# **SPRING 2014**

**EXAM ERM** 

**Enterprise Risk Management** 

**CASE STUDY** 

### **ERM Case Study**

# Introduction and Recommendations

This case study presents information for five companies:

- Lyon Corporation (a holding company);
- Simple Life (a life insurance company);
- AHA Health (a health insurance company);
- Active Choice (a health insurance company); and
- Pryde P&C (a general, that is, property and casualty, insurance company).

When you register for the ERM exam, you will select from one of six reading extensions. Information presented in this case study will be used in questions appearing on the one-hour extension-specific portion of the ERM exam. Please note that for those who are pursuing an FSA, the extension selected for this exam need not match the track selected for fellowship.

You are encouraged to read this case study in conjunction with the recommended study materials. This will help you become familiar with the information that is provided in this case study and assist you in putting syllabus readings in context. The case study should be read critically, with the understanding that it is meant to represent a hypothetical company with some good policies and some flaws; it is not a representation of best practices.

All candidates are encouraged to read through the entire case study to gain an overview of the corporation, but, in particular, all candidates are responsible for the material in Section 1 of the case study.

#### In addition:

- (a) Candidates who elect the Individual Life and Annuities Extension will answer questions based on Section 3. Simple Life Insurance Company, excluding the details of Section 3.16;
- (b) Candidates who elect the Group and Health Extension will answer questions based on Section 4. Health Insurance Companies, excluding the details of Section 4.13;
- (c) Candidates who elect the General Insurance Extension will answer questions based on Section 5. Pryde Property & Casualty;
- (d) Candidates who elect the Retirement Benefits Extension will answer questions based on information about the pension plans sponsored by Simple Life and AHA Health, specifically Sections 3.16, 4.12.3, and 4.13 (but candidates should review all of Sections 3 and 4 to understand how the pension plans fit within the companies);
- (e) Candidates who elect the Investment Extension will answer questions based on investment information for Simple Life and the pension plans sponsored by Simple Life and AHA Health, specifically Sections 3.11 through 3.16 and Section 4.13 (but candidates should review all of Sections 3 and 4 to understand how the investments and the pension plans relate to the companies); and

(f) Candidates who elect the General Corporate ERM Extension will answer questions based on the information presented for all five companies in Sections 1 and 2.

It is important that you become familiar with the information presented in the case study that pertains to the extension-specific questions you will attempt in the exam. All candidates are expected to think about ERM holistically and how the issues identified in their respective extensions will affect the ERM processes of the organization as a whole.

Exam booklets will contain an exact copy of this case study. You will not be allowed to bring your copy of this case study into the exam room.

The following table of contents should assist you in locating information that is pertinent to your selected extension. As noted above, however, you are encouraged to become familiar with the entire case study.

This and the following pages contain tables for the standard normal distribution. These tables will be available with this case study at the examination and are for use in solving all problems on the examination, including those not related to the case study.

### TABLES FOR THE STANDARD NORMAL DISTRIBUTION

Values of z for selected probabilities that  $Z \le z$ .

$Pr(Z \leq z)$	0.800	0.850	0.900	0.950	0.975	0.990	0.995
Z	0.842	1.036	1.282	1.645	1.960	2.326	2.576

Table for N(x) when  $x \ge 0$ . Use interpolation with these tables. For example, N(0.6278) = N(0.62) + 0.78[N(0.63) - N(0.62)] = 0.7324 + 0.78(0.7357 - 0.7324) = 0.7350.

Х	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.5040	0.5080	0.5120	0.5160	0.5199	0.5239	0.5279	0.5319	0.5359
0.1	0.5398	0.5438	0.5478	0.5517	0.5557	0.5596	0.5636	0.5675	0.5714	0.5753
0.2	0.5793	0.5832	0.5871	0.5910	0.5948	0.5987	0.6026	0.6064	0.6103	0.6141
0.3	0.6179	0.6217	0.6255	0.6293	0.6331	0.6368	0.6406	0.6443	0.6480	0.6517
0.4	0.6554	0.6591	0.6628	0.6664	0.6700	0.6736	0.6772	0.6808	0.6844	0.6879
0.5	0.6915	0.6950	0.6985	0.7019	0.7054	0.7088	0.7123	0.7157	0.7190	0.7224
0.6	0.7257	0.7291	0.7324	0.7357	0.7389	0.7422	0.7454	0.7486	0.7517	0.7549
0.7	0.7580	0.7611	0.7642	0.7673	0.7704	0.7734	0.7764	0.7794	0.7823	0.7852
0.8	0.7881	0.7910	0.7939	0.7967	0.7995	0.8023	0.8051	0.8078	0.8106	0.8133
0.9	0.8159	0.8186	0.8212	0.8238	0.8264	0.8289	0.8315	0.8340	0.8365	0.8389
1.0	0.8413	0.8438	0.8461	0.8485	0.8508	0.8531	0.8554	0.8577	0.8599	0.8621
1.1	0.8643	0.8665	0.8686	0.8708	0.8729	0.8749	0.8770	0.8790	0.8810	0.8830
1.2	0.8849	0.8869	0.8888	0.8907	0.8925	0.8944	0.8962	0.8980	0.8997	0.9015
1.3	0.9032	0.9049	0.9066	0.9082	0.9099	0.9115	0.9131	0.9147	0.9162	0.9177
1.4	0.9192	0.9207	0.9222	0.9236	0.9251	0.9265	0.9279	0.9292	0.9306	0.9319
1.5	0.9332	0.9345	0.9357	0.9370	0.9382	0.9394	0.9406	0.9418	0.9429	0.9441
1.6	0.9452	0.9463	0.9474	0.9484	0.9495	0.9505	0.9515	0.9525	0.9535	0.9545
1.7	0.9554	0.9564	0.9573	0.9582	0.9591	0.9599	0.9608	0.9616	0.9625	0.9633
1.8	0.9641	0.9649	0.9656	0.9664	0.9671	0.9678	0.9686	0.9693	0.9699	0.9706
1.9	0.9713	0.9719	0.9726	0.9732	0.9738	0.9744	0.9750	0.9756	0.9761	0.9767
2.0	0.9772	0.9778	0.9783	0.9788	0.9793	0.9798	0.9803	0.9808	0.9812	0.9817
2.1	0.9821	0.9826	0.9830	0.9834	0.9838	0.9842	0.9846	0.9850	0.9854	0.9857
2.2	0.9861	0.9864	0.9868	0.9871	0.9875	0.9878	0.9881	0.9884	0.9887	0.9890
2.3	0.9893	0.9896	0.9898	0.9901	0.9904	0.9906	0.9909	0.9911	0.9913	0.9916
2.4	0.9918	0.9920	0.9922	0.9925	0.9927	0.9929	0.9931	0.9932	0.9934	0.9936
2.5	0.9938	0.9940	0.9941	0.9943	0.9945	0.9946	0.9948	0.9949	0.9951	0.9952
2.6	0.9953	0.9955	0.9956	0.9957	0.9959	0.9960	0.9961	0.9962	0.9963	0.9964
2.7	0.9965	0.9966	0.9967	0.9968	0.9969	0.9970	0.9971	0.9972	0.9973	0.9974
2.8	0.9974	0.9975	0.9976	0.9977	0.9977	0.9978	0.9979	0.9979	0.9980	0.9981
2.9	0.9981	0.9982	0.9982	0.9983	0.9984	0.9984	0.9985	0.9985	0.9986	0.9986
3.0	0.9987	0.9987	0.9987	0.9988	0.9988	0.9989	0.9989	0.9989	0.9990	0.9990
3.1	0.9990	0.9991	0.9991	0.9991	0.9992	0.9992	0.9992	0.9992	0.9993	0.9993
3.2	0.9993	0.9993	0.9994	0.9994	0.9994	0.9994	0.9994	0.9995	0.9995	0.9995
3.3	0.9995	0.9995	0.9995	0.9996	0.9996	0.9996	0.9996	0.9996	0.9996	0.9997
3.4	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9997	0.9998
3.5	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998	0.9998
3.6	0.9998	0.9998	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.7	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.8	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999	0.9999
3.9	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Table for N(x) when  $x \le 0$ . Use interpolation (entries are for the row value *minus* the column value). For example, N(-0.1234) = N(-0.12) - 0.34[N(-0.12) - N(-0.13)] = 0.4522 - 0.34(0.4522 - 0.4483) = 0.4509.

Z	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	0.5000	0.4960	0.4920	0.4880	0.4840	0.4801	0.4761	0.4721	0.4681	0.4641
-0.1	0.4602	0.4562	0.4522	0.4483	0.4443	0.4404	0.4364	0.4325	0.4286	0.4247
-0.2	0.4207	0.4168	0.4129	0.4090	0.4052	0.4013	0.3974	0.3936	0.3897	0.3859
-0.3	0.3821	0.3783	0.3745	0.3707	0.3669	0.3632	0.3594	0.3557	0.3520	0.3483
-0.4	0.3446	0.3409	0.3372	0.3336	0.3300	0.3264	0.3228	0.3192	0.3156	0.3121
-0.5	0.3085	0.3050	0.3015	0.2981	0.2946	0.2912	0.2877	0.2843	0.2810	0.2776
-0.6	0.2743	0.2709	0.2676	0.2643	0.2611	0.2578	0.2546	0.2514	0.2483	0.2451
-0.7	0.2420	0.2389	0.2358	0.2327	0.2296	0.2266	0.2236	0.2206	0.2177	0.2148
-0.8	0.2119	0.2090	0.2061	0.2033	0.2005	0.1977	0.1949	0.1922	0.1894	0.1867
-0.9	0.1841	0.1814	0.1788	0.1762	0.1736	0.1711	0.1685	0.1660	0.1635	0.1611
-1.0	0.1587	0.1562	0.1539	0.1515	0.1492	0.1469	0.1446	0.1423	0.1401	0.1379
-1.1	0.1357	0.1335	0.1314	0.1292	0.1271	0.1251	0.1230	0.1210	0.1190	0.1170
-1.2	0.1151	0.1131	0.1112	0.1093	0.1075	0.1056	0.1038	0.1020	0.1003	0.0985
-1.3	0.0968	0.0951	0.0934	0.0918	0.0901	0.0885	0.0869	0.0853	0.0838	0.0823
-1.4	0.0808	0.0793	0.0778	0.0764	0.0749	0.0735	0.0721	0.0708	0.0694	0.0681
-1.5	0.0668	0.0655	0.0643	0.0630	0.0618	0.0606	0.0594	0.0582	0.0571	0.0559
-1.6	0.0548	0.0537	0.0526	0.0516	0.0505	0.0495	0.0485	0.0475	0.0465	0.0455
-1.7	0.0446	0.0436	0.0427	0.0418	0.0409	0.0401	0.0392	0.0384	0.0375	0.0367
-1.8	0.0359	0.0351	0.0344	0.0336	0.0329	0.0322	0.0314	0.0307	0.0301	0.0294
-1.9	0.0287	0.0281	0.0274	0.0268	0.0262	0.0256	0.0250	0.0244	0.0239	0.0233
-2.0	0.0228	0.0222	0.0217	0.0212	0.0207	0.0202	0.0197	0.0192	0.0188	0.0183
-2.1	0.0179	0.0174	0.0170	0.0166	0.0162	0.0158	0.0154	0.0150	0.0146	0.0143
-2.2	0.0139	0.0136	0.0132	0.0129	0.0125	0.0122	0.0119	0.0116	0.0113	0.0110
-2.3	0.0107	0.0104	0.0102	0.0099	0.0096	0.0094	0.0091	0.0089	0.0087	0.0084
-2.4	0.0082	0.0080	0.0078	0.0075	0.0073	0.0071	0.0069	0.0068	0.0066	0.0064
-2.5	0.0062	0.0060	0.0059	0.0057	0.0055	0.0054	0.0052	0.0051	0.0049	0.0048
-2.6	0.0047	0.0045	0.0044	0.0043	0.0041	0.0040	0.0039	0.0038	0.0037	0.0036
-2.7	0.0035	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029	0.0028	0.0027	0.0026
-2.8	0.0026	0.0025	0.0024	0.0023	0.0023	0.0022	0.0021	0.0021	0.0020	0.0019
-2.9	0.0019	0.0018	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014
-3.0	0.0013	0.0013	0.0013	0.0012	0.0012	0.0011	0.0011	0.0011	0.0010	0.0010
-3.1	0.0010	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007
-3.2	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0005	0.0005	0.0005
-3.3	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0003
-3.4	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002
-3.5	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
-3.6	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
-3.7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
-3.8	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
-3.9	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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# 1. Lyon Corporation

### 1.1. Overview

Lyon Corporation is a diversified U.S. public holding company with interests in financial services companies.

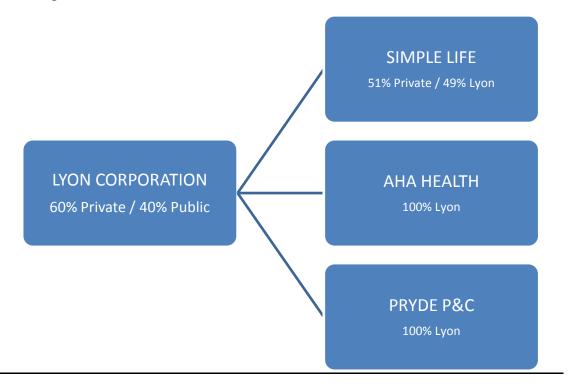
### 1.2. Mission Statement

Lyon Corporation is committed to enhancing shareholder value through the active management of long-term investments and responsible corporate citizenship. It is of the view that these objectives are best achieved and risks minimized through geographic diversification.

Lyon Corporation believes that the future belongs to corporations having a well-defined strategic vision anchored in strong core values. These principles guide the Corporation in all of its decisions.

### 1.3. Structure

Lyon Corporation is a public company (LCC: NYE and TSX) with a significant shareholder, Lyon Family, which owns about 60% of the outstanding shares. The holding company has the following structure:



Percentages denote equity interest and voting rights.

# 1.4. Simple Life

The Simple Life Insurance Company (SLIC) is owned by its Chairman, President and CEO, R. Tomas Lyon III, who owns 51% of the voting shares, and Lyon Corporation, which owns 49% of the voting shares. SLIC is a U.S. life insurance company located in Boston, Massachusetts with four lines of business: Universal Life (UL); Level Premium Term Insurance with three available level term periods: 10, 20 and 30 year; Single Premium Immediate Annuities (SPIA); and Variable Annuities with a Return of Premium (ROP) Guaranteed Minimum Death Benefit (GMDB) and a Guaranteed Minimum Accumulation Benefit (GMAB). SLIC issues its products only in the United States.

SLIC provides basic life, health and disability benefits to its employees while they are employed by the company. These benefits do not continue after employees leave the company.

SLIC sponsors a company-paid final-average-earnings defined benefit pension plan for its employees.

### 1.5. AHA Health

AHA Health Insurance Company (AHA) is a large national insurer located in California with its home office in Los Angeles. AHA is wholly owned by Lyon Corporation. AHA sells individual and group health insurance and has a small block of long term care (LTC) business.

AHA Health provides basic life, health and disability benefits to its employees while they are employed by the company. These benefits do not continue after employees leave the company.

AHA Health sponsors a company-paid final-average-earnings defined benefit pension plan for its employees.

# 1.6. Pryde P&C

Pryde P&C is an Omaha, Nebraska- based U.S. writer with commercial and personal lines products that target niche market customers. The split between commercial and personal lines is 66.7% / 33.3% respectively. Pryde is licensed in all 50 states. Its products are sold through a unified sales force, led by sales directors responsible for selecting the product, managing the agency delivery system and serving the business in their territory. Pryde P&C is wholly owned by Lyon Corporation.

Pryde P&C provides basic life, health and disability benefits to its employees while they are employed by the company. These benefits do not continue after employees leave the company.

Pryde P&C does not sponsor any pension or savings plans for its employees.

# 1.7. Lyon Board of Directors

The Lyon Board consists of 12 members, 4 of whom directly or indirectly represent the Lyon family interest. One of these four also serves as the Board Chairman of SLIC. There are six outside board members, four of whom are Chief Executive Officers or Board Chairmen in leading public companies in the United States or Canada. The other two board members are the Board Chairmen of AHA Health and Pryde P&C.

The following are the directors:

George Bell is the Chief Executive Officer of Rocket Aerospace Inc., the largest manufacturer of civil aircraft in the world.

Sarah Hanrahan is the Chief Executive Officer of Transworld Optics, a leading edge and global company in manufacturing of fiber optics.

Andrew Lyon is the Deputy Chairman of the Board and Co-Chief Executive Officer of Lyon Corporation.

Patrick Lyon is Co-Chief Executive Officer of Lyon Corporation.

R. Tomas Lyon III is Founder and Chairman of the Board of Lyon Corporation, and Chairman of the Executive Committee.

Jeremy Orr is a retired CEO and currently Chairman of Canada Aqua limited, the largest supplier of natural water in the Canadian marketplace.

Albert Montgomery is the Chairman, President and Chief Executive Officer of Northern Oil Sands Limited, one of Canada's largest oil sands company.

John Ritchie is a retired lawyer and a senior advisor to Henderson & Henderson law firm.

Donald Rae is a retired businessperson, formerly CEO and Chairman of Rae Communications,

R. Tomas Lyon IV has been a director of Lyon Corporation since 1996. He was an insurance broker and President of Risky Life Insurance Company.

Dr. Jerry Graham is the Chairman and CEO of AHA Health.

Robert James is the Chairman and CEO of Pryde Property & Casualty Company.

### 1.7.1. Mandate of the Board

The mandate of the Board, which it discharges directly or through one of the five Board Committees, is to supervise the management of the business and affairs of the Corporation. Responsibilities include approval of strategic goals and objectives, review of operations, disclosure and communication policies, oversight of financial reporting and other internal

controls, corporate governance, Director orientation and education, senior management compensation and oversight, and Director nomination, compensation and assessment.

### 1.7.2. Executive Committee

The Executive Committee has and may exercise all or any of the powers vested in and exercisable by the Board, except approval of the annual strategic plan.

### 1.7.3. Audit Committee

The primary mandate of the Audit Committee is to review the financial statements of the Corporation and public disclosure documents containing financial information and to report on such review to the Board, to be satisfied that adequate procedures are in place for the review of the Corporation's public disclosure documents that contain financial information, to oversee the work and review the independence of the external auditors, and to review any evaluation of the Corporation's internal control over financial reporting.

### 1.7.4. Compensation Committee

The primary mandate of the Compensation Committee is to approve compensation policies and guidelines for employees of the Corporation, to approve compensation arrangements for executives of the Corporation, to recommend to the Board compensation arrangements for the Directors and for the Co-CEOs, to oversee the management of incentive compensation plans and equity compensation plans, and to review succession plans for senior management.

### 1.7.5. Related Party and Conduct Review Committee

The primary mandate of the Related Party and Conduct Review Committee is to recommend to the Board procedures for the consideration and approval of transactions with related parties of the Corporation and to review and, if deemed appropriate, to approve such transactions.

### 1.7.6. Governance and Nominating Committee

The primary mandate of the Governance and Nominating Committee is to oversee the Corporation's approach to governance issues, to recommend to the Board corporate governance practices consistent with the Corporation's commitment to high standards of corporate governance, to assess the effectiveness of the Board of Directors, of Committees of the Board and of the Directors, and to recommend to the Board candidates for election as Directors and for appointment to Board Committees.

### 1.7.7. Summary of Committee Memberships

The following table (where C = chairperson and M = member) summarizes committee memberships for Lyon's Board of Directors:

	Executive	Audit	Compensation	Related Party and Conduct Review	Governance and Nominating
R. Tomas Lyon III	С				С
R. Tomas Lyon IV	M				М
Patrick Lyon	M			С	
Jeremy Orr	M		M		М
John Ritchie	M	М			M
George Bell		C		M	
Sarah Hanrahan		М	M		
Albert Montgomery		М		М	
Andrew Lyon			С		М
Donald Rae		•	M	M	

#### 1.7.8. Code of Conduct and Business Ethics

The Board of Directors has adopted a Code of Business Conduct and Ethics to promote and maintain a culture of integrity throughout the Corporation. The Code is applicable to Directors, officers and employees of the Corporation.

### 1.8. Credit Rating

Lyon Corporation has a rating of A- (Super) from Kelly Ratings. The rating reflects the sufficient capital position of SLIC and Pryde's improved financial results and niche presence.

# 1.9. Oversight of Lyon Companies

Lyon Corporation, SLIC, AHA Health and Pryde P&C are all managed by an executive team (comprising the CEO, CFO and COO and 4–6 other executives). Each CEO reports directly to his respective board. SLIC, AHA Health and Pryde P&C each have an independent Board of Directors.

The remainder of this document presents information about Lyon Corporation and the companies in which Lyon Corporation has a financial interest.

# 2. Lyon Corporation (Corporate) Functions and Oversight

Lyon Corporation is in the process of developing a corporate level ERM function. Operational information provided to Corporate from the affiliated companies (SLIC, AHA, and Pryde) operations has been limited up until this time. However, the ERM department recently asked each affiliate to provide a summary description of its company, including product lines, outside relationships, risk assessments and concerns, and current business issues.

The documents that follow represent the first submissions from SLIC, AHA, and Pryde in response to Corporate's request.

# 2.1. SLIC Report to Corporate

### 2.1.1. SLIC -- Company Summary

The Simple Life Insurance Company (SLIC) is 51% owned by R. Tomas Lyon III and 49% owned by Lyon Corporation. R. Tomas Lyon III serves as Chairman of the Board, President and CEO.

SLIC is a life insurance company with four lines of business: Term Life, Universal Life, Single Premium Immediate Annuities, and Variable Annuities.

### 2.1.1.1. Capitalization and Investments

The company operates without any long-term debt. The company strives to maintain a strong statutory risk based capital (RBC) ratio and to have an actual to required economic capital ratio of 125% or greater. Any surplus in excess of the larger of 400% of RBC and 125% of required economic capital is distributed to Lyon Corporation through a dividend annually at the end of the first quarter based on the year-end balance sheet.

The company's general account is invested primarily in fixed-income assets. Variable annuity investment accounts are held in a separate (segregated) account and are managed by a third-party investment advisor.

Within the general account, there are separate investment portfolios for each of the four main product lines. The SLIC surplus (net equity) is allocated to the four portfolios.

