

April 13, 2021

Ms. Tanowa Troupe, Secretary  
Ohio Power Siting Board  
Docketing Division  
180 East Broad Street, 11<sup>th</sup> Floor  
Columbus, Ohio 43215-3797

**Re: Case No. 20-1678-EL-BGN** - In the Matter of the Application of Hardin Solar Energy III LLC for a Certificate of Environmental Compatibility and Public Need to Construct a Solar-Powered Electric Generation Facility in Hardin County, Ohio.

**Response to Second Data Request from Staff of the Ohio Power Siting Board**

Dear Ms. Troupe:

Attached please find Hardin Solar Energy III LLC's ("Applicant") Response to the Second Data Request from the staff of the Ohio Power Siting Board ("OPSB Staff"). The Applicant provided this response to OPSB Staff on April 13, 2021.

We are available, at your convenience, to answer any questions you may have.

Respectfully submitted,

/s/ Christine M.T. Pirik

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Ms. Tanowa Troupe  
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### CERTIFICATE OF SERVICE

The Ohio Power Siting Board's e-filing system will electronically serve notice of the filing of this document on the parties referenced in the service list of the docket card who have electronically subscribed to these cases. In addition, the undersigned certifies that a copy of the foregoing document is also being served upon the persons below this 13<sup>th</sup> day of April, 2021.

/s/ Christine M.T. Pirik

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4828-6076-4900 v2 [39579-54]

**BEFORE  
THE OHIO POWER SITING BOARD**

In the Matter of the Application of Hardin Solar	)	
Energy III LLC for a Certificate of Environmental	)	
Compatibility and Public Need to Construct a Solar-	)	Case No: 20-1678-EL-BGN
Powered Electric Generation Facility in Hardin	)	
County, Ohio.	)	

**HARDIN SOLAR ENERGY III LLC 'S  
RESPONSE TO THE SECOND DATA REQUEST  
FROM THE STAFF OF THE OHIO POWER SITING BOARD**

On February 11, 2021, as supplemented on February 19, 2021, Hardin Solar Energy III LLC (“Applicant” or “Hardin Solar III”) filed an application (“Application”) with the Ohio Power Siting Board (“OPSB”) proposing to construct a solar-powered electric generation facility in Hardin County, Ohio.

On April 2, 2021, the Staff of the OPSB (“OPSB Staff”) provided the Applicant with OPSB Staff’s Second Data Request. Now comes the Applicant providing the following response to the Second Data Request from the OPSB Staff.

**Decommissioning**

- 1. Please fully explain what financial assurance mechanism Hardin Solar Energy III LLC will employ, and when the funds will be available to perform decommissioning activities.**

**Response:** Hardin Solar Energy III LLC will employ a surety bond. As stated on page 54 of the Application Narrative the funds will be available prior to the commercial operation date. The surety bond will be active during the life of the Project and will be renewed on a year-by-year basis.

- 2. Please explain how often the decommissioning costs will be re-evaluated.**

**Response:** Following the Operations Date of the facility, decommissioning costs will be re-evaluated every five years.

3. **The decommissioning plan was developed by a professional engineer. Staff would recommend that the Applicant retain an independent, registered professional engineer, licensed to practice engineering in the state of Ohio to periodically estimate the total cost of decommissioning facility, salvage value, and appropriateness of any contingency percentage. Please indicate the Applicant's understanding and commitment to provide this to Staff and indicate when this would be provided.**

**Response:** Yes, the Applicant understands and commits to provide this to OPSB Staff. The Decommissioning Report ("Report") prepared by Stantec Consulting Services, Inc. and included as Application Exhibit O was reviewed and stamped by a professional engineer registered to practice engineering in the state of Ohio.

The Applicant understands the importance of periodic updates to the Report in order to accurately represent expected decommissioning costs. In addition to providing the initial Report upon Application submittal, the Applicant will provide the OPSB with an updated Report every five years following the Operations Date of the facility.

#### **Overhead Transmission Line**

4. **What is the nominal voltage of the overhead transmission line referenced on page 32 of the Application?**

**Response:** The reference to an overhead transmission line on page 32 of the Application is a mistake. The Facility will not include an overhead transmission line. The statement on page 32 of the Application should be amended to read: "The Applicant is an affiliate of Invenenergy Solar Project Development LLC. The solar Facility will be owned and operated by Hardin Solar Energy III LLC. This includes racking and foundations, modules, inverters, the Project substation, and all collection lines and cabling."

5. **How many support structures/poles are anticipated for the overhead transmission line referenced on page 32 of the Application?**

**Response:** The reference to an overhead transmission line on page 32 of the Application is a mistake. The Facility will not include an overhead transmission line. The statement on

page 32 of the Application should be amended to read: “The Applicant is an affiliate of Invenergy Solar Project Development LLC. The solar Facility will be owned and operated by Hardin Solar Energy III LLC. This includes racking and foundations, modules, inverters, the Project substation, and all collection lines and cabling.”

**6. Please provide the following information for the overhead transmission line:**

**Response:**

- a. Tower designs, pole structures, conductor size and number per phase, and insulator arrangement.**
- b. Base and foundation design.**
- c. Cable type and size, where underground.**
- d. Other major equipment or special structures.**

The reference to an overhead transmission line on page 32 of the Application is a mistake. The Facility will not include an overhead transmission line. The statement on page 32 of the Application should be amended to read: “The Applicant is an affiliate of Invenergy Solar Project Development LLC. The solar Facility will be owned and operated by Hardin Solar Energy III LLC. This includes racking and foundations, modules, inverters, the Project substation, and all collection lines and cabling.”

**7. Is the overhead transmission line within one hundred feet of an occupied residence or institution? If yes and the nominal voltage is over 100 kV, please provide the calculated electric and magnetic field strength levels at one meter above ground, under the conductors and at the edge of the right-of-way for (i) Winter normal conductor rating, (ii) Emergency line loading, and (iii) Normal maximum loading.**

**Response:** The reference to an overhead transmission line on page 32 of the Application is a mistake. The Facility will not include an overhead transmission line. The statement on page 32 of the Application should be amended to read: “The Applicant is an affiliate of Invenergy Solar Project Development LLC. The solar Facility will be owned and operated by Hardin Solar Energy III LLC. This includes racking and foundations, modules, inverters, the Project substation, and all collection lines and cabling.”

## **Wind Velocity**

8. **Please describe plans to mitigate any likely adverse consequences of high wind velocities in the area.**

**Response:** American Society of Civil Engineers (“ASCE”) 7-16 is the standard by which dead, live, soil, flood, earthquake, and wind loads are determined for structural design across the United States. Per ASCE 7-16 Risk Category I, design wind speeds are 100 miles per hour (“mph”) in Hardin County, Ohio. By solar industry standards, this wind velocity is covered by basic tracking system design. Adjusting the design of the solar facility would not be anticipated until 140 mph is reached. In the unlikely event such high winds do occur, the wind loading study from the tracker manufacturer will take into consideration any necessary mitigation measures.

9. **Please explain how Hardin Solar Energy III LLC will, during the detailed engineering phase, minimize any potential damage from high wind velocities by proper structural design of the project support equipment at sufficient depths based on the site-specific soil conditions to preclude any adverse influence from high wind velocities.**

**Response:** A wind loading study from the tracker manufacturer will be included in structural design packages. High wind velocities can be mitigated by increased foundation size and changes to the racking configuration, for example, a 2-in-portrait module configuration versus a 1-in portrait module configuration.

