
Spill Prevention, Control, and Countermeasures Plan

Lempster Wind Energy Project
Lempster, NH

Prepared for
Lempster Wind, LLC.

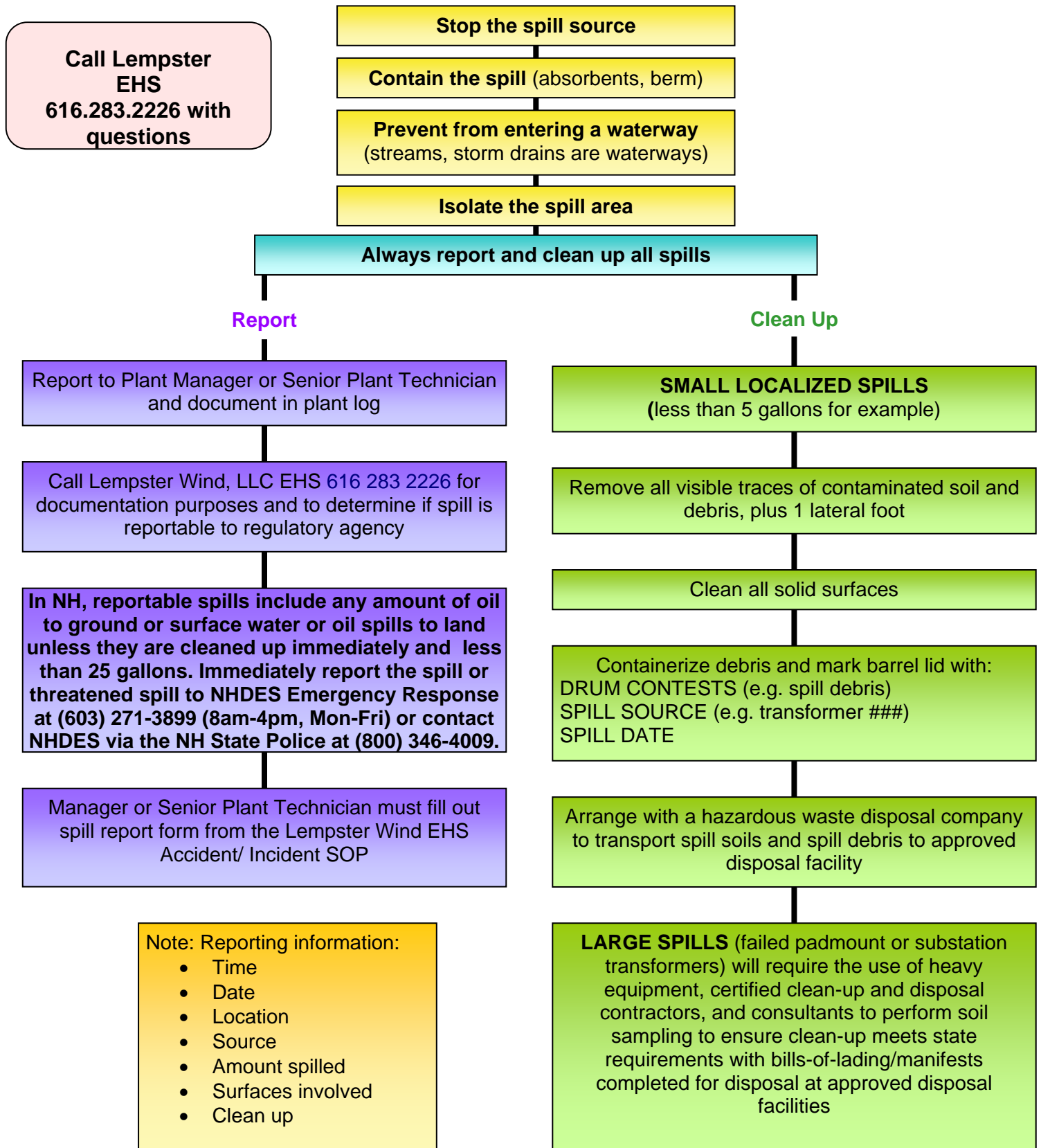
November 2008

Prepared by
CH2MHILL



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Paper**

Oil Spill Response Flowchart



Facility Information Page

Facility Name	Lempster Wind, LLC Lempster Wind Project
Facility Location:	Sullivan County
Facility Mailing Address:	106 Bean Mountain Road (PO Box 231) Lempster, NH 03605
Facility Contact Phone Numbers:	Brian Goodwin: (616) 283-2226 Operations and Maintenance Manager
SPCC Program Coordinator	Brian Goodwin
Corporate Office	1125 NW Couch, Suite 600 Portland, OR 97209
Owner/Operator Name:	Lempster Wind LLC.
Owner/Operator Address:	106 Bean Mountain Road (PO Box 231) Lempster, NH 03605
Type of Facility:	Wind Power Facility
Latitude/Longitude:	43° 13' 37.5" N 72° 9' 6.3" W
River Drainage Basin:	Sugar River
Nearest Surface Water Body:	See Site Map
Distance:	See Site Map

SPCC Plan Certification Page

Management Approval

This Spill Prevention, Control, and Countermeasure Plan for Iberdrola USA's Lempster Wind Project is fully supported by the management of Iberdrola USA. Lempster Wind, LLC will implement this Plan and amend it as needed as a result of expansions, modifications, and improvements at the Lempster Wind, LLC facility. In addition, the management Lempster Wind, LLC commits the manpower, equipment, and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful and to respond to a discharge within an appropriate response time.

