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 2017 to 2019 Market Profile Report Data

			Collectible			
Manual	Premium at	Collected Premium	Premium			
Year	Manual Rates	(Excluding Constants)	Ratio (2)/(3) (4)			
(1)	(2)	(3)				
	AL	L INDUSTRIES				
2017	320,024,528	330,796,314	0.9674			
2018	326,213,792	325,845,507	1.0011			
2019	304,894,066	324,587,523	0.9393			
TOTAL	951,132,386	981,229,344	0.9693			
	MANUFAC	TURING AND UTILITIES				
2017	40,041,092	40,041,092 35,661,221				
2018	43,986,740	40,072,602	1.0977			
2019	38,276,797	36,339,547	1.0533			
TOTAL	122,304,629	112,073,370	1.0913			
	CONTRAC	TING AND QUARRYING				
2017	63,571,427	60,054,651	60,054,651 1.0586			
2018	69,895,285	64,050,095	1.0913			
2019	70,153,188	69,864,337	1.0041			
TOTAL	203,619,900	193,969,083	1.0498			
	ОТН	IER INDUSTRIES				
2017	216,412,010	235,080,442	0.9206			
2018	212,331,767	221,722,810	0.9576			
2019	196,464,081	218,383,639	0.8996			
TOTAL	625,207,858	675,186,891 0.9260				

^{*} 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					
2016	1.0098	1.0000	1.5350	2.0050	1.1288	3.5081	0.2851	1.0488	0.2990
2017	1.0135	1.0000	1.7870	2.0050	1.0939	3.9723	0.2517	1.0488	0.2640
2018	1.0085	1.0000	2.4113	2.0050	1.0609	5.1727	0.1933	1.0488	0.2027
			Contracting an	d Quarrying					
2016	1.0098	1.0000	1.4871	1.9287	1.1288	3.2693	0.3059	1.0487	0.3208
2017	1.0135	1.0000	1.9543	1.9287	1.0939	4.1789	0.2393	1.0487	0.2510
2018	1.0085	1.0000	2.4818	1.9287	1.0609	5.1213	0.1953	1.0487	0.2048
			Other Ind	ustries					
2016	1.0098	1.0000	1.5808	1.7013	1.1288	3.0656	0.3262	1.0488	0.3421
2017	1.0135	1.0000	1.8334	1.7013	1.0939	3.4581	0.2892	1.0488	0.3033
2018	1.0085	1.0000	2.4447	1.7013	1.0609	4.4500	0.2247	1.0488	0.2357

^{* (12/1/20} Filed Change in Manual Rate Level)/(12/1/20 Approved Change in Manual Rate Level) by Industry Group, from Exhibit 12, Page 1.

** Permissible Loss Ratio = 0.5443
Collectible Premium Ratios
Manufacturing = 1.0913
Contracting = 1.0498
All Other = 0.9260

Experience Rating Plan Parameters

- (1) Eligibility Point = (3,161 = 1 yr Prem) 3 yr = \$9,483
- (2) Permissible Loss Ratio = 0.5615 (a)
- (3) Expected Losses needed to achieve 5% credibility

\$5,325

- (4) Max Value : 0.25 * \$5,325 = 0.05 \$26,625
- (5) K-Value

a) If (3) is assigned 5% credibility, then $K = \frac{E * (1 - c)}{c} = \frac{\$5,325 * (1 - .05)}{.05} = \frac{1}{100}$

\$101,175

- (6) .055 Credibility Interval the .0525 left endpoint corresponds to E = (K * C) = \$101,175 * .0525 = \$5,606 \$5,606
- (7) Right endpoint for .05 credibility interval = \$5,605
- (8) Self rating point = 25 * average serious claim

Selected = \$534,000

(a) Standard LR / CPR = Manual LR 0.5443/ 0.9693 = 0.5615