

Dam: Las Cruces

Country Mexico

River San Pedro Mazquital

22°05'19"N 104°05'04"W

22.088612 -104.084442

Owner/Client CFE (Comisión Federal de Electricidad)

Designer/Engineer *Unknown*

Contractor Technoproject

Purpose (code) F H I R

Site start 01.01.2017

RCC start 01.01.2018

RCC completion 31.12.2020

Site completion 31.12.2021

Height (m) 185

Length (m) 815

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 2000

Total volume (m<sup>3</sup>x10<sup>3</sup>) 2400

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 2485

Upstream slope V  
0.10

Forming of upstream face (code) (1)  
(1)

Downstream slope 0.80

Forming of downstream face (code) (1)

Spillway slope 0.80

Forming of spillway face (code)

Depth of layers (mm) 300

Depth of lifts (mm) 300

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

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

Code for pozzolan

RCCDAM Unique Serial No. RCCDAM0712

# 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