

F10 Assessment Rates  
(2018)  
# 11553811



TO:	Board of Directors	rescinded & superseded by BOD
FROM:	Donald Blue, Vice-President and Chief Actuary	#11, September 21, 2017, Page
DATE:	September 13, 2017	7541 <sup>67</sup>
CLUSTER:	Finance	
SUBJECT:	Rate Setting for 2018	
SUBMISSION:	Decision	

**Issue**

The 2018 average rate requirement prepared by the Chief Actuary is submitted to the Board of Directors for decision.

**Background:**

We have completed detailed analysis of 2018 rate requirements, reflecting the WSIB's updated financial position as at December 31, 2016 and incorporating the revised method of determining actuarial liabilities implemented as at December 31, 2016. The analysis tests projected Sufficiency Ratios under various scenarios, combining rate increases, differing new claims costs, rates of investment return and patterns of economic development.

The recommendation also takes account of Chronic Mental Stress (CMS) legislation that will take effect on January 1, 2018. An alternative rate and environment scenario is presented as information for the Board of Directors.

The current funding trajectory suggests that achievement of 100% funding is possible much earlier than had previously been expected. This led us to consider a longer-term pricing strategy, which is summarized in the analysis. Note that this longer term strategy does not affect the preliminary 2018 rate recommendation, but has implications for future rate decisions.

**Relevant Factors:**

Appended to this memorandum for your review is a presentation setting out the results of our projections, summarizing other relevant information and presenting an assessment of the required rate.

**Recommendation:**

The Board of Directors approve the Chief Actuary's recommendation:

1. An average 3% Schedule 1 premium rate decrease in 2018.
2. The Schedule 1 average 3% decrease should be applied at the Rate Group level as described in the presentation attached.

**APPROVED BY THE BOARD OF DIRECTORS**

*Donald Blue*  
Secretary

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# Board of Directors September 13, 2017

## Recommended 2018 Rate Strategy and Premium Rate

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## Background

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- The MoL has added Chronic Mental Stress (CMS) as an allowable source of claim
  - Current legislation does not provide for retroactivity
- WSIB has not yet finalized its CMS adjudication model [REDACTED]
- Funding analysis suggests that [REDACTED] a 3% rate reduction can prudently be offered
  - Current average rate is \$2.43; a 3% reduction produces \$2.36
- Preliminary rate group recommendation submitted in August was:
  - No increases except those resulting from CMS
  - Decreases limited to 7.6%
  - Led to the 3% average reduction

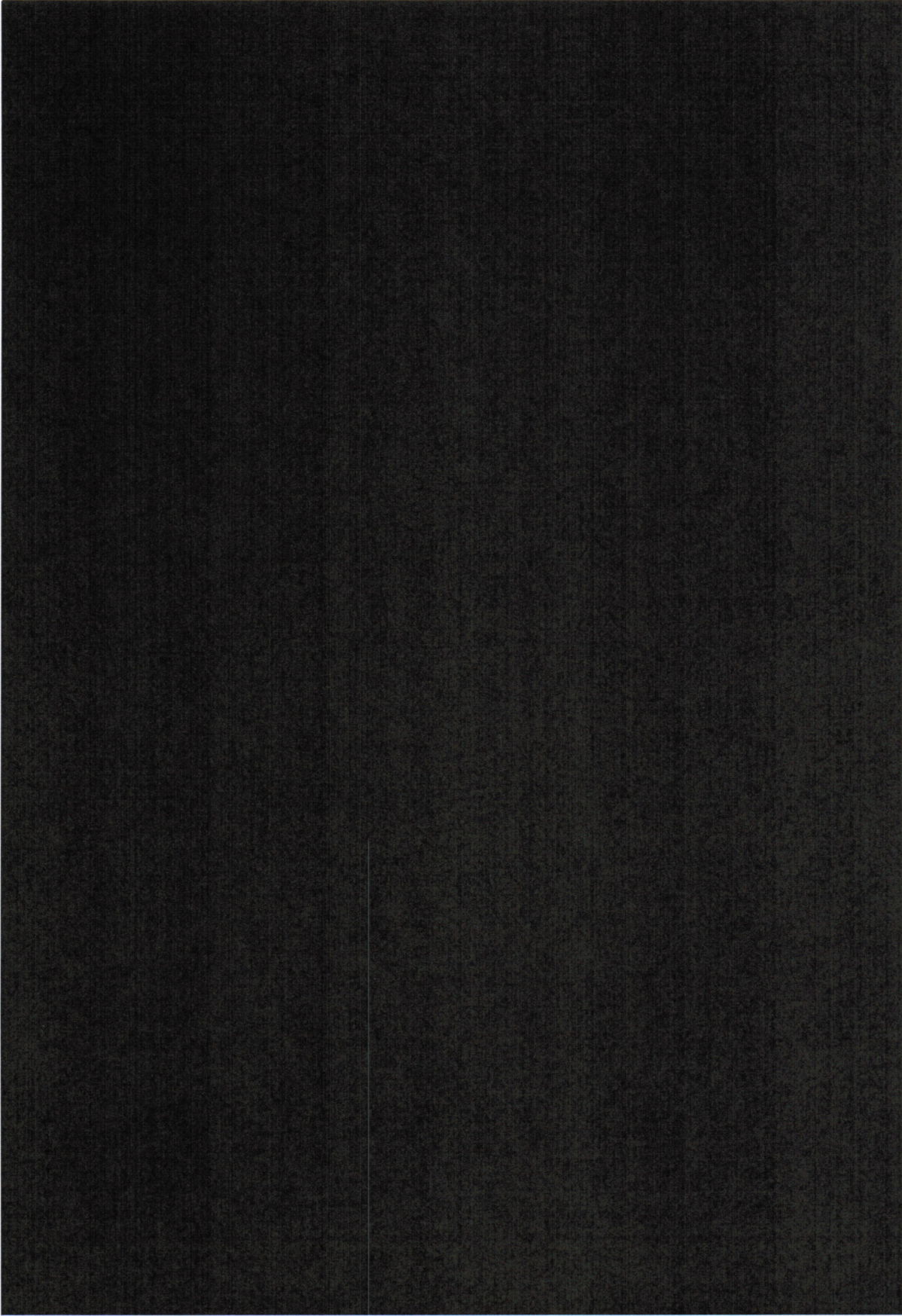
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## Decision

