

KAMINISTQUIA RIVER SITES - DAM SAFETY REVIEWS

Ontario Power Generation

Thunder Bay, Ontario



Project Description

KGS Group is currently performing the Dam Safety Review of five dams on the Kaministiquia River for Ontario Power Generation. The Review will comply with requirements of the current CDA guidelines and examines the operation, maintenance, surveillance and emergency plans. The scope of the dam safety review included examination and assessment of the following aspects:

- design and construction documents to assess their compliance with current applicable safety requirements, methodology, and approach (including PMP/PMF, stability, equipment design, ice forces, debris impact, etc.)
- the PMP/ PMF, flood frequency and spillway capacity studies,
- the dam break analyses, breach parameters, and flood inundation maps
- incremental consequence and classification study
- condition assessment studies of the earth dykes and dams
- condition assessment studies of the concrete structures and foundation
- condition assessment studies of the flow control equipment
- the Operation, Maintenance, and Surveillance manual including field testing and procedures, inspections, instrumentation, monitoring frequency and adequacy, and updating of plans
- the Emergency Preparedness and Response Plans (EPRPs) including warning systems, emergency response plans and testing and updating of plans
- conducting multi-discipline condition safety assessments of the structures and the flow control equipment
- verification of compliance with recommendations from previous dam safety assessment reports