Page 1 of 1

- 1Q.Reference: Fair Return and Capital Structure for Newfoundland Power (NP),2Evidence of Laurence D. Booth, April 2024, Appendix C, page 12, lines 23-26.3
- 4 "However, it is well known that betas are biased when estimated over high frequencies
 5 such as using weekly data. The reason for this is that many stocks do not trade that
 6 actively, so their prices are a bit 'stale' and do not reflect recent events."
- Please provide evidence that the companies in Concentric's North American Electric
 proxy group, U.S. Electric proxy group, and Canadian proxy group do not trade
 actively.

7

11

22

25

- 12 A. Dr. Booth has not checked the trading frequency of Concentric's sample of firms since 13 they are not the question of concern. To explain, all betas add up to the market average of 1.0, but if a firm does not trade then its price is stale so that the return shows no 14 variation. As a result, its beta is lower than it would be if it were traded like thickly traded 15 firms. If we have a large number of biased low estimates for thinly traded firms, then ipso 16 17 facto the betas for thickly traded firms are over-estimated. Utilities tend to be thickly 18 traded as they are heavy capitalisation stocks, so the implication is that their betas estimated over actively traded periods are over-estimated. This tendency will then be 19 worse as the estimation period gets smaller as the thin trading problem increases, so 20 moving to weekly from monthly data will bias the betas for actively traded firms. 21
- This is the logic discussed in Dr. Booth's Appendix C based on the published research of
 Hawawini in the Financial Analyst Journal (May 1993), where Hawawini concluded:
- "This suggests that betas measured over return intervals of arbitrary length will tend to
 be biased. In particular, securities with relatively small market values may appear to be
 less risky than they truly are, whereas securities with relatively large market values may
 appear to be more risky than they truly are."