CS-19 Rate Monitoring

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Louis Gariépy Senior Vice President and Chief Actuary ACE Bermuda Insurance Limited

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The Company

- Low Frequency / High Severity
- Relatively small number of policies
- Lines of Business
 - Excess Liability
 - Professional Lines
 - Excess Property
 - Political Risk

Excess Liability

Coverage/Form

- Occurrence First Reported
- Claims-Made
- Occurrence Follow Form

Industry Segment

- Pharmaceuticals
- Petro-Chemical
- Consumer Goods
- Transportation

Product

- Up to \$150m in Limit
- Attachment above \$100m

Professional Lines

- Coverage/Form
 - CODA
 - A-Side Follow Form
 - ABC
 - E&O
- Industry Segment
 - Fortune 1000
- Product
 - Up to \$75m in Limit
 - Attachment above \$100m

Monitoring Analytics

- Monthly Process
- Rate Change

Excludes

- New Business
- Multi Year Policies
- Possibly Outliers
- One-time Adjustments (e.g. Additional Premiums)
- Rate Adequacy
 - New and Renewal Business

Rate Change

Phase 1 - Written Premium Report

- Produced one week prior to month end from internal systems
- Separately for each line of business
- Lists gross premium transactions that occurred during the calendar month
- Pass to underwriters to enter detailed characteristics of policies

Phase 2: Underwriter Input

Expiring vs. Renewing Premium

Quantify changes in

- Limits & Attachments (ILFs)
- Exposure
- Terms & Condition
- Coverage
- Other

Rate Change

- Phase 3 Analysis
 - Check for abnormal or unusual rate changes
 - Premium ties with Finance reports

Information is broken down by

- Company
- Industry code (Professional Lines) or Business Class (Excess Liability)

Rate Change

Example

- Consolidated exhibit is created
- Compares Actual to Planned Rate Change
- Summarizes rate Changes by Month, Quarter and YTD

				Gross	Plan
Renewal	New	Other	Total	Renewal	Price
GWP	GWP	GWP	GWP	Price Change	Change

April 2009

Prof. Lines - TOTAL	14,000	1,700	1,000	15,700	5.3%	5.4%
Product A	6,000	200	-	6,200	3.4%	4.0%
Product B	2,500	1,250	-	3,750	-1.6%	0.0%
Product C	4,000	250	-	4,250	12.7%	10.0%
Product D	1,500	-	-	1,500	4.7%	7.5%

(Values in \$000s)

Target Rate per Mille

- Ratio of Gross Premium to Total Limit
- Set at the beginning of the year
- Developed by business class/industry group

Based on

- Historical Ultimate Losses
- Historical Pricing Information (adjusted for trend)
- Using on-Level Premiums

Adjusted for

- Changes in Limit and Attachment
- Inflation

- Compares Actual RpM to Target
 - Includes All Business (New, Renewal, APs, etc.)

Adjusts Monthly For

- Limit and Attachment Changes
- Change in Mix of Business

- Phase 1 Data Extraction
 - Create a Premium Extract Table

Group Data by

- Department
- Policy Year and Month
- Sum Gross Premium and Total Limits
- Phase 2: Calculate Individual RpMs
 - Each Policy allocated to proper Industry Code/Business Class

- Phase 3 Analysis
 - Compare Actual RpMs to Target by Industry Code/Business Class
 - Calculate Overall RpM based on each classes' % of Total GWP

Consider Anomalies/Outliers

- Policies that attach over a certain level (e.g. 1 Billion)
- Policies with Extremely Low/High RpMs

Example

- Actual vs Target RpMs
- Total and separately for New and Renewals
- Show Current Month and Cumulative YTD

	TOTAL - MONTHLY	CLASS A	CLASS B
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2000					Rate	T	'arget	Actual	Actual %	Actual	Rate	Target	Actual	Actual %	Actual	Rate
2009	Tar	get RpM	Act	tual RpM	Adequacy]	RpM	GWP	of Book	RpM	Adequacy	RpM	GWP	of Book	RpM	Adequacy
January	\$	5,800	\$	6,348	109%	\$	4,000	\$ 1,500	55%	\$ 5,000	125%	\$ 8,000	\$ 1,227	45%	\$ 7,995	100%
February	\$	5,405	\$	6,020	111%	\$	4,025	\$ 900	60%	\$ 4,000	99%	\$ 7,475	\$ 600	40%	\$ 9,050	121%
March	\$	7,563	\$	8,209	109%	\$	6,250	\$ 1,800	65%	\$ 7,500	120%	\$ 10,000	\$ 969	35%	\$ 9,525	95%
April	\$	8,352	\$	7,880	94%	\$	7,800	\$ 1,200	54%	\$ 6,500	83%	\$ 9,000	\$ 1,022	46%	\$ 9,500	106%

(Values in \$s)

Key Points/Issues

- Actuaries cannot operate in a bubble
 - Interaction with Underwriting and their by-in is crucial
 - Management Support is needed
 - Timing is Everything

Questions?