

Abu Qir Thermal Power Plant Intake Structure

Client

Arab Contractors (Osman Ahmed Osman)

Scope of Work

Detailed design
Shop drawing
Quality control (Construction supervision)

Location

Alexandria, Egypt

Types of Activities

Civil works
Communications and security systems
Electrical
Infrastructure
Mechanical
Roads
Wave breaker

Expanding the capacity of the existing Abu Qir Power Plant involved the development of the Abu Qir Thermal Power Plant. Situated on the Mediterranean coast, 20 km east of Alexandria and to the east of the existing Abu Qir Power Plant, it comprised two-650 MW two indoor condensing steam turbine generating units; two outdoor, dual-fuel fired, pressurized furnace steam generators and necessary auxiliary equipment including onsite storage, a natural gas reducing and handling facility, desalination plant for plant make-up water, off-shore structures for plant cooling water intake and discharge, water and wastewater treatment and GIS 500 kV indoor switchyard buildings. While the main fuel is

natural gas, the plant was also designed to run on heavy fuel (Mazout) oil as a backup fuel.

ECG was awarded the quality control for this project which included, quality control for the ready mix concert plant, preparing the quality control plan for the civil works, managing the quality control plan with the auditing boards, correction actions for the NCR and supervised all the works to be sure it matches with the quality control plan. The structure scope of work included the intake structure, intake operation building and discharge to seal well structure.

