



Decommissioning Marine Marking Solutions



Decommissioning – Control & Monitoring Solutions

Solutions/Compliant/Economic

We understand the economic environment of decommissioning projects. You need a cost effective, reliable and available AtoN package to meet your regulatory and operational needs; a package that delivers the continuing confidence post abandonment and on to removal stage. Sabik's products are rigorously designed and tested prior to manufacturing, nearly a third of our staff are involved in product design. Using all of our 30 years' of experience we have built the latest range of decommissioning AtoN's to the exacting standards required by one of the world's most demanding industry.

Developed to occupy minimal footprint, the compact single lift design allows deployment to the most difficult platform locations whilst affording mobility within constricted deck space.

Options

Depending of the status of the installation Sabik can offer a solution for pre or post CoP condition; Atex approved, zone 1 ready packages are available for worldwide deployment.

All packages are available as standard with GPS synchronisation for easy regulatory compliance and can be used operationally as either standalone units or combined utilising a central control panel if preferred.

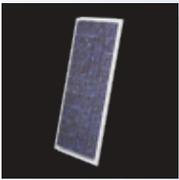
Operators have a number of choices that can be tailored to suit the project dynamics; short/long term lease, purchase and buyback option. Suitable for any installation, fixed or mobile and particularly cost effective for Drilling/Jack-Up vessels in Hot/Cold lay-up.



LED 350EX 5, 10, 15 NM – Marine lantern for safe and hazardous area



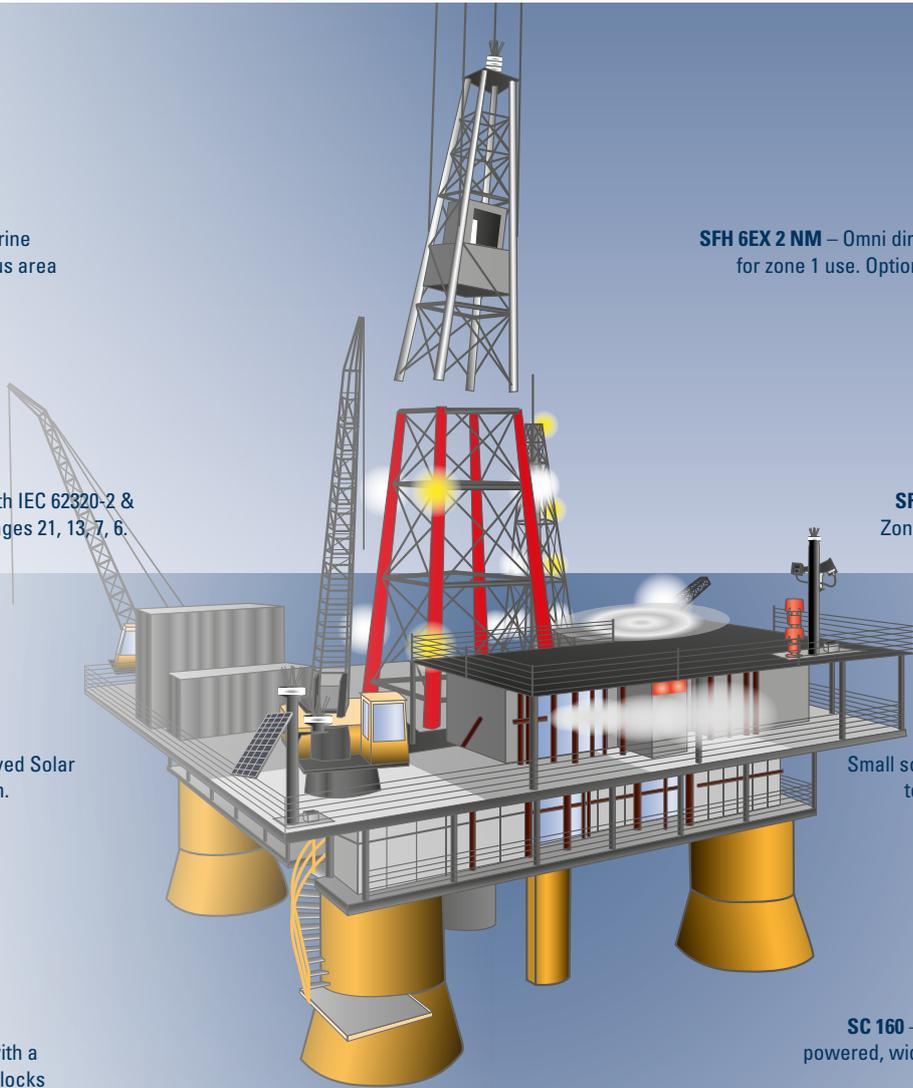
AIS Unit – Fully compliant with IEC 62320-2 & IALA A126. Type 1 & 3, messages 21, 13, 7, 6.



STSM – range of Atex approved Solar Panels, polycrystalline silicon.



