

DAM AUDIT PROGRAM DAM AUDIT CHECK SHEET

Dam:						0	Date:				
Consequence Classification:	Е	VH	Н	S	L	I	Risk L	evel	(see	e over	r)
Failure Probability Rating:	Lrg	Mod	Sm	VS	Sm	1	2a	2b	3	4	5

This Audit is <u>not</u> an Inspection of the dam. The dam owner is responsible for dam inspections.

DAM SAFETY REGULATION REQUIREMENTS

Confirmed by Owner	Yes	No	N/A	Follow-Up?
Consequence Redetermined & Appropriate? (sec. 3)				
Alterations or Hazards occurred recently? (sec. 12,14,15,16)				
Owner Reported recent alterations or hazards? (sec. 13,14,15)				
Dam Emergency Plan (DEP) Prepared? <i>(sec. 9)</i>				
DEP Submitted? (sec. 9(1)(b))				
DEP Forwarded to LEA? (sec. 9(6))				
OMS Manual Prepared? (sec. 8(1))				
OMS Manual Submitted? (sec. 8(1)(b))				
Reservoir Operation as per OMS Manual? (sec. 8(6))				
				
Confirmed by Dam Safety Officer	Yes	No	N/A	Follow-Up?
Maintenance Suitable? <i>(sec. 8(6))</i>				
Site Surveillance Suitable? (sch. 2)				
Formal Inspection Suitable? (sch. 2)				
Mechanical, Electrical & Communications Equip Tested? (sch. 2)				
Signs posted on dam? (sec. 11)				
Dam Safety Review Status Acceptable? (sec. 20)				
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Comments & Site Observations:				

Dam Owner / agent present for audit? Y

Copy given to Dam Owner / agent? Y

Printed Name of Dam Safety Officer	Signature	Date
Printed Name of Dam Owner / agent	Signature	Date

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FAILURE PROBABILITY RATING GUIDELINES

Failure Probability Rating	General Guidelines for Allocating Failure Probability Ratings (NOTE: Apply highest rating, only one bullet required)
Large	 Uncorrected design, construction, structural and/or operational deficiencies that could <i>clearly</i> lead to uncontrolled reservoir release. NOTE: If the dam owner is actively working on an <i>approved</i> project to correct the deficiency the rating can be reduced to MODERATE, or Owner exhibits reluctance to operate in a safe and timely manner, or is incapable of doing so or the dam is unlicenced.
Moderate	 Uncorrected design, construction, structural and/or operational deficiencies that could <i>potentially</i> lead to uncontrolled reservoir release, or Owner exhibits reluctance to undertake and report on annual inspection, or is incapable of doing so, or Design and operation lacks redundancy, e.g., no back-up power for electrical gates.
Small	 Design and/or performance deficiencies may exist, but are actively monitored and are not expected to significantly increase failure potential over the near term, or Design and operation exhibits redundancy
Very Small	 Dams that are decommissioned, deactivated, significantly removed, reservoir drained or otherwise safeguarded, or Failure modes analysis indicates very low probability of failure (e.g., small robust concrete gravity dam).

RISK LEVEL CHART¹

Failure Probability	Consequence of Failure Classification ²							
Rating	Extreme	Very High	Very High High		Low ³			
Large	1	1	1	2*	3			
Moderate	2*	2*	2*	3	4			
Small	3	3	4	4	5			
Very Small	3	4	4	5	5			

Risk Level Definitions:

1 - ALERT (immediate attention required):

Enhanced monitoring / consultants involved / repairs ASAP / may restrict reservoir operation / DEP reviewed / CWR or RWM notified, possible Order

2 - CAUTION (considerable work to do):

Increased monitoring / planning for rehab / may modify reservoir operation / DEP reviewed / may request submission of Inspection Report (perhaps weekly), OMS, or early DSR / CWR or WM made aware of situation. ***NOTE:** Risk Level 2 further defined by the following:

- (a) owner is not actively working on correcting the deficiency, OR
- (b) owner is actively working on an approved project to correct the deficiency

3 - STABLE:

Regular owner inspections plus monitoring operation under peak loading / rehab hazardous conditions / may request submission of Annual Inspection Report, OMS, DEP or early DSR / may audit on an increased frequency

4 - NO CONCERNS:

Included in regular audit program to identify any changes / normal operation

5 - EFFECTUAL (significant and low consequence dams ONLY): Significant consequence dams included in regular audit program to monitor failure consequence only / normal operation

²Schedule 1 - Dam Classification, Dam Safety Regulation, B.C. Reg. 40/2016

³Low consequence dams are not included in the audit program at this time.

¹Risk Level Chart is only a guide, if the Dam Safety Officer deem the risk level of the dam to be different than that prescribed by the Risk Level Chart, the rationale for the variation should be provided by the Dam Safety Officer in the Comments & Site Observations field on the first page.