| | | | |
|---|---|---|---|
| Dam: | Castro Alves | Country | Brazil |
| River | das Antas | 29°0'19.95"S 51°23'3.39"W | -29.005543 -51.384277 |
| Owner/Client | CERAN (Companhia Energética Rio das Antas) | | |
| Designer/Engineer | Engevix Engenharia and CCC Engenharia | | |
| Contractor | *Unknown* | | |

| | |
|---|---|
| Purpose (code) | H |
| Site start | 01.01.2005 |
| RCC start | 01.01.2006 |
| RCC completion | 31.12.2007 |
| Site completion | 03.02.2008 |
| Height (m) | 48 |
| Length (m) | 350 |
| Volume of RCC ($m^3x10^3$) | 240 |
| Total volume ($m^3x10^3$) | 322 |
| Reservoir capacity ($m^3x10^6$) | 92 |
| Upstream slope | V |
| Forming of upstream face (code) | *Unknown* |
| Downstream slope | 0.77 |
| Forming of downstream face (code) | *Unknown* |
| Spillway slope | 0.77 |
| Forming of spillway face (code) | *Unknown* |
| Depth of layers (mm) | *Unknown* |
| Depth of lifts (mm) | *Unknown* |
| Cement content ($kg/m^3$) | 60 |
| Pozzolan content ($kg/m^3$) | 15 |
| Code for pozzolan | (N) |
| RCCDAM Unique Serial No. | RCCDAM0397 |

## Under Construction

RCCDAM0397UC

## Completed Dam

RCCDAM0397CD

## Google Earth

RCCDAM0397GE

# 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 |