

Dam: **Belo Monte**

Country **Brazil**

River **Xingu**

**2°38'44.67"S 51°59'58.5"W**

**-2.645742 -51.999584**

Owner/Client **Norte Energia S.A.**

Designer/Engineer **IEP and CCBM**

Contractor **Unknown**

Purpose (code) **H**

Site start **01.01.2011**

RCC start **01.01.2013**

RCC completion **31.12.2016**

Site completion **31.12.2020**

Height (m) **74**

Length (m) **680**

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) **63**

Total volume (m<sup>3</sup>x10<sup>3</sup>) **2208**

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) **5**

Upstream slope **V**

Forming of upstream face (code) **Unknown**

Downstream slope **1.20**

Forming of downstream face (code) **Unknown**

Spillway slope **separate**

Forming of spillway face (code) **Unknown**

Depth of layers (mm) **Unknown**

Depth of lifts (mm) **Unknown**

Cement content (kg/m<sup>3</sup>) **Unknown**

Pozzolan content (kg/m<sup>3</sup>) **Unknown**

Code for pozzolan **Unknown**

RCCDAM Unique Serial No. **RCCDAM0784**

## Under Construction



RCCDAM0784UC

## Completed Dam



RCCDAM0784CD

## Google Earth



RCCDAM0784GE

# 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