1 2	Q.	(Reference Application Volume 2, Topsail Hydro Plant Refurbishment, page 1) It is stated " <i>The gate shaft is bent from repeated attempts to force gate closure</i> ." What led to the " <i>repeated attempts to force gate closure</i> " and is this the likely cause for the need to replace the gate?
3		
4		
5		the second se
6	A.	The existing intake gate, associated gate slide and frame are deteriorated. The
7		deteriorated condition is what necessitates the replacement of the intake gate in 2021.
8		· · · ·
9		Newfoundland Power will defer the replacement of deteriorated equipment as long as the
10		equipment can continue to operate safely and reliably. However, continued operation of
11		deteriorated equipment can lead to further deterioration.
12		
13		The damage to the shaft resulted from the unavoidable need to operate the intake gate at
14		the Topsail plant to support recent work on the penstock. Because the deteriorated gate
15		does not seal well, repeated operation of the mechanism was required to ensure water
16		leakage was minimized.
17		
18		The bend in the shaft was a consequence of the repeated operation of the already
19		deteriorated gate mechanism. It did not cause the deterioration.