Emergency Management Plan

Gravel Pit Solar

East Windsor,

Connecticut

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Document Revision History			
REV #	Section Revised	Revision Date	Author

1.0 INTRODUCTION

This Emergency Management Plan has been prepared exclusively to accommodate all phases of the operation and maintenance activities associated with the Solar Power Plant listed below:

Job-site Address: 42 Plantation Road

East Windsor, Connecticut 06016

Hartford County

Coordinates to the north gate
Latitude: 41.891985

Longitude: -72.540486

Coordinates to the south gate
Latitude: 41.875749

Longitude: -72.563597

Office or Mailing Address

Contact Gravel Pit Solar, Inc.
Street 1166 Avenue of the Americas, 9th Floor
City, State: New York, 10036

1.1 Relevant Safety or Environmental Documents for Review

The following codes, standards & policy reference documents are available for review upon request from the Gravel Pit Solar Division Office.

1. Name of Document: ANSI-NETA MTS 2015 - Electrical Power Distribution Equipment and Systems

Location: Gravel Pit Solar Division Office – available upon request

2. Name of Document: ANSI/NFPA 70E, Applicable NEC, OSHA 29CFR 1901 and 1910.269 Electric Power Generation, Transmission, & Distribution

Location: Gravel Pit Solar Division Office – available upon request

3. Name of Document: Injury, Illness and Prevention Program (IIPP) Location: Gravel Pit Solar Division Office – available upon request

2.0 PURPOSE OF THIS DOCUMENT

2.1 The Emergency Management Plan (EMP) serves four "Key" functions:

- The EMP identifies key personnel in the Gravel Pit Solar Project organization.
- The EMP is the primary health and safety resource tailored specifically for the operations and maintenance project activities and sets forth the minimum work practice standards for all work including any Contractors, Subcontractors, vendors and visitors who may be on the Project Site during major solar plant repairs, solar plant system testing or Gravel Pit Solar tasks including, but-not-limited-to, requirements for: incident reporting, accident investigation and medical management, public safety, Contractor safety, transportation, waste management, equipment management, site security, emergency response and site evacuation, environmental conditions, construction safety, agency relations, sanitation, decontamination, hazard awareness and training.
- The EMP sets forth the minimum environmental, health and safety standards that contractors and subcontractors will incorporate into their company or individual H&SP's or JHA's.
- The EMP highlights the minimum environmental, health and safety standards Gravel Pit Solar Contractors will incorporate into their individual JHA's and day-to- day Gravel Pit Solar activities. This EMP is in addition to the Gravel Pit Solar IIPP documents and all Safety and Risk Management policies set forth by the company. It is important to note that ALL Gravel Pit Solar Field Technicians are OSHA 30 certified. The Gravel Pit Solar staff have extensive supplementary task specific safety training in addition to the to the contractor training that is required before they are assigned to a Gravel Pit Solar Project.

2.2 Additional Information (reserved)

3.0 PROJECT MANAGEMENT AND STAFF ORGANIZATION

3.1(a) Table 1

Solar Site Key Personnel

Primary Contact:

Secondary Contact - Gravel Pit Solar Senior Field Technician	
Name:	Office:
	Mobile:
	Fax:
Tertiary Contact - Field Technician	
Name:	Office:
	Mobile:
	Fax:
Gravel Pit Solar Field Operations Manager	
Name:	Office:
	Mobile:
	Fax:

3.1(b) Corporate Contact Information

Emergency Management Plan and Division/Regional Safety Manager	
Primary:	Mobile:
Secondary:	Mobile:
Location:	
Gravel Pit Solar Inc. - Division Manager	
Name:	Office:
Location:	Mobile:
	Fax:
Gravel Pit Solar Inc. – Additional contacts	
Labor Relations:	
Employee Assistance Program:	
O&M Contractor Safety Hotline:	
Workers' Comp – Contractor Employees:	
Gallagher Bassett Services, Inc. (Claims Administrator):	

Hazardous Material Handling:	
Gravel Pit Solar Compliance:	

3.2 Table 2
Owner/Developer Key Personnel

Project Owner Name
NAME: **COMPANY**: **ADDRESS**: **PRIMARY NUMBER**: **SECONDARY NUMBER:**
Project Developer
NAME: **COMPANY**: **ADDRESS**: **PRIMARY NUMBER**: **SECONDARY NUMBER:**

3.3 Table 3 – Emergency Contacts and Governmental Agencies

Water Pollution Control Authority
ADDRESS: 192 South Water Street, PO Box 359 **PHONE:** 860-292-8264
OSHA
ADDRESS: Building 135 High Street, Suite 361, Hartford, CT 06103 **PHONE:** 860-240-3152
State of Emergency Services
Emergency Management: 860-658-1973 **Weather Warning Center:** https://www.weather.gov/ **Hazardous Material Spills**: 860-424-3338
Fish & Game, Environmental Division

