Sealite®

CASE STUDY

Sectored LED Port Entry Light with GSM Remote Monitoring and Control

Pulau Semakau, Singapore

www.sealite.com

We believe technology improves navigation™

Project Overview

Application
Precision Sectored Port Entry Light

Product
SL-PEL-05-GSM

Location
Singapore

Date
October 2017

With class-leading LED technologies, the Sealite PEL does not require focusing or re-lamping while in service.

Background

Shell Singapore operates a refinery plant in Pulau Bukom, an island that is about 5km south of the Singapore Mainland. To aid vessels entering the refinery, they had sited a port entry light (PEL) on a nearby island. Troubled by the procurement of replacement lamps as well as the aging of the hardware, Shell have to invest a lot of time and effort to ensure that the PEL was continually in working condition.

Project Overview

With the introduction of the Sealite 5 degree sectored LED port entry light into the aids to navigation market, Shell expressed interest in replacing the old PEL due to its small size and power efficiencies. With class-leading LED technologies, the Sealite PEL does not require focusing or re-lamping while in service, there are no moving parts and is a low powered option providing over 500,000cd at 30watts. Shell chose Sealite's PEL to replace their existing light due to the huge cost saving potential the company would receive, therefore eliminating the need for inventory of incandescent light bulbs. In addition, Shell now don't have to schedule manpower to perform the replacement and corrective maintenance, saving much needed maintenance costs.

Shell now no longer have to stock up on incandescent light bulbs which eliminates the need for inventory and has a huge cost saving benefit to the company.

The Outcome

The Sealite 5 degree PEL consists of ten LEDs to create ten precise sectors, with each sector giving an accuracy of 0.5 degrees (horizontal). Coupled with the optional GSM Remote Monitoring and Control, Shell is able to get daily status of the PEL-05 automatically on their mobile devices via the SMS feature. Shell is also able to view and control the operation of the lantern, giving 24 x 7 live updates to the operators without having to leave the comfort of their office or home. The added benefit of historical data (30 days) showing the status of the PEL was extremely helpful in planning any preventive maintenance work on the PEL system. In conclusion Shell now have a reliable light that will only need to be checked once a year as part of their standard maintenance regime.

Benefits

- LED technology, rated lifespan of LED is more than 50,000 hours
- Eliminate the cost of inventory for spare incandescent light bulbs
- Low power consumption which reduces the size of the solar power system required
- Programmable by user via our supplied lantern configuration software
- Solid state, no moving parts resulting in reduced maintenance
- GSM remote monitoring and control from their mobiles devices

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. By choosing Sealite you can rest assured you have chosen the very best.

- Experienced & Trained Personnel
- Worldwide Distribution Team
- Agile Manufacturing
- Product Innovation
- Precision Construction
- Total Quality Management
- ISO9001:2015
- Rapid Turnaround

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