Big Blue River Wind Preliminary Emergency Action/Evacuation Plan

Big Blue River Wind Farm, LLC

April 2019

All emergencies shall be recorded in the Operations Electronic J5 Logbook to include: times, names, indications, probable causes, and actions taken. In addition, as appropriate, staff shall begin an accident investigation as soon as the emergency response actions are completed. Refer to the Calpine Standard No.6 for accident / incident investigation procedures.

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EMERGENCY CONTACT LIST

CONTACT	NUMBER	NOTES
General Emergency Contacts		
General Emergency	911	
New Castle Fire Department	765-521-6815	
Indiana State Police	317-899-8293	
New Castle Police Department	765-529-4890	
Henry County Sheriff	765-521-7032	
Hospitals and Other Medical		
New Castle/Henry Co. Paramedic	765-529-4890	
Henry Community Health	765-521-0890	New Castle, IN
Poison Center	(800) 222-1222	
Spill/Release Reporting; General Environmental: NOTE: All spill reports and other environment-related outreach will be made by the Plant Manager or his or her designee		
National Response Center	(800) 424-8802	Federally reportable spills/releases
Indiana Department of Environmental Management Emergency Spill Line	888-233-7745	State-reportable spills/releases
U.S. EPA Region 5	312-353-2000	Non-spill-related environmental emergencies
Indiana Department of Environmental Management Non- emergency	317-232-8603	Non-spill-related environmental emergencies
General Municipal Outreach: NOTE: All outreach to the County or towns regarding emergency incidents will be made by Calpine Corporation's Director of Communications or his or her designee		
Henry County Commissioner	765-529-4705	Emergency incidents of general interest to community
Henry County Clerk	765-529-6401	Emergency incidents of general interest to community
Bluestone Wind/Calpine Contacts		
BBR Wind Operation and Maintenance Manager	TBD	
BBR Wind Control Room Operator	TBD	
Calpine Plant Manager	TBD	
Calpine EH&S Manager	TBD	

NOTE: Contact details on supervisors, qualified first aiders, and other personnel will be listed on a separate sheet that will be issued with the final plan and updated as construction of the Project progresses.

OVERVIEW OF EMERGENCY ACTION/EVACUATION PLAN

1. Project Description

The Big Blue River Wind Energy Project (the "Project") will consist of up to 38 wind generator turbines (WTG) depending on the specific WTG selected. In addition to the WTGs, the Project will include access roads, a collection substation, a point of interconnection (POI) substation, an operation and maintenance (O&M) building, and other ancillary facilities and equipment.

The Project will be located within Henry County, Indiana. A site plan depicting the overall Project layout and location will be included as Appendix B.

2. Purpose and Overview of Plan

Big Blue River Wind Farm, LLC (BBR Wind) has developed this preliminary Emergency Action/Evacuation Plan (EAP) to provide direction on emergency response during operation of the Project. The final EAP for Project operation will be developed in coordination with local emergency services agencies. An EAP addressing emergency response during construction will be developed by the Engineering, Construction and Procurement (ECP) contractor, in consultation with BBR Wind, once the ECP contract has been awarded.

The EAP begins with a basic discussion of emergency notification and evacuation procedures. It then describes the actions to be taken to respond to specific types of emergencies, including:

- Injury/illness;
- Fire;
- Spills/releases;
- Earthquakes;
- Severe weather conditions (electrical storms, tornados, high winds, flooding, and snow or ice storms); and
- Physical security threats and criminal activity (bomb or other security threats, discovery of suspicious package/device, active shooter or other violent situations, suspicious persons or activities, vandalism, equipment tampering, sabotage or trespassers).

Note that certain aspects of the BBR Wind project have not been finalized. BBR Wind has not identified the final WTG model for the Project. Accordingly, certain details of the plan will need to be revised/updated in the final EAP.

3. Location/Distribution of Plan

A copy of the final EAP will be located in the control room in the O&M building. In addition, the final EAP will be furnished to local emergency responders to provide them with information about BBR Wind's emergency response procedures and to assist them in developing their own procedures for responding to incidents at the Project. The local emergency responders also will be invited to visit the Project to familiarize themselves with possible emergency response concerns.

4. Emergency Contacts and Related Information

A list of key emergency phone numbers (both internal and external) is included in the front of this plan.

5. Responsibility for Developing and Implementing Plan

BBR Wind is responsible for developing and updating this plan. An overview of the roles of individuals responsible for plan implementation is contained in Appendix A. The plan will be reviewed annually. Whenever problems with the plan are identified during and after an emergency, the plan will be revised as appropriate. The results of these reviews will be recorded on the Record of Reviews and Revisions at Appendix F.

6. Emergency Equipment

A list of available emergency equipment is found in Appendix D.

7. Recordkeeping/Documentation

BBR Wind has prepared Response Action Checklists for specific categories of emergencies. These checklists must be completed by personnel responsible for implementing the emergency response following each emergency incident. All incidents must be reported/recorded in accordance with approved Calpine Corporation procedures.

PROJECT LOCATION

A map of the Project area with a list of coordinates for each turbine is included as Appendix B. This information should be used to direct emergency responders to the precise location of the emergency. The map includes the locations of assembly points within evacuation areas.

EMERGENCY NOTIFICATION PROCEDURES

1. Communication Equipment

The following communications resources will be available in the event of an emergency:

- Each employee or contractor who is working at the Project will be required to carry a two-way radio. The two-way radios will be capable of:
  - Notifying Project employees/contractors of an emergency; and
  - Providing immediate emergency instruction to personnel.
- Also, it is anticipated that all personnel working at the Project will be carrying personal cell phones.

  NOTE: The two-way radios are not capable of dialing 911 directly. **In the event of an emergency, personnel can dial 911 on their cell phones or contact the Plant Manager using the two-way radios. The Plant Manager will call 911 and relay the necessary information to plant personnel.**
- Cisco IP phones will be located in the Control Room within the O&M building.
- Emergency pull stations for fire alarms will be located next to all exits of the O&M building.
- A satellite phone will be located in the Control Room.
  - Note: The satellite phone is a back-up to the emergency communications mentioned above. **Only use the satellite phone when all other forms of communications are inoperable.** You cannot dial 9-1-1 from Iridium phones. To access emergency services, a number is in place in the phone memory known as SOS* (767*).

The topography of the Project Site may affect how certain communications systems function. A communications assessment will be conducted at each turbine site to ensure that the communications system works at that location.

