DELAWARE COMPENSATION RATING BUREAU, INC. F CLASS FILING

Internal Rate Of Return Model

The attached pages present exhibits and a description of the internal rate of return model used in deriving the DCRB's loss ratio (including loss adjustment expenses and loss based assessments) and provision for profit and contingencies.

DELAWARE COMPENSATION RATING BUREAU, INC. DELAWARE DECEMBER 1, 2017 "F" CLASS FILING

Internal Rate of Return Analysis

The following pages present results of an economic analysis establishing the following items:

- The appropriate rate of return for writing workers compensation business, and
- The loss ratio (including loss adjustment expenses and loss-based assessments) which will allow the realization of that target rate of return in current economic conditions, based on current expense needs for stock carriers and cash flows for losses and expenses attendant with Delaware workers compensation insurance.

Internal Rate of Return Table I shows Inputs, Assumptions and Outputs underlying the analysis.

Internal Rate of Return Tables II - VII show the various cash flows projected for the underwriting of Delaware workers compensation business based on the inputs to the Internal Rate of Return model, assuming a base standard premium at DCRB level of \$1 million.

Exhibits titled "Delaware Pre & Post Tax Returns" and "Delaware Cost of Capital" present the derivation of the appropriate current target rate of return, which is 8.71 percent. Both Capital Asset Pricing Model ("CAPM") and Discounted Cash Flow ("DCF") analyses have been applied in the derivation of this target rate, producing results of 8.46 and 8.96 percent, respectively. The selected target rate of return, 8.71 percent, is the average of these two separate indications.

INTERNAL RATE OF RETURN ANALYSIS DELAWARE "F" CLASS

TABLE I: INPUTS, ASSUMPTIONS & OUTPUTS

| | Section 1: Inputs & Assumptions | |
|-----|--|------------------------|
| (1 |) Commissions * | 5.38 |
| (2 |) Other Expenses | 5.98 |
| (2A | | 2.39 |
| (2B | | 3.26 |
| (20 | • | 0.33 |
| (3 |) State Premium Taxes & Uncollectible Premium | |
| (3A |) Tax1 - Premium Tax ** | 2.00 |
| (3B |) Uncollectible Premium ** | 1.10 |
| (3C |) Tax3 - Workers Compensation Fund | ** 0.00 |
| (4 |) Premium Discount *** | 8.38 |
| (5 |) Deviations | 0.00 |
| (6 |) Dividends to Policyholders | 0.00 |
| (7 |) Premium Written | 1,000,000 |
| | Investment Income | |
| (8A | | 4.49 |
| (8B | , | 1.06 |
| (8C | • | 3.43 |
| (10 |) Reserve to Surplus Ratio | 1.92 |
| (11 |) Internal Rate of Return (Cost of Capital) | 8.71 |
| | * Applies to standard premium at DCRB level (before pr | remium discount) |
| | ** Applies to net premium at company level (after deviations a | and premium discounts) |
| | *** Applies to standard premium at company level (af | fter deviations) |
| | Section 2: Outputs | |
| | | |

| Section 2: Outputs | | |
|---|-------|--|
| (1) Loss Ratio - including loss adjustment expense & loss based assessments | 74.80 | |
| (2) Profit & Contingencies | 2.36 | |

TABLE II: CASH FLOW PATTERNS

- Column (1) Premium Collection pattern provided by the DCRB based on Delaware workers compensation data.
- Column (2) Policy Year Loss Payout pattern provided by the DCRB based on Delaware workers compensation data.
- Column (3) Other Expense Payout pattern as follows: All expenses except Commission and 1/2 General Expense flowing with earned premium. Commission flows with collected premium, and 1/2 General Expense flows with written premium.
- Column (4) Tax 1 flow assumes even quarterly payment of state premium taxes.
- Column (5) Uncollectible premium flow matches that of Column (1) Premium collection pattern.
- Column (6) Tax 3 flow assumes even quarterly payment of Security Fund assessments.
- Column (7) No dividend provision is included in this IRR model.

F CLASS INTERNAL RATE OF RETURN ANALYSIS STATE OF DELAWARE - 2017 TABLE II: CASH FLOW PATTERNS

| | | | | IABLE | II: CASH F | -LOW PATE | EKN2 | | | |
|----------------|----------------|--------------------|------------------|------------------|------------|--------------------|------|-------------|------------------|------------------|
| | | (1) | (2) POLICY YR | (3) | (4) | (5) | (6) | (7) | (8) CUM | (9) CUM |
| TIME | INTERVAL | | LOSS | OTHER | TAX1 | UNCOLL | TAX3 | DIVIDENDS | | EARNED |
| FROM | ТО | COLLECTED | PAYOUT | | | PREMIUM | | PAID | DISTRIBUTION | DISTRIBUTION |
| | | | | | | | | | | • |
| -1.00 | -0.75 -0.50 | 0.0000 0.0003 | 0 | | 0 | 0.0000 | | 0 0 | 0 | 0 |
| -0.75 -0.50 | -0.50 | 0.0008 | 0 | | 0 | 0.0003 | | 0 0 | 0 | 0 |
| -0.30 | 0.00 | 0.0008 | 0 | | 0 | 0.0012 | | 0 0 | 0 | ő |
| 0.00 | 0.25 | 0.2135 | 0.9 | 19.8303 | 25 | 0.2135 | | 5 0 | 0.2611 | 0.0328 |
| 0.25 | 0.50 | 3,3439 | 1.8 | 21,1556 | 25 | 3.3439 | 2 | | 0,5168 | 0.1306 |
| 0.50 | 0.75 | 9.0451 | 2.7 | 23.6230 | 25 | 9,0451 | 2 | | 0,7829 | 0.2945 |
| 0.75 | 1.00 | 14.4599 | 3.6 | | 25 | 14.4599 | 2 | | 1.0000 | 0.5177 |
| 1.00 | 1.25 | 20,9919 | 4.485 | | 0 | 20.9919 | | 0 0 | 1.0000 | 0.7329 |
| 1.25 | 1,50 1,75 | 16.3648 13.6339 | 4.485 4.485 | | 0 | 16.3648 13.6339 | | 0 0 0 25 | 1.0000 1.0000 | 0,8850 0,9726 |
| 1.50 1.75 | 2.00 | 9.1761 | 4.485 | | 0 | 9.1761 | | 0 25 | 1.0000 | 1,0000 |
| 2 00 | 2.25 | 4.9981 | 2.54 | | Ö | 4.9981 | | 0 25 | 1.0000 | 1.0000 |
| 2.25 | 2.50 | 2.7160 | 2.54 | | Ō | 2.7160 | | 0 25 | 1,0000 | 1.0000 |
| 2.50 | 2.75 | 1.8088 | 2.54 | 0.0000 | 0 | 1.8088 | | 0 0 | 1,0000 | 1,0000 |
| 2.75 | 3.00 | 0.9484 | 2.54 | | 0 | 0.9484 | | 0 0 | 1.0000 | 1,0000 |
| 3.00 | 3.25 | 0.5077 | 5.05 | | 0 | 0.5077 | | 0 0 | 1_0000 | 1,0000 |
| 3.25 | 3.50 | 0.3019 | 5,05 | | 0 | 0.3019 | | 0 0 | 1,0000 | 1,0000 1.0000 |
| 3,50 3,75 | 3.75 4.00 | 0.1950 0.1141 | 5.05 5.05 | | 0 | 0.1950 0.1141 | | 0 0 | 1.0000 1.0000 | 1.0000 |
| 4.00 | 4.00 | 0.0574 | 2,9925 | | 0 | 0.0574 | | 0 0 | 1.0000 | 1.0000 |
| 4.25 | 4.50 | 0.0975 | 2.9925 | | Ö | 0.0975 | | 0 0 | 1.0000 | 1.0000 |
| 4.50 | 4.75 | 0.1441 | 2.9925 | | 0 | 0.1441 | | 0 0 | 1.0000 | 1.0000 |
| 4.75 | 5.00 | 0.1277 | 2.9925 | 0.0000 | 0 | 0.1277 | | 0 0 | 1,0000 | 1.0000 |
| 5.00 | 6.00 | 0.0692 | 7.46 | 0.0000 | 0 | 0.0692 | | 0 0 | 1.0000 | 1,0000 |
| 6.00 | 7.00 | 0.1204 | 4.97 | 0.0000 | 0 | 0.1204 | | 0 0 | 1.0000 | 1.0000 |
| 7.00 | 8.00 | 0.2105 | 3.51 | 0.0000 | 0 | 0.2105 | | 0 0 | 1.0000 | 1.0000 1.0000 |
| 8.00 9.00 | 9.00 10.00 | 0.1800 0.0463 | 2.57 1.97 | 0.0000 | 0 | 0.1800 0.0463 | | 0 0 | 1.0000 1.0000 | 1.0000 |
| 10.00 | 11.00 | 0.0403 | 1.53 | 0.0000 | 0 | 0.0403 | | 0 0 | 1.0000 | 1.0000 |
| 11.00 | 12.00 | 0.0421 | 1.22 | 0.0000 | 0 | 0.0421 | | 0 0 | 1.0000 | 1.0000 |
| 12,00 | 13.00 | 0.0422 | 1.00 | 0.0000 | 0 | 0.0422 | | 0 0 | 1.0000 | 1.0000 |
| 13.00 | 14.00 | 0.0000 | 0.83 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 14.00 | 15.00 | 0_0000 | 0.69 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 15.00 | 16.00 | 0.0000 | 0.59 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 16.00 | 17.00 | 0.0000 | 0.51 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 1.0000 | 1.0000 1.0000 |
| 17.00 18.00 | 18.00 19.00 | 0.0000 0.0000 | 0.43 0.38 | 0.0000 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 19.00 | 20.00 | 0.0000 | 0.34 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 20.00 | 21.00 | 0.0000 | 0.30 | 0.0000 | Ō | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 21.00 | 22.00 | 0.0000 | 0.26 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 22.00 | 23.00 | 0.0000 | 0.24 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 23.00 | 24.00 | 0.0000 | 0.21 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 24.00 | 25.00 | 0.0000 | 0.19 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 1.0000 |
| 25.00 26.00 | 26.00 27.00 | 0.0000 | 0.17 0.16 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1,0000 |
| 27.00 | 28.00 | 0.0000 | 0.10 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 28.00 | 29.00 | 0.0000 | 0.14 | 0.0000 | Ö | 0.0000 | | 0 0 | | 1.0000 |
| 29.00 | 30.00 | 0.0000 | 0.12 | 0.0000 | 0 | 0.0000 | | 0 0 | 1,0000 | 1.0000 |
| 30.00 | 31.00 | 0.0000 | 0.11 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 31.00 | 32.00 | 0.0000 | 0.10 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 32.00 | 33.00 | 0.0000 | 0.10 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1,0000 |
| 33.00 34.00 | 34.00 35.00 | 0.0000 0.0000 | 0.09 0.08 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 1.0000 |
| 35.00 | 36.00 | 0.0000 | 0.08 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 36.00 | 37.00 | 0.0000 | 0.07 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 37.00 | 38.00 | 0.0000 | 0.04 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 38.00 | 39.00 | 0.0000 | 0.02 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 39.00 | 40.00 | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 40.00 | 41.00 | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 41.00 | 42.00 | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 1.0000 |
| 42.00 43.00 | 43.00 44.00 | 0.0000 0.0000 | 0.01 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1,0000 |
| 44.00 | | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 45.00 | | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 46.00 | | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| 47.00 | | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 48.00 | 49.00 | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | | 1.0000 |
| 49.00 | 50.00 | 0.0000 | 0.01 | 0.0000 | 0 | 0.0000 | | 0 0 | 1.0000 | 1.0000 |
| | | | | | | | | | | |

