

## **Chokecherry and Sierra Madre Wind Energy Project**

### **Preliminary Emergency Response Plan**



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## ***Table of Contents***

1. Objective .....	1
2. Project Definition .....	1
3. ERP Team .....	3
3.1 ERP Coordination Team .....	3
3.2 Carbon County Emergency Management Coordinator .....	3
3.3 Carbon County Sheriff’s Department .....	3
3.4 Carbon County Fire Department .....	3
3.5 City of Rawlins Fire Department .....	3
3.6 Municipal Hospital of Carbon County .....	4
3.7 Other Emergency Service Providers .....	4
4. Evaluation of Site and Activity Risks .....	4
4.1 Site Risks .....	4
4.2 Activity Risks .....	5
5. On-Site Emergency Response Requirements .....	5
5.1 Staffing .....	5
5.2 Equipment.....	5
5.3 Training .....	5
6. Communications .....	6
6.1 Signage .....	6
6.2 Project Radio.....	6
6.3 Cell Phones.....	6
6.4 Land-Line Telephone.....	6
6.5 General Emergency Response Protocol.....	6
7. Response Plans.....	7
7.1 Medical Emergencies.....	7
7.2 Fire or Hazardous Materials Release .....	7
7.3 Severe Weather and Catastrophic Events .....	7
Appendix A Project Map.....	1
Appendix B ERP Coordination Team .....	1
Appendix C Response Forms and Checklists .....	1

***Table of Figures***

Figure 1. Project Construction Timeline ..... 2

## 1. OBJECTIVE

The Power Company of Wyoming LLC (PCW) has developed this Emergency Response Plan (ERP) for the Chokecherry and Sierra Madre Wind Energy Project (CCSM Project) to document the coordinated approach for responses to emergencies that may occur on the CCSM Project Site. This ERP reviews likely risks and emergencies that could occur, detail roles and responsibilities for PCW, contractors, vendors, regional emergency service providers, and details response protocols.

This ERP has been developed assuming that PCW will provide on-site resources for the initial response to most emergencies during the construction, operations and decommissioning of the CCSM Project. Emergency response resources and capabilities on-site will align with the risk associated with each stage of the CCSM Project.<sup>1</sup> PCW will request assistance as needed from local emergency response agencies to support emergencies requiring resources beyond those available on-site.

This ERP will be updated periodically as the CCSM Project construction, operations and decommissioning activities evolve. PCW will continue to coordinate with local and regional emergency response service providers to maintain adequate resources and communication.

This version of the ERP has been developed based on current pre-construction information and does not yet include information from contractor safety plans or vendor data. This ERP will be modified accordingly as the schedule and plans are finalized, contractors are hired, and equipment is selected.

## 2. PROJECT DEFINITION

PCW is developing a 2,000 to 3,000 MW wind energy project on The Overland Trail Ranch (Ranch) in Carbon County, Wyoming. The CCSM Project consists of the following facilities:

- 1,000 wind turbines
- Over 360 miles of access roads
- Underground and overhead 34.5kV electrical collection lines
- Electrical substations
- Estimated 54 miles of 230kV electrical transmission lines
- Rail distribution facility
- Operations center and two maintenance facilities
- Laydown areas
- Potential construction trailer complex
- Water extraction sites

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<sup>1</sup> Due to the limited amount of activity during pre-construction, PCW will not maintain on-site resources, but will rely upon local emergency response services.

A map of the approximate location of these CCSM Project facilities is included as **Attachment 1**. Additional information on these facilities can be found in the CCSM Project’s Carbon County Conditional Use Permit Application. The location of these facilities is approximate and is subject to change as the CCSM Project design is finalized.

PCW is currently estimating an eight-year construction schedule. **Figure 1** shows the anticipated flow of construction. PCW anticipates mobilizing for construction in May of each year and demobilizing for winter in November. Detailed construction plans for each stage of construction will be developed prior to each year of construction. After the first turbines reach commercial operation, a maintenance staff will operate the CCSM Project year-round.

**Figure 1. Project Construction Timeline**

	PHASE I CONSTRUCTION					PHASE II CONSTRUCTION		
	2014	2015	2016	2017	2018	2019	2020	2021
Phase I Haul Road & Facilities	Construct							
West Sinclair Rail Facility		Construct		Operate				
Road Rock Quarry	Open	Operate						
Phase I Sierra Madre			Construct					
Phase I Chokecherry				Construct				
Phase II Sierra Madre						Construct		
Phase II Chokecherry							Construct	

### **3. ERP TEAM**

This section describes the on-site, local and regional emergency response service providers, including roles and responsibilities, available resources, and contact information.

