Effective Report Writing: Tools for the Appointed Actuary

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2011 CIRS

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Antitrust Notice

- The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. Seminars conducted under the auspices of the CAS are designed solely to provide a forum for the expression of various points of view on topics described in the programs or agendas for such meetings.
- Under no circumstances shall CAS seminars be used as a means for competing companies or firms to reach any understanding – expressed or implied – that restricts competition or in any way impairs the ability of members to exercise independent business judgment regarding matters affecting competition.
- It is the responsibility of all seminar participants to be aware of antitrust regulations, to prevent any written or verbal discussions that appear to violate these laws, and to adhere in every respect to the CAS antitrust compliance policy.

Actuarial Report and Workpapers: Just the Facts

- The appointed actuary must give assurance that the actuarial report and underlying actuarial workpapers will be maintained at the company for seven years in the Statement of Actuarial Opinion.
- The Actuarial Report must be available to the regulator no later than **May 1** or within two weeks after a request from an individual state commissioner.
- Must be consistent with ASOP No. 41 (revised), ASOP No. 36 (revised), ASOP No. 43, and the CAS Statement of Principles Regarding Loss Reserves.

Actuarial Report and Workpapers: Just the Facts (cont.)

- The Report and workpapers are usually requested by the state as part of a financial exam or analysis.
 - All are usually considered confidential depending on individual state laws and regulations.
 - Ask your friendly regulator for details.
- Must contain both **narrative** and **technical** components.

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Actuarial Report and Workpapers: Just the Facts (cont.)

From the NAIC Instructions:

- "The narrative component should provide sufficient detail to clearly explain to company management, the Board of Directors, the regulator, or other authority the findings, recommendations and conclusions, as well as their significance.
- The technical component should provide sufficient documentation and disclosure for another actuary practicing in the same field to evaluate the work. This technical component must show the analysis from the basic data, e.g., loss triangles, to the conclusions."

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Actuarial Report and Workpapers: Just the Facts (cont.)

"The Report must also include:

- An exhibit which ties to the Annual Statement and compares the Actuary's conclusions to the carried amounts;
- Summary exhibit(s) of either the actuary's best estimate, range of reasonable estimates, or both, that led to the conclusion in the OPINION paragraph regarding the reasonableness ...;
- Documentation of the required reconciliation from the data used for analysis to the Annual Statement Schedule P;
- Extended comments on trends that indicate the presence or absence of risks and uncertainties that could result in material adverse deviation; and

Actuarial Report and Workpapers: Just the Facts

- Extended comments on factors that led to unusual IRIS ratios ...and how these factors were addressed in prior and current analyses."
- The CASTF, through the Regulatory Guidance Brief, also encourages the actuary to include in the actuarial report an exhibit that summarizes changes in the Appointed Actuary's estimates from the prior analysis, with extended discussion of significant factors underlying the changes.
- The Actuary is also encouraged to present their findings in person whenever possible.

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Documentation – Your Responsibilities

Code of Professional Conduct – Precept 4

"An Actuary who issues an Actuarial Communication shall take appropriate steps to ensure that the Actuarial Communication is clear and appropriate to the circumstances and its intended audience, and satisfies applicable standards of practice."

Applicable Standards of Practice

ASOP 21 ASOP 41
 ASOP 23 ASOP 43

• ASOP 36

Where Does a Good Report Begin?

- Data
 - ASOP No. 23 Data Quality
 - Reconciliation
 - ASOP No. 21 Assisting Auditors
 - Coordination with Independent Auditor
- Documentation and Disclosure
 - ASOP No. 41 Actuarial Communications
 - ASOP No. 43 Property/Casualty Unpaid Claim Estimates
 - Documentation of the Opinion
 - Actuarial Report and Workpapers

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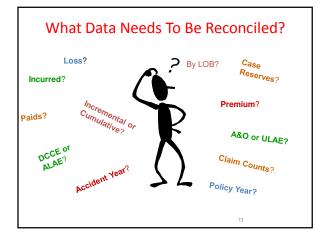
What's the Quality of YOUR Data? Even the best actuarial analysis can't compensate for poor quality data Actuarial Analysis Invest in understanding, reconciling and improving the quality of the data that is used for your actuarial analysis