### 2.1.1.2. Risk Policies

**Credit Risk:** Fixed-income securities in the general account have exposure limits at individual obligor (issuer) and sector levels. For each portfolio, there are weighted average credit quality targets.

**Market Risk**: Semi-annually within the Term, UL and SPIA lines of business, the company measures the Macaulay duration of the assets and liabilities. If the asset and liability durations are further apart than 0.5, the asset portfolio is rebalanced such that its new Macaulay duration equals that of the liabilities.

The VA hedging program uses a dynamic approach updated for market factors monthly and for inforce changes quarterly. The key risk measures are delta and rho. The VA liability delta and

rho measures are estimated from an actuarial projection model using a home-grown computing platform.

Liquidity Risk: The liquidity policy requires SLIC to hold sufficient liquid assets to meet expected demands for cash in a unique liquidity stress-test scenario. The scenario focuses on a reputational liquidity crisis basis where markets continue to operate normally and the liquidity crunch affects only the company. The liquidity stress test anticipates situations where the company's ability to sell assets to meet cash needs from its liability products is hindered by the market taking advantage of the company during the crisis. In addition, testing periodically considers a systemic stress scenario where the entire market is not able to sell assets at a reasonable value. However, SLIC's liquidity policy does not require it to hold sufficient liquid assets to be able to meet cash demands in such a scenario, since it expects regulatory relief in such a systemic crisis.

**Operational Risk:** The SLIC Chief Risk Officer will be responsible for collecting and disseminating risk information. A report will be prepared monthly and distributed to executive management.

### 2.1.1.3. SLIC Risk Management Committee

The committee meets on a regular quarterly basis during the year. Meetings focus on reviewing internal risk reports and interviews with key employees in finance, systems, and audit.

The committee recently recommended the hiring of a Chief Risk Officer (CRO), who will create and lead an independent Enterprise Risk Management (ERM) department. The CRO will be responsible for developing and implementing a comprehensive company-wide ERM program and serve as the risk liaison across various business segments to address significant emerging concerns.

It was determined by the Board that the Risk Management Committee would be redundant once the CRO was in place and had sufficient experience. Thus, the Risk Management Committee will be disbanded on the date the CRO becomes an officer of SLIC.

### 2.1.2. SLIC – Initial Product Report

#### 2.1.2.1. Level Premium Term Insurance

**Product Description**: The term life insurance product is payable on death up to maturity of the contract. It has guaranteed level premiums and no cash value. Three term periods are available: 10, 20 and 30 year. The product is non-convertible.

**Market Position**: Sales have been extraordinary, in part due to competitive pricing, 100% first year sales compensation, and a strong advertising campaign. The company's nearest competitor has premiums more than 20% higher and pays sales commission of 35% of premium for the first three years.

**Current Issues**: SLIC is considering reinsurance due to the high volume and high face amounts requested from its clients, but the reinsurance quotes obtained would make product profitability unacceptable.

**Experience:** Recent mortality experience has been poor but the company has taken steps to reduce anti-selection. Product lapse rates to date have been consistently under 2%.

### 2.1.2.2. Variable Annuity

**Product Description**: The Variable Annuity with a ROP GMDB has a GMAB rider with a ten-year maturity. It offers a collection of eight proprietary mutual fund choices (seven domestic and one foreign) and a fixed fund invested in the general account. The GMAB rider benefit is to increase the account value to an amount equal to the initial deposit amount at rider maturity, if the account value at the end of 10 years is less than the initial deposit. No deposits are permitted after issue.

**Market Position**: Sales are significantly lower compared to prior years, probably attributable to other competitors offering a wider range of funds and rider options. To avoid the lengthy and expensive market research and product development cycles, the Company has decided to be a "fast-follower" and copy successful designs it sees in the market place.

Over the prior year, National Bank has begun selling a product to compete with the GMAB written by the insurance industry. The product is a rider on an S&P 500 mutual fund that guarantees return of principle for a 2% annual fee applied to the fund value. The rider has no specific death benefit, but has no surrender charges and allows a reset on each anniversary of the deposit. National Bank has numerous branches throughout the country and seems to have a strong marketing department.

**Proposed Product Improvements**: SLIC plans to add new fund families over the next six months. The new fund options will be available on existing and new VA GMAB contracts as well as on new VA contracts with the new guaranteed benefit riders described below.

SLIC is considering an enhanced product called VA Plus, adding availability of partial withdrawals, an enhanced Guaranteed Minimum Death Benefit (GMDB) rider, and a Guaranteed Minimum Income Benefit (GMIB) rider. These riders are under development and are expected to be available in nine months.

SLIC will be fast-tracking the product development and implementation process, resulting in a very aggressive time schedule. As part of the implementation process, the administrative system needs additional programming to handle an increased slate of fund and rider offerings.

### 2.1.2.3. Universal Life

**Product Description**: The universal life product is an adjustable premium product with a level face amount for the life of the contract. The policy will terminate if the account value reaches zero. The credited rate on the accumulation fund is the greater of the underlying portfolio rate less 2% and the five year government bond rate plus 0.25%, but never less than 3%.

**Market Position**: Launch sales have been much lower than expected, but the company is anticipating that the 3% floor on investment returns will become more attractive and result in

higher future sales. For the UL product, like the VA, the Company has decided that "fast-follower" is the preferred product development method for the near future.

**Current Issues**: The administrative system needs additional programming to handle some product features that are now available to the policyholder. To date these features selections have been tracked through electronic notes in the policy file.

Three of the Company's competitors in the UL market have recently formed an administrative services only company, called UL Admin Co, to administer their universal life contracts. UL Admin Co performs all of the UL administrative tasks for the three companies, such as policy administration, valuation, and cash flow and reserve projections for planning and risk purposes. In recognition of the expense savings achieved, the three companies have given an extracontractual benefit to their policyholders by reducing their annual policy maintenance charge.

**Reinsurance**: Conservative Re reinsures the mortality risk on a 50% coinsurance basis at the same price as SLIC's COI charges with unlimited capacity. Conservative Re is the Company's preferred reinsurance partner as they put no capacity limits on any of their treaties with all of their clients. Conservative Re also provides excellent off-site educational sessions in exotic locations that help meet the Company's employees continuing education requirements. SLIC considers Conservative Re to be an important strategic partner.

**Experience**: Policy issuance as a percentage of applications has been much lower than expected. Lapse rates in the first year are lower than anticipated in pricing. Recent mortality experience has been approximately equal to expected mortality, but SLIC has little exposure to date.

Due to the current low level of interest rates, the Company has revised the investment plan to be a mix of ten-year BBB corporate debt, high yielding sovereign paper of mixed maturity periods, and some exclusive opportunities in the private equity area.

**Proposed New Product:** SLIC is considering adding an Indexed UL product, a hot product in the current market. An Indexed UL product is a fixed UL product with an indexed account option. The interest credits on the indexed account are based on the greater of the return on an index, such as the S&P 500, or zero. It is attractive to policyholders who want to participate in the future price appreciation in stocks in the S&P 500 without the risk of negative returns.

For the basic product SLIC would enter a swap agreement to exchange a specified investment income to a return on an S&P index with a zero floor and a specified cap, which would allow SLIC effectively to transfer out the embedded market risk. More sophisticated Indexed UL products could be offered in the future with multiple indexed accounts based on different indices or different time periods of index growth and indexed interest crediting.

To facilitate pricing and implementation, the features for the basic product are proposed to be similar to the current UL product with some exceptions. The product design actuaries have proposed that the UL investment portfolio support both the UL and the new Indexed UL

products. The indexed interest would be hedged by purchasing the equivalent swap on the underlying index, initially the S&P 500.

### 2.1.2.4. Single Premium Immediate Annuity

**Product Description**: The product offered is a straight life annuity issued to ages 65 and above, with no death benefit.

**Experience**: Recent mortality experience has been approximately equal to expected but mortality improvement seems to be higher than expected.

Market Position: Recent sales have been slow but have been strengthening recently as interest rates have fallen. The product is selling well, but decreasing interest rates are a matter of concern. Traditionally, assets supporting this block have been investments in high quality long term corporate bonds and treasuries. However, in response to the recent economic environment and the uptick in mortality improvement, higher yielding exotic investments have been used recently to help meet the desired profit margin. These new investments include such assets as real estate, domestic private equity and emerging markets common equity.

### 2.2. AHA Report to Corporate

Lyon Corporation management has little experience in health insurance. As result, they have been content to allow the AHA management a great deal of autonomy. This arrangement has worked well in the past, and AHA was reluctant to provide a very thorough report to Lyon.

### 2.2.1. AHA – Company Summary

AHA Health Insurance Company (AHA) is a large national insurer located in California with its home office in Los Angeles. AHA is wholly owned by Lyon Corporation. AHA is an insurance company and files a Blue Blank with the National Association of Insurance Commissioners (NAIC).

AHA sells individual and group insurance in California and 14 other states. It is in both the small and large group markets in all states. In addition, AHA has a small block of long term care (LTC) business with policyholders located all over the country.

### 2.2.1.1. Operations

AHA negotiates with physician and hospital providers in each state in which it is licensed and continually monitors these provider networks. It has contracted with Networks 'R Us to use its provider networks when members need services outside of states in which it is licensed.

AHA has its own centralized medical management staff that administers its medical management policies consistently in all states in which it is licensed. AHA's staff continually reviews and revises policies to keep costs down and to keep up with the latest developments. Its vendors, Networks 'R Us, Carefree Rx, and Painless Dental, work with AHA to make sure their medical management policies do not conflict with those of AHA.

AHA has a claims system developed and maintained by a well-respected national vendor. AHA maintains a close relationship with this vendor to make sure that the system meets all of its needs.

AHA is diligent in collecting data. Their information is categorized in a number of different ways that allows all parts of the company to use the same database. It is easy for AHA to do ad hoc financial analyses.

### 2.2.1.2. Risk Management

AHA management believes the company can prosper by being aggressive and willing to take risks. The company does not have a named CRO, but has a risk committee with limited scope and authority. Various senior managers take on a CRO role as needed.

AHA's incentive compensation plan criteria include membership growth, profitability, and quality of care. AHA's plan covers management staff from top management to frontline management. The goal is to have all management focused on the key drivers of success.

### 2.2.1.3. Healthcare Reform & Other Regulatory Issues

AHA's staff have been following healthcare reform since its inception and have developed and updated detailed implementation plans. These include timelines and requirements for additional staff. The new staff members need to be hired in time to get at least 6 months of training. At this time, the funds for the new staff have not been approved so hiring has been put on hold.

AHA is developing its strategy for the period after full implementation of the Affordable Care Act in 2014. The company's claim experience varies dramatically by state and market (Individual, Small Group, and Large Group). AHA must decide whether to pull out of certain markets, stay in the market and sell out of the Exchange, or remain in the market and sell through the Exchange.

#### 2.2.1.4. Other Initiatives

AHA management is looking into purchasing Active Choice, a small local health insurance company domiciled in New York. Active Choice is an HMO and files an Orange Blank with the NAIC. The driving force behind this acquisition is to help AHA enter a new market without having to build a lot of infrastructure. Initially, the Active Choice management would remain in place to run the company and integration would proceed over several years. AHA management is putting together a due diligence team including staff from AHA finance, actuarial, marketing, and medical management.

### 2.2.2. AHA – Initial Product Report

**Product Summary**: AHA's individual and group health policies include comprehensive major medical coverage of hospital services, physician services, and prescription drugs. The plans have an average deductible under \$2,500 in all markets. In addition, the group policies include dental coverage. Dental is offered as a rider to the medical policies.

AHA negotiates physician and hospital contracts in each state in which it is licensed and has contracted with a provider network for services outside of states in which it is licensed. In addition, AHA has contracted with a nationwide drug plan to manage its prescription drug coverage and a dental administrator to manage its dental plans.

LTC: AHA is interested in hedging the risk arising from the small LTC block. A team from AHA's finance and actuarial areas plus the corporate finance and investment areas are meeting to determine next steps.

# 2.3. Pryde Report to Corporate

# 2.3.1. Pryde -- Company Summary

Pryde is an Omaha, Nebraska-based U.S. writer with commercial and personal lines products that target niche market customers. The split between commercial and personal lines is 66.7% / 33.3% respectively. Pryde is licensed in all 50 states and its products are sold through a unified sales force.

Pryde's business is spread throughout the United States, with its largest concentration in California (17% of premium), followed by Texas, Georgia, Florida, and Mississippi (each with 5% - 6% of premium).

### 2.3.1.1. Exited Markets

Beginning in 2007, Pryde's previous management team followed a growth and acquisition strategy and decentralization of its operations, which led to rate inadequacy and significant adverse loss reserve development. Pryde experimented with a specialty market, which included non-standard automobile, recreational vehicle and specialty homeowners business, but subsequently exited the specialty market because it was not consistent with Pryde's targeted customer groups.

As a result of poor underwriting performance in the specialty market, Pryde experienced a significant reduction in its capital and surplus position. The costs associated with buying and subsequently selling or discontinuing those specialty businesses further contributed to the reduction. Exiting the specialty markets resulted in significant improvement in earnings in 2012, driven by an improvement in underwriting results. However, Pryde has continued to be challenged by significant adverse loss reserve development in recent years for both non-continuing and continuing lines of business.

### 2.3.1.2. Risk and Capital Analysis

Pryde has approximately \$1.0 billion in assets and \$287 million in capital and surplus. Pryde retained Hawthorne Consulting in 2012 to aid the company in developing a "risk and capital" model to aid management in gauging the adequacy of overall capitalization of the company and allocating capital to lines of business.

Hawthorne recommended using a risk adjusted return on required capital (RAROC) approach and used VaR and TVaR to assess capital needs. Overall, Hawthorne's work showed that Pryde's current capital and surplus exceed the amount needed to support its businesses on a risk-adjusted basis.

### 2.3.2. Pryde – Initial Product Report

**Commercial**: The commercial business unit focuses on three defined groups of customers: School Districts, Municipalities and Non-Profit Social Clubs. 85% of the commercial business is with School Districts

The three major lines of business written are:

- Commercial Multi-Peril ("CMP")
- Workers Compensation
- Commercial Auto

**Personal**: The personal lines business unit currently focuses on the major market segment of individuals affiliated with School Districts. Homeowners and Standard Automobile are the major lines of business within the personal lines segment.

**Exposures and Reinsurance**: Pryde's primary catastrophe exposure stems from hurricanes and earthquakes. The company's net probable maximum losses stemming from a combined 250-year hurricane and 250-year earthquake represent approximately 5% of capital and surplus.

Pryde maintains quota-share reinsurance and excess-of-loss reinsurance for property risks, and a working layer treaty reinsurance plus an aggregate excess of loss treaty for casualty risks.

# **2.4.** Corporate Financial Statements

One goal of the Lyon Corporation Comptrollers Department is the development of appropriate consolidated statements for Lyon Corporation, with consistent treatment of assets and liabilities for each of the subsidiaries. The current financial statements for each of the subsidiaries are included below.

2.4.1. SLIC Balance Sheets

SLIC balance sheets (\$ million) as of Dec 31, 2013:

**SLIC Statutory Balance Sheet** 

	SPIA	Term	UL	VA	Total
Cash and Investments (Book	1,820	930	1,840	150	4,740
Value)					
Deferred Tax Asset	=	-	-	-	=
Separate Account Assets	-	-	-	620	620
Total Assets	1,820	930	1,840	770	5,360
Best Estimate Liability	1,640	470	1,400	-20	3,490
Implicit Margin	-70	210	270	30	440
Statutory Reserve	1,570	680	1,670	10	3,930
Deferred Tax Liability	-	-	-	-	-
Separate Account Liabilities	-	-	-	620	620
Total Liabilities	1,570	680	1,670	630	4,550
Surplus	250	250	170	140	810
<u>.</u>					
Total Liabilities and Surplus	1,820	930	1,840	770	5,360
Risk Based Capital	60	60	40	30	170
Diversification Benefit	-	-	-	-	-20
Actual to Required Capital	417%	417%	425%	467%	476%

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	SPIA	Term	UL	VA	Total
Cash and Investments	1,810	940	1,830	150	4,730
(Market Value)					
Deferred Tax Asset	50	-	-	-	50
Separate Account Assets	-	-	-	620	620
Total Assets	1,860	940	1,830	770	5,400
Best Estimate Liability	1,640	470	1,400	-20	3,490
Explicit Margin	70	70	90	-	230
Economic Reserve	1,710	540	1,490	-20	3,720
Deferred Tax Liability	-	50	60	10	120
Separate Account Liabilities	-	-	-	620	620
Total Liabilities	1,710	590	1,550	610	4,460
Equity	150	350	280	160	940
Total Liabilities and Surplus	1,860	940	1,830	770	5,400
Economic Capital	180	230	100	260	630
Requirement					
Diversification Benefit	-	-	-	-	-140
Actual to Required Capital	83%	152%	280%	62%	149%

2.4.2. SLIC Income Statement

SLIC income statement (\$ millions) for the year ended December 31, 2013:

Statutory Income Statement	SPIA	Term	UL	VA	Total
Direct Premium	167.0	125.0	150.0	50.0	492.0
Ceded Premium	-	-	(12.5)	-	(12.5)
Net Investment Income	89.4	49.8	89.1	7.4	235.7
Net Revenues	256.4	174.8	226.6	57.4	715.2
Death Benefits (Net of Reinsurance)	-	35.0	25.0	1.0	60.0
Annuity Benefits	98.0	-	-	-	98.0
Surrender Benefits	-	-	33.0	4.0	38.0
Increase in Reserves	123.8	125.0	97.0	5.0	350.8
Commissions	8.4	20.0	20.0	2.5	50.9
General Expenses	1.7	7.5	12.0	6.3	27.5
Taxes, Licenses and Fees	0.8	1.9	3.0	0.3	6.0
Net Transfers to/(from) Separate Account	-	-	-	25.6	25.6
Net Benefits, Expenses and Deductions	232.7	189.4	190.0	44.7	656.8
Net Gain from Operations	23.7	(14.6)	36.6	12.7	58.4
Federal Income Tax	7.6	(4.7)	11.7	4.1	18.7
Net Realized Capital Gains (Losses)	(0.2)	(0.6)	(0.3)	(0.1)	(1.2)
Net Income	15.9	(10.5)	24.6	8.5	38.5

# 2.4.3. AHA Financial Statements

# AHA Balance Sheet (in \$millions) 12/31/2013

		Amount
1.	Cash and invested assets	\$2,074.8
2.	Accident and health premiums due and unpaid	\$86.6
3.	Amounts recoverable from reinsurers	\$0.0
4.	Net credit for ceded reinsurance	\$0.0
5.	All other admitted assets	\$96.2
6.	Total assets	\$2,257.6
7.	Claims unpaid	\$335.0
8.	Accrued medical incentive pool and bonus payments	\$0.8
9.	Premiums received in advance	\$417.6
10.	Funds held under reinsurance treaties	\$0.0
11.	Reinsurance in unauthorized companies	\$0.0
12.	All other liabilities (balance)	\$64.7
13.	Total liabilities	\$818.1
14.	Total capital and surplus (line 6 minus line 13)	\$1,439.5
15.	Total liabilities, capital and surplus (line 13 + line 14)	\$2,257.6

### AHA Income Statement, in \$millions December 31, 2013 (Prior to Minimum Loss Ratio Rebate Calculation)

### **Comprehensive Hospital and Medical**

	<u> </u>			
	ا من باد استان ب	0	Long Term	Tatal
	<u>Individual</u>	<u>Group</u>	<u>Care</u>	<u>Total</u>
1. Net Premiums	\$2,176.2	\$1,674.0	\$41.8	\$3,891.9
Net Investment Income	\$17.4	\$13.4	\$10.4	\$41.2
3. Total Revenue (1 + 2)	\$2,193.6	\$1,687.4	\$52.2	\$3,933.2
4. Accident & Health Benefits	\$1,630.1	\$1,304.1	\$13.0	\$2,947.2
5. Increase in Aggregate Reserves	\$32.6	\$25.1	\$8.4	\$66.1
6. Total (4 + 5)	\$1,662.7	\$1,329.2	\$21.4	\$3,013.3
7. Commissions	\$108.8	\$83.7	\$3.3	\$195.8
8. General Insurance Expenses	\$176.3	\$135.6	\$3.4	\$315.2
9. Insurance Taxes, Licenses and Fees	\$65.3	\$50.2	\$1.3	\$116.8
10. Total Expenses (7 + 8 + 9)	\$350.4	\$269.5	\$8.0	\$627.8
11. Total Benefits and Expenses (6 + 10)	\$2,013.1	\$1,598.7	\$29.4	\$3,641.2
12. Net Gain From Operations Before FIT (3 less 11)	\$180.5	\$88.7	\$22.9	\$292.0
13. Federal Income Taxes	\$63.2	\$31.0	\$8.0	\$102.2
14. Net Gain From Operations After FIT (12 less 13)	\$117.3	\$57.6	\$14.9	\$189.8

# 2.4.4. Pryde Balance Sheet

# (\$ millions)

ADMITTED ASSETS	12/31/2013	12/31/2012
Bonds	521.896	388.171
Preferred stock	23.475	21.205
Common stock	9.938	6.870
Cash & short-term invest	38.759	54.641
Other non-affil inv asset	10.846	10.220
Investments in affiliates	28.663	23.397
Total invested assets	633.577	504.504
Premium balances	239.342	148.913
Accrued interest	6.459	4.920
All other assets	152.628	73.999
Total assets	1,032.006	732.337
LIABILITIES & SURPLUS	12/31/2013	12/31/2012
Loss & LAE	318.776	228.254
reserves		
Unearned premiums	226.121	191.026
Conditional reserve funds	0.202	0.039
All other liabilities	200.090	49.614
Total liabilities	745.190	468.933
Total Policyholder Surplus	286.816	263.404

# 2.5. Rating Agency Report

Lyon Corporation is preparing for a rating review by Kelly Rating Agency, an internationally recognized rating agency. Kelly has previously focused on its ratings of stand-alone insurance companies, such as SLIC and Pryde, but beginning last year required that insurance groups be rated at the corporate level. During its review last year, Kelly identified several issues that it expects Lyon to address before the next review, scheduled for later this year. Correspondence related to the prior review and Kelly's most recent rating report are provided starting on the following page.

