Filed: 2017-09-25 EB-2017-0086 Exhibit E1 Tab 1 Schedule 1 Page 1 of 2

COST OF CAPITAL SUMMARY

1. The evidence, in the following tables 1 through 3, shows a summary of Enbridge's cost of capital for each of the 2017 Board Approved (EB-2016-0215), the 2018 placeholder (EB-2012-0459), and the 2018 Updated Forecast.

TABLE 1
COST OF CAPITAL SUMMARY

Line		EB-2016	EB-2016-0215 - 2017 Approved (excluding CIS)					
No.		Principal	Component	Cost Rate	Return	Return		
		(\$Millions)	%	%	%	(\$Millions)		
1.	Long-term debt	3,739.6	62.28%	4.83%	3.008%	180.6		
2.	Short-term debt	3.2	0.05%	1.23%	0.001%	0.0		
3.	Preferred shares	100.0	1.67%	2.24%	0.037%	2.2		
4.	Common Equity	2,161.6	36.00%	8.78%	3.161%	189.8		
5.	Total	6,004.4	100.00%	_	6.207%	372.7		

TABLE 2 COST OF CAPITAL SUMMARY

Line		EB-2012-0459 - 2018 Placeholder (excluding CIS)					
No.		Principal	Component	Cost Rate	Return	Return	
		(\$Millions)	%	%	%	(\$Millions)	
1.	Long-term debt	3,734.3	60.76%	5.39%	3.275%	201.3	
2.	Short-term debt	98.9	1.61%	4.30%	0.069%	4.3	
3.	Preferred shares	100.0	1.63%	4.64%	0.076%	4.6	
4.	Common Equity	2,212.4	36.00%	10.27%	3.697%	227.2	
5.	Total	6,145.6	100.00%	<u> </u>	7.117%	437.4	

Filed: 2017-09-25 EB-2017-0086 Exhibit E1 Tab 1 Schedule 1 Page 2 of 2

TABLE 3
COST OF CAPITAL SUMMARY

Line		2018 Updated Forecast (excluding CIS)					
No.		Principal	Component	Cost Rate	Return	Return	
		(\$Millions)	%	%	%	(\$Millions)	
1.	Long-term debt	3,858.2	61.84%	4.71%	2.913%	181.7	
2.	Short-term debt	34.8	0.56%	1.60%	0.009%	0.6	
3.	Preferred shares	100.0	1.60%	2.72%	0.044%	2.7	
4.	Common Equity	2,246.1	36.00%	8.84%	3.182%	198.6	
5.	Total	6,239.1	100.00%	_	6.148%	383.6	

- 2. As reflected in Table 3 versus Table 2 above, the 2018 Updated Forecast capital structure has been updated in accordance with the Board's EB-2012-0459 Decision and Rate Order requiring the return on equity to be re-set each year using the Board approved parameters, and that the cost of debt be updated annually using the most current information, including information on actual amounts and rates associated with debt issued in the prior year.
- 3. Details of the 2018 Updated Forecast financing costs, including forecast debt issuances and cost rates, are included in Exhibit E1, Tab 3, Schedule 1. Evidence with respect to the updated 2018 return on equity included within the 2018 updated allowed revenue and revenue deficiency calculation is found in evidence at Exhibit E1, Tab 2, Schedule 1.
- 4. Further details of each of the elements of the 2018 updated forecast capital structure, and the determination of the overall cost of capital and resulting deficiency in earnings are found at Exhibits E2, Tab 1, Schedules 1 through 5.