 $100.0000 \quad 100.0000 \quad 100.0000 \quad 100.0000 \quad 100.0000 \quad 100.0000 \quad 100.0000$

TABLE III: CASH FLOW FOR LOSS AND UNEARNED PREMIUM RESERVES PAGE 1

Column (1) Premium Collected based on collection pattern from Table II, Column (1).

Example: $$916,200 \times .000023 = 21.07

Column (2) Agents' Balances reflects the difference between Written Premium and Collected Premium. Written Premium pattern provided by the DCRB for Delaware workers compensation insurance.

Example: Written Premium, First Quarter = .25 x \$916,200 = \$229,050.00 Collected Premium = (.000023 + .002135) x \$916,200 = \$1,977.16 Written - Collected = \$227,072.84

- Column (3) Overdue Agent's Balances are all Agents' Balances due after the end of the 24-month period in which earnings of policy year premium occurs.
- Column (4) Admitted Agents' Balances reflect all Agents' Balances due prior to the end of the 24-month period in which earnings of policy year premium occurs.
- Column (5) Losses Incurred is computed by applying the loss ratio for the business to earned premiums at DCRB level (i.e., before premium discounts). Premium earning pattern provided by the DCRB for Delaware workers compensation insurance.

Example: $.7480 \times \$1,000,000 \times .0328 = \$24,534.40$

Column (6) Unearned Premiums is computed as Cumulative Written Premium less Cumulative Earned Premium.

Example: \$239,219.82 - 30,051.36 = \$209,168.46

Column (7) Total Premium Net of Reserves is computed as Collected Premium plus Admitted Agents' Balances less Losses Incurred less Unearned Premium Reserves.

Example: \$1,977.16 + 227,072.84 - 24,534.40 - 209,168.46 = -\$4,652.86

TABLE III: CASH FLOW FOR LOSS AND UNEARNED PREMIUM RESERVES PAGE 2

Column (8) Premium Net of Reserves is the periodic change in Column (7).

Example: -\$4,652.86 - 0 = -\$4,652.86

Column (9) Cumulative Written Premium is total written premium times the cumulative written premium distribution (Table II, column (9)).

Example: $$916,200 \times .2611 = $239,219.82$

Column (10) Cumulative Earned Premium is total earned premium times the cumulative earned premium distribution (Table II, column (10)).

Example: $$916,200 \times 0.0328 = $30,051.36$

F CLASS INTERNAL RATE OF RETURN ANALYSIS STATE OF DELAWARE 2017 TABLE III: CASH FLOW FOR LOSS AND UNEARNED PREMIUM RESERVES

