

Construction Safety Plan

Project Name Tule Wind Project
Project Number 05480007
Preparation Date 07/09/2012

1.0 Introduction

Barr Engineering is committed to providing a safe and injury free work environment for all staff and its contractors. This document outlines certain guidelines that will be followed when performing construction activities. **A field copy of this plan should be present on-site at all times.**

In addition to the requirements outlined in this plan, Barr and Barr contractors will review the Barr Health and Safety Program Manual. Other safety programs which may be applicable to this project include (but is not limited to): construction safety, personal protective equipment, fall protection, excavation safety, confined space entry, lockout/tagout, water safety, boat safety and hazard communication/Employee Right to Know. **A field copy of the Barr Health and Safety Program Manual should be kept on-site.**

The Barr Health and Safety Program Manual contains a copy of the Barr Health and Safety Program in Section A. This program meets the requirements of Federal OSHA for General Safety and Health Provisions for Safety Training and Education.

2.0 Organization and Coordination

Barr Project Manager: Jedediah Greenwood
Barr On-site Representative: to be assigned when project work starts
Contractor Safety Coordinator: to be assigned when project work starts

3.0 Project Description/Scope of Work

The Tule Wind Project is located in San Diego County, California, just north of the town Boulevard. The project is proposed to consist of 69 wind turbines located in McCain Valley, in addition to access roads and associated structures. The site consists of hilly terrain and the bedrock comprises weathered granite. Many large granite boulders cover the site. The on-site work will consist of a geotechnical investigation which will include soil borings/rock coring using a drill rig and exploratory test pits using a backhoe.

4.0 Potential hazards

- | | |
|--|---|
| <input checked="" type="checkbox"/> Falls over 6 feet | <input type="checkbox"/> Electric Shock |
| <input type="checkbox"/> Elevated Loads | <input type="checkbox"/> Water hazards |
| <input type="checkbox"/> Dropping mtl's/tools to lower level | <input type="checkbox"/> Chemical contact |
| <input checked="" type="checkbox"/> Utilities | <input type="checkbox"/> Ladder/Scaffold Use |
| <input checked="" type="checkbox"/> Excavation cave-in | <input type="checkbox"/> Confined Space |
| <input checked="" type="checkbox"/> Loud Noise | <input checked="" type="checkbox"/> Slippery working conditions |
| <input checked="" type="checkbox"/> Heat/Cold Extremes | <input checked="" type="checkbox"/> Misc. Surface Hazards (sharp objects, debris) |
| <input type="checkbox"/> Structural Hazards | <input type="checkbox"/> Other_____ |
| <input checked="" type="checkbox"/> Moving Equipment | |

5.0 Hazard Elimination

- | | |
|--|--|
| <input checked="" type="checkbox"/> Hardhat/safety glasses | <input checked="" type="checkbox"/> Work area cleanup |
| <input checked="" type="checkbox"/> Steel-toed Boots | <input type="checkbox"/> Lifesaving boat with oars and motor and throwable ring buoy |
| <input checked="" type="checkbox"/> Hearing protection, when applicable | <input type="checkbox"/> Personal Floatation Device (PFD) |
| <input type="checkbox"/> Ladder tie-off | <input checked="" type="checkbox"/> High Visibility Vest |
| <input type="checkbox"/> Scaffold erection by competent person | <input checked="" type="checkbox"/> First aid/CPR kit |
| <input checked="" type="checkbox"/> Excavation inspection by competent person, when applicable | <input checked="" type="checkbox"/> Work rest periods; potable water |
| <input checked="" type="checkbox"/> GFCI in place | <input checked="" type="checkbox"/> Work area delineation |
| <input checked="" type="checkbox"/> Buddy System | <input type="checkbox"/> Confined space entry permits |
| <input type="checkbox"/> Lockout/Tagout Procedures | <input checked="" type="checkbox"/> Material Safety Data Sheets |
| <input type="checkbox"/> Guardrails | <input type="checkbox"/> Other_____ |
| <input checked="" type="checkbox"/> Fall Protection, when applicable | |

6.0 General Information

- a. Barr and Barr subcontractors will conduct a job and safety briefing on a daily basis before commencing work.