2. Notification

If an emergency occurs that poses an immediate threat to the health and safety of Project personnel or the surrounding community, make the following notifications:

- **CALL 911.** See Section 3 below for further instructions.

- **CONTACT THE PLANT MANAGER** and apprise them of the situation. The Plant Manager will provide instructions to on-site personnel and make the necessary communications, including outreach to the Operation and Maintenance Manager (O&M Manager) and any other necessary internal communications. The Plant Manager will make any necessary internal notifications.

  If the emergency is specific to the Project[1] and/or has the potential to affect the public (e.g., fires, hazardous material spills or releases, and certain physical security threats), the Plant Manager will notify host and adjacent landowners and the County/Towns EMS, as appropriate.

NOTE: If there is a question about whether an outside emergency response is necessary, call the Plant Manager first and ask for guidance.

3. Calling 911

WHEN CALLING 911, STAY CALM AND BE SPECIFIC. State the following:

- **Your Name**
- **That you are calling from the Big Blue River Wind Project**
- **Location of emergency**
  - Give the operator the location of the emergency by referring to the turbine address (WTGs will be given specific addresses through the local EMS).
  - If the emergency involves injury/illness, indicate whether the person is out in the open, trapped in some fashion and/or at height within a WTG.
- **Available call back phone number**
- **Nature of the emergency.** Possible categories include, but are not limited to:
  - Medical emergency;
  - Fire (turbine/equipment fire, brush fire, building fire);
  - Transport incident (passenger vehicle/truck; aircraft impact); and
  - Criminal activity/security threat.

4. Other Immediate Notification Requirements

Certain incidents do not require notification of traditional emergency responders (fire departments and emergency medical services) but nevertheless require immediate outreach.

[1] This would not include general emergencies that would impact the community at large (e.g., earthquakes, snowstorms, etc.).

- **Spills/releases of petroleum or hazardous substances**
  - **Contact the Plant Manager** and apprise them of the circumstances. The Plant Manager will reach out internally to decide whether the spill/release must be reported to federal, State and/or local authorities. See the Project's Spill Prevention, Control and Countermeasures Plan (SPCC Plan) for additional details relating to spill reporting.
- **Community/media outreach during/following major event**
  - If an incident involves a significant emergency response or is otherwise the focus of community or media attention, the Plant Manager will make the necessary internal notifications. All decisions regarding community or media outreach are made by Calpine Corporation's Director of Communications (or his or her designee).

EVACUATION PLAN

WTGs such as those that will be utilized as part of the BBR Wind Project pose little risk to the community. The Project is located in a rural area well away from population centers. The setback requirements governing the location of the WTGs and ancillary equipment also protect people and structures in the vicinity of Project from potential harm in the event of an emergency. These factors minimize the potential need for community evacuation. However, events such as fire, earthquake, bomb threat or other security breach may require evacuation of the Project to protect the employees and contractors working there.

1. General Evacuation Procedures

The procedures below apply in the event evacuation of the O&M building is required.

- **ASSESSMENT** The Plant Manager will evaluate the emergency to determine the severity of the event and whether a personnel evacuation is required.

- **NOTIFICATION** If evacuation is necessary, the Plant Manager or their designee will use Project's two-way radios, cell phones or other communications devices to give instructions as required.

- **EVACUATION**
  - Follow instructions of Plant Manager or their designee.
  - Proceed with extreme caution.
  - Depending on the type of emergency, observe wind direction and travel upwind at all times.
  - Handicapped visitors will be escorted by Project personnel to the assembly points in the evacuation area.

- **ASSEMBLY POINTS** The Plant Manager or their designee will lead personnel to safety at the assembly point.
  - Maps depicting assembly points will developed prior to commencement of operation and will be included with this plan as Appendix B.

- **PERSONNEL ACCOUNTING** The Plant Manager or their designee will account for all personnel after assembling at the assembly point using the Visitor's Log and employee sign-in sheet.

2. Turbine Evacuation

Most WTG repair/maintenance activities are performed by teams of two employees/contractors. In the event dangerous conditions arise during WTG repair/maintenance activities (e.g., fire, thunderstorms other dangerous weather conditions), the affected employees/contractors will take the following steps:

- **ASSESSMENT/IMMEDIATE RESPONSE** The crews working at the WTG site will assess conditions, determine whether they pose an immediate safety/health threat, and initiate evacuation, if necessary.

- **NOTIFICATION** If conditions at the site are questionable, use two-way radios, cell phones or other communications devices to inform the Plant Manager of the situation and request guidance.
  - If immediate evacuation is commenced without first consulting Plant Manager, contact the Plant Manager and apprise them of the situation once evacuation is completed.

- **EVACUATION** Climb down the WTG tower and/or evacuate the area.

- **ASSEMBLY POINTS** The appropriate assembly point differs depending on the nature of the emergency. See the appropriate emergency-specific section of this EAP for instructions on where to assemble in the event of an emergency.

- **PERSONNEL ACCOUNTING** Personnel will contact the Plant Manager and report whether everyone at the location has been accounted for.

See Appendix C for procedures governing evacuation of injured persons from height.

NOTE: Local emergency responders do not have the equipment or training to climb the WTG tower and assist in lowering injured/ill individuals to the ground. Responsibility for this task rests solely with BBR Wind and/or its contractors.

MEDICAL PROCEDURE

1. Immediate Response to Injury/Illness Generally

If the emergency involves injury/illness to personnel, the following steps should be followed:

- **SURVEY THE SCENE** to confirm whether it is safe to enter the area where the injured person is located.
  - Ensure circuit is de-energized before touching victim in the case of electric shock.

- **DO NOT MOVE VICTIM** unless it is unsafe for the victim to remain in a particular location.

- **BRIEFLY EXAMINE THE VICTIM** to determine the severity of the injury/illness.

- **CONTACT THE PLANT MANAGER OR DIAL 911 DIRECTLY IF VICTIM REQUIRES IMMEDIATE ATTENTION** and relay the necessary information to the 911 operator (see Emergency Notification Procedures above).
  - If personnel dial 911 directly using their cell phones, **contact the Plant Manager** and inform them of the injury/illness.

- **ADMINISTER FIRST AID** as appropriate and in accordance with training.
  - If the victim is conscious, ensure you have permission to help.
  - If victim has stopped breathing, perform CPR and use the AED, if available and it can be done safely.
  - Stop bleeding by applying pressure directly to wound.
  - Keep victim warm to help reduce the potential of shock until medical assistance arrives.

