

Dam: Santa Clara-PR

Country Brazil

River Jordão

25°38'43.65"S 51°57'25.66"W

-25.645458 -51.957127

Owner/Client Elejor Centrais Elétricas do Rio Jordão S.A.

Designer/Engineer Intertechne/Triunfo

Contractor Construtora Triunfo Ltda

Purpose (code) H

Site start 29.11.2002

RCC start 16.12.2003

RCC completion 31.12.2004

Site completion 17.01.2005

Height (m) 67

Length (m) 543

Volume of RCC (m³x10³) 530

Total volume (m³x10³) 606

Reservoir capacity (m³x10⁶) 431

Upstream slope Unknown

Forming of upstream face (code) (1)

Downstream slope Unknown

Forming of downstream face (code) (1)

Spillway slope Unknown

Forming of spillway face (code) (1) *

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m³) 40

Pozzolan content (kg/m³) 50

Code for pozzolan (S)

RCCDAM Unique Serial No. RCCDAM0330

Completed Dam



RCCDAM0330CD

Google Earth



RCCDAM0330GE

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