

Dam: Lajeado (Luis Eduardo Magalhães)

Country: Brazil

River: Tocantins

09°45'28.14"S 48°22'18.97"W

-9.757817 -48.371937

Owner/Client: Investco (Tractebel)

Designer/Engineer: Themag

Contractor: Odebrecht and Andrade Gutierrez

Purpose (code): H

Site start: 01.07.1998

RCC start: 01.06.2001

RCC completion: 30.12.2001

Site completion: 30.12.2002

Height (m): 43

Length (m): 2100

Volume of RCC ($m^3 \times 10^3$): 188

Total volume ($m^3 \times 10^3$): 210

Reservoir capacity ($m^3 \times 10^6$): 4982

Upstream slope: Unknown

Forming of upstream face (code): Unknown

Downstream slope: Unknown

Forming of downstream face (code): Unknown

Spillway slope: Unknown

Forming of spillway face (code): Unknown

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content (kg/m^3): 30

Pozzolan content (kg/m^3): 40

Code for pozzolan: (S)

RCCDAM Unique Serial No.: RCCDAM0259

Completed Dam



RCCDAM0259CD

Google Earth



RCCDAM0259GE

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