# Kelly Ratings & Analysis - When it comes to ratings, clearly you need Kelly

1 Kelly Drive, Capital City ph 123/555-6500

February 10, 2014 R. Tomas Lyon III Lyon Corporation

Dear Mr. Lyon:

It is time once again for Kelly Ratings & Analysis' annual review of Lyon Corporation. I will call you next week to set up a date. Ideally, Paula Silver, Director of our Financial Services Practice, and I would like to meet with Lyon Corporation sometime in early April. As in past years, we will come to your offices for a day of meetings with your senior management team. Count on the presentation from Lyon Corporation taking the first half of the meeting; the second half will be a free form Q&A with your management. We can finalize the agenda during next week's call.

Attached is Kelly's rating rationale from last year. Due to last year being the initial group-level review and the lack of available group financial data, the rationale was based primarily on our qualitative assessment of the group and its component companies. Please look through this document and make note of any aspects that you wish to discuss. In addition, we will need your 2013 financial information; we hope that you will be able to provide more robust data than what we received last year. I would like to receive that in advance of our meeting.

I want to remind you that, since last year was the first year for a group-level rating review, our Kelly Financial Wherewithal Rating<sup>TM</sup> (commonly known as the "Kelly Rating") was not publicly disclosed. It was intended to help you understand our group assessment criteria and how Lyon Corporation would be evaluated, so you would have an opportunity to improve any deficient processes before this year's public rating. The rating determined for Lyon Corporation last year was **A**-.

Evaluating implementation and effectiveness of insurers' ERM processes has become an increasingly important part of Kelly's evaluation and rating of insurer's financial strength. During this year's annual review, we would also like to start having more discussions with Lyon Corporation management on several aspects related to the risk management processes, such as ERM culture and policies, risk governance, risk control and mitigation processes, strategic risk management, as well as management of specific risks (e.g., ALM, credit risk, liquidity risk, operational risk).

Sincerely,

Otto Gold
Director, Financial Services Rating Bureau

### LYON CORPORATION

# 2013 Kelly Financial Wherewithal Rating<sup>™</sup> - Group Level

Based on our opinion of the company's financial strength, it is assigned a **Kelly Financial Wherewithal Rating**<sup>TM</sup> **of A-**(Super). The company's Financial Size Category is Class VIII.

### **Rating Rationale**

Rating Rationale: The rating for Lyon Corporation reflects the company's strong capital position, reasonable operating performance and the long-term stability of its management. However, profitability has not been as strong as its rating peers, and Lyon Corporation will continue to face challenges as a public company.

### **Rating History**

No history - Initial Group Rating

### **Business Review**

Lyon Corporation began operations in 1904. For most of its history, it has been controlled by the Lyon family. R. Tomas Lyon III is its fourth generation leader.

Lyon Corporation began as a life insurance company selling innovative term life insurance at very aggressive rates. That continues to be a hallmark of the company today.

The company began to broaden its scope in the 1990's by demutualizing and offering public stock. The Lyon Corporation remains 60% privately held by the Lyon Family. A holding company structure was put in place. The original life insurance company became Simple Life (SLIC), owned 51% by R. Tomas Lyon III and 49% by Lyon Corporation. The Corporation also acquired a health insurance company, AHA Health, and a property and casualty company, Pryde P&C, early in 2000. These two subsidiaries are owned 100% by Lyon Corporation.

SLIC has significantly increased its product offerings and now has a growing SPIA line of business, as well as universal life and variable annuities. However, all of the SLIC products face competitive pressures and likely will require updated features and pricing.

AHA has provided solid results and takes a proactive approach to the health market. Pryde has been a less positive addition to the Lyon Corporation, showing mixed results in prior years, particularly when Pryde management experimented with several specialty lines of business in the early 2000's. Losses eroded Pryde's capital position, but recent changes seem to be putting the subsidiary back on track.

Investment operations have not performed especially well on a risk-adjusted basis and there is some concern if the low interest rate environment persists.

After several years of sluggish growth, Lyon Corporation has set some very aggressive growth targets for the future. The company appears to have the capital to fund this growth internally; however the plan to actually achieve sales at these levels remains unclear.

### **Earnings**

Lyon Corporation's earnings have benefited over the years from solid product profitability. We expect this source of earnings to decline in the future as the company attempts to grow its business in a very competitive market. The current low interest rate environment will also continue to put pressure on earnings.

### Capitalization

Capital and surplus within the subsidiaries is quite strong, totaling \$2.5 billion. It appears that the company's excess capital could be deployed more effectively to increase earnings and returns for shareholders. The company's growth strategy may be a means to accomplish this, if implemented appropriately.

However, we note that Lyon Corporation has not made any significant efforts to measure capital requirements on a risk-adjusted basis. Therefore, it is difficult for Lyon Corporation to evaluate the appropriateness of its growth strategy or other potential strategic initiatives. We believe that this needs to be a future focus for corporate management if Lyon Corporation wishes to demonstrate that it is being run effectively.

We also note that the company continues to operate without any long-term debt. While this capital structure can be appropriate for a corporation, in our opinion, Lyon Corporation has not done any evaluation to justify that this is the best structure for the company.

### **Investments and Liquidity**

Lyon Corporation maintains a conservative investment portfolio, based primarily on high-quality investment grade corporates and Treasuries. As a result, default experience in the fixed income portfolio has been very good and can be viewed as much better than insurance industry averages over the most recent years. The portfolio has also provided sufficient liquidity.

We understand that Lyon Corporation is exploring the possibility of moving to more aggressive portfolios for select lines of business by adding high yield and BBB debt securities, as well as equities. This is an area that Kelly will continue to monitor.

#### Officers

Chairman of the Board (Lyon Corporation); Chairman, President and CEO (SLIC) -- R. Tomas Lyon III

Deputy Chairman of the Board, Co-CEO (Lyon Corporation) – Andrew Lyon Co-CEO (Lyon Corporation) – Patrick Lyon Chairman and CEO (AHA Health) – Dr. Jerry Graham Chairman and CEO (Pryde) – Robert James

# 2.6. Corporate ERM Department

In reaction to rating agency concerns and regulatory expectations, Lyon recently announced the creation of a formal Corporate ERM Department. The appointment of a Chief Risk Officer (CRO) is expected shortly.

The objectives of the Corporate ERM Department are:

- Establish a consistent ERM process among the Lyon Corporation companies
- Promote a risk culture within Lyon Corporation
- Develop a corporate-level Economic Capital modeling process
- Create a risk appetite statement and assess overall risk exposure in relation to risk appetite
- Develop a strategic risk profile in conjunction with the Corporate Strategic Planning Department

### 2.6.1. Economic Capital Modeling

The three affiliated companies have provided information on the status of economic capital modeling within their organizations.

### 2.6.1.1. SLIC

SLIC has implemented an economic capital model tailored to its own company-specific risks. The intent is to quantity the risks to the company's net equity (on a market-consistent basis) using a one-year 99.5% Value at Risk (VaR) measure. The model quantifies exposure to interest rate risk, equity price risk, and credit risk.

Interest rates are modeled stochastically using a single-factor model calibrated to monthly historical data for 10-year U.S. Treasury yields from 1994. Equity returns are modeled stochastically using a regime-switching lognormal distribution that is calibrated to thirty years of daily S&P 500 equity index returns.

For the VA and its GMAB, the VaR is calculated with liabilities net of hedging assets and derivatives. Implied volatility is derived from current exchange-traded 10-year at-the-money equity floors. As an approximation, the test assumes expiring derivatives can be replaced with current at-the-money instruments.

For credit risk, the model assumes that existing investment grade fixed income assets are sold immediately if they fall below investment grade. Therefore, the company does not quantify the risk of credit default or loss given default. Credit risk is modeled through the stochastic simulation of credit ratings migration. The calibration uses ten years of historical data for corporate bond ratings migrations and yield spreads. Since the company has a general buy and hold investment strategy, credit spreads are only considered to be a risk factor if and when investment grade assets are downgraded below investment grade. SLIC calculates the risk of fluctuations in market value due to credit spread movements in the absence of ratings

downgrades, but excludes the results since its statutory surplus is based upon asset book value and it has a general buy and hold investment strategy.

The Company is currently considering a few methodologies to capture insurance risk, but has not implemented anything to date. A full-blown stochastic-on-stochastic analysis may be too much of a load on the existing computer infrastructure, so less onerous methodologies are being studied.

At this point, the Company does not have an operational risk model and, therefore, operational risk is estimated to be 10% of the fair value of liabilities, whose calculation excludes any provisions for this risk.

Procedurally, each risk is calculated for each line of business. Each risk is then summed for the company. The risks are then aggregated using a correlation matrix derived from the prior ten years of market movements. All negative correlations are floored at zero. Operational risks are assumed to have zero correlation with other factors.

### 2.6.1.2. AHA

AHA has not considered economic capital modeling important for a health company. Management has recently begun assessing the need for such a model.

### 2.6.1.3. Pryde

Pryde retained Hawthorne Consulting in 2012 to assist the company in developing an economic capital model that would aid management in gauging the adequacy of overall capitalization of the company and in allocating resultant capital to target lines of business or niche business segments. Pryde wishes to gauge the risk adjusted return on capital (RAROC) by segment to aid in its business planning for 2013 and beyond. In essence, Pryde's goal is to improve its ability to better manage capital and return.

Hawthorne recommended using the RAROC approach. This approach considers both how much Pryde is earning on the capital that is committed to the business and how much capital is needed to ensure that policyholders are paid in the event of a stress scenario.

Hawthorne estimated capital requirements for Pryde based on a 99.4% VaR risk metric. Economic capital assessment was based on a multi-step process beginning with a bottom-up analysis of individual risks.

Stand-alone capital was determined per the 99.4% VaR for each risk separately. The resulting total was reduced by about 30.5%, based on Hawthorne's estimate of correlation and diversification effects.

### 2.6.2. Strategic Risk Analysis

### 2.6.2.1. Risk Appetite

In absence of a CRO, the Lyon Audit Committee had commenced work on developing a risk appetite statement for Lyon Corporation. The following is a draft risk appetite statement prepared by the Audit Committee for review by the Lyon Corporation Board.

### **Risk Appetite Statement (Draft)**

Lyon recognizes that it will take on certain business risks in an informed and proactive manner, such that the level of risk is aligned with the potential business rewards. Lyon's risk management process is designed to facilitate management's regular review of current risk exposures against Lyon's risk appetite. Any risk with the potential to have a material impact on shareholder value will be included within the scope of the risk management process. The Board will, on a regular basis, review and approve Lyon's risk appetite.

The following table summarizes the Lyon Corporation's pain threshold at the holding company level.

Enterprise Risk Exposure Risk Appetite "Pain Point"	Likelihood *	Likelihood – Hard Limit **
Holding company earnings fall short of Annual Plan by more than 25%	10%	20%
Credit rating falls below A-	10%	20%
Group Capital Adequacy Ratio falls by 20%	10%	20%

<sup>\*</sup> Probability of reaching the "pain point" in a given year.

### **Risk Limits**

The same risk appetite limits will be applied at the affiliate level. Each business unit will determine the risk limit for each business segment taking into account all risk categories applicable to the product lines.

### 2.6.2.2. Risk Culture

Lyon Corporation defines risk culture as the norms of behavior for employees in Corporate and the affiliates to accept or take risks within the prescribed risk limits, and the ability to identify, understand, discuss and act on the risk at the Corporate as well as affiliate levels. Once the ERM processes are fully established, Lyon Corporation expects that all employees will fully understand the ERM processes and have the conviction to openly discuss risk issues with their managers. Lyon expects to include risk competency in the compensation and reward framework.

<sup>\*\*</sup> The maximum acceptable probability of reaching the "pain point" in a given year.

### 2.6.2.3. Merger and Acquisition

Lyon Corporation does not currently pursue acquisitions at the Corporate level. It allows the affiliates to pursue potential acquisitions if they are supported by the affiliate business plan approved by the Lyon Board.

The Lyon Board has three overarching principles for approval of any acquisition identified by the affiliates:

- 1. The acquisition should be strategic to the affiliate.
- 2. The acquisition should provide clearly identifiable benefits.
- 3. The risks involved in the integration must be clearly identified, along with appropriate risk management responses to be taken.

### **Potential Acquisition**

Currently, AHA has targeted Active Choice Insurance Company (Active Choice), a small local health insurance company, as a potential acquisition target. Active Choice is domiciled in New York and is in the small and large group markets in the state of New York. Active Choice is an HMO and files an Orange Blank with the NAIC.

Active Choice's products include comprehensive major medical coverage of hospital services, physician services, dental services, and prescription drugs. The average deductible for Active Choice's plans is under \$2,500 in all markets. Dental is offered as a rider to medical.

Active Choice has contracted with Networks 'R Us to use their provider networks for physician and hospital services. It also has contracts with Carefree Rx, a Prescription Benefit Management company (PBM), and Painless Dental to manage and administer their prescription drug and dental plans, respectively. In order to lower costs, it periodically puts its network contracts out to bid. While this may lower premiums it has been disruptive to members in the past.

Active Choice uses the standard medical management from its vendors. The company has a medical management staff that coordinates with the vendors' medical managers to ensure that the vendors meet New York requirements and that their policies are consistent with the Active Choice product language.

Due diligence related to the potential acquisition identified certain key issues that need closer review:

- 1. Determine whether the Active Choice administration system, which is a home grown system, is compatible with AHA's system.
- 2. Ensure that the policy and claims reserves at Active Choice are adequate and that the underlying assumptions and calculations are reasonable.
- 3. Understand why the broker and administrative costs are higher than expected.

4. Decide how to deal with human resource issues, for example, consolidating Active

Choice employees into the AHA pension plan.

# 3. Simple Life Insurance Company (SLIC)

The Simple Life Insurance Company (SLIC) is 51% owned by R. Tomas Lyon III and 49% owned by Lyon Corporation.

SLIC is a life insurance company with four lines of business: Term Life, Universal Life, Single Premium Immediate Annuities, and Variable Annuities.

The Company, founded as Term Life Insurance Company, made its name selling term life insurance, and this continues to be a hallmark of the company today. The Company is at a crossroads where competition has required significant compression of margins. The goal is to capture a portion of the asset build-up within the "baby boomer" generation as its members find that term insurance is insufficient for their needs and wish to change their desired insurance products. To reflect the expanded product offering, the Company was renamed and rebranded as Simple Life Insurance Company at the end of 2009.

#### 3.1. Board of Directors

R. Tomas Lyon III - Chairman, President and CEO

Karl Palomino - former CFO, SLIC

Jeanne Holstein-Palomino - Philanthropist

Ivan X. Salmon - former Chief Legal Counsel, SLIC

Hermione Dauphin - former accounting partner for Dollars 'R Us, former insurance regulator for Insurance Department of Illinois

#### 3.2. Officers

R. Tomas Lyon III, Chairman of the Board, President, CEO

Henri Jay, EVP - Operations

Open, SVP & Chief Financial Officer

Mindy Wren, SVP & Chief Counsel

Odette Bird, SVP - Variable Annuity

George Lyon, SVP - Universal Life

William Xu, SVP - Term Life

Danielle Wolfe - VP - Chief Marketing Officer

# 3.3. Capitalization

The company operates without any long-term debt. The company strives to maintain a strong statutory risk based capital (RBC) ratio and to have an actual to required economic capital ratio of 125% or greater. Any surplus in excess of the larger of 400% of RBC or 125% of required economic capital is distributed to Lyon Corporation through a dividend annually at the end of the first quarter based on the year-end balance sheet.

# 3.4. Investment Policy and Strategy

The investment department manages the general account investments. The Chief Investment Officer (CIO) reports to the CFO. Investment policy and strategy is reviewed and approved by an internal management committee consisting of the CEO, CFO, CIO, and SVPs (or VPs) of its four main business lines. Internal management committee decisions are subject to review by the SLIC Board's investment committee. The internal management committee meets quarterly and is responsible for reviewing investment results and approving the use of new investment instruments. Day-to-day decision-making authority is delegated to the CIO, up to specified limits. The CIO may delegate approval authority to his or her subordinates. Transactions in excess of the CIO's approval limit require approval by the CEO and CFO.

The company's general account is invested primarily in fixed-income assets. Variable annuity investment accounts are held in a separate (segregated) account and are managed by a third-party investment advisor.

Within the general account, there are separate investment portfolios for each of the four main product lines. The corporate surplus (net equity) is allocated to the four portfolios.

# 3.5. Specified Risk Policies

#### 3.5.1. Credit Risk

Fixed-income securities in the general account have exposure limits at individual obligor (issuer) and sector levels. Obligor-level limits vary according to asset type and credit quality, as determined by external rating agencies. The investment department monitors compliance of the exposure limits.

For each portfolio, there are weighted average credit quality targets. Portfolio credit quality is measured by converting each asset's external credit rating into a numerical score. Scores are a linear function of credit ratings (AAA = 1, AA = 2, etc.). Sub-category ratings (i.e., + or -) are ignored in the scale. The company prefers to maintain a score above 3.5 for each line of business.

#### 3.5.2. Market Risk

Semi-annually within the term, UL and SPIA lines of business, the company measures the Macaulay duration of the assets and liabilities. If the asset and liability durations are further

apart than 0.5, the asset portfolio is rebalanced such that its new Macaulay duration equals that of the liabilities.

The VA hedging program uses a dynamic approach updated for market factors monthly and for inforce changes quarterly. The key risk measures are delta and rho, and the program updates its equity and interest rate derivatives such that at least 80% of liability delta and rho are hedged. Vega is self-insured due to system complexity and the expense of implied volatility hedges. Reports are produced and hedges adjusted approximately six-weeks following each quarter end.

The VA liability delta and rho measures are estimated from an actuarial projection model using a home-grown computing platform. Actuarial assumptions are mostly updated annually, and are based on historical experience when possible, and pricing assumptions otherwise. The inforce contract data comes from an extract from the contract administration system, and are subsequently aggregated into modeling cells for computing efficiency. Model access and changes to it are controlled, while its documentation is routinely updated.

A modeling actuary from the valuation group prepares a quarterly report for the hedging group, who then passes along buy and sell instructions to their traders. After completing the transactions, the traders confirm the trades in a report to the hedging group.

#### 3.5.3. Liquidity Risk

The liquidity policy requires SLIC to hold sufficient liquid assets to meet expected demands for cash in a unique liquidity stress-test scenario. The scenario focuses on a reputational liquidity crisis basis where markets continue to operate normally and the liquidity crunch affects only the company. The liquidity stress test anticipates situations where the company's ability to sell assets to meet cash needs from its liability products is hindered by the market taking advantage of the company during the crisis. In addition, testing periodically considers a systemic stress scenario where the entire market is not able to sell assets at a reasonable value. However, SLIC's liquidity policy does not require it to hold sufficient liquid assets to be able to meet cash demands in such a scenario, since it expects regulatory relief in such a systemic crisis.

#### 3.5.4. Operational Risk

The CRO will be responsible for collecting and disseminating risk information. A report will be prepared monthly and distributed to executive management.

# 3.6. Economic Capital Model

SLIC has implemented an economic capital model tailored to its own company-specific risks. The intent is to quantify the risks to the company's net equity (on a market-consistent basis) using a one-year 99.5% Value at Risk (VaR) measure. The model quantifies exposure to interest rate risk, equity price risk, and credit risk.

Interest rates are modeled stochastically using a single-factor model calibrated to monthly historical data for 10-year US Treasury yields from 1994. Equity returns are modeled

stochastically using a regime-switching lognormal distribution that is calibrated to thirty years of daily S&P 500 equity index returns.

For the VA and its GMAB, the VaR is calculated with liabilities net of hedging assets and derivatives. Implied volatility is derived from current exchange-traded 10-year at-the-money equity floors. As an approximation, the test assumes expiring derivatives can be replaced with current at-the-money instruments.

For credit risk, the model assumes that existing investment grade fixed income assets are sold immediately if they fall below investment grade. Therefore, the company does not quantify the risk of credit default or loss given default. Credit risk is modeled through the stochastic simulation of credit ratings migration. The calibration uses ten years of historical data for corporate bond ratings migrations and yield spreads. Since the company has a general buy and hold investment strategy, credit spreads are only considered to be a risk factor if and when investment grade assets are downgraded below investment grade. SLIC calculates the risk of fluctuations in market value due to credit spread movements in the absence of ratings downgrades, but excludes the results since its statutory surplus is based upon asset book value and it has a general buy and hold investment strategy.

The Company is currently considering a few methodologies to capture insurance risk, but has not implemented anything to date. A full-blown stochastic-on-stochastic analysis may be too much of a load on the existing computer infrastructure, so less onerous methodologies are being studied.

At this point, the Company does not have an operational risk model and, therefore, operational risk is estimated to be 10% of the fair value of liabilities, whose calculation excludes any provisions for this risk.

Procedurally, each risk is calculated for each line of business. Each risk is then summed for the company. The risks are then aggregated using a correlation matrix derived from the prior ten years of market movements. All negative correlations are floored at zero. Operational risks are assumed to have zero correlation with other factors.

# 3.7. Stress Testing

Stochastic testing is supplemented with deterministic scenario-based stress tests, performed annually. Each test is applied as an instantaneous shock to the economic conditions as of the valuation date. Interest rates have a floor of 0.10%.

	Stress A	Stress B	Stress C
Government Rates			
0.25	+2.00%	-3.00%	-4.00%
0.5	+1.50%	-3.00%	-4.00%
1	+1.00%	-2.00%	-4.00%
5	+0.75%	-1.50%	-2.00%
10	+0.75%	-1.00%	0%
20	+0.50%	-0.75%	0%
30	+0.50%	-0.75%	0%
Corporate Spreads			
AAA	0%	+1.00%	+0.50%
AA	0%	+1.50%	+0.75%
A	0%	+2.00%	+1.00%
BBB	0%	+4.00%	+2.00%
BB	0%	+6.00%	+3.00%
Equity			
Prices	-10%	-30%	+30%
Implied Volatility (10 yr)	+10%	+30%	+10%

### 3.8. Risk Management Committee

The committee meets regularly on a quarterly basis. Meetings focus on reviewing internal risk reports and interviews with key employees in finance, systems, and audit.

At its third quarter meeting, the committee unanimously recommended the hiring of a Chief Risk Officer (CRO), who will create and lead an independent Enterprise Risk Management (ERM) department. The CRO will be responsible for developing and implementing a comprehensive company-wide ERM program and serve as the risk liaison across various business segments to address significant emerging concerns. The committee also recommended that the CRO report on risk-related issues at its quarterly meeting.