Filed: 2017-09-25 EB-2017-0086 Exhibit E1 Tab 2 Schedule 1 Page 1 of 1

RETURN ON EQUITY CALCULATION FOR 2018

- 1. In its EB-2012-0459 Decision with Reasons issued July 17, 2014, the Board determined that "the Cost of Capital will be re-set each year using the Board's established approach" (p.10). The Board further concluded that "the allowed ROE for purposes of calculating the ESM should be the ROE used to determine the allowed revenue requirement" (p.14) and that "[T]he preferred approach is to update the return on equity each year during the annual rate adjustment proceeding using the Board-approved parameters. The Board publishes these figures in November which should provide Enbridge with adequate time to incorporate them into the final rates" (p.55).
- 2. The Company is unable to provide the forecast at this time using the prescribed calculation, but will update this evidence when the Board issues its Cost of Capital Parameter Updates for 2018 Applications in November of this year. For purposes of deriving estimated rate impacts for the 2018 application, the Company has applied the value of 8.84%, which is based on the July 2017 inputs being applied to the Board's established approach to calculating ROE.

Witness: M. Suarez

Filed: 2017-09-25 EB-2017-0086 Exhibit E1 Tab 3 Schedule 1 Page 1 of 3

2018 COST OF DEBT

- As set out in the EB-2012-0459 Decision and Rate Order (pages 2 and 3),
 Enbridge's cost of debt is to be updated each year from 2015 to 2018 using the
 most current information available, including information about the actual amounts
 and rates associated with any debt issued in the prior year.
- 2. Enbridge's forecast cost of debt for 2018 is set out within Table 1, and explained below.

TABLE 1
COST OF DEBT SUMMARY

Line		2018				
No.		Principal	Component	Cost Rate	Return	Return
		(\$Millions)	%	%	%	(\$Millions)
1.	Long-term debt	3,858.2	61.84%	4.71%	2.913%	181.7
2.	Short-term debt	34.8	0.56%	1.60%	0.009%	0.6
3.	Preferred shares	100.0	1.60%	2.72%	0.044%	2.7
4.	Total	3,993.0	64.00%	_	2.966%	185.0

- 3. As required by the Board's EB-2012-0459 Decision and Rate Order, Enbridge has updated its cost of debt by taking account of its forecast 2018 rate base for ratemaking purposes, its actual level and cost of debt, which has been updated to include actual debt issuances through 2016, and to also include the impact of updated forecast 2017 and 2018 debt issuances.
- 4. The terms of Enbridge's updated forecast 2017 long term debt issuances, as shown

Witnesses: R. Craddock

R. Small

Filed: 2017-09-25 EB-2017-0086 Exhibit E1 Tab 3 Schedule 1 Page 2 of 3

in Table 2 below, has changed modestly as compared to the forecast within EB-2016-0215. While the amount of the debt issuances remains as forecast in the 2017 Rate Adjustment proceeding, the planned issuance timing has been deferred from August to November. The effective cost rates for the debt issuances are now forecast to be lower than was indicated in the 2017 Rate Adjustment proceeding (current forecast of 2.95% and 3.82%, as compared to the 3.25% and 4.02% forecast within EB-2016-0215).

TABLE 2

		Amount			Canada	Corporate		Amortized	Effective
_	Item No.	(\$MM)	Issue Date	Term (Yrs)	Yield	Spread	Coupon	Issue Costs	Cost
	1	150	November 2017	10	1.90%	1.00%	2.90%	0.05%	2.95%
	2	150	November 2017	30	2.40%	1.40%	3.80%	0.02%	3.82%

5. For 2018, Enbridge plans to issue \$300 million of debt, the details of which can be found in Table 3 below. The issuances will fund growth in rate base.

TABLE 3

	Amount			Canada	Corporate		Amortized	Effective	
Item No.	(\$MM)	Issue Date	Term (Yrs)	Yield	Spread	Coupon	Issue Costs	Cost	
1	150	August 2018	10	2.30%	1.05%	3.35%	0.05%	3.402%	
2	150	August 2018	30	2.70%	1.45%	4.15%	0.02%	4.171%	

- 6. Details of all elements of Enbridge's term debt forecast for the 2018 Updated Forecast, are set out within Exhibit E2, Tab 1, Schedule 2.
- 7. The calculation of the average cost rate for Enbridge's term debt, which equates to 4.71%, is set out at Exhibit E2, Tab 1, Schedule 1, page 2.

