



Na Kika

setting
deepwater
records
in a new era

a supplement to **E&P** and **Oil and Gas Investor**



Experience Counts in Offshore Power Control and Distribution Systems

Point Eight Power's qualified staff and Gulf Coast roots assure no shocks when it comes to leading-edge design, equipment, manufacturing and on-time delivery.

Handling and processing oil and gas flow from five independent fields to a single floating production platform facility and then to shore, involves a high degree of complexity. As a result, **Na Kika** project design engineers did their homework to ensure the control system for electric power generation, transmission, distribution and conversion aboard the project's semisubmersible platform be comprised of leading-edge, highly reliable switchgear and circuit protection equipment.

Point Eight Power, Inc. of Belle Chasse, La., represents an intelligent alternative when special requirements call for custom power system design, assembly and fabrication.

After consulting with Na Kika designers about power system specifications unique to the project, Point Eight project management specialists returned to the company's 70,000 sq-ft (6,300 sq-m) design/manufacturing facility to plan all stages of system component assembly, including control panel fabrication.

Key power control, distribution elements

Point Eight supplied four main power control and distribution assemblies for the Na Kika system:

- one 3,000-A, 350-MVA switchboard transitioned on either side to full- and reduced-voltage motor starters for distributing power to motors up to 5,000 hp;
- five 480-V, 3,200-A, 85-KA low-voltage switchboards. The 85-KA interrupting circuit breakers - among the world's first to be installed on offshore production facilities - were chosen by designers because of the high power generation volumes typical of the Na Kika production platform;
- remote breaker control panels, with detailed design to meet specific Na Kika system requirements, which enable



▲ Pictured above are low voltage distribution boards close coupled to motor control centers built to American Bureau of Shipping standards.

operation of each of the switchboards' circuit breakers from a separate location. This setup, adopted by Shell and BP in consonance with their stringent safety policy, assures that no operator is in direct physical contact with breakers in order to change or energize electrical loads; and

- a discrete interface linking all platform power control and distribution functions with the Na Kika SCADA system.

Qualified, certified staff

Point Eight Power meets all applicable United States and overseas regulatory standards. Equipment dedicated to marine applications can be manufactured to meet American Bureau of Shipping/U.S. Coast Guard, Lloyds of London or DNV standards.

The company's talented and experienced engineering staff has designed and coordinated virtually every type of switchgear, PLC controls, relay logic from 120 VAC to 34 kV. Additionally, the company's mechanical department has created a range of power control/distribution buildings with designs from interlocking panel-type enclosures to crimp-plate steel buildings.

All design and construction stages conducted at Point Eight Power's Belle Chasse manufacturing facility follow a strict ISO-9001:2000 quality control program, and the company has been third-party certified since 1994. Currently, it is certified in engineering design, manufacturing and service of industrial, oil field, utility, government and marine generator control switchboards/switchgear, as well as distribution equipment and motor controls for system voltages from 120 VAC or 120V DC systems, power control/distribution buildings and associated metal products.

With nine underwriter laboratory listings and KEMA certifications for ANSI C37 (medium-voltage switchgear) and IEC 298 (medium-voltage switchgear), Point Eight Power's ultimate priority is to provide a product that not only will meet, but also exceed their customers' expectations with regard to quality, delivery and service. ▼



**POINT EIGHT
POWER**

Controlling the Power You Generate

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