

Dam: Gov. José Richa (formerly Salto Caxias)

Country Brazil

River Iguaçu

25°32'33.87"S 53°29'27.94"W

-25.542742 -53.491093

Owner/Client COPEL (Companhia Paranaense de Energia) Geração E Transmissão S.A.

Designer/Engineer Intertechne-Leme-Engevix-Estio Consortium

Contractor DM Engenharia de Obras Ltda.

Purpose (code) H

Site start 01.02.1995

RCC start 01.01.1996

RCC completion 31.07.1998

Site completion 31.12.1998

Height (m) 67

Length (m) 1083

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 912

Total volume (m<sup>3</sup>x10<sup>3</sup>) 1438

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 3573

Upstream slope V

Forming of upstream face (code) (13)

Downstream slope 0.75

Forming of downstream face (code) (1) \*

Spillway slope 0.75

Forming of spillway face (code) (12)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m<sup>3</sup>) 80

Pozzolan content (kg/m<sup>3</sup>) 20

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0198

## Completed Dam



RCCDAM0198CD

## Google Earth



RCCDAM0198GE

# 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