

## PIENAAR ENERGY (PTY) LTD

# Which equipment in the base station site needs to be grounded



## Overview

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Placing an 8' ground rod into the ground directly below the antenna is recommended for a base station. All these connections should be sealed, preferably with a Coax Seal. Grounding is a basic communications procedure, each Soldier should know how and why to perform grounding pr e grounding devices for tactical equipment and systems. IN ELECTRICAL STATIONS INCLUDING TRANSMISSION AND DISTRIBUTION SUBSTAT GR THAN 8 FT FROM THE FENCE. THE FENCE SHALL BE GROUNDED SEPARATELY FROM THE GRID UNLESS OTHERWISE NOTED ON THE A PROPRIATE PROJECT DRAWING. SEE APPLICATION. From the reading i have done, my understanding is that all my equipment in the shack needs to be connected to a single point ground which runs a ground wire outside to the ground rod. When i connect it to a DC power supply in the shack, does the mobile unit need to be grounded?

From what i can see. Proper grounding of your equipment is very important. I know of cases where operators have gotten shocks while keying up and touching the mic to their lips.

## Which equipment in the base station site needs to be grounded



### Proper Base Station & Mobile Grounding

The radio, amplifier, tuner, meters, TVI filter, etc., should be connected together and grounded. This will usually help prevent RFI problems and RF feedback, which causes audio distortion and squealing in ...

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### AFI 32-1065 Grounding Systems

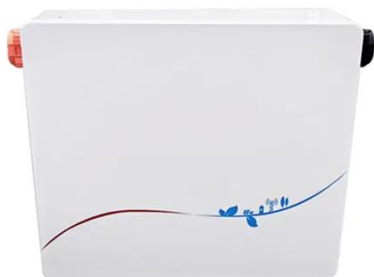
It assigns maintenance responsibilities and requirements for electrical grounding systems on Air Force installations, including systems for equipment grounding, lightning protection, and static protection.

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### Grounding Techniques for Tactical Equipment and Systems

e grounding devices for tactical equipment and systems. This publication provides grounding techniques information and guidance to commanders, staffs, operators, and maintainers



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## Electrical grounding

Most grounding problems usually occur when multiple shelters, antennas or power generators are cosited to form a TOC. Poor connections between shelters, internal equipment and the earth are ...

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## Do I ground a mobile unit when used as a base station.

Once your external antennas and feedlines are grounded for lightning safety (and that ground bonded to your service panel), you probably don't need any extra ground connections in the shack.

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## Slide 1 STATION AND TOWER GROUNDING

At a minimum use grounding clamps. Avoi.

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## 29 CFR 1926.962 -

This section covers grounding of transmission and distribution lines and equipment when this subpart requires



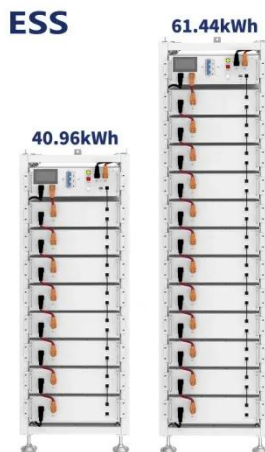
protective grounding and whenever the employer chooses to ground such lines and ...

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## GROUND GRID SPECIFICATIONS

THE STRUCTURE BASE AREA DIMENSION IS GREATER THAN 5 FT SQUARE OR SUPPORT ACTIVE DEVICES: (SWITCHES, BREAKER, ETC.), THEN TWO GROUND COPPER ...

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## Tower and Base Station Antenna Grounding

The short answer is that yes, your tower, antenna, and coax may share a ground. In fact, their grounds are required to be bonded (connected) to each other and to your electrical system ...

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