ASOP No. 23 - Data Quality

- Selection of Data Considerations
 - Appropriateness, reasonableness, comprehensiveness, limitations, methodologies
- Disclose data source and reliance on data supplied by others
- Professional judgment needed when you have problems with data

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Reconciliation: Required Exclusive, Exhaustive Credibility Overstating Reserves But also Good Practice Understating Reserves



ASOP No. 21 – Responding to or Assisting Auditors or Examiners in Connection with Financial Statements

- · Responding actuary
 - Be prepared to discuss with auditor/examiner:
 - Data
 - Environmental considerations
 - -Changes in operations, trends, or products
- A well written report can save you time and your company/client money during an audit or examination
- Consider how you would react if you picked up your report for the first time in order to learn about the company and its reserves.

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DOCUMENTATION

Documentation should be sufficient for another actuary practicing in the same field to evaluate the work.

- ASOP No. 9 (repealed)

Documentation – What Regulators Expect

- Clearly describe sources of data, material assumptions, and methods, as well as any material changes in these items from prior analysis.
- Documentation includes worksheets and reports.
- Documentation should be retained for a reasonable period of time.

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ASOP No. 41- Requirements

- Identify principal and scope of assignment.
- Form and content should be clear and appropriate for the intended audience.
- Actuary should issue actuarial communication in a timely manner.
- Identify work of responsible actuary and reliance on others.
- Significant findings should be in written or electronic form, unless otherwise agreed-upon by the principal and the actuary.
- Actuarial report should identify data, assumptions, and methods used such that another actuary could make an objective appraisal of the work.

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ASOP No. 43 – Property/Casualty Unpaid Claim Estimates

- ASOP No. 43 applies to the actuary only with respect to unpaid claim estimates that are communicated as an actuarial finding (as described in ASOP No. 41) in written or electronic form.
- The terms "best estimate" and "actuarial estimate" are not sufficient identification of the intended measure, as they describe the source or the quality of the estimate but not the objective of the estimate.

ASOP No. 43 - Disclosures

- "... consistent with the intended purpose or use, the actuary should disclose the following in an appropriate actuarial communication:
- "the intended purpose(s) or use(s) of the unpaid claim estimate ..."
- "significant limitations, if any, which constrained the actuary's unpaid claim estimate analysis, such that ... there is a significant risk that a more in-depth analysis would produce a materially different result ..."
- "the scope of the unpaid claim estimate ..."
- Three key dates (accounting, valuation, and review)

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ASOP No. 43 - Disclosures

- "... consistent with the intended purpose or use, the actuary should disclose the following in an appropriate actuarial communication:
 - "specific significant risks and uncertainties ... with respect to whether actual results may vary from the unpaid claim estimate ..."
 - "significant events, assumptions, or reliances ... [that] have a material effect on the unpaid claim estimate
 - if "the actuary specifies a range of estimates, the actuary should disclose the basis of the range provided ..."

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Some Final Facts

- Approximately 2,500 statutory opinions were issued by about 475 actuaries in 2010
- Top 19 opiners (4 percent of actuaries):
 - -581 opinions (24 percent of opinions)
 - Signed between 20 and 57 opinions each
- 35 actuaries provided 1/3rd of opinions
- 835 opinions
- Signed 14 or more
- 27% signed only one opinion (129 opinions)
- Question: How many is too many?

In Conclusion

From the Regulatory Guidance Appendix of the Practice Note:

"The CASTF believes that regulators should be able to rely on the Report as an alternative to developing their own independent estimates. A well-prepared and documented Actuarial Report that is consistent with the spirit(ghost?) of ASOP No. 9 can provide a foundation for efficient reserve evaluation within a statutory examination. This provides benefits to the examination process and potential cost-savings to the company."

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Writing a Good Actuarial Report: Best Practices & Considerations

CLRS September 2011 Nicole Elliott, ACAS, MAAA Texas Department of Insurance

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Your Mission

- Tell the story
 - Include background, historical information, details
 - What, where, why, when, how,...and how much?
- Provide a road map
 - Help the reader navigate through the narrative and exhibits
 - Describe the process and the steps along the way
- Not only do you need to put yourself in the reader's shoes, consider yourself a TEACHER
- Don't get too comfortable with the assignment that you forget to explain things

Who wants to hear the story?