The Applicant anticipates using a NEXTracker SPT, or similar system. Manufacturer specifications for the NEXTracker system, as well as for Soltec and ATI systems, which may also be used, are provided in Application Exhibit B.

10. **Please indicate any wind loading precautions or wind equipment ratings that will be included in the final project design.**

**Response:** Tracker manufacturers provide wind loading studies for the tracking systems for inclusion in structural design packages.

The Applicant anticipates using a NEXTracker SPT or similar system. Manufacturer specifications for the NEXTracker system, as well as for Soltec and ATI systems, which may also be used, are provided in Application Exhibit B.

**11. Do the trackers under consideration have a stow mode?**

**Response:** Yes, the trackers under consideration have a stow mode.

**Aviation**

**12. Please explain what the tallest structure would be and list its height for the solar farm, overhead transmission line (referenced on p. 32), and at the project substation.**

**Response:**

- **Solar Farm:** Solar modules will be mounted on a single-axis tracking system. At the most extreme tracking position, the modules will be approximately 15 feet tall. However, the height profile will be near or below 10 feet for the majority of the day as the tracking system rotates.
- **Overhead Transmission Line:** The reference to an overhead transmission line on page 32 of the Application is a mistake. The Facility will not include an overhead transmission line. The statement on page 32 of the Application should be amended to read: “The Applicant is an affiliate of Invenergy Solar Project Development LLC. The solar Facility will be owned and operated by Hardin Solar Energy III LLC. This includes racking and foundations, modules, inverters, the Project substation, and all collection lines and cabling.”
- **Project Substation:** The tallest structures at the Project substation are the lightning protection structures, which are anticipated to have a height of 90 to 100 feet.

**Emergency Response Plan**

**13. Will the emergency action plan for the project referenced on page 55 of the Application be provided to OPSB Staff prior to the preconstruction conference?**

**Response:** Yes, the emergency response plan for the Project will be provided to OPSB Staff prior to the preconstruction conference.

14. **Please provide the current draft emergency action plan or an example emergency action plan.**

**Response:** Included as Attachment 1 to this response is the Emergency Response Plan for the Hardin Solar Energy Center projects.

#### **Water Conservation Practice**

15. **For the O&M building, would Hardin Solar Energy III LLC install modern, efficient water fixtures for all water usage, and regular maintenance to keep water fixtures in proper working order?**

**Response:** Yes, the Applicant will install modern, efficient water fixtures in the operations and maintenance (“O&M”) building and is committed to completing the prescribed water fixture maintenance.

16. **Does Hardin Solar Energy III LLC anticipate cleaning of the solar panels with water? If so, how often would these be cleaned on an annual basis?**

**Response:** The Applicant does not anticipate cleaning the solar panels with water.

17. **What is the approximate volume of water that would be required to clean the solar farm?**

**Response:** 0 gallons.

Respectfully submitted,

/s/ Christine M.T. Pirik

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*Attorneys for Hardin Solar Energy III LLC*



## **Attachment 1**

### Emergency Response Plan RES America Construction Inc.



# **Hardin Solar**

## **Emergency Response Plan**

This document ("Procedure") has been prepared by RES America Construction Inc. ("RES") in accordance with internal procedures and mandates and is Confidential Information. If this Procedure is an exhibit to a contract or agreement, then this Procedure, in the form attached to the contract, shall be subject to only those express representations or warranties regarding the exhibits to such contract, if any. Except for such representations, RES provides this Procedure "AS-IS" and does not represent, and RES expressly disclaims, that the procedures or material contained in this Procedure have been prepared pursuant to any methodology, are accurate or complete, or that they reflect the status of applicable law. Portions of this Procedure may be excerpted or redacted, and this Procedure is subject to revision or update at any time. Any party utilizing this Procedure, or any matter or information derived from it, ("Recipient") does so at his/her/its own risk and agrees to make his/her/its own investigation regarding his/her/its legal or other obligations for performance of his/her/its work. No Recipient shall have any right or claim against RES or any of its affiliated companies with respect to the Procedure.

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**Revision History**

Revision #	Date	Nature of Revision
01	08/30/19	Document first created.

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## 1.0 INTRODUCTION

Renewable Energy Systems (hereafter referred to as “RES”) is constructing a 150 MWac solar project in Alger, OH. The Coordinate System is 40° 39'36.80"N, 83° 49'59.91"W.

RES has developed this Emergency Response Plan for use during the construction phase of the project.

## 2.0 PROJECT DESCRIPTION

The works will comprise the installation of batteries, the construction of associated foundations, access tracks and electrical infrastructure and the applicable grid connection.

The elements of the site work for the RES project shall comply with all federal and provincial regulatory requirements.

## 3.0 PROCEDURE

### 3.1 Safety Related Incident/Emergency Notification Procedure

#### 3.1.1 Asses the emergency

#### 3.1.2 Notify emergency services and site safety

- a) If there is a potentially life-threatening injury or scenario, the first step is to call 911 directly.
- b) Then contact the RES Safety Supervisor and Subcontractor/Owner Safety Representative by radio or cell phone depending on available services at site.
- c) If the injury or scenario is not life threatening, contact the nearest Supervisor, as well as the RES Safety Supervisor and Subcontractor/Owner Safety Representative by radio or cell phone depending on available services at site.

#### 3.1.3 Describe the emergency scenario. Typically, the categories below can be used:

- a) Incident type (e.g. fall, crush, vehicular accident, fire, electrical shock)
- b) Potential fatality
- c) Major illness (e.g., heart attack, not breathing, unconsciousness)
- d) Major injury (e.g., broken bone, loss of limb, severe cuts/bleeding)
- e) Minor injury (e.g., twisted ankle, foreign body in eyes, minor cuts)

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- f) Bite/sting (e.g., snake, scorpion, wasp)
- g) Weather effect (e.g., heat or cold stress, lightning strike)

#### 3.1.4 Identify location

- a) Provide the location of the emergency, by referring to the nearest structure or road junction.

#### 3.1.5 Determine appropriate response

- a) Unless the injury is a life-threatening injury, the Supervisor, RES Safety Supervisor, and Subcontractor/Owner Safety Representative will determine the appropriate response, which may be:
  - (1) Arrange for a site First Aid Trained Employee to respond to the location of the injured.
  - (2) Arrange for transport of the injured to the site safety trailer for first aid administration, and further evaluation.
  - (3) Arrange for site transport to take the injured to a hospital or local medical clinic.
  - (4) Arrange for 911 services to respond directly to the injured employee.

#### 3.1.6 Coordinate

- a) Send an employee to the nearest site access point to meet the emergency responders and escort them to the location of the emergency.
- b) If offsite 911 responders are notified, the RES Safety Supervisor and Subcontractor/Owner Safety Representative will coordinate in directing the emergency services to the scene of the incident.

#### 3.1.7 Accompany

- a) The First Aid Trained Employee, Supervisor, RES Safety Supervisor, and Subcontractor/Owner Safety Representative will continue to assist with the emergency scenario.
- b) If the decision is made to transport the employee directly to an offsite hospital or medical clinic (either by site transport or by 911 emergency responders), the employees' Supervisor, the RES Safety Supervisor (or designee), and the Subcontractor/Owner Safety Representative shall:
  - (1) Accompany the injured employee to the hospital.