  NOTE: All BBR Wind employees/contractors engaged in WTG operation and maintenance will be provided basic first aid and CPR training.

- **SEND AVAILABLE INDIVIDUAL** to meet the rescue unit and direct them to accident scene. A representative of BBR Wind will accompany the victim to the hospital.

If the victim does not require urgent medical attention, contact the Plant Manager and inform them of the injury/illness. If the injury can be addressed with first aid only (e.g., minor cuts and bruises), administer first aid. If further attention is required, the Plant Manager will arrange to take the injured person to the nearest hospital or urgent care center.

2. Special Requirements for Injuries/Illnesses at WTG Height

See Appendix C for procedures governing evacuation and management of injured persons from height.

NOTE: Local emergency responders do not have the equipment or training to climb the WTG tower and assist in lowering injured/ill individuals to the ground. Responsibility for this task rests solely with BBR Wind and/or its contractors. Once a WTG supplier has been selected, BBR Wind will consult with the company to develop procedures and training for elevated rescue.

RESPONSE ACTION CHECKLIST – MEDICAL EMERGENCIES

	Action	Primary Responsibility	Yes No	Initials
1.	Survey scene and examine victim.	Plant Personnel	☐ ☐	
2.	Call 911 or Plant Manager re: injury/location (if immediate response required).	Plant Personnel	☐ ☐	
3.	Notify Plant Manager of injury/location (if plant personnel contacted 911 directly via cell phone).	Plant Personnel	☐ ☐	
4.	Move injured person only if it is unsafe to remain in particular location.	Plant Personnel	☐ ☐	
5.	Provide first aid.	Plant Personnel	☐ ☐	
6.	Provide access and direction to emergency vehicles.	Plant Personnel	☐ ☐	
7.	Notify O&M Manager.	Plant Personnel	☐ ☐	
8.	For minor injuries, transport to clinic or hospital, if necessary. O&M Manager or designee to accompany victim to hospital.	O&M Manager or Designee	☐ ☐	
9.	Contact Environmental, Safety & Health.	Plant Manager	☐ ☐	
10.	Follow-up on status of injured person.	Plant Manager	☐ ☐	

FIRE PROCEDURE

1. Non-WTG Fires (e.g., O&M Building, other non-WTG structures)

In the event of a fire, the employee shall:

- **REPORT** the fire to the Plant Manager.

- **EXTINGUISH** If the fire is small enough so as not to endanger personnel, determine the appropriate fire extinguisher and attempt to extinguish the fire.
  - If the fire is successfully extinguished, report the outcome to the Plant Manager.
  - Monitor the site to ensure the fire does not reignite.

- **ASSESS** the size and type of the continuing fire, sound the fire alarm (if any), and notify all personnel of the problem.

- **CALL 911**

- **EVACUATE** all unnecessary personnel from the immediate area of fire. If necessary, follow the Evacuation Plan.

2. Turbine Fire

Fire protection at the WTGs will depend on an automated fire detection and extinguishment system that is supervised remotely by the Control Room. The precise system in place will be determined once the final WTG model is selected.

In the event of a fire at a turbine while crews are working, employees shall:

- **REPORT** the fire to the Plant Manager.

- **EXTINGUISH** If the fire is small enough so as not to endanger personnel, use the available fire extinguisher and attempt to extinguish the fire.
  - If the fire is successfully extinguished, report the outcome to the Plant Manager.
  - Evacuate the WTG tower and await further instructions.

- **EVACUATE THE TURBINE** if the fire cannot be safely extinguished, use the fire extinguisher to create a safe evacuation route and evacuate to a designated safe location.

- **CALL 911** upon reaching safe location.

- **EXIT THE WTG TOWER** and report back to the Plant Manager.

- **ESTABLISH A CONTROLLED AREA** of approximately 200 feet around the base of the WTG tower. **DO NOT ENTER THE CONTROLLED AREA.** Allow fire debris to fall freely within the controlled area. Watch for debris to go beyond the controlled area and for possible brush fires.
  - If brushfire starts and is small enough so as not to endanger personnel, use available fire extinguishers and attempt to extinguish fire.

- **EVACUATE THE AREA IF FIRE POSES AN IMMEDIATE RISK.** Otherwise wait for the arrival of the local fire department.

  Further details regarding the procedures necessary to address WTG fires will be provided in the Final EAP once the final WTG model is selected.

NOTE: As a matter of industry practice, fires in the nacelle that cannot be immediately extinguished are typically allowed to burn themselves out. Local fire departments are called in the event of a turbine fire to prevent the fire from spreading on the ground. Local fire departments typically are not equipped to extinguish fires at height.

RESPONSE ACTION CHECKLIST – FIRE

	Action	Primary Responsibility	Yes No	Initials
1.	Notify O&M Building of fire, including location and size.	Plant Personnel	☐ ☐	
2.	Attempt to extinguish fire with portable extinguisher, if safe to do so.	Plant Personnel	☐ ☐	
3.	Call 911 and request firefighting assistance, if necessary.	Plant Personnel or Plant Manager	☐ ☐	
4.	Notify O&M Manager.	Plant Manager	☐ ☐	
5.	Assess extent of fire and take appropriate action.	Plant Manager or Designee	☐ ☐	
6.	Evacuate building/turbine if necessary.	O&M Building (Plant Manager); Turbine Fire (Plant Personnel)	☐ ☐	
7.	Establish sterile zone (Turbine Fire only).	Plant Personnel/O&M Manager	☐ ☐	
8.	Assess extent of injuries and missing people.	Plant Manager or Designee / Plant Personnel/ O&M Manager	☐ ☐	
9.	Administer first aid.	Plant Personnel	☐ ☐	
10.	Call 911 and request medical assistance and/or a rescue unit, if either is necessary.	Plant Manager	☐ ☐	
11.	Provide access and direction to emergency personnel.	Plant Personnel	☐ ☐	
12.	Provide advice and assistance for rescue, utilities, location of oil and hazardous materials, etc.	O&M Manager /Plant Manager	☐ ☐	
13.	Contact Environmental, Safety & Health.	Plant Manager	☐ ☐	
14.	Follow up on status of injured personnel.	Plant Manager	☐ ☐	

HAZARDOUS MATERIAL SPILL OR RELEASE

Various equipment at the Project, including the WTGs, contains hydraulic and other oils. In addition, certain equipment may contain hazardous chemicals such as antifreeze or corrosives. Also, oils and chemicals may be used when operating/maintaining the Project.

