Q. 1 Re: Upgrade Burnt Dam Spillway, Bay d'Espoir, Tab 8: 2 Please detail the problems related to the reliability of the diesel generators that 3 supply power to the hydraulic structure as outlined by Hydro on page 9. 4 5 6 A. There are three diesel generators installed at Burnt Dam, referred to as Units 1, 2, 7 and 3. Unit 1 is 60 KW, Unit 2 is 25 KW, and Unit 3 is 75 KW. Units 2 and 3 are 46 8 years old and were installed in 1966 whereas Unit 1 was replaced in 2009. Unit 1, the newest generator, runs during the winter to provide power to the 9 10 accommodations and gate structures with the two older units serving as back-up. Unit 2 is the smallest unit and runs continuously during the summer with the other 11 two units as back-up. It can meet the power requirements of the site during the 12 13 summer except when a gate has to be operated. When the latter is required, one of 14 the larger units has to be operated. 15 16 Units 2 and 3 are old and have exceeded their service life. Unit 2 is experiencing 17 repetitive problems with its oil seal, bearings, fuel pump and injectors. Unit 3 is 18 experiencing problems with engine oil leakage, its radiator, and a drop in its 19 performance in meeting load. The probability of failure increases with aging of the 20 units.