Q. 1 Re: Upgrade Burnt Dam Spillway, Bay d'Espoir, Tab 8: 2 Has the spilling in extreme floods, which Hydro estimates to be a 1 in 10,000 year 3 occurrence, been factored into the Hatch Analysis? 4 5 6 A. The fuse plug at Burnt Dam was constructed in the late eighties to prevent 7 breaching of the main dam in the event of a 1 in 10,000 year flood. In the event of 8 such a flood, even if the Burnt Dam Spillway was working properly, the spillway would not be able to release water as fast as it would be collected in the reservoir 9 10 due to precipitation and drainage from the surrounding terrain. Under this 11 condition the water level in the reservoir will rise to a prescribed level and the fuse 12 plug will rupture thereby releasing water in a controlled manner, minimizing 13 damage to the assets and the environment. 14 15 Failure of one or both gates to open at Burnt Dam Spillway could result in breaching 16 of the fuse plug under weather conditions a lot less severe than what would occur in a 1 in a 10,000 year flood. Hatch's analysis was concerned with the reliability of 17 the spillway gates to operate when required, regardless of the fuse plug design 18 19 criteria for rupture if a 1 in 10,000 years flood, and therefore that was not a factor 20 in the analysis.