

Dam: Ryumon

Country Japan

River Sakoma

33°2'12.17"N 130°50'59.96"E

33.036713 130.849991

Owner/Client Ministry of Construction

Designer/Engineer Ministry of Construction

Contractor Nishimatsu Construction Co Ltd., Aoki Construction Co Ltd and Zenidaka-gumi Co Ltd (J.V)

Purpose (code) F I W

Site start 01.09.1987

RCC start 01.03.1990

RCC completion 30.11.1992

Site completion 31.03.1997

Height (m) 100

Length (m) 378

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 521

Total volume (m<sup>3</sup>x10<sup>3</sup>) 836

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 42

Upstream slope V  
0.30

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

Downstream slope 0.80

Forming of downstream face (code) (1)

Spillway slope 0.80

Forming of spillway face (code) (1)

Depth of layers (mm) 150 -  
200

Depth of lifts (mm) 750 -  
1000

Cement content (kg/m<sup>3</sup>) 91

Pozzolan content (kg/m<sup>3</sup>) 39

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0107

## Completed Dam



RCCDAM0107CD

## Google Earth



RCCDAM0107GE

# 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