Name: ^{ED CHERION}
Eric Latham

Project Manager, Lempster Wind, LLC

Signature: Edward Latham

Date: 7 Nov 2008

Engineer Certification

Through this certification, I hereby attest that (1) I am familiar with the requirements of 40 CFR 112; (2) my agent has visited and examined the facility; (3) the SPCC Plan has been prepared in accordance with good engineering practices, including consideration of applicable industry standards, and with the requirements of the SPCC rule; (4) procedures for required inspections and testing have been established; and (5) the Plan is adequate for the facility.

Certifying Engineer: William Shively

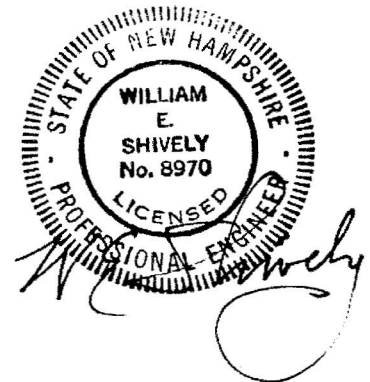
State: NH

Registration Number: 8970

CH2M HILL

Signature: W. Shively

Certification Date: 11-7-08



Plan Review and Revision

Changes to Facility or Operations

This SPCC Plan is to be amended whenever there is a change in facility design, construction, operation, or maintenance procedure that materially affects the potential for an oil spill. Examples of the types of changes that may require amendment of the Plan include the following:

- Commissioning or decommissioning tanks
- Replacement, reconstruction, or installation of oil containers
- Construction or demolition that might alter secondary containment structures
- Revision of standard operating or maintenance procedures

Amendments to the plan because of these types of changes are called technical amendments, and must be certified by a Professional Engineer (PE).

Other changes are called nontechnical amendments and do not need to be certified by a PE. Nontechnical amendments include the following:

- Change in name or contact information (e.g., telephone numbers) for individuals responsible for this SPCC Plan

Both technical and nontechnical amendments must be documented in the attached SPCC Review Plan Log. All amendments to this SPCC Plan will be signed and certified by the owner/operator.

This SPCC Plan is to be amended within 6 months of a change, and implemented within 6 months following preparation of the amendment.

Routine Reviews

In any case, this SPCC Plan will be reviewed and evaluated once every 5 years by the Spill Prevention Coordinator. The review will be documented and noted on the attached SPCC Review Plan Log. If required, the SPCC Plan will be amended within 6 months of the review as described above, and any changes will be implemented within 6 months of the amendment.

SPCC Plan Review Log

Date	Certification (per 40 CFR 112.5[b])	Reviewer	Signature	Revisions
	I have completed review and evaluation of the SPCC Plan for Lempster Wind, LLC facility on _____ and will/will not amend the Plan as a result.			
	I have completed review and evaluation of the SPCC Plan for Lempster Wind, LLC facility on _____ and will/will not amend the Plan as a result.			
	I have completed review and evaluation of the SPCC Plan for Lempster Wind, LLC facility on _____ and will/will not amend the Plan as a result.			
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	I have completed review and evaluation of the SPCC Plan for Lempster Wind, LLC facility on _____ and will/will not amend the Plan as a result.			

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Introduction

1.1 Objectives and Scope of Plan

This plan outlines the procedures, methods, and equipment used at the Lempster Wind, LLC (facility) to comply with the U.S. Environmental Protection Agency's (EPA's) oil spill prevention, control, and countermeasures standards, and to comply with inspection, reporting, training, and record keeping requirements. Pursuant to 40 *Code of Federal Regulations* (CFR) 112.1, a facility must prepare and maintain a Spill Prevention Control and Countermeasures (SPCC) Plan if the following conditions occur:

1. The facility has aboveground oil storage capacity of more than 1,320 gallon
2. Oil discharges could potentially reach navigable waters as defined in 40 CFR 112.2

These applicability requirements are met by the facility, and an SPCC Plan must be prepared and maintained.

The hierarchical objectives of the SPCC Plan are as follows:

- PREVENT spill from occurring.
- PREPARE for a potential spill
- RESPOND quickly and appropriately if a spill does occur.

1.2 Plan Content and Format

This Plan does not follow the exact format specified in 40 CFR 112. Table 1-1 presents a cross-reference of 40 CFR provisions and Lempster Wind, LLC Plan sections.

This Plan is designed to be "user friendly," easily implemented, and easily maintained. This Plan relies on "Container/Equipment Data Sheets" that provide SPCC Plan compliance requirements and activities for each oil facility (tank, container, equipment or operation) at the facility. This approach allows Lempster Wind, LLC personnel to efficiently make Plan updates and to address program requirements for their particular area(s) of responsibility.

Section 2.0 of this Plan provides a description of the regulated oil containers at the facility and the facility's general drainage characteristics. As required by 40 CFR 112.7(a)(1), Section 3.0 provides a discussion of Lempster Wind, LLC's conformance with the applicable SPCC regulations. Detailed technical and procedural information is referred to in the appendices. Appendix A contains site maps and facility diagrams. Appendix B contains a sample inspection checklist. Appendix C contains the New Hampshire Department of Environmental Services (NHDES) Spill Response & Complaint Investigation Section, Incident Report Form. Appendix D contains a sample facility spill log. Finally, Appendix E contains container and equipment data sheets.

