



Apollo



Construction of a wastewater treatment plant

Complete solutions that are applied throughout its value chain



SITUATION

Due to the increase in the demand for electricity and the depletion of the water tables in the area, in 2011 the Federal Electricity Commission (CFE) considered expanding the supply of treated black water for two generating plants operating in Tula, Hidalgo.

They were the 'Francisco Pérez Ríos' Thermolectric Power Plant and the 'Tula Combined Cycle' power station. In previous years (2009), Apollo had modernized and rehabilitated the Wastewater Treatment Plant (WWTP) of the Pérez Ríos thermolectric plant. Although its processing capacity was considerably expanded, it was no longer sufficient to meet the current needs of both plants, so CFE decided to build another.

Cost became an ally to go ahead with expansion plans, since operating with treated water costs seven times less than using well water. To these attractive figures was added an estimated return on investment in three and a half years. With several points in favor, in 2011 Apollo was hired to carry out the project, whose scope ranged from design and construction, to commissioning and stabilization of the WWTP.

SOLUTION

The best technological and human resources were integrated to consolidate a plant capable of processing 600 liters per second. The treatment process was made up of an intake, primary sedimentation, biological reactors, secondary sedimentation, chlorination, filtration and distribution of treated black water to a storage tank and cooling towers in both plants.

Apollo consolidated and integrated everything that the project required to complete, including auxiliary and urbanization services. The new facilities have helped to ensure that the supply of electrical energy to the surrounding area is sufficient to meet demand, while optimizing available environmental and economic resources.

For more information, please contact Apollo experts, who are ready to solve any industrial water supply needs.





EXPERIENCE



REHABILITATION

of the WWTP of the Ing. Antonio M. Amor Refinery (100,000 bls / day)

and from the WWTP at the Francisco Pérez Ríos Thermoelectric Plant (200,000 bls / day)

EXTENSION

and adaptation of train No. 4 and conduction line of the WWTP of the Valle de México Thermoelectric Plant (320,000 bls / day)

DESIGN

construction and commissioning of a WWTP at the Francisco Pérez Ríos Thermoelectric Plant (280,000 bls / day)

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