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- (2) Stay with the injured employee until examination (including a drug and alcohol test) is complete, and the diagnosis is completed (so that a full report including the extent of the potential injuries can be made).
- (3) Supervisors shall make known to the treating medical practitioners the employee's typical work duties, the availability of oversight for the employee's return to duty, and alternate duties available to the employee.

#### 3.1.8 Notify Employer

- a) The employee's Supervisor shall notify the employee's employer and emergency contact.
- b) RES Safety shall notify RES Corporate HSQE and the RES Project Manager within established time frames.
- c) Subcontractor/Owner Safety Representative shall notify the Owner within established time frames.

### 3.2 Designated Medical Facility

- 3.2.1 RES has designated an Urgent Care Clinic for nonemergency, occupational health related injuries and illnesses.

FACILITY NAME	ADDRESS	PHONE NUMBER
Lima Memorial Occupational Health Lima Memorial Professional	Office Building I 1220 East Elm Street, Suite 106 Lima, OH 45804	(419) 226-5180

- 3.2.2 If the clinic is not available when needed during early, late, or weekend work hours, the hospital identified below will be utilized:

FACILITY NAME	ADDRESS	PHONE NUMBER
Hardin Memorial Hospital	921 E Franklin St, Kenton, OH 43326	(419) 675-8100

- 3.2.3 RES will determine if any restrictions recommended by medical staff affects one or more of the employee's routine job functions.
- 3.2.4 The treating physician's diagnosis shall be the basis for initiating claims unless the contractor has alternative arrangements for assessment of fitness for duty.

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- 3.2.5 RES subcontractors shall log any alternate arrangements for medical treatment facilities with RES. This procedure is in the interests of both the employee (as it ensures they get the best treatment) and the employer (as they know that their employees are seen by a competent physician).

### 3.3 Damage Incident (No Injury)

#### 3.3.1 NOTIFY SUPERVISOR

- a) Contact the nearest Supervisor or RES employee, preferably the RES Safety Supervisor, by radio or cell phone depending on the services available at the site.

#### 3.3.2 DESCRIBE

- a) The nature of the damage.
- b) The location of the damage incident, by referring to the nearest structure or road junction.

#### 3.3.3 STOP WORK

- a) Stop all work in an area of damage until RES Safety Supervisor arrives to investigate incident. Equipment and vehicle operators should stay near the vehicle.
- b) Any employee involved in an equipment or vehicle accident resulting in injury or damage to equipment/property shall submit to an immediate alcohol/drug test. Testing shall be coordinated by the RES Safety Supervisor.

### 3.4 Spill Response Procedure

- 3.4.1 Immediately report any releases of hazardous materials to your Supervisor and the RES Project Manager.

- 3.4.2 The site Spill Prevention, Control, and Countermeasure (SPCC) plan shall be followed when a spill occurs on site that involves any oil products. Specific guidance for reporting the spill is contained in the SPCC plan.

#### 3.4.3 In case of Spill to **Land**:

- a) Stop all work in vicinity of spill.
- b) Identify the product - check container design, warning labels, markings, etc.



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- c) Prevent personnel from approaching the site and keep them at a distance sufficiently removed that they will not be injured by, or cause, a fire or explosion.
- d) Install measures to contain the spill if it is safe to do so utilizing a spill kit as appropriate.
  - (1) A spill kit shall include: Poly containment pail, oil absorbent pads, oil absorbent socks, heavy duty disposal bags, nitrile gloves, all-purpose absorbent (such as sawdust or kitty litter), shovels, plugs and clamps (zip ties) to control a line break.
- e) Wait for further instructions from responding personnel.

#### 3.4.4 In case of Spill to **Water**:

- a) Stop all work in vicinity of spill.
- b) Identify the product - check container design, warning labels, markings, etc.
- c) Prevent personnel from approaching the site and keep them at a distance sufficiently removed that they will not be injured by, or cause, a fire or explosion.
- d) Install measures to contain the spill if it is safe to do so.
- e) Wait for further instructions from responding personnel.

### 3.5 Site Evacuation Procedure

#### 3.5.1 Site-wide evacuations can be ordered by:

- a) The RES Project Manager.
- b) The Owner.

#### 3.5.2 Evacuation of local work areas can be ordered by the Supervisor of the work, following notification to RES Safety consistent with the reporting process above.

#### 3.5.3 Notification of a site-wide evacuation shall be by cell phone and verbal communication.

#### 3.5.4 When instructed to evacuate, all employees shall proceed to the Muster Point.

#### 3.5.5 The RES Project Manager (or designee) will arrange a head count of all personnel. This will be completed by the supervisors from each contractor.

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- 3.5.6 Employees that remain after an evacuation to shut down or maintain critical operations shall perform the necessary operations and evacuate as soon as possible.

### 3.6 Fire Prevention Procedures

#### 3.6.1 Notification

- a) All fires shall be immediately reported to the task Supervisor and the RES Safety Supervisor consistent with reporting process above.
- b) The RES Safety Supervisor shall coordinate the emergency response for the fire.

#### 3.6.2 Specific Construction Site Fire Hazards

- a) Possible fire hazards and threats include grass fires due to lightning, failure of overhead lines, and construction-related accidents such as sparks from cutting operations and vehicular operation over dry vegetated areas.

#### 3.6.3 Minimizing Fire Risk during Construction

- a) Personnel Training - All site personnel shall be made aware of the dangers associated with fires and how to respond in case of a fire.
- b) No open fires - No exceptions.
- c) Hot Work - shall be conducted following issuance of a Hot Work Permit, conducted in accordance with approved procedures, and within de-vegetated areas only.
- d) Storage and use of flammable and combustible materials will be in accordance with [RASWP 021 - Fire Prevention](#).
- e) Fire-breaks shall be a design feature:
  - (1) Each road will be considered a site fire break.

#### 3.6.4 Suppression of Fires during Construction

- a) Employees should attempt to extinguish a fire if possible, but never at risk to their personal safety or the safety of fellow employees.
- b) Portable Fire Extinguishers - Each site vehicle shall be equipped with an ABC rated fire extinguisher.
- c) Each piece of construction equipment (yellow iron or similar) shall be equipped with, or have available during operation, an ABC rated fire extinguisher, if it doesn't affect the safe operation of the equipment.

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- d) Any fire not immediately contained and/or suppressed shall require notification to the local fire department for support.
- e) Water availability - **[TBD]**

### 3.7 Fire Prevention and Response Equipment Maintenance and Inspections

- 3.7.1 All installed fire prevention or fire response equipment shall receive monthly inspections (with records) and regular maintenance in accordance with provincial requirements.
- 3.7.2 All RES personnel and subcontractors carrying fire extinguishers in their vehicles are responsible for conducting a monthly inspection of the extinguishers to ensure the equipment is in good working order and ready for use in a fire emergency.

## 4.0 SAFETY DATA SHEETS

### 4.1 Location and Posting

- 4.1.1 Each subcontractor shall maintain a listing of all materials that they are using which may be flammable or hazardous to health. Therefore, refer to each subcontractor for the most comprehensive and up-to-date listing together with the Safety Data Sheets (SDSs) for each chemical.
- 4.1.2 The location of the SDSs maintained on site shall be posted on the project information board.