| TIME FROM | INTERVAL TO | (1) PREMIUM COLLECTED | (2) AGENTS BALANCES | (3) OVERDUE AGENTS | (4) ADMITTED AGENTS | (5) LOSSES INCURRED | (6) UNEARNED PREMIUMS | (7) TOTAL PREM NET OF | (8) PREMIUM NET OF | (9) CUMULATIVE WRITTEN | (10) CUMULATIVE EARNED |
|----------------|----------------|-----------------------------|---------------------------|--------------------------|---------------------------|---------------------------|-----------------------------|-----------------------------|--------------------------|------------------------------|------------------------------|
| | | | | BALANCE | BALANCES | | | RESERVES | RESERVES | PREMIUM | PREMIUM |
| -1 00 | -0 75 | 0.00 | 0.00 | 0,00 | 0,00 | 0.00 | 0.00 | 0.00 | 0,00 | 0,00 | 0.00 |
| -0_75 | -0.50 | 2 75 | -2.75 | 0.00 | -2.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -0 50 | -0.25 | 10.08 | -10.08 | 0,00 | -10.08 -21.07 | 0.00 | 0.00 | 0.00 0.00 | 0,00 | 0.00 | 0_00 0_00 |
| -0.25 0.00 | 0.00 0.25 | 21 07 1,977 16 | -21.07 227,072,84 | 0.00 0.00 | 227,072.84 | 24,534.40 | 209,168.46 | -4,652,86 | -4,652,86 | 239,219.82 | 30,051,36 |
| 0.25 | 0.50 | 32,613.97 | 425,486.03 | 0.00 | 425,486.03 | 97,688.80 | 353,836.44 | 6,574.76 | 11,227.62 | 473,492.16 | 119,655.72 |
| 0.50 | 0.75 | 115,485.18 | 571,664.82 | 0.00 | 571,664.82 | 220,286.00 | 447,472.08 | 19,391,92 | 12,817,16 | 717,292,98 | 269,820 90 |
| 0.75 | 1.00 | 247,966.78 | 668,233.22 | 0.00 | 668,233,22 | 387,239.60 | 441,883,26 | 87,077.14 | 67,685.22 | 916,200.00 | 474,316.74 |
| 1,00 | 1.25 | 440,294,57 | 475,905,43 | 0,00 | 475,905.43 | 548,209.20 | 244,717.02 | 123,273,78 | 36,196,64 | 916,200.00 | 671,482,98 |
| 1.25 | 1.50 | 590,228.87 | 325,971,13 | 0,00 | 325,971.13 | 661,980.00 | 105,363.00 | 148,857.00 | 25,583,22 | 916,200.00 | 810,837.00 |
| 1.50 | 1.75 | 715,142.66 | 201,057.34 | 0,00 | 201,057,34 | 727,504.80 | 25,103 88 | 163,591,32 168,200,00 | 14,734,32 | 916,200 00 916,200 00 | 891,096,12 916,200,00 |
| 1 75 2 00 | 2 00 2 25 | 799,214.09 845,006.68 | 116,985.91 71,193.32 | 0,00 71,193,32 | 116,985,91 0.00 | 748,000,00 748,000,00 | 0.00 | 97,006.68 | 4,608,68 -71,193,32 | 0.00 | 0.00 |
| 2.25 | 2 50 | 869,890.67 | 46,309.33 | 46,309.33 | 0.00 | 748,000.00 | 0.00 | 121,890.67 | 24,883,99 | 0.00 | 0.00 |
| 2.50 | 2.75 | 886,462.90 | 29,737.10 | 29,737.10 | 0.00 | 748,000.00 | 0.00 | 138,462.90 | 16,572.23 | 0.00 | 0.00 |
| 2.75 | 3.00 | 895,152.14 | 21,047.86 | 21,047.86 | 0.00 | 748,000.00 | 0.00 | 147,152 14 | 8,689,24 | 0.00 | 0.00 |
| 3.00 | 3.25 | 899,803,68 | 16,396,32 | 16,396,32 | 0.00 | 748,000.00 | 0.00 | 151,803.68 | 4,651,55 | 0.00 | 0.00 |
| 3.25 | 3,50 | 902,569.69 | 13,630,31 | 13,630,31 | 0.00 | 748,000.00 | 0.00 | 154,569,69 | 2,766,01 | 0.00 | 0 00 |
| 3.50 | 3.75 | 904,356.28 | 11,843,72 | 11,843,72 | 0.00 | 748,000.00 | 0.00 | 156,356 28 157,401.67 | 1,786,59 1,045,38 | 0 00 | 0.00 |
| 3.75 4.00 | 4 00 4 25 | 905,401.67 905,927.57 | 10,798 33 10,272 43 | 10,798.33 10,272,43 | 0.00 | 748,000.00 748,000.00 | 0.00 | 157,927.57 | 525.90 | 0.00 | 0.00 |
| 4 25 | 4.50 | 906,820 86 | 9,379.14 | 9,379,14 | 0.00 | 748,000.00 | 0.00 | 158,820.86 | 893.30 | 0.00 | 0.00 |
| 4 50 | 4.75 | 908,141.10 | 8,058.90 | 8,058.90 | 0.00 | 748,000.00 | 0.00 | 160,141,10 | 1,320 24 | 0.00 | 0.00 |
| 4.75 | 5.00 | 909,311.09 | 6,888 91 | 6,888.91 | 0.00 | 748,000.00 | 0.00 | 161,311.09 | 1,169.99 | 0.00 | 0.00 |
| 5 00 | 6.00 | 909,945.10 | 6,254.90 | 6,254.90 | 0,00 | 748,000_00 | 0.00 | 161,945.10 | 634.01 | 0.00 | 0.00 |
| 6.00 | 7 00 | 911,048,21 | 5,151,79 | 5,151.79 | 0.00 | 748,000.00 | 0.00 | 163,048,21 | 1,103.10 | 0.00 | 0.00 |
| 7.00 | 8 00 | 912,976.81 | 3,223.19 | 3,223.19 | 0.00 | 748,000.00 | 0.00 | 164,976.81 | 1,928 60 | 0.00 | 0.00 |
| 8 00 9 00 | 9 00 10 00 | 914,625,97 915,050 17 | 1,574,03 1,149,83 | 1,574,03 1,149,83 | 0.00 | 748,000.00 748,000.00 | 0.00 | 166,625,97 167,050,17 | 1,649 16 424 20 | 0.00 | 0.00 |
| 10.00 | 11 00 | 915,427 64 | 772.36 | 772 36 | 0.00 | 748,000.00 | 0.00 | 167,427.64 | 377.47 | 0.00 | 0.00 |
| 11 00 | 12 00 | 915,813.36 | 386.64 | 386.64 | 0.00 | 748,000.00 | 0.00 | 167,813.36 | 385.72 | 0.00 | 0 00 |
| 12.00 | 13.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 386.64 | 0.00 | 0.00 |
| 13 00 | 14.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200,00 | 0.00 | 0.00 | 0.00 |
| 14.00 | 15.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 15.00 | 16.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200,00 | 0.00 | 0.00 | 0.00 |
| 16 00 17 00 | 17 00 18 00 | 916,200.00 916,200.00 | 0.00 0.00 | 0.00 | 0.00 | 748,000.00 748,000.00 | 0.00 | 168,200,00 168,200,00 | 0,00 | 0.00 | 0.00 |
| 18.00 | 19 00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 19 00 | 20.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0,00 | 0.00 | 0.00 |
| 20.00 | 21.00 | 916,200.00 | 0.00 | 0,00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 21 00 | 22,00 | 916,200,00 | 0.00 | 0.00 | 0.00 | 748,000 00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 22.00 | 23 00 | 916,200 00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200,00 | 0.00 | 0.00 | 0.00 |
| 23.00 | 24.00 | 916,200.00 | 0.00 | 0.00 | 0.00 0.00 | 748,000.00 748,000.00 | 0.00 | 168,200,00 168,200,00 | 0,00 | 0.00 | 0.00 |
| 24 00 25 00 | 25 00 26 00 | 916,200.00 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 26 00 | 27 00 | 916,200 00 | 0 00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 27 00 | 28 00 | 916,200 00 | 0.00 | 0,00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0 00 |
| 28 00 | 29 00 | 916,200 00 | 0.00 | 0.00 | 0 00 | 748,000.00 | 0.00 | 168,200,00 | 0,00 | 0.00 | 0.00 |
| 29 00 | 30 00 | 916,200.00 | 0 00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0 00 | 0 00 |
| 30.00 | 31 00 | 916,200 00 | 0 00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 31 00 32 00 | 32.00 33.00 | 916,200 00 916,200 00 | 0 00 0 00 | 0.00 | 0.00 | 748,000.00 748,000.00 | 0.00 | 168,200,00 168,200,00 | 0.00 | 0 00 | 0 00 |
| 33.00 | 34 00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0 00 |
| 34 00 | 35 00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0 00 | 0.00 |
| 35.00 | 36 00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 36.00 | 37.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200 00 | 0.00 | 0.00 | 0.00 |
| 37.00 | 38.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 38.00 | 39.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200 00 | 0.00 | 0.00 | 0.00 |
| 39.00 | 40.00 | 916,200.00 916,200.00 | 0.00 0.00 | 0.00 | 0.00 | 748,000.00 748,000.00 | 0.00 | 168,200.00 168,200.00 | 0.00 | 0.00 | 0.00 |
| 40 00 41 00 | 41.00 42.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200 00 | 0.00 | 0 00 | 0.00 |
| 42.00 | 43.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 43.00 | 44.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200 00 | 0.00 | 0.00 | 0.00 |
| 44 00 | 45.00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 45.00 | 46 00 | 916,200.00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 46 00 | 47.00 | 916,200 00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0.00 |
| 47 00 48 00 | 48.00 | 916,200.00 | 0.00 0.00 | 0.00 | 0.00 | 748,000.00 748,000.00 | 0.00 | 168,200.00 168,200.00 | 0.00 | 0.00 0.00 | 0.00 |
| 49 00 | 49 00 50.00 | 916,200 00 916,200 00 | 0.00 | 0.00 | 0.00 | 748,000.00 | 0.00 | 168,200.00 | 0.00 | 0.00 | 0 00 |
| 70.00 | 50,00 | 0.10,200.00 | 0.00 | 0.00 | 3.00 | | 0.00 | .55,250,00 | 2-00 | 0.50 | |

TABLE IV: TAX CREDITS AVAILABLE FROM UNDERWRITING OPERATIONS PAGE 1

Column (1) The net written premium underlying the model, i.e., \$1 million less premium discounts, or \$916,200.00.

Column (2) The periodic change in the Unearned Premium Reserve shown in Table III, Column (6).

Example: \$441,883.26 - 0 = \$441,883.26

Column (3) The sum of the products of the expense flows shown in Table II and their associated expense provisions as shown on Table I, multiplied times the premium base.

Example:

| Item | Provision (%) | Year 1 Expense Flow | Year 1 Expense Ratio % | Premium Base | Year 1 Expense \$ |
|--|---|---|------------------------------|---|---|
| Commission General Expense Other Acquisition Other Tax Uncollectible Prem Tax 1: | (a) 5.38 3.26 2.39 0.33 1.10 2.00 | (b) 0.002706 0.007500 0.010000 0.010000 0.002706 0.010000 | 0.024450 | (d) 1,000,000 1,000,000 1,000,000 916,200 916,200 916,200 | (e)=(c)*(d) 14,558.28 24,450.00 23,900.00 3,023.46 2,727.16 18,324.00 |
| Total | | | | | 86,982.90 (round) |

Column (4) & The Losses Paid for Accident Years 1 and 2, respectively, are based on Column (5) payout patterns provided by the DCRB for Delaware workers compensation insurance.

Example: Accident Year 1, Year 1 Payout

 $(.1800 / 2) \times .7480 \times \$1,000,000 = \$67,320.00$

TABLE IV: TAX CREDITS AVAILABLE FROM UNDERWRITING OPERATIONS PAGE 2

- Column (6) The IRS Discount Factors are a tabulation of discount factors published for carriers by the Internal Revenue Service.
- Column (7) & The Losses Discounted for Accident Years 1 and 2, respectively, are the Column (8) change in discounted reserves for each accident year implied by the loss ratio, premium earnings pattern and IRS discount factors incorporated into the model.

Example: Accident Year 1, Year 2 Losses Discounted

Accident Year 1 Incurred at End of Year 2: \$387,164.80

Accident Year 1 Paid Through Year 2:

\$67,320.00 + 73,790.20 = \$141,110.20

Accident Year 1 Undiscounted Reserve, Year 2:

\$387,164.80 - 141,110.20 = \$246,054.60

IRS Discount Factor: .8574

Accident Year 1 Discounted Reserve, Year 2:

 $$246,054.60 \times .8574 = $210,967.21$

Accident Year 1 Incurred at End of Year 1: \$387,164.80

Accident Year 1 Paid Through Year 1: \$67,320.00

Accident Year 1 Undiscounted Reserve, Year 1:

\$387.164.80 - 67.320.00 = \$319.844.80

IRS Discount Factor: .8755

Accident Year 1 Discounted Reserve, Year 1:

 $$319,844.80 \times .8755 = $280,024.12$

Change in Discounted Reserves, Year 1 to 2: \$210,967.21 - 280,024.12 = -\$69,056.91 (round)

Column (9) Tax Credits are computed as follows:

Underwriting Tax Rate x

- (Written Premium
 - + 0.8 x Change in Unearned Premium
 - + Expenses Paid
 - + Losses Paid
 - + Change in Discounted Loss Reserve

F CLASS INTERNAL RATE OF RETURN ANALYSIS STATE OF DELAWARE - 2017 TABLE IV: TAX CREDITS AVAILABLE FROM UNDERWRITING OPERATIONS

