

MIRAFLORES - PANAMA

36 MW POWER PLANT EXTENSION

- UNIT 7 & 8



BUILT IN 2008 FOR



THE AUTHORITY OF THE CANAL OF PANAMA
BY



Summary

Contract

Type..... Extension Project
Effective contract August 16 - 2006
Handing over February 11-2008

Technical Data

Diesel Engine

Make.....MAN B&W Augsburg, Germany
Type..... 2 x 18V48/60, 4-Stroke
Speed514 rpm

Synchronous Alternator

Make.....ABB, Finland
Type..... AMG 1600 UT14LSE
Rating.....23.050 KVA
Voltage/Frequency13,8 kV / 60 Hz
Output at 100% load..... 17992 kWe at Pf0.8

Main Auxiliary Units

Builder..... PipeCon, Denmark

Lube Oil Treatment

Make..... Westfalia, Germany
Type..... 2 x OSD 35-0196-067/35
Rated Capacity 2 x 6.9 m³/h

Central Cooler Unit

Make..... Sondex / BWSC A/S
Type..... Plate heat exchanger
Heat exchange HT+LT..... 2 x 11605 kW

Fuel Oil Treatment

Make..... Westfalia, Germany
Type..... 2 x OSD 35-0136-067/20
Rated Capacity 2 x 5.2 m³/h

Power House Building - extension

Supplier.....Promecon, Denmark
Length..... 18 m
Width 20.7 m
Height 11.5 m
Overhead Crane 1 x 5 ton
Stack..... 1 x 36 m with 2 barrels

11 kV Switchgear

Make..... Eaton, Brazil
Type..... VacClad-W
Voltage/Frequency13,8 kV / 60 Hz
Current..... 2000 A

Hydraulic Engine Sliding Device

Design BWSC A/S, Denmark
Sliding Capacity 500 ton

Project Background

Back in September 2001, ACP signed a turnkey contract with the consortium of Burmeister & Wain Scandinavian Contractor A/S (BWSC) and MAN B&W for the supply of a 18 MW Diesel Power Plant. The project comprised one 18V48/60 MANB&W engine (unit no.6) with all necessary auxiliary equipment and corresponding civil work. The plant, delivered within 14 months, was designed to allow for later extension with two more units.

As a result of Panama's rapidly growing demand for electricity supply, ACP issued on August 16, 2006 Notice to Proceed to BWSC Panama S.A. in consortium with Burmeister & Wain Scandinavian Contractor A/S (BWSC) and MAN B&W Diesel AG, Germany, to extend the production capacity by adding two more generating units, each of 18 MW generating capacity. Included in the supply was extension of the existing Power House, Civil Work and the entire related Auxiliary System. The total diesel generating capacity installed by BWSC for ACP in Miraflores was hereby increased to 54 MW.

Successfully completed on February 11, 2008 the two generating units no. 7 & 8 were handed over to ACP.



BWSC

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