

## Procedure: Install Hybrid Grounding Device

### Purpose

The purpose of this procedure is to provide clear instructions on how to install the “RU Grounded” ground device effectively in field conditions.

### Application

- Applies to all field personnel who install and maintain the Hybrid Grounding Device.

### Roles & Accountabilities




#### **Managers/Supervisors:**

- Ensure field installers are properly trained and consistently follow installation procedures.
- Ensure that adequate Bonding and Grounding Plans are produced to minimize:
  - Step and Touch Potential Hazards
  - Static Electricity discharge and/or sparking due to differential voltages
 and account for:
  - the particular site characteristics
  - the presence of flammable fluids and vapors
  - equipment parameters (fault currents, isolated components, distance to grounds, bonding and grounding conductor sizes)
  - static electricity generation, including fluid flow through pipes/hoses
  - voltage differentials on pieces of equipment

#### **Field Workers**






- Follow procedures for installation, removal and maintenance of ground devices and the related bonding and grounding system.

### Procedure

Tasks	Steps	Resources/Hazards
<b>1. Prepare Hybrid Ground Device</b> 	1. Lay out ground device in suitable location.  2. Connect clamp to convenient location on ground device with cable.  3. Fill and pack the hybrid grounding device and with local soil (bentonite in winter). 4. Add water to moisten soil.	☑ Remove any crushed rock or other surface material that may interfere with establishing a good connection to the earth. 📄 checklist: Bonding and Grounding Plan 📄 Background: Bonding and Grounding definitions. ⚠ Ensure connection point is free of dirt and tight. ☑ Cable will be used to connect bonding station shown below.

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	5. In winter, connect magnetic block heater. 6. Install cover to retain moisture/heat. 	
<b>2. Test and Make Connections</b> 	1. Measure ground resistance to determine if it is suitable for the application.  2. Connect the ground device to a bonding station to make it available for connections to equipment as required.  3. Tighten all connections. 	⚠ You must have the correct type of device and be competent to operate it. ☑ Acceptable ground resistance may vary by client.

**References**

Reference Type	Doc. No.	Document Name/Link
Background Documents:		Definitions: Bonding and Grounding
Related Documents:		

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