

Dam: Son La

Country Vietnam

River Song Da (Black river)

21°29'43.85"N 103°59'47.14"E

21.495514 103.996429

Owner/Client EVN (Electricité de Vietnam)

Designer/Engineer PECC1 (Power Engineering Consulting Company N°1)

Contractor Song Da Corporation (SDC)

Purpose (code) F H

Site start 01.04.2004

RCC start 11.01.2008

RCC completion 26.08.2010

Site completion 30.12.2012

Height (m) 138

Length (m) 962

Volume of RCC ( $m^3 \times 10^3$ ) 2677

Total volume ( $m^3 \times 10^3$ ) 4800

Reservoir capacity ( $m^3 \times 10^6$ ) 9260

Upstream slope V

Forming of upstream face (code) (3')

Downstream slope 0.73

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

Spillway slope separate

Forming of spillway face (code) *Unknown*

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content ( $kg/m^3$ ) 60

Pozzolan content ( $kg/m^3$ ) 160

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0468

## Under Construction



RCCDAM0468UC

## Completed Dam



RCCDAM0468CD

## Google Earth



RCCDAM0468GE

# 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