- Management, Regulators, Auditors, Rating Agencies...
- · Actuaries and non-actuaries
 - need to strike a balance between technical details and summarized information for different audiences
- · Assume a knowledgeable reader
 - Knowledgeable about what? Actuarial analysis, insurer background, industry conditions...

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Who tells a good story?

- Appointed actuaries who are Company employees
 - Reports tend to follow the internal management reporting system
 - Formalized Report lacks the "glue" that ties everything together for the external audience
 - Often the "Report" is many large excel files (i.e., not really a Report)
 - Maybe two reports are needed (gasp!) to satisfy both internal and external audiences; this is not unlike having a Report in accordance with ASOPs and a "Report" suitable for the Board

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Who tells a good story?

- · Appointed actuaries who are consultants
 - Reports tend to be fairly well organized
 - Reports tend to look the same (not necessarily a bad thing)
 - Sometimes there is difficulty incorporating analysis and verbiage that differs from the standard
 - Template language and footnotes sometimes not updated or individualized

Chapter 1: Executive Summary

- Main audience: Management, including the Board (but really includes all users)
- Include:
 - Overall conclusions in the aggregate and by segment (Schedule P line of business or other), including comparison to carried reserves
 - Discussion regarding uncertainty, range estimates
 - Exhibit comparing current estimate with prior years
 - Table of Contents to direct reader to further detail and illustrate organization of report

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Chapter 2: Company Background

- Main audience: Regulator
- Include:
 - · History of the Company
 - · Lines and types of business written
 - Discussion of overall reinsurance program by line and year, including commutations or retroactive arrangements
 - Overview of claims handling and claims characteristics
 - Highlight of significant changes in the organization in the current year or historically

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Chapter 3: Technical Narrative

- Main Audience: Actuaries or "technical types"
- Describe the process used to get your estimates
 - What data was used
 - How was it segmented
 - How was it analyzed methods used
 - How was reinsurance handled (methods for net and gross data)
 - How were the loss adjustment expenses analyzed

Technical Narrative cont.

- Use the presentation of your technical exhibits to help you write and organize your narrative
- Should your narrative be by segment or by type of loss or reinsurance program?
- Discuss how the ultimates were selected by segment
- Discuss how critical assumptions were derived or supported
- If diagnostic exhibits are provided, explain why they are meaningful to your analysis

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Chapter 4: Technical Exhibits

- · How technical should you get?
 - Probably depends on volume and complexity
 - If a small company, probably could include "everything"
 - If a large company, aggregated exhibits probably ok; indicate in the narrative or via a list what other information is available or include it in an appendix
- Organization trumps detail!
 - More informative to discuss what, why, and how in an organized manner than to present triangles and data at every possible level of detail with no explanation

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Further Considerations

- Support assumptions & judgment
- Support selections
- Support Ranges (if used)
- Include a proper Reconciliation
- Coordinate with the Auditor
- · Have a peer review
- Misc

Assumptions & Judgment

- Don't just state WHAT was done; say WHY
- How did you apply actuarial judgment?
 - If another reasonable alternative assumption would cause a material difference in estimates, the assumption requires further explanation.
 - What considerations helped form your judgment?
 - If you used external data or benchmark data, cite where it came from and why it is applicable to your analysis.

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Support Selections

- Expected loss ratios used in Born-Ferg methods
- Ultimates
- LDFs that are not reasonably supported by the historical data
- · Tail factors
- Application of selections help the reader get from point A to point B
- Merely stating "Selected" in footnotes or "based on actuarial judgment" is not sufficient

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Example: Selection of Ultimates

| | (1) | (2) | (3) |
|-------------|----------|--------------|----------|
| Accident Yr | Paid LDM | Incurred LDM | Selected |
| 2003 | 11,244 | 11,250 | 11,250 |
| 2004 | 12,985 | 12,738 | 12,738 |
| 2005 | 15,215 | 14,471 | 14,471 |
| 2006 | 17,588 | 16,308 | 16,308 |
| 2007 | 19,109 | 17,539 | 17,539 |
| 2008 | 21,435 | 20,119 | 20,119 |
| Total | 97,576 | 92,425 | 92,425 |

