

Dam: Wan'an

Country: China

River: Gan

26°26'40.35"N 114°47'38.56"E

26.444542 114.794044

Owner/Client: China Guodian Corporation

Designer/Engineer: Yangtze Valley Planning Office

Contractor: Hydropower Command (China An'neng Construction Corporation)

Purpose (code): F H I N

Site start: 01.11.1984

RCC start: 19.12.1990

RCC completion: 30.12.1992

Site completion: 30.06.1994

Height (m): 68

Length (m): 1104

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>): 156

Total volume (m<sup>3</sup>x10<sup>3</sup>): 1480

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>): 2216

Upstream slope: V

Forming of upstream face (code): (1)

Downstream slope: 0.80

Forming of downstream face (code): (1)

Spillway slope: ogee

Forming of spillway face (code): (1)

Depth of layers (mm): 300

Depth of lifts (mm): 300

Cement content (kg/m<sup>3</sup>): 65

Pozzolan content (kg/m<sup>3</sup>): 105

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0109

## Under Construction



RCCDAM0109UC

## Completed Dam



RCCDAM0109CD

## Google Earth



RCCDAM0109GE

# 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