However, during the debate of this recommendation with the Board, Mr. Lyon expressed the opinion that the Risk Management Committee would be redundant once the CRO started. His preference was that the CRO report to the EVP-Planning as someone with significant experience who knew the company well and could serve as a guide to the CRO. Mr. Lyon recommended that the new CRO become an officer of the company following three to five years of experience at the company. The Board concurred with Mr. Lyon and the Risk Management Committee will be disbanded on the date the CRO becomes an officer of SLIC.

#### 3.9. Product Distribution:

The Company distributes its products through an independent brokerage system. The Company supplies marketing materials and product descriptions. Brokers are responsible for their own training. The Company has relied upon its distribution system to clarify and explain the change in name of the Company.

### **3.10. Product Descriptions**

#### 3.10.1. Level Premium Term Insurance

The term life insurance product is payable on death up to maturity of the contract. It has guaranteed level premiums and no cash value. Three term periods are available: 10, 20 and 30 year. The product is non-convertible.

Key terms are as follows:

- Face Amount offered from \$25,000 to \$25,000,000
- Level Premium based upon 150% of expected mortality, an annual lapse rate of 5% and a discount rate of 4%
- Underwriting: simplified issue to all lives with a health questionnaire embedded in the application
- Standard Non-forfeiture Law testing has deemed no necessary cash surrender values
- First year commission equals 100% of premium
- Expected mortality is assumed to be 100% of 2001 US Non-Smoking Ultimate Table

Sales have been extraordinary, in part due to competitive pricing, 100% first year sales compensation, and a strong advertising campaign. The company's nearest competitor has premiums more than 20% higher and pays sales commission of 35% of premium for the first three years.

The Company is considering reinsurance due to the high volume and high face amounts requested from its clients, but the reinsurance rates from both Conservative Re and from Aggressive Re both make product profitability unacceptable.

Recent mortality experience has been poor but the company has taken steps to reduce antiselection by terminating the contracts of a few aggressive agents who had been selling policies to people entering hospital for major surgery. Product lapse rates to date have been consistently under 2%.

Because the product is selling well and the Company sees limited downside risk in this plain-vanilla product, the product pricing review will be postponed until next year.

#### 3.10.2. Variable Annuity

**Current Product**: The Variable Annuity with a ROP GMDB has a GMAB rider with a ten-year maturity. It offers a collection of eight proprietary mutual fund choices (seven domestic and one foreign) and a fixed fund invested in the general account. The GMAB rider benefit is to increase the account value to an amount equal to the initial deposit amount at rider maturity, if the account value at the end of 10 years is less than the initial deposit. No deposits are permitted after issue.

Key terms are as follows:

• 2.40% annual fee charged against account balance

- o 1.40% M&E, 1.00% for rider over its coverage period
- 5% of premium one-time first year commission to salesperson
- Surrender charge = (10 Y)% of account value, where Y = completed years from issue
- Death Benefit = Greater of initial deposit and the account balance (i.e., ROP GMDB)
- At the GMAB rider maturity on the tenth anniversary, the rider benefit is an increase to the
  account value, if needed, to make the account value at least equal to the initial deposit
- Partial withdrawals are not allowed
- An annual policy lapse rate of 5% is assumed if the account value is greater than the initial deposit less four times the surrender charge; otherwise, no lapses assumed
- Expected mortality is assumed to follow the 2000 Domestic Annuity Table

Sales are significantly lower compared to prior years, probably attributable to other competitors offering a wider range of funds and rider options. To avoid the lengthy and expensive market research and product development cycles, the Company has decided to be a "fast-follower" and copy successful designs it sees in the market place.

Over the prior year, National Bank has begun selling a product to compete with GMABs written by the insurance industry. The product is a rider on an S&P 500 mutual fund that guarantees return of principle for a 2% annual fee applied to the fund value. The rider has no specific death benefit, but has no surrender charges and allows a reset on each anniversary of the deposit. National Bank has numerous branches throughout the country and seems to have a strong marketing department.

**Proposed Product Improvements**: First, the marketing team believes that adding a wider range of investment fund options would attract new customers and help to retain existing clients. Therefore, the company plans to add new fund families over the next six months. The new fund options will be available on existing and new VA GMAB contracts as well as on new VA contracts with the new guaranteed benefit riders described below.

Second, Marketing also believes additional guaranteed benefit riders similar to those that competitors have added over the past several years would boost sales. Therefore, the company is considering an enhanced product called VA Plus, adding availability of partial withdrawals, an enhanced Guaranteed Minimum Death Benefit (GMDB) rider, and a Guaranteed Minimum Income Benefit (GMIB) rider. These riders are under development and are expected to be available in nine months.

For GMDB, the death benefit is defined as of the prior anniversary and is the greater of a voluntary annual reset of the fund level and the initial premium accumulated at 5% per annum. The company expects this feature to be affordable since this benefit only pays out upon the rare combination of the insured dying and the market performing below historical average.

For the GMIB, upon contractholder election, the company will use the maximum of account value and a 5% accumulation of initial deposit assumption to buy annuity payments at its current purchase price assumptions.

For both the GMDB and GMIB riders, two alternative withdrawal bases were discussed:

- Under "dollar-for-dollar," the benefit is reduced by the amount of the partial withdrawal. For example, adjusted DB = original DB – PW, where DB = death benefit and PW = partial withdrawal.
- 2. Under "proportional," the benefit is reduced in proportion to the account value. For example, adjusted DB = original DB \* (AV PW)/AV, where AV is the account value at the time of withdrawal.

Under VA Plus, partial withdrawals will be allowed and handled on a dollar-for-dollar basis.

SLIC will be fast-tracking the product development and implementation process, resulting in a very aggressive time schedule. As part of the implementation process, the administrative system needs additional programming to handle an increased slate of fund and rider offerings.

#### 3.10.3. Universal Life

The universal life product is an adjustable premium product with a level face amount for the life of the contract. The policy will terminate if the account value reaches zero.

Key terms are as follows:

- Face Amount offered from \$25,000 to \$25,000,000
- Death Benefit = greater of Face Amount and 110% of Account Value
- Target Premium = \$25 per thousand payable for 20 years
- Policies only issued to non-smoking males age 40 to 50
- Underwriting is full medical for all contracts
- First year commission equals 50% of the lesser of the target premium and premium paid
- Renewal commissions are 1% of the cumulative premium paid
- Surrender charges for lapses in the first ten years equal to 10% of the lesser of target premium and paid premium in the first two years, grading down to zero in policy year 10
- Partial surrenders are allowed once a year, up to the amount of 25% of cash value
- Cost of Insurance (deducted from account balance annually in advance) = 120% of expected mortality, which is currently 80% of the 2002 U.S. Basic ANB Mortality Table, and is applied to the net amount of risk
- The Cost of Insurance charges are adjustable at the company's discretion, but only based upon changes in expected mortality. The Cost of Insurance rates shall be changed only on a class basis and with the approval of the regulator, and are subject to prescribed contractual maximum rates.
- A policy maintenance fee of \$60 is charged annually, in advance
- Credited rate on the accumulation fund = greater of the underlying portfolio earned rate less a 2% spread and the five year treasury bond yield plus 0.25%, but never less than a fixed 3%. The credited rate is determined on each policy anniversary and is applicable for the following policy year.
- The company has full discretion in the investment of the policy accumulation funds

- The investment plan used for pricing was a rolling fund of five-year AA corporate paper yielding 6%
- Voluntary policy surrender rate is assumed to be 3.00% per year

Launch sales have been much lower than expected, but the company is anticipating that the 3% floor on investment returns will become more attractive and result in higher future sales. For the UL product, like the VA, the Company has decided that "fast-follower" is the preferred product development method for the near future.

The administrative system needs additional programming to handle some product features that are now available to the client. To date these features selections have been tracked through electronic notes in the policy file.

Three of the Company's competitors in the UL market have recently formed an administrative services only company, called UL Admin Co, to administer their universal life contracts. UL Admin Co performs all of the UL administrative tasks for the three companies, such as policy administration, valuation, and cash flow and reserve projections for planning and risk purposes. In recognition of the expense savings achieved, the three companies have given an extracontractual benefit to their policyholders by cutting their annual policy maintenance charge by \$30.

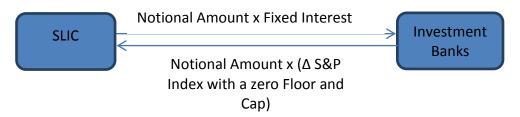
Conservative Re reinsures the mortality risk on a 50% coinsurance basis at the same price as the Company's COI charges with unlimited capacity. Conservative Re is the Company's preferred reinsurance partner as they put no capacity limits on any of their treaties with all of their clients. Conservative Re also provides excellent off-site educational sessions in exotic locations that help meet the Company's employees continuing educational requirements. SLIC considers Conservative Re to be an important strategic partner.

Policy issuance as a percentage of applications has been much lower than expected. Lapse rates in the first year are lower than anticipated in pricing. Recent mortality experience has been approximately equal to expected mortality, but SLIC has little exposure to date.

Due to the current low level of interest rates, the Company has revised the investment plan to be a mix of ten-year BBB corporate debt, high yielding sovereign paper of mixed maturity periods, and some exclusive opportunities in the private equity area.

**Proposed New Product:** George Lyon, SVP - Universal Life is interested in diversifying SLIC's UL product portfolio and increasing sales. Consistent with SLIC's "fast-follower" product development method, Mr. Lyon asked the product development actuaries to investigate broadening SLIC's UL product line by adding an Indexed UL product, a hot product in the current market. An Indexed UL product is a fixed UL product with an indexed account option. The interest credits on the indexed account are based on the greater of the return on an index, such as the S&P 500, or zero. It is attractive to policyholders who want to participate in the future price appreciation in stocks in the S&P 500 without the risk of negative returns. To the policyholder, the risk/return of an Indexed UL policy falls somewhere between the relatively low risk/low return of a UL policy and the relatively high risk/high return of a Variable UL policy.

For the basic product SLIC would enter a swap agreement to exchange a specified investment income to a return on an S&P index with a zero floor and a specified cap, which would allow SLIC effectively to transfer out the embedded market risk.



Lyon envisions that more sophisticated Indexed UL products could be offered in the future with multiple indexed accounts based on different indices or different time periods of index growth and indexed interest crediting.

In response to Mr. Lyon's request, the product development actuaries have developed a basic Indexed UL product. To facilitate pricing and implementation, the features are proposed to be the same as the current UL product with the following exceptions.

- To simplify hedging, the swap will be purchased on a quarterly basis for the aggregate premiums paid into the indexed account within the quarter;
- Premiums are assumed to be allocated 40% to the Fixed Account and 60% to the Indexed Account
- The Fixed Account has a minimum guaranteed crediting rate of 2% and a current crediting rate, declared annually, based on the net portfolio yield less a 2% expense charge;
- The Indexed Account credits interest annually based on the increase in the S&P 500 index, excluding dividends, up to a declared cap, which will be determined for each quarter, driven by swap prices. The declared cap and S&P index value in effect on the policy anniversary are used to determine the indexed interest credits in the following policy year. The minimum guaranteed cap is 2%. The minimum guaranteed crediting rate is 0% on the Indexed Account.

The product design actuaries have proposed that the UL investment portfolio support both the UL and the new Indexed UL products. The indexed interest would be hedged by purchasing the equivalent swap on the underlying index, initially the S&P 500.

#### 3.10.4. Single Premium Immediate Annuity

The major product features and pricing characteristics of the only single premium immediate annuity that SLIC has ever sold include:

- Single Premium = 110% of present value of expected payments discounted at 4%
- Straight Life Annuity (no certain period)
- Issued to all ages 65 and over
- No death benefit
- Expected mortality equals 100% of the 2000 US Annuity Table with Projection Scale X
- Commission equals 5% of premium

Recent sales have been slow but have been strengthening recently as interest rates have fallen. Through interviews with select brokers, SLIC has noticed an odd correlation - it seems many of the Company's annuitants have also taken out term life insurance contracts with "We-Serve-the-Healthy" Life in amounts equal to the annuity single premium.

Recent mortality experience has been approximately equal to expected but mortality improvement seems to be higher than expected.

The product is selling well, but decreasing interest rates are a matter of concern. Traditionally, assets supporting this block have been investments in high quality long term corporate bonds and treasuries. However, in response to the recent economic environment and the uptick in mortality improvement, higher yielding exotic investments have been used recently to help meet the desired profit margin. These new investments include such assets as real estate, domestic private equity and emerging markets common equity.

# **3.11.** Balance Sheets

The following are the company's balance sheets (\$ million) as of Dec 31, 2013:

SLIC	(millions	)			
<b>Statutory Balance Sheet</b>					
	SPIA	Term	UL	VA	Total
Cash and Investments (Book Value)	1,820	930	1,840	150	4,740
Deferred Tax Asset		-	-	-	-
Separate Account Assets	-	-	-	620	620
Total Assets	1,820	930	1,840	770	5,360
Best Estimate Liability	1,640	470	1,400	-20	3,490
Implicit Margin	-70	210	270	30	440
Statutory Reserve	1,570	680	1,670	10	3,930
Deferred Tax Liability	-	-	-	-	-
Separate Account Liabilities	-	-	-	620	620
Total Liabilities	1,570	680	1,670	630	4,550
Surplus	250	250	170	140	810
Total Liabilities and Surplus	1,820	930	1,840	770	5,360
Risk Based Capital	60	60	40	30	170
Diversification Benefit	=	-	-	-	-20
Actual to Required Capital	417%	417%	425%	467%	476%

<b>Economic Balance Sheet</b>	SPIA	Term	UL	VA	Total
Cash and Investments (Market Value)	1,810	940	1,830	150	4,730
Deferred Tax Asset	50	-	=	-	50
Separate Account Assets	=	-	=	620	620
Total Assets	1,860	940	1,830	770	5,400
Best Estimate Liability	1,640	470	1,400	-20	3,490
Explicit Margin	70	70	90	-	230
Economic Reserve	1,710	540	1,490	-20	3,720
Deferred Tax Liability	-	50	60	10	120
Separate Account Liabilities	-	=	=	620	620
Total Liabilities	1,710	590	1,550	610	4,460
Equity	150	350	280	160	940
Total Liabilities and Surplus	1,860	940	1,830	770	5,400
<b>Economic Capital Requirement</b>	180	230	100	260	630
Diversification Benefit	=	-	-	-	-140
Actual to Required Capital	83%	152%	280%	62%	149%

# 3.12. Income Statement

The following is the company's income statement (\$ millions) for the year ended December 31, 2013:

Statutory Income Statement	SPIA	Term	UL	VA	Total
Direct Premium	167.0	125.0	150.0	50.0	492.0
Ceded Premium	-	-	(12.5)	-	(12.5)
Net Investment Income	89.4	49.8	89.1	7.4	235.7
Net Revenues	256.4	174.8	226.6	57.4	715.2
Death Benefits (Net of Reinsurance)	-	35.0	25.0	1.0	60.0
Annuity Benefits	98.0	-	-	-	98.0
Surrender Benefits	-	-	33.0	4.0	38.0
Increase in Reserves	123.8	125.0	97.0	5.0	350.8
Commissions	8.4	20.0	20.0	2.5	50.9
General Expenses	1.7	7.5	12.0	6.3	27.5
Taxes, Licenses and Fees	0.8	1.9	3.0	0.3	6.0
Net Transfers to/(from) Separate Account	-	-	-	25.6	25.6
Net Benefits, Expenses and Deductions	232.7	189.4	190.0	44.7	656.8
Net Gain from Operations	23.7	(14.6)	36.6	12.7	58.4
Federal Income Tax	7.6	(4.7)	11.7	4.1	18.7
Net Realized Capital Gains (Losses)	(0.2)	(0.6)	(0.3)	(0.1)	(1.2)
Net Income	15.9	(10.5)	24.6	8.5	38.5

# 3.13. Portfolio Summary

The following is a breakdown by asset class of the market value of SLIC's general account investment portfolios (\$ million), excluding derivatives and variable annuity separate (segregated) accounts.

LOB	U.S. Treasuries	U.S. Agencies	U.S. Mortgage Backed Securities	U.S. Corporate Investment Grade	Short-Term	Other	Total
SPIA	486	492	261	318	72	181	1,810
Term	37	28	9	866	0	0	940
UL	448	462	320	292	125	183	1,830
VA	0	0	0	135	15	0	150
Total	971	982	590	1,611	212	364	4,730

Other asset portfolio characteristics by line of business are as follows:

	Avg Duration	Avg Book Yield	Avg Quality*
Immediate Annuity	8.4	5.34%	2.5
Term	7.0	5.45%	2.7
Universal Life	6.5	5.14%	2.3
Variable Annuity	4.5	5.55%	3.1

<sup>\*</sup>Quality Ratings: Aaa=1, Aa=2, A=3, Baa=4

# 3.14. Historical Market Data

In preparation for a review of its economic capital model assumptions, SLIC has compiled the following summary of historical index returns for various asset classes.

Summary of Monthly Index Returns, 3/31/1992 to 3/31/2012

			Barclays Capital U.S. Bond Indices				<b>Equity Indices</b>		
	Treasuries	Agencies	Mortgage Backed Securities	Corporate Investment Grade	Corporate High Yield	Aggregate	Long Treasuries	S&P 500	MSCI EAFE
Compound Annual Return	6.43%	6.24%	6.47%	7.15%	8.11%	6.63%	8.84%	8.55%	5.92%
Annualized Volatility	4.61%	3.68%	2.84%	5.59%	9.00%	3.73%	9.81%	15.05%	16.88%
Skewness	-0.22	-0.15	-0.06	-0.71	-1.17	-0.28	0.17	-0.69	-0.59
Kurtosis	4.00	4.22	4.89	7.56	12.54	3.93	4.96	4.22	4.29
Correlations									
Treasuries	1.00								
Agencies	0.95	1.00							
Mortgage Backed Securities	0.84	0.89	1.00						
Corporate Investment Grade	0.67	0.76	0.70	1.00					
Corporate High Yield	-0.10	0.05	0.10	0.54	1.00				
Aggregate	0.92	0.96	0.91	0.87	0.22	1.00			
Long Treasuries	0.94	0.86	0.75	0.64	-0.09	0.86	1.00		
S&P 500	-0.15	-0.05	0.02	0.27	0.62	0.06	-0.15	1.00	
MSCI EAFE	-0.18	-0.08	-0.03	0.29	0.62	0.04	-0.17	0.79	1.00
Bond Index Data as of 3/31/2012									
Duration	5.61	3.66	3.32	6.84	4.19	5.01	15.90		
Convexity	0.70	0.01	-2.02	0.91	0.00	-0.16	3.54		
Yield to Maturity	1.19%	1.26%	2.74%	3.41%	7.73%	2.23%	3.11%		
OAS to Treasuries	0.00%	0.36%	0.52%	1.76%	5.76%	0.64%	0.00%		

Source: Barclays Capital, Bloomberg

### 3.15. SLIC Disaster and Business Continuity Program

Each department within SLIC maintains a Business Continuity Policy (BCP) under the direction and advice of the Business Buoyancy Department (BBD). As part of this process, SLIC senior management has designated business continuity coordinators for each of their respective departments. These coordinators maintain and update business continuity plans, keep inventories of vital records and establish an appropriate record retention schedule. Each quarter, the business continuity coordinators are required to complete a check-box report to senior management to indicate that they have fulfilled their duties.

In addition to complying with the program developed by the BBD, each department is encouraged to institute and maintain a Risk Mitigation Policy (RMP) to help SLIC rebuild in the event of a catastrophe. The RMP includes development and maintenance of rebuild instructions and management succession instructions. The RMP is reviewed and updated on an annual basis.

Periodic disaster recovery exercises are performed where SLIC personnel (with the exception of senior management) are required to work from an offsite location. SLIC has contracted out this offsite service from a third-party, Disasters-R-Us™, that specializes in providing shared disaster recovery capabilities.

Although Disasters-R-Us<sup>™</sup> is located a fair distance from SLIC and Disasters-R-Us<sup>™</sup> contracts out the same equipment to multiple clients on a first-come, first-serve basis, SLIC senior management believed that the price was affordable.

Each year SLIC conducts a fire drill exercise where SLIC personnel (with the exception of senior management) are required to leave the building, meet at nearby pre-determined rallying points and wait for instructions. Those employees with SLIC-issued laptops are required to take their laptops with them, proceed to a nearby coffee shop, purchase a small coffee with the unlimited refill option and continue work by connecting to the coffee shop's Wi-Fi hotspot.

Each year, SLIC senior management participates in an offsite workshop to review all of the operating policies in the disaster and business continuity program as well as the effectiveness of the most recent disaster recovery and fire drill exercises.

#### 3.16. SLIC Salaried Pension Plan

The following pages contain financial and demographic information about the SLIC Salaried Pension Plan, as well as information about the Statement of Funding Policies and Procedures for the Plan and the Statement of Investment Policies and Procedures for the Plan.

SLIC, through its Board of Directors, has delegated responsibility for the day-to-day management of the Plan to the Vice-President, Human Resources and the Chief Financial Officer. The CFO's focus is on financial reporting and cash contribution requirements, the VP HR is largely responsible for all other activities.

#### 3.16.1. Pension Plan - Benefit Provisions and Financial Information

The information on the following pages enumerates the current provisions of the Pension Plan and provides certain historical financial information. Historical financial information is not available prior to January 1, 2009.

