DELAWARE COMPENSATION RATING BUREAU, INC.

Review of Experience Rating Plan Parameters

Page 20.1 contains Collectible Premium Ratios.

Page 20.2 contains Expected Loss Cost Factors. They are applied to residual market rates by classification to produce Table A, Expected Loss Factors, which are the basis for the calculation of Expected Losses.

Page 20.3 contains the derivation of various factors, i.e. maximum single loss size, self-rating point, that are used to produce Table B.

COLLECTIBLE PREMIUM RATIOS*

Manual Years 2015 to 2017 Market Profile Report Data

		Collectible									
Manual	Premium at	Collected Premium	Premium								
Year	Manual Rates	(Excluding Constants)	Ratio (2)/(3)								
(1)	(2)	(3)	(4)								
ALL INDUSTRIES											
2015	257,877,946	270,816,210	0.9522								
2016	293,201,296	301,256,550	0.9733								
2017	313,670,999	329,103,892	0.9531								
TOTAL	864,750,241	901,176,651	0.9596								
	MANUFAC	TURING AND UTILITIES									
2015	35,968,946	32,877,651	1.0940								
2016	35,937,227	32,692,578	1.0992								
2017	38,953,163	35,365,073	1.1015								
TOTAL	110,859,336	100,935,302	1.0983								
	CONTRAC	TING AND QUARRYING									
2015	49,604,268	48,128,370	1.0307								
2016	61,563,634	58,417,371	1.0539								
2017	61,886,594	59,290,571	1.0438								
TOTAL	173,054,497	165,836,311	1.0435								
	ОТН	IER INDUSTRIES									
2015	172,304,732	189,810,188	0.9078								
2016	195,700,435	210,146,601	0.9313								
2017	212,831,242	234,448,248	0.9078								
TOTAL	580,836,409	634,405,038	0.9156								

^{*} Excludes classifications and coverages not subject to experience rating.

EXPECTED LOSS RATE FACTORS

CALCULATION OF EXPECTED LOSS RATE FACTORS

Policy Year Beginning 12/1	Average Law Multiplier	Adjustment Factor	Loss Ratio Development Factor	Expense Allowance ** 1 / (PLR/CPR)	Trend Factor	Product (2) * (3) * (4) * (5) * (6)	Expected Loss Rate Factor 1.0 / (7)	Factor to Reflect Approved Rate Levels*	Combined Effect (8) * (9)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
Manufacturing and Utilities											
2014 2015 2016	0.9558 0.9914 1.0023	1.0000 1.0000 1.0000	1.5997 2.0079 2.5133	1.8647 1.8647 1.8647	1.2567 1.1863 1.1202	3.5830 4.4035 5.2619	0.2791 0.2271 0.1900	1.0006 1.0006 1.0006	0.2793 0.2272 0.1901		
Contracting and Quarrying											
2014 2015 2016	0.9558 0.9914 1.0023	1.0000 1.0000 1.0000	1.7108 1.8856 2.2604	1.7716 1.7716 1.7716	1.2567 1.1863 1.1202	3.6405 3.9288 4.4962	0.2747 0.2545 0.2224	1.0006 1.0006 1.0006	0.2749 0.2547 0.2225		
			Other Indi	ustries_							
2014 2015 2016	0.9558 0.9914 1.0023	1.0000 1.0000 1.0000	1.6580 1.9050 2.5715	1.5545 1.5545 1.5545	1.2567 1.1863 1.1202	3.0958 3.4828 4.4882	0.3230 0.2871 0.2228	1.0007 1.0007 1.0007	0.3232 0.2873 0.2230		

^{* (12/1/18} Filed Change in Manual Rate Level)/(12/1/18 Approved Change in Manual Rate Level) by Industry Group, from Exhibit 12, Page 1.

** Permissible Loss Ratio = 0.5890
Collectible Premium Ratios
Manufacturing = 1.0983
Contracting = 1.0435
All Other = 0.9156

Experience Rating Plan Parameters

3 yr =

(2) Permissible Loss Ratio = 0.6138 (a) Expected Losses needed to achieve 5% credibility (3) (1) * (2) = \$9,483 * 0.6138 =\$5,821 Max Value: \$29,105 (4) 0.25 * \$5,821 =0.05 K-Value (5) a) If (3) is assigned 5% credibility, then K = E * (1 - c) = \$5,821 * (1 - .05) =\$110,599 С .05 (6) .055 Credibility Interval - the .0525 left endpoint

corresponds to $E = (K * C) = \frac{\$110,599 * .0525}{(1 - C)} = \frac{\$9475}{}$

(7) Right endpoint for .05 credibility interval = \$6,127

(8) Self rating point = 25 * average serious claim

Eligibility Point = (3,161 = 1 yr Prem)

(1)

6% of (8) rounded to the nearest \$1,000 = \$505,000 Selected = \$505,000

(a) Standard LR / CPR = Manual LR 0.5890 / 0.9596 = 0.6138

\$9,483