

SaskPower Penstock Expansion Joint Grouting

STRUCTURE: E. B. Campbell Power Generating Station
LOCATION: Carrot River, SK
PROJECT DATE: January 1998
JOB DURATION: 7 days
CLIENT CONTACT: Tony Werrett
AREA: 4 Joints @ 1" x 20' diameter
CONTRACTOR: Vector Construction Ltd.
Saskatchewan Branch



PROJECT DESCRIPTION:

Problem; Water leaking out through the penstock wall into the earth fill dam, causing erosion of the earth fill. Failure of the waterstop installed during original construction in the expansion joints of the penstock.

Repair Product: MME Polycast Exp – 2 component urethane

Repair Procedure:

- Clean out existing joint to a depth of the existing waterstop.
- Install foam soaked oakum against the existing waterstop to seal the backside of the expansion joint opening.
- Install an ethafoam rod as an outer seal and install 6" pipe nipples @ 4' on center to act as injection ports.
- Fill the chipped out area 1" X 3" X full perimeter with Emaco S88CA repair mortar.
- Mix and inject MME EXP Urethane resin starting at the six o'clock position and working up both sides filling to the twelve o'clock position.



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