

Dam: Nickajack Auxillary Spillway

Country USA

River Tennessee

35°0'13.13"N 85°37'10.88"W

35.003647 -85.61969

Owner/Client Tennessee Valley Authority

Designer/Engineer Vann A. Newell & Harry A. Mason

Contractor TVA Construction Forces, GUMBK, Sequatchie Concrete Services Inc.

Purpose (code) H

Site start 03.08.1989

RCC start 10.07.1990

RCC completion 13.02.1991

Site completion 24.04.1992

Height (m) 17

Length (m) 427

Volume of RCC (m³x10³) 79

Total volume (m³x10³) 79

Reservoir capacity (m³x10⁶) 311

Upstream slope 0.25

Forming of upstream face (code) (3) *

Downstream slope 0.60

Forming of downstream face (code) (3) *

Spillway slope 0.60

Forming of spillway face (code) (3) *

Depth of layers (mm) 300

Depth of lifts (mm) 600

Cement content (kg/m³) 85

Pozzolan content (kg/m³) 119

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0078

Completed Dam



RCCDAM0078CD

Google Earth



RCCDAM0078GE

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