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COST OF CAPITAL SUMMARY

 The evidence, in the following tables 1 through 3, shows a summary of Enbridge's cost of capital for each of the 2015 Board Approved (EB-2014-0276), the 2016 placeholder (EB-2012-0459), and the 2016 Updated Forecast.

TABLE 1
COST OF CAPITAL SUMMARY

Line		EB-201	EB-2014-0276 - 2015 Approved (excluding CIS)					
No.		Principal	Component	Cost Rate	Return	Return		
		(\$Millions)	%	%	%	(\$Millions)		
1.	Long-term debt	2,973.3	60.54%	5.14%	3.111%	152.8		
2.	Short-term debt	70.0	1.42%	1.45%	0.021%	1.0		
3.	Preferred shares	100.0	2.04%	2.20%	0.045%	2.2		
4.	Common Equity	1,768.1	36.00%	9.30%	3.348%	164.5		
5.	Total	4,911.4	100.00%		6.525%	320.5		

TABLE 2 COST OF CAPITAL SUMMARY

Line		EB-2012-	EB-2012-0459 - 2016 Placeholder (excluding CIS)					
No.		Principal	Component	Cost Rate	Return	Return		
		(\$Millions)	%	%	%	(\$Millions)		
1.	Long-term debt	3,422.6	60.43%	5.33%	3.221%	182.4		
2.	Short-term debt	102.1	1.80%	3.35%	0.060%	3.4		
3.	Preferred shares	100.0	1.77%	4.32%	0.076%	4.3		
4.	Common Equity	2,038.9	36.00%	10.12%	3.643%	206.4		
5.	Total	5,663.6	100.00%	_	7.000%	396.5		

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TABLE 3
COST OF CAPITAL SUMMARY

Line 2016 Updated Forecast (excluding CIS) Principal Cost Rate Return No. Component Return (\$Millions) % (\$Millions) % 1. Long-term debt 3,445.7 5.04% 173.7 59.62% 3.005% 2. Short-term debt 2.65% 1.52% 0.040% 2.3 153.4 Preferred shares 2.16% 2.2 100.0 1.73% 0.037% Common Equity 2,080.8 36.00% 9.13% 3.287% 190.0 5. Total 5,779.9 100.00% 6.369% 368.2

- 2. As reflected in Table 3 versus Table 2 above, the 2016 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 2016 Updated Forecast financing costs, including forecast debt issuances and cost rates for the remainder of 2015 and during 2016, are included in Exhibit E1, Tab 3, Schedule 1. Evidence with respect to the updated 2016 return on equity included within the 2016 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 2016 updated forecast capital structure, and the determination of the overall cost of capital and resulting deficiency in earnings are found at Exhibit E2, Tab 1, Schedules 1 through 5.

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RETURN ON EQUITY CALCULATION FOR 2016

1. The purpose of this evidence is to provide the Return On Equity ("ROE") to be used as part of the cost of capital determination for the proposed 2016 revenue requirement, as well as for the calculation of Earnings Sharing, if any, for 2016. The Company has calculated the ROE using the methodology provided in the Report of the Board on the Cost of Capital for Ontario's Regulated Utilities (Cost of Capital Report) issued December 2009. The following illustrates how the ROE is calculated in accordance with the Cost of Capital Report:

$$ROE_t = 9.75\% + [0.5 \times (LCBF_t - 4.25\%)] + [0.5 \times (UBS_t - 1.415\%)]$$

Where:

- ROE is set in the month that is three months in advance of the effective date for rate implementation.
- LCBF is the Long Canada Bond Forecast determined as the average 3-month out and 1-year out yields of the 10-year Government of Canada (GoC) Bond Yield Forecasts (as sourced from Consensus Economics) plus the actual spread of the 30-year over the 10-year GoC (as published by the Bank of Canada) in the month of analysis.
- UBS is the A-rated Utility Bond Yield Spread between the Canada 30-year Utility bond index yield (as reported by Bloomberg L.P.) and the 30-year GoC (as published by the Bank of Canada) in the month of analysis.
- 9.75% is the Base ROE,
- 4.25% is the Base LCFB, and
- 1.415% is the Base UBS.
- 2. In its EB-2012-0459 Decision 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). "[T]he preferred approach is to update the return on equity each year during the annual rate adjustment proceeding using the Board-approved

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parameters. The Board publishes these figures in November which should provide Enbridge with adequate time to incorporate them into the final rates" (p.55).

