1 2 3	Q.	Vo Ris	Volume 2: Cost of Capital: Expert Opinion of James Coyne-Capital Structure and Risk Profile				
3 4		Re	Reference: "2025/2026 General Rate Application." Newfoundland Power Inc.				
5		De	December 12, 2023, vol. 2. Expert Evidence, "Cost of Capital." Concentric Energy				
6		Ad	Advisors Inc., November 7, 2023, ch. V(B)(1), p. 43, fig. 26.				
7		a) Why were 30-year government bonds chosen for the risk-free rate versus the 10-					
8		-	year?				
9		b)	The yield on the 30-year government bonds is imputed based on the forecasted				
10 11			yield on the 10-year government bond and the historical spread between 10-year and 30-year yields. The 30-year Canada benchmark bond yields are publicly				
12			available and are fairly liquid. Why was the direct yield on the Canada 30-year				
13			benchmark not chosen?				
14		c)	Why was weekly beta chosen over monthly historical beta for this selection?				
15		d)	There is no evidence to show that the comparable company's beta is being				
16			unlevered to determine Newfoundland Power's beta. Please advise the reason for				
17			this selection?				
18		e)	How is the US Market Risk Premium relevant to Newfoundland Power's cost of				
19			equity calculation?				
20		``					
21	A.	a)	Concentric uses the 30-year government bond yield as the risk-free rate because it				
22			vers or longer in most instances) and because utilities generally issue dobt with				
$\frac{23}{24}$			longer maturities than 10 years				
2 1 25			longer maturnes man 10 years.				
26		b)	Concentric relies on the forecast government bond yield rather than the current				
27		0)	average government bond vield. A longer-term forecast of 30-year government bonds				
28			is not available for Canada. For that reason, Concentric uses the 10-year forecast				
29			government bond yield from Consensus Economics and then adds the historical				
30			spread between 10- and 30-year government bonds. Please see the response to				
31			Request for Information PUB-NP-117 regarding why Concentric prefers the forecast				
32			government bond yield rather than the current average.				
33							
34		c)	The following excerpt from Mr. Coyne's January 2020 report filed with the Alberta				
35			Utilities Commission explains why Concentric prefers weekly instead of monthly				
36			betas in the CAPM analysis. ¹				
57			Table 2 more that down in the statistics for any history is had an add				
20 20			<i>Table 2 presents the descriptive statistics for each beta using both monthly</i> and work water and two and five year periods. As my analysis				
37 10			and weekly returns and two- and five-year periods. As my analysis domonstrates in the Table below, five years of weekly data provides the best				
40 41			uemonstrates in the radius detow, five years of weekly duta provides the dest regression fit and the resulting adjusted beta coefficient has the greatest				
42			explanatory power.				

¹ Prepared Direct Testimony of James M. Coyne, Alberta Utilities Commission 2021 Generic Cost of Capital, Exhibit No. 24110-X0167, January 20, 2020, at 17-18.

	Table 2: Beta Statistics					
	Raw	Adj.	t-			Data
Group Beta as of November 29, 2019	Beta	Beta	Statistic	R2	R	Points
S&P/TSX Utilities Index/ S&P/TSX						
2 Years Monthly	0.579	0.719	3.619	0.373	0.611	24
2 Years Weekly	0.370	0.580	4.490	0.165	0.406	104
5 Years Monthly	0.481	0.654	3.254	0.154	0.393	60
5 Years Weekly	0.658	0.772	10.930	0.316	0.562	261
S&P Utilities Index/ S&P 500						
2 Years Monthly	0.187	0.458	1.261	0.067	0.260	24
2 Years Weekly	0.330	0.554	4.404	0.160	0.400	104
5 Years Monthly	0.158	0.439	1.219	0.025	0.158	60
5 Years Weekly	0.315	0.543	5.215	0.095	0.308	261

As Table 2 shows, all of the weekly beta estimates are statistically significant at the 95 percent confidence level, the standard threshold to accept that regression results actually explain the relationship and are not due to chance. A t-statistic in excess of 2.00 (two-tailed test) is required to reach 95 percent confidence in the two-year weekly beta; and a t-statistic in excess of 1.96 is required to reach 95 percent confidence level. The confidence in the five-year weekly beta. The two-year monthly results would require a t-statistic in excess of 2.07 to fall within the 95 percent confidence level. The Canadian utilities index shows stronger regression results for the monthly indexes than the U.S. and are statistically significant, though monthly results are weaker than weekly. The monthly results for the U.S. fall significantly below the level required to satisfy the 95 percent confidence threshold. Even the five-year monthly results would require a t-statistic of 2.00 and does not satisfy the 95 percent confidence threshold for a two-tailed test. It is evident from the Table above, based on the strength of the t-statistics, that five-year weekly return data is superior in terms of predicting future returns.

d) While Concentric is aware of methods to adjust beta for differences in financial
leverage such as the Hamada equation, Concentric has not included that adjustment
because the equity ratio for Newfoundland Power is lower than most of the U.S.
companies in the North American electric proxy group. Making a leverage adjustment
would cause the CAPM results to increase for the North American electric proxy
group. This further demonstrates that Concentric's ROE analysis is conservative.

1	e)	As explained on page 27 of Concentric's Cost of Capital report, Volume 2, the
2		Canadian and U.S. economies and capital markets are highly integrated and exhibit
3		strong correlation across a variety of metrics, including GDP growth and government
4		bond yields. On that basis, Concentric concludes:
5		
6		Based on these macroeconomic indicators, there are no fundamental
7		dissimilarities between Canada and the U.S. (in terms of economic growth,
8		inflation, or government bond yields) that would cause a reasonable
9		investor to have a materially different return expectation for a group of
10		comparable risk utilities in the two countries. Our cost of capital analysis
11		is framed by the conclusion that Canada and the U.S. have comparable
12		macroeconomic and investment environments.
13		
14		For that reason, Concentric believes it is reasonable to use an average of the Canadian
15		and U.S. market risk premium in the CAPM analysis in this proceeding.