- (1) From exhibit 3, sheet 2, column (8)
- (2) From exhibit 3, sheet 4, column (8)
- (3) Selected

Selection of Ultimates

- What was wrong with the paid method or paid data?
- Where is the support for the selection? (Could be and probably should be in the narrative)
- Is this similar to prior selections?
- Would use of the average, if material, constitute a material change in methods or assumptions worthy of opinion disclosure?
- If the paid method or the average were used, is the difference in estimates material for this company?

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How were LDFs selected?

- Another actuary should be able to review the selections and either see the supporting data or understand why the selection deviates from the available support.
- Sufficient narrative or footnote: "There was not enough history to rely on for values near the tail or past 72 months; therefore, xyz benchmark data was used. This benchmark data is relevant because.... In some cases, the benchmark data was tempered somewhat to reflect the change in case reserving as discussed previously..."

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Support Ranges

- A Range is often provided in Reports with no explanation of how it was derived
- Need narrative describing methods and assumptions, including parameters
- Need technical exhibits showing some analysis and summary exhibits with conclusions
- Was correlation among lines considered?
- ASOP No. 43: "In the case when the actuary specifies a range of estimates, the actuary should disclose the basis of the range provided."

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Point, Range, or Both?

| Point | 50% |
|-------|-----|
| Range | 15% |
| Both | 35% |

Excludes companies that carry zero net reserves
This has not changed much in the last few years

• This has not changed much in the last few years

Source: 2010 multi-state data from regulatory actuaries in NY, PA, TX, IL, OH $\,$

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Proper Reconciliation

- Reconciliation should tie the data used by the actuary in her analysis to the data presented in Schedule P by Schedule P line of business
- Reduces questions regarding data integrity and completeness
- The Actuarial Data column should reconcile to the analysis exhibits
 - Often the "actuarial data" column can not be replicated
- Reconciliation should also provide the missing links to get to Schedule P, e.g., catastrophe data, reclassifications of LAE, commutations, etc.
- Material differences by accident year require explanation

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Coordinate with the Auditor

- May need to document your reserving process, especially if you are a Company actuary, including risk assessment and key controls over risks, in accordance with Model Audit Rule
- Expect to provide the auditor with a letter regarding significant data elements used in your analysis

Have a Peer Review

- Reviewer to look at your work with 'informed skepticism'
- Scrutinize assumptions and methods
 - Pre-ponderence of optimistic or pessimistic assumptions?
- Re-perform some calculations (check the math)
- Identify missing narrative or exhibits
- Use a review checklist
- Helpful to have a non-actuary look at it also

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Misc

- Support roll-forwards
- Make sure the amounts in your Report match your Opinion, your Summary, and the financial statement
- · Bookmark pdf files
- Contact your friendly regulatory actuary with any questions

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What Makes a Good Actuarial Report?

Casualty Loss Reserve Seminar September 2011

By:
Joseph A. Herbers
Pinnacle Actuarial Resources, Inc.



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OUTLINE OF PRESENTATION

- Background on Herbers
- General Observations & NAIC CATF Guidance
- · Essential Elements of Report
- Electronic Reports
- · Presentations to Board of Directors

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Background on Herbers

- · COPLFR Member for 14 years, Current Chair
 - Faculty for AAA Seminar on Effective P/C Loss Reserve Opinions
 - Practice Note, Law Manual and Model Audit Rule Subcommittees
- Member of CPC & FRC of AAA
- Write over 100 reserve analysis reports every year
- Reports are reviewed by internal peer reviewer, auditors, regulators, reinsurers, brokers, etc.
- Involved in audit support work reviewing other actuaries' reports

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General Observations

- Focus of my comments are on actuarial reports – not on SAOs or AOS
- AAA Code of Conduct Precept 4

"take appropriate steps to ensure that the Actuarial Communication is clear and appropriate to the circumstances and its intended audience"

