

operator to be on the site past the next hour interval. The objective is to have all of the hourly instrumentation measurements made during FWD testing contained in the upload file. This prevents the loss of these data due to any unforeseen circumstances that can occur between site visits.

Instructions provided in the CR10 manual indicate that lead acid batteries should be recharged prior to dropping below 11.76 volts. If the present voltage of a battery in the PS12 power supply is 11.80 volts or below, it must be replaced. When it becomes necessary to replace a battery, the following procedure **MUST** be followed:

- Do not turn the PS12LA's power switch OFF; leave it in the ON position.
- Connect an external 12V battery to the port labeled EXT with the supplied 1.5 m (5 ft) cable.
- Remove the old battery from the PS12 holder and remove the connector from the INT port.
- Replace the old battery with a new or recently charged lead acid battery.
- Make sure the power connector for the new or recently charged lead acid battery is secured in the port labeled INT once again.
- Remove the external battery from the EXT port.

- Notes: (1) The PS12LA has two connectors labeled INT and EXT. These are for connecting the internal (power supply) battery and an external battery, respectively. A 1.5 m (5 ft) cable, with connector, is included with the power supply for connection to an external battery.
- (2) Do not connect two batteries simultaneously to the INT and EXT ports without one of the batteries connected being diode protected. Otherwise, it is the same as connecting two batteries in parallel, which causes one battery to drop voltage and the other to raise voltage. Alkaline batteries connected to the external port must have a diode in series to block charging, which could cause an explosion.

When the above procedure is followed, continuous power is supplied to the CR10 datalogger and the ONSITE program does not have to be reset.

Prepared by: Aramis Lopez, Jr.

Approved by:

Paul Teng
Chief, LTPP Division