

Dam: Tianshenqiao N°2

Country: China

River: Nanpan

24°57'47.41"N 105°09'19.44"E

24.963169 105.155403

Owner/Client: China Southern Power Grid

Designer/Engineer: Guiyang Hydroelectric Power Investigation and Design Institute, Guizhou Province

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

Purpose (code): F H

Site start: 01.01.1984

RCC start: 01.04.1987

RCC completion: 30.06.1990

Site completion: 30.12.1992

Height (m): 61

Length (m): 471

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>): 143

Total volume (m<sup>3</sup>x10<sup>3</sup>): 284

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>): 116

Upstream slope: V

Forming of upstream face (code): (1)

Downstream slope: V  
0.40

Forming of downstream face (code): (10)

Spillway slope: ogee

Forming of spillway face (code): (1)

Depth of layers (mm): 250

Depth of lifts (mm): 250

Cement content (kg/m<sup>3</sup>): 79

Pozzolan content (kg/m<sup>3</sup>): 79

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0065

## Completed Dam



RCCDAM0065CD

## Google Earth



RCCDAM0065GE

# 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