NAME: Department of Energy and Environmental Protection, Wildlife Division **ADDRESS:** 79 Elm Street, Hartford, CT 06106 **PHONE:** 860-424-3000
Emergency Contacts
POLICE DEPT **ADDRESS:** 25 School Street, East Windsor, CT 06088 **PHONE:** 860-292-8240
FIRE DEPT **ADDRESS:** 125 Main Street, Broad Brook, CT 06016 **PHONE**: 860-623-5940
STATE POLICE (use Police Department for emergencies) **ADDRESS:** Central District HQ 269 Maxim Road Hartford, CT 06114 **PHONE:** TEL: (860) 706-5656. Major Crime Unit (860) 706-5632.
Primary & Secondary Local Hospital or Urgent Care Clinic - please see pg. 24, section 7.0
Poison Control PHONE: 800-222-1222
State Environmental Agency: 860-424-3000
National Response Center (NRC): 800-424-8802

4.0 PERSONNEL ROLES AND ORGANIZATIONAL RESPONSIBILITIES

4.1 Management Team

The Management Team for this Gravel Pit Solar Project includes: Gravel Pit Solar Division Manager, Gravel Pit Solar Operations and Maintenance (O&M) Manager, and the Owner's Representative.

All inquiries and decisions regarding this Gravel Pit Solar Project should be addressed to Gravel Pit Solar Division Manager or to Gravel Pit Solar – Gravel Pit Solar Manager who will act as liaison to the Management Team.

Management Team Members, by name, for this Gravel Pit Solar Project include:

Gravel Pit Solar Division Manager:
Gravel Pit Solar Field Operations Manager:
Owner's Representative:

4.2 Owner's Representative & Developer Personnel

Owner's Representative:
Developer's Representative:

4.3 Gravel Pit Solar

4.3.1 Gravel Pit Solar Field Division Manager

The Gravel Pit Solar Division Manager is charged with the overall responsibility for the successful implementation of field operations and maintenance. The Gravel Pit Solar Division Manager responsibilities include, but are-not-limited-to:

- Prepare and organize project activities on-site.
- Review and approve the site-specific H&SP.
- Provide operational needs, supplies, etc.
- Coordinate cost controls.
- Prepare and organize project activities on-site.
- Review and approve the site-specific H&SP.
- Provide operational needs, supplies, etc.
- Coordinate cost controls.

4.3.2 Gravel Pit Solar – Lead Field Technician

The Gravel Pit Solar Lead Technician coordinates Gravel Pit Solar Field Technicians, vendors and contractor(s) and subcontractor(s) activities on the site. The Gravel Pit Solar Lead Technician's responsibilities include but are-not- limited-to:

- Prepare and organize project activities on-site.
- Supervise vendors and subcontractors for compliance with job scope and quality.
- Supervise field operations and implement safety procedures.
- Enforce implementation of EMP and established health and safety practices.

4.3.3 Emergency Management Plan (EMP)

The EMP is responsible for assuring compliance with the EMP. Specifically, duties of the EMP include but are-not-limited-to:

- Establishes site safety controls.
- Develops the EMP.
- Safety liaison with vendors and subcontractors on the site.
- Point person for health and safety questions.
- Monitors Gravel Pit Solar personnel, vendor and subcontractor compliance.
- Oversees security compliance for the Gravel Pit Solar Project.

4.4 Additional Information (use as needed)

5.0 GENERAL SITE SAFETY REQUIREMENTS

5.1 Site Requirements

- As required by the state in which the work is being performed, each subcontractor shall develop their company Injury, Illness and Prevention Program (IIPP) and shall provide written documentation to the Site Gravel Pit Solar Field Technician verifying existence of program.
- Each contractor and subcontractor shall provide a copy of their Hazard Communication Program to the Site Gravel Pit Solar Field Technician at onset of activities at the site.
- Each subcontractor is required to provide one contractor per crew and per shift that holds current standard first aid training that covers both first aid and CPR.
- Any hazardous material products brought onto the Project Site will be cleared with the Gravel Pit Solar Lead Technician or EMP. The Gravel Pit Solar Lead Technician is responsible for collecting each materials Material Safety Data Sheets (MSDS) as it enters the site. Each contractor(s) and subcontractor(s) will be responsible for submitting a list of MSDS on the job. Gravel Pit Solar shall post a composite MSDS list on the central job board in the on-site Gravel Pit Solar office or the Site Safety Binder.
- All personnel will be required to follow the Gravel Pit Solar Two Person Rule as outlined in the policy.

5.2 Site Security/Visitors & Vendors

All visitors to the Gravel Pit Solar Project site shall enter and exit through the security gate(s) and must be signed in and out by authorized personnel.