## 5.0 SPECIFIC PROCEDURES FOR KNOWN SITE HAZARDS

### 5.1 Snake Bite Procedures

- 5.1.1 What to do if bitten by a venomous snake.
  - a) Allow the bite to bleed freely for 15-30 seconds.
  - b) Cleanse and rapidly disinfect the area with an iodine solution (if not allergic to iodine, fish, or shellfish), and remove clothing and jewelry from the body extremity where the bite occurred (pant legs, shirt sleeves, rings, etc.)
  - c) If bite is on the hand, finger, foot, or toe - wrap the leg/arm rapidly with 3" to 6" of ACE or crepe bandage past the knee or elbow joint immobilizing it. Over-wrap bite marks. If possible, apply hard and direct pressure over bite using a 4" x 4" gauze pad folded in half twice to 1" x 1". Tape in place with adhesive tape. Soak gauze pad in Betadine™ solution if available and victim is not allergic to iodine, fish or shellfish.

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- d) Strap gauze pad tightly in place with adhesive tape.
- e) Over-wrap dressing above, over, and below bite area with ACE or crepe bandage, but not too tight. Wrap ACE bandage as tight as one would for a sprain. Not too tight. Check for pulse above and below elastic wrap; if absent, the wrap is too tight. Unpin and loosen. If pulses are strong (normal), it may be too loose.
- f) Immobilize bitten extremity use splinting if available.
- g) If possible, try and keep bitten extremity at heart level or in a gravity-neutral position. Raising it above heart level can cause venom to travel into the body; below heart level can increase swelling.
- h) Evacuate to nearest hospital or medical facility as soon as possible.
- i) Try to identify the snake (ONLY if safe to do so). This is the least important thing you should do. Visual identification/description usually suffices, especially in the U.S. and in regions where the local fauna is known. Local symptoms will alert doctors to whether or not the bite is venomous.
- j) Bites to face, torso, or buttocks are more of a problem. ACE or crepe bandaging cannot in these areas. A pressure dressing made of a gauze pad may help to contain venom.

#### 5.1.2 What to Communicate at the Hospital.

- a) Ask the staff to immediately contact their designated Poison Control Center.
- b) Ask the hospital staff to use physician consultants available through the nationwide Poison Control Network if necessary.

#### 5.1.3 What **NOT** to do if bitten by a venomous snake.

- a) Contrary to advice given elsewhere, do not permit removal of pressure dressings or ACE bandages until you are at the treatment facility and the physician is ready and able to administer anti-venom. When the dressings are released, the venom will spread causing the usual expected problems associated with a venomous snakebite.
- b) Do **not** eat or drink anything.
- c) Do **not** engage in strenuous physical activity.
- d) Do **not** apply oral/mouth suction to the bite.
- e) Do **not** cut into or incise bite marks with a blade.
- f) Do **not** drink any alcohol or use any medication.
- g) Do **not** apply hot or cold packs.

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- h) Do **not** apply a narrow, constrictive tourniquet such as a belt, necktie, or cord.
- i) Do **not** use a stun gun or electric shock of any kind.
- j) Do **not** remove dressings/wraps until arrival at hospital and anti-venom is readily available.

## 5.2 Tornadoes

### 5.2.1 Tornado Categories

- a) (F0) Gale Tornado (40-75 mph) - Light damage: Some damage to chimneys, breaks branches off trees, pushes over shallow-rooted trees and damages sign boards.
- b) (F1) Moderate Tornado (73-112 mph) - Moderate damage: The lower limit (73 mph) is the beginning of hurricane wind speed, peels surfaces of roofs, mobile homes pushed off foundations or overturned and moving autos pushed off roads.
- c) (F2) Significant Tornado (112-157) - Considerable Damage: Roofs torn off the frames of houses, mobile homes demolished, boxcars pushed over, large trees snapped, and heavy cars lifted off ground and thrown.
- d) (F3) Severe Tornado (158-206 mph) - Severe Damage: Roofs and some walls torn off well-constructed houses, trains overturned, most trees in forest uprooted, and heavy cars lifted off ground and thrown.
- e) (F4) Devastating Tornado (207-260) mph - Incredible damage: Well-constructed houses levelled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
- f) (F5) Incredible Tornado (261-318) mph - Strong frame houses lifted off foundations and carried considerable distances to disintegrate; automobile sized missiles fly through the air in excess of 100 meters; trees debarked; steel re-enforced concrete structures badly damaged.
- g) (F6+) Inconceivable Tornado (319-379 mph) - These winds are very unlikely. The small area of damage they might produce would probably not be recognizable along with the mess produced by F4 and F5 wind that would surround the F6 winds. Missiles, such as cars and refrigerators would do serious secondary damage that could not be directly identified as F6 damage. If this level is ever achieved, evidence for it might only be found in some manner of ground swirl pattern, for it may never be identifiable through engineering studies.

### 5.2.2 Phase 1 - Preparation

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- a) When the National Weather Service issues a Tornado watch (48 hours prior to forecasted landfall), RES and subcontractors shall begin preparations for a shut-down of operations.
- b) RES Project Manager and Safety Supervisor will notify RES and subcontractor personnel and actively monitor storm progress.
- c) Upon notification by RES Project Manager, all Subcontractors will begin a general clean-up effort to eliminate, remove, or secure any loose objects around site including tools, equipment, materials, trash cans, etc.
- d) RES and subcontractor administrative support will prepare documents, for proper storage or removal, and secure paperwork and office equipment.

#### 5.2.3 Phase 2 - Monitoring

- a) When the National Weather Service issues a tornado watch (48 hours prior to forecasted landfall), RES Project Manager and Safety Supervisor will continue to monitor the storm activities and will advise site personnel of the appropriate actions to take in the event Phase 3 is implemented.

#### 5.2.4 Phase 3 - Evacuation

- a) When the National Weather Service issues a Tornado Warning (24-36 hours prior to the forecasted landfall), RES Project Manager and Safety Supervisor will ensure that all preparations for the storm and shut-down of operations have been completed.
- b) The site will be immediately evacuated to the nearest Certified Tornado Shelter.

#### 5.2.5 Phase 4 - Returning to Work

- a) The Project Manager will begin the implementation of Phase 4 within 12 hours after the Tornado has passes and/or upon confirmed safe conditions of project site.
- b) The Project Manager will notify each designated company contact.
- c) Each subcontractor's designated company contact will alert their company's personnel that they shall return to work.

#### 5.2.6 Damage reports and priority repairs will begin immediately, and crews will be assigned accordingly.

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## 6.0 EMERGENCY SERVICES

### 6.1 In case of Emergency (Fire/Police/Medical)

911

FACILITY NAME	ADDRESS	PHONE NUMBER
Hardin Memorial Hospital	921 E Franklin St, Kenton, OH 43326	(419) 675-8100
Hardin County Sheriff	1025 S Main St, Kenton, OH 43326	(419) 673-1268
Alger Fire Department	102 Lee St, Alger, OH 45812	(419) 757-2222

### 6.2 Emergency Response Drill

- 6.2.1 At least one emergency response drill shall be completed within ninety (90) days of mobilizing to site that engages the local emergency service providers in the community. Lessons learned shall be communicated across the project at the Plan of the Day (POD) Meetings, All Hands Safety Meetings, and Staff Meetings. Needed improvement areas shall be incorporated into the next revision of the plan.

