

SECTION 1
DEVELOPMENT DESCRIPTION

Section 1. Development Description

A. Narrative.

The Silver Maple Wind Project will be a twenty (20) megawatt wind energy project, located in Clifton Maine, directly adjacent to the existing Pisgah Mountain Wind Project. This project will be developed, owned, and operated by SWEB Development USA, LLC. The project will consist of five V136 turbines, which will stand on steel towers either 105 meters (344.5 ft) in height, or 117 meters (383.8 ft) in height. The fiberglass blades of the V136 are 68 m (223 ft) in length, giving each turbine a total tip height of 173 m (567.6 ft) to 185 m (607 ft) respectively. The project parcel is owned by the applicant: SWEB Development USA, LLC, and totals 163 acres. The project currently holds all necessary rights to the land, along with all required mitigation waivers and easements for construction and operations.

This project will directly abut the Pisgah Mountain Wind Project, which is a 9 MW project which began operations in December of 2016. The Silver Maple project will share common ownership with the Pisgah Mountain project, although both projects will have unique interconnection facilities (via Emera Maine) to the 115 KV lines on site. The Pisgah Mountain Project consists of 5 Vestas V 90, 1.8 MW turbines on 95-meter towers. The existing project also hosts a unique point of interconnection to Emera Maine and ISO New England via a substation on the southwest corner of the parcel.

Crane pads will be developed for each of the five wind turbine sites. These pads will be approximately 40'x120' and will consist of compacted gravel. A circle of 325 feet in diameter will be cleared of brush for each wind turbine site for the purpose of assembling the wind turbine rotors. These circles will be allowed to grow back after construction is complete.

Centered in each cleared circle will be located the wind turbine foundations, consisting of approximately 50' diameter reinforced concrete. The towers will be bolted to these foundations. Some blasting of ledge may be necessary to construct these foundations.

The sub-station will be constructed on the northeastern corner of the parcel near the existing powerline corridor. The sub-station will consist of approximately a quarter acre of compacted gravel and poured concrete. A locked fence will surround the sub-station.

A powerline will run downhill from the northern-most wind turbine and connect to the sub-station, where the electricity will be boosted from 34.5kV to 115kV for transmission into the grid. An electrical meter at the sub-station will record the amount of electricity produced.

Construction will commence in the summer of 2020, with the extension of the existing road system to include the roads and access necessary for the Silver Maple turbines, collector system, and substation. Foundation construction will also commence for the turbines themselves and the

interconnection substation and switchyard. Foundations will be poured during the mid-late summer. Crane pads and turbine laydown areas will also be built during the summer of 2020.

Construction teams will not progress construction during the winter months of 2020-2021 and will commence construction again in the mid-late spring of 2021 (depending on conditions on site). At this time major equipment will be delivered and installed throughout the summer. At this point the substation and interconnection equipment will be installed and commissioned first during late Q2 2021, followed by the erection and commissioning of turbines during July through September of 2021. The collector system (both overhead and underground) will installed concurrently during substation construction and turbine erection.

Test power and final inspections through Emera Maine and ISO New England will take place throughout the fall of 2021, culminating in the commencement of commercial operations in mid-December of 2021.

The SCADA system for the Silver Maple Wind Project will communicate directly with the SWEB 24/7 monitoring team in both Pfaffenslag Austria and their Maine Field office located at 129 7th Street in Bangor, Maine. Operations communications will be transmitted directly to the operations team, who will have control over the function of the project and can respond to any operations issues.



Material Handling and Storage, Spill Reporting Procedures For: Silver Maple Wind

Purpose:

The purpose of this plan is to establish appropriate material handling, storage and spill response procedures for work areas and storage yards utilized by Cianbro during The construction of the Silver Maple Wind Project. The procedures will be put in place to minimize the risk of exposure of various non hazardous and potentially hazardous materials to people and the environment.

Responsible Personnel:

Each site typically houses a construction trailer. Contact information to report any storage or material handling issue or spill will be posted. (See tables A and B) In case of emergency or question the Environmental Manager will be contacted. The site construction superintendent/foreman will be responsible for assuring the day to day procedures for proper storage and handling of materials are followed. Weekly inspections will be conducted on all equipment and material storage areas and fuel/oil tanks.

Contaminated and Hazardous Materials:

There is the potential that the storage yards/areas may be a temporary storage location for contaminated excess materials from the work such as spill contaminated soils, scrap metals, treated wood or scrap metal or equipment. Hazardous materials may also be encountered and must be handled according to the required regulations for that material. A disposal plan for all contaminated materials expected to be encountered should be done prior to the start of the project; the plan should be adjusted as new items are encountered.