This Plan has been developed in accordance with the revised SPCC rules issued by EPA on July 17, 2002. The Plan was also developed taking into consideration the *SPCC Guidance for Regional Inspectors* dated November 28, 2005, and the SPCC rule amendments issued by EPA in the *Federal Register* on December 26, 2006.

TABLE 1-1
Cross-Reference of 40 CFR Provisions and Lempster Facility SPCC Plan

40 CFR Provision	Provision's Topic	Plan Section	Plan Page
112.3(d)	Professional Engineer certification	SPCC Plan Certification Page	vii
112.3(e)	Location of SPCC Plan	Section 3.4 Recordkeeping	3-8
112.5	Plan amendment	Plan Review and Revision	ix
112.7	Cross reference to rule	Table 1-1, Cross-Reference with SPCC Rule	1-2
112.7(a)(1)	Conformance with rule	Section 3 Plan Requirements and Activities	3-1
112.7(a)(2)	Equivalent environmental protection	Section 3.2 Inspections	3-5
112.7(a)(3)	Facility diagram, facility information, spill response	Facility Information Page	v
		Section 2 Facility Description	2-1
		Appendix A: Site Maps and Facility Diagrams	Appendix A
		Section 3.3 Spill Response	3-5
112.7(a)(4)	Spill reporting	Section 3.3.2 External Notifications	3-6
		Appendix C – Lempster Wind, LLC Emergency Response and Evacuation Procedures	Appendix C
112.7(a)(5)	Spill response	Section 3.3 Spill Response	3-5
112.7(b), (c), and (d)	Evaluation of spill potential and secondary containment	Section 3.1 Fault Analysis and Containment Measures	3-1
112.7 (d)(2)	Management commitment	Management Approval	vii
112.7(e)	Inspections, tests, & records	Section 3.2 Inspections	3-5
		Appendix B – Inspection Checklist	Appendix B
		Section 3.4 Recordkeeping	3-8
112.7(f)	Personnel, training, and discharge prevention procedures	Section 3.5 Training	3-8
112.7(g)	Security	Section 3.6 Security	3-9
112.7(h)	Tank car and tank truck loading unloading	No tank car/tank truck loading/unloading of oil occurs at this facility	
112.7(i)	Brittle fracture evaluation	No field-constructed aboveground containers are located at this facility	
112.7(j)	Applicable State and local requirements	Section 3 Plan Requirements and Activities	3-1
112.8(b)	Facility drainage	Section 3.1 Fault Analysis and Containment Measures	3-1
112.8(c)	Bulk storage containers	Section 3.1 Fault Analysis and Containment	3-1

Measures

* Only selected excerpts of relevant rule text are provided. For a complete list of SPCC requirements, refer to the full text of 40 CFR 112.

SECTION 2

Facility Description

This section describes the facility, including the project area, wind turbine generators, Lempster Wind, LLC operations and maintenance (O&M) facility and substation, and the oil containers and equipment.

2.1 Project Area

2.1.1 General

The Lempster Wind Project is a planned 24 MW wind power project that will cover an approximate 60 acre area near the town of Lempster, New Hampshire, located on privately owned land in southwestern New Hampshire, approximately 20 miles north of Keene and less than 5 miles south of Mount Sunapee. The Lempster Wind Project consists of twelve turbines and will have the capacity to provide the annual electricity needs of approximately 10,500 New Hampshire homes. In general, the oil containers or oil-filled equipment covered by this SPCC Plan are as follows:

- Gear boxes located inside the wind turbine structures
- Electrical transformers containing dielectric fluid
- 55-gallons drum storage of oil products in the O&M building

The site map provided in Appendix A identifies the location and contents of each oil container. The container areas are described in more detail in the following sections. There are no underground storage tanks (USTs) at the facility.

At the time of initial Plan development and writing, the facility is under construction and is expected to be operational within the near future. The O&M building is complete, and switch yard is complete, however the turbines are currently being assembled, and virgin oil storage for nacelle hydraulic and gear box oil have not arrived at the site..

2.1.2 Topography

The Lempster Wind, LLC facility is located along the ridgeline of Lempster Mountain, which runs from the northeast to the southwest, parallel to New Hampshire Route 10 in southwestern New Hampshire in Sullivan County. The highest point in Lempster is the summit of Bean Mountain, at 2,326 feet (709 m) above sea level. The site lies mostly within the Connecticut River watershed, with the southeastern corner lying in the Ashuelot River watershed. The surface is, in general, uneven and mountainous. The project site is located in moderately to significantly sloping in areas and is dominated by forested upland.

2.1.3 Drainage and Water Bodies

The Lempster Wind site lies mostly within the Connecticut River watershed, with the southeastern corner lying in the Ashuelot River watershed. Flow at the site quickly matriculates into gravel and subsequently to the water table. Any flow that did occur near

the northern portion of the site would primarily flow to the Cold River located approximately 5 miles to the east of the site. Flow from the southern portion of the site would drain to the Sugar River, which is a tributary of the Connecticut River.