## 7.0 APPENDICES

Appendix 1 - Site Contact Information

Appendix 2 - FA/CPR/AED Trained Employees

Appendix 3 - Concise Emergency Response Plan

Appendix 4 - Radio Communications for Severe Weather - Lightning

Appendix 5 - Site Map

Appendix 6 - Occupational Clinic Map and Directions

Appendix 7 - Urgent Care Map and Directions

Appendix 8 - Hospital Map and Directions

Appendix 9 - Utility Strike Emergency Response

Appendix 10 - Active Shooter Response

### Appendix 1 - Site Contact Information

COMPANY	TITLE	NAME	PHONE NUMBER
RES	Project Manager	Kola Ogundeyin	(404) 790-6822
RES	Assistant PM	Trevor Williams	(512) 922-1387
RES	Project Superintendent	Terry Ashline	(701) 840-8234
RES	Project Engineer	Luther Martin	(409) 893-5744
RES	Safety Supervisor	Sharlon Wright	(806) 893-2966
RES	HSQE Manager	Steve Sloat	(203) 417-9431
RES	Quality Supervisor	Danny Anderson	(423) 863-2158
RES	Civil Superintendent	Chris Edwards	(417) 483-1290
RES	Civil FE	David Waldron	(320) 761-0431
RES	Electrical Superintendent	Matthew McAlpin	(320) 423-6581
RES	Electrical FE	Jacob Spenner	(515) 782-1489
RES	Mechanical Superintendent	Todd Fodor	(951) 852-1112
RES	Mechanical FE	TBD	TBD
RES	Mechanical GF	Johnny Rutherford	(408) 710-2374
RES	Site Mechanic	Justin Wallace	(870) 341-3258
RES T&D	Project Manager	Mike Repholz	(518) 577-8201
RES T&D	Civil Superintendent	Sean Charrette	(607) 761-5456
RES	Site Admin	Diana Bame	(419) 604-0067



**Appendix 2 - FA/CPR/AED Trained Employees**

<b>COMPANY</b>	<b>NAME</b>	<b>PHONE NUMBER</b>
RES	Sharlon Wright	806-893-2966
RES	Jacob Spenner	515-782-1489
RES	Johnny Rutherford	408-710-2374
RES	Jake Ashline	701-840-9046

## **Appendix 3 - Concise Emergency Response Plan**

### **Hardin Solar**

1. Know your location on site.
2. Be prepared to communicate the road, intersection, compound, structure, etc.
3. If the emergency is immediately dangerous to life or health, call 911.
4. If not, notify your immediate supervisor.
5. Then, notify a RES Supervisor.
6. If a RES Supervisor is not available, notify the RES Project Office via phone or radio.

#### **Radio Communications:**

1. Ensure you are on the “talk-around” or “emergency” frequency.
2. Announce that you have an emergency and request all other communications to stop.
3. Request all activities on site to stop during the emergency response.
4. Call out for a RES Supervisor or other.
5. When a RES Supervisor (or other) responds, communicate slowly and clearly.
6. Communicate the type of emergency: Injury, Fire, Spill, etc.
7. Communicate the location.
8. If you have already called 911, communicate that to the RES Supervisor.

#### **Injury/Illness:**

1. Follow the prescribed steps described above ensuring you communicate your location and a brief description of the injury/illness.
2. If the emergency is immediately dangerous to life or health, call 911.
3. If you determine the injured or ill person needs FA/CPR/AED, request it.
4. Make sure the injured or ill person is being monitored. Never move an injured or ill person unless needed to prevent further injury.
5. Secure the immediate job site area if possible, shutting down all equipment and work. Request assistance if needed.
6. RES will dispatch personnel to assist with FA/CPR/AED.
7. RES will dispatch personnel to rendezvous with emergency services responding to the 911 call.
8. If the injured or ill person is a snake bite victim, try to identify the type of snake involved. If the snake has been killed, carefully secure the snake in a manner for transport to the hospital for identification by medical personnel.
9. The supervisor of the injured or ill employee should accompany the employee to the hospital. A RES Supervisor will also accompany employees transported to the hospital.

#### **Fire:**

1. Follow the prescribed steps described above ensuring you communicate your location and a brief description of the injury/illness.
2. If the emergency is immediately dangerous to life or health, call 911.
3. Do not put yourself at risk.
4. Clear the area of unnecessary personnel and, if possible, vehicles and flammables. If you are trained in fire safety, and the fire is small, attempt to put the fire out with an extinguisher.
5. RES will dispatch personnel to rendezvous with emergency services responding to the 911 call.
6. Await the arrival of the fire department.

**Severe Weather:**

1. If a severe weather emergency occurs at your work location and you have not received notification verbally, via cell phone, or on the radio system, follow the prescribed steps described above for notifying your supervisor and/or a RES Supervisor.
2. If you receive notification of a severe weather event verbally, via cell phone, or on the radio system; follow the instructions.
3. For lightning, take cover in mobile equipment, a vehicle, or structure (O&M building, office trailer, etc.). Do not use the equipment/vehicle's electronic devices while taking cover during a storm.

**Spills to Land or Water:**

1. Follow the prescribed steps described above for notifying your supervisor and/or a RES Supervisor.
2. Communicate the location and a brief description of the spill emergency.
3. Stop all operations.
4. Identify the product.
5. Prevent personnel from approaching the site.
6. Install measures to contain the spill if it is safe to do so.
7. Wait for further instructions from responding personnel.

## Appendix 4 - Radio Communications for Severe Weather - Lightning

### Hardin Solar

Items in red are information only and not to be read over radio.

#### **\*\*50 Mile Weather Advisory\*\***

Attention All Site:

We are currently under a condition **YELLOW**. Lightning has been reported within 50 miles of the project. Again we are currently under a condition **YELLOW** for lightning within 50 miles. Repeat 3 times over a 2 or 3 minute period when lightening is within 50 miles of site. Work will continue during an advisory. Preparations should be made to stop work if storm continues towards site.

#### **\*\*30 Mile Weather Caution\*\***

Attention All Site:

We are currently under a condition **ORANGE** for lightning within 30 miles of the site. Crews should prepare to stop works should lighting strike within 10 miles of the project. Again we are currently under a condition **ORANGE** for lightning with 30 miles. Repeat 3 times over a 2 or 3 minute period when lightning is within 30 miles of site. All Main Crane and Tower work is to cease immediately.

#### **\*\*10 Mile Weather Warning or if Thunder is Heard\*\***

Attention All Site:

We are currently under a condition **RED** for lightning within 10 miles of the site. All site personnel must IMMEDIATELY cease their operations and seek shelter in any rubber tired vehicle/piece of equipment or the nearest safe building (e.g., site office trailers). Again we are under a condition **RED** for lightning within 10 miles. Repeat 3 times over a 2 or 3 minute period when lightning is within 10 miles of site or if Thunder is heard. ALL site operations are to cease immediately and personnel should seek shelter.

#### **\*\*Lightning All Clear\*\***

Attention All Site:

We are currently under a condition (**ORANGE** or **YELLOW** or **GREEN**). No lightning has been observed within (10 or 30 or 50) miles of the site in the last 30 minutes.

10 Mile All Clear, but lightning still within 30 Miles. We are currently under a Condition **ORANGE**. Ground operation crews may return to work. Again, we are currently under condition **ORANGE**.

30 Mile All Clear, but lightning still within 50 Miles. We are currently under a condition **YELLOW**. Maintain awareness because lightning is still within 50 Miles of the site.

