

Dam: Priest Rapids Right Embankment

Country USA

River Columbia

46°38'25.08"N 119°55'20.40"W

46.640301 -119.922333

Owner/Client Grant County Public Utility District

Designer/Engineer Stantec

Contractor IMCO Construction

Purpose (code) H

Site start 11.10.2021

RCC start 20.04.2022

RCC completion 31.03.2023

Site completion 20.10.2023

Height (m) 17

Length (m) 564

Volume of RCC (m³x10³) 386

Total volume (m³x10³) *Unknown*

Reservoir capacity (m³x10⁶) *Unknown*

Upstream slope V

Forming of upstream face (code) (3')

Downstream slope V
0.75

Forming of downstream face (code) (3')
(17)

Spillway slope none

Forming of spillway face (code) *Unknown*

Depth of layers (mm) 300

Depth of lifts (mm) 300 -

Cement content (kg/m³) 87

Pozzolan content (kg/m³) 137

Code for pozzolan (F)

RCCDAM Unique Serial No. RCCDAM1188

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