

-A STRATEGIC ALLIANCE-
PHASE 3-YEAR 2007 EXPANSION



BUILT FOR



CARIBBEAN UTILITIES COMPANY, LTD.
GRAND CAYMAN



MAN Diesel



Burmeister & Wain Scandinavian Contractor A/S

FAST THIRD PHASE EXPANSION

The third phase expansion at Grand Cayman is part of a 10-year Strategic Alliance Agreement between the Caribbean Utilities Company Ltd. (CUC), MAN Diesel SE and Burmeister & Wain Scandinavian Contractor A/S (BWSC). The project was delivered in only 13 months.

Within a record-breaking period of 22 days from the arrival of the diesel engine on site, BWSC carried out the sliding into place of the diesel engine and generator, final erection and alignment, pretests, first start of the diesel engine and finally synchronization with the CUC grid.

Summary

Technical Data

Diesel Engine

Make MAN Diesel, Germany
Type 14V 48/60B, 4-stroke
Speed 514 rpm

Alternator

Make ABB, Finland
Type AMG 1600 SS14 LSE
Rating 20,086 kVA
Voltage/Frequency 13 kV/60 Hz
Output at 100% load 16,000 kW at p.f. 0.8

Borehole Cooling Water Pumps

Make ABS, Sweden
Type BE 325-1532
Cooling Flow 450 m³/h

Borehole Cooling Water Heat Exchanger

Make Sondex, Denmark
Type Plate, S113-IS10-153-TKTM51
Cooling Capacity 450 m³/h

Lube Oil Treatment

Make Alfa Laval, Italy
Type SU 836
Cooling Capacity 3.55 m³/h

13 kV Switchgear

Make Point Eight Power
Type GE VB Vacuum CB
Voltage/Frequency 13.8 kV/60 Hz
Current 1200 A, 18 kA RMS sym.

Ventilation

Supplier Klimatek, Denmark

Civil Work

Subcontractor Hadsphaltic, Grand Cayman



Caribbean Utilities Company, Ltd.
P.O. Box 38 GT, Grand Cayman
Cayman Islands
Phone: +1 345 949 5200
Fax: +1 345 949 4621
www.cuc-cayman.com



MAN Diesel

MAN Diesel SE
Stadtbachstrasse 1
86135 Augsburg, Germany
Phone: +49 821 322 0
Fax: +49 821 322 1460
E-mail: powerplants@manbw.de
www.manbw.com

MAN Diesel North America Inc., Houston
Phone: +1 713 355 2777
Fax: +1 713 355 4863
E-mail: cwalker@manbwhou.com



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
E-mail: sales@bwsc.dk
www.bwsc.dk