2.1.4 Wind Turbine Generators

Two types of oil-filled operational equipment are located at each of the 12 wind turbine generators (WTGs):

- Gear Boxes: Each WTG Meropa 320 gearbox contains 95 gallons of lubricating oil and is located at the top of the 260-foot turbine tower enclosure known as a nacelle.
- Step-up Transformer: These transformers are situated in the tower “nacelle” and are dry transformers with no oil storage capacity or oil in them at all.
- Hydraulic Units: There is also one hydraulic unit situated in each tower “nacelle” which provides secondary containment. The hydraulic unit holds 40 to 50 gallons of hydraulic fluid. These units are exempt from SPCC regulation as is below the 55 gallon threshold.
- The locations of the WTG sites are shown on Figure 1 provided in Appendix A.

2.2 Lempster Wind, LLC O&M Facility and Switchyard

The O&M facility located on at the Lempster facility will house up to 6 55-gallon drums of oil products. Spill pallets are used as passive secondary containment for these drums. The site maintains a switch yard which includes three mounted grounding transformers; each transformer contains approximately 116 gallons of oil. There is no substation onsite. One spare grounding transformer is maintained at the site. The spare transformer contains no oil.

Plan drawings of the Lempster Wind, LLC O&M facility are provided in Appendix A.

2.3 Summary of Oil Containers and Equipment

Table 2-1 summarizes the oil containers and equipment to be used.

TABLE 2-1
Summary of Oil Containers and Equipment

Container or Equipment ID	Number of Units	Unit Capacity (Gallons)	Total Capacity (Gallons)	Oil Product Stored
Oil-Filled Equipment				
Grounding Transformers	3	116	348	Mineral Oil
WTG Gear Boxes	12	95	1,140	Lubricating oils
Hydraulic Units	12	50	600	Hydraulic fluid
Oil Storage Containers				
55-gallon drum	6	55	330	Misc. oil products

TABLE 2-1
Summary of Oil Containers and Equipment

Container or Equipment ID	Number of Units	Unit Capacity (Gallons)	Total Capacity (Gallons)	Oil Product Stored
storage				
Total Facility Storage Capacity (gallons)			2,418	

SECTION 3

Plan Requirements and Activities

This section describes the following general SPCC Plan requirements:

- Fault Analysis and Containment Measures
- Inspections
- Spill Response
- Recordkeeping
- Training
- Security

This SPCC Plan conforms to SPCC rules with the exception of certain integrity testing requirements on 55-gallon drums for which environmental equivalence is demonstrated in Section 3.2.1. No additional state or local requirements pertaining to oil spill prevention were identified. Specific spill prevention control and countermeasures applicable to individual oil filled equipment or containers are provided in the “Container/Equipment Data Sheets” in Appendix E.

3.1 Fault Analysis and Containment Measures

3.1.1 Overview

The development of this SPCC Plan included analyzing each oil-filled equipment or container for the following:

- A determination of the most likely spill scenario based on good engineering practice
- An evaluation of the appropriateness of passive containment measures provided in the original facility design and construction
- An evaluation of the appropriateness of active containment measures for other equipment not originally provided with passive containment measures

Table 3-1 provides a summary of the secondary containment strategy for oil-filled equipment and containers at the Lempster Wind Project facility. Additional details are provided in the Container/Equipment data sheets in Appendix E. Section 3.1.2 provides a detailed evaluation of active containment measures for the oil filled operating equipment.

TABLE 3-1
Summary of Secondary Containment Strategy

Container/Equipment ID	Maximum Potential Spill (gallons)	Description of Containment Measures
Oil-filled Equipment		
Grounding Transformers	Up to 116	Active containment measures to control and remove spills from the large flat gravel area surrounding the grounding transformer locations.
WTG Gear Boxes	Up to 95	Spills inside the turbine tower will be contained by the sealed tower base. Active containment measures are appropriate and will be employed upon discovery for small spills that may occur from the nacelle and drip along the outside of the tower base. Gear boxes are equipped with low level alarms to detect leaks
WTG Hydraulic Units	Up to 50	Spills inside the turbine tower will be contained by the sealed tower base. Active containment measures are appropriate and will be employed upon discovery for small spills that may occur from the nacelle and drip along the outside of the tower base.
Oil Storage Containers		
55 gallon drum	Up to 55	Spill Pallets

3.1.2 Evaluation of Active Containment Measures for Gear Boxes

As described in Section 2, the facility includes gear boxes, step-up transformers and hydraulic units at each of the 12 WTG sites. The step-up transformers are dry units with no oil storage capacity and thus not regulated by SPCC. The gear boxes contain 95 gallons of oil each. The hydraulic units are below 55 gallons and thus exempt from SPCC regulation though secondary containment is provided via the “nacelle” itself in the same way as outlined below for the gear boxes.

The set up for this site is unique in that the step-up transformers and gear boxes are located in the wind turbine nacelle itself. As such, the nacelle itself will serve as secondary containment so secondary containment around the concrete foundations or otherwise is not necessary. In the event of a spill the nacelle would contain most or all of the oil. Any oil spillage from any of the oil filled equipment or reservoirs that did escape from the nacelle would drain within the tower. The wind tower is set on concrete and tightly sealed around the pedestal and tower base with epoxy seal on the flange at the bottom of the tower.

In a worse case scenario there would potentially be an instantaneous release of 95 gallons from the gear box. In this case the spill will be contained within the sealed concrete tower floor base. Spills from nacelle will drip along the tower to the base. A minimal amount of oil, i.e. less than a gallon could potentially make it to the ground in a worst case scenario

situation. Passive containment is provided by the tower nacelle and tower in combination with active measures to recover small amounts of oil that make it to the ground.

