DECOTEC

STRUCTURAL MODIFICATION

WIRE SAW, BURST & LIFT

REF No. D/A13

Client: WELLINGTON DAM ALLIANCE (WDA)

Location: Wellington Dam, Collie WA, Australia

Project: Wellington Dam Upgrade

DecoTEC were deployed to implement their extensive experience in providing practical and cost effective solutions to assist in the upgrade of Wellington Dam, Western Australia

The project: to upgrade Wellington Dam to current safety standards by installing 43 post-tensioned anchors vertically into the crest, deep into its foundations. To carry out these works a bridge spanning the entire length of the dam was constructed.

Part of DecoTEC's contract involved creating 28 slots in the overflow crest to allow for the installation of bridge piers.

Working together with the client DecoTEC were able to aid in the development of a strategy which tackled the access, program and safety restrictions head on.

The approach: Assist in the design and implementation of four cutting and drilling trolleys which were assembled onsite and lifted into position on top of the overflow crest. The first trolley on each side of the dam went ahead to wire saw the slots, burst the freed section into blocks, lift the blocks from the crest and lower them into the dam via an engineered remote release rig. A second trolley followed the first on each end of the spillway which concentrated on drilling, installing and grouting the 60+ meters of passive bars used to tie the proposed bridge piers into the existing crest.

Due to the environmentally sensitive location of the works DecoTEC implemented a fully engineering state of the art slurry control system. This system involved diverting slurry into a temporary drain which was installed at the source of each slot location. The captured slurry then travelled through a plumbing network and was expelled into the first of three filtration containers located downstream of the spillway. The slurry was treated and tested for pH and turbidity before being released into the waterway.

Due to DecoTEC's experienced approach the client's strict requirements for Safety, Environmental Control and Program were easily succeeded. To achieve highly successful results like these DecoTEC encompass an experienced management team with a strong engineering department. The combination of this, alongside its highly skilled work force, enable each project to be as successful as the Wellington Dam Upgrade Project.

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Please contact our Global Headquarters to organise for one of our DecoTEC representatives to meet up with you and discuss your project:

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References available upon request.

JAS-ANZ

ISO 4801:2001
ISO 9001:2000
ISO 14001:2004