications)?			
Is the building in compliance with housekeeping standards?			

Safety Equipment

Are the grounding sticks and high voltage gloves in good repair and inspection?			
Are the Arc Flash suits in good repair and clean?			
Are the proper LOTO tags/locks and LOTO log available?			
Are the ground cables & high voltage detector in good repair and function?			
Is all safety equipment secured and stored properly?			
Are the First-aid kit, Fire Extinguisher's & Eye Wash station ready for use and inspected?			

Critical Equipment

Are any alarms showing on the transformer (i.e. gas)?			
Have all history/fault logs been recorded?			
Are there any issues with the battery back-up system?			

Overall Assessment

Does the overall condition of the substation facilities and yard meet standards?			
--	--	--	--

Signed:

Date:

APPENDIX C

Spill Log and Reporting Forms

Preliminary SPILL REPORT FORM



SPILL REPORTED BY:	DATE:
PHONE NUMBER:	TIME:
PROJECT MANAGERS:	
LOCATION: BARON WIND POWER PROJECT	
SPILL DESCRIPTION:	
Discharge/Discovery Date & Time:	
Material Spilled:	
Amount Spilled:	
Media Affected (Soil, Water, Other with specifics):	
Source of the Spill:	
CAUSE OF THE SPILL:	
DAMAGES OR INJURIES (SPECIFY):	
EVACUATION NEEDED:	
RESPONSE ACTIONS TAKEN:	
OTHER ORGANIZATIONS AND INDIVIDUALS CONTACTED:	
<input type="checkbox"/> National Response Center Time:	
<input type="checkbox"/> Cleanup Contractor (Specify)& Time:	
<input type="checkbox"/> Facility Personnel (Specify) & Time:	
<input type="checkbox"/> NYS DEC Spill Hotline Time:	
<input type="checkbox"/> Other (Specify) & Time:	

APPENDIX D

Training Log

APPENDIX E

Material Safety Data Sheets (MSDS)
(To be provided following project construction)