

Dam: Yubari Syuparo

Country Japan

River Yubari

43°1'25.39"N 142°5'58.95"E

43.02372 142.099701

Owner/Client Ministry of Land, Infrastructure and Transport

Designer/Engineer Docon Co. Ltd.

Contractor Taisei Construction Co. Ltd., Iwata Chizaki Construction Corp. & Nakayama-Gumi Co. Ltd. JV

Purpose (code) F H I W

Site start 01.11.2003

RCC start 17.10.2009

RCC completion 30.09.2011

Site completion 18.03.2015

Height (m) 111

Length (m) 390

Volume of RCC ( $m^3 \times 10^3$ ) 584

Total volume ( $m^3 \times 10^3$ ) 940

Reservoir capacity ( $m^3 \times 10^6$ ) 427

Upstream slope V  
0.80

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

Downstream slope 0.82

Forming of downstream face (code) (1)

Spillway slope 0.82

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 750 &  
1000

Cement content ( $kg/m^3$ ) 91

Pozzolan content ( $kg/m^3$ ) 39

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0504

## Under Construction



RCCDAM0504UC

## Completed Dam



RCCDAM0504CD

## Google Earth



RCCDAM0504GE

# 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