

Remotely Monitored Bridge Lights

GSM Solar Bridge Lighting

North Carolina, United States



Sealite[®]
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Sealite, international designer
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Aids to Navigation systems

Project Overview

Application:

Lighting the Tar Heel Bridge which stretches over the Cape Fear River in a remote, southeastern 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 Department of Transportation installs Sealite's LED, solar powered, GSM monitored Bridge Lights on its new Tar Heel replacement Bridge

Background

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). Due to the varied landscape, weather conditions can change frequently and severe weather incidents are common. Such conditions make operations, maintenance and installation of infrastructure time-consuming, expensive, and difficult. Various levels of equipment and manpower are necessary to reach, repair or maintain such infrastructure, depending on locale.

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 lighting alternatives.

They required lighting that did not require the installation of expensive electrical cabling and conduit. They also sought remote operation and monitoring to limit on-site operational status checks, necessary following severe weather incidents.

Solution

The installation of Sealite's solar powered SL-BR Bridge Lights removed the need to run electrical conduit, making for an easier installation. GSM monitoring allowed the NCDOT to remotely monitor light operating conditions from their offices, approximately two hours away. Diagnostics such as lantern status, battery condition and GPS positioning are sent via email, text, or viewed on Sealite's secure web portal, providing current light status reports.

Once installed, no special vehicular equipment was needed to reach the lights for status checks, saving 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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