List of safety topics to be discussed, as applicable to the project work:

- Weather
- Balance/Traction/Grip
- Biological Hazards
- Fall Protection (> 6 ft)
- Utilities
- Excavation (> 4 ft, working near or entering excavation)
- Vehicular Traffic or Heavy Equipment
- Ergonomics/Heavy Lifting

- b. Barr and Barr subcontractors will conduct regular safety inspections of the work area.
- c. Barr will drive the route to the medical facility on the first day of site operations.
- d. All overhead/underground utilities must be cleared before site operations.

7.0 Required Safety Training

- | | |
|--|--|
| <input checked="" type="checkbox"/> Field Activities and Safety Practices | <input type="checkbox"/> Lockout/Tagout |
| <input checked="" type="checkbox"/> Excavation Safety, when applicable | <input type="checkbox"/> Hearing Conservation |
| <input checked="" type="checkbox"/> Fall Protection, when applicable | <input type="checkbox"/> AWAIR (MN only) |
| <input type="checkbox"/> Water/Boat Safety | <input type="checkbox"/> Work around Earth Moving Equipment (MN only) |
| <input type="checkbox"/> Ice Safety | <input checked="" type="checkbox"/> First Aid/CPR (<i>Recommended when working in remote areas where medical care is not readily available.</i>) |
| <input type="checkbox"/> Confined Space | <input checked="" type="checkbox"/> Personal Protective Equipment |
| <input checked="" type="checkbox"/> Hazard Communication/ERTK, when applicable | |
| <input checked="" type="checkbox"/> Safe Start | |

8.0 Reporting of Accidents and Incidents

Barr and Barr subcontractors will immediately report to the Owner managing the project all accidents, incidents, or situations that may cause unsafe conditions for Barr staff. Barr staff will also notify the Project Manager of these conditions. Procedures for reporting accidents/incidents are detailed in the written Barr Health and Safety Program (See Barr Health and Safety Program Manual, Section A).

9.0 Emergency Procedures

Barr and Barr subcontractors will establish evacuation procedures prior to beginning work on-site. These procedures are to be implemented in the event of fire, explosion, accident, hazardous substance release, flooding or other emergency that could threaten human health or the environment. These procedures are intended to be compatible with and to integrate the emergency response of local emergency service providers and general contractor for the project.

- Emergency Telephone Numbers (List)

Hospital (name): El Centro Regional Medical Center (760) 339-7100

Police: 911 (Boulevard Sheriff Department: 619-766-4585)

Fire: 911 (Boulevard Fire Board: 619-766-4633)

