

Dam: Santa Eugenia

Country Spain

River Xallas

42°54'53.18"N 9°6'14.98"W

42.914772 -9.104161

Owner/Client Sociedad Española de Carburos Metálicos S.A.

Designer/Engineer Oficina Tecnica AEPO (Eng. Vicente Perez Vilar)

Contractor Cubiertas y Mzov S.A.

Purpose (code) H

Site start 10.01.1987

RCC start 30.06.1987

RCC completion 07.06.1988

Site completion 31.10.1988

Height (m) 84

Length (m) 290

Volume of RCC (m³x10³) 225

Total volume (m³x10³) 254

Reservoir capacity (m³x10⁶) 17

Upstream slope 0.05

Forming of upstream face (code) (3)

Downstream slope 0.75
0.35

Forming of downstream face (code) (3) *
(3) *

Spillway slope 0.75

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 250

Cement content (kg/m³) 88
72

Pozzolan content (kg/m³) 152
145

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0041

Under Construction



RCCDAM0041UC

Completed Dam



RCCDAM0041CD

Google Earth



RCCDAM0041GE

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