Memorandum

From: Div 66 Actuarial

Michael Tranfaglia Emily Turek

To: E. Allen, S. Leeret, B. Harris, R. D'Alfonso, J. Parker, R. O'Neil, G. Scarborough

CC: J. Johnson, K. Hanna, J. Heaney, C. Steinbach, R. Cole, B. McCoy,

I. Robbin, A. Markham, J. Stracher

Date: 8/18/2014

Re: Division 66 - 2014 Preferred Aviation US Profitability Study

I. Executive Summary

A. Introduction -

The Preferred Aviation program offers commercial property, general liability, and auto liability for aviation related risks. The analysis is segmented by line of business into General Liability, Auto Liability, Property, and Auto Physical Damage.

Last year's analysis resulted in an overall PY 2014 Ultimate Loss Ratio indication of 39.8% which yielded a RAP neutral rate need of -33.6% based on 2013 RAP values.

The year to date rate change for 2014 is -0.5% for all lines of business.

B. Summary of Results

IL and LAE evaluated as of: 2nd Quarter 2014

Currency Employed: <u>USD</u>

Exhibit 1:

			2014	Projected		RAP		
			Budgeted	Ultimate		Breakeven		
Line of	Sub-	Policy	GWP	IL and LAE	Combined	Target	RAP Rate	Projected
Business	Segment	Year	(000)	Ratio*	Ratio*	Combined Ratio	Need	RAP \$ **
GL	N/A	2014	313	50.8%	85.8%	98.2%	-18.7%	26
AL	N/A	2014	4,592	54.0%	84.0%	97.8%	-19.6%	423
Property	N/A	2014	10,038	40.7%	75.6%	92.7%	-28.3%	1,208
APD	N/A	2014	751	57.0%	87.5%	97.3%	-13.7%	49
TOTAL			15,694	45.5%	78.8%	94.5%	-24.5%	1,705

^{*} Includes PY 2014 rate change achieved

Discussion of Material Findings— The program remains very profitable despite prior policy year adverse development of approximately 2% from the prior profitability study performed as of 1Q13. The deterioration in Property line was partially offset by better than expected experience in AL. In 2013 the property line of business had a large paid loss (over \$800K). This loss, associated with the Worldwide Aeros policy, was paid in error. This was taken into account when selections were made.

III. Assumptions/Limitations/Data Quality/Other

- A. <u>Assumptions</u> For purposes of this analysis, the loss ratio indications are based on a 3.5% trend assumption for GL, 4% for AL, and 0.0% for Property and APD. Division 66 factors in addition to program experience were the basis for the selected development patterns.
- B. <u>Limitations/Weakness</u> The projected PY 2014 loss ratio shown in Exhibit 1 of this report assumes that the YTD rate change achieved in 2014 will be consistent throughout the remainder of the year. To the extent that the annual rate change does not equal the YTD rate change, then the results of this report will vary. Besides that, there are no significant limitations/weaknesses with regards to this study outside of standard actuarial caveats that normally apply to projecting future losses. These include, but are not limited to, actual emerged actuarial parameters (LDF's, ILFs, ELR's, trend, etc.) not being in line with selected parameters; misscoding/inaccurate representation of the data relied upon in this analysis; and future regulatory/judicial changes affecting the frequency/severity of the results.

^{**} Assumes a tax rate of 35%

<u>Data Quality</u> - The data for all lines of business in this analysis is pulled from Sandbox which aggregates the data from CRS.

C. Other - Data from the previous PA was included to maximize the credibility of the analysis.

IV. Methodology

A review of several claim diagnostics shows no clear evidence of case reserve strengthening for this book of business (no consistent increase in average outstanding or decrease in paid to incurred ratios). In addition, a review of implied claim disposal rate does not show any clear evidence of claims closure rate changes.

Several methodologies have been used to project loss & legal expenses to ultimate. This includes the following: paid and incurred loss development and Bornhuetter-Ferguson methods (on a paid and incurred basis) all for losses uncapped and at varying capped levels. Frequency and severity is employed along with ultimate ILAE ratio selections to select a final PY 2014 ultimate loss ratio. The selected frequency and severities are somewhat consistent in comparison to the prior profit study.

The commissions and underwriting expenses are program specific. The RAP neutral ratio is calculated based program specific RAP profit loads. Rate need is based on a ratio of the ultimate ILAE ratio and the target ILAE ratio.

- V. Actuarial Next Steps We will continue to monitor these results through quarterly actual versus expected analyses.
- VI. Underwriting Action Plans Below is the response provided by Gary Scarborough form an email dated 08/28/2014

I see no issues with this analysis. The PA is seeing more aggressive inroads into the marketplace by their primary competitor, Travelers National Hanger Program. Their plan is to counter with better representation with mid-west and western producers as well as providing a more comprehensive product and better overall customer service.

Appendix - Methodology:

Please note that the analysis has seven sections:

Section I - General Liability

Section II - Auto Liability

Section III - Property

Section IV - Auto Physical Damage

Exhibit 1 - Summarizes PY 2014 ultimate ILAE ratios and PY 2014 rate need.

Exhibit 2 - PY reported incurred and paid loss and LAE ratios in triangle format.

Exhibit 3 - Indexing PY 2004 - 2014 ultimate ILAE (incurred + LAE) ratios to PY 2014 and selection of PY 2014 ultimate ILAE ratios.

Exhibit 4 - Frequency/Severity method used to calculate an indicated PY 2014 ultimate ILAE ratio

Exhibit 5 - Summarizes various methods (Exhibit 6a - Exhibit 8f) used to calculate ultimate + LAE & ratios for PY's 2004 - 2014.

- a) Policy Limits
- b) Capped at \$250,000
- c) Capped at \$100,000

Exhibit 6 - Bornhuetter-Ferguson methods

- a) Methodology
- b) A Priori Loss Ratios

Exhibit 7 - ILF selections

<u>Exhibit 8</u> - Loss development methods. In general, the selected age to age loss development factors are determined by giving weight to the overall Division 66 loss development factors as well as historical results of the program.

- a) Uncapped Incurred
- b) Incurred Capped at \$250,000
- c) Incurred Capped at \$100,000
- d) Uncapped Paid
- e) Paid Capped at \$250,000
- f) Paid Capped at \$100,000

<u>Exhibit 9</u> - Gross Written Premium developed to an ultimate PY basis. In general, the selected age to age premium development factors are determined by giving weight to the overall Division 66 premium development factors as well as the historical results of the program.

<u>Exhibit 10</u> - Total claim counts (excluding closed w/no-pay) developed to ultimate. In general, the selected age to age loss development factors are determined by giving weight to the overall Division 66 claim development factors as well as the historical results of the program.

<u>Exhibit 11</u> - Open claim count, closed with payment claim count, closed without payment claim count and total claim count development.

Exhibits 12 - Key diagnostic triangles.

a) Case Reserves per Open Claim

Paid & Legal per Closed With Payment

Paid per Closed With Payment

b) Paid & Legal to Incurred & Legal

Paid to Incurred

Closed W/Pay to Total Claim Count (Ex CWNP)

- c) Legal to Indemnity
- d) Total Claim Count to Total Policy Count

Average Account Size - Total - GWP to Total Policy Count

Average Account Size - New- GWP to New Policy Count

Average Account Size - Renewal - GWP to Renewal Policy Count

Exhibit 13 - Large loss listing (Incurred + LAE > \$100,000 and >\$250,000 for Excess).

