Q. 1 **RE: p. B-139** Provide better particulars of the industry standards with 2 respect to life expectancy of the flooded and non-flooded battery systems 3 and of the factors affecting reliability at or beyond life expectancy. 4 5 6 A. Hydro has 40 years of experience in the design and maintenance of battery 7 systems. This experience combined with discussions with other utilities and 8 manufacturers confirms the life expectancy of the battery systems as 9 proposed. It is in this context that industry standard is given. 10 11 Factors that can affect reliability and life expectancy are: 12 1. Ambient temperature 13 2. Proper charging voltage (ripple) 14 3. Quantity of deep discharges 15 4. Proper watering (flooded cells only) 16 5. Corrosion of terminals 17 6. Warping of plates (flooded cells) 7. 18 Bulging of cases (VRLA) 19 8. Cracks in the cell walls 20 9. Preventative maintenance