

Dam: Tsugaru

Country Japan

River Iwaki

40°32'18.05"N 140°15'38.07"E

40.538345 140.260574

Owner/Client Ministry of Land, Infrastructure, Transport and Tourism

Designer/Engineer Crearia Inc.

Contractor Hazama-Ando and Nishimatsu

Purpose (code) F H I

Site start 07.10.2008

RCC start 21.05.2010

RCC completion 28.08.2014

Site completion 18.03.2016

Height (m) 97

Length (m) 342

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 500

Total volume (m<sup>3</sup>x10<sup>3</sup>) 717

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 141

Upstream slope V  
1.00

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

Downstream slope 0.74

Forming of downstream face (code) (1)

Spillway slope 0.74

Forming of spillway face (code) (1)

Depth of layers (mm) 250

Depth of lifts (mm) 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. RCCDAM0576

## Completed Dam



RCCDAM0576CD

## Google Earth



RCCDAM0576GE

# 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