

# DEEPWATER

## RETROBUOY™ CATHODIC-PROTECTION LIFE-EXTENSION FOR LARGE STRUCTURES & FPSOs

**RetroBuoy is the most reliable impressed-current cathodic protection retrofit system on the market.**

RetroBuoy is a high-capacity impressed-current cathodic protection system, designed primarily as a retrofit for existing structures. It utilizes impressed-current titanium-anode rods housed in buoyant floats. This configuration keeps the anodes in constant contact with seawater, maximizing the efficiency of the cathodic protection they deliver. The sled that anchors the buoys is placed away from the targeted structure, helping distribute the cathodic protection current more evenly over larger areas. Floating platforms, complex steel structures (such as fixed jackets), and structures with many pilings in a tight geometry (such as port facilities or loading jetties) benefit immensely from this type of technology.

### Maximum efficiency

To maintain appropriate levels of protection, individual RetroBuoy anode sleds can be rated anywhere from 150 to 500 amps. The compact size and remote location of the RetroBuoy on the seabed simplifies the installation procedure and increases the cost-effectiveness of the retrofit. As installation costs typically dominate a large offshore cathodic-protection upgrade, RetroBuoy provides the lowest installed cost per ampere/year of any CP system available.

### Transformer rectifier(s) and cabling

As with all impressed-current CP systems, the RetroBuoy requires a transformer rectifier topside and cabling to the sea floor. Routing the cable can be done in a variety of ways, depending on the needs of each project. Several stock scenarios exist, and for situations that require new solutions, our team of N.A.C.E.-certified corrosion engineers and CP designers can adapt existing installation procedures. In addition, our partnerships with key transformer / rectifier manufacturers in the US and UK allow us to provide complete systems in compliance with any local electrical requirements and safety codes.

### Superior anode efficiency

The use of MMO-activated titanium electrodes allows the anode sled to be operated at very high current output. This is possible because the anode electrode elements are suspended in buoyant modules, which ensure that they remain surrounded by clean seawater. Silted anodes perform much less efficiently.

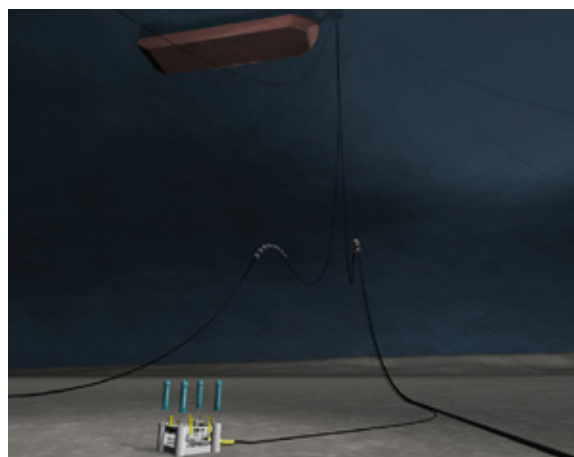
### Installed all over the world

The oil-filled, pressure-compensated electrical junction box that houses the electrode cables allows the system to operate efficiently at any depth. The RetroBuoy is suited for any environment around the world. Currently there are active systems in the Gulf of Mexico, the Caribbean Sea, the South China Sea, the North Sea, West Africa, Canada, and many other locations.

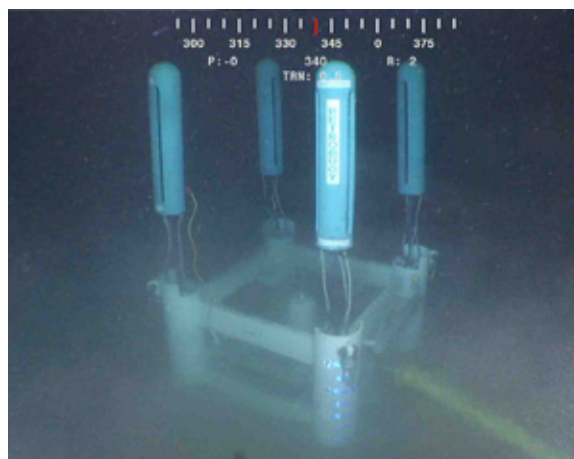
More info at [www.stoprust.com](http://www.stoprust.com)



**RETROBUOY**  
RetroBuoy during deployment in the North Sea.



**REMOTE ANODE SYSTEM**  
RetroBuoy is a remote anode system placed a strategic distance away (FPSO).



**BUOYANT FLOATS**  
Once the sled is placed on the sea floor, the buoyant floats are deployed.