Valued Components

Potential Accident or Malfunction	Fish and Fish Habitat	Vegetation and Ecological Communities	Wildlife Resources	Greenhouse Gases	Local Government Revenue	Labour Market	Regional Economic Development	Current Use of Lands and Res. for Trad. Purposes	Agriculture	Forestry	Oil, Gas and Energy	Minerals and Aggregates	Harvest of Fish and Wildlife Resources	Outdoor Recreation and Tourism	Navigation (Water and Air)	Visual and Aesthetic Resources	Population and Demographics	Housing	Community Infrastructure and Services	Transportation	Heritage Resources	Human Health
CONSTRUCTION PHASE																						
Failure of Stage 2 upstream cofferdam	2	2	2	1	1	0	0	2	2	0	2	1	2	2	2	2	0	1	1	1	2	2
Release or spills of chemicals and hazardous materials																						
Spills from handling	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1
Break in hydraulic excavation lines	1	0	0	1	1	0	0	1	1	0	0	0	0	1	0	0	0	1	1	0	0	1
Break or seepage from wastewater or stormwater containment pond	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	1
Failure of sediment control device	1	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Fire or explosion	0	2	2	1	1	0	0	1	0	0	0	0	0	1	0	2	0	1	1	1	1	1
OPERATIONS PHASE																						
Failure of Site C earthfill dam	2	2	2	2	1	0	0	2	2	0	2	1	2	2	2	2	0	1	2	2	2	2
Release or spills of chemicals and hazardous materials																						
Spill from transformer oil change	2	2	1	1	0	0	0	2	1	0	0	0	0	1	0	0	0	0	1	0	0	1
Spill from leak or accident with tanker truck	2	2	1	1	1	0	0	2	1	0	0	0	0	1	0	0	0	1	1	1	0	1
Spill from a transformer explosion	2	2	1	1	1	0	0	2	1	0	0	0	0	1	0	0	0	1	1	1	0	1
Release of SF_6 gas	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire or explosion	0	2	2	1	1	0	0	2	1	0	0	0	0	1	0	2	0	1	1	1	1	1
Transmission line or generating station outage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTES:

0 - NO INTERACTION IS PREDICTED

1 - AN ADVERSE EFFECT MAY RESULT FROM AN INTERACTION, BUT STANDARD MEASURES TO AVOID OR MINIMIZE THE POTENTIAL EFFECT ARE AVAILABLE AND ARE WELL UNDERSTOOD TO BE EFFECTIVE, AND RESIDUAL EFFECTS ARE NEGLIGIBLE

2 - INTERACTIONS MAY RESULT IN AN ADVERSE EFFECT AND MITIGATION MEASURES ARE NOT WELL UNDERSTOOD TO BE EFFECTIVE

BC hydro

SITE C CLEAN ENERGY PROJECT

Figure 37.22 Interactions of potential accidents and malfunctions with valued components