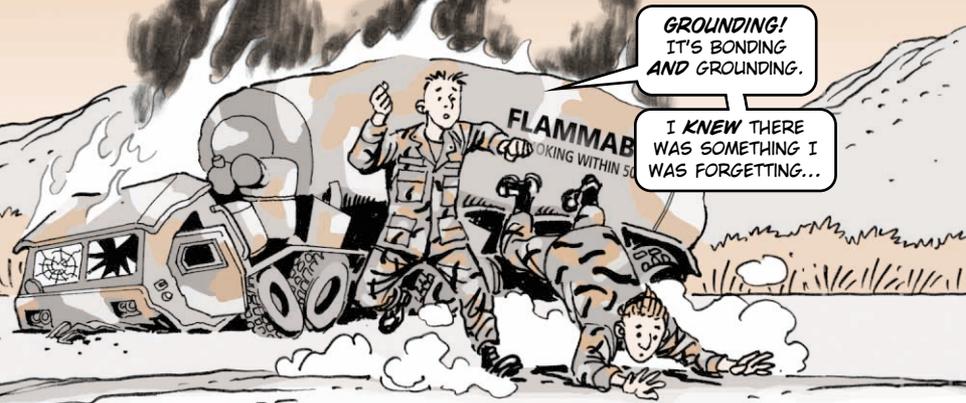


Sound Ground Lowdown



More than one eyebrow will hit the hairline if a spark occurs during a fuel-loading or refueling operation.

Where does that spark come from? Static electricity.

This is the same kind of electricity you feel when you walk on a carpet and reach for a metal object or touch another person.

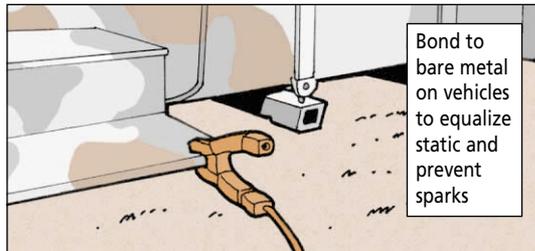
Static electricity also comes from the friction of fuel flowing through a hose or fuel falling through the air. As the static charge builds, it tries to jump across any gap separating it from other parts of the system.

If there are fuel vapors in the gap when a spark flashes across—KA-BLAM—that's all she wrote!!

You can't prevent static, but you can prevent it from arcing or sparking with bonding and grounding.

Set a Bonding Path

Bonding is connecting a wire from your tanker to the vehicle you're going to refuel. It equalizes any static electricity on the vehicles. You can also bond vehicles by grounding each to the same ground point.

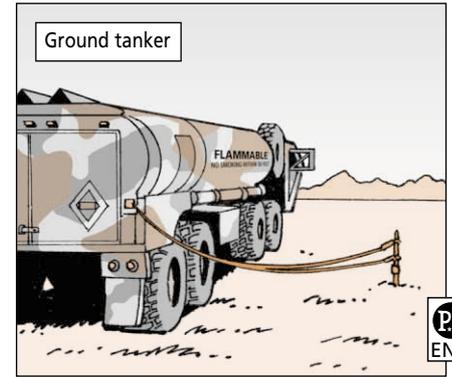


Grounding

Grounding is hooking up a vehicle to a ground rod so that static will flow into the earth. You can drive a rod into the ground and connect a ground strap from the vehicle to it, or you can hook the strap onto a water pipe or other grounded metal.

That should keep a spark from turning into an explosion or fire.

For more on grounding, see your vehicle operator's TM and FM 10-67-1, *Concepts and Equipment of Petroleum Operations*.



FMTVs...

BACK-UP HYDRAULIC PUMP



Water, ice and snow play havoc with your FMTV's back-up hydraulic pump. These elements cause the pump's cylinder rod to rust. Rust tears the pump's seals, causing 'em to leak. Enough rust and corrosion cause the pump to stay stuck—that's not good when you need to use it.

All FMTVs have the manually operated back-up hydraulic pump. If the powered hydraulic system fails, this pump provides the hydraulic pressure needed to use the cab tilt, suspension compression and spare tire lowering and raising mechanism.

So do the hydraulic pump a favor. Exercise it every month. Exercising the pump keeps its seals lubricated.