

Client requirement

A one-story, ready-for-use package welded-steel Power Control and Distribution building.



Point Eight supplied a 142-ton Power Control and Distribution (PCD) building complete with HVAC/Pressurization systems; 6 sections of 5KV switchgear close-coupled to 4 sections of 5KV Motor Control Centers; 4 sections of 480V switchgear; and 20 sections of 480V motor-control centers.. Total scope of supply exceeded \$3 million with 12,650 hours invested over 36 weeks of work.

Point Eight Solution

Design and build the specified Power Control and Distribution building with assistance from key partners.

Oil companies go where the oil is. And no matter how remote, Point Eight Power follows when called even if that means to the waters of the southern Atlantic Ocean off Equatorial Guinea, one of the smallest countries in Africa.

In 1995, ExxonMobil discovered the Zafiro field near Equatorial Guinea's island of Bioko, adjacent to the international border with Nigeria. Shortly thereafter, ExxonMobil contracted Ocean Energy Inc. to convert a 270,000-ton oil tanker into the second-largest production ship ever built, the *Zafiro Producer*.

ExxonMobil quickly deployed the massive Floating Production, Storage and Offloading (FPSO) vessel. Soon it was extracting 80,000 barrels a day. When ExxonMobil realized the size of the Zafiro field, it wanted to increase production capacity – without shutting down operations. Over the next few years, expansion and retrofitting projects began.

Point Eight Power, on the recommendation of consulting engineering firm Albert Garaudy & Associates, was brought in to design, build, procure and manage housing for ASI Robicon variable frequency drives as well as medium- and low-voltage equipment that would help distribute and control power to the growing needs of the FPSO.

For the "Mobil Exxon Equatorial Guinea (MEGI) PCD Building" project, Power Eight worked closely with other partners. ECL, Cutler-Hammer, DWD International and Coastal Fire Protection all played important roles in the success of the project.

The building design incorporated an integral blast wall; three H60 fire-rated walls; and an H60 fire-rated roof. In addition, since the *Zafiro Producer* was classified a marine vessel, the building and equipment associated with the package complied with the latest ABS classification requirements for a Floating Offshore Installation (FOI).

Today, the *Zafiro Producer* pulls out 200,000 barrels a day.

Point Eight Power. Controlling the Power You Generate