Captive Insurance: Another View	
	<ul> <li>Scott Anderson, Senior Vice President and Actuary, Gross Consulting</li> </ul>
	Jeffrey Kadison, President, Practical Actuarial Solutions, Inc.
	Dave Provost, Deputy Commissioner, Captive Insurance, Vermont Department of Financial Regulation



Session Overview		
Feasibility Studies		
Proforma Financial Statements		
Funding		
□ Reserving		
Data Issues		
Examinations		
□ ASOPs		

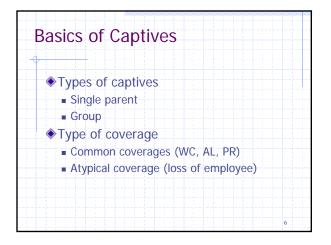
Antitrust Notice			
The Casualty Actuarial Society is committed to adhering strictly to the letter and spirit of the antitrust laws. Seminars conducted under the auspices of the CAS are designed solely to provide a forum for the expression of various points of view on topics described in the programs 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.			













/hy	/ Form a Captive?
♦	ffordability of insurance
♦A	vailability of insurance
	etter than average insured (cost avings)
♦ B	etter coverage
¢С	ontrol of risk management process
♦G	rowth of parent
	Organic growth
	Merger or acquisition

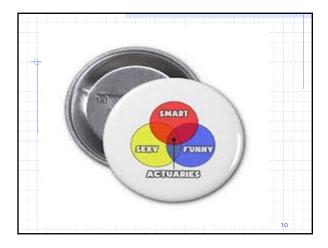


Lines of Bu	3111532 ~	Top 5	
Property			
General Liability			
UWorkers Compe	nsation & EL		
Professional Lia	bility		
Auto Liability or	APD		



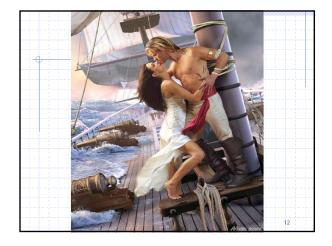
TRIA Specific Policies	Warranty
Umbrella Liability	D&O
Products Liability	□ E&O
Pollution Liability	Life XXX
Crime, Surety, Fidelity	Marine
Employee Benefits – DOL App.	Mortgage Guaranty
Credit Life, Accident, Health	Flood, Earthquake
Environmental Impairment Business Interruption	Medical Stop Loss



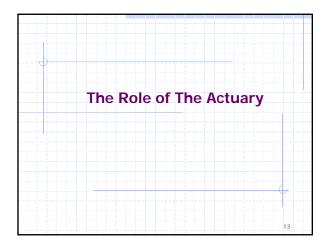












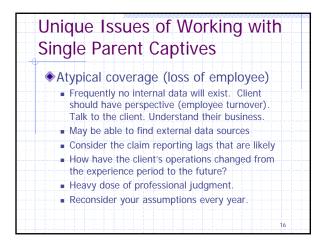


What do actuaries do for captives?	
<ul> <li>Feasibility studies</li> </ul>	
The database starts here	
Pro-forma financial statements	
The game plan for the future. Helps del appropriate capital levels.	fine
Rate / funding studies	
Reserve reviews	
The actuary can work from the start-up after captive has been in existence.	or 14



Unique Issues of Working w Single Parent Captives	ith
♦ Common coverages (WC, AL, PR)	
Client should have data	
Loss history	
Exposures	
May need external data too	
<ul> <li>How have the client's operations chan from the experience period to the future</li> </ul>	
<ul> <li>Expansion, closings</li> </ul>	
<ul> <li>Mergers, acquisitions</li> </ul>	
Class and state mix	
	15







Characteristics of Group Captives	
Group captives can be like a small insurance company.	
Frequently homogenous group of insureds based on:	
Class or classes	
<ul><li>Association membership</li><li>Geography</li></ul>	
	17



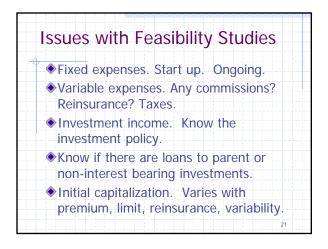
Unique Issues of Working wit Group Captives	h
Typical data base is not large enough be sufficiently credible.	ı to
Stability is reduced if the data base is segmented such as by class or geography.	
Be mindful of both the quantity of insureds and the quality of insureds.	
	18



Captive	
Information gathering	
Review of loss data and financial information	
Captive modeling	
Business plan development	
Structure of captive	
Determination of optimal ownership structure	
Analysis of tax issues*	
Domicile analysis	
Implementation steps	
Final report issued	
Ongoing consulting	

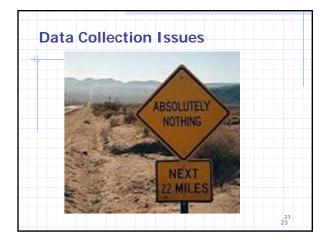
Issues with Feasik	oility Studies
♦Need to project past	activity to next year
Premiums	
Exposure	
Rates	
Pricing	
♦Losses	
Exposure	
Frequency	
Severity	
	20