#### **3.1 ERP COORDINATION TEAM**

A coordination team including members representing the CCSM Project and local and regional emergency service providers has been created to coordinate the development and maintenance of this ERP. A listing of members is included in **Attachment 2**.

#### **3.2 CARBON COUNTY EMERGENCY MANAGEMENT COORDINATOR**

Carbon County's Emergency Management Coordinator is tasked with planning and coordination for the various county, state and local emergency response agencies. In that capacity, the coordinator is participating in the development of this ERP.

#### **3.3 CARBON COUNTY SHERIFF'S DEPARTMENT**

The Carbon County Sheriff's Department provides law enforcement services for the county outside the jurisdiction of municipalities with local police departments and outside Interstate 80, which is patrolled by the Wyoming Highway Patrol. Therefore, law enforcement on the CCSM Project Site is in the jurisdiction of the Carbon County Sheriff's Department, and they are therefore participating in the development of this ERP.

#### **3.4 CARBON COUNTY FIRE DEPARTMENT**

The Carbon County Fire Department is an all-volunteer department with stations near the CCSM Project Site in Rawlins and Saratoga. Because the CCSM Project is outside the boundaries of the surrounding communities, it is within the jurisdiction of the Carbon County Fire Warden and they are participating in the development of this ERP.

In 2012, members of the Carbon County Fire Department attended high angle rescue training specifically intended for wind turbines. To date there are have been no calls for response to any wind energy projects within Carbon County.

#### **3.5 CITY OF RAWLINS FIRE DEPARTMENT**

Rawlins maintains a fire department staffed by 10 paid and 16 volunteer firefighters. Because of their staffing and close proximity to the northern entrance to the CCSM Project Site, the Rawlins Fire Department may response faster to an emergency than the Carbon County Fire Department. As such, they are participating in the development of this ERP.

Along with the Carbon County Fire Department, members of the City of Rawlins Fire Department received high angle rescue training in 2012. The City of Rawlins Fire Department also has hazardous material (HAZMAT) response equipment on-hand sufficient for any materials expected to be used for the construction, operation and decommissioning of the CCSM Project.

### **3.6 MUNICIPAL HOSPITAL OF CARBON COUNTY**

The Municipal Hospital of Carbon County is the primary hospital for the region, and is located close to the CCSM Project Site in Rawlins. It maintains a 24-hour trauma-rated emergency room and a 25-bed critical care facility. The hospital operates three ambulances, which may be available to respond to an emergency at the CCSM Project Site. PCW has invited the hospital's Emergency Medical Services coordinator to participate in the ERP coordination team.

Additionally, three more ambulances are stationed in the region around the Project- two in Saratoga and one in Hanna. If it is anticipated by the coordination team that these ambulances would be required to respond to an emergency at the CCSM Project Site, PCW will work with the hospital's EMS coordinator to plan for such a response.

### **3.7 OTHER EMERGENCY SERVICE PROVIDERS**

PCW will meet with and provide copies of the ERP to other emergency service providers in the region as requested. While PCW is not expecting these agencies will need to respond to an emergency at the CCSM Project Site, it remains a possibility and therefore, if requested, these agencies will be kept up-to-date on the CCSM Project and ERP. These emergency service providers include:

- City of Rawlins Police
- Town of Sinclair Police
- Town of Saratoga Police
- Wyoming Highway Patrol
- BLM Ranger
- Sinclair Refinery Emergency Coordinator

## **4. EVALUATION OF SITE AND ACTIVITY RISKS**

This section of the ERP evaluates the risks associated with the CCSM Project Site, as well as current and near-term activities. It will be updated as activities and equipment change on site.

### **4.1 SITE RISKS**

As discussed in Section 2, the CCSM Project is located in Carbon County, Wyoming on the Ranch. Risks associated with the CCSM Project Site (independent of activities) include:

- High altitude
- Extreme cold temperatures and exposure in winter
- High desert climate in summer
- Access to remote areas of the CCSM Project Site
- Poor cell phone coverage
- Wildlife interaction
- Close proximity to on-going road construction on CR-401

## 4.2 ACTIVITY RISKS

The Project is currently undergoing pre-construction design and permitting activities, which include:

- Use of ATVs and 4-wheel drive trucks/SUVs
- Work in remote areas without support
- Work on-site by personnel who may not be familiar with the Ranch and the terrain

The current schedule calls for civil construction to begin in the summer of 2013. Activities associated with civil construction that will require evaluation and response planning include:

- Earthmoving equipment delivery
- Clearing and grading
- Road compaction
- Aggregate placement
- Connection to CR-401

## 5. ON-SITE EMERGENCY RESPONSE REQUIREMENTS

This section describes the resources and requirements necessary for the CCSM Project to provide immediate on-site response to emergencies. The information provided below considers current and immediately foreseeable activities for the CCSM Project and will be updated as the CCSM Project progresses.