Please let me know if you have any questions or comments regarding this study.

Division 66 - Programs Preferred Aviation - Profitability Study PYG @ 2014/2 (000's omitted)

Program Summary by LOB - PY 2014

			Before 2014
			Rate Change
			PY 2014
	PY 2014		Ultimate
LOB	GWP	Direct	ILAE Ratio
GL	313	3.0%	50.9%
AL	4,592	3.0%	53.0%
Property	10,038	2.9%	40.9%
APD	751	4.3%	52.2%
Total Casualty	4 005	2.0%	E2 0%
Total Casualty	4,905	3.0%	52.9%
Total Property	10,789	3.0%	41.7%
All Lines Combined	15,694	3.0%	45.2%

RAP Neutral	
	Before 2014
	Rate Change
Target	PY 2014
Ratio	Rate Need
63.2%	-18.6%
67.9%	-20.9%
57.8%	-27.8%
66.7%	-20.5%
67.6%	-20.8%
58.4%	-27.2%
61.3%	-25.0%

	After 2014
	Rate Change
PY 2014	PY 2014
Rate	Ultimate
Achieved	ILAE Ratio
0.2%	50.8%
-1.8%	54.0%
0.7%	40.7%
-8.5%	57.0%
-1.7%	53.8%
0.0%	41.8%
-0.5%	45.5%

Division 66 - Programs Preferred Aviation - Profitability Study PYG @ 2014/2 (000's omitted)

Program Summary by LOB - PY 2015

			After 2014
			Rate Change
			PY 2015
	PY 2014		Ultimate
LOB	GWP	Direct	ILAE Ratio
GL	313	3.0%	52.6%
AL	4,592	3.0%	56.2%
Property	10,038	2.9%	40.7%
APD	751	4.3%	57.0%
Total Casualty	4,905	3.0%	55.9%
Total Property	10,789	3.0%	41.8%
All Lines Combined	15,694	3.0%	46.2%

RAP Neutral	
	After 2014
	Rate Change
Target	PY 2015
Ratio	Rate Need
63.2%	-16.0%
67.9%	-16.5%
57.8%	-28.3%
66.7%	-13.7%
67.6%	-16.5%
58.4%	-27.1%
61.3%	-23.5%

Program Summary by LOB

Property - ex Cat Load & Reinsurance Charges

APD

				Selected	
		Reported	Reported	Ultimate	Ultimate
PY	GWP	ILAE	ILAE Ratio	ILAE	ILAE Ratio
2004	0	0	-	0	-
2005	0	0	-	0	-
2006	1	0	0.0%	0	0.0%
2007	66	0	0.0%	0	0.0%
2008	109	0	0.3%	0	0.0%
2009	132	14	10.7%	19	14.4%
2010	180	0	0.0%	28	15.5%
2011	215	1	0.5%	49	22.7%
2012	248	9	3.6%	84	33.9%
2013	268	0	0.2%	99	36.9%
2014	313	0	0.0%	150	48.0%

GL

			Selected	
	Reported	Reported	Ultimate	Ultimate
GWP	ILAE	ILAE Ratio	ILAE	ILAE Ratio
0	0	-	0	-
105	3	3.2%	3	2.8%
363	48	13.2%	51	14.0%
461	584	126.7%	582	126.4%
700	34	4.8%	39	5.5%
749	139	18.6%	148	19.8%
981	201	20.5%	238	24.2%
1,437	378	26.3%	560	39.0%
2,650	818	30.9%	1,363	51.4%
3,442	319	9.3%	1,539	44.7%
4,592	5	0.1%	2,434	53.0%

AL

				S	elected		
oor	ted	Re	ported	U	ltimate	Ult	imate
- 11	LAE	ILAE	Ratio		ILAE	ILAE	Ratio
	0		-		0		-
	39		8.4%		39		8.3%
	90		2.8%		90		2.8%
4	66		11.2%		466		11.2%
3	32		7.8%		332		7.8%
1,7	67		41.9%		1,767		41.9%
2,2	26		47.5%		2,230		47.6%
1,4	59		28.1%		1,460		28.2%
2,5	30		31.5%		2,580		32.1%
2,3	60		25.9%		3,290		36.1%
	12		0.1%		3,112		31.0%

			Selected	
	Reported	Reported	Ultimate	Ultimate
GWP	ILAE	ILAE Ratio	ILAE	ILAE Ratio
0	0	-	0	-
24	15	62.0%	14	60.8%
83	24	28.5%	24	28.3%
95	12	12.3%	12	12.3%
129	30	23.6%	30	23.5%
143	21	15.0%	22	15.3%
188	99	52.8%	100	53.0%
254	191	75.2%	191	75.3%
438	256	58.6%	258	58.9%
585	199	34.0%	230	39.4%
751	19	2.6%	421	56.0%

Total Casualty Total Property - ex Cat Load & Reinsurance All Lines Combined

				Selected	
		Reported	Reported	Ultimate	Ultimate
PY	GWP	ILAE	ILAE Ratio	ILAE	ILAE Ratio
2004	0	0	-	0	-
2005	105	3	3.2%	3	2.8%
2006	364	48	13.2%	51	14.0%
2007	527	584	110.7%	582	110.5%
2008	809	34	4.2%	39	4.8%
2009	881	153	17.4%	167	19.0%
2010	1,161	201	17.3%	266	22.9%
2011	1,653	379	22.9%	609	36.9%
2012	2,898	827	28.5%	1,447	49.9%
2013	3,710	319	8.6%	1,638	44.1%
2014	4,905	5	0.1%	2,584	52.7%
2015					

			Selected	
	Reported	Reported	Ultimate	Ultimate
GWP	ILAE	ILAE Ratio	ILAE	ILAE Ratio
0	0	-	0	
494	54	11.0%	53	10.8%
3,331	114	3.4%	114	3.49
4,270	477	11.2%	478	11.29
4,368	363	8.3%	362	8.3%
4,360	1,789	41.0%	1,789	41.0%
4,877	2,326	47.7%	2,330	47.8%
5,439	1,651	30.3%	1,651	30.49
8,473	2,787	32.9%	2,838	33.5%
9,692	2,559	26.4%	3,520	36.3%
10,789	31	0.3%	3,533	32.79

			Selected	
	Reported	Reported	Ultimate	Ultimate
GWP	ILAE	ILAE Ratio	ILAE	ILAE Ratio
0	0	-	0	-
599	58	9.6%	56	9.4%
3,695	162	4.4%	164	4.4%
4,797	1,061	22.1%	1,060	22.1%
5,177	397	7.7%	401	7.7%
5,241	1,942	37.1%	1,956	37.3%
6,039	2,526	41.8%	2,595	43.0%
7,092	2,029	28.6%	2,260	31.9%
11,372	3,613	31.8%	4,285	37.7%
13,402	2,878	21.5%	5,158	38.5%
15,694	36	0.2%	6,116	39.0%