5.3 Spill Prevention

The following general requirements for any hazardous substances stored or used at this facility.

General Requirements:

- Ensure all hazardous substances are properly labeled and tightly sealed.
- Maintain and review Safety Data Sheet for hazardous materials.
- Store, dispense, and/or use hazardous substances in a way that prevents releases.
- Provide secondary containment when storing hazardous substances in bulk quantities (~55 g).
- Maintain good housekeeping practices for all chemical materials at the

facility.

5.4 Accident Reporting

All accidents will be reported to the site's Lead Technician, the Gravel Pit Solar Field Operations Manager or the EMP as soon as possible after it occurs. A complete follow-up written accident investigation report will be submitted to the Site O&M Field Technician, Gravel Pit Solar Field Operations Manager or EMP within 24 hours Accident investigations will be handled by each Subcontractor using its own internal reporting system. A copy of this report will be submitted to the Site Gravel Pit Solar Superintendent, Gravel Pit Solar Manager or EMP, as described above.

Accident investigations involving hazardous materials or wastes will be handled jointly by Subcontractor and the Site Gravel Pit Solar Field Technician, Gravel Pit Solar Field Operations Manager or EMP. This is to assure the cause of the accident is determined and proper precautions are implemented for other similar activities. The corrective action expected must be relayed to other Contractors and Subcontractors.

5.5 Safety Audits / Inspections

Each Contractor(s) and Subcontractor(s) are expected to conduct reasonable and customary self- audits of their operations and promote safe work practices.

Each Subcontractor will be required to submit a copy of the job site safety inspection or job hazard analysis upon request. The inspection forms shall be turned into the O&M Field Technician.

Gravel Pit Solar Field Technician Standard – A full site walk will be conducted during the O&M and Off phase; all systems are to be reviewed based on the Gravel Pit Solar commissioning check list. A Job Hazard Analysis is to be conducted before any task new begins, or there is a change in a specific component, element with season changes. All JHA documents are to be filed in the Site Field Technician's JHA Book and are to remain in the Gravel Pit Solar job vehicle at all times.

5.6 Tailgate/Toolbox Training

Each Subcontractor, Module Washer and Landscaper is expected to attend Gravel Pit Solar Site Safety Meeting or/and conduct their own Weekly Site Safety Meetings for their contractors. A copy of the meeting records, which enumerates the content of the meeting along with the attendance roster, shall be turned into the Site Gravel Pit Solar Field Technician.

Gravel Pit Solar Field Technician Standard – Gravel Pit Solar conducts bimonthly Gravel Pit Solar meetings during which time Gravel Pit Solar safety updates, safety conditions at each site, PPE and safety issues are reviewed. Gravel Pit Solar conducts a mandatory annual all-staff Gravel Pit Solar Team Safety Training Review each year. ALL Gravel Pit Solar Field Technicians must be OSHA 30 certified. Many Gravel Pit Solar staff have extensive supplementary safety training and Construction Safety training that is required before they are assigned to the Gravel Pit Solar job site.

5.7 Noise

Noise exposures may be expected when working near or operating machinery and equipment (e.g., graders, backhoes and generators).

If noise levels cannot be controlled, the Gravel Pit Solar Field Technician shall be notified, and the work may be temporarily suspended until suitable controls can be implemented.

Personnel will be required to wear approved hearing protection to maintain exposures below 85 dBA.

5.8 Sanitation Stations and Drinking Water

The site's Lead Field Technician or responsible Technician will be responsible for providing sanitation stations during module washing, landscaping and major repairs requiring a significant number of staff on site for more than one day.

Each individual Subcontractor is responsible for providing potable drinking water for their workers as required by State and Federal OSHA Heat Stress Standards.

Gravel Pit Solar Field Technician Standard - A minimum of 64 ounces of

drinking water in the work vehicles at all times. During High Heat Warnings a minimum of 2 gallons per worker must be on site at all times.

5.9 First Aid Training and Kits

Each Subcontractor is required to provide a minimum of one first aid/CPR trained supervisor and first aid kit/supplies that meet State and Federal OSHA Standards.

A central first aid kit will be designated at the on-site Gravel Pit Solar office or located inside the site storage Conex containers or ***SCADA cabinet*** to facilitate on-site emergency response. Off-site medical emergency facilities will be posted inside the door of the ***SCADA cabinet.*** Subcontractors are required to advise their contractor(s) of the name, address and telephone number of the designated medical facility and the location (***SCADA cabinet***) of this information on the Project Site.

Gravel Pit Solar Field Technician Standard – All Gravel Pit Solar personnel are required to have a first- aid kit in their work vehicles and a second first-aid kit is to remain in the ***SCADA cabinet***.