### 5.1 STAFFING

To provide immediate on-site response to emergencies, PCW expects to have emergency response staff with first-responder training on-site during construction activities and will consider the addition of Emergency Medical Technicians as resources and needs are evaluated. The number of staff and their locations will be identified as the construction work plan is developed and will be adjusted based on the size of the workforce and the type of activities being performed.

### 5.2 EQUIPMENT

Rescue and first aid equipment along with automated external defibrillators (AEDs) will be kept with the emergency response staff or stationed strategically throughout the CCSM Project Site. All equipment will be easily accessible and clearly marked.

### 5.3 TRAINING

PCW anticipates all construction personnel will have or will be given basic safety training including first aid and CPR as appropriate. Additional and refresher training on rescue techniques and procedures will be given as needed to maintain adequate on-site response appropriate to the level of site activity.

Additionally, PCW will identify opportunities for coordination and training with local emergency service providers. This training will be appropriate to the activities expected during the upcoming year of construction and may include formal training and/or emergency response drills.

## **6. COMMUNICATIONS**

This section reviews the communication methods and protocols available for the CCSM Project Site, and how they may be used for emergency response. Detailed information will be provided immediately prior to construction.

### **6.1 SIGNAGE**

PCW will post signs within the CCSM Project Site as well as at the CCSM Project's entrances providing workers and the public with emergency contact information. Furthermore, signs will be posted at entrances and intersections to aid emergency responders in locating specific turbines or facilities.

### **6.2 PROJECT RADIO**

The temporary construction office and when constructed, the operations center, will each have a radio. Each field crew and vehicle for the CCSM Project will also have a radio. In the event of an emergency, radios will be provided to outside emergency response vehicles as they arrive on site.

### **6.3 CELL PHONES**

The CCSM Project Site currently has cell phone service in most areas; however, there are also areas with unreliable service. After mobilization, PCW will continue to evaluate the need for portable cell towers or other equipment to expand cell service; however, some gaps in coverage are expected and cell phones are not anticipated to be the primary form of communication during an emergency.

### **6.4 LAND-LINE TELEPHONE**

Land-line telephones will be available at permanent CCSM Project facilities and at staffed construction trailers to the extent practical.

### **6.5 GENERAL EMERGENCY RESPONSE PROTOCOL**

In the event of an emergency, CCSM Project personnel will alert on-site emergency response personnel who will institute the appropriate response plan (see Section 7). In the event that on-site personnel cannot be reached, regional emergency services will be notified.

## 7. RESPONSE PLANS

PCW and its contractor(s) will develop response plans for emergency situations. These plans will be provided to emergency response agencies upon request and will be updated on a regular basis. Copies of the response plan(s) and will be available at multiple locations on site. In the event an emergency occurs, a post-incident review of the plan will be conducted. The plans will be categorized in a manner similar to the sections below. Once developed, the plans will be included in **Attachment 3** of this plan.

### 7.1 MEDICAL EMERGENCIES

Response plans for medical emergencies will include items such as:

- Work-related injuries
- Non-work related emergencies (e.g. heart attack)
- Medical conditions (e.g. diabetes)
- Site-related emergencies (e.g. snake bite)
- Weather-related injuries (e.g. frost bite)

### 7.2 FIRE OR HAZARDOUS MATERIALS RELEASE

Response plans for fire or hazardous materials release will include items such as:

