"Wireless" Traffic Control Solutions

APPLICATION: *High Water Flasher Program*
LOCATION: Maricopa County, Arizona U.S.A.

Description

Maricopa County Department of Transportation (MCDOT) which encompasses the Phoenix area, has launched a high-water flasher program to warn motorists of dangerous conditions at unbridged wash crossings.

Solar Traffic Controls has designed solar-powered flasher systems to interface with MCDOT's ALERT flood control radio network. Flashers will be turned on and off remotely, based on stream flow and depth data received at the Maricopa County Flood Control management center. The flashers include interface capability with the radio which provides feedback on the status of the system including alarms for low battery and open door.

The STC flasher system includes four lamps; the lower set indicating the possibility of flooded conditions. The upper set of lamps are activated to indicate conditions are unsafe for crossing. The systems include controls which feature an LCD screen enabling the user to determine the current status of the equipment.

The Maricopa County Flood Control District operates a flood threat recognition system called ALERT (Automated Local Evaluation in Real Time). ALERT data are collected by rain and stream gauges. The gauge data are sent by radio waves back to the base station at the District; then collected and transferred instantaneously, allowing the staff to relay the readings to the National Weather Service, the County Department of Emergency Management, and local dam operators.

For more information, please visit
www.fcd.maricopa.gov/Services/ALERT/Products.asp and click on
"MCDOT Flooded Roadway Info.Map"

continued on next page

Take these steps to insure the success of your solar-powered project:

1. Location - identify the site of the application; for example, the nearest town, village or city and state.
2. Load - specify the number and size of lamps, timers or other controls (anything which draws power).
3. Duty Cycle - determine how many hours per day and which days per week the load will be drawing power.

Go to "Send us your requirements" at www.SolarTrafficControls.com/support/requirements.php for more details.

Solar Power: a free source of energy

STC's solar-powered systems are designed for quick and easy installation in the field. Our careful front-end engineering minimizes your installation costs and provides years of trouble-free operation. The standard solar power system includes the solar array, system enclosure with all the necessary electronics, color-coded wiring harnesses, sealed batteries and full documentation. DC LED lamp kits can also be purchased. These include the LED beacon, lamp housing and mounting hardware.

STC Systems are Cost Effective

Our solar flasher systems allow you to stretch your budget to obtain the traffic safety devices you need at affordable prices. Most systems are equivalent to the cost of obtaining an AC power drop. Battery life is typically three to six years; less expensive than grid electricity for the same period of time.

Solar Traffic Controls (STC) provides solar-powered traffic control systems for city, state and federal DOTs; police, firefighting and public works departments; facility maintenance and plant safety industries. Our primary products are solar-powered flashing beacon systems used for school zones and 24-hour applications. We also supply specialized flasher systems using environmental sensors and custom communications packages to control the flashing beacon systems. Our product spectrum also includes wireless power systems for ITS, EMS and HAR. STC's products and services are sold through a network of regional distributors who offer technical support for your project.

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