# **Extracts of Retirement Benefits Provisions and Financial Information SLIC Salaried Pension Plan**

F	
Eligibility	Immediate
Vesting	100% after 5 years of plan membership
Normal Retirement Age	65
Early Retirement Age	55 with 5 years of plan membership
Best Average Earnings	Average earnings during 60 consecutive months of highest earnings
Earnings	Base Pay, excluding overtime and bonuses
Normal Retirement Benefit	2% of best average earnings times service years, subject to maximum
Accrued Benefit	Benefit calculated as under the normal retirement benefit formula using best average earnings and service as the valuation date
Early Retirement Benefit	Accrued benefit reduced by 0.25% per month that early retirement precedes age 62 for active participants and actuarial equivalent for terminated vested participants
Form of Benefit	If with spouse, 60% joint & survivor benefit; else single life annuity
Optional Forms of Benefit	None
Indexing	None
Termination Benefit	(1) Lump sum value equal to actuarial present value of accrued pension payable at age 65; or (2) Deferred pension
Pre-Retirement Death	Lump sum value equal to actuarial present value of accrued pension
Benefit	payable at age 65 to named beneficiary
Disability Benefit	Accrual of service while on long term disability and immediate
Disability Belletit	pension without a reduction upon permanent and total disability

**SLIC Salaried Pension Plan** Historical Actuarial Valuation Results

	2009	2010	2011	2012	2013
Participant Summary - January 1					
Active Participants					
(a) count	975	966	959	950	933
(b) average age	50.9	51.2	51.2	51.4	52
(c) average service	17.3	17.5	17.7	17.8	17.8
(d) average future working lifetime	11	11	11	11	11
(e) average plan earnings (prior year)	95,000	95,100	95,200	95,000	94,900
Deferred Vested Participants					
(a) count	-	-	-	-	-
Pensioners (incl beneficiaries)					
(a) count	915	915	916	916	921
(b) average age	74.2	74.2	73.9	73.5	73
(c) average annual benefit	47,500	47,600	47,700	47,700	47,500

#### Plan Assets (numbers in \$000's) \*

Change in Plan Assets during Prior Year:					
Market Value of Assets at January 1 of prior year	-	664,572	679,902	486,055	584,132
Employer Contributions during prior year	_	14.800	16,664	66,946	46,599
Benefit Payments during prior year	_	(44,763)	(44,654)	(45,693)	(45,393)
Expenses during prior year	-	-	-	-	-
Investment return during prior year	-	45,293	(165,856)	76,824	58,886
Market Value of Assets at January 1 of current year	664,572	679,902	486,055	584,132	644,224
Rate of return during prior year	0%	7%	-25%	15%	10.1%
Average Portfolio Mix During Prior Year:					
(a) Domestic Large Cap Equities	0%	40%	39%	33%	36%
(b) Domestic Small Cap Equities	0%	20%	20%	15%	16%
(c) Domestic Fixed Income	0%	30%	30%	42%	39%
(d) International Equities	0%	4%	4%	5%	4%
(e) Real Estate	0%	4%	4%	2%	3%
(f) Cash	<u>0%</u>	<u>2%</u>	<u>2%</u>	<u>3%</u>	<u>2%</u>
(g) Total	0%	100%	100%	100%	100%
Asset Class Returns during Prior Year:					
(a) Domestic Large Cap Equities	0%	5%	-37%	26%	15%
(b) Domestic Small Cap Equities	0%	9%	-45%	28%	5%
(c) Domestic Fixed Income	0%	7%	5%	6%	7%
(d) International Equities	0%	16%	-6%	-17%	13%
(e) Real Estate	0%	6%	-63%	51%	29%
(f) Cash	0%	5%	2%	0%	0%

<sup>\*</sup> numbers may not add due to rounding

SLIC Salaried Pension Plan

Historical Actuarial Valuation Results

2009 2010 2011 2012 2013 Actuarial Valuation - January 1 (numbers in \$000's) \* 1. Actuarial Accrued Liability: (a) Active participants 256,032 278,310 279,745 288,114 298,850 (b) Deferred vested participants 405,052 (c) Pensioners 395,509 406,347 415,085 437,475 (d) Total 651,541 683,362 686,091 703,199 736,325 2. Actuarial Value of Assets 664,572 679,902 486,055 584,132 644,224 3. Unfunded Actuarial Accrued Liability: (13,031)3,460 200,036 119,067 92,101 (1d)-(2)4. Normal Cost (beg. Of year) 14,800 15,903 15,805 16,186 16,789 5. Change in Unfunded AAL during prior year: (a) Unfunded AAL at prior valuation date (13,031)3,460 200,036 119,067 (b) Adjustment for Interest (880)225 13.002 7,739 (c) Normal Cost w/interest less 499 (268)(52,290)(30,875)contributions (d) (Gain)/Loss on investment (1.446)209.140 (44.539)(20.878)(e) (Gain)/Loss on salary increases less (17,013)(17,797)(18,771)(19,031)than expected (f) (Gain)/Loss on assumption changes 27,971 7,876 30,342 (g) (Gain)/Loss on all other factors 5,276 5,737 7,358 13,753 (h) Unfunded AAL at current valuation (13,031)3,460 200,036 119,067 92,101 date 6. Actuarial Basis (a) Interest 6.75% 6.50% 6.50% 6.50% 6.00% 4.00% (b) Salary scale 4.00% 4.00% 3.50% 3.75% (c) Consumer Price Index 3.00% 3.00% 2.50% 3.00% 3.00% 1994 1994 (d) Mortality UP 1994 UP 1994 UP 1994 Uninsured Uninsured AA15 AA15 AA15 Pensioner Pensioner Mortality -Mortality -Generational Generational (e) Turnover None (f) Retirement age Age 62 (g) Proportion married and age difference 80% married, husbands 3 years older than wives Assume all expenses paid by company (h) Expenses (i) Asset Valuation Method Market value of assets (j) Actuarial Cost Method Projected unit credit

<sup>\*</sup> numbers may not add due to rounding

2009 2010 2011 2012 2013

#### Expense Valuation - January 1 (numbers in \$000's) \*

Reconciliation of funded status at valuation	n date:						
(a) Accrued Benefit Obligation (ABO)	(629,971)	(603,007)	(623,057)	(657,031)	(688,835)		
(b) Projected Benefit Obligation (PBO)	(730,433)	(703,251)	(726,773)	(767,023)	(802,888)		
(c) Fair Value of Assets	664,572	679,902	486,055	584,132	644,224		
(d) Funded Status: (b) + (c)	(65,861)	(23,349)	(240,718)	(182,891)	(158,664)		
(e) Unamortized net actuarial gain)/loss	56,088	17,601	241,333	211,784	203,307		
(f) Accrued benefit asset/(liability)	(9,773)	(5,748)	616	28,893	44,643		
2. Pension Expense:							
(a) Service Cost (beg. of year)	17,759	16,645	17,313	18,558	19,249		
(b) Interest Cost	41,734	43,598	43,274	43,866	41,971		
(c) Expected return on assets	(48,719)	(49,943)	(37,251)	(43,855)	(45,138)		
(d) Amortization of past service cost	-	-	-	-	-		
(e) Amortization of net actuarial	-	-	15,332	12,280	11,183		
(gain)/loss							
(f) Pension Expense for year	10,774	10,300	38,669	30,849	27,266		
3. Actuarial Basis and Supplemental Data							
(a) Discount rate	5.75%	6.25%	6.00%	5.75%	5.25%		
(b) Return on assets	7.50%	7.50%	7.50%	7.50%	7.00%		
(c) Salary scale	3.75%	3.50%	3.50%	3.50%	3.00%		
(d) Consumer Price Index	3.00%	3.00%	3.00%	2.50%	2.50%		
(e) Mortality	UP 1994	UP 1994	UP 1994	1994	1994		
	AA15	AA15	AA15	Uninsured Pensioner	Uninsured Pensioner		
				Mortality -	Mortality -		
				Generational	Generational		
(f) Turnover			None				
(g) Proportion married and age difference	80	% married, hu	sbands 3 years	s older than wi	ives		
(h) Retirement age	Age 62						
(i) Expenses	Assume all expenses paid by company						
(j) Asset Valuation Method	Market value of assets						
(k) Actuarial Cost Method			ojected unit cre				
(I) Employer contributions	14,800	16,664	66,946	46,599	46,599		
(m) Benefit payments	(44,763)	(44,654)	(45,693)	(45,393)	(45,393)		

<sup>\*</sup> numbers may not add due to rounding

SLIC Salaried Pension Plan Reconciliation of Plan Participants (2009 - 2013)

	Active	Pensioners/ Beneficiaries	Total
1. Participants as of January 1, 2009	975	915	1,890
- New Entrants/Rehires	9	-	9
- Terminated Nonvested	(3)	-	(3)
- Terminated Vested (Lump Sum Cashout)	(8)	-	(8)
- Retirement	(7)	7	-
- Death w/ Beneficiary	-	3	3
- Deaths	-	(10)	(10)
- Net change	(9)	-	(9)
2. Participants as of January 1, 2010	966	915	1,881
- New Entrants/Rehires	11	-	11
- Terminated Nonvested	(3)	-	(3)
- Terminated Vested (Lump Sum Cashout)	(7)	-	(7)
- Retirement	(8)	8	-
- Death w/ Beneficiary	-	3	3
- Deaths	-	(10)	(10)
- Net change	(7)	1	(6)
3. Participants as of January 1, 2011	959	916	1,875
- New Entrants/Rehires	9	-	9
- Terminated Nonvested	(3)	-	(3)
<ul> <li>Terminated Vested (Lump Sum Cashout)</li> </ul>	(7)	-	(7)
- Retirement	(7)	7	-
- Death w/ Beneficiary	(1)	7	6
- Deaths	-	(14)	(14)
- Net change	(9)	-	(9)
4. Participants as of January 1, 2012	950	916	1,866
- New Entrants/Rehires	4	-	4
- Terminated Nonvested	(2)	-	(2)
<ul> <li>Terminated Vested (Lump Sum Cashout)</li> </ul>	(7)	-	(7)
- Retirement	(11)	11	-
- Death w/ Beneficiary	(1)	7	6
- Deaths	-	(13)	(13)
- Net change	(17)	5	(12)
5. Participants as of January 1, 2013	933	921	1,854

SLIC Salaried Pension Plan Age/Svc/Earnings as of January 1, 2013

			Service (Years) < 5	5-10	10-15	15-20	>20	Totals
Age (Years)	< 25	# Participants Average Salary	- -	-	-	-	-	-
	25-35	# Participants Average Salary	7 58,800	45 66,600	-	-	- -	52 65,600
	35-45	# Participants Average Salary	22 59,500	14 82,900	43 87,700	54 95,400	-	133 85,700
	45-55	# Participants Average Salary	4 60,500	20 81,600	48 90,100	149 94,500	148 94,500	369 92,900
	55-65	# Participants Average Salary	10 55,000	19 80,200	58 85,100	129 92,400	113 130,600	329 102,400
	> 65	# Participants Average Salary	6 72,600	10 91,900	6 111,200	14 121,000	14 149,900	50 116,300
	Totals	# Participants Average Salary	49 60,200	108 76,200	155 88,400	346 94,900	275 112,200	933 95,000
		Avg Age Avg Svc Avg Salary	52.0 17.8 94,900					

Simple Life Salar	ied Pension P	lan	
Interest Sensitivity	y and Cash Flo	ows	
	<u>Actives</u>	<u>Pensioners</u>	<u>Total</u>
Rate	<u>Liabilitiy</u>	<u>Liabilitiy</u>	<u>Liabilitiy</u>
6.00%	298,849,923	437,475,000	736,324,923
5.50%	319,436,841	455,140,469	774,577,310
6.50%	280,175,145	420,993,205	701,168,350
Duration (5.5%)	13.1	7.8	10.0
Convexity (5.5%)	255.9	108.2	168.2
Five Years	Actives	Pensioners	Total
Ending Dec 31	Cash Flow	Cash Flow	Cash Flow
2017	55,930,427	200,566,677	256,497,104
2022	110,010,522	181,480,351	291,490,873
2027	134,057,420	151,888,965	285,946,385
2032	130,404,137	113,612,879	244,017,016
2037	118,132,501	71,987,503	190,120,004
2042	96,147,700	35,985,415	132,133,115
2047	66,944,859	13,308,120	80,252,979
2052	39,938,564	3,396,522	43,335,086
2057	20,656,666	537,413	21,194,079
2062	9,219,194	49,492	9,268,686
2067	3,364,241	2,365	3,366,606
2072	873,435	68	873,503
2077	124,446	0	124,446
2082	7,911	0	7,911
2087	132	0	132
2092	0	0	0

#### 3.16.2. Statement of Funding Policies and Procedures - SLIC

The Company has prepared a Statement of Funding Policies and Procedures ("Statement") to document the governance of the Plan. The Company has also prepared a Statement of Investment Policies and Procedures. Extracts of the Statement are provided below followed by a summary of the Statement contents.

#### 3.16.2.1. Allocation of Responsibilities

The Company has delegated the management of Plan funding as follows:

The Company, acting through Management, will:

- Establish, review and amend, as required, the Statement of Funding Policies and Procedures;
- Select the Pension Consultant and the Actuary;
- Review funding reports prepared by the Actuary regarding the funding of the Plan; and
- Be responsible for the assumption or delegation of any responsibilities not specifically mentioned.

The Pension Consultant and Actuary will:

- Assist, as required, the Company in the preparation of the Statement of Funding Policies and Procedures;
- Present to the Company, as required by the Statement of Funding Policies and Procedures, reviews and reports regarding the funding of the Plan; and
- Comment to the Company on any changes in plan design, contribution flow or pension legislation that may affect the funding of the Plan.

#### 3.16.2.2. Funding Policy Principles

The Company is the primary risk bearer under the Plan. As a result, the funding objective of the Company is the accumulation of assets that will secure the Plan's benefits in respect of service already rendered. The accumulation of assets should be reasonable, without significant volatility or further recourse to the Company's assets.

The Company believes management of the Plan on a going concern basis is the most suitable means to achieve these objectives.

#### 3.16.2.3. Management of Risks

The Company has adopted the following policies to mitigate their risks:

- Going-concern valuations are to be prepared using best estimate assumptions adjusted to include margins for adverse deviation. The Company will consult with the Pension Consultant and Actuary regarding the adoption of margins for adverse deviation.
- Emerging experience will differ from the assumptions made for going-concern purposes. The Pension Consultant and Actuary will monitor emerging experience and recommend revisions to the going-concern assumptions as appropriate.
- Plan provisions are managed to mitigate, to the extent possible, demographic and economic risks. Benefit improvements under the Plan will be made with due regard to the Plan's funded status.
- Investment activity will be carried out with due regard to the liability structure of the Fund, to
  the cash flow requirements of the Fund, and to the risks and rewards inherent in the defined
  benefit investments. The Statement of Investment Policies and Procedures documents the
  Company's policies regarding investment risk.

#### 3.16.2.4. Funding Target

The funding target for the Plan is to have a funded ratio (assets divided by liabilities) of 100% on a going-concern basis.

#### 3.16.2.5. Funding Risks

The Company bears the following funding risks:

• The Plan's demographic experience may differ from best-estimate assumptions. The Plan provides for subsidized early retirement provision and bears the risk of overutilization of the

- provision by the Plan membership.
- The Plan's economic experience may differ from best-estimate assumptions. In addition to investment risks, the Company bears the risks associated with providing a final average earnings benefit.
- The Plan's liabilities are debt-like in nature and have a long term to maturity. As a result of
  the current investment strategy and nature of the Plan's liabilities, there is the risk of an
  asset-liability mismatch.

\* \* \* \* \* \* \*

The contents of the Statement follow:

- PURPOSE
- BACKGROUND, PLAN TYPE AND LIABILITIES
- ALLOCATION OF RESPONSIBILITIES
- FUNDING POLICY PRINCIPLES
- FUNDING RISKS
- MANAGEMENT OF RISKS
- FUNDING TARGET
- ELIMINATION OF DEFICITS
- UTILIZATION OF EXCESSES
- FREQUENCY OF VALUATIONS
- COMMUNICATION
- APPENDIX 1 Summary of Roles
- APPENDIX 2 Summary of Liabilities, Assets and Membership Data
- APPENDIX 3 History of SFP&P Review and Amendments

#### 3.16.2.6. Statement of Investment Policies and Procedures - Excerpts

Following are excerpts from the Statement of Investment Policies and Procedures for the SLIC Insurance Company's Pension Plan.

#### 3.16.2.7. Investment Risk

- Investment risk is borne by the Company
- Going-concern surplus, subject to any legislative restrictions, can be applied against the Company's Normal Actuarial Cost

#### 3.16.2.8. Allocation of Responsibilities

The Company, acting through Management, will:

- Establish, review and amend, as required, the Statement of Investment Policies and Procedures;
- Select one or more fund managers ("Fund Managers"), the Pension Consultant and the Actuary;
- Select the Custodian to hold pension fund assets;
- Review the performance of the Fund and the Fund Managers at least annually; and

 Be responsible for the assumption or delegation of any responsibilities not specifically mentioned.

#### The Fund Managers will:

• Manage the asset mix and select securities within each Investment Fund Option, subject to applicable legislation and the constraints set out in this Statement.

#### The Pension Consultant and Actuary will:

- Assist, as required, the Company in the preparation of the Statement of Investment Policies and Procedures; and
- Comment to the Company on any changes in plan design or contribution flow that may affect the investment of assets.

#### The Custodian will:

- Fulfil the regular duties required by law of the Custodian in accordance with the Plan;
- Participate in annual reviews of the Statement of Investment Policies and Procedures;
- Present to the Company, at least annually, reviews and reports of investment performance of the Fund Managers;
- Provide the Company with monthly updates on the performance of the Fund Managers;
- Provide the Company with information, on an ongoing basis, about changes at the Fund Managers that could affect investment performance;
- Present to the Company, at least annually, reviews and reports of all investment Fund assets and transactions for the period;
- Monitor actual investments as appropriate to ensure compliance with the Pension Benefits Act; and
- Rebalance the Plan portfolios as requested by the Company.

#### 3.16.2.9. Investment Objectives

- to preserve the capital;
- to provide sufficient funds to meet payments as they become due; and
- to maintain sufficient assets over actuarial requirements to meet unforeseen liabilities.

#### 3.16.2.10. Rate of Return Objectives

- to achieve an average annual rate of return, net of investment expenses, of at least the funding valuation rate of return (currently 6.0%) per year, measured over moving, four-year periods;
- to achieve top third performance, relative to the peer group of fund managers, measured over moving, four-year periods;
- to exceed the passive benchmark for the Pension Fund by 1.00% per annum, measured on a four-year moving average basis; and
- to achieve at least the increase in the Consumer Price Index plus 3%, on a four-year moving average basis.

#### 3.16.2.11. Asset Allocation Guidelines

The following normal policy allocation, and associated range for strategic deviation at any time, has been adopted by the Company:

Percentages of Fund at Market Value	Normal	Minimum	Maximum
Domestic Equities	40%	30%	50%
International Equities	20%	15%	25%
Domestic Fixed Income	30%	15%	45%
Real Estate (Private)	4%	0%	8%
Private Equity	4%	0%	8%
Cash	2%	0%	4%

Within the ranges noted above, the Fund Managers may actively vary the asset mix in an effort to achieve the investment objectives of the Company.

#### 3.16.2.12. Passive Management Objectives

The rate of return expected to be achieved through passive management of the assets in the Plan Fund will be based on the normal allocation of assets. The passive return shall be set equal to the sum of:

- 45.0% of the S&P 500 Index return for the year;
- 20.0% of the MSCI EAFE Index return for the year; and
- 35.0% of the Barclays Capital Aggregate Bond Index return for the year.

#### *3.16.2.13.* Rebalancing

The Company will direct the re-balancing of the assets in the component pooled funds, when it deems rebalancing to be appropriate.

#### 3.16.2.14. Related Party Transactions

A Related Party is:

- (a) the Company, acting as Plan Administrator,
- (b) an officer, director or employee of the Company,
- (c) the funding agent or person responsible for investing the assets of the Plan, or any officer, director or employee thereof,
- (d) an association or trade union representing employees of the Company, or an officer or employee thereof,
- (e) an employer who participates in the Plan, or an employee, officer or director thereof,
- (f) the Plan Participant,
- (g) a person (including spouse or child) directly or indirectly holding more than 10% of the voting shares of the Company,
- (h) the spouse or child of (a) to (g),
- (i) an affiliate of the Company,

- (j) a corporation directly or indirectly controlled by a person in (a) to (h),
- (k) an entity in which a person in (a), (b), (e) or (g), has a substantial investment (where "substantial investment" means more than 25% of the ownership interests in an unincorporated entity, more than 10% of the voting rights of a corporation or more than 25% of the shareholders' equity in a corporation) or,
- (I) an entity with substantial investment in the Company.

Related Parties excludes government or a financial institution holding Plan assets if not the administrator.

The Company, acting as Plan Administrator, shall not, directly or indirectly:

- lend the assets of the Plan to a Related Party or invest those assets in the securities of a Related Party; or
- enter into a transaction with a Related Party on behalf of the Plan, subject to a minimum limit of \$50,000 per transaction and a cumulative limit of \$250,000 in a Plan's fiscal year.

Related Party transactions are acceptable provided they are necessary for the operation of the Plan and are purchased on terms and conditions that are at least as favourable for the Plan as are otherwise available.

# 3.16.2.15. Appendix - Economic Data

The investment consultant for SLIC's DB Plan has supplied the following economic data:

	Market Value	Duration	KRD	KRD	KRD	KRD	KRD	KRD
SLIC DB Plan	(\$000)	Duration	1 Yr	3 Yr	5 yr	10 Yr	20 Yr	30 Yr
					1.0			
Plan Actives	298,850	13.1	0.05	0.25	8	3.60	4.50	3.62
					1.3			
Plan Pensioners	437,475	7.8	0.20	0.52	5	2.85	2.22	0.66
					1.2			
Plan Total Liabilities	736,325	10.0	0.15	0.42	5	3.16	3.15	1.87

	Equity Indices		Barclay's Capital U.S. Bond Indices		
	S&P 500	MSCI EAFE	Aggregate 2 Aggregate Year Matu		
Expected Returns	6.50%	8.00%	2.30%	3.00%	
Annualized Volatility	15.05%	16.88%	3.73%	10.02%	
Duration	0.00	0.00	5.01	14.19	
Skewness	-0.67	-0.77	-0.41	0.03	
Kurtosis	4.22	4.51	4.82	5.56	

	Equity Indices			y's Capital and Indices
	S&P MSCI			Aggregate 10+
Correlations	500	EAFE	Aggregate	Year Maturity
S&P 500	1.00			
MSCI EAFE	0.79	1.00		
Aggregate	0.06	0.04	1.00	
Aggregate 10+ Year Maturity	-0.10	-0.05	0.90	1.00

SLIC DB PLAN: Top 10 Equity Holdings

Rank	Name	Beta	Rank	Name	Beta
1	General Electric	1.60	6	Caterpillar	2.00
2	Citigroup	0.99	7	Berkshire Hathaway	0.48
3	Exxon Mobil	0.49	8	Costco	0.79
4	Mead Johnson	0.75	9	Procter & Gamble	0.46
5	AT&T	0.60	10	Cisco Systems	1.18

# SLIC DB Plan:

Portfolio Managers	Current	Expected Tracking	TE
US Fixed Income	% Allocation	Error	Volatility
Manager A	50%	1.2%	4%
Manager B	50%	2.0%	4%
Benchmark	0%	0%	0%
Portfolio Managers		Expected	TE
		Tracking	
US Equity	% Allocation	Error	Volatility
Manager C	50%	3.6%	6%
Manager D	50%	2.4%	6%
Benchmark	0%	0%	0%

# 4. Health Insurance Companies

### 4.1. Background

AHA Health Insurance Company (AHA) is a large national insurance company located in California with its home office in Los Angeles. AHA is wholly owned by Lyon Corporation.

