

Managing a Reserving Project Effectively – Consultant's View

Casualty Loss Reserve Seminar
San Diego, CA

Commitment Beyond Numbers



Laura A. Maxwell, FCAS, MAAA

September 16, 2014

Agenda

- What is Project Management
- Initiating Project
- Planning Project
- Executing Project
- Monitoring & Controlling Project
- Closing Project
- Conclusion

What is Project Management

“Project management is the application of knowledge, skills and techniques to execute projects effectively and efficiently. It’s a strategic competency for organizations, enabling them to tie project results to business goals – and thus better compete in their markets.”

Source: Project Management Institute website

What is Project Management

- Manages expectations of project team and client
- Allocates activities to the right person at the right time
- Acts as gatekeeper
- Communication

Initiating

Activities

- Identify scope
- High level project plan
- Estimate costs
- Submit proposal

Pitfalls

- Underestimating scope
- Not fully understanding goals
- Underestimating time

Initiating – Identify Scope

- Review prior report
- What data will be delivered
- Has scope changed
- How many hours were expended previously
- Include parameters to limit scope creep

Initiating – High Level Project Plan

- Kickoff meeting
- Collection & review of data
- Development of reserve analysis exhibits
- Technical review of exhibits
- Analysis/selections
- Peer review of exhibits/analysis/selections
- Draft report
- Peer review of draft report
- Presentation of draft report
- Changes to draft report
- Presentation of final report

Initiating – Estimate Costs

- How will data be delivered
- What data will be delivered
- Has scope changed
- How many hours were expended previously

Initiating – Submit Proposal

- Internal peer review
- Clearly describe project plan
- Include project deliverables

Planning

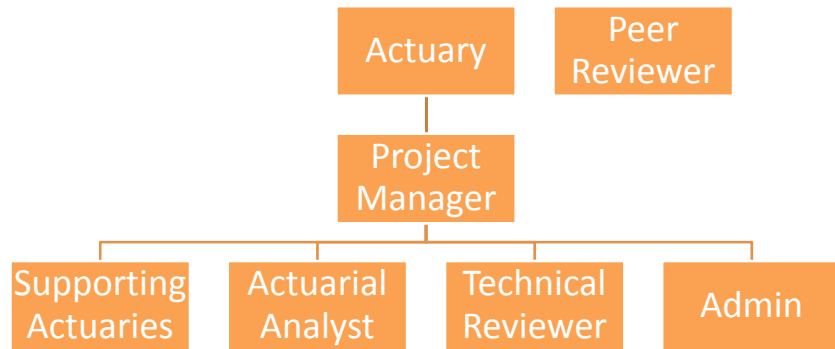
Activities

- Identify team
- Allocate responsibilities
- Allocate tasks
- Establish timelines
- Communication channels

Pitfalls

- Poor communication
- Lack of clarity in responsibilities
- Unrealistic resource allocation
- Coordination of resources with other projects

Planning – Identify Team



Planning – Allocate Tasks and Responsibilities

Key Steps	Actuary	Project Manager	Peer Reviewer	Actuarial Analyst	Technical Reviewer	Admin Staff
Kickoff meeting	X	X	X	X		
Data	X	X		X		
Exhibits	X	X		X		
Tech review					X	
Analysis	X	X				
Peer review analysis			X			
Write report	X	X		X		X
Peer review report			X			
Deliver report	X					X

Planning – Communication Channels

- Status reports
- Internal meetings
- External meetings

Executing

Activities

- Project Kick-off
- Data review & organization
- Exhibit development
- Analysis
- Report writing

Pitfalls

- Data
- Lack of communication
- Competing projects
- Lack of experience/expertise


Executing – Project Kickoff

External

- Program history
- Operational changes
- Scope of project
- Expectations
- Deadlines
- Available data and format
- Data dictionary

Internal


- Assign roles
- Discuss items from external meeting
- Set deadlines


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Executing – Project Kickoff


ASOP 23

Source of data




Statement of Principles

Data organization homogeneity	Aggregate limits change in contracts	Reinsurance commutations	Pools & associations discounting	Operational changes External influences
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ASOP 43

Type of unpaid claim expense	Type of claims	Risks posing significant/material effect	Consideration of external factors	Consideration of significant changes
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Executing – Data Review

- Reconciliation with financial statements
- Reconciliation with prior analysis
- Paid data - calendar year or inception to date
- Limited or full value claims
- Gross or net of salvage/subrogation
- Treatment of DCC

Executing – Data Checklist (ASOP 23)

- Source of data
- Review of data and any resulting limitations
- Extent of reliance on data supplied by others
- Any material judgmental adjustments or assumptions
- Any limitations on the actuarial work product
- Any unresolved concerns
- Existence of results that are highly uncertain
- Conflicts arising from complying with applicable law, regulation or other binding authority

Executing – Exhibit Development

- Development methods based on available data
- Easy to update
- Well documented
- Footnotes
- Technical review of data input and formulas