Witnesses: R. Craddock

R. Small

Filed: 2017-09-25 EB-2017-0086 Exhibit E1 Tab 3 Schedule 1 Page 3 of 3

There are no preferred share issuances planned for 2018. Enbridge continues to have \$100 million of preference shares, with a 2018 cost rate of 2.72%.

- 8. As explained in Exhibit B1, Tab 1, Schedule 1, Enbridge's rate base for ratemaking purposes for 2018, exclusive of CIS (which has a different cost of capital, in accordance with the EB-2011-0226 Settlement Agreement) is \$6,239.1 million. Under Enbridge's capital structure, which includes a 64% weighting of debt and preferred shares, this means that Enbridge's level of debt for ratemaking purposes in 2018 is \$3,993.0 million.
- In total, Enbridge's cost of debt (exclusive of CIS / CC) to be included in 2018
 Allowed Revenue is \$185.0 million.

Witnesses: R. Craddock

R. Small

Filed: 2017-09-25 EB-2017-0086 Exhibit E2 Tab 1 Schedule 1 Page 1 of 2

COST OF CAPITAL 2018 UPDATED FORECAST

Col. 1 Col. 2 Col. 3 Col. 4

Line No.		Principal Excl. CC/CIS	Component	Cost Rate	Return Component
		(\$Millions)	%	%	%
1.	Long and Medium-Term Debt	3,858.2	61.84	4.71	2.913
2.	Short-Term Debt	34.8	0.56	1.60	0.009
3.		3,893.0	62.40		2.922
4.	Preference Shares	100.0	1.60	2.72	0.044
5.	Common Equity	2,246.1	36.00	8.84	3.182
6.		6,239.1	100.00		6.148
7.	Rate Base	(\$Millions)			6,239.1
8.	Utility Income	(\$Millions)			323.7
9.	Indicated Rate of Return				5.188
10.	Deficiency in Rate of Return				(0.960)
11.	Net Deficiency	(\$Millions)			(59.9)
12.	Gross Deficiency	(\$Millions)	(excl. CC/CIS)		(81.5)
13.	Customer Care/CIS Deficiency	(\$Millions)	(\$131.1 vs \$126.6)		(4.5)
14.	Total Gross Revenue Deficiency	(\$Millions)			(86.0)
15.	Revenue at Existing Rates	(\$Millions)			2,896.2
16.	Allowed Revenue	(\$Millions)			2,982.2
17.	Gross Revenue Deficiency	(\$Millions)			(86.0)

Filed: 2017-09-25 EB-2017-0086 Exhibit E2 Tab 1 Schedule 1 Page 2 of 2

CALCULATION OF COST RATES FOR CAPITAL STRUCTURE COMPONENTS 2018 UPDATED FORECAST

		Col. 1	Col. 2	Col. 3
Line No.		Average of Monthly Averages		Carrying Cost
	Long and Medium-Term Debt	(\$Millions)		(\$Millions)
1. 2. 3.	Debt Summary Unamortized Finance Costs (Profit)/Loss on Redemption	3,888.1 (29.9)		183.0 - -
4.		3,858.2		183.0
5.	Calculated Cost Rate	=	4.71%	:
	Short-Term Debt			
6.	Calculated Cost Rate	=	1.60%	:
	Preference Shares			
7. 8. 9.	Preference Share Summary Unamortized Finance Costs (Profit)/Loss on Redemption	100.0 - -		2.7 - -
10.		100.0		2.7
11.	Calculated Cost Rate	=	2.72%	:
	Common Equity			
12.	Board Formula ROE		8.84%	

