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Reference Project

Inspection

Abseil Access have been providing difficult access penstock inspection services on Manapouri Hydroelectric Power Station almost 20 years.

Location Manapouri Hydroelectricity Station

Date Yearly 2003 - Present

Client Meridian Energy

Consultant Les Topping

Manapouri hydro-electric power station has seven 200m vertical penstocks through rock to feed the underground turbines. Abseil Access have developed a refined and turnkey access solution to inspecting these penstocks. This solution has been utilised by Meridian Energy for almost 20 years. The 7 penstocks received an initial concrete condition which included core samples and detailed mapping. A future programme of inspections was then developed to monitor the ongoing condition.



- Access and rescue planning
- General/close visual inspection and condition reporting
- Core sampling
- Concrete condition mapping and erosion monitoring
- · Condition Survey reporting

Inspecting underground penstocks requires a substantial amount of planning, experience, and specialization for safe project execution. Electrical core drilling was achieved in a dark, wet environment 200m

underground. Abseil Access prides itself in providing the access and inspection solution to the Manapouri hydroelectricity station and being a part of the history of this engineering feat.



