Active Choice Insurance Company (Active Choice) is a small local health insurance company domiciled in New York with its home office in Albany. Active Choice is a potential acquisition target for AHA.

### 4.2. Employee Benefits

AHA Health provides basic life, health and disability benefits to its employees while they are employed by the company. These benefits do not continue after employees leave the company.

AHA Health sponsors a company-paid final-average-earnings defined benefit pension plan for its employees.

Active Choice provides basic life, health and disability benefits to its employees while they are employed by the company. These benefits do not continue after employees leave the company.

Active Choice does not sponsor any pension or savings plans for its employees.

#### 4.3. Product Lines

AHA sells individual and group insurance in California and 14 other states. It is in both the small and large group markets in all states. In addition, AHA has a small block of long term care (LTC) business with policyholders located all over the country.

Active Choice is in the small and large group markets in the state of New York.

#### 4.4. Product Structure

AHA's policies include comprehensive major medical coverage of hospital services, physician services, and prescription drugs. The plans have an average deductible under \$2,500 in all markets. In addition, the group policies include dental coverage. Dental is offered as a rider to the medical policies.

Active Choice's products include comprehensive major medical coverage of hospital services, physician services, dental services, and prescription drugs. The average deductible for Active Choice's plans is also under \$2,500 in all markets. Dental is offered as a rider to medical.

### 4.5. Provider Networks & Medical Management

AHA has staff that negotiates with physician and hospital providers in each state in which it is licensed and continually monitors these provider networks. It has contracted with Networks 'R Us to use its provider networks when members need services outside of states in which it is licensed. In addition, AHA has contracted with Carefree Rx, a nationwide drug plan, to manage and administer its prescription drug coverage. Finally, AHA has a contract with Painless Dental to manage and administer its dental plans.

AHA has its own centralized medical management staff that administers its medical management policies consistently in all states in which it is licensed. AHA's staff continually reviews and revises policies to keep costs down and to keep up with the latest developments. Its vendors, Networks 'R Us, Carefree Rx, and Painless Dental, work with AHA to make sure their medical management policies do not conflict with those of AHA.

Active Choice has contracted with Networks 'R Us to use their provider networks for physician and hospital services. It also has contracts with Carefree Rx, a Prescription Benefit Management company (PBM), and Painless Dental to manage and administer their prescription drug and dental plans, respectively. In order to lower costs, it periodically puts its network contracts out to bid. While this may lower premiums it has been disruptive to members in the past.

Active Choice uses the standard medical management from its vendors. The company has a medical management staff that coordinates with the vendors' medical managers to ensure that the vendors meet New York requirements and that their policies are consistent with the Active Choice product language.

# 4.6. Operations

AHA has a claims system developed and maintained by a well-respected national vendor. AHA maintains a close relationship with this vendor to make sure that the system meets all of its needs. On the other hand, Active Choice has a "home grown" system that has performed well over the years. However, modifications are difficult and take time which has resulted in payment errors. Needless to say, their controls in many areas differ and some are drastically different.

Both companies underwrite small business coverage, but their procedures are very different. The advent of healthcare reform will bring their underwriting processes closer together. Both companies use credibility rating but have different points for determining whether a group is fully credible.

AHA is diligent in collecting data. Their information is categorized in a number of different ways that allows all parts of the company to use the same database. For example, Medical Management can use the corporate database to determine which of its initiatives have been successful. Their data are used for research, forecasting, group reporting, and financial reporting. The group reports have proved helpful in showing groups how to lower their costs.

Also, it is easy for AHA to do ad hoc financial analyses. Active Choice stores its data mainly at the group level and use categories that allow it to do some detailed reporting to groups, pricing, monthly financial reporting and, of course, statutory reporting.

# 4.7. Management/Culture

Lyon Corporation management has little experience in health insurance. As result, they are content to allow the AHA management a great deal of autonomy and this arrangement has worked well in the past.

AHA's management tends to be aggressive and willing to take risks. The fact that their business is spread over a large membership base in 15 states may give them a sense of security. On the other hand, the management of Active Choice appears to be more conservative. However, since their company covers the entire state of New York, they are adept at dealing in diverse markets (rural to cosmopolitan). Both management teams have generous incentive plans but requirements for receiving incentive payments differ. Finally, there are substantial cultural difference between the southern California AHA and the northeastern Active Choice management teams.

Neither company has a CRO. AHA has a risk committee with limited scope and authority and different senior managers take on a CRO role as needed.

Both organizations have incentive compensation plans. AHA's plan criteria include membership growth, profitability, and quality of care. AHA's plan covers management staff from top management to frontline management. The goal is to have all management focused on the key drivers of success. Active Choice's plan only covers senior management and the incentives cover the direct responsibilities of each executive (e.g., the chief marketing officer is responsible for growth and the CFO is responsible for profitability). The goal of this plan is to make sure senior executives focus on their responsibilities and do not get sidetracked. Also, this type of plan ensures that management in the rest of the company does not make decisions directly affecting a given executive's area of the business.

# 4.8. Healthcare Reform & Other Regulatory Issues

AHA's staff has been following healthcare reform since its inception and has developed and updated detailed implementation plans. These include timelines and requirements for additional staff. The new staff members need to be hired in time to get at least 6 months of training. At this time, the funds for the new staff have not been approved so hiring has been put on hold.

The management of Active Choice has been following healthcare reform and has decided to use a vendor to help with the implementation. This will leave the current staff free to concentrate on the current business. Currently, Active Choice is negotiating with several vendors.

Next year, AHA with undergo its triennial audit by the California Department of Insurance. Management anticipates that there will not be any problems but this audit entails a substantial effort from Finance, Internal Audit, Actuarial, and other areas.

# 4.9. Going Forward

The corporate CFO of AHA is interested in hedging the LTC risk and has called together a team from AHA's finance and actuarial areas plus the corporate finance and investment areas to see how to move ahead with this idea. It would seem that the timing on this initiative is very apropos because the management of AHA is looking into purchasing a block of LTC business.

In addition, AHA is developing its strategy for the period after full implementation of the Affordable Care Act in 2014. AHA's claim experience varies dramatically by state and market (Individual, Small Group, and Large Group). AHA must decide whether to pull out of certain markets, stay in the market and sell out of the Exchange, or remain in the market and sell through the Exchange. The Exchanges offer protection through the reinsurance program and the risk corridor program. However, any pricing error would be exploited very quickly for plans on the Exchange. A large volume of underpriced new business could be sold very quickly. Also, a rate increase would take months to implement given the new, time consuming rate approval process.

Finally, AHA management is looking into purchasing Active Choice. The driving force behind this acquisition is to help AHA enter a new market without having to build a lot of infrastructure. Initially, the Active Choice management would remain in place to run the company and integration would proceed over several years. AHA management is putting together a due diligence team including staff from AHA finance, actuarial, marketing, and medical management.

# 4.10. AHA Financial Statements

# AHA Balance Sheet (in \$millions) 12/31/2013

		Amount
1.	Cash and invested assets	\$2,074.8
2.	Accident and health premiums due and unpaid	\$86.6
3.	Amounts recoverable from reinsurers	\$0.0
4.	Net credit for ceded reinsurance	\$0.0
5.	All other admitted assets	\$96.2
6.	Total assets	\$2,257.6
7.	Claims unpaid	\$335.0
8.	Accrued medical incentive pool and bonus payments	\$0.8
9.	Premiums received in advance	\$417.6
10.	Funds held under reinsurance treaties	\$0.0
11.	Reinsurance in unauthorized companies	\$0.0
12.	All other liabilities (balance)	\$64.7
13.	Total liabilities	\$818.1
14.	Total capital and surplus (line 6 minus line 13)	\$1,439.5
15.	Total liabilities, capital and surplus (line 13 + line 14)	\$2,257.6

# **AHA Transactions with Providers (in \$millions)**

	Ana Italisactions with Floviders (in \$1111110115)	
		Direct
		Medical
		Expense
		Payment
<u>Capi</u>	<u>itation Payments (in \$millions)</u>	
1.	Medical groups	\$0.0
2.	Intermediaries	\$160.4
3.	All other providers	\$0.0
4.	Total capitation payments	\$160.4
<u>Othe</u>	er Payments (in \$millions)	
5.	Fee-for-service	\$710.1
6.	Contractual fee payments	\$2,089.4
7.	Bonus/withhold arrangements: fee-for-service	\$0.0
8.	Bonus/withhold arrangements: contractual fee payments	\$0.0
9.	Non-contingent salaries	\$0.0
10.	Aggregate cost arrangements	\$0.0
11.	All other payments	\$0.0
12.	Total other payments	\$2,799.5
13.	Total (line 4 + line 12)	\$2,959.9

# **AHA Premiums, Enrollment and Utilization**

		Comprehensive Hospital & Medical			
				Long Term	
		Individual	Group	Care	Total
Total Member	s at the end of:				
1.	Prior Year	491,895	327,930	25,000	844,825
2.	First Quarter, Current Year	485,345	313,125	25,520	823,990
3.	Second Quarter, Current Year	490,635	310,530	31,225	832,390
4.	Third Quarter, Current Year	483,480	302,175	32,255	817,910
5.	Fourth Quarter, Current Year	498,565	307,755	35,000	841,320
6.	Current Year Member Months	5,932,065	3,730,860	372,515	10,035,440
Total Member	s Ambulatory Encounters for Year:				
7.	Physician	4,862,445	3,473,175	1,735	8,337,355
8.	Non-Physician	290,100	200,070	19,975	510,145
9.	Total	5,152,545	3,673,245	21,710	8,847,500
10.	Hospital Patient Days Incurred	90,360	75,300	1,880	167,540
11.	Number of Inpatient Admissions	21,400	19,455	195	41,050
Premiums, Wr	ritten and Earned (in \$millions)				
12.	Health Premiums, Written	\$2,176.2	\$1,674.0	\$41.8	\$3,891.9
13.	Life Premiums, Direct	\$0.0	\$0.0	\$0.0	\$0.0
14.	Property & Casualty Premiums, Written	\$0.0	\$0.0	\$0.0	\$0.0
15.	Health Premiums, Earned	\$2,176.2	\$1,674.0	\$41.8	\$3,891.9
16.	Life Premiums, Earned	\$0.0	\$0.0	\$0.0	\$0.0
17.	Property & Casualty Premiums, Earned	\$0.0	\$0.0	\$0.0	\$0.0
Olitica Britis					
Ciaims, Paid a	and Incurred (in \$millions)  Amount Paid for Provision of				
18.	Health Care Services  Amount Incurred for Provision of	\$1,637.2	\$1,309.7	\$13.1	\$2,960.0
19.	Health Care Services	\$1,630.1	\$1,304.1	\$13.0	\$2,947.2
Member Ambu	ulatory Encounters for Year - Per 1,000				
7.	Physician	9,836	11,171	56	9,969
8.	Non-Physician	587	644	644	610
9.	Total	10,423	11,815	700	10,580
10.	Hospital Patient Days Incurred	183	242	61	200
11.	Number of Inpatient Admissions	43	63	6	49
Premiums, Wr	ritten and Earned - PMPM				
12.	Health Premiums, Written	\$366.85	\$448.68	\$112.17	\$387.82
13.	Life Premiums, Direct	\$0.00	\$0.00	\$0.00	\$0.00
14.	Property & Casualty Premiums, Written	\$0.00	\$0.00	\$0.00	\$0.00
15.	Health Premiums, Earned	\$366.85	\$448.68	\$112.17	\$387.82
16.	Life Premiums, Earned	\$0.00	\$0.00	\$0.00	\$0.00
17.	Property & Casualty Premiums, Earned	\$0.00	\$0.00	\$0.00	\$0.00
Claims Paid s	and Incurred -PMPM				
•	Amount Paid for Provision of	•			<b>.</b>
18.	Health Care Services  Amount Incurred for Provision of	\$275.99	\$351.06	\$35.11	\$294.95
19.	Health Care Services	\$274.79	\$349.54	\$34.95	\$293.68

#### AHA Income Statement, in \$millions December 31, 2013 (Prior to Minimum Loss Ratio Rebate Calculation)

#### **Comprehensive Hospital and Medical**

			Long Term	
	<u>Individual</u>	<u>Group</u>	Care	<u>Total</u>
1. Net Premiums	\$2,176.2	\$1,674.0	\$41.8	\$3,891.9
2. Net Investment Income	\$17.4	\$13.4	\$10.4	\$41.2
3. Total Revenue (1 + 2)	\$2,193.6	\$1,687.4	\$52.2	\$3,933.2
4. Accident & Health Benefits	\$1,630.1	\$1,304.1	\$13.0	\$2,947.2
5. Increase in Aggregate Reserves	\$32.6	\$25.1	\$8.4	\$66.1
6. Total (4 + 5)	\$1,662.7	\$1,329.2	\$21.4	\$3,013.3
7. Commissions	\$108.8	\$83.7	\$3.3	\$195.8
8. General Insurance Expenses	\$176.3	\$135.6	\$3.4	\$315.2
9. Insurance Taxes, Licenses and Fees	\$65.3	\$50.2	\$1.3	\$116.8
10. Total Expenses (7 + 8 + 9)	\$350.4	\$269.5	\$8.0	\$627.8
11. Total Benefits and Expenses (6 + 10)	\$2,013.1	\$1,598.7	\$29.4	\$3,641.2
12. Net Gain From Operations Before FIT (3 less 11)	\$180.5	\$88.7	\$22.9	\$292.0
13. Federal Income Taxes	\$63.2	\$31.0	\$8.0	\$102.2
14. Net Gain From Operations After FIT (12 less 13)	\$117.3	\$57.6	\$14.9	\$189.8

### **AHA Experience by State**

2013 AHA Experience by State
Group Medical

Group Medical								
	NV	OR	WA	CA	IL	IN	NJ	MI
Small Group								
Direct Premium (in \$millions)	\$156.2	\$31.7	\$14.1	\$147.0	\$14.1	\$69.0	\$92.8	\$24.8
Direct Claims (in \$million)	\$129.0	\$25.0	\$11.6	\$92.5	\$10.7	\$57.9	\$78.9	\$16.7
Direct Loss Ratio	82.6%	79.0%	82.0%	62.9%	75.6%	83.9%	85.0%	67.5%
Member Months	305,725	51,910	20,410	155,975	32,425	180,570	243,830	91,885
Earned Premium - PMPM	\$511.05	\$610.25	\$691.55	\$942.53	\$435.85	\$381.88	\$380.75	\$269.83
Incurred Claims - PMPM	\$422.00	\$482.12	\$567.10	\$593.24	\$329.66	\$320.57	\$323.65	\$182.25
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Large Group								
9								
Direct Premium (in \$millions)	\$194.5	\$35.6	\$20.5	\$313.2	\$133.0	\$22.6	\$163.1	\$43.4
Direct Claims (in \$millions)	\$151.8	\$31.0	\$12.1	\$249.0	\$97.1	\$20.0	\$133.7	\$35.3
Direct Loss Ratio	78.0%	87.0%	58.9%	79.5%	73.0%	88.7%	82.0%	81.4%
Member Months	454,345	59,380	35,075	631,100	331,850	55,290	371,645	143,920
Earned Premium - PMPM	\$428.14	\$599.82	\$583.06	\$496.32	\$400.79	\$408.01	\$438.82	\$301.37
Incurred Claims - PMPM	\$334.06	\$521.87	\$343.58	\$394.60	\$292.66	\$362.00	\$359.85	\$245.30
	ψου που	φοΣ 1.01	φο 10.00	φου 1.00	Ψ202.00	φου2.00	φοσσ.σσ	ΨΕ 10.00
All								
Direct Premium (in \$millions)	\$350.8	\$67.3	\$34.6	\$460.2	\$147.1	\$91.5	\$255.9	\$68.2
Direct Claims (in \$millions)	\$280.8	\$56.0	\$23.6	\$341.6	\$107.8	\$77.9	\$212.7	\$52.1
Direct Loss Ratio	80.1%	83.2%	68.4%	74.2%	73.3%	85.1%	83.1%	76.4%
Member Months	760,070	111,290	55,485	787,075	364,275	235,860	615,475	235,805
Earned Premium - PMPM	\$461.49	\$604.68	\$622.97	\$584.75	\$403.91	\$388.00	\$415.81	\$289.08
Incurred Claims - PMPM	\$369.43	\$503.33	\$425.80	\$433.96	\$295.95	\$330.28	\$345.51	\$220.73
	<b>*</b>	<b>*</b>	¥ 1.23.00	*	<b>4</b> _00.00	<b>4</b> 000	*******	<b>*</b> ======
Individual Medical								
Direct Premium (in \$millions)	\$487.7	\$98.9	\$44.1	\$458.9	\$44.1	\$215.2	\$289.8	\$77.4
Direct Claims (in \$millions)	\$412.1	\$76.8	\$35.5	\$267.5	\$32.8	\$177.6	\$242.1	\$51.4
Direct Loss Ratio	84.5%	77.6%	80.6%	58.3%	74.3%	82.5%	83.5%	66.4%
Member Months	1,208,665	205,225	80,690	616,635	128,190	713,870	963,965	363,260
Earned Premium - PMPM	\$403.50	\$481.82	\$546.01	\$744.18	\$344.13	\$301.51	\$300.62	\$213.05
Incurred Claims - PMPM	\$340.96	\$374.09	\$440.03	\$433.83	\$255.79	\$248.74	\$251.13	\$141.42
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### **AHA Experience by State (continued)**

Group Medical								
0 "0	SC	TN	TX	ОН	GA	KY	WI	Total
Small Group								
Direct Premium (in \$millions)	\$5.0	\$14.6	\$23.2	\$40.6	\$46.8	\$12.8	\$4.3	\$697.2
Direct Claims (in \$million)	\$3.1	\$10.1	\$17.6	\$32.3	\$31.1	\$10.7	\$4.2	\$531.4
Direct Loss Ratio	61.0%	69.4%	75.8%	79.5%	66.4%	83.4%	95.6%	76.2%
Member Months	14,660	40,350	71,710	125,355	123,110	31,735	10,835	1,500,485
Earned Premium – PMPM	\$343.86	\$361.75	\$323.14	\$323.91	\$380.29	\$404.06	\$401.28	\$464.63
Incurred Claims - PMPM	\$209.89	\$251.21	\$244.99	\$257.48	\$252.60	\$337.01	\$383.64	\$354.15
Large Group								
Direct Premium (in \$millions)	\$9.6	\$0.3	\$3.8	\$4.9	\$16.7	\$8.4	\$7.2	\$976.8
Direct Claims (in \$millions)	\$10.5	\$0.1	\$2.0	\$4.4	\$14.4	\$5.1	\$6.2	\$772.7
Direct Loss Ratio	108.9%	25.9%	51.2%	90.0%	86.3%	60.4%	86.9%	79.1%
Member Months	25,875	1,100	10,435	16,810	47,380	25,780	20,390	2,230,375
Earned Premium - PMPM	\$371.75	\$311.31	\$365.79	\$292.61	\$351.54	\$327.45	\$351.51	\$437.95
Incurred Claims - PMPM	\$404.97	\$80.77	\$187.40	\$263.43	\$303.51	\$197.89	\$305.63	\$346.44
All								
Direct Premium (in \$millions)	\$14.7	\$14.9	\$27.0	\$45.5	\$63.5	\$21.3	\$11.5	\$1,674.0
Direct Claims (in \$millions)	\$13.6	\$10.2	\$19.5	\$36.7	\$45.5	\$15.8	\$10.4	\$1,304.1
Direct Loss Ratio	92.5%	68.4%	72.3%	80.6%	71.6%	74.3%	90.2%	77.9%
Member Months	40,535	41,450	82,145	142,165	170,490	57,515	31,225	3,730,860
Earned Premium - PMPM	\$361.66	\$360.41	\$328.56	\$320.21	\$372.30	\$369.72	\$368.78	\$448.68
Incurred Claims - PMPM	\$334.42	\$246.69	\$237.67	\$258.18	\$266.74	\$274.65	\$332.70	\$349.54
Individual Medical								
Direct Premium (in \$millions)	\$15.7	\$45.6	\$72.3	\$126.7	\$146.1	\$40.0	\$13.6	\$2,176.2
Direct Claims (in \$millions)	\$9.4	\$31.1	\$53.9	\$99.0	\$95.4	\$32.8	\$12.8	\$1,630.1
Direct Loss Ratio	60.0%	68.2%	74.5%	78.1%	65.3%	82.0%	94.0%	74.9%
Member Months	57,955	159,520	283,500	495,580	486,705	125,460	42,845	5,932,065
Earned Premium - PMPM	\$271.51	\$285.62	\$255.13	\$255.75	\$300.26	\$319.03	\$316.76	\$366.85
Incurred Claims - PMPM	\$162.87	\$194.93	\$190.09	\$199.79	\$196.00	\$261.50	\$297.61	\$274.79

#### 4.11. Financial Statements for Active Choice

# Active Choice Balance Sheet (in \$millions) 12/31/2013

		Amount
1.	Cash and invested assets	\$111.7
2.	Accident and health premiums due and unpaid	\$18.3
3.	Amounts recoverable from reinsurers	\$0.0
4.	Net credit for ceded reinsurance	\$0.0
5.	All other admitted assets	\$83.9
6.	Total assets	\$213.9
7.	Claims unpaid	\$32.1
8.	Accrued medical incentive pool and bonus payments	\$0.3
9.	Premiums received in advance	\$3.7
10.	Funds held under reinsurance treaties	\$0.0
11.	Reinsurance in unauthorized companies	\$0.0
12.	All other liabilities (balance)	\$88.2
13.	Total liabilities	\$124.3
14.	Total capital and surplus (line 6 minus line 13)	\$89.6
15.	Total liabilities, capital and surplus (line 13 + line 14)	\$213.9