- Equipment fires
- Structure fires
- Wildfires
- Gasoline or oil spills

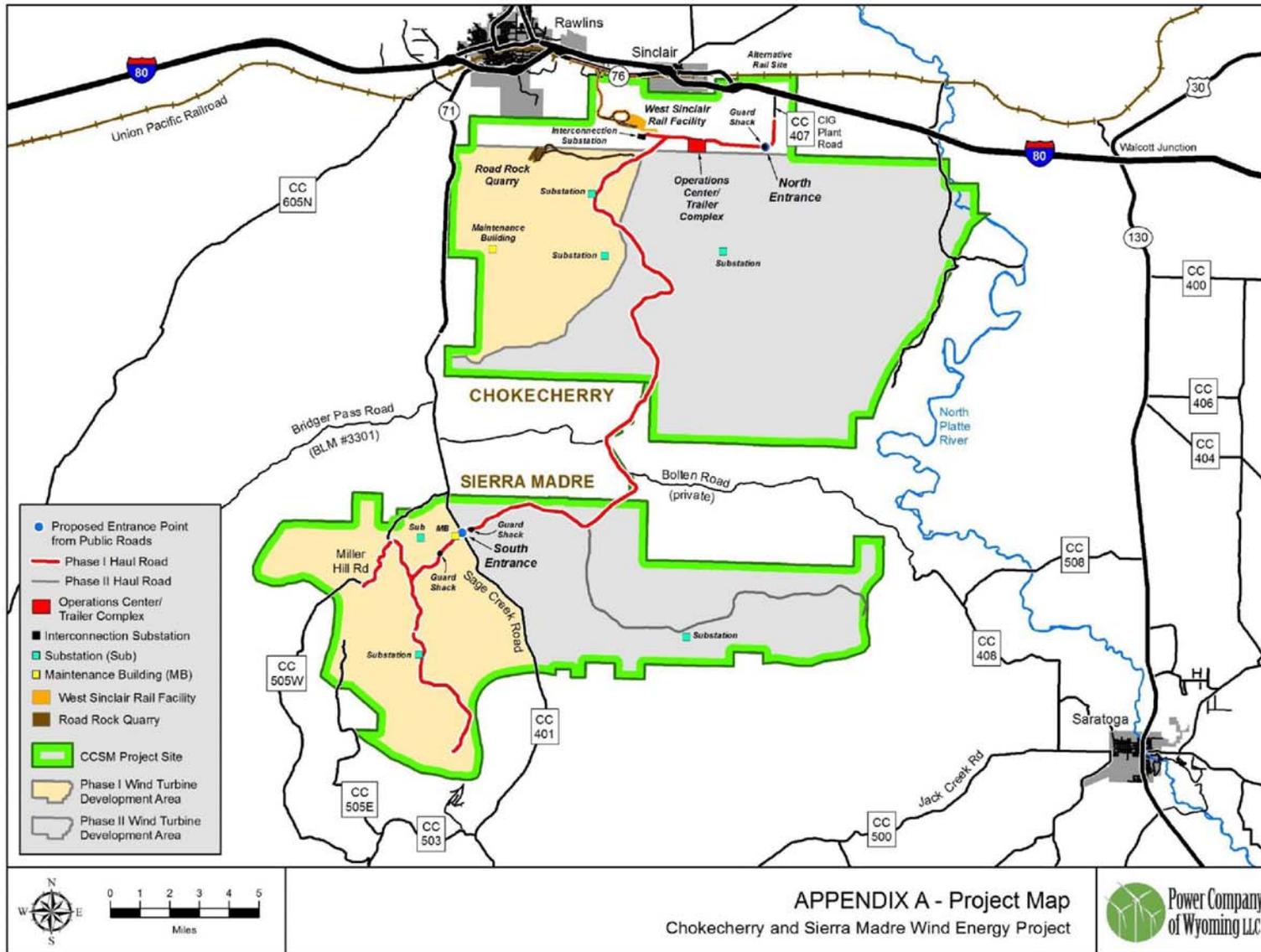
### 7.3 SEVERE WEATHER AND CATASTROPHIC EVENTS

Response plans for severe weather and catastrophic events will include items such as:

- Blizzard or extreme cold temperatures
- Severe thunderstorm
- Tornado
- Uncontrolled release from nearby chemical source

***Attachment 1 Project Map***

Chokecherry and Sierra Madre Wind Energy Project  
 Preliminary Emergency Response Plan



***Attachment 2 ERP Coordination Team***

**Current ERP Coordination Team Members**

Agency/Company	Person	Role	Phone	Cell	E-mail
PCW	Ryan Jacobson	Director – Engineering & Construction	303-299-1354	303-408-2941	<a href="mailto:Ryan.Jacobson@tac-denver.com">Ryan.Jacobson@tac-denver.com</a>
CC Emergency Management	John Zeiger	Coordinator	303-328-2750		<a href="mailto:johnzeiger@carbonwy.com">johnzeiger@carbonwy.com</a>
CC Sheriff’s Dept.	Mike Morris	Undersheriff	307-324-7714		<a href="mailto:mikemorris@carbonwy.com">mikemorris@carbonwy.com</a>
CC Fire Dept.	John Rutherford	Warden	307-328-4596	307-320-7964	<a href="mailto:jrr@firehousemail.com">jrr@firehousemail.com</a>
Rawlins Fire Dept.	Scott Hannum	Chief	307-328-4596		<a href="mailto:shannum@rawlins-wyoming.com">shannum@rawlins-wyoming.com</a>
Memorial Hospital of CC	Candi Hoffmann	EMS Director	307-324-8343	307-321-2491	
BLM	Jeff Wigzan	Ranger	307-328-4200		

***Attachment 3 Response Forms and Checklists***

Forms and checklists developed for the responses described in Section 7 will be included in this attachment when available prior to the start of construction.