

Dam: Jiangya

Country: China

River: Loushui

29°32'27.83"N 110°44'21.62"E

29.541063 110.739342

Owner/Client: Lishui Hydropower Development Co. Ltd.

Designer/Engineer: Institute of Investigation and Design of Water Conservancy & Hydropower, Hunan Province

Contractor: Liaoning Construction Bureau and Condotte d'Acqua (Italy) J.V.

Purpose (code): F H I N W

Site start: 02.07.1995

RCC start: 02.10.1996

RCC completion: 25.04.1999

Site completion: 31.12.2001

Height (m): 131

Length (m): 368

Volume of RCC ($m^3 \times 10^3$): 1100

Total volume ($m^3 \times 10^3$): 1310

Reservoir capacity ($m^3 \times 10^6$): 1741

Upstream slope: V

Forming of upstream face (code): (3')

Downstream slope: 0.80

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

Spillway slope: ogee
0.80

Forming of spillway face (code): (13)

Depth of layers (mm): 300

Depth of lifts (mm): 3000

Cement content (kg/m^3): 87
64 46

Pozzolan content (kg/m^3): 107
96 107

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0211

Under Construction



RCCDAM0211UC

Completed Dam



RCCDAM0211CD

Google Earth



RCCDAM0211GE

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