5.10 Fire Protection Plan

Fire extinguishers shall be inspected at the start of the Project and not less than once per month thereafter. Each Contractor or Subcontractor is required to have at least one 10-lb. ABC fire extinguisher properly tagged with a current inspection. A current inspection indicates servicing and/or inspection within the past 12 months. The following table enumerates the minimum fire protection necessary per item and activity. These minimum standards are required for every Subcontractor working on the Project.

Table 4

Cranes, forklifts, aerial devices, loaders, backhoes, etc.	10: BC	1 per piece of equipment
Work generating sparks or open flames	10: ABC	1 per operation
Temporary heating	4A: 40BC	1 per piece of equipment

devices		
Fueling areas	Dry chemical or carbon dioxide 20 ABC	2 per station
Floors	10: ABC	2 per floor <3,000 ft2 or every 100 ft of

Stored oxygen and acetylene shall be stored separately, a minimum of 20 feet or separated by a wall not less than 5 feet in height. Cylinders will be stored with caps on tight.

Should a Gravel Pit Solar Project include burning and/or welding, all burning, and welding operations will provide a fire watch person, burning blankets and a fire extinguisher to protect adjacent areas.

Gravel Pit Solar Field Technician Standard - All Gravel Pit Solar personnel are required to have one 2.0-lb. ABC fire extinguisher in their work vehicle and a second2.0-lb. ABC fire extinguisher hung on the wall just inside the door to the SCADA cabinet. Fire extinguisher gages should be checked monthly and replaced as needed.

5.10 *Excavation and Trenching* (Not applicable for Gravel Pit Solar activities, included for *Subcontractor activities required for Solar Plant major repairs)*

A competent trained person will be responsible for supervising excavations, drilling, and trenching. Type A, B, C soils will be checked daily by a certified person to determine the minimum type and level of protection necessary. Soil inspections shall be checked and documented daily by a certified person for the duration of the soil excavation. Objects shall not be stored within 2 feet of the edge of all excavations.

5.11 Fall Protection (*Not applicable for Gravel Pit Solar activities, included for Subcontractor activities required for Solar Plant major repairs)*

All contractors shall wear a full body harness and double shock-absorbing lanyard system anytime a worker is required to disconnect and reconnect to travel

around an obstacle. At no time will a worker be totally "unhooked".

Fall protection shall be provided on all fixed elevated surfaces above 6 feet for all trades. The 6-foot fall protection rule does not pertain to ladders and scaffolding as long as they are used within OSHA standards.

Subcontractors that work from temporary elevated surface heights of 6 feet or more will be required to provide a written fall protection plan. Said plan shall be submitted and approved prior to Subcontractor starting any work with a fall risk.

5.12 Confined Space Entry Requirements (Not applicable for Gravel Pit Solar activities, included for Subcontractor activities required for Solar Plant major repairs)

Confined space work requiring an entry permit shall be performed only under the supervision of a competent trained person. Only trained and authorized Contractors shall be allowed to enter the confined space. A Confined Space Entry Permit is available from the Contractor. Subcontractors may also use any equivalent permit.

5.13 Housekeeping

Regular housekeeping is a part of this job safety plan with special emphasis on keeping pathways and walkways clean and free of debris.

Gravel Pit Solar Field Technician Standard - All pathways and walkways must be clear and free of debris. SCADA cabinet and Conex containers, doorways, and interiors should be kept clean and free of debris.

5.13 Electrical

Please see Section 5.17 for Lockout/Tagout Procedures (LOTO)

All temporary power sources will be provided with Ground Fault Circuit Interrupters (GFCI), and all cords, plugs and receptacles shall be checked for damage daily. Testing of the ground and labeling of the cords will be performed as needed or at least monthly. Remove any damaged equipment from use and tag out of service until repaired.

Tools and equipment shall be routinely inspected for frayed cords, loose wires and plugs and should be tested before use.

Gravel Pit Solar Field Technician Standard - In addition to the policy and procedures list above, also refer to the attached SOP for Control of Hazardous

Energy and Gravel Pit Solar Power Generation System Testing Procedures and always conduct a JHA. These attachments further outline safe electrical work on solar plant systems and site-specific equipment procedures as well as the appropriate PPE for each task.

5.14 Forklifts

No modifications or additions that affect the capacity or safe operations of the equipment shall be made without the manufacture's written approval. Only trained and certified personnel shall be permitted to operate forklifts. All forklifts must be inspected daily before operations begin.

If a load is lifted by two or more trucks working in unison, the proportion of the total load carried by any one truck shall not exceed its capacity.

Gravel Pit Solar Field Technician Standard – All the standards and regulations listed above apply to any forklift operations.

5.15 Tools

Impact tools, such as drift pins, wedges and chisels shall be kept free of mushroomed heads. The wooden handles of tools shall be kept free of splinters or cracks and shall be kept tight in the tool and be replaced immediately if defective or damaged.