Containment Procedures:

Product, Excess material and contaminated materials require proper storage, transport and disposal. The attached chart (Table 1) can be completed for each storage area or work site. The chart will note the material, location of storage, approximate amount of material, containment device or procedures and clean up or disposal requirements if there were to be a release.

Recycling and Disposal:

Approved and properly licensed disposal and recycling facilities must be utilized for all Cianbro projects. Typically, approval must be given by the Owner/Operator of the site prior to shipment of any material off project if that material is a result of the required project activity and not a spill. Recycling of materials will occur whenever possible. Records of disposal location and schedule will be retained and submitted to the Program Manager according to submittal process. *All disposal or recycling facilities must be*

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licensed by the state or federal environmental agency to handle the materials received and documentation of this license must be obtained. This documentation is usually required by the owner as the owner is the generator of the waste in most cases. Should there be a question as to who the generator is, contact Cianbro Environmental for clarification.

Release form: Disposal or Recycling of uncontaminated or special materials by Cianbro requires the completion of a waiver/release form by the receiving party. The waiver form can be obtained from Cianbro Environmental or Contracts personnel. The waiver/release form provides Cianbro with a tracking mechanism for the material and requires the receiver to use the material in only approved or permitted manner.

Lead Paint, Asbestos, and Mercury Switches: Removal, storage and transportation of these items, if encountered must be in accordance with local, state and Federal Solid Waste and Hazardous Waste Management and Transportation requirements. Lead Paint chips or lead containing materials and asbestos containing material is considered a hazardous waste at certain levels and must be managed as such. Mercury switches are also a special or hazardous waste dependent on the state environmental regulations.

Inspections:

Documented Inspections of material storage areas will be conducted weekly and after any significant storm event. These will be conducted by a designated person on site.

Documentation and Inspection may be conducted in conjunction with the Erosion and Sediment Control Inspections. Print multiple copies of Table 1 and place your Initials & Date in the “Completed” column once the inspection is complete. If only fuel tanks are present on site, the Bulk Fuel Tank inspection form can be used.

Equipment Inspections:

Equipment will be inspected daily to assure all parts are in working order and there are no leaks or worn valves, hoses, hydraulics that may cause a leak during use or issues that would create a hazard to the operator. Log books/forms are available for each piece of equipment. The operator is expected to complete the daily check.

Team Member Awareness:

In addition, all team members are expected to be familiar with proper storage and handling procedures of materials they are working with and any issues should be addressed as soon as possible as well as brought to the attention of the Environmental manager. Periodic observations of the equipment travel ways for staining can limit a small spill associated with a piece of equipment from becoming a larger – harder to clean up – spill.

Table to be expanded or deleted dependent on project needs.

Table 1

Material	Location	Quantity	Containment	Inspection	Check	Disposal
Treated Wood	NO storage near water		Appropriate roll off container or as approved by Owner	Weekly or after rain event for soil staining, leaking dumpster		Construction Demo Debris – appropriately licensed landfill or recycler
Fuel storage or pump areas	NOT within 25 ft of wetland or water resource, 200 Ft of well		Secondary containment or double walled tank spill kit required Fueling pad recommended	Weekly and after fueling activity for drips, spills or stains		Use in equipment or vehicles
Gravel	Do not place within 25 feet of a resource		Sediment controls around the pile			Clean – reuse/use appropriately
Loam or soils	Do not place within 25 ft of a resource.		Sediment controls around the pile. Seed & Hay Mulch topsoil/loam if not to be used for 7 days or more			Clean – reuse/use appropriately
Contaminated Soils	On 6mil plastic sheeting or full containment Cover !!	Remove to proper disposal immediately	Clean soil berm silt fence or hay bales around pile			Based on analysis or knowledge of contaminant
Scrap metals	Segregate		Roll off containers Covered, water tight			Licensed recycler

Construction debris	Segregate		Roll off containers, covered, water tight			CDD landfill
Clean Wood	Segregate from construction or treated wood debris		Neatly stack on ground			Reuse, burn with burn permit, or send to recycling/disposal facility (chips, biomass)
Lead	Segregate		Chips and dust must be contained, locked and labeled area	Contact Environmental		Licensed abatement company, disposal as hazardous materials
Asbestos	Segregate		contained and labeled area, locked for debris	Contact Environmental		Licensed abatement company, disposal as hazardous materials

Fueling and Parking of Equipment:

Fueling: Equipment will not be fueled within 50 feet of the water unless proper secondary containment measures are utilized during the fueling process. Otherwise stationary equipment, such as cranes or equipment which is not practical to move will also be fueled utilizing the secondary containment methods.