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- We seek BoD approval for an average 3% reduction, reflecting prospective CMS with rate group action as follows:
  - No increases except those resulting from CMS
  - Decreases limited to 7.6%
- The impact of this suggested rate group action is analyzed by class on slide #9.

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## 2017 Funding Projection Scenarios

- Various Funding Scenarios are prepared reflecting the latest set of assumptions:
  - Base case, [REDACTED] (assumes 6.2%, 3.0%, 0% premium rate reductions for 2017, 2018 and 2019, respectively)
  - [REDACTED]
  - See slide #6 for summary results
- Adverse scenarios were also prepared to assess the potential risk exposure
  - Projections not included in this deck, but similar to those presented previously
  - In adverse circumstances, rate increases might be required
- The different scenarios enable us to consider the rate setting strategy before the Rate Framework is implemented

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# 2017 Base Scenario Funding Projections

Basis	NCC/\$100 IE		Indexation		Investment Returns		Discount Rate		Insurable Earnings Growth			Prudency Formula
	Benefit		Full	Partial	2016-2017	2018+	2016-2017	2018+	2015-2017	2018+	2018+	
2016 Funding - Base	\$0.85(2016), \$0.93(2017+)		2.0%	0.5% (2016), 1.0%(2017), 2.0%(2018+)	3.5%	3.5%(2018-2019), 5.25%	4.75%	4.75%	2.5%(2016- 2017)	2.0%	8.5% of Rev Prem	
2017 Funding - Base	\$0.95		2.0%	1.0%(2017), 2.0%(2018+)	3.0%	3.0%(2018-2019), 4.75%	4.50%	4.50%	2.5%(2017)	2.0%	8.5% of Rev Prem	

Note: The indexation assumptions prior to 2018 assume indexation is applied to gross earnings. Indexation assumptions for 2018 and later assume indexation is applied to the benefit rate.

Basis	Premium Rate							Sufficiency Ratio					100% SR Achieved									
	2016	2017	2018	2019	2020	2021	2022+	2016	2017	2018	2019	2020		2021	2022	2023	2024	2025	2026	2027		
2016 Funding - Base (6.2%, 5%, 5% premium rate reductions for 2017-2019)	\$2.57	\$2.42	\$2.30	\$2.11	\$2.12	\$2.12	\$2.12	\$2.12	84.4%	89.4%	93.1%	95.3%	97.5%	103.3%	114.8%	123.4%					2021	
2017 Funding - Base (6.2%, 3%, 0% premium rate reduction for 2017-2019), NCC=\$0.93	\$2.59	\$2.43	\$2.36	\$2.36	\$2.28	\$2.28	\$2.28	\$2.28	87.4%	92.8%	96.8%	100.2%	104.0%	111.1%	125.4%	135.7%						2019



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## Summary of 2017 Published Rates to [REDACTED] by [REDACTED] Class (CMS = \$0.075 analysis – [REDACTED])

While the average rate adjustment for each Class differs, overall, Schedule 1 employers' average premiums will be reduced by 3%, from \$2.43 to \$2.36.