2014

60.8%

28.3%

12.3%

23.5%

15.3%

53.0%

75.3%

58.9%

39.4% 56.0%

45.4% 8.3%

Ultimate

ILAE Ratio

Program Summary by LOB - Prior Profitability Study Indications

G	L

Property - ex Cat Load & Reinsurance Charges

		2013	2014		2013	2014
		Ultimate	Ultimate		Ultimate	Ultimate
PY	GWP	ILAE Ratio	ILAE Ratio	GWP	ILAE Ratio	ILAE Ratio
2004	0	-	-	0	-	-
2005	0	-	-	105	2.9%	2.8%
2006	1	0.0%	0.0%	363	14.0%	14.0%
2007	66	0.0%	0.0%	461	131.7%	126.4%
2008	109	3.7%	0.0%	700	5.6%	5.5%
2009	132	40.3%	14.4%	749	22.4%	19.8%
2010	180	24.9%	15.5%	981	29.4%	24.2%
2011	215	28.4%	22.7%	1,437	38.2%	39.0%
2012	248	38.8%	33.9%	2,650	65.2%	51.4%
2013	268	50.0%	36.9%	3,442	53.0%	44.7%
2014	313		48.0%	4,592		53.0%
		32.2%	22.9%		48.3%	41.5%
			-9.4%			-6.7%

	2013	2014		2013
	Ultimate	Ultimate		Ultimate
GWP	ILAE Ratio	ILAE Ratio	GWP	ILAE Ratio
0	-	-	0	-
470	10.0%	8.3%	24	20.8%
3,248	3.7%	2.8%	83	7.2%
4,175	12.5%	11.2%	95	7.4%
4,239	9.2%	7.8%	129	3.9%
4,216	43.3%	41.9%	143	4.9%
4,689	49.2%	47.6%	188	53.7%
5,185	31.3%	28.2%	254	76.0%
8,036	20.4%	32.1%	438	34.3%
9,107	24.0%	36.1%	585	42.0%
10,038		31.0%	751	
	24.6%	28.3%		37.1%
		3.7%		

Total Casualty

Total Property - ex Cat Load & Reinsurance

AL

All Lines Combined

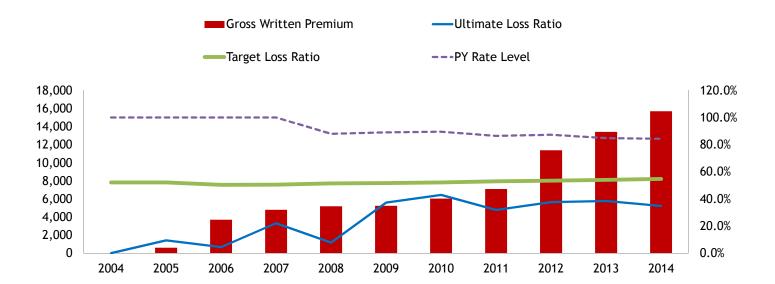
		2013	2014	
		Ultimate	Ultimate	
PY	GWP	ILAE Ratio	ILAE Ratio	
2004	0	-	-	
2005	105	2.9%	2.8%	
2006	364	14.0%	14.0%	
2007	527	115.1%	110.5%	
2008	809	5.3%	4.8%	
2009	881	25.1%	19.0%	
2010	1,161	28.7%	22.9%	
2011	1,653	36.9%	36.9%	
2012	2,898	63.0%	49.9%	
2013	3,710	52.8%	44.1%	
2014	4,905		52.7%	
		46.7%	39.7%	

	2013	2014
	Ultimate	Ultimate
GWP	ILAE Ratio	ILAE Ratio
0	-	-
494	10.5%	10.8%
3,331	3.8%	3.4%
4,270	12.3%	11.2%
4,368	9.0%	8.3%
4,360	42.0%	41.0%
4,877	49.4%	47.8%
5,439	33.3%	30.4%
8,473	21.2%	33.5%
9,692	25.1%	36.3%
10,789		32.7%
	25.1%	29.0%

	2013	2014
	Ultimate	Ultimate
GWP	ILAE Ratio	ILAE Ratio
0	-	
599	9.2%	9.4%
3,695	4.8%	4.4%
4,797	23.6%	22.1%
5,177	8.4%	7.7%
5,241	39.2%	37.3%
6,039	45.4%	43.0%
7,092	34.2%	31.9%
11,372	31.8%	37.7%
13,402	32.8%	38.5%
15,694		39.0%
	29.7%	31.2%

Total Program Summary

			-Loss Ratio		Combined	Ratio	Normalized			
PY	GWP	Reported	Ultimate	Target *	Ultimate	BECR	RAP Dollars	Rt Chg	Rt Lvl	Commission
2004	0	0.0%	0.0%	52.2%	51.1%	93.8%	0	0.0%	1.00	#DIV/0!
2005	599	9.6%	9.4%	52.2%	51.1%	93.8%	177	0.0%	1.00	0.23
2006	3,695	4.4%	4.4%	50.4%	47.4%	93.3%	1,182	0.0%	1.00	0.23
2007	4,797	22.1%	22.1%	50.5%	65.0%	93.4%	948	0.0%	1.00	0.23
2008	5,177	7.7%	7.7%	51.4%	50.0%	93.7%	1,568	-12.0%	0.88	0.23
2009	5,241	37.1%	37.3%	51.6%	79.4%	93.7%	520	1.2%	0.89	0.23
2010	6,039	41.8%	43.0%	52.1%	84.7%	93.9%	382	0.5%	0.90	0.23
2011	7,092	28.6%	31.9%	53.0%	73.0%	94.1%	1,033	-3.5%	0.86	0.23
2012	11,372	31.8%	37.7%	53.5%	78.4%	94.2%	1,238	1.0%	0.87	0.23
2013	13,402	21.5%	38.5%	54.0%	78.9%	94.3%	1,430	-2.8%	0.85	0.22
2014	15,694	0.2%	34.8%	54.7%	74.6%	94.5%	2,151	-0.5%	0.84	0.22
Total	73,108	20.1%	32.0%				10,629			



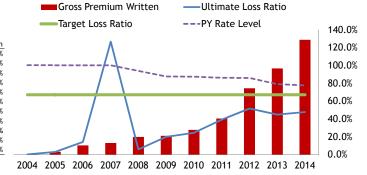
^{*} Target Ratio = 1 - (Expense Ratio) - (AAL) - (XOL) - (Corporate Cat Reinsurance) - (ULE) - (Claim Fees) - (Risk Load) * Ultimate Loss Ratios <u>exclude</u> modeled cats, ULE, non-machine claims fees and the impact of XOL/corporate cat reinsurance

