

40 MW Sulzer Slow-Speed HFO Power Plant

Capacity: 40 MW Plant
(2) Diesel Engines X 19.58 MW each
(1) Steam turbine X 3 MW

Year Built: 1983

Year Shut Down: 2011

Engine:

Manufacturer Sulzer
Model RNF 90 M/28,000 HP
Fuel Type Heavy Fuel Oil
Speed 120 rpm
Cylinder 8
Cylinder dia 35.4 inches
Stroke 61 inches
Height 44 feet
Length 60 feet
Engine weight 882 tons

Engine Generator:

Manufacturer Brown Boveri
Frequency 60 Hz
Rating 21,350 KVA
Voltage 13,800 V
Type Two bearing, directly couple with the engines
Weight 100 tons

Major Equipment:

(2) Sulzer HFO Engines
(2) Brown Boveri Generators
(1) Peter Brotherhood STG
(2) Waste Heat Recovery Boilers
(2) 25 McGraw Edison MVA Transformers



BRIEF PLANT DESCRIPTION

The engines have the capability to burn residual oil, a very poor quality fuel, which is the residual left in oil refineries after all of distillate products such as gasoline, jet fuel, heating oil and No. 2 diesel oil have been refined from the crude oil. The generating plant contains the largest diesel engines to be installed in any power plant in the United States at the time when the plant was built. The noise generated from the Sulzer engine does not exceed 50 dBA. There are two Brown Boveri generators which are totally enclosed cooling air circuit with an air/water heat exchanger. Two waste heat boilers are installed in the exhaust gas streams from the engines to produce steam at no fuel cost which drives a 3,000 KW steam turbine for production of additional electric power. Additional to the heat recovery from stack emission, the engines produce large volume of hot water in the jacket water cooling systems.

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