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## Power Innovations is Selected to Meet Oceaneering's Critical Power Quality Needs

By [Via Press Release](#), 1.7.2008 MT

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Power Innovations' Uninterruptible Power Quality (UPQ) technology was chosen by Oceaneering to power its Blowout Preventers (BOP). The custom built UPQ system, recently delivered, exceeded Oceaneering's requirements for power quality.

The oil industry, including Oceaneering, must meet specific requirements from the American Petroleum Institute (API). API requires that all systems must have stable, reliable power. Factors examined include reliability, quality, production capability, MTBF (Mean Time Before Failure), service life, and system architecture.

"The power delivered to us is dirty, unstable and unreliable. The UPQ system is the heart of the BOP. It pumps clean power that is critically needed to keep our control system functioning with precision throughout the drilling and sub-sea operations," says Joe Alcalá, Project Engineer for Oceaneering.

The UPQ system is being used as an integrated subsystem of the Blowout Preventer (BOP) controls. The system is extremely complex, with some of the electronics below the surface. Power is pumped through an umbilical to the sub-sea electronics module. The UPQ system was custom designed to meet Oceaneering's precise needs. The customizations included power distribution units and break-before-make switches.

BOPs are safety devices that prevent the uncontrolled flow of liquids and gases during well drilling operations. They are large, high pressure-valves that are capable of being remotely controlled, and are the last line of defense to stop an ecological disaster. When the valve is closed, a pressure-tight seal is formed at the top of the well, preventing the fluids from escaping. BOPs protect personnel, property, and equipment at exceedingly high pressures and temperatures. It is critical that they function with precision and that they have a constant power source.

UPQ technology, unique to Power Innovations, is an unprecedented new standard that began with traditional UPS technologies and moved forward to address critical modern power issues. Traditional UPS systems focus on backup power; UPQ technology focuses primarily on the critical issues of power quality and management, while still providing backup when power outages occur.

Launched in 1997, Power Innovations has pioneered a revolutionary set of solutions to generate, store, and manage AC power. Power Innovations' long term strategy includes fully integrated power management and control, storage, and generation for total power independence. Power Innovations' mission is to provide and manage continuous high-quality power in conjunction with, or even independent of, utility services worldwide.

Currently, Power Innovations is providing quality power and management helping forward-thinking companies accomplish this goal through a new class of technology called Uninterruptible Power Quality(UPQ) systems. UPQ technology began with traditional UPS technology and moved forward to address today's critical power quality issues, while still providing back up when power outages occur.

Power Innovations' line of power management products is currently being marketed. The company is involved in the development of a spectrum of solutions for power storage. Currently, Power Innovations offers a variety of alternative generation options. In the near future, Power Innovations plans to introduce the PowerWell,a revolutionary solution for green renewable energy generation.



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