Calculation of Premium Reductions under 7 CFR §400.720(b)(2)

BASELINE YEAR

Determine a state-by-state A&O cost percentage for the Baseline Year (initially the 2005 reinsurance year or as determined by RMA) as follows:

- A1: State level total net book premium (from RMA database)
- A2: State level buy-up premium (from RMA database)
- A3: State level CAT premium (from RMA database)
- A4: State level A&O subsidy (from RMA database)
- A5: State level CAT LAE (loss adjustment expense) subsidy (from RMA database)
- A6: State level agent compensation (from Exhibit 10m)
- A7: State level loss adjustment expense (from Exhibit 10n)
- A8: Total MPCI expenses (from Exhibit 10o)

A9: Total Overhead = total MPCI expenses less total state level agent compensation less total state level loss adjustment expense:

A8 - Sum (A6) - Sum (A7)

A10: Overhead Percentage = total overhead as a percentage of total buy-up premium: A9 / Sum (A2)

A11: Overhead Allocation = state by state allocation of overhead based on the overhead percentage: A10 * A2

A12: Allocated A&O Cost = agent compensation plus LAE plus overhead less CAT LAE: A6 + A7 + A11 - A5

A13: A&O Cost Percentage = allocated A&O costs as a percentage of buy-up premium by state. If a state has no buy-up premium for the Baseline Year, the A&O cost percentage for that state is determined by taking total A&O costs as a percentage of total buy-up premium.

If A2 > 0: A12/A2If A2 = 0: Sum (A12) / Sum (A2)

PRP YEAR

Determine a state-by-state A&O cost percentage for the PRP Year (the reinsurance year for which company is requesting a premium reduction) as follows:

B1 through B12: Identical to the respective data definitions and calculations for the Baseline Year (A1 through A12), except that data for the PRP Year are used.

B13: A&O Cost Percentage = allocated A&O costs as a percentage of buy-up premium by state. If a state has no premium for the PRP Year, then a value of 0.00% will be used.

If $B2 > 0$:	B12/B2
If $B2 = 0$:	0.00%

B14: Total Efficiency = A&O subsidy less A&O costs. A&O costs are total expenses less CAT LAE:

Sum (B4) - (B8 - Sum (B5))

PREMIUM REDUCTION CALCULATIONS

Determine the maximum premium reduction and maximum premium discounts by state as follows:

C1: Efficiency Change Rate = the change in A&O cost percentage from the Baseline Year to the PRP Year. If buy-up premium is zero for the PRP Year for the state, then the efficiency change rate will be 0.00%.

If B2 > 0: A13 - B13If B2 = 0: 0.00%

C2: Efficiency Due to Change = efficiency change rate multiplied by buy-up premium by state: C1 * B2

C3: Residual Efficiency Factor = total efficiency less the total of all state-level efficiencies due to change. If the difference between total efficiency and total state-level efficiencies due to change is less than or equal to zero, then the residual efficiency factor is set to 0.00%.

If (B14 - Sum (C2)) > 0: (B14 - Sum (C2)) / Sum (B2)If $(B14 - Sum (C2)) \le 0$: 0.00%

C4: Residual Efficiency = buy-up premium for each state multiplied by the residual efficiency factor.

B2 * C3

C5: Preliminary Efficiency = the sum of the state-level efficiency due to change and the state-level efficiency due to condition:

C2 + C4

C6: Maximum Premium Reduction Amount = the maximum dollar premium reduction that can be paid by state. If the total preliminary efficiency exceeds the total efficiency, then the maximum premium discount amount for a state will prorated down by the ratio of total preliminary efficiency to total efficiency. Also, the maximum premium reduction amount for a state will be limited to a maximum percentage of buy-up premium determined by RMA (initially set for 2006 and 2007 at 4.0 percent according to 7 CFR §400.715(a)).

If Sum (C5) > B14: Minimum $[C5^*(B14/Sum(C5))]$ and $B2^*.04$] If Sum (C5) \leq B14: Minimum [C5] and $(B2^*.04)$]

C7: Maximum Premium Reduction Percentage = maximum premium reduction amount as a percentage of buy-up premium. If a state has no buy-up premium for the PRP Year, then the value will be set to 0.00%:

If B2 > 0: C6 / B2 If B2 = 0: 0.00%

REQUESTED PREMIUM REDUCTIONS AND RMA APPROVAL CHECK

D1: Amount of premium reduction by state requested by the company.

D2: Percentage premium reduction by state requested by the company.

D3: RMA approval check to ensure that D1 is less than or equal to C6.

D4: RMA approval check to ensure that D2 is less than or equal to C7.