Observations - ASOP 41

• Section 3.2 - Actuarial Report

"actuary should state the actuarial findings, and identify the methods, procedures, assumptions, and data used by the actuary with sufficient clarity that another actuary qualified in the same practice area could make an objective appraisal of the reasonableness of the actuary's work"

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Observations – CASTF Guidance

NAIC CASTF – Regulatory Guidance Memo on Actuarial Report noted three notable weaknesses in documentation of many actuarial reports:

- Expected Loss Ratio
- Actuarial Judgment
- Entity

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Observations - CASTF Guidance

- Report should contain exhibit summarizing changes in estimates from prior analysis, with extended discussion of significant factors underlying the changes – in order to improve transparency of disclosures
- Exhibit comparing held reserve amounts with actuarial indications
- Reconciliation exhibit between financial statement and data provided to actuary
- Added disclosures for "roll forward" type analyses

Report Components

Report Sections

- · Title Page
- Transmittal Letter
- Table of Contents
- Purpose & Scope
- Distribution & Use
- Background
- Data Used
- · Methodology

- · Discussion & Analysis
- Findings
- · Reliances & Limitations
- · Index of Exhibits · Exhibits
- · Index of Appendices
- · Appendices

Format / Flow of Report

- The "flow" of a report adds considerably to a reviewer's ability to follow the work
- Most well written reports have at least 3 sections:
 - Narrative poorly written reports have scant narrative; some treat it as an afterthought
 - Exhibits poorly written reports have difficult to understand numbering schemes, illogical flow of exhibits themselves (e.g., Part A, Section B, Appendix B, Exhibit
 - Appendices similar comments as for Exhibits

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Format / Flow of Report

- Highest level of detail towards back of report
 - Appendices
 - source data
 - loss development triangles Copies of reinsurance agreements
- Summarization of detail in Exhibits
 - Footnotes should help guide the reviewer, not provide a confusing maze for cross checking information
 - Footnotes should guide, not provide rationale for assumptions (see
- · Summary or Exhibit 1 should show held v. indicated

| Reserve | | | | | | Loss A | djustment E | xpense Rese | erves | |
|----------------|----------|---------|---------|---------|---------|--------|-------------|-------------|---------|---------|
| | Line of | | Loss Re | | | DC | | | Total | Total |
| Category | Business | Case | IBNR | S/S Rec | Total | Case | IBNR | A&O | LAE | Loss+LA |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Required | PPAL | \$1,927 | \$2,451 | | \$4,379 | \$299 | \$452 | \$468 | \$1,219 | \$5,59 |
| Reserves | CAL | 247 | 86 | | 333 | 39 | 49 | 42 | 130 | 46 |
| | APD | 469 | 250 | (660) | 58 | (15) | 349 | 33 | 367 | 42 |
| | GL + PL | 127 | 501 | | 628 | 24 | 384 | 418 | 826 | 1,45 |
| | HMP | 459 | 352 | | 811 | 33 | 251 | 153 | 437 | 1,24 |
| | TOTAL | 3,229 | 3,641 | (660) | 6,210 | 380 | 1,485 | 1,114 | 2,979 | 9,18 |
| Held | PPAL | 1,927 | 2,452 | | 4,379 | 299 | 452 | 468 | 1,219 | 5,59 |
| Reserves | CAL | 247 | 86 | | 333 | 39 | 44 | 42 | 125 | 45 |
| | APD | 469 | 250 | (660) | 59 | (15) | 349 | 33 | 367 | 42 |
| | GL + PL | 127 | 502 | | 629 | 24 | 387 | 420 | 831 | 1,46 |
| | HMP | 459 | 353 | | 812 | 33 | 250 | 153 | 436 | 1,24 |
| | TOTAL | 3,229 | 3,643 | (660) | 6,212 | 380 | 1.482 | 1,116 | 2,978 | 9,19 |
| Indicated | PPAL | | 1 | | 1 | | 0 | 0 | 0 | |
| Reserve | CAL | | (0) | | (0) | | (5) | (0) | (5) | (|
| Deficiency(-)/ | APD | | 0 | (0) | 0 | | (0) | 0 | (0) | |
| Redundancy(+) | GL + PL | | 1 | | 1 | | 3 | 2 | 5 | |
| | HMP | | 1 | | - 1 | | (1) | (0) | (1) | |
| | TOTAL | | \$2 | (\$0) | \$2 | | (\$3) | \$2 | (\$1) | \$ |