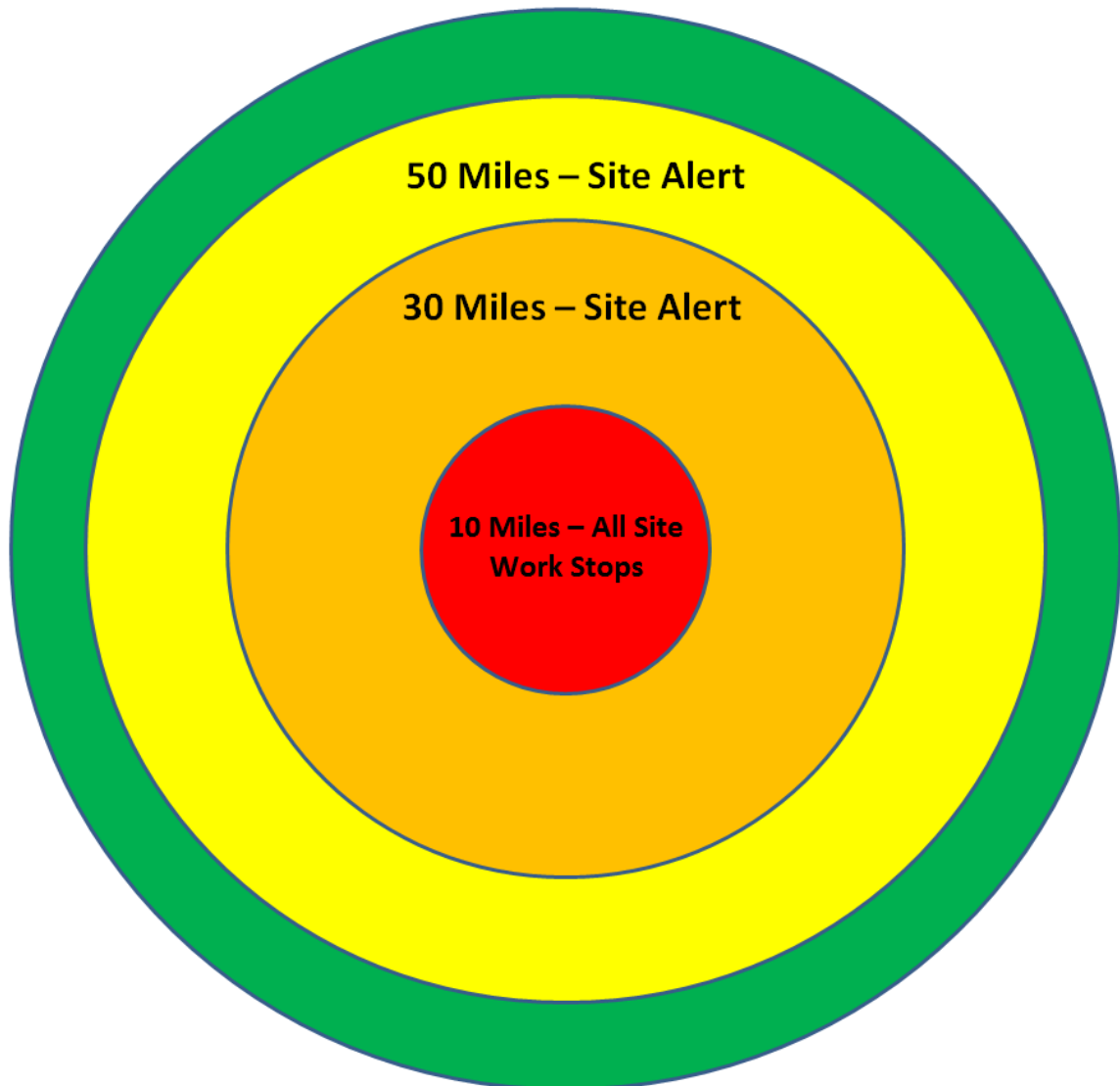
50 Mile All Clear, - We are currently under a condition **GREEN**. There has been no lightning within 50 miles in the last 30 minutes.

Repeat the specific all clear announcement (10, 30, 50 mile) 3 times over a 2 or 3 minute period once the RES Project Office gets confirmation of all clear. An all clear will be announced once no strikes have been reported in the 10, 30, and 50 mile radius for 30 minutes.

\*\*\*Only the Project Manager has the authority to extend the time period before declaring an "ALL CLEAR" notice.

