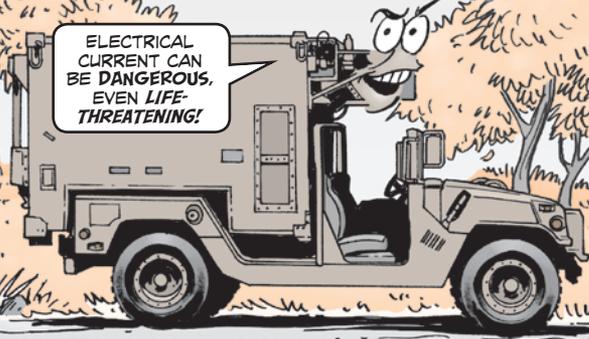
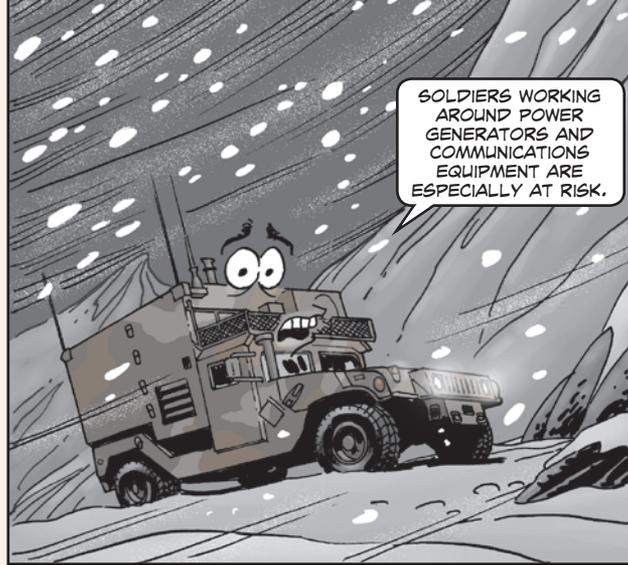


STAY SAFE AROUND ELECTRICITY!

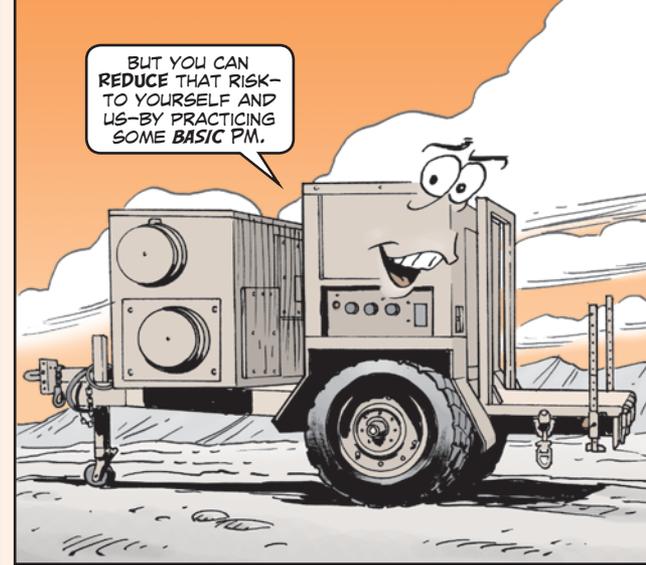
ELECTRICAL CURRENT CAN BE DANGEROUS, EVEN LIFE-THREATENING!



SOLDIERS WORKING AROUND POWER GENERATORS AND COMMUNICATIONS EQUIPMENT ARE ESPECIALLY AT RISK.



BUT YOU CAN REDUCE THAT RISK- TO YOURSELF AND US- BY PRACTICING SOME BASIC PM.



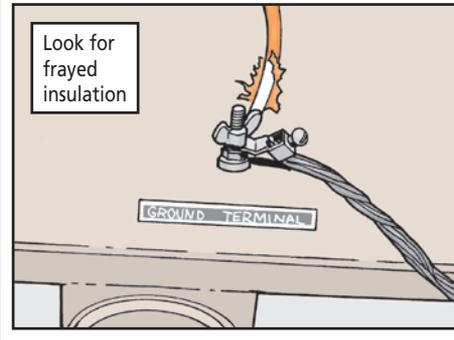
HERE ARE SOME PM TIPS FROM THE PROGRAM MANAGER'S OFFICE FOR MOBILE ELECTRIC POWER.

READ AND APPLY THEM. THEY WILL SAVE LIVES.

1. Inspect wiring regularly.

Look for frayed insulation and insulation worn down to the bare wires. It may not be your job to fix a wiring problem, but it is your job to report it.

