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 2014 to 2016 Market Profile Report Data

			Collectible		
Manual	Premium at	Collected Premium	Premium		
Year	Manual Rates	(Excluding Constants)	Ratio (2)/(3)		
(1)	(2)	(3)	(4)		
		I INDUCTOUS			
	AL	L INDUSTRIES			
2014	258,211,562	260,286,052	0.9920		
2015	247,095,158	259,025,925	0.9539		
2016	286,601,879	297,368,719	0.9638		
TOTAL	791,908,599	816,680,696	0.9697		
	MANUFAC	TURING AND UTILITIES			
2014	34,335,697	31,534,717	1.0888		
2015	33,641,793	30,869,674	1.0898		
2016	35,919,716	32,826,790	1.0942		
TOTAL	103,897,207	95,231,181	1.0910		
	CONTRAC	TING AND QUARRYING			
2014	50,143,592	47,541,230	1.0547		
2015	48,303,173	46,969,170	1.0284		
2016	57,816,413	55,135,715	1.0486		
TOTAL	156,263,179	149,646,115	1.0442		
	ОТН	IER INDUSTRIES			
2014	173,732,273	181,210,105	0.9587		
2015	165,150,191	181,187,081	0.9115		
2016	192,865,750	209,406,215	0.9210		
TOTAL	531,748,213	571,803,400	0.9299		

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

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					
2013	0.9236	1.0000	1.6885	1.8688	1.2960	3.7771	0.2648	1.0087	0.2671
2014	0.9614	1.0000	1.7518	1.8688	1.2139	3.8206	0.2617	1.0087	0.2640
2015	0.9849	1.0000	2.5313	1.8688	1.1375	5.2997	0.1887	1.0087	0.1903
			Contracting an	d Quarrying					
2013	0.9236	1.0000	1.5963	1.7886	1.2960	3.4176	0.2926	1.0087	0.2951
2014	0.9614	1.0000	1.8923	1.7886	1.2139	3.9499	0.2532	1.0087	0.2554
2015	0.9849	1.0000	2.5263	1.7886	1.1375	5.0622	0.1975	1.0087	0.1992
			Other Indi	<u>ustries</u>					
2013	0.9236	1.0000	1.6005	1.5928	1.2960	3.0514	0.3277	1.0087	0.3306
2014	0.9614	1.0000	1.8439	1.5928	1.2139	3.4276	0.2917	1.0087	0.2942
2015	0.9849	1.0000	2.3951	1.5928	1.1375	4.2739	0.2340	1.0087	0.2360

^{* (12/1/17} Filed Change in Manual Rate Level)/(12/1/17 Approved Change in Manual Rate Level) by Industry Group, from Exhibit 12, Page 1.

** Permissible Loss Ratio = 0.5838

Collectible Premium Ratios

Manufacturing = 1.0910 Contracting = 1.0442

All Other = 0.9299

Experience Rating Plan Parameters

Eligibility Point = (3,161 = 1 yr Prem)(1) 3 yr =\$9,483 (2) Permissible Loss Ratio = 0.6020 (a) (3) Expected Losses needed to achieve 5% credibility (1) * (2) = \$9,483 * 0.6020 =\$5,709 0.25 * \$5,709 =\$28,545 (4) Max Value: 0.05 K-Value (5) a) If (3) is assigned 5% credibility, then K = E * (1 - c) =\$5,709 * (1 - .05) \$108,471 .05 С .055 Credibility Interval - the .0525 left endpoint (6) corresponds to E = (K * C) =\$108,471 * .0525 = \$6,010 (1 - C).9475 Right endpoint for .05 credibility interval = \$6,009 (7) (8) Self rating point = 25 * average serious claim = 25 * \$304,144 = \$7,603,600

6% of (8) rounded to the nearest \$1,000 = \$456,000

Selected = \$456,000

(a) Standard LR / CPR = Manual LR 0.5838 / 0.9697 = 0.6020