3.1.3 Evaluation of Active Containment Measures for Grounding Transformers

The grounding transformers are pole mounted and away from any bodies of water. Active containment measures are used to control and remove any potential spills from the large, flat gravel area surrounding the grounding transformer location. There is a high temperature fault detection system in place which will notify wind farm technicians to investigate.

3.2 Inspections

The facility includes bulk oil storage containers (55-gallon drums) and oil-filled operating equipment (electrical transformers and gear boxes). Industry standards for inspections of 55-gallon drums include the Steel Tank Institutes SP001 Standard for Inspection of Aboveground Storage Tanks, Third Edition, issued July 2005. The standard calls for owner-performed inspections conducted at least monthly. Containers will be stored so that all sides are visible (i.e., the container has no contact with the ground). If the container starts to degrade (e.g., begins to rust, or oxidize if a poly drum), the contents of the container will be transferred to a new drum compatible with the material. These controls are expected to provide environmental protection equivalent to integrity testing.

Formal monthly inspections for the transformers and gear boxes (exterior portion of nacelle and tower) have also been deemed appropriate for the facility at this time. Weekly “drive by” inspections will also be performed. A monthly inspection checklist is provided in Appendix B.

3.3 Spill Response

3.3.1 Procedures

For quick reference an oil spill response flow chart has been developed and is provided in the front cover of this Plan. The procedures include internal and external notification procedures for initiating a response. For small spills (less than 5 gallons), facility personnel will promptly clean up any visible discharge. For spills greater than 5 gallons, the Lempster Wind Project Emergency Response and Evacuation Procedures must be followed. This procedure will be maintained onsite as part of standard operating procedures. The following actions are recommended to mitigate the release of oil products:

1. **IF AT ALL POSSIBLE, STOP THE SOURCE OF THE SPILL IMMEDIATELY.** Close the valve, shut down pumping, 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. The release should be confined to the smallest area possible.
 - Use booms or sandbags, dig small trenches, or place absorbent pads to stop the spread.
 - Take immediate action to prevent the spill from reaching off-site 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 emergency equipment and materials, and the locations where they are stored, is provided below.

3. Properly dispose of contaminated soils and/or equipment.
4. Perform the external notifications as outlined in Section 3.3.2.

3.3.2 External Notifications

For any amount of oil that causes a sheen on “waters of the state” or that violates and applicable water quality standard, the following must be notified.

National Response Center (NRC): (800) 424-8802

New Hampshire Emergency Response Number (603) 271-3899

For additional information on spill reporting in New Hampshire, see DES’s Spill Response & Complaint Investigation Section, Incident Report Form provided in Appendix C. Spill events requiring SPCC Plan revision, submittal, and reporting are described below.

Lempster Wind, LLC will submit the SPCC Plan with all amendments to the EPA Regional Administrator within 60 days if one of the following events occurs:

- (1) A discharge of more than 1,000 gallons of oil into or upon navigable waters or adjoining shorelines in a single spill event.
- (2) A discharge of oil in harmful quantities (in violation of water quality standards or which have caused a sheen, film or discoloration on the surface of the waters) into or upon navigable waters or adjoining shorelines in two spill events reportable under Section 311(b) (5) of the Federal Water Pollution Control Act (FWPCA), known as the Clean Water Act, occurring within any 12-month period.

If one of the above events occurred, the following information is required to be submitted to EPA and the State:

- Name of the facility
- Name(s) of the owner/operator of the facility
- Location of the facility

- Date and year of initial facility operation
- Maximum storage or handling capacity of the facility and normally daily throughput
- Description of the facility, including maps, flow diagrams, and topographical maps
- A complete copy of the SPCC Plan with all amendments
- The cause(s) of such spill, including a failure analysis of system or subsystem in which the failure occurred
- Material and quantity of such spill
- The corrective actions and/or countermeasures taken, including an adequate description of the equipment, repairs and/or replacements
- Additional preventive measures taken or contemplated to minimize the possibility of recurrence
- Such other information as the EPA Regional Administrator may reasonably require pertinent to the SPCC Plan or spill

3.3.3 Spill Response Equipment

Table 3-2 identifies the recommended spill response equipment to be maintained onsite. Spill response will probably include digging up dirt and placing it in berms around the spill as well as placing absorbent mats into the spilled oil. Manufacturer information indicates the oil absorbency of the listed spill response absorbents to be approximately 114 gallons and should be adequate for initial response to spill incidents.

Table 3-2
Spill Response Equipment

Equipment	Quantity	Location
Communications		
Telephone-Cellular	2	On person – Brian Goodwin/Technician
Two-Way Radio	6	O&M Building
Personal Protective Equipment		
Protective Coveralls	4	O&M Building
Hard Hats	6	O&M Building
Safety Glasses	20	O&M Building
Spill Response Equipment		
95- Gallon Oil-Only Overpak Spill Kit	1	O&M Building – See Appendix A
Oil Only Pig© Mats (Item 7202)	1	O&M Building – See Appendix A
Pig© Universal Mat (Item 7230)	1	O&M Building – See Appendix A

Table 3-2
Spill Response Equipment

Equipment	Quantity	Location
Shovels	4	O&M Building
Empty Drums	4	O&M Building

NOTE: All emergency equipment will be decontaminated prior to being placed back into routine service.