#### **Active Choice Transactions with Providers (in \$millions)**

	Active choice transactions with Freducis (in phillions)	,
		Direct
		Medical
		Expense
		Payment
Cap	itation Payments (in \$millions)	
1.	Medical groups	\$0.0
2.	Intermediaries	\$0.0
3.	All other providers	\$0.0
4.	Total capitation payments	\$0.0
<u>Othe</u>	er Payments (in \$millions)	
5.	Fee-for-service	\$178.5
6.	Contractual fee payments	\$80.2
7.	Bonus/withhold arrangements: fee-for-service	\$0.1
8.	Bonus/withhold arrangements: contractual fee payments	\$0.1
9.	Non-contingent salaries	\$0.0
10.	Aggregate cost arrangements	\$0.0
11.	All other payments	\$3.8
12.	Total other payments	\$262.7
13.	Total (line 4 + line 12)	\$262.7

### **Active Choice Premiums, Enrollment and Utilization**

		Comprehensive Hospital & Medical Group Policies
Tota	I Members at the end of:	
1.	Prior Year	114,360
2.	First Quarter, Current Year	66,825
3.	Second Quarter, Current Year	68,740
4.	Third Quarter, Current Year	61,135
5.	Fourth Quarter, Current Year	54,145
6.	Current Year Member Months	770,170
Tota	I Members Ambulatory Encounters for Year:	
7.	Physician	237,070
8.	Non-Physician	216,225
9.	Total	453,295
10.	Hospital Patient Days Incurred	14,985
11.	Number of Inpatient Admissions	3,675
Pren	niums, Written and Earned (in \$millions)	
12.	Health Premiums, Written	\$303.7
13.	Life Premiums, Direct	\$0.0
14.	Property & Casualty Premiums, Written	\$0.0
15.	Health Premiums, Earned	\$307.2
16.	Life Premiums, Earned	\$0.0
17.	Property & Casualty Premiums, Earned	\$0.0
Clai	ns, Paid and Incurred (in \$millions)	
18.	Amount Paid for Provision of Health Care Services	\$262.7
19.	Amount Incurred for Provision of Health Care Services	\$243.3
Men	ber Ambulatory Encounters for Year - Per 1,000	
7.	Physician	9,836
8.	Non-Physician	587
9.	Total	10,423
10.	Hospital Patient Days Incurred	183
11.	Number of Inpatient Admissions	43
	niums, Written and Earned - PMPM	
12.	Health Premiums, Written	\$394.27
13.	Life Premiums, Direct	\$0.00
14.	Property & Casualty Premiums, Written	\$0.00
15.	Health Premiums, Earned	\$398.91
16.	Life Premiums, Earned	\$0.00
17.	Property & Casualty Premiums, Earned	\$0.00
Clai	ns, Paid and Incurred - PMPM	
18.	Amount Paid for Provision of Health Care Services	\$341.14
19.	Amount Incurred for Provision of Health Care Services	\$315.93

# Active Choice Income Statement, in \$millions December 31, 2013 (Prior to Minimum Loss Ratio Rebate Calculation)

	Comprehensive Hospital and Medical	
	Group	Total
1. Net Premiums	\$307.2	\$307.2
2. Net Investment Income	\$1.5	\$1.5
3. Total Revenue (1 + 2)	\$308.8	\$308.8
4. Accident & Health Benefits	\$243.3	\$243.3
5. Increase in Aggregate Reserves	\$6.1	\$6.1
6. Total (4 + 5)	\$249.5	\$249.5
7. Commissions	\$15.4	\$15.4
8. General Insurance Expenses	\$36.9	\$36.9
9. Insurance Taxes, Licenses and Fees	\$9.2	\$9.2
10. Total Expenses (7 + 8 + 9)	\$61.4	\$61.4
11. Total Benefits and Expenses (6 + 10)	\$310.9	\$310.9
12. Net Gain From Operations Before FIT (3 less 11)	(\$2.1)	(\$2.1)
13. Federal Income Taxes	(\$0.8)	(\$0.8)
14. Net Gain From Operations After FIT (12 less 13)	(\$1.4)	(\$1.4)

## 2013 Active Choice Experience by State Group Medical

Croup incurcus	NY
Small Group	
Direct Premium (in \$millions) Direct Claims (in \$million) Direct Loss Ratio Member Months Earned Premium – PMPM Incurred Claims – PMPM	\$156.2 \$139.1 89.0% 305,725 \$511.05 \$454.83
Large Group	
Direct Premium (in \$millions) Direct Claims (in \$million) Direct Loss Ratio Member Months Earned Premium – PMPM Incurred Claims – PMPM	\$151.0 \$104.3 69.1% 464,445 \$325.10 \$224.50
Total	
Direct Premium (in \$millions) Direct Claims (in \$million) Direct Loss Ratio Member Months Earned Premium - PMPM Incurred Claims - PMPM	\$307.2 \$243.3 79.2% 770,170 \$398.91 \$315.93

### 4.12. Correspondence

The memos and emails on the following pages provide some information about the AHA's activities. Some of the correspondence relates to a potential acquisition of a closed block of long term care business, while other correspondence relates to Active Choice. There is also correspondence describing some of Active Choice's health care reform activities.

#### 4.12.1. Memorandum - Bigger Actuarial Consulting - LTC Acquisition

Date: April 30, 2013

Subject: LTC Acquisition

To: B. G. Bucks, CFO AHA

From: Joe Cool, FSA, MAAA

I have done a preliminary investigation of your acquisition target and have the following observations:

- This is a closed block of LTC business that is close to the same size as AHA's block of LTC.
- The block is administered using a home grown system and we need to make sure that it is compatible with the AHA system.
- Many of the products generate cash values.
- In addition to the purchase price, AHA will need to make sure that policy and claims reserves are adequate and that the assumption underlying cash value calculations are reasonable.
- The current owner of the block has not filed for a rate increase since the inception of the product.

Please let me know how you would like to proceed.

#### 4.12.2. AHA Internal Memorandum - Confidential - Active Choice Acquisition

Date: May 15, 2013

Subject: Active Choice Acquisition

To: B. G. Bucks, CFO AHA

From: G. O. Getter, MBA, Project Manager

I have been working with our consultant and broker on this project and I believe it is an important and exciting opportunity for our organization. Our consultant's actuaries and financial folks asked that I pass along several minor details that they have found while digging around in the publically available data and financials. They say they need to look at these areas more closely during due diligence.

- The company is winding down its large group business.
- They think the medical loss ratio is low.
- Broker fees and administrative costs are a bit high.

Low surplus backed by illiquid assets.

None of these items are insurmountable, especially considering our financial strength and marketing expertise. As a result, I do not see any deal breakers here.

Again, I cannot stress enough the fact that this is an important and exciting opportunity.

#### 4.12.3. AHA Internal Memorandum - Confidential - Pension Plan Funding

Date: September 30, 2013

Subject: Pension Plan Funding

To: B. G. Bucks, CFO AHA

From: I. M. Caring, VP HR

As you know, AHA sponsors a company-paid final-average-earnings defined benefit pension plan for its employees, whereas Active Choice does not sponsor any pension or savings plans for its employees.

Historically, assets in the AHA Salaried Pension Plan fund have been invested in the same manner as assets in the SLIC Salaried Pension Plan fund.

Reports from the AHA Salaried Pension Plan's actuary indicate that, over the past five years:

- (a) Unfunded actuarial liabilities have been somewhat volatile, ranging from approximately \$10.7 million to \$60.8 million (the most recent actuarial report indicated unfunded actuarial liabilities of \$23.7 million. Unfunded actuarial liabilities must be amortised, in accordance with government regulations, by cash contributions.
- (b) Pension expense, which is reported on the company's financial statements, has also been somewhat volatile, ranging from \$15.5 million to \$30.0 million. Pension Expense for the most recent fiscal year was \$28.3 million.

As mentioned above, Active Choice does not sponsor any pension or savings plans for its employees. At this point, we have not had any discussions about how to deal with Active Choice employees, should AHA decide to acquire Active Choice.

#### 4.12.4. AHA E-Mail - Underwriting Procedural Changes

Date: June 30, 2013

Subject: Underwriting Procedural Changes

To: B. G. Bucks, CFO AHA

From: Rick Averse, U/W Manager

As you know, the Underwriting staff is stretched pretty thin due to our involvement in new initiatives and the hold on hiring. As a result, we have come up with some ways to try to keep things moving without increasing our risk.

- The actuarial department will give us trend assumptions and benefit relativities. We will not accept this data from other sources. We are seeing a lot of new benefit designs so the actuaries will be doing more for us than in the past. Also, I have not spoken with them about this since I wanted your opinion and support first.
- We will use discretion on rating cases.
- During busy time, we will have marketing do field underwriting on some of our simpler cases. The marketing staff is very enthusiastic about this idea.

Please let me as soon as you can if we can move ahead. Thanks.

#### 4.12.5. AHA E-Mail - New Claims Administration Update

Date: September 30, 2013

Subject: New Claims Administration System Update

To: B. G. Bucks, CFO AHA; Ace Ventura, FSA, AHA Valuation Actuary; Sal Bidness,

**AHA Chief Marketing Officer** 

From: Bob Smith, AHA VP Operations

Installation of the new claims system is going as well as can be expected. We have gotten a bit behind because some of the IT folks have been reassigned and our vendor found a software problem that will take a couple of weeks to fix.

I just wanted to remind all of you that the last time we performed maintenance on our system, we were unable to pay claims for 2 weeks. As a result, I have approved overtime for the claims processors so that we can bring down our claims inventories as much as possible before we move to the new system. There will probably still be some delay in payments but we think we have minimized the impact.

We had hoped that we would be able to run dual systems so as not to disrupt our operations, but that will not be feasible.

Let me know if you have any questions.

#### 4.12.6. Active Choice E-Mail – Missing Data for Calculation of Risk Adjusters

Date: December 30, 2012

Subject: Mandated Cost Sharing Changes and Data Needed for Calculation of Risk Adjusters

To: M. N. Bags, CFO Active Choice; Bob Jones, VP Active Choice Claim Systems

From: Manny Risk, FSA, Active Choice Pricing Actuary

As you know, there are several difficult challenges that we face as we work toward full implementation of the Affordable Care Act (ACA) in 2014. We've had some problems in the past with our claim system, and changes have always been time consuming and difficult. The two most difficult challenges over the next year are as follows:

- 1) Mandatory cost sharing changes starting in 2014, ACA requires that copayments and deductibles must count toward the out-of-pocket limit for all small and large group plans. This is something we've never been required to do before.
- 2) Data needed for risk adjusters beginning in 2014, a new risk adjustment program will become effective for our small group business as required by ACA. We do not currently have some of the information needed to calculate these risk adjustment factors in our claim system. We have to figure out how to bring it into the system.

We need to start working on these projects immediately. You know how temperamental our claim system is. A new system would cost \$2M to implement. We don't want to go down that path if we can avoid it.

#### 4.12.7. Active Choice E-Mail – Rate Filing

Date: December 10, 2012

Subject: New York State Small Group Rate Filing

To: M. N. Bags, CFO Active Choice

From: Manny Risk, FSA, Active Choice Pricing Actuary

Yesterday, you asked me about the progress of our latest small group rate filing with the New York Department of Financial Services (NYDFS). It has been slow going. NYDFS implemented a new rate filing process starting in 2011. Much more information is now required for each rate filing. Also, five months of lead time are required before the proposed effective date (i.e. we have to file in July for a January 1 effective date). It's much more difficult to implement rate increases than it was a few years ago.

However, we do have a good working relationship with the reviewing actuary. I'll keep negotiating with him to get the filing approved.

#### 4.12.8. Active Choice E-Mail – Sales Conference

Date: December 10, 2012

Subject: Sales Meeting with Brokers

To: B.G. Cheese, President Active Choice

From: B.G. Sales, VP Active Choice Marketing Department

Thank you for making time in your busy schedule to speak at the upcoming sales meeting with our brokers. They have always been good business partners in both the large and small group markets and they are very excited to continue selling our product after full implementation of ACA.

The brokers are very excited about the prospect of selling our small group product on the Exchange in 2014. They think that with our rates published on the Exchange for all to see, they can sell as much as \$50M per year.

As always, they are also interested in our commission rates post ACA implementation. They have heard that there are new fees and assessments going into effect in 2014, some of them related to participation on the Exchange. Naturally, they are concerned about how this might affect their commissions.

Again, thank you for agreeing to speak at the conference. Most of our brokers have a long-standing relationship with us and are willing to work with us through implementation of ACA.

#### 4.12.9. Active Choice E-Mail – ACA Product and Network Changes

Date: December 31, 2012

Subject: Product and Network changes needed for Affordable Care Act implementation

To: B.G. Cheese, President Active Choice

From: Netta Work, VP Active Choice Product Development and Networks

There are two issues related to implementation of ACA that we need to discuss. They affect our networks and our products.

- 1) Coverage of pediatric dental benefits in small group plans starting in 2014, our small group plans must provide pediatric dental coverage. Currently, Networks 'R us doesn't contain any pediatric dentists. We need pediatric dentists in our plans starting in 2014.
- 2) Accurate diagnosis codes for risk adjustment calculations the new risk adjustment calculation for small group plans starting in 2014 requires accurate diagnosis codes on every claim. In the past, the doctors in Networks 'R us haven't always entered these codes accurately.
- 3) Accreditation needed for participation on the small group Exchange we have decided to participate on the small group Exchange starting in 2014. Unfortunately, plans must be accredited by either the Utilization Review Accreditation commission (URAC) or the National Committee for Quality Assurance (NCQA). We are not accredited by either organization. We should start that process as soon as possible. It may take 18 months to become accredited.

Please let me know when you are available to discuss.

#### 4.13. AHA Salaried Pension Plan

The following pages contain financial and demographic information about the AHA Salaried Pension Plan, as well as information about the Statement of Funding Policies and Procedures for the Plan and the Statement of Investment Policies and Procedures for the Plan.

AHA, through its Board of Directors, has delegated responsibility for the day-to-day management of the Plan to the Vice-President, Human Resources and the Chief Financial Officer. The CFO's focus is on financial reporting and cash contribution requirements, the VP HR is largely responsible for all other activities.

#### 4.13.1. Pension Plan - Benefit Provisions and Financial Information

The information on the following pages enumerates the current provisions of the Pension Plan and provides certain historical financial information. Historical financial information is not available prior to January 1, 2009.

#### **AHA Salaried Pension Plan**

Eligibility	Immediate
Vesting	100% after 5 years of plan membership
Normal Retirement Age	65
Early Retirement Age	55 with 5 years of plan membership
Best Average Earnings	Average earnings during 60 consecutive months of highest earnings
Earnings	Base Pay, excluding overtime and bonuses
Normal Retirement Benefit	1% of best average earnings times service years, subject to maximum
Accrued Benefit	Benefit calculated as under the normal retirement benefit formula using best average earnings and service as the valuation date
Early Retirement Benefit	Accrued benefit reduced on an actuarial equivalent basis for all members
Form of Benefit	Single life annuity
Optional Forms of Benefit	None
Indexing	None
Termination Benefit	(1) Lump sum value equal to actuarial present value of accrued pension payable at age 65; or (2) Deferred pension
Pre-Retirement Death Benefit	Lump sum value equal to actuarial present value of accrued pension payable at age 65 to named beneficiary
Disability Benefit	Accrual of service while on long term disability and immediate pension without a reduction upon permanent and total disability

	2009	2010	2011	2012	2013
Participant Summary - January 1					
Active Participants					
(a) count	3,759	4,197	5,017	4,826	5,027
(b) average age	37.8	37.9	39.2	40.3	40.6
(c) average service	7.5	6.9	6	6	5.9
(d) average future working lifetime	20	20	20	20	20
(e) average plan earnings (prior year)	61,800	63,400	72,900	75,000	80,500
Deferred Vested Participants					
(a) count	-	-	-	-	-
Pensioners (incl beneficiaries)					
(a) count	237	251	262	277	315
(b) average age	76.8	76.8	74.2	74.5	74.8
(c) average annual benefit	15,400	15,500	16,100	16,000	16,200

#### Plan Assets (numbers in \$000's) \*

Change in Plan Assets during Prior Year:					
Market Value of Assets at January 1 of prior	-	96,024	110,852	92,799	133,829
year					
Employer Contributions during prior year	-	12,408	16,706	31,980	26,461
Benefit Payments during prior year	-	(4,550)	(5,791)	(7,218)	(5,532)
Expenses during prior year	-	-	-	-	-
Investment return during prior year	-	6,969	(28,969)	16,269	14,531
Market Value of Assets at January 1 of current year	96,024	110,852	92,799	133,829	169,289
Rate of return during prior year	0%	7%	-25%	15%	10.1%
Average Portfolio Mix During Prior Year:					
(a) Domestic Large Cap Equities	0%	40%	39%	33%	36%
(b) Domestic Small Cap Equities	0%	20%	20%	15%	16%
(c) Domestic Fixed Income	0%	30%	30%	42%	39%
(d) International Equities	0%	4%	4%	5%	4%
(e) Real Estate	0%	4%	4%	2%	3%
(f) Cash	<u>0%</u>	<u>2%</u>	<u>2%</u>	<u>3%</u>	<u>2%</u>
(g) Total	0%	100%	100%	100%	100%
Asset Class Returns during Prior Year:					
(a) Domestic Large Cap Equities	0%	5%	-37%	26%	15%
(b) Domestic Small Cap Equities	0%	9%	-45%	28%	5%
(c) Domestic Fixed Income	0%	7%	5%	6%	7%
(d) International Equities	0%	16%	-6%	-17%	13%
(e) Real Estate	0%	6%	-63%	51%	29%
(f) Cash	0%	5%	2%	0%	0%

<sup>\*</sup> numbers may not add due to rounding

2009	2010	2011	2012	2013
\$000's) *				
76,035	92,741	114,322	121,670	144,470
30.658	33.458	39.229	- 41.218	- 48,479
106,694	126,200	153,551	162,888	192,949
96,024	110,852	92,799	133,829	169,289
10,669	15,347	60,753	29,059	23,660
10,138	13,441	19,054	20,278	24,486
-	10,669	15,347	60,753	29,059
-	720	998	,	1,889
-	(2,005)	(2,935)	(12,727)	(5,725)
-	(223)	36,529	(9,432)	(5,152)
-	(908)	10,432	(1,310)	4,153
_	9.875	0	7,656	1,697
_		_		(2,261)
10,669	15,347	60,753	29,059	23,660
6.75%	6.50%	6.50%	6.50%	6.00%
3.75%	4.00%	4.00%	4.00%	3.50%
3.00%	3.00%	3.00%	3.00%	2.50%
		UP 1994		1994 Uninsured
AA15	AA15	AA15	Pensioner Mortality -	Pensioner Mortality -
		None	Generational	Generational
			2	
	Assume all			
	\$000's) *  76,035 30,658 106,694 96,024 10,669  10,138  10,669  10,669	\$000's) *  76,035 92,741 30,658 33,458 106,694 126,200 96,024 110,852 10,669 15,347  10,138 13,441  - 10,669 - 720 - (2,005) - (223) - (908) - 9,875 - (2,782) 10,669 15,347  6.75% 6.50% 3.75% 4.00% 3.00% 3.00% UP 1994 AA15  Assume all Mai	\$000's) *  76,035 92,741 114,322 30,658 33,458 39,229 106,694 126,200 153,551 96,024 110,852 92,799 10,669 15,347 60,753  10,138 13,441 19,054  - 10,669 15,347 - 720 998 - (2,005) (2,935)  - (223) 36,529 - (908) 10,432  - 9,875 0 - (2,782) 381 10,669 15,347 60,753  6.75% 6.50% 6.50% 3.75% 4.00% 4.00% 3.00% 3.00% 3.00% UP 1994 UP 1994 AA15 AA15 None Age 65 Not Applicable Assume all expenses paid Market value of as	\$000's) *  76,035 92,741 114,322 121,670 30,658 33,458 39,229 41,218 106,694 126,200 153,551 162,888 96,024 110,852 92,799 133,829 10,669 15,347 60,753 29,059  10,138 13,441 19,054 20,278  - 10,669 15,347 60,753 29,059  - 10,669 15,347 60,753 3,949 - (2,005) (2,935) (12,727)  - (223) 36,529 (9,432) - (908) 10,432 (1,310)  - 9,875 0 7,656 - (2,782) 381 (19,829) 10,669 15,347 60,753 29,059  6.75% 6.50% 6.50% 6.50% 19,829 10,669 15,347 60,753 29,059  6.75% 6.50% 6.50% 4.00% 4.00% 3.00

<sup>\*</sup> numbers may not add due to rounding

2009 2010 2011 2012 2013

#### Expense Valuation - January 1 (numbers in \$000's) \*

Reconciliation of funded status at valuation date:							
7. Recommend of funded states at valuation	radio.						
(a) Accrued Benefit Obligation (ABO)	(97,661)	(93,740)	(130,024)	(137,815)	(152,350)		
(b) Projected Benefit Obligation (PBO)	(130,116)	(126,200)	(175,847)	(186,598)	(206,454)		
(c) Fair Value of Assets	96,024	110,852	92,799	133,829	169,289		
(d) Funded Status: (b) + (c)	(34,091)	(15,347)	(83,048)	(52,769)	(37,165)		
(e) Unamortized net actuarial gain)/loss	42,093	20,299	90,715	62,417	45,445		
(f) Accrued benefit asset/(liability)	8,002	4,951	7,667	9,647	8,280		
2. Pension Expense:							
(a) Service Cost (beg. of year)	13,048	13,441	22,545	23,994	26,635		
(b) Interest Cost	8,453	8,888	11,687	12,470	13,244		
(c) Expected return on assets	(7,497)	(8,723)	(7,888)	(10,822)	(12,583)		
(d) Amortization of past service cost		·	<u>-</u>	-			
(e) Amortization of net actuarial (gain)/loss	1,454	384	3,657	2,188	1,240		
(f) Pension Expense for year	15,459	13,990	30,000	27,829	28,536		
3. Actuarial Basis and Supplemental Data							
(a) Discount rate	6.00%	6.50%	6.00%	6.00%	5.75%		
(b) Return on assets	7.50%	7.50%	7.50%	7.50%	7.00%		
(c) Salary scale	3.75%	3.50%	3.50%	3.50%	3.00%		
(d) Consumer Price Index	3.00%	3.00%	3.00%	2.50%	2.50%		
(e) Mortality	UP 1994	UP 1994	UP 1994	1994 Uninsured	1994 Uninsured		
	AA15	AA15	AA15	Pensioner	Pensioner		
				Mortality -	Mortality -		
(f) Turnover			None	Generational	Generational		
Y,							
(g) Proportion married and age difference (h) Retirement age	Not Applicable Age 65						
(i) Expenses	Assume all expenses paid by company						
(i) Asset Valuation Method	Market value of assets						
(k) Actuarial Cost Method	Projected unit credit						
(I) Employer contributions	12,408	16,706	31,980	26,461	26,461		
(m) Benefit payments	(4,550)	(5,791)	(7,218)	(5,532)	(5,532)		

