

Dam: Akköy II (Aladereçam)

Country Turkey

River Karaovacik

40°38'18.22"N 38°47'59.8"E

40.638393 38.799946

Owner/Client Akköy Energy A.S.

Designer/Engineer Stucky

Contractor Kolin Construction

Purpose (code) H

Site start 01.06.2007

RCC start 01.05.2011

RCC completion 30.09.2012

Site completion 03.09.2013

Height (m) 60

Length (m) 260

Volume of RCC (m<sup>3</sup>x10<sup>3</sup>) 226

Total volume (m<sup>3</sup>x10<sup>3</sup>) 306

Reservoir capacity (m<sup>3</sup>x10<sup>6</sup>) 14

Upstream slope V

Forming of upstream face (code) (1)

Downstream slope 0.80

Forming of downstream face (code) (1)

Spillway slope 0.80

Forming of spillway face (code) (12)

Depth of layers (mm) 300

Depth of lifts (mm) 300

Cement content (kg/m<sup>3</sup>) 85

Pozzolan content (kg/m<sup>3</sup>) 85

Code for pozzolan (N)

RCCDAM Unique Serial No. RCCDAM0547

## Completed Dam



RCCDAM0547CD

# 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