| | | | |
|---|---|---|---|
| Dam: | Longtan (Stage 1) | Country | China |
| River | Hongshui | 25°01'41.99"N 107°02'36.40"E | 25.028332 107.043442 |
| Owner/Client | Longtan Hydropower Development Co. Ltd. | | |
| Designer/Engineer | Mid-South Design Institute for Hydroelectric Projects, MOE & MWR | | |
| Contractor | JV of 7th, 8th and Gezhouba Construction Bureaux (Right Bank) and Jiangnan Co. Ltd. (Left Bank) | | |

| | |
|---|---|
| Purpose (code) | F H N W |
| Site start | 01.07.2001 |
| RCC start | 08.10.2004 |
| RCC completion | 20.06.2007 |
| Site completion | 30.12.2009 |
| Height (m) | 192 |
| Length (m) | 832 |
| Volume of RCC ($m^3x10^3$) | 4623 |
| Total volume ($m^3x10^3$) | 7400 |
| Reservoir capacity ($m^3x10^6$) | 16210 |
| Upstream slope | V<br>0.25 |
| Forming of upstream face (code) | (3') |
| Downstream slope | 0.70 |
| Forming of downstream face (code) | (3') |
| Spillway slope | 0.68 |
| Forming of spillway face (code) | (12) |
| Depth of layers (mm) | 300 |
| Depth of lifts (mm) | 300 |
| Cement content ($kg/m^3$) | 99<br>86 |
| Pozzolan content ($kg/m^3$) | 121<br>109 |
| Code for pozzolan | (F) |
| RCCDAM Unique Serial No. | RCCDAM0411 |

## Under Construction

RCCDAM0411UC

## Completed Dam

RCCDAM0411CD

## Google Earth

RCCDAM0411GE

# 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 |