In the event of an oil, hazardous waste, or chemical spill or chemical exposure accident, personnel shall perform the following procedures as applicable:

- **IF PERSONNEL DIRECTLY EXPOSED TO CHEMICAL CONTAMINATION**, take the following steps:
  - Begin flushing area immediately with water;
  - **Call 911** if emergency attention required; and
  - Obtain safety data sheet (SDS) from 3E online or O&M building to aid in administering first aid. Send the SDS with the victim to the hospital.

- **REPORT** the incident immediately to the Plant Manager, including extent of any injuries, if any, type of material spilled, amount, direction, and whether spill has impacted water or other sensitive environmental receptors. The Plant Manager will initiate procedures to determine whether the spill must be reported to federal, State or local authorities and/or whether a third party must be called to assist in responding to/remediating the spill in accordance with the SPCC Plan.

- **ISOLATE/STOP SPILL** (i.e., close valve/stop pump) unless it cannot be done safely.

- **EVACUATE AND CORDON OFF AREA OF SPILL** Remove any unnecessary personnel from the immediate area of the release and have them move upwind, if possible. If the incident is a large, uncontrollable and/or dangerous release, contact the Plant Manager and follow the Evacuation Plan. Use appropriate personal protective equipment (PPE).

- **ASSESS EXTENT OF SPILL** (amount and type of material spilled, fire potential, whether contained, etc.).

- **CONTAIN SPILL** using appropriate spill kit (oil or chemical).

- **CLEAN UP THE SPILL** as instructed by Plant Manager.
  - For larger spills, a third party contractor may be called in to clean up the spill/release.

RESPONSE ACTION CHECKLIST– HAZARDOUS MATERIAL SPILL OR RELEASE

	Action	Primary Responsibility	Yes No	Initials
1.	Assess whether spill resulted in direct exposure to personnel and implement first aid if necessary.	Plant Personnel	☐ ☐	
2.	Call 911 if exposed persons require immediate medical attention.	Plant Personnel	☐ ☐	
3.	Notify O&M Building of spill and spill location.	Plant Personnel	☐ ☐	
4.	Isolate/stop spill (close valve, stop pump), if it can be done safely.	Plant Personnel	☐ ☐	
5.	Evacuate and cordon area (i.e., remove unnecessary personnel). Use appropriate PPE.	Plant Personnel/Plant Manager	☐ ☐	
6.	Notify Plant Manager.	O&M Manager	☐ ☐	
7.	Assess extent of spill (contained or uncontained). Contain spill if possible.	Plant Personnel/O&M Manager	☐ ☐	
8.	Clean up spill as directed by Plant Manager or wait for cleanup contractor.	Plant Personnel/O&M Manager	☐ ☐	
9.	Contact Environmental, Health & Safety.	Plant Manager	☐ ☐	
10.	If repairs are necessary initiate repairs.	O&M Manager/Plant Manager	☐ ☐	
11.	If spill is reportable, make agency notifications.	Plant Manager or Designee	☐ ☐	
12.	Provide access and directions to emergency and cleanup personnel.	Plant Personnel/O&M Manager	☐ ☐	
13.	Follow-up on status of injured, if any.	Plant Manager	☐ ☐	

EARTHQUAKE

1. During Earthquake

- **IF INSIDE** stay inside.
  - Lie to the side of a solid piece of furniture, such as a desk or table.
  - Stay clear of windows, mirrors, bookshelves, and file cabinets.

- **IF OUTSIDE** go to a clear area away from WTG towers, buildings, trees, power lines and poles.
  - Get low to the ground and balance yourself.
  - If there is no open area, seek available shelter (such as a vehicle) to avoid falling objects.

2. After Earthquake

- **BE PREPARED FOR AFTERSHOCKS** which may continue for several minutes.

- **CALL 911** if any personnel require immediate medical attention.

- **EVACUATE** to your assembly point if you feel safe in doing so.
  - Do not leave the location until accounted for by the Plant Manager.

- **NOTIFICATION** Notify the Plant Manager of your status, location and circumstances (damage, fire, injuries, etc.).

- **ADMINISTER FIRST AID** to any injured persons.

- **INSPECT BUILDING/AREA** The Plant Manager or designee will inspect building/area for fires, downed power lines, and other damage, including evaluating potential for future damage caused by aftershocks.

NOTE: WTGs are equipped with over vibration sensors that will automatically shut down the WTG in the event of a severe earthquake. Accordingly, no shut down process is necessary.

NOTE: In the event of a major earthquake, be prepared to be without power, water and any emergency assistance from outside agencies for a significant length of time.

RESPONSE ACTION CHECKLIST – EARTHQUAKE

	Action	Primary Responsibility	Yes No	Initials
1.	Follow basic procedures depending on whether inside or outside during quake.	Plant Personnel	☐ ☐	
2.	After quake, call 911 if any personnel require immediate medical attention.	Plant Personnel	☐ ☐	
3.	Evacuate to assembly point if safe to do so and account for personnel on-site.	Plant Personnel/O&M Manager	☐ ☐	
4.	Notify Control Room Operator of status, location and circumstances following quake (property damage, fire risk, injuries, etc.).	Plant Personnel	☐ ☐	
5.	Administer first aid, if properly trained.	Plant Personnel/Plant Manager/O&M Manager	☐ ☐	
6.	Assess impact on plant and take appropriate action.	O & M Manager	☐ ☐	
7.	Contact Environmental, Health & Safety.	Plant Manager	☐ ☐	

SEVERE WEATHER

(ELECTRICAL STORMS, TORNADOES, FLOODING, SNOW STORMS)

Warnings of electrical storms, tornadoes, flooding and snow storms that have the potential to impact the safety of BBR Wind personnel,/contractors, and the community are typically distributed by the local government emergency organization via radio and television stations. In the event any employee becomes aware of a severe weather warning, the Plant Manager must be notified. The Plant Manager will determine if shelter in place or evacuation of plant personnel is necessary. **If conditions in the field indicate the weather poses an immediate risk, plant personnel may take appropriate measures to protect themselves (depending on particular weather emergency) and then contact the Plant Manager.**

Morning safety meetings will cover forecasted weather conditions for the day. In addition, weather forecasts will be reviewed throughout the day. Potentially significant changes in weather conditions during the day will be communicated by the Plant Manager to personnel in the field.

