Sun Engineering Services, Inc. recently completed upgrading the Fire Protection System for an offshore oil production platform in California.

The project included the installation of a new NFPA compliant main firewater pump to feed the existing offshore platform firewater system. The pump used seawater for supply through a 70’ long vertical pump shaft. The pump delivered 2000 gpm and was driven by a 200hp electric motor.

A new structure and deck was installed to support the new pump, motor and control panel. Modifications were made to the firewater piping system and the existing emergency diesel drive fire pump.

The pump shaft was housed in a caisson that was clamped to the platform and extended 30’ below the ocean surface. Underwater divers were used to accurately measure the existing structure below the ocean surface prior to fabrication.

Sun Engineering scope included engineering design, permitting, construction support, and start-up assistance. The design was based on the National Fire Protection NFPA 20 and API standards.