3.3.4 Spill History

Once active, the facility will record all oil spills over 1 gallon. A template facility spill log is provided in Appendix D.

3.4 Recordkeeping

All records generated with this plan (spill notifications, inspection worksheets, integrity testing results, repair records, and training records) are maintained for a minimum of 3 years. These records are filed in the SPCC records or in the facility operating records. A copy of this SPCC Plan is kept onsite and at the Lempster Wind, LLC office in Lempster, New Hampshire.

3.5 Training

Training is required for oil-handling employees and employees that perform inspections under this plan. . These personnel at the facility will be trained in the following areas:

- Laws and regulations regarding spills, releases, and pollution control
- Contents of the SPCC Plan
- Operation and maintenance of equipment to prevent discharges
- General facility operations
- Known discharges or failures and malfunctioning components
- Recently developed precautionary measures

Spill prevention and response training will be conducted at least annually. This training will be documented. In addition, informal briefings will be held periodically through the year to update employees on changes in the regulations, laws, or in-house procedures (e.g., during tailgate safety briefings).

Training records will be maintained for 3 years.

3.6 Security

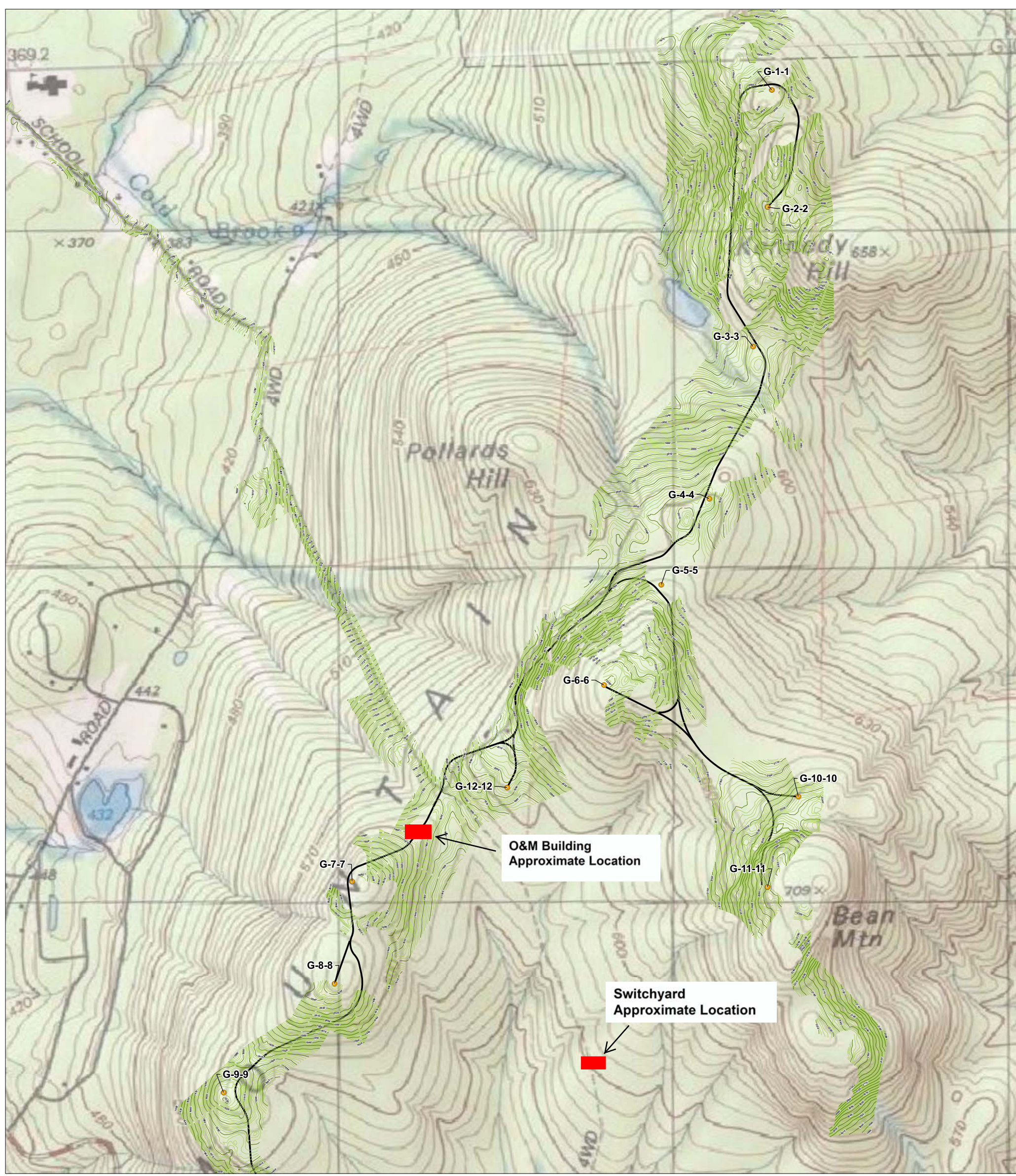
To prevent a spill or release from being caused by accidental or unknown entry or vandalism, several security measures have been employed, as follow:

- The O&M facility and substation will be locked once completed.