Below are procedures to follow if facing specific weather conditions.

Electrical Storms (i.e., Thunder/Lightning)

Thunderstorms are a common occurrence in the summer months in central Indiana. The measures to be followed depend, in part, on whether personnel are in the O&M building or out in the field.

1. O&M Building

- **NOTIFICATION** The Plant Manager will inform personnel if thunderstorms are occurring the in area.

- **REMAIN INDOORS** if outside and thunderstorms are occurring within thirty (30) miles of the O&M building go indoors.
  - Stay away from open doors and windows, metal pipes, electrical appliances and other conductive equipment/structures.
  - Avoid use of telephone, washing hands, or any contact with conducting surfaces and exposure to the outside (metal door and window frames, electrical, telephone and cable wiring, plumbing).
  - An all clear message will be issued when lightning is thirty (30) miles or more from the site.

2. Field Work, Including WTG Crews

- **ADVANCE NOTIFICATION**

- **Initial warning** to technicians using available communications devices (two-way radios, cell phones) will be issued when lightning is detected within fifty (50) miles of the work site.
- **Immediate work stand down** will be called when lightning is detected within thirty (30) miles of the work site.
    - ✓ Technicians will be ordered to immediately stop work and head to their vehicles until the storm passes.
- **Plant Manager will confirm that all employees are accounted for and down tower.**
- **Technicians will be directed to return to the O&M building or stay in the field** until the lightning passes.
- **An all clear announcement will be issued** when lightning is thirty (30) miles or more from the work site.

- **NO ADVANCE NOTIFICATION**
    - **Thunder heard** indicating thunderstorm is likely to be within ten (10) miles of the site.
    - **If inside the WTG tower,**
        - ✓ Immediately proceed to one of the safe zones within the WTG tower (platforms under the yaw section and at ground level, but not in front of electrical cabinets).
        - ✓ Sit or stand in the center of the platform without touching the WTG tower walls.
    - **If outside the WTG tower,**
        - ✓ Take shelter in the WTG tower or a vehicle immediately.
    - **Contact the Plant Manager and report circumstances.**

- **APPLY 30/30 RULE IF UNABLE TO RECEIVE INSTRUCTIONS FROM Plant Manager ON LOCATION/DIRECTION OF STORM**
    - **If you see lightning strike** count out 30 seconds. If you hear thunder within 30 seconds, storm is close enough to stop job for 30 minutes.
    - **Seek shelter** in safe zones in tower or vehicle.

- **GENERAL LIGHTNING SAFETY GUIDANCE**
    - **Be alert before and after storms:**
        - ✓ If you can see lightning and/or hear thunder, you are already potentially at risk and should seek shelter.
        - ✓ Many lightning casualties occur as the storm approaches and after the perceived threat has passed.
    - **Avoid being in or near:**
        - ✓ Communication towers, isolated trees, light poles, metal fences;
        - ✓ Open fields; and
        - ✓ Open water.
    - **If taking shelter in vehicle:**
        - ✓ Avoid touching any metal objects with inside-to-outside connection.

- **If driving:**
  - ✓ Pull off to side of road in safe manner (low area, not on a hill).
  - ✓ Turn on emergency blinkers, turn off engine, and wait out storm with hands in lap
- **If operating heavy equipment (e.g., boom trucks, cranes, bulldozers, loaders, etc.) which employ rollover system canopy:**
  - ✓ Shut down equipment, close doors, and wait out storm with hands in lap; and
  - ✓ If operating boom truck or crane, retract boom and place in the boom rack.

- **SPECIAL INSTRUCTIONS (TURBINES)**
  - **After storm has passed wait at least one hour before approaching equipment.**
    - ✓ If you hear hissing or crackling sound, this may be a sign that the WTG tower is holding a charge. **DO NOT TOUCH.**
    - ✓ If waiting out storm in vehicle, maintain a distance of at least 80 feet between the parked vehicle and a WTG.

Tornados

Tornados are a weather related danger experienced in Indiana every year. To prepare for a possible tornado, it is important to know the difference between a tornado watch and a tornado warning.

- **Tornado Watch:** Conditions are favorable for tornados to develop.
- **Tornado Warning:** Either official spotters have sighted a tornado or Doppler radar has reported a developing tornado. A tornado warning is typically issued for a small area (possible one or two counties) for less than an hour.

1. Tornado Notification/Safety

As noted at the outset, weather issues are discussed in the morning briefing and monitored throughout the day.

- **TORNADO WATCH ISSUED** in the area. Take the following steps:
  - Designate a person to monitor a radio or other information source;
  - Notify all affected site personnel of the tornado watch and ensure they are in immediate contact if an emergency arises; and
  - If conditions warrant, remove personnel from the field.

- **TORNADO WARNING ISSUED** in the area. Take the following steps:
  - **If in the O&M building or other building:**
    - ✓ Go at once to a windowless interior room, storm cellar, or basement
    - ✓ If not available, go to an inner hallway or a small inner room without windows such as a bathroom or closet;
    - ✓ Bring radio or other equipment to monitor status of tornado warning; and

- ✓ Stay away from windows, doors and outside walls.

- **If in the field:**
  - ✓ If possible, get inside a building;
  - ✓ If shelter is not available, lie in a ditch or low-lying area or crouch near a strong building; do not enter the WTG tower; and
  - ✓ Use arms to protect head and neck.
- **If in a car:**
  - ✓ Get out of the car immediately and follow the above field procedures. **DO NOT ATTEMPT TO OUTDRIVE A TORNADO.**

2. After Tornado

- **CALL 911** if any personnel require immediate medical attention.

- **NOTIFICATION** Notify the Plant Manager of your status, location and circumstances (property damage, fire, injuries, etc.).

- **TURN ON RADIO OR TELEVISION** to get latest emergency information.

- **BE AWARE OF YOUR SURROUNDINGS**
  - Watch for downed power and telephone lines, falling debris and chemical/petroleum spills.

- **ADMINISTER FIRST AID** to any injured persons if qualified to do so.

- **STAY OUT OF DAMAGED BUILDINGS/STRUCTURES**
  - The Plant Manager or designee and/or State local authorities will inspect buildings to ensure they are safe. **RETURN ONLY WHEN AUTHORITIES SAY IT IS SAFE.**

NOTE: WTGs are equipped with sensors that will automatically shut down the WTG in the event of a high winds. Accordingly, no shut down process is necessary.