Executing – Analysis

- Review diagnostics
- Loss development patterns
- Expected loss ratios (costs)
- Supplement with industry benchmarks
- Loss & DCC methods
- AOE method(s)
- Selection of ultimates
- Central estimate or range of estimates
- Nominal or discounted basis
- Risk margins

Executing – Analysis Checklist

- Data organization
- Homogeneity
- Credibility
- Data availability
- Emergence patterns
- Settlement patterns
- Development patterns
- Frequency & severity
- Reopened claims potential
- Claims-made
- Aggregate limits
- Salvage, subrogation and collateral sources
- GAAP
- Reinsurance
- Portfolio transfers, commutations, structured settlements
- Pools and associations
- Operational changes
- Changes in contracts
- External influences
- Discounting
- Provision for uncertainty
- Reasonableness
- Loss related balance sheet items
- Loss reserving methods
- Standards of practice

(Statement of Principles Regarding Property and Casualty Loss and Loss Adjustment Expense Reserves, May 1988)

Executing – Report Writing

ASOP 20

- Discounting of property/casualty unpaid claims estimates

ASOP 23

- Data quality

ASOP 38

- Using models outside the actuary's area of expertise (property and casualty)

ASOP 41

- Actuarial communications

ASOP 43

- Property/casualty unpaid claim estimates

Executing – Report Checklist (ASOP 41)

- Form & content are appropriate
- Clarity of report
- Actuarial findings clearly stated
- Methods, procedures, assumptions, data sources
- Allow appraisal by another actuary
- Do circumstances constrain content
- Material differences from prior report
- Identification of responsible actuary
- Acknowledgment of qualification
- Identification of actuarial documents
- Identification of intended users
- Cautions regarding risk & uncertainty
- Limitations on use
- Data/information date
- Subsequent events
- Assumptions/methods prescribed by law
- Responsibility for assumptions/methods
- Conflicts of interest
- Deviation from standard

Executing – Report Checklist (ASOP 43)

- Identification of principal
- Identification of purpose
- Acknowledgement of constraints
- Identification of type of measure
- Type of unpaid claim expense
- Type of claims
- Risks posing significant/material effect
- Methods/models clearly documented
- Rationale for use of one method
- Assumptions are appropriate
- Reliance on principal's assumptions
- Sensitivity to alternate assumptions
- Consideration of external factors
- Consideration of significant changes
- Consideration of uncertainty
- Consideration of independence/correlation between components
- Identification of relevant dates
- Changes in methods and assumptions
- Deviation from standard

Monitoring & Controlling

Activities

- Hit deadlines
- Quality control
- Budget control

Pitfalls

- Scope creep
- Expecting to catch up
- Too much/too little instruction
- Too frequent/infrequent status checks

Monitoring & Controlling – Hit Deadlines

Project Planner

Plan Actual % Complete Actual % Complete

ACTIVITY	PLAN	PLAN	ACTUAL	ACTUAL	PERCENT	PERIODS																																	
	START	DURATION	START	DURATION	COMPLETE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Kickoff Meeting	1	1	1	1	100%	█																																	
Collection and Review of Data	5	10	7	10	100%																																		
Development of Reserve Analysis Exhibits	15	7	17	5	100%																																		
Technical Review of Exhibits	22	1	22	4	100%																																		
Analysis/Selections	24	2	26		25%																																		
Peer Review of Analysis	26	1			0%																																		
Write Reserve Report	24	5			0%																																		
Peer Review of Report	29	2			0%																																		
Presentation of Final Report	31	1			0%																																		

Excel® Gantt Project Planner

Monitoring & Controlling

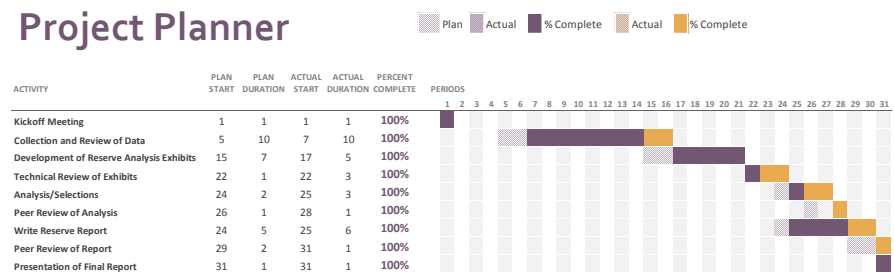
- Review expended hours
- Status reports from within project team
- Working while on the road
- Raise red flags
- Status reports to client

Closing

- Communication of final results to support staff
- Estimated time versus actual time
- Lessons learned
- Educational/mentoring opportunity
- File documentation
- File retention
- Celebrate success

Closing – Gantt Chart

Project Planner



Excel® Gantt Project Planner

Conclusion

- A Good project manager
 - Understands the issues
 - Works well in teams
 - Focuses on delivery
 - Communicates

- A Good project team
 - Right mixture of skills and experience
 - Clear, shared and understood goal
 - Clear communication of progress, issues and expectations

Thank You for Your Attention

Laura A. Maxwell, FCAS, MAAA

415-692-0938

lm Maxwell@pinnacleactuarial.com

