

2nd PHASE 2010 - UNIT 7 - 3.2 MW

PICO POWER STATION THE AZORES

BWSC

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BUILT IN 2010 FOR



Electricidade dos Açores

BY



Burmeister & Wain Scandinavian Contractor A/S

PICO POWER PLANT EXTENSION PROJECT - UNIT 7

In March 2008, BWSC was awarded the second phase of the extension of The Pico Thermoelectric Power Station with an additional unit - Unit 7.

The scope of the extension was conducted as an EPC turnkey contract including all the auxiliary systems and an extension as well as an earthquake protection of the stack.

Unit 7 has a net output of 3.2 MW. The engine is the second engine to be installed in the new power house extension (built under 1st phase) with room for three engines in total.

The project commenced late 2008 and included the construction, erection and commissioning of the power plant extension.

The complete project was handed over in May 2010 more than two months ahead of the contractual completion date.



Transport of the Unit 7 diesel generator.



Engine hall with Unit 7 to the right.

Summary

Contract

Type..... Turnkey plant extension
Contract award..... 26. March, 2008
Handing over..... 18. May, 2010
Plant net output:..... 3.2 MW

Technical Data

Diesel Engines

Make..... MAN Diesel AG, STX-license, Korea
Type..... 1 x 7L32/40, 4-stroke
Speed..... 750 rpm

Synchronous Alternators

Make..... ABB, Finland
Type..... AMG 0710MR08DSE
Rating..... 4.222 KVA
Voltage/frequency..... 6 kV/50 Hz
Output at 100% load..... 1 x 3340 kW at Pf 0.8 kW

Units

Builder..... Vestas Pipecon, Denmark/Poland

Lube Oil Treatment

Make..... Alfa Laval, Denmark
Type..... 1 x SU 816
Rated capacity..... 1.05 m³/h

Radiator Coolers

Make..... Friterm, Turkey
Type..... FYKS 125 15 43 2,1/2, 4 LHT
Cooling capacity..... LT/HT: 1150 kW/1534kW

Power House

Power house - L x W x H..... 21 x 18.7 x 8.7 m
Overhead crane:..... 1 x 20 ton

Stack

Make..... VL Staal A/S
Height..... (6 m extension) 1 x 26 m
Liner..... 2 x 700 mm



Burmeister & Wain Scandinavian Contractor A/S
Gydevang 35, P.O. Box 235, DK-3450 Allerød, Denmark
Phone +45 48 14 00 22, Fax: +45 48 14 01 50
bwsc@bwsc.dk, www.bwsc.dk