High Winds

High winds may occur independent of a storm event. If weather forecasts predict high wind conditions, the following steps will be taken to protect field crews.

1. High Wind Notification and Safety

- **ADVANCE NOTIFICATION**
  - **Initial warning** to technicians in the field using available communications devices (two-way radios, cell phones) will be issued when winds are detected that could potentially pose a safety risk.
  - **Immediate work stand down** will be called by the Plant Manager when wind speeds exceed dangerous levels.

- ✓ Technicians will be ordered to immediately stop work and head to their vehicles until the conditions abate.
- **The Plant Manager will confirm that all employees are accounted for and down tower.**
- **Technicians will be directed to return to the O&M building or stay in the field** until the conditions abate.
- **An all clear message will be issued** when wind speeds fall to safe levels.

2. After High Wind Event Over

- **FOLLOW POST TORNADO PROCEDURES ABOVE**.

NOTE: WTGs are equipped with sensors that will automatically shut down the WTG in the event of a high winds. Accordingly, no shut down process is necessary.

Floods/Significant Rain Events

Components of the Project are narrowly located within two 100-year floodplains; however, the risk of flooding in these areas is unlikely to affect the Project. The primary risk of flooding is related to Project employees traveling to/from the Project. If flooding is occurring while driving:

- **DO NOT DRIVE THROUGH STANDING WATER.** Areas of standing water may be deeper than they appear. If you come across standing water, take an alternate route.
- **IF YOU ARE FORCED TO DRIVE THROUGH STANDING WATER** take the following precautions:
  - Do your best to estimate the depth of the water (watch other cars driving through and note how deep the water seems to be);
  - Drive slowly and steadily through the water;
  - Avoid driving through water that downed electrical lines have fallen in;
  - Watch for items traveling downstream; and
  - If you become trapped in rising water, immediately abandon the vehicle for higher ground. Try to open the door or roll down the wind to get out of the vehicle. If you are unable to get to safety, call 911.

Snow Storms and Ice Throw

Henry County, Indiana is not often affected by major snow and ice storms, but they can occasionally affect the area during the winter months. Henry County receives approximately 24 inches of snow annually. Under certain conditions, ice accumulation can form on WTG blades. Ice throw refers to the release of an ice fragment from a rotating WTG blade. Ice shedding occurs as air temperatures rise and the ice on rotor blades begin to thaw. As this happens, ice fragments drop off the rotors and land near the base

of the WTG tower. WTGs are equipped with an ice warning system that includes sensors that can detect ice buildup on blades, which will lead to automatic shutdown of affected WTG(s) in those circumstances. This ice detection and automatic shutdown minimizes potential ice throw events. The WTGs will remain shutdown until ice sloughs off the WTG turbine blades. Ice shed from the WTG blades that aren't in motion will likely drop off the rotors and land near the base of the WTG. Potential safety impacts related to ice shedding are unlikely because any ice shedding that could occur is likely to fall within established setbacks. The following steps will be followed to protect employees from sudden snow and ice events.

- **NOTIFICATION** The O&M building tracks weather conditions. If a major snow/ice storm is predicted, the Plant Manager will inform on-site personnel and implement procedures for early release.

- **PREPARATION** Supplies will be maintained in the O&M building to shelter employees who become stranded at the site (e.g., food, drinking water, comfort items).

FOLLOWING THE SNOW EMERGENCY, repair any damage, remove snow and ice from parking lot, access roads, walkways, and work platforms.

- **DURING AN ICE THROW OR SHEDDING EVENT,** in conditions where ice shedding or throw may occur, an initial inspection from a safe distance from the WTG should be performed before any work begins near the WTG. If ice shedding is observed in any of the Project areas, personnel should not attempt to approach the WTG tower. Personnel should remain in a safe location removed from the WTG and contact the Plant Manager immediately. The WTG should be stopped remotely and the nacelle should be yawed to the desired location. If possible, the blades should be aligned down wind and opposite the entry door. Once WTG motion has ceases, personnel should wait five minutes to ensure no additional ice shed occurs, before approaching the WTG tower. At least one crew member must be designated to monitor the conditions at the WTG where work is being performed and any neighboring WTG that is running that is shedding ice. Approach the turbine with caution and park any vehicles 60 feet away from the WTG. When parking any vehicles, attempt to reduce the need for personnel to walk through deep snow or ice. To avoid walking and handling materials through deep snow or ice, the vehicle may need to be parked closer than the normal distance from the WTG. Approach the WTG from behind the hub to decrease the risk of being hit if ice falls. No work shall be performed on top of the WTG. All WTG work in or on the towers must be delayed until the ice has shed, or there is no longer any danger of ice shedding. If personnel are within the WTG when ice shedding begins, personnel must remain in the WTG tower until ice shedding has ceased.

RESPONSE ACTION CHECKLIST – SEVERE WEATHER

	Action	Primary Responsibility	Yes No	Initials
1.	Monitor weather conditions and report to plant personnel.	Plant Manager	☐ ☐	
2.	Assess weather conditions in the field and report concerns to Plant Manager.	Plant Personnel	☐ ☐	
3.	Electrical Storms/Wind/Tornados Notify plant personnel when (1) lightning detected within 30-50 miles of work site; (2) high winds over turbine cut-out speeds detected at work site; or (3) tornado watch issued.	Plant Manager	☐ ☐	
4.	Electrical Storms/Wind/Tornados Order work stand-down when (1) lightning detected within 30 miles of work site: (2) high winds over turbine cut-out speeds detected at work site; or (3) tornado watch conditions merit removal from field.	Plant Manager	☐ ☐	
5.	Electrical Storms or Other Sudden Weather Changes Immediately proceed to safe areas if thunder heard in field and no previous warning was issued.	Plant Personnel	☐ ☐	
6.	After serious weather event, call 911 and request medical assistance, if necessary.	Plant Personnel	☐ ☐	
7.	After weather event, contact Plant Manager and advise regarding status of personnel/Project and receive instructions.	Plant Personnel	☐ ☐	
8.	Assess impact on plant and take appropriate action.	O&M Manager	☐ ☐	
9.	Contact Environmental, Health and Safety.	Plant Manager	☐ ☐	

PHYSICAL SECURITY THREAT

BOMB OR OTHER SECURITY THREAT, DISCOVERY OF SUSPICIOUS PACKAGE/DEVICE, ACTIVE SHOOTER OR OTHER VIOLENT SITUATION, SUSPICIOUS PERSON OR ACTIVITY/TRESPASSER, AND VANDALISM, EQUIPMENT TAMPERING, SABOTAGE OR TRESPASSING

1. Bomb or Other Security Threat

- **REMAIN CALM**

- **IF TELEPHONE THREAT IS RECEIVED**
  - Keep the caller on the line as long as possible to obtain the most information you can.
  - Use the Security Threat Checklist included at the end of this section as a questioning guide to organize and document the conversation.