- 3. The Board issued its Cost of Capital Parameter Updates for 2016 Applications (the "Update") on October 15, 2015 where the ROE effective January 1, 2016 is determined to be 9.19%.
- 4. The following is the derivation of the ROE of 9.19% for 2016 in accordance with the Update. The LCBF of 2.706% is derived at Step 3 of the Update and the UBS of 1.831% is determined at Step 1 so that:

ROE $_{2016}$ = 9.75% + [0.5 x (LCBF $_{2016}$ - 4.25%)] + [0.5 x (UBS $_{2016}$ - 1.415%)] ROE $_{2016}$ = 9.75% + [0.5 x (2.706 % - 4.25%)] + [0.5 x (1.831% - 1.415%)] ROE $_{2016}$ = 9.19%

Witness: M. Suarez

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2016 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 cost of debt for 2016 is set out within Table 1, and explained below.

TABLE 1
COST OF DEBT SUMMARY

Line		2016	2016 Updated Forecast (excluding CIS)					
No.		Principal	Component	Cost Rate	Return	Return		
		(\$Millions)	%	%	%	(\$Millions)		
1.	Long-term debt	3,445.7	59.62%	5.04%	3.005%	173.7		
2.	Short-term debt	153.4	2.65%	1.52%	0.040%	2.3		
3.	Preferred shares	100.0	1.73%	2.16%	0.037%	2.2		
4.	Total	3,699.1	64.00%	_	3.082%	178.2		

- 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 actual level and cost of debt, which has been updated to include actual debt issuances through 2014, and to also include the impact of updated forecast 2015 and 2016 debt issuances.
- 4. Enbridge's updated 2015 forecast debt issuances are somewhat different from what had been forecast within the EB-2014-0276 proceeding, largely because circumstances evolved from the time that Enbridge prepared its evidence in that proceeding. The updated forecast 2015 debt issuances have higher coupons than forecast within EB-2014-0276 as a result of anticipated credit spreads widening by

Witnesses: R. Craddock

R. Small

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60 basis points and 65 basis points for term debt with a 10 year term and a 30 year term, respectively. The widening credit spreads are attributable to concerns over commodity prices as well as geopolitical uncertainty.

5. For 2016, Enbridge plans to issue \$200 million of debt, the details of which can be found in Table 2 below. The Company does not have any debt maturities in 2016.

Table 2

	Amount			Canada	Corporate		Amortized	Effective
Item No.	(\$MM)	Issue Date	Term (Yrs)	Yield	Spread	Coupon	Issue Costs	Cost
1	200	16-0ct	10	2.84%	1.40%	4.24%	0.05%	4.29%

- 6. Details of all elements of Enbridge's term debt forecast for the 2016 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 5.04%, is set out at Exhibit E2, Tab 1, Schedule 1, page 2.
- 8. There are no preferred share issuances planned for 2016. Enbridge continues to have \$100 million of preference shares, with a 2016 cost rate of 2.16%.
- 9. As explained in Exhibit B1, Tab 1, Schedule 1, Enbridge's rate base for 2016, exclusive of CIS (which has a different cost of capital, in accordance with the EB-2011-0226 Settlement Agreement) is \$5,779.9 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 2016 is \$3,699.1 million.
- In total, Enbridge's cost of debt (exclusive of CIS / CC) to be included in 2016
 Allowed Revenue is \$178.2 million.

Witnesses: R. Craddock

R. Small

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COST OF CAPITAL 2016 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	3,445.7	59.62	5.04	3.005
2.	Short-Term Debt	153.4	2.65	1.52	0.040
3.		3,599.1	62.27		3.045
4.	Preference Shares	100.0	1.73	2.16	0.037
5.	Common Equity	2,080.8	36.00	9.13	3.287
6.		5,779.9	100.00		6.369
7.	Rate Base	(\$Millions)			5,779.9
8.	Utility Income	(\$Millions)			291.9
9.	Indicated Rate of Return				5.050
10.	Deficiency in Rate of Return				(1.319)
11.	Net Deficiency	(\$Millions)			(76.2)
12.	Gross Deficiency	(\$Millions)	(other than CC	- CIS)	(103.7)
13.	Customer Care/CIS Deficiency	(\$Millions)	(\$122.4 vs \$11	8.1)	(4.3)
14.	Total Gross Revenue Deficiency	(\$Millions)			(108.0)
15.	Revenue at Existing Rates	(\$Millions)			2,811.3
16.	Allowed Revenue	(\$Millions)			2,919.3
17.	Gross Revenue Deficiency	(\$Millions)			(108.0)
	Common Equity				
18.	Allowed Rate of Return				9.130
19.	Earnings on Common Equity				5.467
20.	Deficiency in Common Equity Return				(3.663)

