

Dam: Willow Island Country USA

River Ohio 39°21'25.83"N 81°19'4.8"W 39.357174 -81.318001

Owner/Client American Municipal Partners (AMP)

Designer/Engineer MWH-Stantec

Contractor Ruhlin

Purpose (code) H

Site start 07.12.2011

RCC start 07.11.2013

RCC completion 26.04.2014

Site completion 20.02.2016

Height (m) 20

Length (m) 66

Volume of RCC (m³x10³) 49

Total volume (m³x10³) Unknown

Reservoir capacity (m³x10⁶) Unknown

Upstream slope 0.80

Forming of upstream face (code) (10)

Downstream slope 0.80

Forming of downstream face (code) (10)

Spillway slope separate

Forming of spillway face (code) Unknown

Depth of layers (mm) 230

Depth of lifts (mm) 230

Cement content (kg/m³) 116

Pozzolan content (kg/m³) 62

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM0995

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