- **IF WRITTEN THREAT IS RECEIVED**
  - Preserve and protect the document with an outer cover; limit contact with the document.
  - If threat is received electronically, do not delete it.

- **NOTIFICATION**
  - Notify the Plant Manager as soon as possible.
  - Call **911**
    - ✓ **DO NOT USE TWO-WAY RADIOS WHEN A BOMB IS SUSPECTED TO BE ON-SITE.** A two-way radio transmission can set off a bomb.
  - Notify applicable agencies related to the following NERC Standards, if necessary:
    - ✓ EOP-004-1- REL-STDs-Contacts
    - ✓ CIP-001-1- REL-STDs-Contacts

- **DETERMINE THE COURSE OF ACTION** in conjunction with local authorities.
  - **DO NOT ATTEMPT TO LOCATE ANY SUSPICIOUS DEVICE.** Leave the site investigation to the experts.

- **EVACUATE** if needed. Begin site evacuation to the designated assembly point. Pay particular attention to anyone who is listed onsite and does not report to the designated assembly point. Inform the authorities of anyone missing and their last known whereabouts.

2. Discovery of a Suspicious Package/Device

- **NOTIFICATION** If a suspicious package is identified, make the notifications identified under Item 1, Bomb or Other Security Threat.

- **EVACUATE** Immediately evacuate the area in accordance with the procedures in the evacuation section of this EAP.

- **DETERMINE THE COURSE OF ACTION** in conjunction with local authorities.
  - **DO NOT MOVE/OPEN SUSPICIOUS PACKAGES/DEVICES.**

3. Active Shooter or Other Violent Situations

- **NOTIFICATION Call 911**

- **EVACUATE**
  - Have an escape route and plan in mind.
  - Leave belongings behind.
  - Keep your hands visible.

- **HIDE OUT** If evacuation not possible:
  - Hide in an area out of the shooter's view;
  - Block entry to your hiding place and lock the doors; and
  - Silence your cell phone and/or pager.

- **TAKE ACTION** As a last resort and only when your life is in imminent danger:
  - Attempt to incapacitate the shooter; and
  - Act with physical aggression and throw items at the active shooter.

Additional information about responding to an active shooter situation can be found in the U.S. Department of Homeland Security's Active Shooter Pocket Card included at the end of this Section.

NOTE: If an intruder is making an attack on the perimeter of the Project, lock all doors, take cover and call 911.

4. Suspicious Person or Activity

- **NOTIFICATION**
  - Plant personnel who observe a suspicious person or activity must immediately report the incident to the Plant Manager.
  - The **Plant Manager**, in consultation with the **O&M Manager**, will decide whether to contact the police.

5. Vandalism, Equipment Tampering, Sabotage, Trespassers

- **NOTIFICATION** If evidence of vandalism, equipment tampering, sabotage or trespass is discovered:
  - Contact the Plant Manager; and
  - The Plant Manager, in consultation with the O&M Manager, will decide whether to contact the police.

- **FOLLOW-UP ACTIONS** The O&M Manager will:
  - Investigate the incident; and
  - Decide, with the Plant Manager, whether to implement security upgrades. See the BBR Wind Site Security Plan for details.

SECURITY THREAT – CALLER INFORMATION CHECKLIST

Try to Record the Caller's Exact Words:

_____
_____
_____
_____
_____
_____
_____
_____

Do Not Interrupt the Caller Except to Ask:

Where is the device located?

_____

When will the device explode?

_____

What kind of device is it?

_____

What does it look like?

_____

Why are you doing this?

_____

Who are you?

_____

Description of the Caller:

Male Female Adult Juvenile Approximate Age of the Caller: _____

Voice Characteristics	Speech	Language	Accent	Manner	Background Noises
__ Loud __ Soft __ High Pitch __ Deep __ Raspy __ Pleasant __ Intoxicated __ Other	__ Fast __ Slow __ Distinct __ Distorted __ Stutter __ Nasal __ Slurred __ Precise __ Other	__ Excellent __ Good __ Fair __ Poor __ Foul __ Other	__ Local __ Not Local __ Foreign __ Regional __ Race __ Pleasant __ Other	__ Calm __ Angry __ Rational __ Irrational __ Coherent __ Incoherent __ Deliberate __ Emotional __ Righteous __ Laughing __ Other	Office __ Machines Factory __ Machines __ Traffic __ Airplanes __ Trains __ Voices __ Music __ Alarms __ Quiet __ Other

RESPONSE ACTION CHECKLIST– SECURITY THREAT

	Action	Primary Responsibility	Yes No	Initials
1.	If a threatening call is received, REMAIN CALM, KEEP THE CALLER ON THE LINE, and follow the CALLER INFORMATION CHECKLIST on next page.	Anyone	☐ ☐	
2.	If threat received by mail/email or if suspicious package received, preserve item as specified in procedure.	Anyone	☐ ☐	
3.	Notify Plant Manager of bomb threat, suspicious package or breach of security.	Anyone	☐ ☐	
4.	Notify Management.	Plant Manager	☐ ☐	
5.	Call 911 – State your name, the nature of the problem, and the specific location of the problem (if known).	Plant Manager or Designee / Plant Manager	☐ ☐	
6.	Notify applicable agencies related to the following NERC Standards, if necessary: EOP-004-1 and CIP-001-1.	Plant Manager	☐ ☐	
7.	Assess security threat and take appropriate action. DO NOT send employees to search for a bomb – wait for emergency personnel to arrive.	Plant Management	☐ ☐	
8.	If evacuation is necessary, notify personnel (Do not use radios or cell phones).	Plant Manager	☐ ☐	
9.	If shutdown is necessary, shutdown the turbines.	Plant Manager	☐ ☐	
10.	Provide access to emergency personnel.	Plant Personnel	☐ ☐	
11.	Contact Environmental Health and Safety.	Plant Manager	☐ ☐	

ACTIVE SHOOTER POCKET CARD

COPING

WITH AN ACTIVE SHOOTER SITUATION

- Be aware of your environment and any possible dangers
- Take note of the two nearest exits in any facility you visit
- If you are in an office, stay there and secure the door
- Attempt to take the active shooter down as a last resort

Contact your building management or human resources department for more information and training on active shooter response in your workplace.