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
|----------|------------|---------------------------|------------------------|------------------|------------------|------------------|--------------------------|--------------------------|----------------------|
| VEAD | PREMIUM | CHANGE IN | EVDENOEO | LOSSES PA | | | LOSSES DISCOUNT | | TAX |
| YEAR | WRITTEN | UNEARN PREM | EXPENSES | ACCIDENT | | | ACCIDENT | ACCIDENT | CREDITS |
| 4 | (POST-DEV) | RESERVE | 4.47 | YEAR 1 | YEAR 2 | FACTOR | YEAR 1 | YEAR 2 | 0.51 |
| -1 | 0.00 | 0.00 | 1.47 | 0.00 | 0.00 | 0 0755 | 0.00 | 0.00 | 0.51 |
| 1 | 916,200.00 | 441,883.26 -441,883,26 | 86,984.43 46,583.40 | 67,320.00 | 0.00 | 0.8755 0.8574 | 280,032.76 | | -44,924.67 |
| 2 | 0.00 | 0.00 | 6,688.88 | | | | -69,056,44 -34,610.69 | 262,940.02 -38,655.42 | 7,403.05 3,296.85 |
| 4 | 0.00 | 0.00 | 714.61 | | 82,953.20 | | -58,355.64 | -73,411.90 | 7,015.07 |
| 5 | 0.00 | 0.00 | 272.57 | | | | -32,515.60 | -43,813.38 | 4,704.63 |
| 6 | 0.00 | 0,00 | 44.20 | | | | -19,959.82 | -27,416.85 | 2,963.92 |
| 7 | 0.00 | 0.00 | 76_91 | 15,932.40 | | | -12,614.51 | -18,182.43 | 2,272.54 |
| 8 | 0.00 | 0.00 | 134.46 | 11,481.80 | | | -8,952.48 | -11,656.63 | 2,009.97 |
| 9 | 0.00 | 0.00 | 114.98 | 8,602.00 | | | -7,018.07 | -8,299.80 | 1,420,34 |
| 10 | 0.00 | 0.00 | 29.58 | 6,657.20 | 8,041.00 | | -5,146.19 | -6,556.61 | 1,058.74 |
| 11 | 0.00 | 0.00 | 26.32 | 5,236.00 | 6,208.40 | | -4,059.35 | -4,789.82 | 917.54 |
| 12 | 0.00 | 0.00 | 26.89 | 4,226.20 | 4,936.80 | | -3,285.65 | -3,823.93 | 728.11 |
| 13 | 0.00 | 0.00 | 26.96 | 3,478.20 | 4,001.80 | | -2,709.67 | -3,109.86 | 590.60 |
| 14 | 0.00 | 0.00 | 0.00 | 2,879.80 | 3,291,20 | | -2,239.88 | -2,562.18 | 479.13 |
| 15 | 0.00 | 0.00 | 0.00 | 2,431,00 | 2,730,20 | 0.9859 | -1,884.42 | -2,122,50 | 404.00 |
| 16 | 0.00 | 0.00 | 0.00 | 2,094.40 | 2,318.80 | | -3,051.58 | -1,799.28 | -153.18 |
| 17 | 0.00 | 0.00 | 0.00 | 1,795.20 | 1,982.20 | 0.9233 | -1,657.57 | -2,891.86 | -270.21 |
| 18 | 0.00 | 0.00 | 0.00 | 1,570.80 | 1,720.40 | 0.9233 | -1,450.37 | -1,588.50 | 88.32 |
| 19 | 0.00 | 0.00 | 0.00 | 1,346.40 | 1,496.00 | 0,9233 | -1,243.17 | -1,381.30 | 76.27 |
| 20 | 0.00 | 0.00 | 0.00 | 1,196.80 | 1,309.00 | | -1,105.04 | -1,208.64 | 67.24 |
| 21 | 0.00 | 0.00 | 0.00 | 1,047.20 | 1,159.40 | | -966.91 | -1,070.51 | 59.21 |
| 22 | 0.00 | 0.00 | 0.00 | | 1,009.80 | | -863.32 | -932.38 | 52.19 |
| 23 | 0.00 | 0.00 | 0.00 | | 897.60 | | -794.25 | -828.78 | 47,17 |
| 24 | 0.00 | 0.00 | 0.00 | | 822.80 | | -690.65 | -759.72 | 42.15 |
| 25 | 0.00 | 0.00 | 0.00 | | 748.00 | | -621.59 | -690.65 | 38.14 |
| 26 | 0.00 | 0.00 | 0.00 | | 673.20 | | -587.05 | -621.59 | 35.13 |
| 27 | 0.00 | 0.00 | 0.00 | | 598.40 | | -517.99 | -552.52 | 31.11 |
| 28 | 0.00 | 0.00 | 0.00 | | 561.00 | | -483.46 | -517.99 | 29.10 |
| 29 | 0.00 | 0.00 | 0.00 | | 523.60 | | -448.92 | -483.46 | 27.10 |
| 30 | 0.00 | 0.00 | 0.00 | | 448.80 | | -414.39 | -414.39 | 24.09 |
| 31 | 0.00 | 0.00 | 0_00 | | 411.40 | | -379.86 | -379.86 | 22.08 |
| 32 33 | 0.00 | 0.00 0.00 | 0.00 | 374,00 336.60 | 411.40 | | -345.33 | -379.86 | 21.08 |
| 34 | 0.00 | 0.00 | 0.00 0.00 | 336.60 | 374.00 336.60 | | -310.79 -310.79 | -345.33 -310.79 | 19.07 |
| 35 | 0.00 | 0.00 | 0.00 | 299.20 | 299.20 | | -276.26 | -276.26 | 18.06 16.06 |
| 36 | 0.00 | 0.00 | 0.00 | | 299.20 | | -276.26 | -276.26 | 16.06 |
| 37 | 0.00 | 0.00 | 0.00 | | 261.80 | | -241.73 | -241.73 | 14.05 |
| 38 | 0.00 | 0.00 | 0.00 | | 149.60 | | -138.13 | -138.13 | 8.03 |
| 39 | 0.00 | 0.00 | 0.00 | 74.80 | 74.80 | | -69.07 | -69.07 | 4.01 |
| 40 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 41 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 42 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 43 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 44 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 45 | 0.00 | 0.00 | 0.00 | | | | -34.53 | -34.53 | 2.01 |
| 46 | 0.00 | 0.00 | 0.00 | 37,40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 47 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | 0.9233 | -34.53 | -34.53 | 2.01 |
| 48 | 0.00 | 0.00 | 0.00 | 37,40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 49 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | | -34.53 | -34.53 | 2.01 |
| 50 | 0.00 | 0.00 | 0.00 | 37.40 | 37.40 | 0.9233 | -34 53 | -34.53 | 2.01 |
| | | | | | | | | | |

916,200.00

141,725.66 387,164.80 360,723.00

SOURCES: COL. 1: TABLE IV

COL. 2: COL. 1

COL. 3: COLS. 3, 4, 5, 6 & 7, TABLE III; AND TABLE IV

COLS. 4 & 5: WEIGHTS FOR ACCIDENT YEAR DISTRIBUTION: SEE ACCIDENT YEAR DISTRIBUTION

COL. 6: U. S, INTERNAL REVENUE SERVICE DISCOUNT FACTORS COLS. 7 & 8: CHANGE IN DISCOUNTED OUTSTANDING USING IRS FACTORS COL. 9: .35 x (COL. 1 - (.8 x COL. 2) - COL. 4 - COL. 5 - COL 7 - COL. 8)

TABLE V: NET CASH FLOWS FROM UNDERWRITING

| Column (1) | The Premium Flow Net of Reserves is Column (8) of Table III. |
|------------|--|
| Column (2) | Tax Credits from Underwriting is a quarterly flow of those credits in Column (9) in Table IV. |
| Column (3) | Expenses show a quarterly flow of Expenses prepared in the same fashion as the annual flows in Column (3) of Table IV. |
| Column (4) | Dividends are not used in this model as no provision has been made for dividends in this analysis. |
| Column (5) | Net Cash Flow from Underwriting is computed by adding Column (1) and Column (2) and subtracting Column (3). |

