

## **Section 18 Solid Waste**

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Attachment 18-1 Archie’s, Inc. Ability to Serve Letter

## **18.0 SOLID WASTE**

The Canton Mountain Wind Project (Project) will consist of new roads, foundation pads, and transmission line rights-of-way in forested areas. All timber will be commercially harvested and sold or transported to the landowner for their use. Unmarketable timber and smaller brush will be ground or chipped on-site. Stumps will remain in place wherever possible; stumps that are removed will be shredded for erosion control mulch.

The construction of the Project is expected to create approximately 200 cubic yards of construction and demolition debris (CDD) waste. CDD materials will be collected in 10 to 30 cubic yard containers or similar and transported off-site by Archie's, Inc. of Mexico, Maine, to the Crossroads Landfill in Norridgewock, Maine, as stated in their Ability to Serve Letter (Attachment 18-1). No CDD materials will be disposed of on-site. See Table 18-1 for a list of materials to be generated by the construction and operation of the Project.

Commercial waste generated during construction and ongoing operation of the Project will be collected on-site and transported by Archie's Inc., or other licensed hauler, to the Crossroads Landfill. Commercial waste generated during ongoing operation of the facility will be limited to office trash and be less than 12 cubic yards per year.

During project operation, petroleum, synthetic gear oil, or hydraulic oil will be present and used for operation and maintenance of the wind turbines. The oil in the turbines will be replaced or recycled every three to five years. The main gearbox of each turbine holds approximately 114 to 193 gallons (430 to 730 liters), depending on the gearbox model and manufacturer. The yaw and pitch gearboxes hold a combined 6.8 to 11.0 gallons (25.8 to 41.5 liters), with an additional 6 gallons (20 liters) stored in the hydraulic system.

Oil changes will be done in one of two ways. One method is using a retrofitted vehicle containing oil that drives to the Project at the time of the oil change, siphons the old oil out of the turbines and into the vehicle and siphons the new oil from the vehicle into the turbines. The vehicle then drives away with the waste oil and transports it to an appropriate disposal facility. This work would be contracted out by Canton Mountain Wind, LLC (CMW) and the contractor would be responsible for disposal of the oil. An alternative method for oil changes is to bring in new oil in drums, change the oil, and put the waste oil into drums. This work would also be contracted out, but the contract would likely not include disposal. In that case, CMW would find a local business who would take the drums of waste oil. As indicated in Attachment 18-1, Archie's, Inc. would be willing to pick up the oil for its own use. The drums would not be stored on-site for an extended length of time. The Project will produce no hazardous waste streams as part of the power generation and electrical transmission processes.

**Table 18-1. Estimated Debris Generated to be Disposed Off-Site at a Licensed Facility**

	<b>Access Roads, Turbine Pads, Transmission Line Construction</b>	<b>O&amp;M Building Construction</b>	<b>Annual Facility Operation</b>
Office trash	Yes	Yes	Yes
Cardboard packing	Yes	Yes	Yes
Crating	Yes	Yes	Yes
Plastic packing	Yes	Yes	Yes
Palettes	Yes	Yes	Yes
Metal strapping	Yes	Yes	No
Rebar and ties	Yes	Yes	No
Carpentry cutoffs	Yes	Yes	No
Excess cabling	Yes	Yes	No
Personnel trash	Yes	Yes	Yes
Building insulation	No	Yes	No
Sheetrock	No	Yes	No
Stumps and brush	No	No	No
Damaged culverts and pipes	Yes	Yes	No
<b>Total Estimated Volume</b>	<b>160 cubic yards</b>	<b>40 cubic yards</b>	<b>12 cubic yards</b>

**Attachment 18-1**  
**Archie's, Inc. Ability to Serve Letter**

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# ARCHIE'S, INC.

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# J & J DISPOSAL

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09/30/2011

Michael Kelly  
Patriot Renewables, LLC and Canton Mountain Wind, LLC  
549 South St.  
Quincy, MA 02169

RECEIVED

NOV 18 2011

RE: Ability to Serve for Canton Mountain Wind Project in Canton, Maine

Dear Mike,

This letter is to confirm that Archie's Inc. located in Mexico, Maine has the capabilities to pickup, truck and dispose of annual volumes of (CDD) construction demolition debris as well as CDD material generated by proposed construction at Canton Mountain in Canton, Maine. We can also provide disposal service for turbine oils removed as part of the maintenance program for the turbines and MSW debris once the project is done and in need of regular waster service. The end sites of these materials will be:

Construction Debris:

Crossroads Landfill  
Rt # 2  
Norridgewock, ME

Turbine Oils:

Archie's Inc  
Rt # 2  
Mexico, Me ( We will use in waste oil furnace at our facility )

MSW:

Crossroads Landfill  
Rt # 2  
Norridgewock, ME

This letter is not a quote for services. It is a statement of capabilities. The sole purpose of this letter is to communicate the willingness and capabilities that Archie's Inc. has towards providing this service as requested. If you have any question, or concerns, please do not hesitate to give me a call.

Sincerely,

A handwritten signature in black ink, appearing to read "Alan Archibald".

Alan Archibald