

Dam: Capanda

Country Angola

River Kwanza

9°47'41.77"S 15°28'01.87"E

-9.794936 15.467186

Owner/Client Ministry of Energy and Oil of P. R. Angola

Designer/Engineer Institute 'Hydroproject', Moscow, Russia

Contractor VO "Technopromexport" and Odebrecht J.V. (Consortio Capanda)

Purpose (code) H

Site start 10.02.1987

RCC start 10.10.1989

RCC completion 31.05.1992

Site completion 31.12.2007

Height (m) 110

Length (m) 1203

Volume of RCC ($m^3 \times 10^3$) 757

Total volume ($m^3 \times 10^3$) 1154

Reservoir capacity ($m^3 \times 10^6$) 4795

Upstream slope V

Forming of upstream face (code) (6)

Downstream slope 0.70

Forming of downstream face (code) (14)
(10)

Spillway slope 0.70

Forming of spillway face (code) (13)

Depth of layers (mm) 400

Depth of lifts (mm) 400

Cement content (kg/m^3) 70

Pozzolan content (kg/m^3) 100

Code for pozzolan (M)

RCCDAM Unique Serial No. RCCDAM0096

Under Construction



RCCDAM0096UC

Completed Dam



RCCDAM0096CD

Google Earth



RCCDAM0096GE

Guide to Abbreviations

Purpose

- E Environmental
- F Flood control
- G Groundwater recharge
- H Flood control
- I Irrigation
- N Navigation
- P Pollution control
- R Recreation
- W Water supply

Facing method

- (1) Traditional concrete against formwork
- (2) Traditional concrete against formwork with external geomembrane
- (3) RCC against formwork
- (4) RCC against formwork with external geomembrane
- (5) Traditional concrete against precast concrete panels
- (6) Traditional concrete against precast concrete panels with geomembrane
- (7) RCC against precast concrete panels
- (8) RCC against precast concrete panels with geomembrane
- (9) RCC against precast concrete panels with hot poured membrane
- (10) RCC against precast concrete blocks
- (11) Reinforced conventional concrete cast before RCC placement
- (12) Reinforced conventional concrete cast after RCC placement
- (13) Reinforced concrete cast against precast units or slip-formed facing elements
- (14) Slip-formed/extruded facing elements
- (15) RCC supported by fill shoulders
- (16) Mechanically compacted unformed face of RCC
- (17) Unformed face of RCC
 - ' GEVR/GE-RCC
 - * Stepped face

Pozzolans

- (-) No Pozzolan Used
- (C) High-lime flyash (ASTM Class C)
- (F) Low-lime flyash (ASTM Class F)
- (M) Milled sand
- (N) Natural pozzolan (ASTM Class N)
- (R) ROLAC (mixture of flyash and slag with or without limestone fines)
- (S) Ground-granulated blast-furnace slag
- (L) Mixture of GGBFS and limestone fines