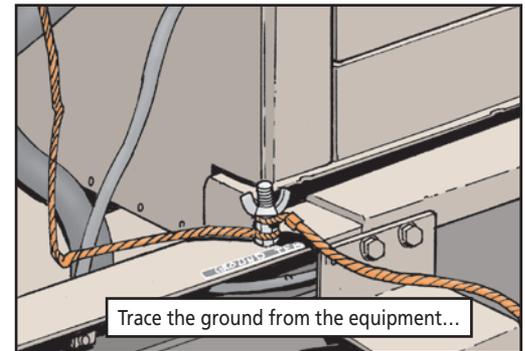
Look for frayed insulation



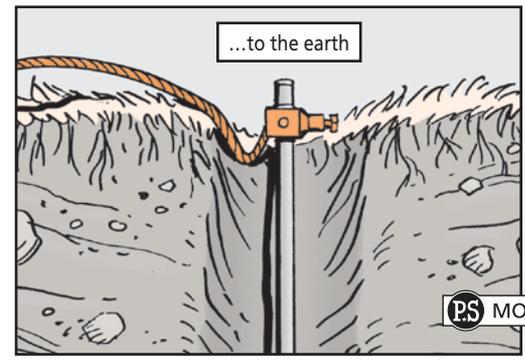
2. Check for grounds.

Every ground has two ends. At one end, the grounding wire is attached to a piece of equipment or a shelter. At the other end, the grounding wire is attached to a ground rod firmly planted in the earth.

The grounding wire should not be frayed or spliced. Make sure good compression connections, such as a lug-and-bolt, are used to attach the grounding wire to the equipment and the ground rod. Clips won't do the job. Never operate generators or equipment when the grounding electrode conductor is disconnected or you are working on it. If you do, stray voltage could hurt you or your equipment.



Trace the ground from the equipment...



...to the earth

PS MORE

3. Equipment grounding conductors (EGCs) or bonding wires are just as important as earth grounds.

Check them also. They are there for your protection. EGCs are usually the green wire in the cable bundle that connects to the generator. Check to make sure EGCs or bonding wires are in place. Make sure they are not broken. Check connections to make sure they are tight.

Equipment specialists need to ensure that a low-impedance path to clear the mobile power equipment circuit breakers is in place and intact. Use your TM to check for a damaged EGC and the steps to take if you find one.

4. Co-located shelters need to be both grounded and bonded.

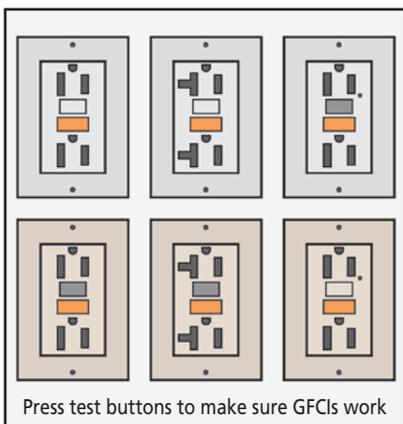
Bonding is when you electrically connect two shelters to keep them at the same voltage. A voltage difference between two shelters can lead to shocks and even electrocution. The best place for this bond is at the ground connections of the co-located equipment and shelters.



5. Check all ground fault circuit interrupters (GFCIs) and circuit breakers monthly.

They are for your protection. But if they are not maintained, they will not work. And if they don't work, they won't protect anyone.

Check the GFCIs and circuit breakers to make sure they haven't tripped. If they have tripped, the switch or lever will not be fully seated. GFCIs usually have a separate indicator that pops out when tripped. It's also a good idea to turn breakers off and back on to make sure the switches move.



Circuit breakers should never be used as a switch, unless they're designed to be one like on most generators and CE shelters. If a circuit breaker repeatedly trips, there is a reason. There is either an overcurrent, a short to ground or an equipment malfunction. All are dangerous conditions.

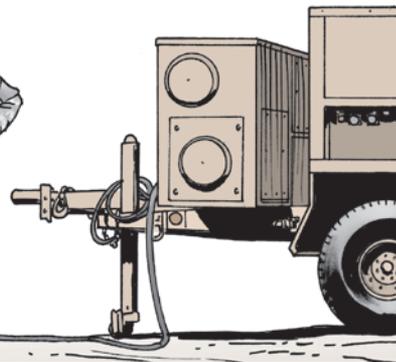
ONE OTHER TIP: OPENING A GROUND CIRCUIT DOES **NOT** CURE A CIRCUIT BREAKER TRIPPING PROBLEM.

IT JUST CREATES ANOTHER PROBLEM...A HAZARDOUS ONE.



WHEN YOU WORK WITH ELECTRICAL SYSTEMS... WHETHER IT'S MOBILE POWER OR FIXED INSTALLATIONS...**NEVER** TAKE NOMINAL VOLTAGE FOR GRANTED.

ALL SOLDIERS ARE RESPONSIBLE FOR LOOKING OVER ELECTRICAL EQUIPMENT AND SPOTTING PROBLEMS.



QUALIFIED SOLDIERS **MUST** VERIFY VOLTAGE, GOOD GROUNDING, GOOD WIRING AND GOOD BONDING.

THEY **MUST ALSO** MAKE SURE ALL ELECTRICAL SAFETY PROCEDURES ARE FOLLOWED.



FOR MORE INFORMATION, GET CECOM PAMPHLET TR 98-G, **EARTH GROUNDING AND BONDING**.

CONTACT CECOM DIRECTORATE FOR SAFETY AT DGN 648-3812, (443) 395-3812, FAX (443) 395-3836 OR EMAIL: usarmy.APG.cecom.mbx.amsel-sf@mail.mil

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