1. A 5 gallon pail will be used to contain the fuel nozzle when being moved to and from the tank/truck to the equipment.
2. An absorbent pad will be placed on the equipment at the fill area in a manner which would capture any excess drips or possible overflow from the process.
3. If practicable without creating a safety hazard a spill absorbent or boom will also be placed beneath the fuel location of the equipment.

Small Equipment Parking: Secondary containment devices will be constructed for all oil filled equipment which will be placed within 50 feet or over the water. (IE: compressors, generators, welders.) The containment can be made from a minimum 6 mil poly sheeting and 2X4's. This is a permit requirement for most projects with an Army Corp of Engineers permit or EPA (state level) Construction General Permit.



Hazardous Materials Handling and Storage

Hazardous Materials will be stored according to the *Cianbro Hazardous Materials Handling plan (2010 revision)*. A list with MSDS for each item will be submitted to the Program Manager. Spills will be handled according to the procedures below.

Spill Reporting Procedures Hazardous Materials:

The following procedure applies to both the satellite storage yards and to work areas. In the event of any incident involving the release of hazardous material or hazardous waste in any quantity, take the following steps:

1. Notify the Project Superintendent or site safety supervisor or alternate. **See Appendix B.**
2. Determine if evacuation is necessary. If evacuation is necessary, sound the alarm as designated for the location.
3. Contain the incident if it is safe for you to do so.
4. Notify the Corporate Hazardous Material Coordinator (CHMC) or Corporate Safety/Environmental within 2 hours. **See Table B.**
5. **Notify the PROJECT Environmental representative as noted on the attached report form for the project.**
6. If the spill gets into a water body or exceeds the Reportable Quantity (RQ) for the chemical and has left the facility boundary, notify the National Response Center at 1-800-424-8802. NOTE: Reportable quantities vary state to state.
7. If the release could potentially get offsite, notify the Police, Fire, and Medical as necessary.
8. Control the incident. Obtain whatever help and information necessary to do so safely. Follow the guidelines in the Cianbro Spill Procedures (**Form SD832**)
9. Recover the material into appropriate containers. Store and/or dispose of as directed by the FHMC.
10. Fill out the corporate spill report form and forward to Corporate Safety
11. Written report submittal
Within 15 days if a hazardous waste release or

Within 30 days if a hazardous material release (ie if the project discharged a hazardous material not considered a waste)

When reporting an incident provide the following information:

1. Name and telephone of the person making the report.
2. Phone number and address of the facility.
3. Time and type of incident.
4. Name and quantity of materials involved to the best of your knowledge.
5. Extent of injuries, of any.
6. The possible hazards to human health or the environment outside the facility.

Table A

Post the attached table and procedures at all oil storage and fueling locations. Review/edit contact numbers for each project.

REFERENCE EMERGENCY TELEPHONE NUMBERS:	
Penobscot County Sheriffs Office	1-207-947-4585
Maine Department of Environmental Protection	1-800-452-4664
National Response Center	1-800-424-8802
Clean Harbors	1-207-262-9504

Table B

Location:	
Site Superintendent	Phone: tbd
Lauren Lohn Environmental Manager	Phone: 207-416-9306
Safety Manager	Phone: tbd
Client site superintendent	Phone: tbd

Oil Spill Retention & Recovery Plan

In the event of a petroleum or oil spill the Cianbro team will react in accordance with the following action plan.

1. Remain calm. If there is a danger of fire, call local fire dept. #911
2. Stop the source of the spill, if possible, by valving, plugging, caulking, or other means available. Secure area with barrier tape.
3. Take any brief action, which will prevent or delay oil from reaching navigable waters or spreading across the surface of the ground. This may require building a dike with soil, speedy dri, rags or pads; or creating a soil berm to divert the flow of oil.
4. If oil has or has the potential to reach a water source, deploy oil boom. This should be done for any spill involving a product entering the water or having the potential to enter the water.
5. Notify Client, Project Management ect per contract
6. Contact Corporate Safety/Environmental Manager within 2 hours of the spill.
7. Contact Department of Environmental Protection or appropriate state or federal reporting agency based on work location. For spills involving product entering the water, call the National Response Center (NRC/Coast Guard) 1-800-424-8802 or 1-202-267-2675.
8. Complete Cianbro Corporation oil spill report form. Complete/sign and date/mail or forward via email a copy of oil spill report form to the Corporate Safety within 2 days of clean up.
9. Clean up area:
 - A. Place all oil stained soil and speedy dri into a 55-gallon drum lined with a 6-mil poly bag.

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- B. Place all rags, pads, booms and protective clothing into a 6-mil poly bag and then into a 55 gallon drum. Keep bags to a 30-pound limit.
- C. Label drums appropriately. Contact Clean Harbors or other owner approved company for proper disposal of waste materials. Clean Harbors: 1- 207-799-8111