

Dam: 3 de Febrero (formerly El Chaparral)

Country El Salvador

River Torola

13°51'46.94"N 88°21'3"W

13.863039 -88.35083

Owner/Client Comisión Ejecutiva Hidroeléctrica del Rio Lempa (CEL)

Designer/Engineer Intertechne Consultores Asociados

Contractor Astaldi (contract terminated) and UDP/Cartellone (Argentina)/Holcim JV

Purpose (code) H

Site start 01.01.2009

RCC start 01.01.2018

RCC completion 31.12.2020

Site completion 19.10.2023

Height (m) 88

Length (m) 324

Volume of RCC ($m^3 \times 10^3$) 375

Total volume ($m^3 \times 10^3$) 450

Reservoir capacity ($m^3 \times 10^6$) *Unknown*

Upstream slope 0.20

Forming of upstream face (code) (7')

Downstream slope 0.80

Forming of downstream face (code) (7')

Spillway slope 0.80

Forming of spillway face (code) (7')

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m^3) 94

Pozzolan content (kg/m^3) 63

Code for pozzolan (N)

RCCDAM Unique Serial No. RCCDAM0691

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