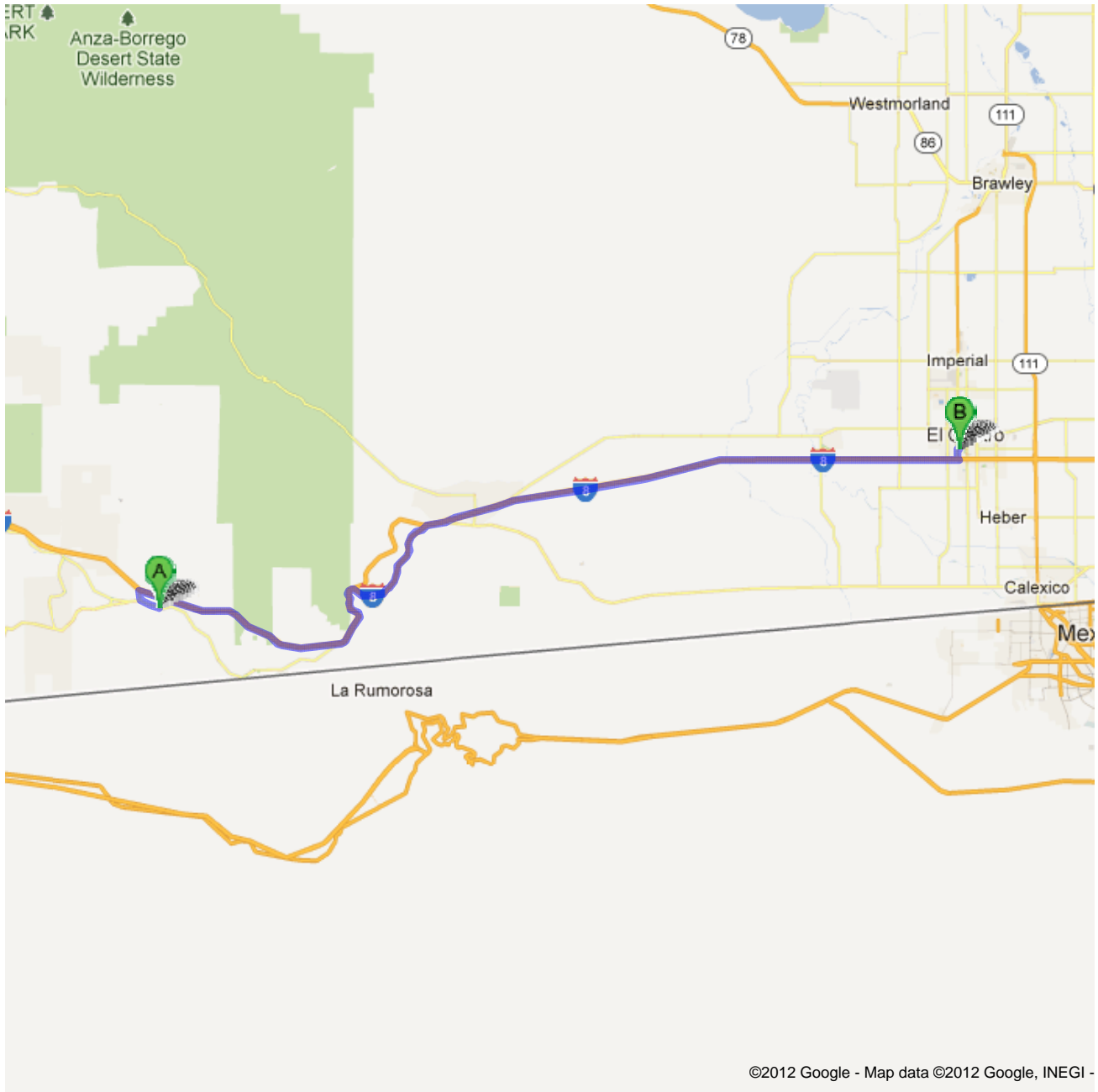
Ambulance: 911


Project Manager: Jedediah Greenwood, [REDACTED]

- First Aid Kit (location): Location to be assigned when project work starts
- Material Safety Data Sheets (location): Available in Section Y of the Barr Health and Safety Program Manual
- Evacuation Escape Route: Review during daily job and safety briefing
- Accountability for Persons: Employee will check in with the project manager or designated office team member on a daily basis
- Pre-Emergency Notification: Contact the Project Manager or a Health and Safety Coordinator
- Driving Directions to Medical Facility: Refer to attached hospital route map (attached)




Directions to El Centro Regional Medical Center, El Centro, CA
50.9 mi – about 51 mins





 Boulevard, CA


1. Head **north** on **Tule Jim Ln** toward **Old Hwy 80** go 49 ft
total 49 ft


 2. Turn left onto **Old Hwy 80** go 1.0 mi
total 1.0 mi
About 2 mins

 3. Turn right onto **CA-94 E/Ribbonwood Rd** go 0.5 mi
total 1.5 mi
About 1 min

 4. Turn right to merge onto **I-8 E** go 48.4 mi
total 49.9 mi
About 45 mins

 5. Take exit **114** to merge onto **S Imperial Ave** toward **El Centro** go 0.9 mi
total 50.8 mi
About 2 mins

 6. Turn right onto **Ross Ave** go 322 ft
total 50.9 mi

 El Centro Regional Medical Center, El Centro, CA

These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2012 Google, INEGI

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.