CASE STUDY

Port of Abidjan, Ivory-Coast

Tideland Signal Corporation (Tideland) supplied the Port Authority of Abidjan (PAA) with marine aids to navigation (AtoN) solutions that will provide the chief port of the country with reliable and accurate performance that will endure the harsh environment for multiple decades. The PAA project provided Tideland the opportunity to present a 3m diameter rotationally-moulded polyethylene buoy (TFL 3.0) designed for offshore, port and coastal applications.

Tideland’s TFL 3.0 buoy was the ideal choice due to its enhanced poly-tower which was designed to provide a large visual area for navaid recognition along with its focal plane height option of up to 6000mm. The TFL 3.0 is a lightweight polyethylene alternative to traditional steel buoys that delivers high performance and promotes longevity while reducing the long term maintenance expense of floating aids to navigation. One buoy was fitted with best in class, Nova-65 lantern and the industry leader for reliability and accuracy, SeaBeacon® 2 System 6 racon. Two additional buoys were fitted with remote monitoring capabilities (V-20 Informer™) and the Nova-65 lantern. All TFL 3.0 buoys included top marks, solar panels, battery box and battery packs, and an integrated ladder for maintenance requirements.

The order included:
- 1 - TFL 3.0 buoy with SeaBeacon® 2 System 6 and Nova-65
- 2 - TFL 3.0 buoy with V-20 Informer™ (AIS) and Nova-65

**BENEFITS**

- UV-15 stabilised, virgin polyethylene and a nominal 18mm wall thickness with each quadrant being manufactured using an innovative sandwich polyethylene construction, making the buoy virtually unsinkable.
- Four (4) rotationally-moulded quadrants to form a robust 3 meter wide float section.
- A polyethylene tube runs through the centre of the assembly, to which the tower, quadrants and top-section is fastened making this buoy easy to assemble, generally in less than 60 minutes.

**Client/Region:**
Port Authority of Abidjan (PAA), Africa

**Project Name:**
Upgrade of AtoN in Abidjan Port

**Product/Service Delivery:**
TFL-3.0 Polyethylene Buoys, Nova-65 lanterns, V-20 Informers™ and SeaBeacon® 2 System 6 racon
The TFL 3.0 is available in all approved IALA colours and has a life expectancy of more than 20 years.

Almost entirely constructed in plastic, this buoy requires minimal maintenance and is 100% recyclable.

TFL-3.0 with safe-water markings with a Nova-65 lantern with an 8NM range and a SeaBeacon® 2 System 6 racon.

A large counterweight offers exceptional stability in a variety of exposed regions.

Options include top marks, solar panels, battery box and batter pack, AIS AtoN, racon, along with a buoy monitoring system utilising VHF, GSM, OR satellite communication links.

An integrated ladder runs vertically up the tower to the top of the platform for maintenance requirements.