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SAFE OPERATING PROCEDURES

Jump Starting

SOP 11E-7

Hazard Review		
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Fire	Moving Traffic	Corrosive Acid
Electrical Shock	Eye Injury	Parking
Toxic Materials	Explosive Gases	Slip, Trip and Fall

Required Personal Protective Equipment (PPE)		
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Safety Shoes	Safety Glasses/Goggles	Gloves
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1. Improper procedures or techniques may result in personal injury and/or damage to the electrical system or computer components.
2. Employee **MUST COMPLETE BATTERY TRAINING** before jump starting equipment.
3. Is the vehicle in a safe location to be jump started? All vehicles must be in park/neutral with parking brakes applied.
4. If the battery is distorted/deformed, cracked, leaking, or missing a vent cap, **DO NOT** jump start, call for assistance.
5. Safety glasses/goggles and gloves are required.
6. When working at night, have adequate lighting available.
7. Avoid leaning over the battery whenever possible.
8. Do not expose the battery to open flames or sparks (**NO SMOKING**).
9. Be sure any batteries that have filler caps are properly filled with fluid.
10. Do not allow battery acid to contact eyes or skin.
11. Both discharged and charged batteries must be of the same voltage.
12. Do not stand between vehicles.
13. Use proper procedure in accordance with the operator's manual. Use remote jump-start terminals if equipped. If no special instructions apply, proceed as follows for negative grounded batteries:
 - Make the jumper connections:
 - ❖ Connect one end of the red jumper cable to the positive (+) terminal of the booster battery and the opposite end to the positive (+) terminal of the discharged battery
 - ❖ Connect one end of the black jumper cable to the negative (-) terminal of the booster battery and the opposite end to an engine bolthead or good metal contact on the vehicle to be started, not to the negative battery terminal of the discharged battery
 - ❖ Check the cables to make sure they will not be in the way of moving parts when the vehicle is started
 - ❖ Start the engine of the vehicle with the good battery and run it at a moderate speed
 - ❖ Start the engine of the vehicle with the discharged battery
 - ❖ Remove all cables in reverse sequence. Begin by removing the cable from the engine of the vehicle that had the discharged battery.
14. Keep hands and equipment from all moving parts, belts, machinery, etc.
15. Never use external heat to aid in starting equipment when volatile materials are present.