Availabil	ity
Credibilit	y
Commor exclusive	n Group Challenges (but not ely!)
Varying	policy & valuation dates
<ul> <li>Differin philoso</li> </ul>	ng claims TPA's with differing case reserve phies
- Homog	eneity of risks



ssues With Estimating Ultimate
osses – Common Coverages
Methods
Frequent use of Bornhuetter Ferguson
Many use Loss Development Method
Some use non-traditional approach
(discussions with captive, claims staff)


	ssues With Estimating Ultimate osses – Common Coverages
-	Assumptions
	<ul> <li>For rate and reserving studies, refer to the feasibility study and pro-formas</li> </ul>
	For B-F, the initial expected losses. Derived from feasibility study?
	• For B-F and LDM, LDFs. What is the source?
	26



Issues With Estimating Ultimate Losses – Atypical Coverages	
Methods	
<ul> <li>Frequently cannot apply standard method</li> <li>Can revert to Bornhuetter Ferguson or Expected Loss Method for immature year</li> </ul>	
<ul> <li>Assumptions</li> </ul>	
<ul> <li>For rate and reserving studies, refer to feasibility study and pro-formas</li> </ul>	the
Revisit your initial assumptions	
	27



_511	nating Ultimate Loss	500
	ypical coverage example terruption)	(business
1.	Likelihood of breakdown	2%
2.	Duration of downtime	1 week
3.	Lost revenue per week	\$180,000
4.	Non-continuing expenses	\$ 30,000
5.	Lost profit per week	\$150,000
6.	Expected loss (1)*(2)*(5)	\$ 3,000



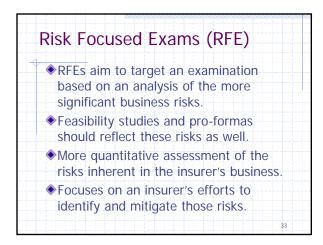
ls	sues with Pro-Forma Financial
<	Need to project future activity from past history
<	Premiums
	Exposure growth
	Rate changes
	Pricing changes
<	Losses
	Exposure growth
	<ul> <li>Frequency trend (low frequency coverage)</li> <li>Severity trend</li> </ul>

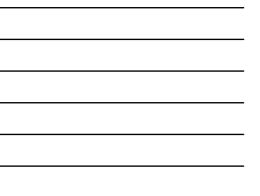
	ssues with Pro-Forma Financial
<	Expense trends
<	Consistency across trends and changes
<	Surplus levels should be commensurate with size and variability.
~	Adverse scenario should reflect a true adverse scenario. It should be a serious
	sensitivity test. No consultant wants to
	tell a captive owner that they need to add more capital.
	30

Issues with Reserve Review	S
◆ ◆Data	
<ul> <li>Exposures, premium for the captive's loss</li> </ul>	layer of
Initial estimate of ultimate losses	
<ul> <li>Feasibility study and pro-formas after assessing the accuracy 1, 2, 3 years la</li> </ul>	ater.
Be aware of leverage in the reserve	e to
surplus ratio.	
surplus ratio.	
	31



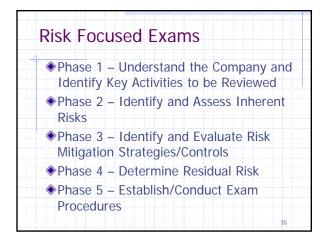
ssue	es with Reserve Reviews
Meth	nods
So So	me captives have little loss data.
	aditional methods frequently not propriate.
Kn	now the individual incidents if practical.
Assu	Imptions
en	ss Development Factors. Probably not ough client data. Use other appropriate ctors (internal studies, industry)

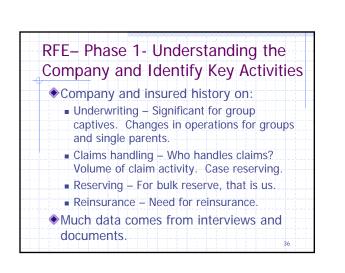


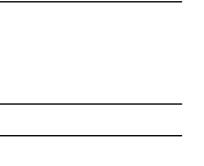


	Risk Focused Examinations
Phase	1 – Understand the Company & Identify Key Functional Ac
	Phase 2 - Identify & Assess Inherent Risks
	Phase 3 – Identify & Evaluate Risk Mitigation Strategies
	Phase 4 – Determine Residual Risk
	Phase 5 – Establish/Conduct Examination Procedures
	Phase 6 – Update Prioritization & Supervision Plan
	Phase 7 – Draft Exam Report & Management Letter
34	Source: Adapted from NAIC Financial Condition Examiners Handbook