F CLASS INTERNAL RATE OF RETURN ANALYSIS STATE OF DELAWARE - 2017 TABLE V: NET CASH FLOWS FROM UNDERWRITING

| | | (4) | (0) | (0) | 741 | (5) |
|----------------|----------|------------------------|------------------------|------------------------|--------------|------------------------|
| TIME | INTERVAL | (1) PREMIUM | (2) TAX CREDITS | (3) | (4) | (5) NET CASH |
| FROM | TO | FLOW NET OF | FROM | EXPENSES | DIVIDENDS | FLOW FROM |
| | | RESERVES | UNDERWRITING | | | UNDERWRITING |
| -1.00 | | 0.00 | 0.13 | 0.00 | | 0.13 |
| -0.75 -0.50 | | 0.00 0.00 | 0.13 0.13 | 0.19 0.51 | 0.00 0.00 | -0,06 -0.38 |
| -0.25 | | 0.00 | 0.13 | 0.77 | | -0.64 |
| 0.00 | | -4,652.86 | -11,231.17 | 16,503,76 | | -32,387.78 |
| 0.25 | | 11,227.62 | -11,231.17 | 19,297,39 | | -19,300.93 |
| 0.50 | | 12,817,16 | -11,231.17 | 24,411.81 | | -22,825.81 |
| 0.75 1.00 | | 67,685.22 36,196.64 | -11,231.17 1,850.76 | 26,771.48 16,974.87 | | 29,682.57 21,072.53 |
| 1.25 | | 25,583.22 | 1,850.76 | 13,000.41 | | 14,433.57 |
| 1.50 | | 14,734.32 | 1,850.76 | 10,237.21 | 0.00 | 6,347,87 |
| 1.75 | | 4,608.68 | 1,850.76 | 6,370.90 | | 88.54 |
| 2.00 | | -71,193.32 | 824.21 | 3,192.70 | | -73,561.80 |
| 2,25 2.50 | | 24,883.99 16,572.23 | 824.21 824.21 | 1,734.93 1,155.43 | | 23,973.27 16,241.01 |
| 2.75 | | 8,689.24 | 824.21 | 605.82 | | 8,907.63 |
| 3,00 | 3.25 | 4,651,55 | 1,753,77 | 324.31 | 0.00 | 6,081.01 |
| 3.25 | | 2,766.01 | 1,753.77 | 192.85 | | 4,326.93 |
| 3.50 | | 1,786.59 1,045.38 | 1,753.77 1,753.77 | 124.56 72.89 | | 3,415.80 2,726.27 |
| 3.75 4.00 | | 525.90 | 1,176.16 | 36.67 | | 1,665.39 |
| 4.25 | | 893.30 | 1,176.16 | 62.28 | | 2,007.17 |
| 4.50 | | 1,320.24 | 1,176.16 | 92.05 | | 2,404.35 |
| 4.75 | | 1,169.99 | 1,176.16 | 81.57 | | 2,264.57 |
| 5.00 | | 634.01 | 2,963.92 | 44.20 | | 3,553.72 |
| 6.00 7.00 | | 1,103.10 1,928.60 | 2,272.54 2,009.97 | 76.91 134.46 | | 3,298.74 3,804.10 |
| 8.00 | | 1,649.16 | 1,420.34 | 114.98 | | 2,954.52 |
| 9.00 | | 424.20 | 1,058.74 | 29.58 | | 1,453.37 |
| 10,00 | | 377.47 | 917.54 | 26.32 | | 1,268.70 |
| 11.00 12.00 | | 385.72 386.64 | 728.11 590.60 | 26.89 26.96 | | 1,086.94 950.28 |
| 13.00 | | 0.00 | 479.13 | 0.00 | | 479.13 |
| 14.00 | | 0.00 | 404.00 | 0.00 | | 404.00 |
| 15.00 | | 0.00 | -153.18 | 0.00 | | -153.18 |
| 16.00 | | 0.00 | -270.21 | 0.00 | | -270.21 |
| 17.00 18.00 | | 0.00 0.00 | 88,32 76.27 | 0.00 | | 88.32 76.27 |
| 19.00 | | 0.00 | 67.24 | 0.00 | | 67.24 |
| 20.00 | | 0.00 | 59,21 | 0,00 | | 59.21 |
| 21,00 | | 0.00 | 52.19 | 0.00 | | 52.19 |
| 22.00 23.00 | | 0.00 0.00 | 47.17 42.15 | 0.00 | | 47.17 42.15 |
| 24.00 | | 0.00 | 38.14 | 0.00 | | 38.14 |
| 25.00 | | 0.00 | 35.13 | 0.00 | | 35.13 |
| 26.00 | | 0.00 | 31.11 | 0.00 | | 31.11 |
| 27.00 | | 0.00 | 29.10 | 0.00 | | 29.10 |
| 28.00 29.00 | | 0.00 | 27.10 24.09 | 0.00 | | 27.10 24.09 |
| 30.00 | | 0.00 | 22.08 | 0.00 | | 22.08 |
| 31.00 | | 0.00 | 21.08 | 0.00 | | 21.08 |
| 32.00 | | 0.00 | 19.07 | 0.00 | | 19.07 |
| 33.00 34.00 | | 0.00 0.00 | 18.06 16.06 | 0.00 | | 18.06 16.06 |
| 35.00 | | 0.00 | 16.06 | 0.00 | | 16.06 |
| 36.00 | | 0.00 | 14.05 | 0.00 | | 14,05 |
| 37.00 | | 0.00 | 8.03 | 0.00 | | 8.03 |
| 38.00 39.00 | | 0.00 | 4.01 | 0.00 | | 4.01 |
| 40.00 | | 0.00 0.00 | 2.01 2.01 | 0.00 | | 2.01 2.01 |
| 41.00 | | 0.00 | 2.01 | 0.00 | | 2.01 |
| 42.00 | 43.00 | 0.00 | 2.01 | 0.00 | 0.00 | 2.01 |
| 43.00 | | 0.00 | 2.01 | 0.00 | | 2.01 |
| 44.00 45.00 | | 0.00 0.00 | 2,01 2.01 | 0.00 | | 2.01 2.01 |
| 46.00 | | 0.00 | 2.01 | 0.00 | | 2.01 |
| 47.00 | | 0.00 | 2.01 | 0.00 | | 2.01 |
| 48.00 | 49.00 | 0-00 | 2.01 | 0.00 | | 2.01 |
| 49.00 | 50.00 | 0.00 | 2.01 | 0.00 | 0.00 | 2,01 |
| | | | | | | |

141,725.66

17,169.05

TABLE VI: DERIVATION OF FUNDS IN SURPLUS ACCOUNT

Column (1) Loss and Loss Adjustment Reserves is the difference between Losses Incurred (Column (5), Table III) and Losses Paid (Columns (4) and (5), Table IV).

Example: \$387,239.60 - 67,320.00 = \$319,919.60

- Column (2) Unearned Premium Reserves is Column (6) of Table III.
- Column (3) Admitted Agents Balances is Column (4) of Table III.
- Column (4) Cash Level is computed by adding Columns (1) and (2) and subtracting Column (3).

Example: \$319,919.60 + 441,883.26 - 668,233.22 = \$93,569.64

Column (5) Funds in Surplus Account is derived by adding Columns (1) and (2) and dividing that total by the reserve-to-surplus ratio used in the model, in this case, 1.92.

Example: (\$319,919.60 + 441,883.26) / 1.92 = \$396,772.32

F CLASS INTERNAL RATE OF RETURN ANALYSIS STATE OF DELAWARE - 2017 TABLE VI: DERIVATION OF FUNDS IN SURPLUS ACCOUNT

| | | (4) | (0) | (2) | (4) | (E) |
|----------------|----------------|--------------------------|--------------------------|---------------------------|--------------------------|--------------------------|
| TIME | INTERVAL | (1) LOSS AND | (2) UNEARNED | (3) ADMITTED | (4) CASH | (5) FUNDS IN |
| FROM | TO | LOSS ADJ. | PREMIUM | AGENTS | LEVEL | SURPLUS |
| | | RESERVES | RESERVES | BALANCES | | ACCOUNT |
| -1.00 | -0.75 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| -0.75 -0.50 | -0.50 -0.25 | 0.00 0.00 | 0.00 0.00 | -2,75 -10.08 | 2.75 10.08 | 0.00 0.00 |
| -0.25 | 0.00 | 0.00 | 0.00 | -21.07 | 21.07 | 0.00 |
| 0.00 | 0.25 | 17,802.40 | 209,168.46 | 227,072.84 | -101.98 | 118,213,99 |
| 0.25 | 0,50 | 77,492.80 | 353,836.44 | 425,486,03 | 5,843.21 | 224,650.65 |
| 0.50 | 0.75 | 179,894.00 | 447,472.08 | 571,664.82 | 55,701.26 | 326,753.17 |
| 0.75 1.00 | 1.00 1,25 | 319,919.60 447,341.40 | 441,883.26 244,717.02 | 668,233.22 475,905.43 | 93,569.64 216,152.99 | 396,772.32 360,447.09 |
| 1.25 | 1,50 | 527,564.40 | 105,363.00 | 325,971.13 | 306,956.27 | 329,649.69 |
| 1.50 | 1.75 | 559,541.40 | 25,103.88 | 201,057_34 | 383,587.94 | 304,502.75 |
| 1,75 | 2.00 | 546,488.80 | 0.00 | 116,985.91 | 429,502.89 | 284,629.58 |
| 2.00 2.25 | 2.25 2.50 | 527,489.60 508,490.40 | 0.00 0.00 | 0.00 0.00 | 527,489.60 508,490.40 | 274,734,17 264,838,75 |
| 2.50 | 2.75 | 489,491.20 | 0.00 | 0.00 | 489,491,20 | 254,943,33 |
| 2.75 | 3.00 | 470,492,00 | 0.00 | 0.00 | 470,492.00 | 245,047,92 |
| 3.00 | 3.25 | 432,718.00 | 0.00 | 0.00 | 432,718.00 | 225,373.96 |
| 3.25 | 3.50 | 394,944.00 | 0.00 | 0.00 | 394,944.00 | 205,700.00 |
| 3.50 3.75 | 3.75 4.00 | 357,170.00 319,396.00 | 0.00 0.00 | 0.00 | 357,170.00 319,396.00 | 186,026.04 166,352.08 |
| 4.00 | 4.25 | 297,012.10 | 0.00 | 0.00 | 297,012.10 | 154,693.80 |
| 4.25 | 4.50 | 274,628.20 | 0.00 | 0.00 | 274,628.20 | 143,035.52 |
| 4.50 | 4.75 | 252,244.30 | 0.00 | 0.00 | 252,244.30 | 131,377.24 |
| 4.75 5.00 | 5.00 6.00 | 229,860.40 174,059.60 | 0.00 0.00 | 0.00 0.00 | 229,860.40 174,059.60 | 119,718.96 90,656.04 |
| 6.00 | 7.00 | 136,884.00 | 0.00 | 0.00 | 136,884.00 | 71,293.75 |
| 7.00 | 8.00 | 110,629.20 | 0.00 | 0.00 | 110,629.20 | 57,619.38 |
| 8.00 | 9.00 | 91,405.60 | 0.00 | 0.00 | 91,405.60 | 47,607.08 |
| 9.00 | 10.00 | 76,670.00 | 0.00 | 0.00 | 76,670.00 | 39,932.29 |
| 10.00 11.00 | 11,00 12.00 | 65,225,60 56,100.00 | 0.00 0.00 | 0.00 0.00 | 65,225.60 56,100.00 | 33,971.67 29,218.75 |
| 12.00 | 13.00 | 48,620.00 | 0.00 | 0.00 | 48,620.00 | 25,322.92 |
| 13.00 | 14,00 | 42,411.60 | 0.00 | 0.00 | 42,411.60 | 22,089,37 |
| 14.00 | 15.00 | 37,250.40 | 0.00 | 0.00 | 37,250.40 | 19,401.25 |
| 15.00 16.00 | 16.00 17.00 | 32,837.20 29,022.40 | 0 00 0 00 | 0.00 | 32,837.20 29,022.40 | 17,102.71 15,115.83 |
| 17.00 | 18.00 | 25,806.00 | 0.00 | 0.00 | 25,806.00 | 13,440.62 |
| 18.00 | 19.00 | 22,963.60 | 0.00 | 0.00 | 22,963.60 | 11,960.21 |
| 19.00 | 20.00 | 20,420.40 | 0.00 | 0.00 | 20,420.40 | 10,635.63 |
| 20.00 21.00 | 21.00 22.00 | 18,176.40 16,231.60 | 0.00 | 0.00 0.00 | 18,176,40 16,231.60 | 9,466.88 8,453,96 |
| 22.00 | 23.00 | 14,436.40 | 0.00 | 0.00 | 14,436.40 | 7,518.96 |
| 23.00 | 24.00 | 12,865,60 | 0.00 | 0.00 | 12,865.60 | 6,700.83 |
| 24.00 | 25.00 | 11,444.40 | 0.00 | 0.00 | 11,444.40 | 5,960.63 |
| 25.00 26.00 | 26.00 27.00 | 10,172.80 8,976.00 | 0.00 | 0.00 0 ₋ 00 | 10,172.80 8,976.00 | 5,298.33 4,675.00 |
| 27.00 | 28.00 | 7,928.80 | 0.00 | 0.00 | 7,928.80 | 4,129,58 |
| 28.00 | 29.00 | 6,881.60 | 0.00 | 0.00 | 6,881,60 | 3,584,17 |
| 29.00 | 30.00 | 5,984.00 | 0.00 | 0.00 | 5,984.00 | 3,116.67 |
| 30.00 | 31.00 | 5,161.20 4,413.20 | 0.00 | 0.00 | 5,161.20 | 2,688.12 |
| 31.00 32.00 | 32.00 33.00 | 3,665.20 | 0.00 | 0.00 | 4,413.20 3,665.20 | 2,298,54 1,908.96 |
| 33.00 | 34.00 | 2,992.00 | 0.00 | 0.00 | 2,992.00 | 1,558.33 |
| 34.00 | 35.00 | 2,393.60 | 0.00 | 0.00 | 2,393.60 | 1,246.67 |
| 35.00 | 36.00 | 1,795.20 | 0.00 | 0.00 | 1,795.20 | 935.00 |
| 36,00 37.00 | 37.00 38.00 | 1,271.60 972.40 | 0.00 | 0.00 | 1,271.60 972.40 | 662.29 506.46 |
| 38.00 | 39.00 | 822.80 | 0.00 | 0.00 | 822.80 | 428.54 |
| 39.00 | 40.00 | 748.00 | 0.00 | 0.00 | 748.00 | 389.58 |
| 40.00 | 41.00 | 673.20 | 0.00 | 0.00 | 673.20 | 350.62 |
| 41.00 42.00 | 42.00 43.00 | 598.40 523.60 | 0.00 0.00 | 0.00 | 598.40 523.60 | 311.67 272.71 |
| 43.00 | 44.00 | 448.80 | 0.00 | 0.00 | 448.80 | 233.75 |
| 44,00 | 45.00 | 374.00 | 0.00 | 0.00 | 374.00 | 194.79 |
| 45.00 | 46.00 | 299.20 | 0.00 | 0.00 | 299.20 | 155.83 |
| 46.00 47.00 | 47.00 48.00 | 224.40 149.60 | 0.00 0.00 | 0.00 0.00 | 224.40 149.60 | 116.87 77.92 |
| 48.00 | 49.00 | 74.80 | 0.00 | 0.00 | 74.80 | 38.96 |
| 49.00 | 50.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE VII: NOMINAL CASH FLOWS TO INVESTORS

- Column (1) Net Cash Flow Underwriting is Column (5) of Table V.
- Column (2) Cash Pre-Tax Income is computed by multiplying the pre-tax investment yield rate times the periodic average Cash Level from Column (4), Table VI.

Example: (\$55,701.26 + 93,569.64) / 2 = \$74,635.45 \$74,635.45 x .044923110 / 4 = \$838.21

Column (3) Cash Income Taxes is computed by multiplying the investment income tax rate times the periodic average Cash Level from Column (4), Table VI.

Example: (\$55,701.26 + 93,569.64) / 2 = \$74,635.45 \$74,635.45 x .01062811 / 4 = \$198.31

Column (4) Net Flow from Surplus is the periodic change in Surplus Balance posted in Column (5) of Table VI.

Example: \$326,753.17 - 396,772.32 = -\$70,019.16

Column (5) Surplus Pre-Tax Income is computed by applying the pre-tax investment yield to average periodic surplus balance computed from Column (5) of Table VI.

Example: (326,753.17 + 396,772.32) / 2 = \$361,762.74 \$361,762.74 x .044923110 / 4 = \$4,062.88

Column (6) Surplus Income Taxes is the product of the investment income tax rate and the average periodic surplus balance computed from Column (5) of Table VI.

Example: (326,753.17 + 396,772.32) / 2 = \$361,762.74 \$361,762.74 x .01062811 / 4 = \$961.21

Column (7) Net Cash Flow is the sum of Columns (1) through (6) and represents the net flows to investors which result in a rate of return of 8.71 percent to investors in the insurance company as required by the Internal Rate of Return Model.

Example: \$29,682.57 + 838.21 - 198.31 - 70,019.16 + 4,062.88 - 961.21 = -\$36,595.02

F CLASS INTERNAL RATE OF RETURN ANALYSIS STATE OF DELAWARE - 2017 TABLE VII: NOMINAL CASH FLOWS TO INVESTORS

| | | (4) | (0) | (0) | 743 | (5) | (0) | (7) |
|----------------|----------------|------------------------|----------------------|------------------------|-----------------|----------------------|---------------------------------|-------------------------------|
| TIME | INTERVAL | (1) NET CASH | (2) CASH | (3) CASH | (4) NET FLOW | (5) SURPLUS | (6) SURPLUS | (7) NET |
| FROM | TO | FLOW FROM | PRE-TAX | INCOME | FOR SURPLUS | | INCOME | CASH |
| | | UNDERWRITING | INCOME | TAXES | ACCOUNT | INCOME | TAXES | FLOW |
| -1.00 | -0.75 | 0.13 | 0.00 | 0.00 | | 0.00 | 0.00 | 0.13 |
| -0.75 | -0.50 | -0.06 | 0.02 | 0.00 | | 0.00 | 0.00 | -0.05 |
| -0.50 -0.25 | -0.25 0.00 | -0.38 -0.64 | 0.07 0.17 | -0.02 -0.04 | | 0.00 | 0.00 | -0.33 -0.50 |
| 0.00 | 0.25 | -32,387.78 | -0.45 | 0.11 | -118,213.99 | 663.82 | | -150,095.35 |
| 0.25 | 0.50 | -19,300.93 | 32.24 | -7.63 | | 1,925.32 | | -124,243.16 |
| 0.50 | 0.75 | -22,825.81 | 345.60 | -81.76 | | 3,096.35 | | -122,300.70 |
| 0.75 | 1.00 | 29,682.57 | 838.21 | -198.31 | -70,019.16 | 4,062.88 | -961.21 | -36,595.02 |
| 1.00 1.25 | 1.25 1.50 | 21,072.53 14,433.57 | 1,739.21 2,937.46 | -411.47 -694.96 | | 4,252.08 3,875.16 | -1,005.98 | 61,971.61 |
| 1.50 | 1.75 | 6,347.87 | 3,877.67 | -917.40 | | 3,561.01 | -916.80 -842 ₋ 48 | 50,431.84 37,173.61 |
| 1.75 | 2.00 | 88.54 | 4,565.82 | -1,080.20 | | 3,308,21 | -782.67 | 25,972.86 |
| 2.00 | 2,25 | -73,561.80 | 5,373.88 | -1,271.38 | | 3,141.04 | -743.12 | -57,165.96 |
| 2.25 | 2,50 | 23,973.27 | 5,817.43 | -1,376.31 | | 3,029,91 | -716.83 | 40,622.89 |
| 2.50 | 2.75 | 16,241.01 | 5,604.05 | -1,325.83 | | 2,918.78 | -690.54 | 32,642.89 |
| 2.75 3.00 | 3.00 3.25 | 8,907.63 6,081.01 | 5,390.68 5,071.88 | -1,275.35 -1,199.93 | | 2,807.65 2,641.60 | -664.25 -624.96 | 25,061.78 31,643.55 |
| 3.25 | 3.50 | 4,326.93 | 4,647.64 | -1,099.56 | | 2,420.65 | -572.69 | 29,396.93 |
| 3.50 | 3.75 | 3,415.80 | 4,223.41 | -999.19 | | 2,199.69 | -520.41 | 27,993.25 |
| 3,75 | 4.00 | 2,726.27 | 3,799.18 | -898.83 | | 1,978.74 | -468.14 | 26,811,18 |
| 4.00 | 4,25 | 1,665.39 | 3,461.37 | -818.91 | | 1,802.80 | -426.51 | 17,342.42 |
| 4.25 4.50 | 4.50 4.75 | 2,007.17 2,404.35 | 3,209,98 | -759.43 -699.96 | | 1,671.87 | -395.54 -364.56 | 17,392.33 17,497.64 |
| 4.50 | 5.00 | 2,404.35 2,264.57 | 2,958.59 2,707.21 | -640.48 | | 1,540.93 1,410.00 | -333.58 | 17,497,64 |
| 5.00 | 6.00 | 3,553.72 | 9,072.67 | -2,146.45 | | 4,725.35 | -1,117.94 | 43,150.26 |
| 6.00 | 7.00 | 3,298.74 | 6,984.28 | -1,652.37 | | 3,637.64 | -860,61 | 30,769.97 |
| 700 | 8.00 | 3,804.10 | 5,559.53 | -1,315.30 | | 2,895,59 | -685,05 | 23,933.25 |
| 8.00 | 9.00 | 2,954.52 | 4,538.02 | -1,073.62 | | 2,363.55 | -559.18 | 18,235.57 |
| 9.00 10.00 | 10.00 11.00 | 1,453.37 1,268.70 | 3,775.24 3,187.20 | -893.16 -754.04 | | 1,966.27 1,660.00 | -465.19 | 13,511.32 10,929.75 |
| 11.00 | 12.00 | 1,086.94 | 2,725.16 | -644.73 | | 1,419.36 | -392.73 -335.80 | 9,003.84 |
| 12.00 | 13.00 | 950.28 | 2,352.17 | -556.49 | | 1,225.09 | -289.84 | 7,577.05 |
| 13.00 | 14.00 | 479.13 | 2,044.71 | -483.75 | | 1,064.95 | -251,95 | 6,086.64 |
| 14.00 | 15.00 | 404.00 | 1,789.33 | -423.33 | | 931.94 | -220.48 | 5,169.59 |
| 15.00 | 16.00 | -153.18 | 1,574.28 | -372.45 | | 819.94 | -193.98 | 3,973.14 |
| 16.00 17.00 | 17.00 18.00 | -270.21 88.32 | 1,389.46 1,231.53 | -328.73 -291.36 | | 723.68 641.42 | -171.21 -151.75 | 3,329,87 3,193.37 |
| 18.00 | 19.00 | 76.27 | 1,095.44 | -259.16 | | 570.54 | -134.98 | 2,828.53 |
| 19.00 | 20.00 | 67.24 | 974.47 | -230.55 | | 507.54 | -120.08 | 2,523.21 |
| 20.00 | 21.00 | 59.21 | 866.94 | -205.11 | | 451.53 | -106.83 | 2,234.51 |
| 21.00 | 22.00 | 52.19 | 772.86 | -182.85 | | 402.53 | -95,23 | 1,962.41 |
| 22.00 | 23.00 | 47:17 | 688,85 | -162.97 | | 358.78 | -84.88 | 1,781.94 |
| 23.00 24.00 | 24.00 25.00 | 42.15 38.14 | 613.25 546.04 | -145.08 -129.18 | | 319.40 284.40 | -75.56 -67.28 | 1,572,27 1,412,31 |
| 25.00 | 26.00 | 35.13 | 485.56 | -114.88 | 662.29 | 252.89 | -59.83 | 1,261.16 |
| 26.00 | 27.00 | 31.11 | 430.11 | -101.76 | 623.33 | 224.02 | -53,00 | 1,153,82 |
| 27.00 | 28.00 | 29.10 | 379.71 | -89.83 | | 197.76 | -46.79 | 1,015.37 |
| 28.00 | 29.00 | 27.10 | 332.66 | -78.70 | | 173.26 | -40.99 | 958.75 |
| 29.00 30.00 | 30.00 31.00 | 24.09 22.08 | 288.98 250.34 | -68.37 -59.23 | | 150.51 130.38 | -35.61 -30.85 | 827,10 741,27 |
| 31.00 | 32.00 | 21.08 | 215.06 | -50.88 | | 112.01 | -26.50 | 660.34 |
| 32.00 | 33.00 | 19.07 | 181.45 | -42.93 | | 94.51 | -22.36 | 619.32 |
| 33.00 | 34.00 | 18.06 | 149.53 | -35.38 | | 77.88 | -18,43 | 542.30 |
| 34.00 | 35,00 | 16.06 | 120.97 | -28.62 | | 63.00 | -14.91 | 468.17 |
| 35.00 | 36.00 | 16.06 | 94.09 | -22.26 | | 49.00 | -11.59 | 436.96 |
| 36,00 37.00 | 37.00 38.00 | 14.05 8.03 | 68.89 50.40 | -16.30 -11.92 | | 35.88 26.25 | -8.49 -6.21 | 366.74 222 ₁ 38 |
| 38.00 | 39.00 | 4.01 | 40.32 | -9.54 | | 21.00 | -4.97 | 128.75 |
| 39.00 | 40,00 | 2.01 | 35.28 | -8.35 | | 18.38 | -4.35 | 81.93 |
| 40.00 | 41.00 | 2,01 | 31.92 | -7,55 | | 16.63 | -3.93 | 78.03 |
| 41 00 | 42.00 | 2.01 | 28.56 | -6.76 | | 14.88 | -3.52 | 74.13 |
| 42.00 43.00 | 43.00 44.00 | 2.01 2.01 | 25.20 21.84 | -5.96 -5.17 | | 13.13 11.38 | -3.11 -2.69 | 70.23 66.32 |
| 44.00 | 45.00 | 2.01 | 18.48 | -5.17 -4.37 | | 9.63 | -2.09 | 62.42 |
| 45.00 | 46.00 | 2.01 | 15.12 | -3.58 | | 7.88 | -1.86 | 58.52 |
| 46.00 | 47.00 | 2.01 | 11.76 | -2.78 | 38.96 | 6.13 | -1.45 | 54.62 |
| 47.00 | 48.00 | 2.01 | 8.40 | -1.99 | | 4.38 | -1.04 | 50.72 |
| 48.00 | 49.00 | 2.01 | 5.04 | -1.19 | | 2.63 | -0.62 | 46.82 |
| 49.00 | 50.00 | 2,01 | 1.68 | -0.40 | 38,96 | 0.88 | -0.21 | 42.92 |

DELAWARE PRE & POST TAX RETURNS PAGE 1

Column (1) Invested Assets

Categories taken from Best's Aggregates and Averages with values as of December 31, 2015.

Column (2) 12/31/15 Market Values

Treasuries, Exempt Bonds, Bonds for Unaffiliated and Affiliated Companies, Preferred Stock for Unaffiliated and Affiliated Companies and Common Stock for Unaffiliated and Affiliated Companies all taken from 2016 Best's Aggregates and Averages, Industry Total Schedule D.

Column (3) Pre-Tax Return

Treasuries based on yields by Maturity published in Federal Reserve Statistical Release H. 15 (July 7, 2017), weighted by loss payout pattern provided by the DCRB for Delaware workers compensation insurance.

Exempt Bonds based on yields by Maturity published in Bond Buyer, Municipal Market Statistics (July 6, 2017).

Bonds based on yields published by the Federal Reserve Bank of St. Louis (July 7, 2017).

Preferred stock yields based on Dividend Yield Hunter (July 10, 2017).

Common Stock Yield based on three-month Treasury Bill rate (Federal Reserve) plus Ibbotson Differential (2017 Ibbotson SBBI).

Mortgages based on yields published by the Federal Reserve Bank of St. Louis (July 7, 2017).

Real Estate Yield based on three-month Treasury Bill rate (Federal Reserve) plus Ibbotson Differential (Ibbotson & Seigel, AREUA Journal, Vol 12, No. 3, 1984).

Cash & Short Term Investment yield based on short-term treasury yield as published in Federal Reserve Statistical Release H. 15 (July 7, 2017).

Column (4) Investment Gain

Product of 12/31/15 Market Value times Pre-Tax Return expressed as a decimal value by asset type.

DELAWARE PRE & POST TAX RETURNS PAGE 2

Column (5) Tax Rate

(Percent Taxable x .35) + ((1.0 - Percent Taxable) x .15 x .35)

Percent Taxable Treasuries, Unaffiliated Bonds, Mortgages & Real Estate and Cash & Short Term Investments all assumed to be 100 percent taxable.

Exempt Bonds, Bonds in Affiliated Companies and Preferred Stock in Affiliated Companies all assumed to be tax-free.

Preferred Stock in Unaffiliated Companies: 30 percent of dividend income taxable per Tax Reform Act of 1986; all income attributed to dividends for preferred stock.

Common Stock of Affiliated Companies: 100 percent of capital gains in affiliated companies subject to income tax per Tax Reform Act of 1986. Portion of common stock income attributed to capital gains is 0.6581.

Common Stock of Unaffiliated Companies: Capital gains are taxed at the full rate, 30 percent of dividends are taxed at the full rate, and 15 percent of the remaining dividends (70 percent) are subject to tax. $(0.6581 \times 0.35) + (0.30 \times 0.35 \times 0.3419) + (0.70 \times 0.3419 \times 0.15 \times 0.35) = 0.2788$. Portions of common stock income attributable to dividend and capital gains from Duff & Phelps' 2017 SBBI lbbotson (Large Company Stocks, Arithmetic Mean).

Column (6) Post Tax Return

Pre-Tax Return x (1.0 - Tax Rate)

INTERNAL RATE OF RETURN ANALYSIS DELAWARE "F" CLASS - 2017 PRE & POST TAX RETURNS

| Invested Assets | Assets | Pre Tax Return | Investment Gain | Tax Rate | Post Tax Return |
|----------------------|---------------|-------------------|--------------------|----------|--------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| | | | | i3 | |
| Treasuries | 130,107,496 | 1.80 | 2,341,153 | 0.35000 | 1.169609 |
| Exempt Bonds | 437,658,766 | 3.60 | 15,755,716 | 0.05250 | 3.411000 |
| Bonds (Unaffil) | 425,878,988 | 3.74 | 15,927,874 | 0.35000 | 2.431000 |
| Bonds (Affiliated) | 14,010,086 | 3.74 | 523,977 | 0.05250 | 3.543650 |
| Prefer Stk (Unaff) | 15,520,311 | 5.24 | 813,264 | 0.14175 | 4.497230 |
| Prefer Stk (Affil) | 271,613 | 5.24 | 14,233 | 0.05250 | 4.964900 |
| Common Stk (Unaff) | 253,977,545 | 9.57 | 24,305,651 | 0.27880 | 6.901884 |
| Common Stock (Affil) | 76,035,202 | 9.57 | 7,276,569 | 0.24830 | 7.193769 |
| Mortgage Loans | 12,440,639 | 3.96 | 492,649 | 0.35000 | 2.574000 |
| Real Estate | 11,747,306 | 4.99 | 586,191 | 0.35000 | 3.243500 |
| Cash and ST Invest | 91,916,979 | 1.16 | 1,066,237 | 0.35000 | 0.754000 |
| Average or Total | 1,469,564,931 | | 69,103,513 | | 3.566000 |

- 1. Assets are from the latest (2016) Best's A&A, Market Value Dec 31, 2015
- 2. Yields are from:
- a) Treasuries and Cash & Short Term Invest are from: Federal Reserve H.15, July 7, 2017.
- b) Exempt Bonds are from: Bond Buyer, Municipal Market Statistics, Bond Buyer Index, general obligation, 20 years to maturity, mixed quality, July 6th, 2017.
- c) Bonds (Unaffiliated and Affiliated) are Moody's Seasoned Aaa Corporate Bond Yield from: Federal Reserve Bank of St. Louis, July 7th, 2017.
- d) Preferred Stocks are from: Preferred Stocks of Utilities, July 10, 2017, Dividend Yield Hunter
- e) Mortgage Loans are from: Federal Reserve Bank of St. Louis, July 7th, 2017.
- f) Common Stock: 3 month Treasury (1.05) + Ibbotson Differential (8.52%)
- g) Real Estate: 3 month Treasury (1.05) + Ibbotson Differential (3.94)

Differential from: Ibbotson & Seigel, AREUA Journal, Vol 12, No. 3, 1984

| PRE TAX WEIGHTED PORTFOLIO YIELD - INVEST EXP | PENSE = | 4.4923110 |
|---|---------|-----------|
| POST TAX WEIGHTED YIELD - POST TAX EXPENSE | = | 3.4294995 |

DELAWARE COST OF CAPITAL

- All data taken from Value Line Investment Survey of June 9, 2017.
- All Property/Casualty Companies Selected with limited exceptions, such as reinsurers and carriers without any workers compensation insurance writings.
- Individual carrier inclusions/exclusions from selected list noted as having limited effect on indicated results.
- DCF FORECAST COST OF CAPITAL

$$=$$
 .0215 x (1.0 + 0.5 x .0674) + .0674

DCF HISTORICAL COST OF CAPITAL

$$=$$
 .0215 x (1.0 + 0.5 x .0640) + .0640

DCF DIVIDENDS ONLY COST OF CAPITAL

$$=$$
 .0215 x (1.0 + 0.5 x .0606) + .0606

Note: .0606 = Average (.0704, .0508)

2017 DELAWARE "F" CLASS COST OF CAPITAL

| COMPANY | ВЕТА | YIELD | DIVIDEND PAST 5 YEARS | EARNINGS PAST 5 YEARS | EARNINGS | DIVIDEND FORECAST | RETAINED TO EQUITY FORECAST |
|--|--|--|---|---|---|--|---|
| | | | | | | | |
| Allstate Amer FnI Berkley Chubb Cinc FnI Merc Gen | 0.85 0.85 0.80 0.85 0.85 0.70 | 1.7 1.3 0.8 2.0 2.9 4.5 | 6.5 11.5 11.0 15.5 4.0 1.0 | 15.0 3.5 8.0 4.0 12.0 -2.0 | 7.5 7.0 7.0 8.0 6.5 14.0 | 4.0 8.5 4.5 4.5 3.0 2.5 | 8.0 7.0 9.0 8.0 4.5 4.5 |
| Old Rep Progressive RLI Corp Selective Travelers XL Group | 1.10 0.85 0.90 0.95 0.85 0.90 | 3.9 1.6 1.5 1.3 2.3 2.0 | 1.5 16.5 5.5 1.0 10.5 0.0 | 0.0 4.5 -1.5 9.5 14.5 | 9.0 8.0 6.5 6.5 1.0 13.0 | 3.5 8.0 4.0 5.5 4.0 9.0 | 5.0 11.5 7.0 8.0 7.5 7.5 |
| | 0.87 | 2.15 | 7.04 | 5.75 | 7.83 | 5.08 | 7.29 |

SOURCE: VALUE LINE INVESTMENT SURVEY, June 9, 2017

DCF COST OF CAPITAL

FORECAST

| A. EARNINGS B. DIVIDEND C. FUNDAMENT | 7.83 5.08 7.29 | |
|--|----------------------|---------|
| FORECAST = (A+B+C)/3 | | 6.74 |
| FORECAST COST OF CAPITAL = | 8.96 | PERCENT |
| | | |
| | | |

HISTORICAL

| A. EARNINGS | 5.75 |
|-------------|------|
| B. DIVIDEND | 7.04 |
| | |

HISTORICAL = (A+B)/2 6.40

HISTORICAL COST OF CAPITAL = 8.61 PERCENT

DIVIDENDS ONLY (GROWTH & HISTORICAL)

8.28 PERCENT

2017 **DELAWARE "F" CLASS COST OF CAPITAL**

A) CAPM COST OF CAPITAL 1.05 + 0.87(8.52)

8.46 PERCENT

B) FORECAST COST OF CAPITAL

8.96 PERCENT

C) COST OF CAPITAL

(A + B)/2 =

8.71 PERCENT

SOURCES:

A: CAPM: BETA - VALUE LINE INVESTMENT SURVEY JUNE 9, 2017

RF - 3 MONTH BILL RATE WEEK ENDED July 7, 2017. FEDERAL RESERVE H. 15 (July 12, 2017)

RM - RF = IBBOTSON DIFFERENTIAL (STOCK MARKET TO 3 MONTH BILL RATE, 1926 TO 2016 AVERAGE) = 8.52 IBBOTSON SBBI (2017)

B: DCF: K = Y (1+0.5G) + G

Y IS THE CURRENT DIVIDEND YIELD (FROM VALUE LINE) G IS THE DIVIDEND GROWTH RATE (FROM VALUE LINE)

DELAWARE RESERVE-TO-SURPLUS RATIOS

Columns (1) - (4) Reserves and policyholder surplus for commercial casualty

predomination carriers all taken from Best's Aggregates and Averages

with values as of December 31, 2015.

Column (5) Reserve-to-Surplus ratio is the sum of the reserves in columns (1)

through (3) divided by the policyholder surplus in column (4).

2,092,129,309 + 460,652,843 + 757,826,074 = 3,310,608,226

3,310,608,226 / 1,721,434,441 = 1.92

F CLASS INTERNAL RATE OF RETURN ANALYSIS DELAWARE - 2017 RESERVE-TO-SURPLUS RATIO (\$000 OMITTED)

| | | Rese | | Reserve to | | |
|-------|---------------|-------------|-------------|---------------|---------------|----------|
| Year | Unpaid | Unpaid | Unearned | Total | Policyholder | Surplus |
| | Losses | LAE | Premium | | Surplus | Ratio |
| | (1) | (2) | (3) | (4) | (5) | (6) |
| | | | | =(1)+(2)+(3) | | =(4)/(5) |
| 2015 | 185,919,427 | 42,816,231 | 73,469,477 | 302,205,135 | 169,017,203 | 1.79 |
| 2014 | 214,239,981 | 48,564,685 | 83,674,315 | 346,478,981 | 192,947,461 | 1.80 |
| 2013 | 215,275,673 | 47,841,227 | 81,229,642 | 344,346,542 | 182,832,920 | 1.88 |
| 2012 | 212,275,479 | 46,533,070 | 75,723,720 | 334,532,269 | 174,892,306 | 1.91 |
| 2011 | 211,071,160 | 46,773,232 | 72,629,793 | 330,474,185 | 168,688,743 | 1.96 |
| 2010 | 205,216,164 | 46,218,644 | 70,321,822 | 321,756,630 | 169,994,041 | 1.89 |
| 2009 | 198,967,379 | 44,764,375 | 68,284,967 | 312,016,721 | 168,729,059 | 1.85 |
| 2008 | 202,795,932 | 44,362,097 | 71,195,426 | 318,353,455 | 153,498,767 | 2.07 |
| 2007 | 228,531,553 | 47,560,882 | 82,176,262 | 358,268,697 | 180,020,654 | 1.99 |
| 2006 | 217,836,561 | 45,218,400 | 79,120,650 | 342,175,611 | 160,813,287 | 2.13 |
| Total | 2,092,129,309 | 460,652,843 | 757,826,074 | 3,310,608,226 | 1,721,434,441 | 1.92 |

AM Best's Aggregates & Averages - Property & Casualty Commercial Casualty Composite Source: