

KELSEY GENERATING STATION SPILLWAY GATE GUIDE REHABILITATION

Manitoba Hydro

Winnipeg, Manitoba



Project Description

KGS Group was retained by Manitoba Hydro to carry out the concept development and subsequent detailed design of a rehabilitation scheme for the spillway gate guides at Manitoba Hydro's Kelsey Generating Station. The spillway gate roller path at this plant had suffered excessive wear resulting in operational difficulties. The concept development by KGS Group consisted of a new roller path with specific design properties mounted to the existing embedded parts by means of mechanical anchorage and grouting. The \$1,000,000 cost for rehabilitating one spillway gate included replacement of the gate rollers and modifications to the gate structure as well as installation of the new guides. The rehabilitation of the remaining spillway gates and guides on the Kelsey G.S. spillway was subsequently carried out employing the same approach.