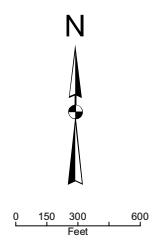
- WTG towers are locked.
- Sufficient lighting and security are provided throughout the O&M facility and substation to allow for spill detection and the prevention and discovery of vandalism.

APPENDIX A

Site Maps and Facility Diagrams

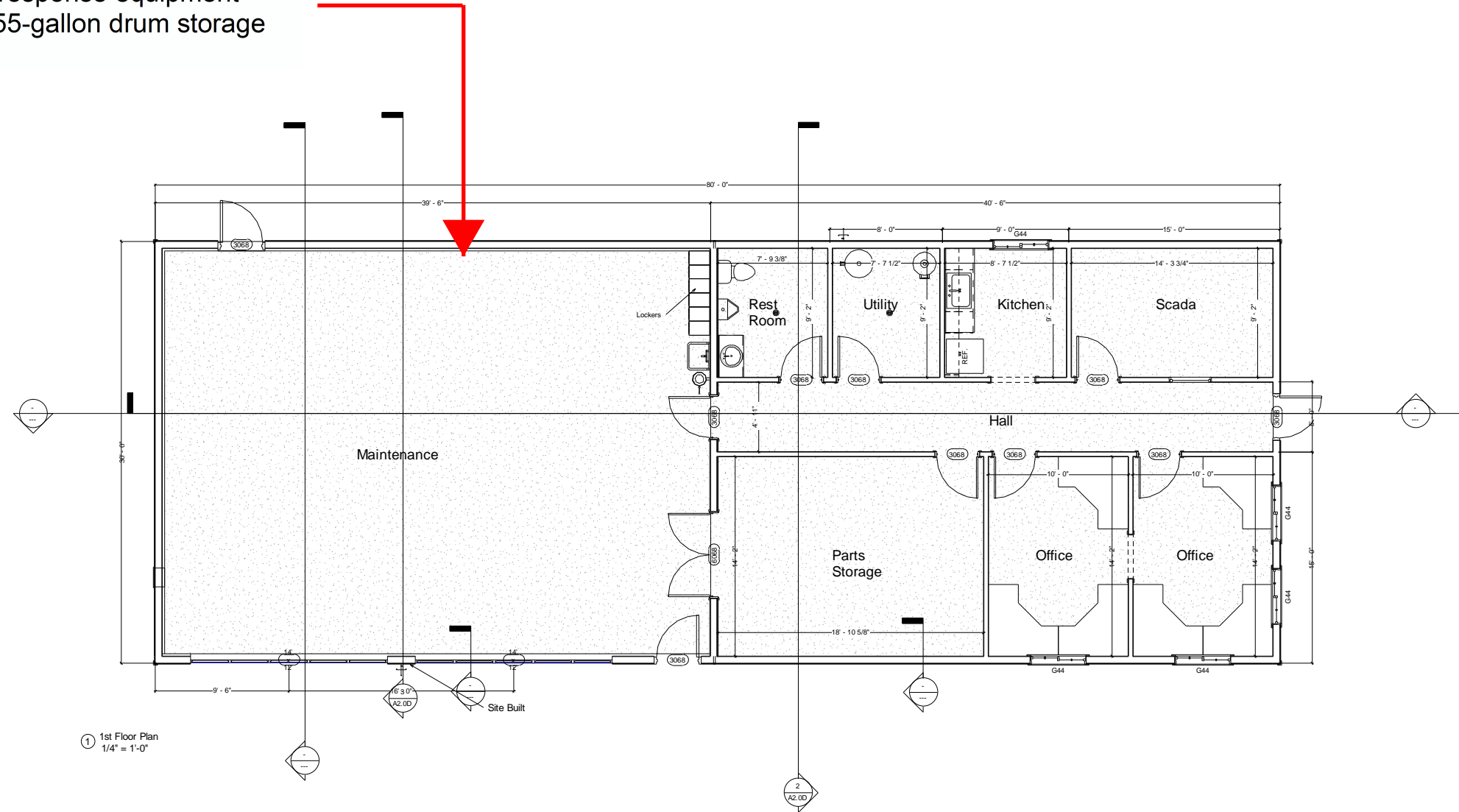


- LEGEND**
- Alternate Turbine Site
 - Proposed Turbine Site
 - Access Roads
 - 10-FOOT Contour
 - 2-FOOT Contour



LEMPSTER WIND PROJECT
 Proposed Turbine/Mets Sites
 New Hampshire
 SPCC Plan 2008

Spill response equipment
and 55-gallon drum storage



1 1st Floor Plan
1/4" = 1'-0"

351 Sumpas Street
PO Box 247
NEWPORT, NH 03773
603-883-3864
603-883-3864 FAX
1-800-LAVALLEYS



Prefabricated Custom
Homes & Garages
NO USE OR REPRODUCTION OF THIS
DRAWING WITHOUT THE WRITTEN CONSENT OF LAVALEY
BUILDING SUPPLY, INC.

