Tideland Signal Corporation (Tideland) supplied, installed and commissioned new LED lanterns for the Dartford Bridge Crossing. Connect Plus Services (CPS) acquired Tideland to assume the role of designer, PSDP, PSCS, and supplier under the construction regulations - Safety, Health and Welfare at Work (Construction) Regulations 2013. The project requirement was to replace the Mid Span lights on the North & South side of the Bridge along with the Caisson lights Port & Starboard. Modifications to both South East/North West caisson & North/ South Mid Span Light panels were required to allow for the new LED lanterns to work within the current SCADA System arrangement.

Tideland Signal provided a total solution concept for this project from design through to implementation. Two Tideland engineers were dedicated to this project that took a total of 4 weeks. Connect Plus Services managed to close the lanes on the North & South bound traffic to enable Tideland engineers to get to the Mid Span lights and also assisted in the hire of a boat to travel between the Port & Starboard Caisson lights.

The order included:
- Caisson Lights
- 2 off Nova-250 Single Tier
- 2 off Nova-65
- Mid Span Lights
- 4 off Nova-250 Single Tier
- 4 off Nova-65

**BENEFITS**

- Unmatched lantern efficiency
- First-Class project management
- Professional customer care
- Solution based lighting deliverables
- Seamless integration with existing SCADA system
- Bridge lighting experience to meet the the specific built-out needs
- Best in class, certified, and IALA compliant lantern solutions
CPS was the managing agents for the Dartford River Crossing for Highways England (HE). CPS has 24 years left on their 30 yr contract and as a part of their Asset Management Forward Plan it was decided to replace the navigation lamps to take advantage of the new technology available (LED’s). The existing lamp units had been in place for over 25 years and although they were serviceable and functioned well the replacement lamps were found to be expensive to replace, the new technology offered was found to be a cost effective strategy going forward for the remainder of the 30 year contract.

Tideland provided product and service solutions customised by client needs and stayed on-budget and on-schedule. This project demanded a reliable partner in which would work diligently and responsibly to ensure aids to navigation (AtoN) equipment was configured to meet the exact requirement of the application selected for this project. Tideland met the demand and delivered products for this project that integrated fully into the existing SCADA system and demonstrated capabilities of bespoke engineering by designing and manufacturing the blanking shields to fit the Nova-65 and Nova-250.

Project At A Glance