120.0% 100.0% 80.0% 60.0% 40.0% 20.0% 0.0%

Program Summary by LOB - Casualty Lines

GL										
		L	oss Ratio		Combined	Ratio	Normalized			
PY	GWP	Reported	Ultimate	Target *	Ultimate	BECR	RAP Dollars	Rt Chg	Rt Lvl	Commission
2004	0	0.0%	0.0%	60.4%	37.8%	98.2%	0	0.0%	1.00	24.0%
2005	0	0.0%	0.0%	60.4%	37.8%	98.2%	0	0.0%	1.00	24.0%
2006	1	0.0%	0.0%	60.4%	37.8%	98.2%	1	0.0%	1.00	24.0%
2007	66	0.0%	0.0%	60.4%	37.8%	98.2%	27	0.0%	1.00	24.0%
2008	109	0.3%	0.0%	60.4%	37.8%	98.2%	43	-4.7%	0.95	24.0%
2009	132	10.7%	14.4%	60.4%	52.2%	98.2%	40	0.6%	0.96	24.0%
2010	180	0.0%	15.5%	60.4%	53.3%	98.2%	54	4.3%	1.00	24.0%
2011	215	0.5%	22.7%	60.4%	60.5%	98.2%	54	2.1%	1.02	24.0%
2012	248	3.6%	33.9%	60.4%	71.6%	98.2%	44	-1.2%	1.01	24.0%
2013	268	0.2%	36.9%	60.4%	74.7%	98.2%	42	-0.2%	1.01	24.0%
2014	313	0.0%	39.6%	60.4%	77.4%	98.2%	43	0.2%	1.01	24.0%
Total	1,533	1.6%	26.3%				346			

AL										
		L	oss Ratio		Combined	Ratio	Normalized			
PY	GWP	Reported	Ultimate	Target *	Ultimate	BECR	RAP Dollars	Rt Chg	Rt Lvl	Commission
2004	0	0.0%	0.0%	66.9%	31.0%	97.8%	0	0.0%	1.00	19.0%
2005	105	3.2%	2.8%	66.9%	33.8%	97.8%	45	0.0%	1.00	19.0%
2006	363	13.2%	14.0%	66.9%	45.0%	97.8%	127	0.0%	1.00	19.0%
2007	461	126.7%	126.4%	66.9%	157.4%	97.8%	-182	0.0%	1.00	19.0%
2008	700	4.8%	5.5%	66.9%	36.5%	97.8%	285	-6.3%	0.94	19.0%
2009	749	18.6%	19.8%	66.9%	50.7%	97.8%	234	-6.7%	0.87	19.0%
2010	981	20.5%	24.2%	66.9%	55.2%	97.8%	278	-0.2%	0.87	19.0%
2011	1,437	26.3%	39.0%	66.9%	69.9%	97.8%	266	-1.4%	0.86	19.0%
2012	2,650	30.9%	51.4%	66.9%	82.4%	97.8%	272	-0.2%	0.86	19.0%
2013	3,442	9.3%	44.7%	66.9%	75.7%	97.8%	507	-8.1%	0.79	19.0%
2014	4,592	0.1%	47.6%	66.9%	78.5%	97.8%	589	-1.8%	0.77	19.0%
Total	15,481	16.3%	43.3%				2,421			



2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014

--- Ultimate Loss Ratio

---PY Rate Level

Gross Premium Written

-Target Loss Ratio

^{*} Target Ratio = 1 - (Expense Ratio) - (AAL) - (XOL) - (Corporate Cat Reinsurance) - (ULE) - (Claim Fees) - (Risk Load)
* Ultimate Loss Ratios <u>exclude</u> modeled cats, ULE, non-machine claims fees and the impact of XOL/corporate cat reinsurance

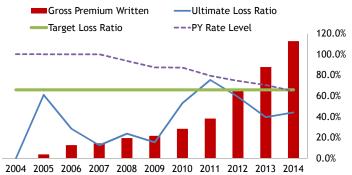
Program Summary by LOB - Property Lines

Property										
		Lo	oss Ratio		Combined	Ratio	Normalized			
PY	GWP	Reported	Ultimate	Target *	Ultimate	BECR	RAP Dollars	Rt Chg	Rt Lvl	Commission
2004	0	0.0%	0.0%	48.2%	44.6%	92.7%	0	0.0%	1.00	24.0%
2005	470	8.4%	8.3%	48.2%	52.9%	92.7%	131	0.0%	1.00	24.0%
2006	3,248	2.8%	2.8%	48.2%	47.3%	92.7%	1,033	0.0%	1.00	24.0%
2007	4,175	11.2%	11.2%	48.2%	55.7%	92.7%	1,083	0.0%	1.00	24.0%
2008	4,239	7.8%	7.8%	48.2%	52.4%	92.7%	1,198	-13.2%	0.87	24.0%
2009	4,216	41.9%	41.9%	48.2%	86.5%	92.7%	185	3.1%	0.90	24.0%
2010	4,689	47.5%	47.6%	48.2%	92.1%	92.7%	20	0.5%	0.90	24.0%
2011	5,185	28.1%	28.2%	48.2%	72.7%	92.7%	727	-4.0%	0.86	24.0%
2012	8,036	31.5%	32.1%	48.2%	76.7%	92.7%	904	1.9%	0.88	24.0%
2013	9,107	25.9%	36.1%	48.2%	80.7%	92.7%	768	-0.6%	0.88	24.0%
2014	10,038	0.1%	28.1%	48.2%	72.7%	92.7%	1,412	0.7%	0.88	24.0%
Total	53,404	21.1%	28.2%				7,463			

Target Loss RatioPY Rate Level	120.0%
	100.0%
	80.0%
_	60.0%
	40.0%
	20.0%
2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014	0.0%
200. 2003 2000 2007 2000 2017 2012 2013 2014	

Gross Premium Written — Ultimate Loss Ratio

APD										
		L	oss Ratio		Combined	Ratio	Normalized			
PY	GWP	Reported	Ultimate	Target *	Ultimate	BECR	RAP Dollars	Rt Chg	Rt Lvl	Commission
2004	0	0.0%	0.0%	65.7%	31.5%	97.3%	0	0.0%	1.00	19.0%
2005	24	62.0%	60.8%	65.7%	92.3%	97.3%	1	0.0%	1.00	19.0%
2006	83	28.5%	28.3%	65.7%	59.9%	97.3%	21	0.0%	1.00	19.0%
2007	95	12.3%	12.3%	65.7%	43.8%	97.3%	34	0.0%	1.00	19.0%
2008	129	23.6%	23.5%	65.7%	55.1%	97.3%	36	-6.3%	0.94	19.0%
2009	143	15.0%	15.3%	65.7%	46.8%	97.3%	48	-6.7%	0.87	19.0%
2010	188	52.8%	53.0%	65.7%	84.5%	97.3%	16	-0.2%	0.87	19.0%
2011	254	75.2%	75.3%	65.7%	106.8%	97.3%	-16	-9.0%	0.79	19.0%
2012	438	58.6%	58.9%	65.7%	90.4%	97.3%	20	-6.3%	0.74	19.0%
2013	585	34.0%	39.4%	65.7%	70.9%	97.3%	103	-5.3%	0.70	19.0%
2014	751	2.6%	44.1%	65.7%	75.6%	97.3%	109	-8.5%	0.64	19.0%
Total	2,690	32.2%	45.1%				372			



