

**FIRE PREVENTION AND CONTROL PLAN
FOR THE
MARBLE RIVER WIND FARM
CLINTON COUNTY, NY**

Prepared by

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Throughout the construction phases of the Marble River Wind Farm (MRWF) and continuing during operations for the life of the facility the management will implement as part of their operating and maintenance plan a fire prevention and control plan to ensure the safety of both company employees as well as local residents, visitors and their property. Nonetheless, fires due to machine failure in modern turbines are extremely rare. Cases of fire damage to land neighboring wind farms are practically non-existent. According to a leading insurer of wind farms with 15 years of experience and over 12,000 insured turbines, 90% of these very infrequent occurrences are due to older turbine models. Other potential locations for fires will be the facility's Operations and Maintenance Building and the substation where the wind farm interconnects with the utility grid. All of these facilities will be covered in detail by the fire prevention and control plan.

All components of the MRWF will be installed on properties that have been secured by the project under either long term leases or easements. The lease and easement documents provide for ready access to the facilities by both plant operating personnel and professional fire fighters.

Modern wind turbines are equipped with numerous fire and safety features that were not available only a few years ago. Turbines are equipped with safety systems that are designed for the purpose of detecting and alerting operators to potential fire conditions. The turbines planned for this facility include:

- 24 hour monitoring throughout their operating life
- Automatic shut-down controls should bearing temperatures exceed certain limits (typically 100 deg. C)
- Blades with integral grounding that conducts any lightning strikes directly to earth
- Conical steel support towers that have little if any risk of catching fire

In addition to the inherent safety of modern wind turbines and their associated equipment the MRWF will implement an active fire and safety program that will be a part of the facility's overall operating policies and procedures followed by all operating personnel. Key features of this plan will include:

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- Initial and refresher training of all operating personnel and procedures review in conjunction with local fire and safety officials
- Regular clearing of brush and weeds from around each wind turbine, maintenance roads, substations, and any operation and maintenance facilities.
- Regular inspection of transformer oil condition at each wind turbine pad-mounted step-up transformer
- Regular inspection of transformer oil condition at each main step-up transformer installed at the main substation
- Regular inspection of all substation components, including thermal imaging and other continuous monitoring techniques
- Regular inspection of fire extinguishers at all facility locations where they are installed
- All MRWF vehicles will be equipped with fire fighting equipment (fire extinguishers and shovels) as well as communications equipment for contacting the appropriate emergency response teams

An EMPLOYEE SAFETY MANUAL will be incorporated into the overall operating and maintenance policies and procedures for the facility. Included in that manual will be specific requirements for a fire prevention program. An outline of such a program from another operating facility is included below for reference.

TYPICAL EMPLOYEE SAFETY MANUAL FIRE PREVENTION PROGRAM

1. Introduction

MRWF recognizes that its employees have the right and need to know the potential fire hazards that exist in our workplace. It is also essential that we take all necessary precautions to protect our workplace from fire damage, to protect our employees, visitors, local residents and their property from injury or loss of life as a result of a fire. With this policy, MRWF will ensure the transmission of necessary information to employees regarding fire prevention and the proper procedures for involving professional fire fighters should it become necessary.

This policy is established to:

- Identify potential fire hazards and their proper handling and storage procedures and potential ignition sources.
- Identify housekeeping procedures for controlling the accumulation of flammable and combustible waste materials.
- Identify procedures for ensuring regular and proper maintenance of equipment and installed systems are carried out to prevent accidental ignition of combustible materials.
- Identify persons responsible for maintenance of equipment and systems installed to prevent or control ignition of fires.
- Identify persons responsible for control and accumulation of flammable or combustible waste materials.
- Ensure that employees are trained on the elements of this program.

It is the responsibility of the MRWF Safety Manager to maintain this Fire Prevention Program. A copy is provided to each employee.

2. Potential Fire Hazards

A. Stored Substances

By virtue of the nature of our business, there are likely to be one or more flammable or combustible materials stored on the premises. As part of MRWF's "HAZARD COMMUNICATIONS PROGRAM, all such substances are listed on a *Hazardous Substances*

List within the *Material Data Safety Sheets ("MSDS")* binder, which is readily accessible to all employees.

B. Potential Ignition Sources

- Welding (fabrication shop area, or in field)
- Cigarette smoking other than in designated areas
- Heat (extreme seasonal temperatures) and spontaneous combustion
- Reactivity between substances
- Mechanical failures

3. **Housekeeping Procedures**

Employees must follow the guidelines set forth in the MRWF Codes of Safe Practice.

Employees are strongly advised not to litter, and to attempt to clean up noticeable refuse. Litter is not only an eyesore, but can also be a potential fire hazard.

4. **Fire Prevention Equipment and Installed Systems**

A. Fire Extinguishers

A sufficient number of appropriately-rated fire extinguishers must be distributed throughout the workplace. Additionally, each company work vehicle will be equipped with a fire extinguisher.

All fire extinguishers shall be serviced once every 12 months or after each use by a licensed contractor per NFPA Standards.

B. Alarms

If a MRWF building does not provide an installed alarm system, all office and warehouse/shop personnel shall be instructed in use of the telephone paging system, whereby speaking a code "1200" shall alert all personnel on premises to evacuate. All office/warehouse/shop personnel shall dial "911" in the event of any emergency.

Field personnel shall notify "Base" via the radio communications system to report a fire.

All personnel shall follow the procedures detailed in their facility's "EMERGENCY ACTION PLAN".

5. Responsible Persons

All employees are expected to follow the guidelines set forth by the MRWF Codes of Safe Practice and to exhibit common sense in fire prevention efforts.

The facility Safety Coordinator is responsible for ensuring regular and proper maintenance of fire prevention equipment and installed systems and for the control and accumulation of flammable or combustible waste materials.

The facility Safety Coordinator shall notify the local fire department of any situation or incident where there is any question about fire safety, and will invite an officer of the fire department to visit the workplace and answer any questions to help implement a safe operating plan.

6. Employee Training

New employees will be oriented to this Fire Prevention Plan via a copy and review of this document in combination with their orientation to other company safety policies.

Beyond new hire orientation, the facility Safety Coordinator shall be responsible for providing training to employees on the use of fire extinguishers and the mitigation of fire hazards.

7. Land Wildfire Fighting (field sites)

MRWF will not request employees to engage in land wildfire fighting. However, the Company will continuously provide its employees and equip its vehicles with small scale fire prevention equipment. Such equipment is only to be utilized to attempt to extinguish small incipient stage fires if the employee is present when the fire starts and the safety equipment is within the employee's immediate reach without any perceived hazard. In the event the fire is out of control, the employee must leave the area and immediately summon fire fighting professionals.