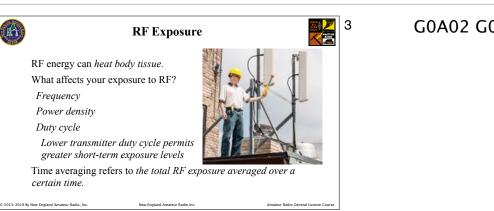
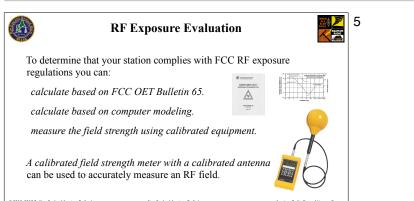
| | General Class Unit 10 Question Pool §0 | |
|--|---|--------------------------------------|
| | Electrical and RF Safety | |
| | 2 Questions | |
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| RF Exposure | e Thr | eshold | ls | | |
|--------------------------------------|----------------------------------|--------|-----------|---|--|
| | Part 97.13 Evaluation Thresholds | | | | |
| When transmitter power exceeds | Band | PEP(W) | Band | PEP (W) | |
| the levels listed in part 97.13, | 160 m | 500 | 10 m | 50 | |
| you must <i>perform a routine RF</i> | 80 m | 500 | VHF | 50 | |
| exposure evaluation. | 75 m | 500 | 70 cm | 70 | |
| exposure evaluation. | 40 m | 500 | 33 cm | 150 | |
| If your station exceeds | 30 m | 425 | 23 cm | 200 | |
| permissible levels, you must | 20 m | 225 | 13 cm | 250 | |
| take action to prevent human | 17 m | 125 | SHF | 250 | |
| exposure to the excessive RF | 15 m | 100 | EHF | 250 | |
| fields. | 12 m | 75 | Repeaters | Non-building mounted antennas with their lowest point < 10m and ERP > 500 watts, or building mounted with ERP > 300 watts | |



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RF Exposure Precautions

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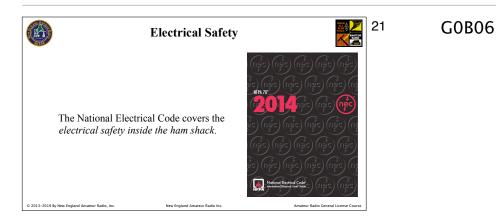


If a neighbor might receive more than the allowable limit, *take precautions to ensure that the antenna cannot be pointed in their direction.*

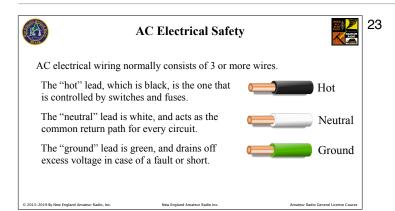
In an indoor antenna installation make sure that maximum permissible exposure (MPE) limits are not exceeded in occupied areas.

A precaution that should be taken when installing a ground-mounted antenna is *it should be installed such that it is protected against unauthorized access.* ACAUTION ACAUTI

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Electrical Safety

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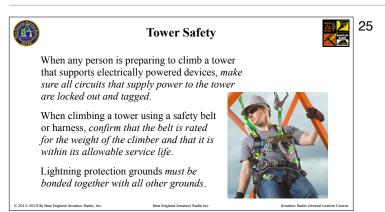
In AC wiring the fuse or circuit breakers should be connected to the hot wire(s) only.

In a four-conductor line cord *only the two wires carrying voltage* should be attached to fuses or circuit breakers in a device operated from a 240-VAC single-phase source.

The condition that will cause a Ground Fault Circuit Interrupter (GFCI) to disconnect the 120 or 240 Volt AC line power to a device is the *current flowing from one or more of the voltage-carrying wires directly to ground.*

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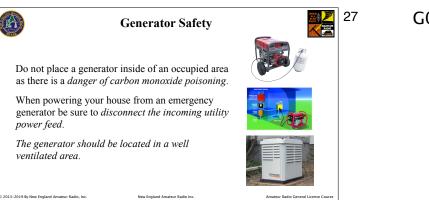
Miscellaneous Safety
COB10 GOB12 GOB14

A danger from lead-tin solder is lead can contaminate food if hands are not washed carefully after handline.
Image: Comparison of the cabinet is opened.

A power supply interlock ensures that dangerous voltages are removed if the cabinet is opened.
Image: Comparison of the transmitter and disconnect the feed line.

Vent making adjustments or repairs to an antenna, turn off the transmitter and disconnect the feed line.
Image: Comparison of the transmitter and disconnect the feed line.

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