

Dam: Capanda

Country: Angola

River: Kwanza

09°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 (m³x10³): 757

Total volume (m³x10³): 1154

Reservoir capacity (m³x10⁶): 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/m³): 70

Pozzolan content (kg/m³): 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