Filed: 2017-09-25 EB-2017-0086 E:xhibit E2 Tab 1 Schedule 2 Page 1 of 1

SUMMARY STATEMENT OF PRINCIPAL AND CARRYING COST OF TERM DEBT 2018 UPDATED FORECAST

Col. 1 Col. 3 Col. 2 Average of Line Coupon Monthly Averages Effective Carrying No. Rate Maturity Date Principal Cost Rate Cost (\$Millions) (\$Millions) Medium Term Notes 8.85% October 2, 2025 20.0 8.970% 1. 1.8 2. 7.60% October 29, 2026 100.0 8.086% 8.1 November 3, 2027 6.711% 3. 6.65% 100.0 6.7 4. 6.10% May 19, 2028 100.0 6.161% 6.2 July 5, 2023 5. 6.05% 100.0 6.383% 6.4 November 15, 2032 6.950% 6. 6.90% 150.0 10.4 7. 6.16% December 16, 2033 150.0 6.180% 9.3 February 25, 2036 8. 5.21% 300.0 5.183% 15.5 4.77% December 17, 2021 175.0 9. 5.310% 9.3 10. 4.04% November 23, 2020 200.0 5.209% 10.4 4.95% November 22, 2050 200.0 11. 4.990% 10.0 12. 4.95% November 22, 2050 100.0 4.731% 4.7 13. 4.04% November 23, 2020 200.0 2.801% 5.6 4.50% November 23, 2043 4.198% 14. 200.0 8.4 15. 3.15% August 22, 2024 215.0 3.241% 7.0 16. 4.00% August 22, 2044 215.0 3.889% 8.4 17. 4.00% August 22, 2044 170.0 4.436% 7.5 September 11, 2025 3.31% 18. 400.0 3.619% 14.5 19. 2.50% August 5, 2026 300.0 3.423% 10.3 November 1, 2027 20. 2.90% 150.0 2.952% 4.4 21. 3.80% November 1, 2047 150.0 3.821% 5.7 22. August 15, 2028 3 35% 56.3 3.402% 1.9 23. 4.15% August 15, 2048 56.3 4.171% 3,807.6 24. 174.8 Long-Term Debentures 25. 9.85% December 2, 2024 85.0 9.910% 8.4 26. 85.0 8.4 27. Removal of separately treated CIS 64% assumed debt of 2018 \$7.0M (0.2)rate base value (4.5)5.350% 28. Total Term Debt 3,888.1 183.0

Filed: 2017-09-25 EB-2017-0086 Exhibit E2 Tab 1 Schedule 3 Page 1 of 1

UNAMORTIZED DEBT DISCOUNT AND EXPENSE AVERAGE OF MONTHLY AVERAGES 2018 UPDATED FORECAST

Col. 1

Line No.		Unamortized Debt Discount and Expense
		(\$Millions)
1.	January 1	31.3
2.	January 31	31.0
3.	February	30.7
4.	March	30.3
5.	April	30.0
6.	May	29.6
7.	June	29.3
8.	July	29.0
9.	August	30.3
10.	September	30.0
11.	October	29.6
12.	November	29.3
13.	December	28.9
14.	Average of Monthly Averages	29.9

Filed: 2017-09-25 EB-2017-0086 Exhibit E2 Tab 1 Schedule 4 Page 1 of 1

PREFERENCE SHARES SUMMARY STATEMENT OF PRINCIPAL AND CARRYING COST 2018 UPDATED FORECAST

			Col. 1	Col. 2	Col. 3
Line No.	Coupon Rate	Maturity Date	Average of Monthly Averages Principal	Effective Cost Rate	Carrying Cost
			(\$Millions)		(\$Millions)
	Floating Cu ir Value	mulative Redeemable Convertible			
1.	N/A	Group 3 Series D	100.0	2.72%	2.7
2.	Total		100.0		2.7

Filed: 2017-09-25 EB-2017-0086 Exhibit E2 Tab 1 Schedule 5 Page 1 of 1

UNAMORTIZED PREFERENCE SHARE ISSUE EXPENSE AVERAGE OF MONTHLY AVERAGES 2018 UPDATED FORECAST

Col. 1

Line No.		Unamortized Issue Expense
		(\$Millions)
1.	January 1	-
2.	January 31	-
3.	February	-
4.	March	-
5.	April	-
6.	May	-
7.	June	-
8.	July	-
9.	August	-
10.	September	-
11.	October	-
12.	November	-
13.	December	-
14.	Average of Monthly Averages	