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SUMMARY STATEMENT OF PRINCIPAL AND CARRYING COST OF TERM DEBT 2016 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)
Mediu	m Term N	otes			
1.	8.85%	October 2, 2025	20.0	8.970%	1.8
2.	7.60%	October 29, 2026	100.0	8.086%	8.1
3.	6.65%	November 3, 2027	100.0	6.711%	6.7
4.	6.10%	May 19, 2028	100.0	6.161%	6.2
5.	6.05%	July 5, 2023	100.0	6.383%	6.4
6.	6.90%	November 15, 2032	150.0	6.950%	10.4
7.	6.16%	December 16, 2033	150.0	6.180%	9.3
8.	5.21%	February 25, 2036	300.0	5.183%	15.5
9.	4.77%	December 17, 2021	175.0	5.310%	9.3
10.	5.16%	December 4, 2017	200.0	5.220%	10.4
11.	4.04%	November 23, 2020	200.0	5.209%	10.4
12.	4.95%	November 22, 2050	200.0	4.990%	10.0
13.	4.95%	November 22, 2050	100.0	4.731%	4.7
14.	4.04%	November 23, 2020	200.0	2.801%	5.6
15.	4.50%	November 23, 2043	200.0	4.198%	8.4
16.	1.85%	April 24, 2017	-	1.967%	_ 1
17.	3.15%	August 22, 2024	215.0	3.241%	7.0
18.	4.00%	August 22, 2044	215.0	3.889%	8.4
19.	3.75%	September 16, 2025	150.0	3.802%	5.7
20.	4.59%	September 16, 2045	150.0	4.614%	6.9
21.	3.75%	November 16, 2025	150.0	3.802%	5.7
22.	4.59%	November 16, 2045	150.0	4.614%	6.9
23.	4.24%	October 16, 2026	41.7	4.285%	1.8
24.			3,366.7		165.6
Long-	Term Deb	entures			
25.	9.85%	December 2, 2024	85.0	9.910%	8.4
26.			85.0		8.4
27.		of separately treated CIS umed debt of 2016 \$32.4M value	(20.7)	5.350%	(1.1)
28.	Total Ter	m Debt	3,431.0		172.9

Notes:

Enbridge's April 2014 issuance of a \$300 million three-year note has been removed from the calculation of long and medium-term debt costs, and has been re-categorized to short-term debt in a manner consistent with the treatment approved within the Settlement Agreement in Enbridge's 2015 Rate Adjustment proceeding, EB-2014-0276.

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UNAMORTIZED DEBT DISCOUNT AND EXPENSE AVERAGE OF MONTHLY AVERAGES 2016 UPDATED FORECAST

Col. 1

Line No.		Unamortized Debt Discount and Expense
		(\$Millions)
1.	January 1	(14.8)
2.	January 31	(14.8)
3.	February	(14.8)
4.	March	(14.8)
5.	April	(14.9)
6.	May	(14.9)
7.	June	(14.9)
8.	July	(14.9)
9.	August	(15.0)
10.	September	(15.0)
11.	October	(14.0)
12.	November	(14.1)
13.	December	(14.1)
14.	Average of Monthly Averages	(14.7)

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PREFERENCE SHARES SUMMARY STATEMENT OF PRINCIPAL AND CARRYING COST 2016 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 C ar Value	umulative Redeemable Convertible			
1.	N/A	Group 3 Series D	100.0	2.16%	2.2
2.	Total		100.0		2.2

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UNAMORTIZED PREFERENCE SHARE ISSUE EXPENSE AVERAGE OF MONTHLY AVERAGES $\underline{2016\ UPDATED\ FORECAST}$

Col. 1

Line No.		Unamortized Issue Expense
		(\$Millions)
1.	January 1	<u>-</u>
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	