### Summary of Class Rates:

Class Description	2017 Published Rates (added)			
	New Claims Cost Rate	Overhead Rate	Past Claims Cost Rate	Premium Rate
Forest Products	2.872	1.156	1.436	5.46
Mining and Related Industries	2.307	1.163	2.776	6.25
Other Primary Industries	2.136	0.864	1.151	4.15
Manufacturing	1.033	0.545	0.927	2.51
Transportation and Storage	2.164	0.830	2.049	5.04
Retail and Wholesale Trades	0.602	0.385	0.716	1.70
Construction	2.136	0.897	2.755	5.79
Government and Related Services	0.508	0.316	0.543	1.37
Other Services	0.384	0.264	0.546	1.19
<b>Schedule 1</b>	<b>0.930</b>	<b>0.479</b>	<b>1.019</b>	<b>2.43</b>

## Rate Setting Considerations (Cont'd) – Rate Decrease Approach (CMS = \$0.075 analysis – [REDACTED])

Up to a 7.6% rate premium reduction has been recommended for the best performing rate groups.

### Summary of Rate Group Changes, By Class:

Class	Class Description	RG Count	Firm Count	Decreases in the RG Basis		Increase in the RG Basis		No change in the RG Basis				
				# RG	# Firms	% Firms	# RG	# Firms	% Firms	# RG	# Firms	% Firms
A	Forest Products	5	1,413	3	504	36%	2	909	64%	-	-	0%
B	Mining and Related Industries	4	929	3	859	92%	1	70	8%	-	-	0%
C	Other Primary Industries	6	16,421	2	3,604	22%	4	12817	78%	-	-	0%
D	Manufacturing	73	25,701	30	9,472	37%	42	16,138	63%	1	91	0%
E	Transportation and Storage	8	16,868	2	946	6%	6	15922	94%	-	-	0%
F	Retail and Wholesale Trades	16	56,122	8	35,270	63%	8	20,852	37%	-	-	0%
G	Construction	13	111,919	13	111,919	100%	-	-	0%	-	-	0%
H	Government and Related Services	14	11,009	4	2,436	22%	10	8,573	78%	-	-	0%
I	Other Services	16	75,953	11	64,594	85%	5	11,359	15%	-	-	0%
<b>Schedule 1</b>		<b>155</b>	<b>316,335</b>	<b>76</b>	<b>229,604</b>	<b>73%</b>	<b>78</b>	<b>86,640</b>	<b>27%</b>	<b>1</b>	<b>91</b>	<b>0%</b>

## Communication Plan – 2018 Premium Rates

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- Communication products to prepare include the following:
  - House note, press release, web message, letters and Q&A
  - Rate group specific information sheets
- Activities after 2018 rates are approved:
  - Briefing with MOL/Minister's Office
  - Distribution of internal materials (CONNEX message and Staff Q&As)
  - Public Notice of 2018 Rates (Press release and web message issued) and Economic Statement to be released as part of AGM, planned to be on September 20, 2017
  - Up to three Technical Rate sessions live plus webinar – November

# Appendix

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1. Comparison of Assumptions

2. 

# Comparison of Assumptions



Key Assumptions	2016 Funding Base Assumptions (for 2017 rate setting)	2016 Economic Statement Assumptions	2017 Funding Base Assumptions (for 2018 rate setting)
Long Term Target Investment Rate	5.25%	5.25%	4.75%
Investment Returns	2016-2019 : 3.5% 2020+ : 5.25% Level equivalent rate of about 4.6%	2016-2019 : 3.5% 2020+ : 5.25% Level equivalent rate of about 4.6%	2017-2019 : 3.0% 2020+ : 4.75% Level equivalent rate of about 4.2%
Discount Rate	4.75%	4.75%	4.50%
Insurable Earnings Growth	2016-2017: 2.5% 2018+: 2.0%	2016-2017: 2.5% 2018+: 2.0%	2017: 2.5% 2018+: 2.0%
NCC	\$0.85 (2016), \$0.93 (2017+) Base NCC: \$0.75 PTSD: \$0.01 Indexation: \$0.01 Firefighters Presumptive: \$0.01 Margin: \$0.15 (breakdown for NCC = \$0.93)	\$0.85 (2016), \$0.93 (2017+) Base NCC: \$0.75 PTSD: \$0.01 Indexation: \$0.01 Firefighters Presumptive: \$0.01 Margin: \$0.15 (breakdown for NCC = \$0.93)	\$0.93 Base NCC: \$0.69 CMS: \$0.075 PTSD: \$0.01 Margin: \$0.155
Chronic Mental Stress (CMS)	none	none	\$0.075 included in NCC

Note: Level Equivalent Rate for Investment Returns determined by solving for the equivalent rate to achieve the same sufficiency ratio at 2027.  
2017 Funding NCC was determined based on the NCC for the current 2016 Injury Year, \$0.075 for proposed Chronic Mental Stress legislation, \$0.01 for post traumatic stress disorder with a 20% margin applied to each of these components.

# Rate Setting Considerations – Rate Classes



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