

You may wish to equip the shelter like our mobile shelter display. That shelter has two 12 volt, 30 watt fluorescent lights which light it very brightly for normal use. It also has two 12 volt, 3 watt lights for emergency use. These are all connected to the RV charging system through separate switches. If you run all of these lights from the continuously charged batteries and make use of the bright lights during normal times, these lights will serve as a continual check of your 12 volt emergency system.

In a small shelter with a few occupants this 12 volt system may be expanded also to run a ventilation fan. The system described here for lights will be sufficient for ventilation, too, with the addition of an appropriate fan motor and more batteries. We are experimenting with this and will report on it in a later newsletter.

If you add to this system a single solar panel as described in the Volume II, Number 4, July 1988 issue of this newsletter, you will be able to slowly recharge your system post-attack. In the display shelter, we stored the panel against the ceiling inside the shelter. When the outside environment is safe, the panel is put outside and connected to the charging system by a wire through the entryway. This solar panel assures a long term source of 12 volt power for starting an occasional vehicle, powering a small radio, or other limited uses.

One 100 amp-hour, 12 volt battery and a light and spare bulbs sufficient for two weeks (assuming that you remember to charge the battery periodically with your \$30 auto battery charger) costs about \$100. The larger 12 volt system with the RV charger, lights, batteries, solar panel, wire, and switches costs about \$600.

Unless you are building a very large shelter for many occupants or unless you have other reasons for independent power, you do not need to consider a fuel powered generating system. If you do, the fuel of choice for safety and long term storage is diesel. Do not, however, put in a fuel powered generating system primarily for purposes of lighting. It is entirely unnecessary.

If you do build a fuel powered system, **do not put the generator or the fuel inside your shelter.** Put them a safe distance away in a separate shelter. The Soviets and Swiss do put fuel powered generators inside large shelters. They are always, however, carefully enclosed in a separate room of the shelter with sealed doors and separate ventilation systems. In effect, in these expensive concrete shelters, the generator is in a separate shelter.

JANE ORIENT VIDEOTAPE FOR CHILDREN

This is a video tape which was produced along with Dr. Orient's *Emergency Medicine* video presentation and the *Nuclear War Survival Skills* video series. Editing and reproduction are now completed, and the tape is available for \$29.50.

The tape shows a classroom session in which Dr. Orient talks with school children about nuclear war. She makes a classroom presentation and answers spontaneous questions from the students. It was made during a regular session of a small private Christian school in Grants Pass, Oregon.