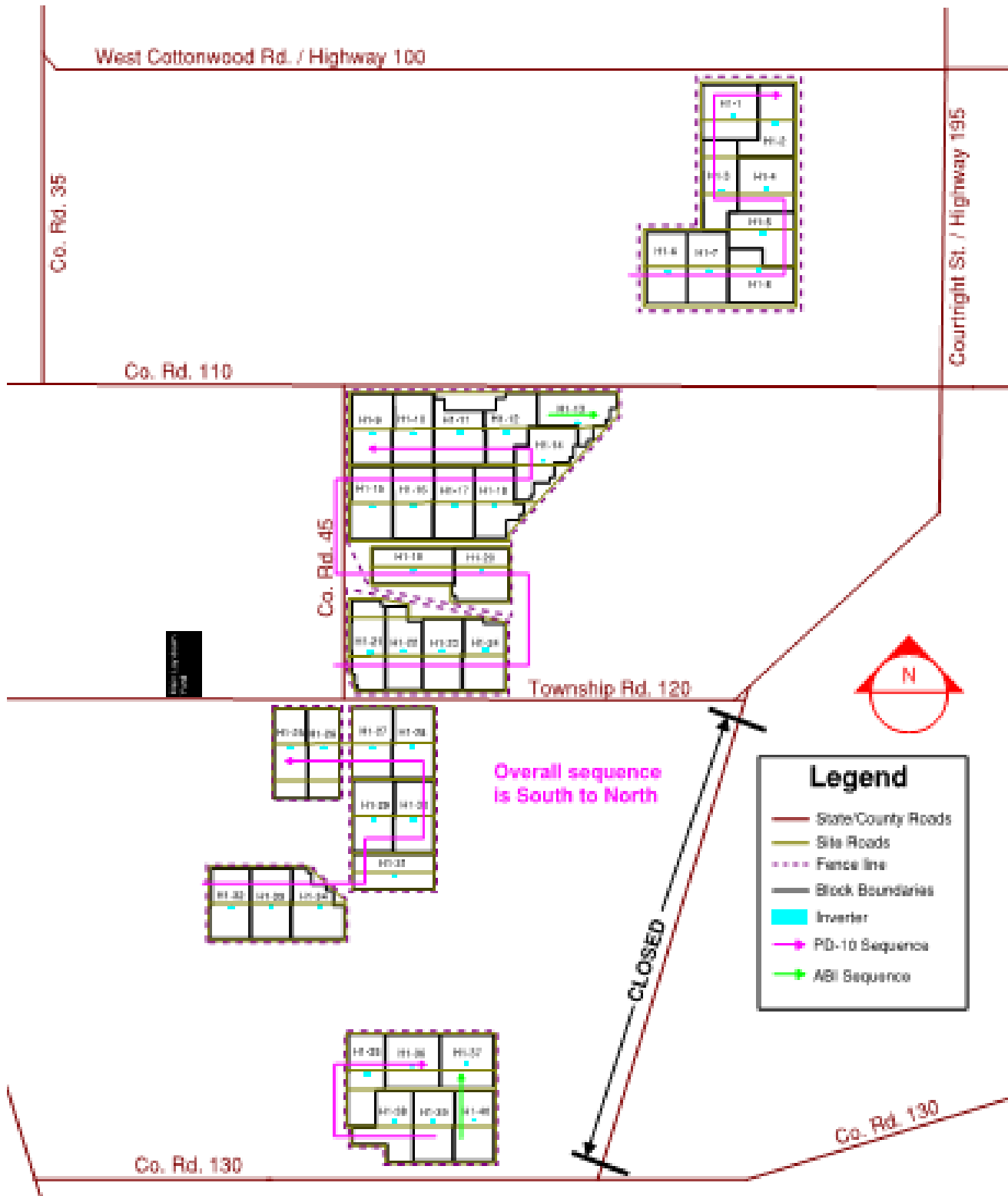
## Lightning Alert Pictogram

Hardin Solar



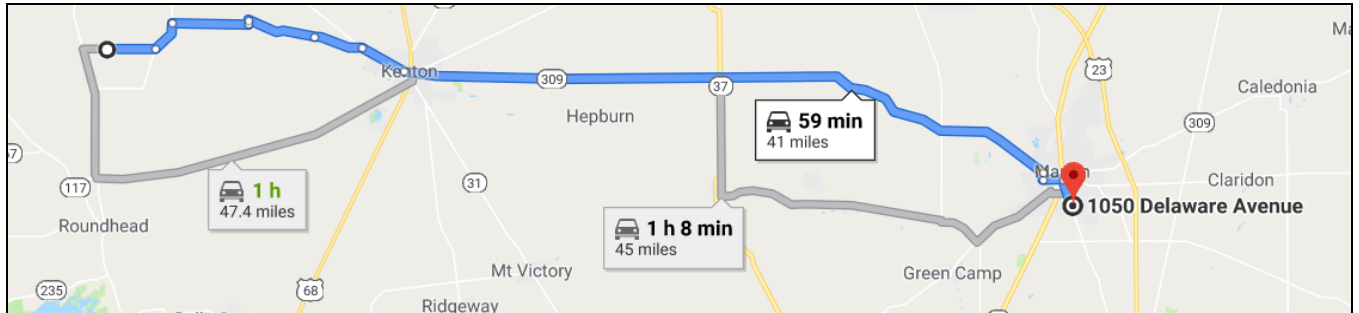
## Appendix 5 - Site Map

### Hardin Solar



## Appendix 6 - Occupational Clinic Map and Directions

**Lima Memorial Occupational Health  
Lima Memorial Professional Office Building I  
1220 East Elm Street, Suite 106  
Lima, OH 45804  
(419) 226-5180**

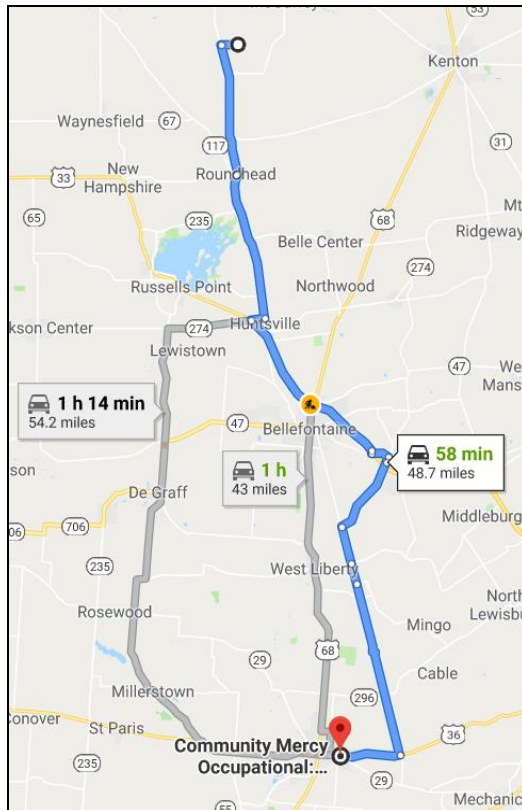


### Directions

1. Head west on Township Rd 120 toward OH-235 N - 0.9 mi
2. Turn right onto OH-235 N - 2.1 mi
3. Turn left onto Township Rd 100 - 1.2 mi
4. Turn right onto County Line Rd/S Hardin Rd - 3.0 mi
5. Turn left onto OH-309 W - 10.7 mi
6. Turn right onto S Dana Ave - 0.3 mi
7. Turn left onto E Elm St 0.2 mi

## Appendix 7 - Alternate Occupational Clinic Map and Directions

**Community Mercy Occupational Health & Medicine**  
**904 Scioto St, Urbana, OH 43078**  
**(937) 484-6142**



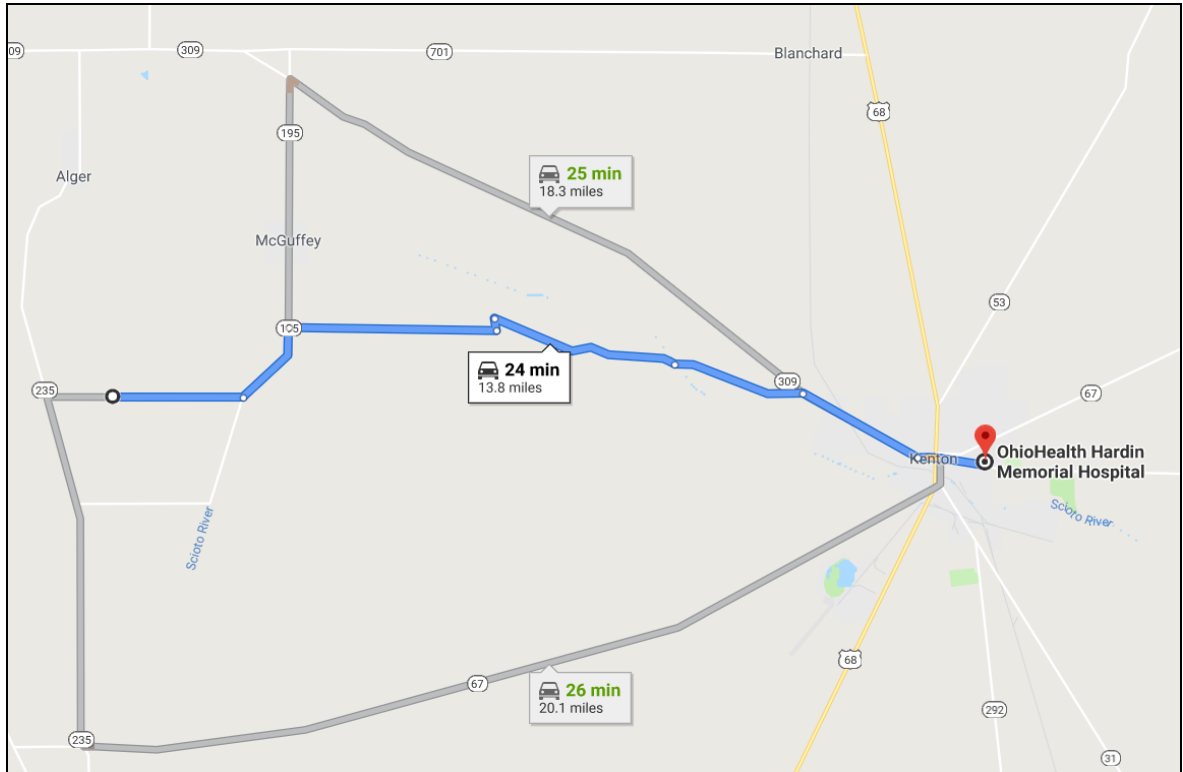
### Directions

1. Head west on Township Rd 120 toward OH-235 N - 0.9 mi
2. Turn left onto OH-235 S - 7.1 mi
3. Turn right to stay on OH-235 S - 482 ft
4. Turn left onto OH-117 E/OH-235 S - 8.0 mi
5. Turn right onto OH-274 W - 0.7 mi
6. Sharp left onto US-33 E - 9.9 mi
7. Take the County Rd 10 exit toward Zanesfield/Bellefontaine - 0.2 mi
8. Turn left onto Co Hwy 10/Co Rd 10 - 1.0 mi
9. Turn right onto Main St - 0.3 mi
10. Continue onto County Rd 5 S - 4.4 mi
11. Turn left onto County Rd 1 - 2.1 mi
12. Continue onto OH-245 E - 1.2 mi
13. Continue straight onto N Ludlow Rd - 9.6 mi
14. Turn right onto US-36 W/E US Hwy 36 - 3.3 mi
15. Turn right, Destination will be on the left.



