

Dam: Guanyinge (Kwan-in-Temple)

Country: China

River: Taizi

41°18'50.93"N 124°08'55.64"E

41.314148 124.148788

Owner/Client: Guanyinge Reservoir Management Bureau

Designer/Engineer: Institute of Liaoning Provincial Survey and Design of Water Conservancy and Electric Power, Liaoning Province

Contractor: JIVC (including Liaoning Construction Bureau)

Purpose (code): F H I W

Site start: 01.05.1990

RCC start: 01.09.1991

RCC completion: 05.09.1995

Site completion: 31.10.1995

Height (m): 82

Length (m): 1040

Volume of RCC (m³x10³): 1240

Total volume (m³x10³): 1876

Reservoir capacity (m³x10⁶): 2168

Upstream slope: V
0.10

Forming of upstream face (code): (1)
(1)

Downstream slope: 0.70

Forming of downstream face (code): (1)

Spillway slope: 0.70

Forming of spillway face (code): (1)

Depth of layers (mm): 270 -
280

Depth of lifts (mm): 750

Cement content (kg/m³): 91

Pozzolan content (kg/m³): 39

Code for pozzolan: (F)

RCCDAM Unique Serial No.: RCCDAM0157

Completed Dam



RCCDAM0157CD

Google Earth



RCCDAM0157GE

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