

OCEANOGRAPHIC RESEARCH VESSEL GENERATOR REPAIR

A FLANDERS CUSTOMER SUCCESS STORY

MARINE APPLICATION

Customer Problem

Atlantis is one of the most sophisticated oceanographic research vessels on the planet. The ship is owned by the U.S. Navy and operated by Woods Hole Oceanographic Institute (WHOI). The *Atlantis* was scheduled to begin an extended voyage and needed its full capabilities to ensure a successful mission. Just three days before leaving port, an inspection revealed that a drive-end bearing was about to fail on one of the main generators. Having become WHOI's go-to company for such repairs, FLANDERS was contacted and sent a team of electrical rotating experts to Port Everglades in Fort Lauderdale, Florida.

FLANDERS' Solution

FLANDERS was able to remove the inner bearing, machine the housing, replace the failing bearing, reinstall the housing and successfully restore the critical generator to maximum output in the allotted three days. WHOI acknowledged the job would normally take at least a full week. By responding quickly and resolving the problem, FLANDERS helped *Atlantis* leave port on schedule, which spared WHOI lost time and significant expense had the mission's departure been delayed for repairs.

FLANDERS has been called upon to complete several successful repairs to *Atlantis*, including dispatching Steve Scherzinger, FLANDERS Sr. Field Engineer, and his crew to Greece to repair and service electrical rotating equipment on the ship.

Atlantis Backstory:

You may recognize *Atlantis* as the support ship for "Alvin," the manned mini-sub that brought us the first historic, breathtaking images of the Titanic. *Atlantis* was specifically designed to carry "Alvin" and other vehicles of the National Deep Submergence Facility. Although owned by the U.S. Navy, *Atlantis* was delivered to Woods Hole Oceanographic Institute in 1997. A crew of 36, which includes science technicians and deep submergence group members, and a scientific party of 24 can remain at sea on the *Atlantis* for as long as 60 days at a stretch. The ship currently operates in all of the world's oceans and is rarely seen in port. With its six science labs and storage spaces, precision navigation systems, seafloor mapping sonar and satellite communications capabilities, *Atlantis* has most recently spent its time exploring underwater volcanoes and hydrothermal vents in the Pacific Ocean.

Products Used:



Warner Williams,
FLANDERS Technical
Project Manager



Steve Scherzinger,
FLANDERS
Sr. Field Engineer



Research Vessel
Atlantis for Woods
Hole Oceanographic
Institute in port at
Port Everglades in
Fort Lauderdale, FL