## Appendix 8 - Hospital Map and Directions

Hardin Memorial Hospital  
921 E Franklin St,  
Kenton, OH 43326  
(419) 675-8100



### Directions

1. Head east on Township Rd 120 toward Co Rd 45 - 1.9 mi
2. Turn left onto OH-195 N - 1.3 mi
3. Turn right onto Co Rd 110 - 3.0 mi
4. Turn left onto Co Rd 95 - 0.2 mi
5. Turn right onto Co Rd 106 - 2.7 mi
6. Keep right to stay on Co Rd 106 1.9 mi
7. Turn right onto OH-309 E - 1.9 mi
8. Slight left onto W Franklin St 0.9 mi
9. Turn left onto Memorial Ave - 144 ft
10. Turn right - 92 ft
11. Turn left - 141 ft, destination will be on the right

## Appendix 9 - Utility Strike Emergency Response

### Hardin Solar

#### General Requirements

1. If any services are damaged, the work shall immediately stop and inform RES, who shall contact the utility owner to advise them of the situation.
2. If there is a spill associated with the strike, follow Spill Response procedures outlined in the Spill Prevention, Control, and Countermeasure (SPCC) Plan.
3. In the event of a potential gas, natural gas, petroleum or propane utility strike:
  - a) Check for the following signs of a leak:
    - Hissing, roaring, or explosive sound
    - Flames appearing from the ground or water.
    - Vapor cloud/fog/mist.
    - Dirt/debris/water blowing out of the ground.
    - Liquids bubbling up from the ground or bubbling in water.
    - Distinctive, unusually strong odor of rotten eggs, skunk, or Petroleum.
    - Discolored/dead vegetation or snow above a pipeline right-of way.
    - Oil slick or sheen on flowing/standing water.
  - b) If there is a leak, stop work and evacuate the area to an upwind location and away from vapor clouds and flames.
  - c) Abandon equipment used in/near area.
  - d) Call RES Safety/Management.
  - e) RES office to notify 911 if applicable.
  - f) Don't do anything that could create a spark.
  - g) Keep employees, vehicles, and members of the public 1000' away from the area. Note: RES Safety, EMS, Security and Supervision to perform this function.
  - h) Barricade the area if necessary.
  - i) Stay upwind of blowing gas.
  - j) Do not try to extinguish a gas burning fire prior to shutting off supply unless there is a threat to life.
  - k) Never attempt to operate pipeline valves, as this could prolong/worsen incident or cause another pipeline leak.
  - l) Start 1000' out from the strike location, and while walking towards the strike, assess the air quality using a 4-gas meter.
  - m) While walking towards the strike location, if the 4-gas meter alarms, evacuate the area. Do not return to the strike location or authorize employees to access the strike location until the utility owner verifies that it is safe to enter the area.
  - n) If the 4-gas meter does not alarm, continue to walk towards the strike location assessing the air quality and document equipment readings on the JHA (Job Hazard Analysis).
4. In the event of an electrical utility strike:
  - a) Stop work immediately and warn all persons in the vicinity, including emergency and rescue personnel, that the ground and objects near the excavator, and equipment around the point of contact, may be energized.

- b) Contact the electrical utility operator and fire department immediately if a radio or phone is at hand. Otherwise, the operator must remain still and signal for help to relay a call for utility and emergency assistance.
- c) The operator must remain on the excavator or equipment.
- d) Personnel on the ground near the equipment involved or point of contact should remain still with both feet together. Don't touch the excavator, nearby equipment, structures or material.
- e) Evacuate the excavator and the area near the point of contact only after an official of the electric utility deems it is safe to do.
- f) If immediate evacuation is required due to threat of serious injury from fire, explosion or other hazard, jump clear of the equipment and land with both feet together. Move a safe distance away (at least 25 to 30 feet) using short hops or shuffling steps to keep both feet together.
- g) Do not try to disentangle cables from excavator buckets.
- h) Do not resume work until an electric utility official confirms the site is safe.

5. In the event of a telecommunications strike:

- a) Stop excavation and secure the area.
- b) Notify facility owner of the potential damage to copper/fiber cable.
- c) Do not examine or stare into broken/severed/ disconnected fibers/fiber cable.
- d) Move a safe distance away from a damaged fiber system (always assume that a laser signal is present).
- e) Place barricades around the fiber damage location to protect others from exposure.
- f) Do not view broken fiber cables with any optical instruments.

## Appendix 10 - Active Shooter Response

Hardin Solar

### General Requirements

1. In the event of an active shooter, affected employees shall immediately stop working.
2. Call 911 - (from an area of safety or concealment) and provide as much of the following information as possible:
  - Description of suspect(s) and possible location.
  - Number and the types of weapons.
  - Suspect's direction of travel.
  - Location and condition of any victims.
3. Evacuate - If there is an accessible escape path, attempt to evacuate the premises. Be sure to:
  - Have an escape route and plan in mind.
  - Evacuate regardless of whether others agree to follow.
  - Leave your belongings behind.
  - Help others escape, if possible;
  - Prevent individuals from entering the active shooter area;
  - Keep your hands visible;
  - Follow the instructions of any police officers;
  - DO NOT attempt to move wounded people;
  - Call 911 when you are safe.
4. Hide - If evacuation is not possible. Your hiding place should:
  - Be out of the shooter's view.
  - Provide protection from gunshots, such as behind a heavy desk.
  - If you trap you or restrict your options for movement (broom closet).
  - Lock the door.
  - Block the door.
  - Silence cell phones.
  - Remain Quiet.
5. Fight - If no other options exist, and there is imminent/immediate danger to yourself, take direct action against the shooter:
  - Remain calm.
  - If you have not already done so, call 911 and leave the line open.
  - Commit to your actions.
  - Act as aggressively as possible against the shooter.
  - Move with speed and force. Improvise weapons if time permits.
  - Continue to fight until the shooter is physically incapacitated.
6. Evacuate - Priority is always to evacuate. Once shooter is incapacitated leave the area immediately, taking as many people as possible with you.
  - Keep hands visible.
  - Do not group together once outside the building, in the event of a second shooter.
  - Follow all commands of law enforcement officials.

7. Regroup - When possible and safe to do so, account for all personnel and report this information through one person to law enforcement.
8. Report - As soon as possible and practical, report the incident.

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**4/13/2021 2:22:01 PM**

**in**

**Case No(s). 20-1678-EL-BGN**

Summary: Response to Second Data Request from Staff of the Ohio Power Siting Board electronically filed by Christine M.T. Pirik on behalf of HARDIN SOLAR ENERGY III LLC