

Dam: El Guapo spillway

Country Venezuela

River El Guapo

10°06'22.59"N 65°58'58.10"W

10.106275 -65.982819

Owner/Client MARN (Ministerio del Ambiente y los Recursos Naturales)

Designer/Engineer MWH Energy and Infrastructure

Contractor Camargo Correa-Barsanti J.V.

Purpose (code) F I W

Site start 01.08.2005

RCC start 01.04.2006

RCC completion 30.12.2006

Site completion 31.08.2007

Height (m) 50

Length (m) 138

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 320

Total volume (m<sup>3</sup>x10<sup>3</sup>) 342

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 141

Upstream slope 0.60

Forming of upstream face (code) (1)

Downstream slope 0.85

Forming of downstream face (code) (17)

Spillway slope 1.80

Forming of spillway face (code) (1)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m<sup>3</sup>) 75

Pozzolan content (kg/m<sup>3</sup>) 0

Code for pozzolan (-)

RCCDAM Unique Serial No. RCCDAM0364

## Under Construction



RCCDAM0364UC

## Completed Dam



RCCDAM0364CD

## Google Earth



RCCDAM0364GE

# 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