

	Environmental Analysis Teaching and Research Laboratory	Date: 8/11/2016	Number: X
	Standard Operating Procedure	Title: Electrical Power in the Field	
	Approved By: Los Huertos	Revision Date:    /    /	

## 1. Scope and Application

**1.1** Electrical power can come from infrastructure sources, such as outdoor or indoor outlets, portable generators, or solar power.

**1.2** This documents outlines some of the risks associated with electricity in the field

**1.3** We develop strategies to mitigate these risks.

## 2. Health and Safety

**2.1** Getting electricity in the field has risks, thus it's important to develop mitigation plans

**2.2** Always read and follow the manufacturer's operating instructions before running generator

**2.3** Engines emit carbon monoxide. Never use a generator inside your home, garage, crawl space, or other enclosed areas. Fatal fumes can build up, that neither a fan nor open doors and windows can provide enough fresh air.

**2.4** Only use the generator outdoors, away from open windows, vents, or doors.

**2.5** Use a battery-powered carbon monoxide detector in the area you're running a generator.

**2.6** Gasoline and its vapors are extremely flammable. Allow the generator engine to cool at least 2 minutes before refueling and always use fresh gasoline.

**2.7** Maintain your generator according to the manufacturer's maintenance schedule for peak performance and safety.

**2.8** Never operate the generator near combustible materials.

**2.9** If you have to use extension cords, be sure they are of the grounded type and are rated for the application. Coiled cords can get extremely hot; always uncoil cords and lay them in flat open locations.

**2.10** Never plug your generator directly into your home outlet. If you are connecting a generator into your home electrical system, have a qualified electrician install a Power Transfer Switch.

**2.11** Generators produce powerful voltage - Never operate under wet conditions. Take precautions to protect your generator from exposure to rain and snow.

### 3. Personnel & Training Responsibilities

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Students using this SOP should be trained for the following SOPs:

- SOP 03 Field Safety

### 4. Required Materials

**4.1. Item 1 w/catalog number!**

**4.2. Item 2**

### 5. Estimated Time

**5.1** This will take XX minutes...

### 6. Procedure

**6.1** Prepare ...

**6.2** If you do not plan to use the generator in 30 days, use fuel stabilizer with gas and drain carburetor.

### 7. References

**7.1** APHA, AWWA, WEF. (2012) Standard Methods for examination of water and wastewater. 22nd American Public Health Association (Eds.). Washington. 1360 pp. (2014).