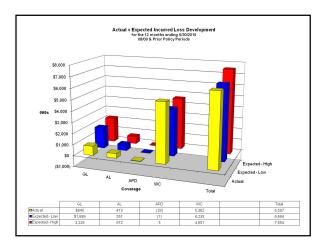
General Comments

- Documentation of assumptions is often sparse
 - Background section of report with info on retentions, deductibles, unique program features is invaluable
 - Are LAE included in losses? Was A&O LAE considered?
- Footnotes to exhibits leave something to be desired
- Data limitations are often significant and need discussion
- Tables, charts and graphs can add immeasurably to understanding of report

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Background

- Runoff (actual v expected) can be helpful
- Description of changes in volume
- Changes in average rates
- Changes to company's net retention
- Operational changes
 - Management
 - Claims Handling
 - Underwriting
 - Markets served
 - Systems / data sources



Actuarial Judgment

Per Section 4.5.3 of the Introduction to the ASOP's (Oct. 2008)

Professional judgment - Actuaries bring to their assignments not only highly specialized training, but also the broader knowledge and understanding that come from experience. The ASOPs frequently call upon actuaries to thoughtfully apply both training and experience to their professional assignments, recognizing that reasonable differences of opinion are appropriate, if not inevitable, when professionals undertake to project the effect of contingent future events. The ASB anticipates that the actuary's use of professional judgment will be presented in such a way that another qualified actuary would recognize when and where judgment has been applied, even if the other qualified actuary might disagree with the resulting conclusions.

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Report Content

- Are all assumptions and methods specified?
- Are the assumptions and methods reasonable for this assignment?
- Are the data sources identified and appropriate for their use in the analysis?
- Are the resulting calculations correct?
- Are the results, findings and recommendations reasonable and adequately supported by the analysis?
- Does the work product meet actuarial standards of practice or other professional standards?
- Are any reliances and limitations appropriate and clearly delineated?
- Is the potential variability of results adequately discussed?

Discussion & Analysis

- Why are the assumptions reasonable? Are other assumptions not reasonable?
- What has changed since last year? What are the drivers of those changes? Are they random or systematic?
- What tests of reasonableness were considered?
- Are conclusions significantly different than those from last year?
- Which segments of the book of business should be more closely scrutinized than others?
- What are circumstances affecting your actuarial judgment?

Discussion & Analysis - Flow of Report

- General description of each block of business reviewed
- More detailed description of analysis for each block of business
 - Changes since last evaluation
 - Important assumptions
 - Impact of factor A, factor B, ...
 - Results
- · Tests of reasonableness • Block 2, 3, ...
- · Indicated reserves for all programs combined / covariance
- DCC LAE
- Time Value of Money
- Risk Margins
- A&O Expense

Electronic Reports

- High Resolution pdf
- Security Features
- · Bookmarks!
- · Layout mirrors hard copy
- E-signature
- Disclaimers in electronic communication

"The electronic version of this document was released with limited security features. ABC Consulting Firm is not responsible for any additions, deletions or modifications made to this document after its release."

Presentation to Board of Directors

- See Practice Note, Appendix 12

 "An Overview for Audit Committee Members of P/C
 Insurers: Effective Use of Actuarial Expertise"
- White Paper document prepared by COPLFR in 2007
- Helpful guidance on what to include in presentations to Board of Directors

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Presentation to BOD/Audit Committee

- Variability & Estimates of Unpaid Claims Liabilities
- Actuarial Considerations & Judgment
- Historical Accuracy (Report Card)
- Industry & Competitor Trends & Risks
- Disclosures

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Presentation to BOD/Audit Committee

- Reserve Ranges v Point Estimate
- Key Statistics & Benchmarks
- Summary of Held v Indicated
- Changes since Prior Evaluation
- Key Risk Factors
- RMAD / Materiality Threshold
- IRIS Test Results
- Explanatory Comments

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