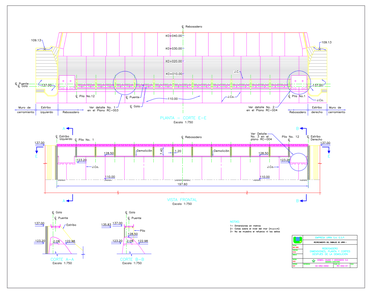
DECOTEC

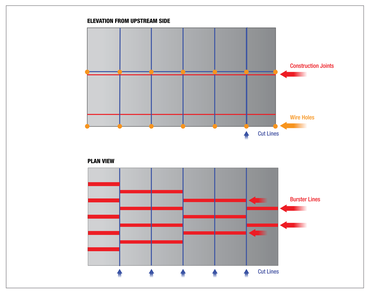
STRUCTURAL MODIFICATION

URRA DAM

Scope: form opening on bay 1 & 2. 12m wide by 5.3m high plus recess details.



The project works to be done.



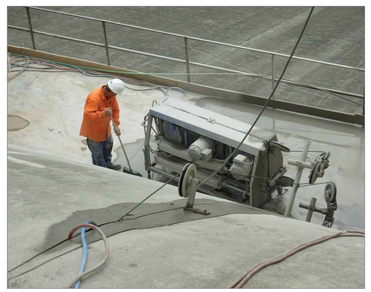
The methodology.

Temporary work platform for drilling.

Three-phase phase motor drilling 76mm diameter by 12 metres deep for wire holes.

Holes had to be accurately drilled, perpendicular to axis and with a 2% fall upstream/downstream.

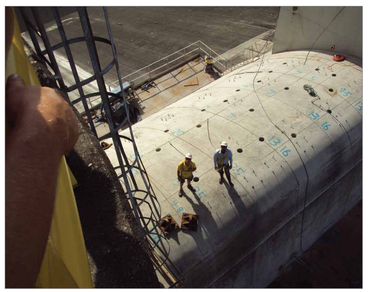
Wire saw set up to complete a 16m^2 horizontal cut.



Wire saw set up to cut 40m^2 vertical cut.

Burster splitting concrete.

Hydraulic bursters split the concrete to reduce block size.



Bursting holes drilled and lifting bolts installed.

Lifting brackets fixed to slab and ready to lift.

Block being prepared for removal.

Sliced and diced!

Melting the 'non-existent' steel.

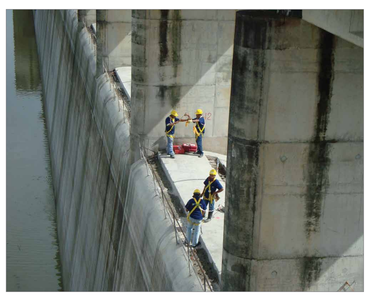
Forty-four (44) tonnes concrete block being eased out of position.

Forty-four (44) tonne block lifted and moved into upstream side.

Formed upstream pockets details.

Preparation of slide recess details.

The finished article: two upstream pockets cut into side of abutment and piers.



Base slab ready to receive flap gates.

Trench for fuse gate foundation.

Deconstruction process complete.

The finished works.