PROFILE

OF AN ACTIVE SHOOTER

An active shooter is an individual actively engaged in killing or attempting to kill people in a confined and populated area, typically through the use of firearms.

CHARACTERISTICS

OF AN ACTIVE SHOOTER SITUATION

- Victims are selected at random
- The event is unpredictable and evolves quickly
- Law enforcement is usually required to end an active shooter situation

CALL 911 WHEN IT IS SAFE TO DO SO

HOW TO RESPOND

WHEN AN ACTIVE SHOOTER IS IN YOUR VICINITY

1. Evacuate

- Have an escape route and plan in mind
- Leave your belongings behind
- Keep your hands visible

2. Hide Out

- Hide in an area out of the shooter's view
- Block entry to your hiding place and lock the doors
- Silence your cell phone and/or pager

3. Take Action

- As a last resort and only when your life is in imminent danger
- Attempt to incapacitate the shooter
- Act with physical aggression and throw items at the active shooter

CALL 911 WHEN IT IS SAFE TO DO SO

HOW TO RESPOND

WHEN LAW ENFORCEMENT ARRIVES

- Remain calm and follow instructions
- Put down any items in your hands (i.e., bags, jackets)
- Raise hands and spread fingers
- Keep hands visible at all times
- Avoid quick movements toward officers such as holding on to them for safety
- Avoid pointing, screaming or yelling
- Do not stop to ask officers for help or direction when evacuating

INFORMATION

YOU SHOULD PROVIDE TO LAW ENFORCEMENT OR 911 OPERATOR

- Location of the active shooter
- Number of shooters
- Physical description of shooters
- Number and type of weapons held by shooters
- Number of potential victims at the location

APPENDIX A

GENERAL RESPONSIBILITIES

Below is a general overview of the responsibilities of BBR Wind personnel for developing and implementing the Emergency Action Plan (EAP). To the extent the general responsibilities identified here differ from those described elsewhere in this plan, the more specific discussions elsewhere control.

The three major categories of personnel involved in emergency response at wind farms are plant personnel (i.e., O&M technicians), the Operation and Maintenance Manager (O&M Manager), and the Plant Manager. Their basic roles and responsibilities with respect to emergencies are set forth below.

Plant Personnel

The employees conducting day-to-day operation and maintenance activities at the BBR Wind Project are responsible for basic emergency preparation and response activities, including, but not limited to: completing training on the EAP; determining whether an incident (i.e., injury/illness, fire, etc.) requires an immediate response and dialing 911, if necessary; communicating with the Plant Manager; performing basic emergency response activities (e.g., extinguishing small fires, administering first aid); monitoring site conditions to determine whether a work stand down is necessary; and assisting with other emergency response activities as directed by the O&M Manager and/or Plant Manager. Note: All plant personnel will be provided with basic fire response and first aid training.

Operation and Maintenance Manager (O&M Manager)

The O&M Manager directly oversees the work of the plant personnel in the field and provides on-site supervision in emergency situations. In an emergency, the Plant Manager will notify the O&M Manager who will generally be expected to visit the scene of the emergency and provide assistance. In that capacity, the O&M Manager's responsibilities include directly supervising emergency response activities, communicating developments to the Plant Manager, and providing assistance to on-site personnel.

Plant Manager

The Plant Manager is responsible for the safety and security of all Project personnel, contractors, visitors, and equipment. Among other things, the Plant Manager is responsible for: reviewing and approving this EAP and scheduling and coordinating EAP training. In an emergency, the Plant Manager is responsible for incident communication within Calpine Corporation and for overseeing the emergency response.

The Plant Manager will provide any personnel and/or operational changes that may affect this plan to the appropriate EH&S Specialist so the plan can be updated, and if necessary, so personnel may be trained on those updates.

EH&S Specialist

The EH&S Specialist will prepare the final EAP and review and update it as necessary, but not less frequently than annually.

APPENDIX B

SITE MAP, INCLUDING ASSEMBLY POINTS AND LIST OF TURBINE NUMBERS/COORDINATES

Site maps identifying key Project components and assembly points will be supplied prior to beginning construction of the Project. The maps will include a list of turbines with their identification numbers and coordinates.

APPENDIX C

PROCEDURES FOR RESCUE FROM TURBINE HEIGHTS

The equipment/procedures for rescuing employees from turbine heights will be established once the turbine model has been selected and prior to beginning construction of the Project.

APPENDIX D

EMERGENCY EQUIPMENT AND LOCATIONS

Emergency Response Supplies	**Location**
First Aid Kit /CPR Kit / Burn Kit / Bloodborne Pathogen Kit	O&M building; also basic first aid kits on O&M trucks
Heart Stream AED Unit	O&M building
Oil Spill Kit	O&M building and trucks
Chemical Spill Kits (5 gallon buckets)	O&M building
Fire Extinguishers and/or Fire Suppression equipment	O&M building; each WTG location
Emergency Response Alarms & Devices	**Location**
Fire Emergency Pull Stations	O&M building
Fire Alarm Panel	Each WTG location
Smoke Detection Systems	O&M building; each WTG location
Fire Alarm Panel	Each WTG location
Emergency Rescue Equipment (for lowering injured/ill person from tower)	TBD

APPENDIX E

TRAINING

All BBR Wind employees responsible for operation and maintenance of the Project are required to read and understand this EAP.

- Training shall be administered when the employee is first hired, whenever the employee's responsibilities or designated actions under the plan change, and whenever the plan is changed. Plant personnel shall perform an Emergency Action Plan drill at least annually to provide an understanding of employees' duties in assisting in a safe and orderly evacuation, communication requirements, etc.

- Training records will be kept for the duration of employee employment plus one year. Training records will include training courses attended, trainer and dates completed.

NOTE: If any employee requires additional information about this plan or an explanation of their duties under this plan, please contact your supervisor or the EH&S Specialist.

APPENDIX F

RECORD OF REVIEWS AND REVISIONS

Date	Description	Reviewed By: