Chapter 17 - Unallocated Loss Adjustment Expenses New Small Insurer - Mango-Allen Refinement Technique Development of Expected Paid Claims in Calendar Year

|          | Direct     | Expected |           |  |      |      |                                       |         |         |         |           |
|----------|------------|----------|-----------|--|------|------|---------------------------------------|---------|---------|---------|-----------|
| Accident | Earned     | Claims   | Expected  | Expected Payment Percentage in Calendar Year |      |      | Expected Claims Paid in Calendar Year |         |         |         |           |
| Year     | Premium    | Ratio    | Claims    | 2005   | 2006 | 2007 | 2008                                  | 2005    | 2006    | 2007    | 2008      |
| (1)      | (2)        | (3)      | (4)       | (5)  | (6)  | (7)  | (8)                                   | (9)     | (10)    | (11)    | (12)      |
| 2005     | 4,300,000  | 55%      | 2,365,000 | 12%  | 15%  | 15%  | 15%                                   | 283,800 | 354,750 | 354,750 | 354,750   |
| 2006     | 4,250,000  | 55%      | 2,337,500 |  | 12%  | 15%  | 15%                                   |         | 280,500 | 350,625 | 350,625   |
| 2007     | 4,420,000  | 55%      | 2,431,000 |  |      | 12%  | 15%                                   |         |         | 291,720 | 364,650   |
| 2008     | 3,985,000  | 55%      | 2,191,750 |  |      |      | 12%                                   |         |         |         | 263,010   |
| Total    | 16,955,000 |          | 9,325,250 |  |      |      |                                       | 283,800 | 635,250 | 997,095 | 1,333,035 |

## Column Notes:

$$(11) = [(4) \times (7)].$$

$$(12) = [(4) \times (8)].$$

<sup>(2)</sup> Based on information provided by New Small Insurer.

<sup>(3)</sup> Based on actuarial analysis conducted for pricing purposes.

 $<sup>(4) = [(2) \</sup>times (3)].$ 

<sup>(5)</sup> through (8) Based on actuarial analysis of insurance industry benchmark paid claims development experience.

 $<sup>(9) = [(4) \</sup>times (5)].$ 

 $<sup>(10) = [(4) \</sup>times (6)].$ 

Chapter 17 - Unallocated Loss Adjustment Expenses New Small Insurer - Mango-Allen Refinement Technique Development of Unpaid ULAE

Exhibit III Sheet 2

|               |           | <b>ULAE</b> Ratio |           |                          |          |  |  |
|---------------|-----------|-------------------|-----------|--------------------------|----------|--|--|
| Calendar Paid |           | Paid C            | laims     | Paid ULAE-to-Paid Claims |          |  |  |
| Year          | ULAE      | Actual            | Expected  | Actual                   | Expected |  |  |
| (1)           | (2)       | (3)               | (4)       | (5)                      | (6)      |  |  |
| 2005          | 55,000    | 1,253,450         | 283,800   | 0.044                    | 0.194    |  |  |
| 2006          | 62,500    | 86,000            | 635,250   | 0.727                    | 0.098    |  |  |
| 2007          | 70,000    | 410,650           | 997,095   | 0.170                    | 0.070    |  |  |
| 2008          | 80,000    | 309,600           | 1,333,035 | 0.258                    | 0.060    |  |  |
| Total         | 267,500   | 2,059,700         | 3,249,180 | 0.130                    | 0.082    |  |  |
| (7) Selected  | 0.070     |                   |           |                          |          |  |  |
| (8) Case Ou   | 225,000   |                   |           |                          |          |  |  |
| (9) Total IB  | 6,430,000 |                   |           |                          |          |  |  |
| (10) Pure IE  | 109,588   |                   |           |                          |          |  |  |
| (11) Estima   | 457,975   |                   |           |                          |          |  |  |
| (12) Estima   | 236,761   |                   |           |                          |          |  |  |

## Column and Line Notes:

- (2) and (3) Based on data from New Small Insurer.
- (4) Developed in Exhibit III, Sheet 1.
- (5) = [(2)/(3)].
- (6) = [(2)/(4)].
- (7) Selected based on ULAE ratios in (6) and input of management of New Small Insurer.
- (8) Based on claims data from New Small Insurer.
- (9) Based on actuarial analysis at 12/31/08.
- (10) Estimated assuming pure IBNR is equal to 5% of accident year expected claims.
- $(11) = \{ [(7) \times 50\% \times (8)] + [(7) \times 100\% \times (9)] \}.$
- $(12) = \{ [(7) \times 50\% \times ((8) + (9) (10))] + [(7) \times 100\% \times (10)] \}.$