^{*} Target Ratio = 1 - (Expense Ratio) - (AAL) - (XOL) - (Corporate Cat Reinsurance) - (ULE) - (Claim Fees) - (Risk Load)
* Ultimate Loss Ratios <u>exclude</u> modeled cats, ULE, non-machine claims fees and the impact of XOL/corporate cat reinsurance

GL

Rate Need Indications

			Before 2014			After 2014		
			Rate Change	Before 2014		Rate Change		
	Target		PY 2014	Rate Change	PY 2014	PY 2014	PY 2015	
	Combined	Target	Ultimate	PY 2014	Rate	Ultimate	Ultimate	PY 2015
	Ratio	ILAE Ratio	ILAE Ratio	Rate Need	Achieved	ILAE Ratio	ILAE Ratio	Rate Need
RAP Neutral:	98.2%	63.2%	50.9%	-18.6%	0.2%	50.8%	52.6%	-16.0%

35.0%

Expense Ratio calculated as follows:	
Commission:	24.0%
Prem Tax:	3.2%
Other Acquisition Fees:	0.7%
Direct Expense:	3.0%
Indirect Expense:	4.1%

GL

Reported Incurred Loss & LAE Ratios

PY	GWP	6	18	30	42	54	66	78	90	102	114	126	@ 2014/2
2004	0	-	-	-	-	-	-	-	-	-	-	-	
2005	0	-	-	-	-	-	-	-	-	-	-		-
2006	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%
2007	66	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%
2008	109	0.0%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%					0.3%
2009	132	0.0%	9.1%	10.3%	10.7%	10.7%	10.7%						10.7%
2010	180	0.0%	0.0%	0.0%	0.0%	0.0%							0.0%
2011	215	2.3%	0.0%	4.6%	0.5%								0.5%
2012	248	0.0%	0.0%	3.6%									3.6%
2013	268	0.1%	0.2%										0.2%
2014	313	0.0%											0.0%

Reported Paid Loss & LAE Ratios

PY	GWP	6	18	30	42	54	66	78	90	102	114	126	@ 2014/2
2004	0	-	-	-	-	-	-	-	-	-	-	-	
2005	0	-	-	-	-	-	-	-	-	-	-		-
2006	1	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			0.0%
2007	66	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				0.0%
2008	109	0.0%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%					0.3%
2009	132	0.0%	9.0%	10.3%	10.7%	10.7%	10.7%						10.7%
2010	180	0.0%	0.0%	0.0%	0.0%	0.0%							0.0%
2011	215	0.0%	0.0%	0.0%	0.5%								0.5%
2012	248	0.0%	0.0%	3.6%									3.6%
2013	268	0.1%	0.2%										0.2%
2014	313	0.0%											0.0%

GL

Indexing - PY 2014 Ultimate Loss & LAE Selection

PY	GWP 0	Annual PY Rate Chg	Cumulative	On-Level
PY		Rate Chg		OII LCVC
	0	nace eng	PY Rate Chg	GWP
2004	U	0.0%	1.000	-
2005	0	0.0%	1.000	-
2006	1	0.0%	1.000	1
2007	66	0.0%	1.000	67
2008	109	-4.7%	0.953	115
2009	132	0.6%	0.959	139
2010	180	4.3%	1.000	182
2011	215	2.1%	1.021	213
2012	248	-1.2%	1.009	248
2013	268	-0.2%	1.007	269
2014	313	0.2%	1.009	313
			All Yr Wtd	ex 2014:
			Last 7 Wtd	ex 2014:
			Last 5 Wtd	ex 2014:
			Last 3 Wtd	ex 2014:
			Selected L	Jltimate:
				ILF:
			Policy Limits L	Iltimate:

Policy Limits		
	3.5%	On-Level
Ultimate	Trend to	Ultimate
ILAE Ratio	PY 2014	ILAE Ratio
-	1.411	-
-	1.363	-
0.0%	1.317	0.0%
0.0%	1.272	0.0%
0.0%	1.229	0.0%
14.4%	1.188	16.3%
15.5%	1.148	17.6%
22.7%	1.109	25.5%
33.9%	1.071	36.3%
36.9%	1.035	38.1%
39.6%	1.000	39.6%
		24.4%
		24.5%
		28.7%
		33.8%
		38.0%
		1.00
		38.0%
Weight:		3%

Capped @ 250k			
	3.3%	On-Level	
Ultimate	Trend to	Ultimate	
ILAE Ratio	PY 2014	ILAE Ratio	
-	1.377	-	
-	1.334	-	
0.0%	1.292	-	
0.0%	1.251	-	
0.0%	1.212	-	
13.7%	1.173	15.2%	
9.4%	1.136	10.6%	
14.9%	1.101	16.5%	
23.8%	1.066	25.3%	
26.9%	1.033	27.7%	
29.7%	1.000	29.7%	
		17.3%	
		17.3%	
		20.3%	
		23.6%	
		28.0%	
	_	1.31	
		36.8%	
		48%	

Capped @ 100k		
	3.0%	On-Level
Ultimate	Trend to	Ultimate
ILAE Ratio	PY 2014	ILAE Ratio
-	1.344	-
-	1.305	-
0.0%	1.267	-
0.0%	1.230	-
0.0%	1.194	-
12.9%	1.159	14.2%
6.1%	1.126	6.8%
10.7%	1.093	11.8%
18.9%	1.061	20.1%
21.3%	1.030	21.9%
24.6%	1.000	24.6%
		13.4%
		13.5%
		15.8%
		18.3%
		22.0%
		1.62
		3F 70/
		35.7%
		35.7% 48%

Frequency/Severity Indication:

Weighted Average: 36.3% PY 2014 Selected: 48.0%

> Adjustment: 0.0%

> > PY 2014: 48.0%

2.8% ULE: Claims Fees: 0.0% 50.8%

PY 2014 Ultimate ILAE Ratio:

ΑL

Rate Need Indications

			Before 2014			After 2014		
			Rate Change	Before 2014		Rate Change		
	Target		PY 2014	Rate Change	PY 2014	PY 2014	PY 2015	
	Combined	Target	Ultimate	PY 2014	Rate	Ultimate	Ultimate	PY 2015
	Ratio	ILAE Ratio	ILAE Ratio	Rate Need	Achieved	ILAE Ratio	ILAE Ratio	Rate Need
RAP Neutral:	97.8%	67.9%	53.0%	-20.9%	-1.8%	54.0%	56.2%	-16.5%

Commission:	19.0%
Prem Tax:	3.2%
Other Acquisition Fees:	0.7%
Direct Expense:	3.0%
Indirect Expense:	4.1%
	30.0%

ΑL

Reported Incurred Loss & LAE Ratios

PY	GWP	6	18	30	42	54	66	78	90	102	114	126	@ 2014/2
2004	0	-	-	-	-	-	-	-	-	-	-	-	
2005	105	0.0%	0.0%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%		3.2%
2006	363	0.0%	15.0%	13.2%	13.2%	13.2%	13.2%	13.2%	13.2%	13.2%			13.2%
2007	461	1.3%	27.2%	54.9%	60.8%	85.2%	132.3%	131.3%	126.7%				126.7%
2008	700	1.1%	5.1%	4.9%	4.9%	4.8%	4.8%	4.8%					4.8%
2009	749	1.3%	15.5%	15.7%	16.3%	18.5%	18.6%						18.6%
2010	981	0.3%	9.1%	14.0%	19.0%	20.5%							20.5%
2011	1,437	1.3%	10.1%	14.7%	26.3%								26.3%
2012	2,650	0.4%	28.3%	30.9%									30.9%
2013	3,442	0.1%	9.3%										9.3%
2014	4,592	0.1%											0.1%

Reported Paid Loss & LAE Ratios

PY	GWP	6	18	30	42	54	66	78	90	102	114	126	@ 2014/2
2004	0	-	-	-	-	-	-	-	-	-	-	-	
2005	105	0.0%	0.0%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%		3.2%
2006	363	0.0%	10.3%	13.2%	13.2%	13.2%	13.2%	13.2%	13.2%	13.2%			13.2%
2007	461	1.3%	21.8%	28.7%	30.6%	35.8%	83.5%	118.5%	123.2%				123.2%
2008	700	1.1%	4.5%	4.9%	4.9%	4.8%	4.8%	4.8%					4.8%
2009	749	0.1%	7.4%	11.0%	16.3%	18.5%	18.6%						18.6%
2010	981	0.1%	7.0%	11.5%	19.0%	19.7%							19.7%
2011	1,437	0.8%	6.8%	10.9%	25.4%								25.4%
2012	2,650	0.3%	27.1%	30.3%									30.3%
2013	3,442	0.0%	6.7%										6.7%
2014	4,592	0.1%											0.1%

Division 66 - Programs Preferred Aviation - Profitability Study PYG @ 2014/2 (000's omitted)

ΑL Indexing - PY 2014 Ultimate Loss & LAE Selection

		Annual PY	Cumulative	On-Level
PY	GWP	Rate Chg	PY Rate Chg	GWP
2004	0	0.0%	1.000	-
2005	105	0.0%	1.000	82
2006	363	0.0%	1.000	281
2007	461	0.0%	1.000	357
2008	700	-6.3%	0.937	579
2009	749	-6.7%	0.874	664
2010	981	-0.2%	0.872	871
2011	1,437	-1.4%	0.860	1,294
2012	2,650	-0.2%	0.858	2,391
2013	3,442	-8.1%	0.788	3,381
2014	4,592	-1.8%	0.774	4,592
			All Yr Wtd	ex 2014:
			Last 7 Wtd	ex 2014:
			Last 5 Wtd	ex 2014:
			Last 3 Wtd	ex 2014:
			Selected l	
				ILF:
			Policy Limits l	Jltimate:

Policy Limits		
	4.0%	On-Level
Ultimate	Trend to	Ultimate
ILAE Ratio	PY 2014	ILAE Ratio
-	1.480	-
2.8%	1.423	5.2%
14.0%	1.369	24.8%
126.4%	1.316	214.9%
5.5%	1.265	8.5%
19.8%	1.217	27.1%
24.2%	1.170	31.9%
39.0%	1.125	48.7%
51.4%	1.082	61.7%
44.7%	1.040	47.3%
47.6%	1.000	47.6%
		51.0%
		52.2%
		48.4%
		52.4%
	Г	51.0%
		1.00
		51.0%
Weight:		31%

3.5%	On-Level	
Trend to	Ultimate	
PY 2014	ILAE Ratio	_
1.411	-	
1.363	5.0%	
1.317	23.9%	
1.272	207.8%	
1.229	8.3%	
1.188	26.5%	
1.148	30.0%	
1.109	43.7%	
1.071	40.9%	
1.035	37.8%	
1.000	40.8%	
	41.6%	
	42.5%	
	37.9%	
	39.9%	
	41.0%	
_	1.38	
	56.6%	
	34%	-
	Trend to PY 2014 1.411 1.363 1.317 1.272 1.229 1.188 1.148 1.109 1.071 1.035	Trend to PY 2014 ILAE Ratio 1.411 - 1.363 5.0% 1.317 23.9% 1.272 207.8% 1.229 8.3% 1.188 26.5% 1.148 30.0% 1.109 43.7% 1.071 40.9% 1.035 37.8% 1.000 40.8% 41.6% 42.5% 37.9% 39.9% 41.0% 1.38 56.6%

Capped @ 100k		
	3.0%	On-Level
Ultimate	Trend to	Ultimate
ILAE Ratio	PY 2014	ILAE Ratio
-	1.344	- ID ID IT IT IT
2.8%	1.305	4.8%
14.0%	1.267	22.9%
85.2%	1.230	135.3%
5.5%	1.194	8.0%
19.8%	1.159	25.9%
21.2%	1.126	26.8%
27.1%	1.093	32.9%
22.0%	1.061	25.9%
27.1%	1.030	28.4%
29.4%	1.000	29.4%
27170	1.000	27. 1/0
		30.4%
		30.8%
		28.0%
		28.4%
		30.0%
	<u></u>	1.74
		52.1%
		34%
/C	11	F2 F0

Frequency/Severity Indication: 52.5%

Weighted Average: 53.3% PY 2014 Selected: 53.0%

> Adjustment: 0.0%

> > PY 2014: 53.0%

1.0% ULE: Claims Fees: 0.0% 54.0%

PY 2014 Ultimate ILAE Ratio:

Division 66 - Programs Preferred Aviation - Profitability Study PYG @ 2014/2 (000's omitted)

AL

Large Losses - Incurred + Legal > 100k

PY	DSP	Policy #	Case #	DOL	Insured	Ind Paid	Ind OS	Legal	I+Legal	Acc State	Description
2007	Florida	4078304	6337	6/22/200	7 Cambata Aviation I	174	-	63	237	Florida	Alvie Barron Rear Ended ANN Linehans C
2007	New York	3783667	6148	10/5/200	8 Panorama Flight SE	59	16	87	162	New York	OV States While Proceeding Straight SB
2010	Montana	6143485	6450	1/5/201	1 Montana Aero, Inc.	90	-	15	104	Montana	Insured Vehicle Turning AT Green Light
2011	Louisiana	9349295	7904	4/23/201	2 Southern Helicopte	134	-	19	152	Louisiana	IV Rearended CV CV Pushed Into Another
2012	Louisiana	6268982	9941	6/11/201	2 Richard Flying Ser	500	-	64	564	Louisiana	Insured Turned Left In Front To The C

Property

Rate Need Indications

			Before 2014			After 2014		
			Rate Change	Before 2014		Rate Change		
	Target		PY 2014	Rate Change	PY 2014	PY 2014	PY 2015	
	Combined	Target	Ultimate	PY 2014	Rate	Ultimate	Ultimate	PY 2015
	Ratio	ILAE Ratio	ILAE Ratio	Rate Need	Achieved	ILAE Ratio	ILAE Ratio	Rate Need
RAP Neutral:	92.7%	57.8%	40.9%	-27.8%	0.7%	40.7%	40.7%	-28.3%

Expense Ratio calculated as follows:	
Commission:	24.0%
Prem Tax:	3.2%
Other Acquisition Fees:	0.7%
Reinsurance:	0.0%
Direct Expense:	2.9%
Indirect Expense:	4.1%
	34.9%

Property

Reported Incurred Loss & LAE Ratios

PY	GWP	6	18	30	42	54	66	78	90	102	114	126	@ 2014/2
2004	0	-	-	-	-	-	-	-	-	-	-	-	
2005	470	0.0%	1.7%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%		8.4%
2006	3,248	0.0%	2.4%	2.8%	2.8%	2.8%	2.8%	2.8%	2.8%	2.8%			2.8%
2007	4,175	1.2%	8.5%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%				11.2%
2008	4,239	0.4%	5.6%	6.8%	7.9%	8.0%	8.0%	7.8%					7.8%
2009	4,216	0.2%	33.9%	42.0%	46.0%	41.8%	41.9%						41.9%
2010	4,689	1.2%	24.0%	39.5%	47.5%	47.5%							47.5%
2011	5,185	3.1%	11.3%	28.3%	28.1%								28.1%
2012	8,036	0.0%	24.2%	31.5%									31.5%
2013	9,107	2.8%	25.9 %										25.9%
2014	10,038	0.1%											0.1%

Reported Incurred Loss & LAE Ratios - Including Modeled Cats

PY	GWP	6	18	30	42	54	66	78	90	102	114	126	@ 2014/2
2004	0	-	-	-	-	-	-	-	-	-	-		
2005	470	0.0%	1.7%	8.1%	8.1%	8.1%	8.1%	8.1%	8.1%	8.1%	8.1%		8.1%
2006	3,248	0.0%	2.4%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%			2.7%
2007	4,175	1.2%	8.6%	12.0%	11.9%	11.9%	11.9%	11.9%	11.9%				11.9%
2008	4,239	0.4%	51.5%	56.7%	63.3%	63.4%	63.4%	63.3%					63.3%
2009	4,216	0.2%	33.9%	41.8%	45.7%	41.5%	41.5%						41.5%
2010	4,689	1.2%	24.2%	39.7%	47.8%	47.9%							47.9%
2011	5,185	3.1%	11.3%	40.0%	42.2%								42.2%
2012	8,036	0.0%	27.3%	33.8%									33.8%
2013	9,107	2.8%	25.0%										25.0%
2014	10,038	0.1%											0.1%

Division 66 - Programs Preferred Aviation - Profitability Study PYG @ 2014/2 (000's omitted)

Property

Indexing - PY 2014 Ultimate Loss & LAE Selection

		Annual PY	Cumulative	On-Level
PY	GWP	Rate Chg	PY Rate Chg	GWP
2004	0	0.0%	1.000	-
2005	470	0.0%	1.000	414
2006	3,248	0.0%	1.000	2,862
2007	4,175	0.0%	1.000	3,678
2008	4,239	-13.2%	0.868	4,303
2009	4,216	3.1%	0.895	4,150
2010	4,689	0.5%	0.900	4,592
2011	5,185	-4.0%	0.864	5,288
2012	8,036	1.9%	0.880	8,044
2013	9,107	-0.6%	0.875	9,169
2014	10,038	0.7%	0.881	10,038
			All Yr Wtd	ex 2014:
			Last 7 Wtd	ex 2014:
			Last 5 Wtd	ex 2014:
			Last 3 Wtd	ex 2014:
			Selected L	Iltimate:

ILF:

Policy Limits Ultimate:

Policy Limits			
	0.0%	On-Level	
Ultimate	Trend to	Ultimate	
ILAE Ratio	PY 2014	ILAE Ratio	
-	1.000	-	
8.3%	1.000	9.4%	
2.8%	1.000	3.1%	
11.2%	1.000	12.7%	
7.8%	1.000	7.7%	
41.9%	1.000	42.6%	
47.6%	1.000	48.6%	
28.2%	1.000	27.6%	
32.1%	1.000	32.1%	
36.1%	1.000	35.9%	
28.1%	1.000	28.1%	
		28.8%	
		30.9%	
		36.3%	
		32.6%	
		31.0%	
		1.00	
		31.0%	
Weight:		50%	

Capped @ 1M			
	2 201		
	0.0%	On-Level	
Ultimate	Trend to	Ultimate	
ILAE Ratio	PY Rate Chg	ILAE Ratio	
-	1.000	-	
8.3%	1.000	9.4%	
2.8%	1.000	3.1%	
11.2%	1.000	12.7%	
7.8%	1.000	7.7%	
41.9%	1.000	42.6%	
47.6%	1.000	48.6%	
28.2%	1.000	27.6%	
32.0%	1.000	31.9%	
34.6%	1.000	34.4%	
25.3%	1.000	25.3%	
		28.5%	
		30.5%	
		35.8%	
		31.9%	
	Г	20.0%	
		30.0%	
		1.11	
		33.2%	
		17%	

Capped @ 250k		
	0.0%	On-Level
Ultimate	Trend to	Ultimate
ILAE Ratio	PY 2014	ILAE Ratio
	1.000	-
8.3%	1.000	9.4%
2.8%	1.000	3.1%
11.2%	1.000	12.7%
7.8%	1.000	7.7%
30.5%	1.000	30.9%
26.9%	1.000	27.4%
23.7%	1.000	23.3%
22.3%	1.000	22.3%
23.9%	1.000	23.8%
19.0%	1.000	19.0%
		20.4%
		21.8%
		24.8%
		23.1%
	Г	22.0%
	_	1.43
		31.4%
		17%

Capped @ 100k		
	0.0%	On-Level
Ultimate	Trend to	Ultimate
ILAE Ratio	PY 2014	ILAE Ratio
-	1.000	-
8.3%	1.000	9.4%
2.8%	1.000	3.1%
11.1%	1.000	12.6%
7.8%	1.000	7.7%
19.0%	1.000	19.3%
17.3%	1.000	17.6%
20.3%	1.000	19.9%
15.9%	1.000	15.9%
16.6%	1.000	16.5%
14.1%	1.000	14.1%
		15.0%
		15.9%
		17.5%
		17.1%
	-	
		16.0%
		1.90
		30.4%
		17%

 Frequency/Severity Indication:
 30.0%

 Weighted Average:
 31.3%

 PY 2014 Selected:
 31.0%

Adjustment: 0.0%

PY 2014: 31.0%

All Year Avg Empirical Cat Load: 6.0%
Program Specific AAL Cat Load: 6.7%
Selected Cat Load: 6.7%

 Selected Cat Load:
 6.7%

 Corporate Cat Charge:
 0.0%

 XOL Loss Cost:
 1.1%

 Indicated XOL Cost:
 0.0%

ULE: 1.9% Claims Fees: 0.0%

40.7%

PY 2014 Ultimate ILAE Ratio Including AAL Cat Load and Cost of Reinsurance:

Division 66 - Programs Preferred Aviation - Profitability Study PYG @ 2014/2 (000's omitted)

Property

<u>Large Losses - Incurred + LAE > 100k</u>

PY	DSP	Cat #	Policy #	Case #	DOL Insured	Ind Paid	Ind OS	LAE	ILAE	Acc State	Description
2007	1-1-137		9272941	2594	3/4/2008 Aerial Viewpoint H	101	-	2	103	Texas	Changing OUT The Filter ON ONE Of The
2008	1-1-137	6008	9271776	2367	9/13/2008 American JET Inter	1,943	-	82	2,026	Texas	Hurricane IKE
2008	1-1-137	6008	9274039	2558	9/14/2008 Moraine AIR Park,	181	-	14	195	Ohio	Strong Winds Dmgd Bldg And Grounds HUR
2009	1-1-137		3234347	5830	12/6/2009 DEL Martin	520	-	14	534	Texas	Aircraft Hangar Total OS DUE To Fire R
2009	1-1-137		2849769	1109	3/25/2010 ONE Stop Aviation,	408	-	46	454	California	Fire Started In Shop
2009	1-1-137		4414456	3732	6/1/2009 S.L. Horizons, Llc	150	-	60	210	Texas	Bldg 1 Roof Heavily Dmgd By Hail Deali
2009	1-1-137		2849418	1654	4/5/2010 Eric Richardson	158	-	20	177	Michigan	Windstorm Damage To Hangar Insured SUS
2010	1-1-216	4611	9710790	1468	4/24/2011 Abilene Aero, Inc.	723	-	22	745	Texas	Large Hail Damage To Insured Buildings
2010	1-1-137		6478524	1548	10/1/2010 Skytech Aviation I	605	-	131	736	Florida	Sprinkler Damage To Building And BBP
2010	1-1-137		2851279	2989	4/21/2010 Johnson County Avi	249	-	16	265	Tennessee	Theft Of 2 Trailers Containing Helicop
2011	1-1-137	9012	9657926	4584	10/29/2012 SKY Manor Airport	666	-	41	708	New Jersey	CAT Hurricane Sandy-ONE Building Down
2011	1-1-137		6142831	6211	11/24/2012 Newone Hangars, LL	473	-	13	486	Texas	Fire In Hangar
2011	1-1-137		2849252	2960	9/1/2012 AG AIR Maintenance	125	-	3	128	Arkansas	Tornado Occured Damaging Insureds Buil
2012	1-1-137	9313	9274792	9279	3/18/2013 Mark And Yuri Pyan	404	146	31	581	Mississippi	Heavy Hail Damage To Building DUE To S
2012	1-1-137		9271786	8831	12/31/2012 Freeman Holdings,	360	135	34	529	California	Insured Suffered Wind Damage To The RO
2012	1-1-216		6481898	7126	12/20/2012 Erickson AIR-Crane	357	-	54	411	Oregon	Smoke And Water Damage DUE To Fire.
2012	1-1-137		8995085	131	6/19/2012 Key Lime AIR Inc.,	132	-	14	146	Colorado	Hail Damage To The Roof
2013	1-1-137		4062157	3478	10/7/2013 Worldwide Aeros Co	840	1	27	868	California	The Roof Of The Facility Caved In And
2013	1-1-137		9907232	8265	12/15/2013 Hospers Family Tru	264	-	16	280	Texas	Natural Perils - Ice ICE Damaged AC
2013	1-1-137	2913	9906555	6326	11/17/2013 Dean Baldwin Paint	256	-	5	261	Indiana	Natural Perils - Tornado - Airplane HA
2013	1-1-137		8997484	4571	4/25/2013 Carolina Avionics	202	-	7	209	North Carolina	Battery Catch Fire In The Office.
2013	1-1-137		6142044	9631	4/7/2014 JON D. Tanner & TI	-	106	3	109	Alaska	Fire - Mechanical Breakdown (Non Elect

Division 66 - Programs Preferred Aviation - Profitability Study PYG @ 2014/2 (000's omitted)

APD

Rate Need Indications

			Before 2014 Rate Change	Before 2014		After 2014 Rate Change		
	Target		PY 2014	Rate Change	PY 2014	PY 2014	PY 2015	
	Combined	Target	Ultimate	PY 2014	Rate	Ultimate	Ultimate	PY 2015
	Ratio	ILAE Ratio	ILAE Ratio	Rate Need	Achieved	ILAE Ratio	ILAE Ratio	Rate Need
RAP Neutral:	97.3%	66.7%	52.2%	-20.5%	-8.5%	57.0%	57.0%	-13.7%

30.5%

Expense Ratio calculated as follows:	
Commission:	19.0%
Prem Tax:	3.2%
Other Acquisition Fees:	0.7%
Direct Expense:	4.3%
Indirect Expense:	3.4%

APD

Reported Incurred Loss & LAE Ratios

PY	GWP	6	18	30	42	54	66	78	90	102	114	126	@ 2014/2
2004	0	-	-	-	-	-	-	-	-	-	-	-	
2005	24	0.0%	64.1%	68.7%	62.0%	62.0%	62.0%	62.0%	62.0%	62.0%	62.0%		62.0%
2006	83	0.0%	29.5%	28.5%	28.5%	28.5%	28.5%	28.5%	28.5%	28.5%			28.5%
2007	95	1.3%	9.1%	12.3%	12.3%	12.3%	12.3%	12.3%	12.3%				12.3%
2008	129	0.0%	22.4%	23.6%	23.6%	23.6%	23.6%	23.6%					23.6%
2009	143	0.3%	20.5%	15.0%	15.0%	15.0%	15.0%						15.0%
2010	188	3.1%	62.7%	55.4 %	52.8%	52.8 %							52.8%
2011	254	2.2%	70.6%	75.2 %	75.2 %								75.2 %
2012	438	0.8%	33.1%	58.6%									58.6%
2013	585	2.6%	34.0%										34.0%
2014	751	2.6%											2.6%

APD

Indexing - PY 2014 Ultimate Loss & LAE Selection

		Annual PY	Cumulative	On-Level
PY	GWP	Rate Chg	PY Rate Chg	GWP
2004	0	0.0%	1.000	-
2005	24	0.0%	1.000	15
2006	83	0.0%	1.000	54
2007	95	0.0%	1.000	61
2008	129	-6.3%	0.937	88
2009	143	-6.7%	0.874	106
2010	188	-0.2%	0.872	139
2011	254	-9.0%	0.793	206
2012	438	-6.3%	0.744	379
2013	585	-5.3%	0.704	535
2014	751	-8.5%	0.644	751
			All Yr Wtd	ex 2014:
			Last 7 Wtd	ex 2014:
			Last 5 Wtd	ex 2014:
			Last 3 Wtd	ex 2014:
		Freque	ncy/Severity In	dication:

Policy Limits		
	0.0%	On-Level
Ultimate	Trend to	Ultimate
ILAE Ratio	PY 2014	ILAE Ratio
-	1.000	-
60.8%	1.000	94.3%
28.3%	1.000	44.0%
12.3%	1.000	19.1%
23.5%	1.000	34.2%
15.3%	1.000	20.7%
53.0%	1.000	71.7%
75.3%	1.000	92.7%
58.9%	1.000	68.0%
39.4%	1.000	43.0%
44.1%	1.000	44.1%
		55.6%
		55.6%
		58.7%
		60.6%
		55.9%

PY 2014 Selected: 56.0%

Adjustment: 0.0%

PY 2014: 56.0%

ULE: 1.0%

Claims Fees: 0.0%

PY 2014 Ultimate ILAE Ratio: 57.0%