5.16 Lockout / Tag out Procedures (LOTO)

Before any modifications, maintenance, or repairs are done on equipment, tools, or power panels, the energy source shall be disconnected or turned off (turn valve, pull fuse, switch breaker) and locked out or blocked out with a padlock, chain or both to ensure energy source is locked off.
Place a tag at the disconnect point, identifying who you are, who you work for, and why you locked it off. Never move or remove another person's tag.
Be sure to release residual energy (i.e. lead line grounding circuits).
Test equipment or energy source to ensure it will not run. Turn on equipment or test circuits to ensure it is disconnected.
Restore energy safely when you are finished with your repairs. Remove lock and tag.

Gravel Pit Solar Field Technician Standards – All standards and regulations listed above apply. See attached Lockout/Tagout Procedure document.

5.17 Personal Protective Equipment (PPE)

The minimum PPE required includes hard hats, sturdy work boots, shirt sleeves (no tank tops), long pants, and safety glasses Z87 are to be worn at all times.
Goggles, and/or face shields shall be worn as necessary for eye protection.

Respiratory protection shall be worn, as necessary, to prevent breathing harmful concentrations of paint, welding fumes, concrete and sheet rock dust, vapors, etc.

Gravel Pit Solar Field Technician Standards - In addition to hard hats, work boots non-steel toe and safety glass Z87 list above, additional task specific PPE requirements are as follows: Class 00 - 1000 Volt Rated Electric Work Gloves, 1000 Volt Rated Face Shields, Level 4/40 Cal Arc Flash Suits, Class 1/12 CAL Arc Flash Suits, class 4 - 12000 Volt rated electrical gloves.

5.18 Hot Work

Subcontractors performing Hot Work such as welding, cutting, brazing, soldering, and grinding are exposed to the risk of fires from ignition of flammable or combustible materials in the space, and from leaks of flammable gas into the space, from Hot Work equipment.

All Hot Work performed by any person will require a JHA and written pre-review and approval by the Gravel Pit Solar Field Technician prior to the start of the job.

A Hot Work permit will be required for any work activity performed in an *enclosed* environment, including but not limited to inside a cabinet or a confined space, that generates sparks, open flames or creates in any way a potential fire hazard.

See Section 6.3 for required fire safety precautions during Hot Work.

6.0 CONTINGENCY AND EMERGENCY RESPONSE PROCEDURES

6.1 Site Evacuation Plan / Assembly Area

Site evacuation procedures are required as part of an emergency response plan. Upon the plant/site handover to the Gravel Pit Solar staff, every job site will be evaluated for a safe corridor for escape and assembly. Most site assembly areas will be located outside of the main access gate. Examples of emergencies requiring a site evacuation include:

Equipment fire or explosion.
Explosion from underground pocket of flammable/combustible gases.
Inclement weather.
Toxic gas/vapor release from subsurface pocket of gases or containers.
Cave-in from excavated trenching.

During any construction work, evacuation routes are established upwind and a cross from the direction of wind flow as determined by either a windsock or other visual means of determining air movement. In the event of an evacuation signal, every worker is required to cease operations, note the wind pattern and move in a cross and upwind direction to the designated assembly point.

See the attached Emergency Assembly Map for this site-specific assembly point.

6.2 Response to Release of Hazardous Materials / Wastes

Gravel Pit Solar sites are equipped with spill kits to handle the containment and clean- up of minor spills. For spills over 25 gallons,

technicians should attempt to stop the leak (if possible), and contain the spill then contact a Lead Field technician immediately. The Lead Field Technician shall evaluate the extent of the spill and determine if the local Spill Remediation Contractor needs to be called in for clean-up. Notifications to the National Response Center (NRC) and State Environmental agency might be required as outlined in the site's Spill Prevention and Response Plan. Any notification to a government agency requires follow-up notification to the owner and Gravel Pit Solar's Compliance Department.

6.3 Fire – See Section 5.9 Fire Protection Plan for Fire Extinguisher Requirements

Alert and immediately evacuate personnel away from the immediate area. Notify Site Gravel Pit Solar field Technician, Gravel Pit Solar Field Operations Manager or EMP regarding any size fire that occurs on the Project Site. **If necessary, Gravel Pit Solar Staff or Management will notify the Fire Department by calling 911 and/or the local Fire Department.**

For small fires, a fire that can be controlled with one 2.5 lb. fire extinguisher, contain and extinguish the fire as quickly as possible. For larger fires, immediately evacuate the affected area and gather in the designated assembly area outside of gate access locations.

6.4 Explosions

Following an explosion, immediately survey the affected area for injured workers. If the area is safe to enter, move the injured to a safe distance. Injured workers will be transported to the nearest emergency medical facility.

Once injured workers have been moved, immediately evacuate the affected area and gather in the designated assembly area outside of the gate access location. If a fire develops, follow emergency procedures for fire control and evacuation, as described above.