**FIRST FLOOR
PLAN**
Notes: Do Not
Dimensions Shown

Drawn By: BLR
Revised:

Holmes - Windmill
Goshen / Lempster

00000
Sheet Number:
A3.1D

APPENDIX B

Inspection Checklist

Lempster Wind Project – SPCC Plan Monthly Inspection Form

General Inspection Information

Inspection Date: _____ Retain Until Date: _____ (3 years from inspection date)

Prior Inspection Date: _____ Inspectors Name: _____

Inspection Guidance and Instructions

- ❖ This inspection form applies to the following equipment:
 - o Switchyard Grounding Transformers (4 total)
 - o All WTG Gear Boxes (visual inspection of Nacelle exterior only – 12 total)
 - o 55-gallon Drum Storage at O&M Building

- ❖ Each piece of equipment shall be inspected monthly taking into consideration the following as appropriate:
 - o Equipment surfaces free from leakage?
 - o Seams are not damaged?
 - o Free from rust, corrosion, or pitting?
 - o Equipment foundation condition satisfactory?
 - o Containment system condition satisfactory?

- ❖ Maintain records in the field office for three years to meet SPCC recordkeeping requirements.
- ❖ This visual inspection does not require a certified inspector and can be performed by an owner's inspector who is familiar with the site and can identify and correct developing problems.
 For non-conforming equipment complete the table below. Use additional sheets as necessary. If all equipment is in satisfactory condition or corrective actions have been implemented, sign and date the form as indicated below.

Equipment Identification	Describe Unsatisfactory Condition	Describe Corrective Action	Date Corrective Action Completed

No Unsatisfactory Conditions Identified or Corrective Actions Completed:

Signature _____ Date: ___/___/___

APPENDIX C
Spill Reporting Form

**NHDES WASTE MANAGEMENT DIVISION
SPILL RESPONSE & COMPLAINT INVESTIGATION SECTION
INCIDENT REPORT FORM**

Date Incident Reported to DES: _____; **Time:** _____; **Rec'd By:** _____

Location of Incident

Site Name: _____

Street Address/Location: _____

Town: _____

Incident Type

- Petroleum Spill to Ground
- Petroleum Spill to Surfacewater
- Hazardous Substance Spill to Ground
- Hazardous Substance Spill to Surfacewater
- Motor Vehicle Accident
- Roadside Dumping
- Air Release
- Release Inside of Building
- Other (Specify: _____)

Party Reporting Incident

Name: _____ Phone No.: _____

Date of Incident: _____ Time: _____

Was Fire Department Notified: Yes No

Was Cleanup Contractor Hired: Yes, name: _____ No

Other Agencies/Officials Responding To Incident: _____

NHDES Responder

Name: _____

Actions Taken:

No Action Necessary

Referred to Other Agency/Division:

Agency/Division Name: _____; Person: _____; Date: _____;

Time: _____

Responded (describe what actions were taken:

APPENDIX D
Facility Spill Log

Summarize any spill over 1 gallon on this log.

SPILL LOG

Date	Material	Spill Amount (Gallons)	Cause	Reportable Y/N *

*See Plan Review and Revision section and Section 3.3.3 for reporting requirement.

APPENDIX E

Container/Equipment Data Sheets

CONTAINER/EQUIPMENT ID: Oil Container Storage in O&M Building

Location:	O & M Building
Contents:	Various petroleum & waste oil products
Capacity:	55 Gallons
Type:	Steel Drums
Secondary Containment:	Spill Pallets
Description of Drainage from Secondary Containment:	N/A – Located indoors, no drains in storage area
Fault Analysis	Failure of the primary containment will flow to the spill pallets.
Engineering Controls:	N/A
Corrosion Protection:	N/A – Container inside building with concrete floor
Inspections:	Monthly – See Appendix B
Security:	Located inside a locked building.
Other Applicable Spill Prevention Measures:	None

CONTAINER/EQUIPMENT ID: Lempster Wind Project Switchyard Grounding Transformers

Location:	Switchyard
Contents:	II Mineral Oil
Capacity:	116 Gallons
Type:	Oil Filled Operational Equipment
Secondary Containment:	Active containment measures to control and remove spills from the large flat gravel area surrounding the grounding transformer locations.
Description of Drainage from Secondary Containment:	Suspended from Pole away from any bodies of water.
Fault Analysis	Spill would be contained within the vicinity of the large flat gravel area surrounding the grounding transformer locations. Transformer high temperature fault detection system will notify wind farm technicians to investigate.
Engineering Controls:	N/A – Oil machinery, not storage
Corrosion Protection:	N/A
Integrity Testing:	N/A – Oil machinery, not storage
Inspections:	Monthly – see Appendix B
Security:	Locked
Other Applicable Spill Prevention Measures:	None

CONTAINER/EQUIPMENT ID: All Wind Turbine Generator (WTG) Sites – Gear Boxes

Location:	Wind Turbine Towers
Contents:	Lubricating Fluid
Capacity:	12 gear boxes @ 95 gallons each
Type:	Oil-Filled Operational Equipment
Secondary Containment:	Housed within WTG tower or active containment measures
Description of Drainage from Secondary Containment:	N/A, located indoors
Fault Analysis	Instantaneous release of 100 gallons. Spill will be contained within the sealed concrete tower floor base. Spills from nacelle will drip along tower to base. Turbine low level and low pressure fault detection system will notify wind farm technicians to investigate.
Engineering Controls:	N/A – Oil machinery, not storage
Corrosion Protection:	N/A
Integrity Testing:	N/A – Oil machinery, not storage
Inspections:	Monthly – see Appendix B
Security:	WTG towers are locked.
Other Applicable Spill Prevention Measures:	Place Oil Only Pig© Mats between tower and tower tie down bolts to collect material dripping along tower base.