ATEX – approved zone 1 & 2 Ex battery enclosure, fitted with a range of VRLA or NiCad cellblocks



SFH 6EX 2 NM – Omni directional Fog Signal, Suitable for zone 1 use. Optional 0,5 NM version available.



SFD 7100EX – Visibility Sensor. Zone 1 use, range 30 m to 16 km.



Small scale, temporary **AtoN station** to suit safe & hazardous use.



SC 160 – Self contained 10 NM solar powered, wide range of options available

Decommissioning Marking Solutions Packaged Skids

As a world leading supplier of Aids to Navigation (AtoN's) and marine obstruction marking products, Sabik can offer a range of customised and bespoke solutions for either temporary decommissioning projects, or long term abandonment strategies. Using the latest state of the art, optical technology Sabik's LED marine products are exceptionally low power and are therefore particularly suitable for solar applications where platform power has or is planned to be removed. With advanced remote monitoring capability, unmanned assets can be safely and confidently monitored for continued compliance and operational security from any location via any web enabled device. Designed with decommissioning procedures in mind, Sabik's solarised AtoN skids are light weight, compact and

versatile for ease of use on and around an installation. Whichever deconstruction method is utilised, piece small, single lift, we can supply a cost effective, reliable and time efficient marking solution for any decommissioning project, regardless of geographical territory or environmental condition.

- Temporary or Permanent Solutions.
- Remote Monitoring.
- Safe & Hazardous Area.
- Low Power Solar Applications.
- Compact & Flexible Design.
- Small Footprint.



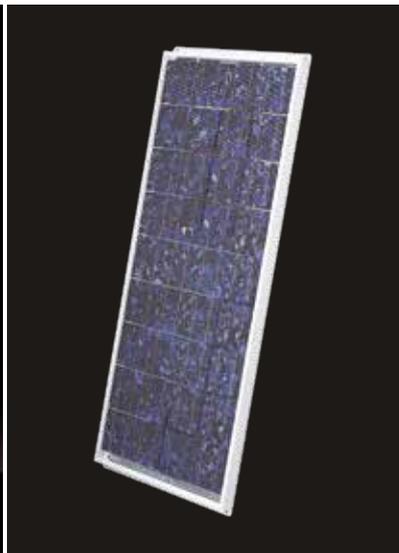
Company Overview

Expertise

Sabik Marine is a global operating division of Carmanah Technologies Corporation specialising in the development and production of LED signals for marine and transportation sectors. For over 30 years, Sabik products and services have provided safety and enhanced protection for marine infrastructure and mariners alike. With a worldwide presence now extending to Canada, Germany, Finland, Singapore, Russia and UK, Sabik Marine continues to deliver high quality customer driven solutions for the Offshore and Marine sectors. With an extensive, but well defined product portfolio, Sabik Marine can offer a range of temporary and permanent marine marking solutions for offshore fixed and mobile structures using some of the most technically advanced products available in the industry.

Experience and knowledge gained over many years, has enabled Sabik to produce a range of high quality, extremely low power marine lanterns which boast unrivalled power efficiency, making them particularly suitable for decommissioning and abandonment projects. Full compliance with geographical regulatory requirements as standard.

We see sustainability as treating the environment and our limited natural resources responsibly. This goes hand in hand with strategically directed investment in research and development together with a responsible approach to our employees, our business partners and particularly our customers. We base our future success of the Sabik Marine on this fundamental policy. We maintain and constantly improve our Integrated Management System (IMS) in accordance with ISO, 9001, 14001 & 18001 standards.



Product Solutions Innovation

Sabik's class leading and innovative Lightguard monitoring system offers operators the ability to remotely monitor a full range of signals and alarms with confidence from any worldwide location. Monitoring is achieved via GSM or Satellite to any PC, laptop or web enabled tablet/iphone.

Lightguard is a low power terminal which offers various analogue and digital outputs for parameter monitoring and current sense channels for instantaneous status. Supplied ready configured and pre-installed firmware, if any changes are required its user friendly web based Windows software makes this a simple operation.

With over 30 years of experience, Sabik has been at the forefront of technical innovation; using Sabik's modular NAI AtoN Interface, it provides a unique centralised operating & control for a range of AtoNs based on a standard 5 wire field bus, providing a simple connection with any central SCADA monitoring system.

With low power consumption, the multiple channel option provides for easy expansion and adaption to suit changes in operational requirement. Suitable for both safe area and hazardous area applications, the NAI controller can be configured for a variety of platform layouts and marine marking criteria. When used with Sabik's Lightguard remote monitoring system you have a powerful and versatile AtoN decommissioning package from a trusted partner.

- Easy integration.
- Convenient remote monitoring.
- Clear and concise interface.
- OS mobile app.
- Reliable and secure.



Sabik

World Wide Capabilities

Sabik Marine is a world leading manufacturer of marine Aids to Navigation and visual signals for transportation.

- Ports and Harbours
- Oil & Gas
- Decommissioning



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