6.5 Accidents

All accidents/incidents shall be reported to the Gravel Pit Solar Lead Field Technician, Gravel Pit Solar Field Operations Manager or the EMP immediately for investigation and follow- up. An incident written incident report shall be submitted to the Site Gravel Pit Solar Field Technician and EMP within 24 hours. For accidents involving personal injury, immediately apply appropriate first aid and transport the injured party to the designated medical facility. Never allow the injured contractor to transport them. The Site Gravel Pit Solar Field Technician (OSHA30 trained) will summons emergency medical response for injuries requiring emergency medical assistance and ambulance transport.

6.6 Vehicle Accidents

Stop the vehicle as soon as safely possible. Assess the damage to the vehicle and collateral damage to equipment other objects. If injuries are sustained, follow the accident procedures above. Report all vehicle accidents to the Site Gravel Pit Solar Field Technician Gravel Pit Solar Field Operations Manager or EMP immediately.
The attached Vehicle Accident Report must be filled out and submitted to the Site Gravel Pit Solar Field Technician and EMP.

6.7 Equipment Failure or Power Outage

Turn off equipment or power. Assess damage and notify the Site Gravel Pit Solar Field Technician or Gravel Pit Solar Field Operations Manager. Wait for further instructions from Site Gravel Pit Solar Field Technician, Gravel Pit Solar Field Operations Manager.

6.8 Natural Disaster/Earthquake Checklist

1. Shut down all operations/equipment in a safe effective manner
2. Check all personnel for injury and follow appropriate procedures
3. Inspect all fuel/oil/wastewater tankage and/or containment structures for signs of leakage or damage
4. Inspect all operational units for proper operations made, and manually check to insure all automatic and alarmed features are working properly
5. Inspect all piping, values, and fixed pumping units for damage
6. Re-inspect electrical circuits and power supplies for damage

7. Report to assembly point and wait further instructions

6.9 Exposure Assessment

Subcontractors will become familiar with the potential hazards on the job, as described in this EMP. They will train, manage and provide appropriate measures to protect their contractors. Each Subcontractor shall provide appropriate tools, (i.e., PPE, equipment, environmental exposure monitors) to assess and assure that its contractors are working in a safe area and manner.\ Liaison, Notification Requirement for Incidents, Accidents and Injuries

Should any of the events listed above occur, the Gravel Pit Solar Field Technician, Gravel Pit Solar Field Operations Manager, and the EMP shall be contacted immediately. The EMP will assist Subcontractors in the issuance and preparation of a written report to the Gravel Pit Solar Field Operations Manager within 24 hours.

Gravel Pit Solar, Inc. Management and the EMP will determine the appropriate reporting and notification procedures involving notification and follow up to local authorities.

6.10 Additional Information (Use as needed)

7.0 MEDICAL MANAGEMENT PLAN

7.1 Medical Support Facilities

The closest emergency medical facilities shall be identified and posted on the job site. The following medical support personnel have been contacted and informed of this ongoing Gravel Pit Solar project. The contacts and corresponding telephone numbers of local clinics and hospitals are provided below.

Primary & Secondary Local Hospital or Urgent Care Clinic
PRIMARY ADDRESS: St. Francis Hospital and Medical Center 114 Woodland Street, Hartford, CT 06105 **PHONE**: 860-714-4000 **SECONDARY ADDRESS**: Concentra Urgent Care, 1080 Day Hill Rd, Windsor, CT 06095 **SECONDARY PHONE**: 860-298-8442

