

SL-BR Bridge Lights

Sealite Chosen by NC DOT for Remotely Monitored GSM
Solar Bridge Lighting

North Carolina



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Project Overview

Application:

Lighting the Tar Heel Bridge which stretches over the Cape Fear River in a remote, south eastern NC location (2 hrs from Wilmington, NC)

Note: The Tar Heel Bridge is a new, replacement bridge.

Product:

SL-BR (green & red), GSM monitoring

Date:

July 2016

Location:

Tar Heel, North Carolina



North Carolina is a state with vast topographical challenges. It boasts a landscape that extends from sea level to mountainous (the Appalachian Mountains, containing the highest point in North America east of the Mississippi). As such, operation, maintenance, and installation of infrastructure can be time consuming, expensive, and difficult. Various levels of equipment and manpower are necessary to reach, repair or maintain such infrastructure, depending on locale.

Background

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Challenges

The NC DOT expends significant funds dispatching crews to remote locations to monitor the operation of bridge lighting. As the new Tar Heel Bridge was being built/replacing the prior bridge, the NC DOT was looking for alternatives to lighting that needed conduit to ease installation time and expense, as well as being able to remotely monitor the lights.

Additionally, with the vast topography, weather conditions can widely vary, necessitating the need for additional inspections following severe weather incidents over and above the routine checks.

Solution

GSM monitoring of the lights allows the NCDOT to remotely monitor all operating conditions from their offices, which are about two hours away. Also, as the lights are solar, the installation is much easier than if the lights had to be hardwired.

Both of these product attributes saves the DOT NC money in labor costs. Once installed, no special vehicular equipment is needed to reach the lights for status check. This saves the NCDOT additional costs in both labor and operation.



“The NC DOT chose bridge lights from Sealite because the taxpayers of North Carolina will realize both initial and ongoing monetary savings from their purchase. Since the lights can be monitored right from our computers and phones, we no longer have the travel and labor expenses of sending crews long distances to gather the required operational information.

Also, since the lights are solar powered, we no longer need to worry about disruptions in utility services after severe weather incidents. The installation was easy since it did not require an electrical service, conduit or wiring to be run. The Sealite bridge light system is the best choice for this North Carolina bridge and the taxpayers of our state.”

John Lange, Electronics Technician-Structures Management



All Sealite products are manufactured to exacting standards under strict quality control procedures. Sealite's commitment to research and development, investing in modern equipment and advanced manufacturing procedures has made us an industry leader in solar marine lighting.

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