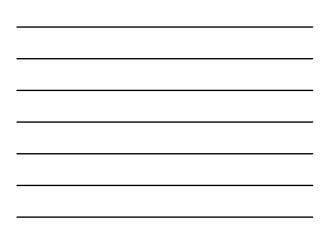
12

RFE – Phase 2 – Identify and	
Assess Inherent Risks	
♦ What can go wrong?	
Examiners will write risk statements.	
Data integrity. Completeness and accuracy.	
Premiums are not adequate.	
<ul> <li>Changes in claims handling not adequately reflected in reserves.</li> </ul>	
<ul> <li>Reserving assumptions and methodologies are not appropriate.</li> </ul>	
37	


-

RFE – Phase 3 – Identify and Eval Risk Mitigation Strategies / Contro	
Review pricing / underwriting contro	s.
Are rates set using a disciplined approa	ch?
For group captives, have underwriting standards changed?	
Experience level of underwriting staff.	
Claims handling process	
<ul> <li>Experience of claims staff.</li> </ul>	
Case reserving philosophy and history.	
	38

RFE – Phase 4 – Determine Residual Risk	
◆NAIC formula	
Inherent risk	
Minus	
Internal controls	
Equals	
Calculated residual risk	
	39



RFE – Phase 5 – Establish / Conduct Exam Procedures	
Actuarial reports and/or work papers will likely be reviewed. Keep your documentation and data in good order.	
Know the results of your prior analyses. Regular adverse development will require greater depth of examiner review.	Э
Think sensitivity testing	
40	






CAS Statement of Principles Reserves	on
Data organization – Members of a group captive may have different effective dates, valuation dates, etc Possibly different TPA's with their different definitions and philosophic	
Homogeneity could apply to class, industry, geography. May have heterogeneity that gets magnified to small size.	due



CAS Statement of Principles or Reserves	1
Credibility is generally lacking. Trying to gain credibility by increasing the size frequently does not work since heterogeneity frequently increases.	9
Data availability – Prepare at the beginning to get the needed data. Pray for a good captive manager.	
	43


CAS Statement of Principles on Reserves	
Reserves	
Emergence and settlement patterns – Much conjecture as data base is probably either young or small.	
<ul> <li>Development patterns – May be able to construct some triangles for groups.</li> <li>Probably not credible. Consider alternative sources (NCCI, ISO, Best).</li> <li>Remember the data (net, direct, layer of loss, state, subline, claims-made / occurrence, etc.)</li> </ul>	

Reserves	
Reinsurar	nce.
Operation	al changes can be significant
	for growing companies
starting s	ingle parent captives.
State mi	x
Class mi	X
Vertical	integration

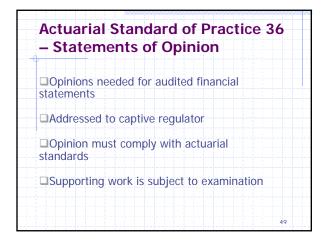


CAS Statement of Principles on Reserves	
All of these issues may make it difficult to use many methods with a sufficient degree of confidence.	
If using a loss ratio method, carefully assess the reasonableness of the selected loss ratio. Reconsider the loss ratio annually.	
46	



ASOP 23 – Data Quality
<ul> <li>3.3 – Reliance on data supplied by others.</li> </ul>
<ul> <li>3.4 – Reliance on other information/ Contract provisions, plan documents, reinsurance treaties.</li> </ul>
3.5 – Review of data. Reasonable and consistent.
3.7 – Use of data. Sufficiency, enhancements, adjustments, inadequacy. 48







ASOP 41 – Actuarial	
Communications	
3.1 – Scope of work. Reserve or rate review may not be the proper analysis for a feasibility study.	
3.2 – Actuary should disclose findings and identify methods, procedures, assumptions, and data used by the actuary with sufficient clarity that another actuary can make an objective appraisal of the reasonableness of the actuary's work.	

ASOP 41 – Actuarial Communications	
3.4.1 – Uncertainty or risk. Uncertain is a certainty.	nty
3.4.3 – Reliance on other sources of data is a certainty too. Actuary is responsible for the report except whe	en
the actuary disclaims responsibility.	
	51



ASOP 41 – Actuarial
Communications
<ul> <li>3.4.4 – Responsibility for Assumptions and Methods – Silence in report = actuarial acceptance of responsibility. Does the actuary agree, disagree, or have no opinion? Disclose as required in 4.3.</li> </ul>
4.1.3 – Review disclosure section (user, scope, qualifications, risk, etc)
♦4.1.3.b – Intended purpose 52

Estimates	
2.7 Model risk can be greater e for younger captives. Specified phenomenon may be unclear.	
2.8 – Parameter risk is generall for captives since they are often newer, and more unknown.	
2.10 – Process risk is generally for captives for the same reaso	

ASOP 43 – Unpaid Claim
Estimates
3.1 – Purpose or Use. Why is this analysis being completed?
3.2 – Constraints on the Estimate. Limited data may be a constraint.
♦3.6.1 – Methods and Models.
<ul> <li>3.6.2 – Assumptions. More professional judgment. Sensitivity tests are important.</li> <li>3.6.8 – Uncertainty. What are the risks?</li> </ul>
• 5.0.0 – Uncertainty. What are the fisks?