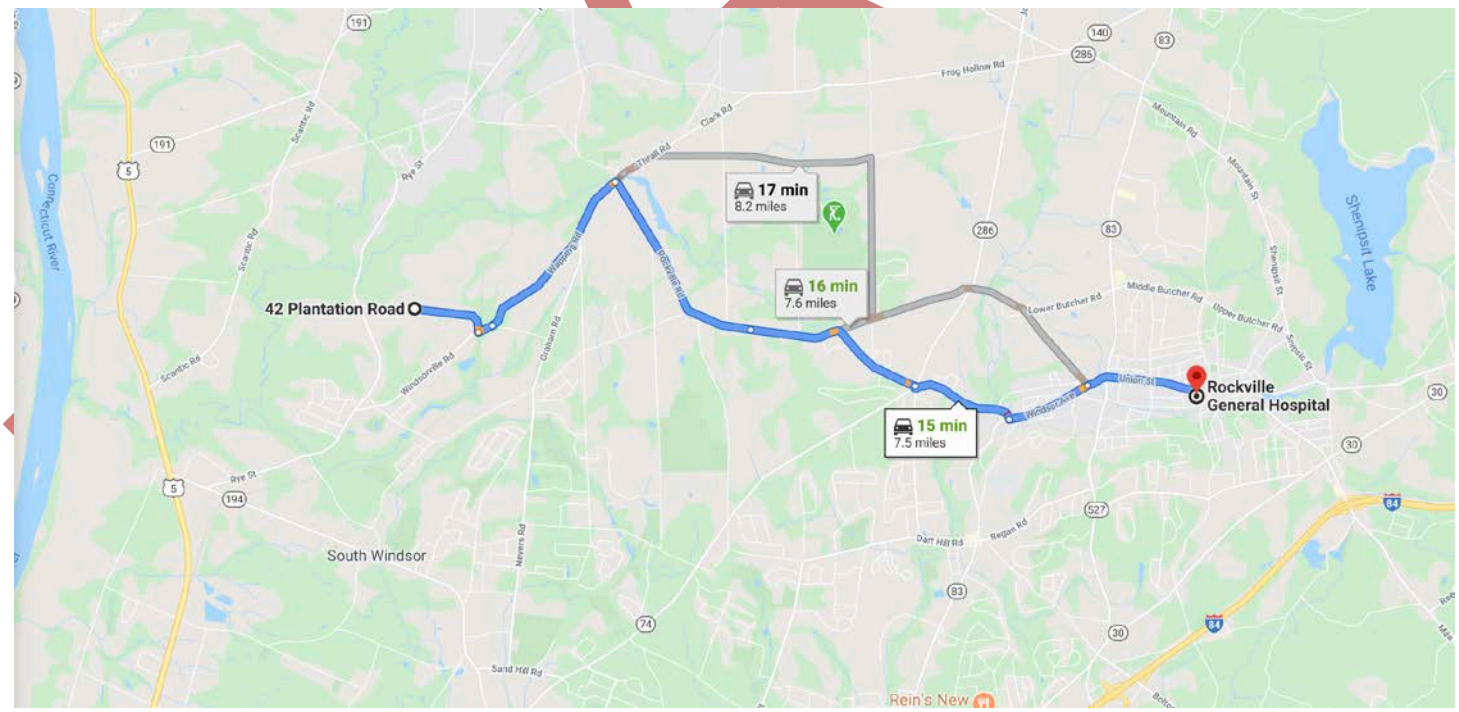
Please see attached map showing the transportation route to the closest clinic or hospital.

7.2 Additional Information (Use as needed)

Closest Hospital

Rockville General Hospital

31 Union Street,
Vernon, CT 06066
(860) 872-0501



Closest Urgent Care

SECONDARY

CONCENTRA URGENT CARE

1080 Day Hill Road,

Windsor, CT 06095

(860) 298-8442

EMERGENCY ASSEMBLY AREA

AND SITE MAP

TO BE ADDED

ALL TASKS LISTED BELOW REQUIRE PPE RATED FOR THE TASKS AT HAND. ALL PPE SHOUD BE SIZED FROM THE REQUIRED ARC FLASH LABELS. ALL PPE IS TO BE CHECKED PRIOR TO EVERY USE AND IS THE RESPONSIBILITY OF THE INDIVIDUAL WEARING SUCH PPE.

SOME EQUIPMENT ARC FLASH RATINGS EXCEED RATED PPE, WHEN THIS HAPPENS OPERATIONS MUST BE COMPLETED DE-ENERGIZED.

STOP WORK IF ANY ABNORMAL CONDITION ARISES

General		
Where the heat index is above 95 degrees two people are required		
Where the work is on a rooftop two people are required		
Where the work is on a carport two people are required		
Equipment type	**One person**	**Two people**
POI (substation, switchgear, recloser)		
	Visual inspection from outside the fence	All POI inspections require two people
		All site trips require two people
		Any work at the POI area, or inside the fence
Pad Mount transformer		
	Inspect exterior for leaks	IR scanning cable terminations
	If Gauges are external, can inspect gauges	Interior inspections
	Inspect exterior paint condition and touch up	DGA's if internal after isolation
	DGA's if external	Verify electrical circuits of SCADA inputs
	Inspect exterior paint condition and touch up	Operate breakers outside of normal conditions, for any repairs or breaker trips
	Open swing door to visually inspect seals and breaker status	Internal inspections and IR scans
	Operate breakers under normal operating conditions only if PPE Exceeds ARC Flash hazard shown on ARC flash label. If no label exists requires de-energizing of any other energy source.	To perform any repairs
AC Panel or skid control power panels		
	Inspect exterior paint condition and touch up	Internal inspections and IR scans
	Operate breakers under normal operating conditions with dead front in place, only if PPE Exceeds ARC Flash hazard shown on ARC flash label. If no label exists requires de-energizing of any other energy source.	Troubleshooting and resetting tripped breakers
		Any repairs to AC panels or control power transformers
Inverter		
	Inspect exterior paint condition and touch up	Opening any cabinet doors where voltage is present
	External inspections for damage	Preforming inverter PM
	Fault resetting from control panels	Internal inspections and repairs
	Reading HMI screen for inverter data	Fuse replacements
	Pulling event logs	Ground fault troubleshooting
	Resetting from control panel only (without breaker operation or opening of inverter cabinets)	
Recombiner		
	WITH VOLTAGE PRESENT (Daytime)	**WITH VOLTAGE PRESENT (Daytime)**
	Inspect exterior paint condition and touch up	Opening any bolted cabinet doors
	Operate breakers under normal operating conditions only if PPE Exceeds ARC Flash hazard shown on ARC flash label. If no label exists requires de-energizing of all field combiners prior to recombiner operation.	Internal inspections and IR scans
		Operate breakers outside of normal conditions, for any repairs or breaker trips
	WITH NO VOLTAGE PRESENT	**WITH NO VOLTAGE PRESENT (Nighttime)**

	(Nighttime)	
	Internal inspections and repairs	
	Troubleshooting	
	Preform PM	
Combiner box		
	WITH VOLTAGE PRESENT (Daytime)	**WITH VOLTAGE PRESENT (Daytime)**
	Inspect exterior paint condition and touch up	Opening any cabinet doors
	With doors shut and latched operate disconnect handle	Performing IR scans
		Internal inspections and repairs
		Fuse replacements
		Ground fault troubleshooting
		String testing
	WITH NO VOLTAGE PRESENT (Nighttime)	**WITH NO VOLTAGE PRESENT (Nighttime)**
	Opening any cabinet doors	
	Internal inspections and repairs	
	Fuse replacements	
	Ground fault troubleshooting	

ALL TASKS LISTED BELOW REQUIRE PPE RATED FOR THE TASKS AT HAND. ALL PPE SHOUD BE SIZED FROM THE REQUIRED ARC FLASH LABELS. ALL PPE IS TO BE CHECKED PRIOR TO EVERY USE AND IS THE RESPONSIBILITY OF THE INDIVIDUAL WEARING SUCH PPE.

SOME EQUIPMENT ARC FLASH RATINGS EXCEED RATED PPE, WHEN THIS HAPPENS OPERATIONS MUST BE COMPLETED DE-ENERGIZED. STOP WORK IF ANY ABNORMAL CONDITION ARISES

General		
Where the heat index is above 95 degrees two people are required		
Where the work is on a rooftop two people are required		
Where the work is on a carport two people are required		
Equipment type	**One person**	**Two people**
	Shield removal	
String wires		
	WITH VOLTAGE PRESENT (Daytime)	**WITH VOLTAGE PRESENT (Daytime)**
	Visual inspections	After isolation string wire, fuse, and connector repairs
	Current readings without circuit interruption	Major zip tie replacement or on strings over 600V
	Minor zip tie replacement on strings under 600V	
	WITH NO VOLTAGE PRESENT (Nighttime)	**WITH NO VOLTAGE PRESENT (Nighttime)**
	String wire, fuse, and connector repairs	
	String wire management and zip tie repairs	
Racking		
	Preform all racking PM without exposure to any damaged modules or unmanaged strings	Excessive damage or where damage exists on modules and strings
Trackers		
	Perform tracker PM	All controller repairs over 110V
	Tracker repairs except motor controller repairs over 110V	Ground fault locating
	Open tracker controller over 110V for visual inspections only	
Modules		
	WITH VOLTAGE PRESENT (Daytime)	**WITH VOLTAGE PRESENT (Daytime)**
	Visual inspections	Isolating modules from the array
	IR scans and PM	Testing modules connected to the array
	Handling individual modules not connected to the array	Carrying modules over 50 Lbs.
	Test individual modules not connected to the array	
	WITH NO VOLTAGE PRESENT (Nighttime) Isolating modules from the array	**WITH NO VOLTAGE PRESENT (Nighttime)**
MET Station		
	Perform all PM	
	Replacement of sensors	
	Troubleshooting and repairs	
	Programming	
SCADA within substations		
	VISUAL INSPECTION PERMIT REQUIRED	**HV PERMIT REQUIRED**
	Visual inspections	Troubleshooting and repairs
	Logging into network	Replacement of sensors
		Preform all PM
		Power cycling
		Working on UPS System
	VIRTUAL PERMIT REQUIRED	
	Programming	
DAS outside of substations		
	Perform all PM	
	Replacement of components	
	Troubleshooting and repairs	
	Logging into network	
	Power cycling	
	VIRTUAL PERMIT REQUIRED	
	Programming	
Site		
	Driving and inspections of site and fencing	Inspection and IR of any junction boxes
	Cleaning up trash and debris	Digging near conductors

	Weed control none mechanical	Weed control mechanical
	Fence and security system repairs	
	Site PM	