<sup>\*</sup> numbers may not add due to rounding

#### AHA Salaried Pension Plan Reconciliation of Plan Participants (2009 - 2013)

	Active	Pensioners/ Beneficiaries	Total	
1. Participants as of January 1, 2009	3,759	237	3,996	
- New Entrants/Rehires	617	-	617	
- Terminated Nonvested	(73)	-	(73)	
- Terminated Vested (Lump Sum Cashout)	(87)	-	(87)	
- Retirement	(17)	17	-	
- Death w/ Beneficiary	(2)	-	(2)	
- Deaths	-	(3)	(3)	
- Net change	438	14	452	
2. Participants as of January 1, 2010	4,197	251	4,448	
- New Entrants/Rehires	1,385	-	1,385	
- Terminated Nonvested	(269)	-	(269)	
- Terminated Vested (Lump Sum Cashout)	(285)	-	(285)	
- Retirement	(11)	11	-	
- Death w/ Beneficiary	-	3	3	
- Deaths	-	(3)	(3)	
- Net change	820	11	831	
3. Participants as of January 1, 2011	5,017	262	5,279	
- New Entrants/Rehires	271	-	271	
- Terminated Nonvested	(269)	-	(269)	
<ul> <li>Terminated Vested (Lump Sum Cashout)</li> </ul>	(163)	-	(163)	
- Retirement	(26)	26	-	
- Death w/ Beneficiary	(4)	3	(1)	
- Deaths	-	(14)	(14)	
- Net change	(191)	15	(176)	
4. Participants as of January 1, 2012	4,826	277	5,103	
- New Entrants/Rehires	459	-	459	
- Terminated Nonvested	(122)	-	(122)	
- Terminated Vested (Lump Sum Cashout)	(88)	-	(88)	
- Retirement	(44)	44	-	
- Death w/ Beneficiary	(4)	2	(2)	
- Deaths	-	(8)	(8)	
- Net change	201	38	239	
5. Participants as of January 1, 2013	5,027	315	5,342	

AHA Salaried Pension Plan Age/Svc/Earnings as of January 1, 2013

			Service (Years) < 5	5-10	10-15	15-20	>20	Totals
Age	< 25	# Participants	220	-	-	-	-	220
(Years)		Average Salary	36,000	-	-	-	-	36,000
	25-35	# Participants	1,125	536	12	-	-	1,673
		Average Salary	55,900	73,500	74,700	-	-	61,700
	35-45	# Participants	598	584	308	34	5	1,529
		Average Salary	79,000	88,400	101,700	98,100	141,100	87,800
	45-55	# Participants	408	263	86	66	68	891
		Average Salary	91,800	101,800	100,200	133,100	131,100	101,600
	55-65	# Participants	320	172	84	58	-	634
		Average Salary	95,100	105,000	85,100	96,000	-	96,500
	> 65	# Participants	72	8	-	-	-	80
		Average Salary	96,000	105,200	-	-	-	96,900
	Totals	# Participants	2,743	1,563	490	158	73	5,027
		Average Salary	70,300	87,500	97,900	111,900	131,800	80,500
		Avg Age	40.6					
		Avg Svc	5.9					
		Avg Salary	80,500					

AHA Pension Plan	7		
Interest Sensitivity	and Cash Flo	ows	
	Actives	Pensioners	<u>Total</u>
Rate	Liabilitiy	Liabilitiy	Liabilitiy
6.00%	144,470,323	48,478,500	192,948,823
5.50%	161,562,552	50,274,659	211,837,211
6.50%	129,537,476	46,794,590	176,332,066
Duration (5.5%)	22.2	7.2	18.4
Convexity (5.5%)	597.9	92.6	470.9
Five Years	Actives	Pensioners	Total
Ending Dec 31	Cash Flow	Cash Flow	Cash Flow
2017	3,664,621	23,878,862	27,543,483
2022	10,487,888	20,551,640	31,039,528
2027	36,101,345	16,216,539	52,317,885
2032	85,602,936	11,052,980	96,655,916
2037	112,201,991	6,132,117	118,334,109
2042	111,018,528	2,575,053	113,593,581
2047	101,999,865	770,824	102,770,689
2052	85,533,058	149,502	85,682,561
2057	61,302,312	17,194	61,319,506
2062	37,699,639	1,091	37,700,730
2067	20,053,305	36	20,053,341
2072	9,241,645	1	9,241,646
2077	3,536,911	0	3,536,911
2082	1,000,803	0	1,000,803
2087	164,549	0	164,549
2092	12,311	0	12,311

#### 4.13.2. Statement of Funding Policies and Procedures - AHA Health

The Company has prepared a Statement of Funding Policies and Procedures ("Statement") to document the governance of the Plan. The Company has also prepared a Statement of Investment Policies and Procedures. Extracts of the Statement are provided below followed by a summary of the Statement contents.

#### 4.13.2.1. Allocation of Responsibilities

The Company has delegated the management of Plan funding as follows:

The Company, acting through Management, will:

- Establish, review and amend, as required, the Statement of Funding Policies and Procedures;
- Select the Pension Consultant and the Actuary;
- Review funding reports prepared by the Actuary regarding the funding of the Plan; and
- Be responsible for the assumption or delegation of any responsibilities not specifically mentioned.

The Pension Consultant and Actuary will:

- Assist, as required, the Company in the preparation of the Statement of Funding Policies and Procedures:
- Present to the Company, as required by the Statement of Funding Policies and Procedures, reviews and reports regarding the funding of the Plan; and
- Comment to the Company on any changes in plan design, contribution flow or pension legislation that may affect the funding of the Plan.

#### 4.13.2.2. Funding Policy Principles

The Company is the primary risk bearer under the Plan. As a result, the funding objective of the Company is the accumulation of assets which will secure the Plan's benefits in respect of service already rendered. The accumulation of assets should be reasonable, without significant volatility or further recourse to the Company's assets.

The Company believes management of the Plan on a going concern basis is the most suitable means to achieve these objectives.

#### 4.13.2.3. Management of Risks

The Company has adopted the following policies to mitigate their risks:

- Going-concern valuations are to be prepared using best estimate assumptions adjusted to include margins for adverse deviation. The Company will consult with the Pension Consultant and Actuary regarding the adoption of margins for adverse deviation.
- Emerging experience will differ from the assumptions made for going-concern purposes. The Pension Consultant and Actuary will monitor emerging experience and recommend

- revisions to the going-concern assumptions as appropriate.
- Plan provisions are managed to mitigate, to the extent possible, demographic and economic risks. Benefit improvements under the Plan will be made with due regard to the Plan's funded status.
- Investment activity will be carried out with due regard to the liability structure of the Fund, to
  the cash flow requirements of the Fund, and to the risks and rewards inherent in the defined
  benefit investments. The Statement of Investment Policies and Procedures documents the
  Company's policies regarding investment risk.

#### 4.13.2.4. Funding Target

The funding target for the Plan is to have a funded ratio (assets divided by liabilities) of 100% on a going-concern basis.

#### 4.13.2.5. Funding Risks

- The Company bears the following funding risks:
- The Plan's demographic experience may differ from best-estimate assumptions.
- The Plan's economic experience may differ from best-estimate assumptions. In addition to investment risks, the Company bears the risks associated with providing a final average earnings benefit.
- The Plan's liabilities are debt-like in nature and have a long term to maturity. As a result of the current investment strategy and nature of the Plan's liabilities, there is the risk of an asset-liability mismatch.

\* \* \* \* \* \* \*

The contents of the Statement follow:

- PURPOSE
- BACKGROUND, PLAN TYPE AND LIABILITIES
- ALLOCATION OF RESPONSIBILITIES
- FUNDING POLICY PRINCIPLES
- FUNDING RISKS
- MANAGEMENT OF RISKS
- FUNDING TARGET
- ELIMINATION OF DEFICITS
- UTILIZATION OF EXCESSES
- FREQUENCY OF VALUATIONS
- COMMUNICATION
- APPENDIX 1 Summary of Roles
- APPENDIX 2 Summary of Liabilities, Assets and Membership Data
- APPENDIX 3 History of SFP&P Review and Amendments

#### 4.13.3. Statement of Investment Policies and Procedures - Excerpts

Following are excerpts from the Statement of Investment Policies and Procedures for the AHA Health Insurance Company's Pension Plan.

#### 4.13.3.1. Investment Risk

- Investment risk is borne by the Company
- Going-concern surplus, subject to any legislative restrictions, can be applied against the Company's Normal Actuarial Cost

#### 4.13.3.2. Allocation of Responsibilities

The Company, acting through Management, will:

- Establish, review and amend, as required, the Statement of Investment Policies and Procedures;
- Select one or more fund managers ("Fund Managers"), the Pension Consultant and the Actuary;
- Select the Custodian to hold pension fund assets;
- Review the performance of the Fund and the Fund Managers at least annually; and
- Be responsible for the assumption or delegation of any responsibilities not specifically mentioned.

#### The Fund Managers will:

• Manage the asset mix and select securities within each Investment Fund Option, subject to applicable legislation and the constraints set out in this Statement.

#### The Pension Consultant and Actuary will:

- Assist, as required, the Company in the preparation of the Statement of Investment Policies and Procedures; and
- Comment to the Company on any changes in plan design or contribution flow that may affect the investment of assets.

#### The Custodian will:

- Fulfil the regular duties required by law of the Custodian in accordance with the Plan;
- Participate in annual reviews of the Statement of Investment Policies and Procedures;
- Present to the Company, at least annually, reviews and reports of investment performance of the Fund Managers;
- Provide the Company with monthly updates on the performance of the Fund Managers;
- Provide the Company with information, on an ongoing basis, about changes at the Fund Managers that could affect investment performance;
- Present to the Company, at least annually, reviews and reports of all investment Fund assets and transactions for the period;
- Monitor actual investments as appropriate to ensure compliance with the Pension Benefits Act; and

• Rebalance the Plan portfolios as requested by the Company.

#### 4.13.3.3. Investment Objectives

- to preserve the capital;
- to provide sufficient funds to meet payments as they become due; and
- to maintain sufficient assets over actuarial requirements to meet unforeseen liabilities.

#### 4.13.3.4. Rate of Return Objectives

- to achieve an average annual rate of return, net of investment expenses, of at least the funding valuation rate of return (currently 6.0%) per year, measured over moving, four-year periods;
- to achieve top third performance, relative to the peer group of fund managers, measured over moving, four-year periods;
- to exceed the passive benchmark for the Pension Fund by 1.00% per annum, measured on a four-year moving average basis; and
- to achieve at least the increase in the Consumer Price Index plus 3%, on a four-year moving average basis.

#### 4.13.3.5. Asset Allocation Guidelines

The following normal policy allocation, and associated range for strategic deviation at any time, has been adopted by the Company:

Percentages of Fund at Market Value	Normal	Minimum	Maximum
Domestic Equities	40%	30%	50%
International Equities	20%	15%	25%
Domestic Fixed Income (duration of 5)	30%	15%	45%
Real Estate (Private)	4%	0%	8%
Private Equity	4%	0%	8%
Cash	2%	0%	4%

Within the ranges noted above, the Fund Managers may actively vary the asset mix in an effort to achieve the investment objectives of the Company.

#### 4.13.3.6. Passive Management Objectives

The rate of return expected to be achieved through passive management of the assets in the Plan Fund will be based on the normal allocation of assets. The passive return shall be set equal to the sum of:

- 45.0% of the S&P 500 Index return for the year;
- 20.0% of the MSCI EAFE Index return for the year; and
- 35.0% of the Barclays Capital Aggregate Bond Index return for the year.

#### 4.13.3.7. Rebalancing

The Company will direct the re-balancing of the assets in the component pooled funds, when it deems rebalancing to be appropriate.

#### 4.13.3.8. Related Party Transactions

A Related Party is:

- (a) the Company, acting as Plan Administrator,
- (b) an officer, director or employee of the Company,
- (c) the funding agent or person responsible for investing the assets of the Plan, or any officer, director or employee thereof,
- (d) an association or trade union representing employees of the Company, or an officer or employee thereof,
- (e) an employer who participates in the Plan, or an employee, officer or director thereof,
- (f) the Plan Participant,
- (g) a person (including spouse or child) directly or indirectly holding more than 10% of the voting shares of the Company,
- (h) the spouse or child of (a) to (g),
- (i) an affiliate of the Company,
- (i) a corporation directly or indirectly controlled by a person in (a) to (h),
- (k) an entity in which a person in (a), (b), (e) or (g), has a substantial investment (where "substantial investment" means more than 25% of the ownership interests in an unincorporated entity, more than 10% of the voting rights of a corporation or more than 25% of the shareholders' equity in a corporation) or,
- (I) an entity with substantial investment in the Company.

Related Parties excludes government or a financial institution holding Plan assets if not the administrator.

The Company, acting as Plan Administrator, shall not, directly or indirectly:

- lend the assets of the Plan to a Related Party or invest those assets in the securities of a Related Party; or
- enter into a transaction with a Related Party on behalf of the Plan, subject to a minimum limit of \$50,000 per transaction and a cumulative limit of \$250,000 in a Plan's fiscal year.

Related Party transactions are acceptable provided they are necessary for the operation of the Plan and are purchased on terms and conditions that are at least as favourable for the Plan as are otherwise available.

#### 4.13.4. Appendix: Economic Data

The investment consultant for AHA's DB Plan has provided the following information:

	Market Value		KRD	KRD	KRD	KRD	KRD	KRD
AHA DB Plan	(\$000)	Duration	1 Yr	3 Yr	5 yr	10 Yr	20 Yr	30 Yr
Plan Actives	144,470	22.2	0.01	0.04	0.15	2.00	7.30	12.70
Plan Pensioners	48,479	7.2	0.20	0.55	1.40	2.75	1.90	0.40
Plan Total								
Liabilities	192,949	18.4	0.05	0.15	0.45	2.20	5.95	9.60

	Equity Indices			y's Capital ond Indices
	S&P 500	MSCI EAFE	Aggregate	Aggregate 10+ Year Maturity
Expected Returns	6.50%	8.00%	2.30%	3.00%
Annualized Volatility	15.05%	16.88%	3.73%	10.02%
Duration	0.00	0.00	5.01	14.19
Skewness	-0.67	-0.77	-0.41	0.03
Kurtosis	4.22	4.51	4.82	5.56

	Equity Indices		Barclay's Capital U.S. Bond Indices		
Correlations	S&P 500	MSCI EAFE	Aggregate	Aggregate 10+ Year Maturity	
S&P 500	1.00				
MSCI EAFE	0.79	1.00			
Aggregate	0.06	0.04	1.00		
Aggregate 10+ Year Maturity	-0.10	-0.05	0.90	1.00	

#### AHA DB Plan:

Fixed Income Portfolio Managers	Current % Allocation	Expected Tracking Error	TE Volatility
Manager E	50%	1.50%	3%
Manager F	50%	2.00%	4%
Benchmark	0%	0%	0%
Equity Portfolio Managers	Current % Allocation	Expected Tracking Error	TE Volatility
Manager G	50%	4.00%	5%
Manager H	50%	3.50%	7%
Benchmark	0%	0%	0%

#### 5. Pryde Property & Casualty

#### 5.1. Overview

Pryde is an Omaha, Nebraska-based U.S. writer with commercial and personal lines products that target niche market customers. The split between commercial and personal lines is 66.7%/33.3% respectively. Pryde is licensed in all 50 states and its products are sold through a unified sales force, led by sales directors responsible for selecting the product, managing the agency delivery system and serving the business in their territory. The company has approximately \$1.0 billion in assets and \$287 Million in Capital and Surplus.

ADMITTED ASSETS	12/31/2013	12/31/2012
Bonds	521,896	388,171
Preferred stock	23,475	21,205
Common stock	9,938	6,870
Cash & short-term invest	38,759	54,641
Other non-affil inv asset	10,846	10,220
Investments in affiliates	28,663	23,397
Total invested assets	633,577	504,504
Premium balances	239,342	148,913
Accrued interest	6,459	4,920
All other assets	152,628	73,999
Total assets	1,032,006	732,337
LIABILITIES & SURPLUS	12/31/2013	12/31/2012
Loss & LAE	318,776	228,254
reserves		
Unearned premiums	226,121	191,026
Conditional reserve funds	202	39
All other liabilities	200,090	49,614
Total liabilities	745,190	468,933
Total Policyholder Surplus	286,816	263,404

### **5.2.** Employee Benefits

Pryde provides basic life, health and disability benefits to its employees while they are employed by the company. These benefits do not continue after employees leave the company.

Pryde does not sponsor any pension or savings plans for its employees.

#### 5.3. Production

Business is produced through independent agents and general agents, as well as exclusive career agents on a national basis. Pryde's strategy is centered on serving highly focused customer segments in both personal and commercial lines of business. Customer service is rated highly as evidenced in consistently high customer retention levels.

#### **5.4.** Target Markets

The commercial business unit focuses on three defined groups of customers:

- School Districts
- Municipalities
- Non-Profit Social Clubs

Of the three markets, School Districts make up the largest portion of the commercial business at approximately 85%, with Municipalities, and Non-Profit Social Clubs comprising 10% and 5% respectively, of the commercial business. The three major lines of business written are:

- Commercial Multi-Peril ("CMP")
- Workers Compensation
- Commercial Auto

The personal lines business unit currently focuses on the major market segment of individuals affiliated with School Districts. Homeowners and Standard Automobile are the major lines of business that make up the personal lines segment. The company writes standard automobile coverage for both customer groups within this relationship market, which consist of total abstainers from alcohol and "responsible choice" households.

Pryde writes approximately \$700 Million of Gross Written Premium.

	2013 Written	2013 Written	2013	2013 Pure	12/31/13 Loss &
	Premium	Premium	% of	Loss	LAE
Line	Direct	Net	NPW	Ratio	Reserves
Commercial MultiPeril	294,650	213,671	41.8	66.5	136,076
Workers Comp	77,111	74,269	14.5	77.2	100,566
Private Pass Auto Liability	72,350	71,861	14.1	39.4	35,931
Auto Physical	59,953	59,610	11.7	43.7	2,981
Homeowners	41,622	30,363	5.9	40.6	7,445
Other Liability Occur	32,620	27,932	5.5	34.9	13,720
Commercial Auto Liability	25,849	24,189	4.7	55.0	15,056
Allied Lines	75,132	4,576	0.9	42.4	730
All Other	17,289	4,153	0.8	46.6	6,272
Totals	696,575	510,623	100.0	56.8	318,776

#### 5.5. Regional Spread

Pryde's direct business is geographically spread throughout the United States with its largest state (California) representing 17% of total premium volume. The next largest states include Texas, (6.0%); Georgia (5.5 %); Florida (5.4%); Mississippi (5.3%); 46 other jurisdictions, (61.3%).

#### 5.6. Exited Markets

Beginning in 2007, Pryde's previous management team followed a growth and acquisition strategy and decentralization of its operations, which led to rate inadequacy and significant adverse loss reserve development. Pryde seeks to develop and expand its total insurance relationship by cross-selling tailored products and services to its targeted customer groups. Pryde experimented with a specialty market, which included non-standard automobile, recreational vehicle and specialty homeowners business, but subsequently exited the specialty market because it was not consistent with Pryde's targeted customer groups. The specialty markets contained customer groups whose nature was to purchase a single product at a time, often based on price.

Prior to 2011, Pryde had experienced a significant reduction in its capital and surplus position. The reduction was due primarily to a decline in underwriting performance from aggressive growth in these specialty lines of business, followed by significant loss reserve charges. The costs associated with buying and subsequently selling or discontinuing those specialty businesses further contributed to the reduction. Exiting the specialty markets resulted in significant improvement in earnings in 2012, driven by an improvement in underwriting results, despite reporting continued adverse loss reserve development.

#### 5.7. Underwriting Results

	Net								
	UW	Loss Ratios		Expense Ratios					
	Income	Pure	Pure Loss&		Net	Other	Total	Div.	Comb
Year	(\$000)	Loss	LAE	LAE	Comm	Exp.	Exp.	Pol.	Ratio
2009	-48,325	67.5	13.5	81.0	9.8	20.5	30.3	0.0	111.3
2010	-83,108	77.0	19.6	96.6	3.9	22.8	26.6	0.0	123.2
2011	-64,932	74.9	15.1	90.0	6.8	20.7	27.5	0.0	117.5
2012	-3,336	57.0	14.6	71.6	8.3	18.0	26.3	0.1	97.9
2013	-646	56.8	13.1	69.9	11.7	16.5	28.1	0.1	98.1
5-Yr Avg		66.2	15.0	81.2	8.4	19.5	27.9	0.0	109.1

Pryde has been challenged by significant adverse loss reserve development in recent years. This has impacted both non-continuing and continuing books of business.

	Original	Developed	Developed	
	Loss	Through	to	
	Reserves	2011	Orig (%)	
2008	289,253	366,439	26.7%	
2009	284,434	364,107	28.0%	
2010	207,151	291,178	40.6%	
2011	174,612	200,808	15.0%	
2012	204,842	210,589	2.8%	
2013	290,194	290,194		

#### **5.8.** Investment Income

Pryde has generally produced favorable investment yield from a predominantly fixed income portfolio that has outperformed industry composite averages. Invested assets are comprised primarily of a bond portfolio diversified among corporate, tax-exempts, and U.S. Government Obligations. The company's stated investment strategy is simple: preserve capital while maintaining the predictability of return on investment without incurring undue risk. Hence, the strategy focuses on fixed income rate investments held for long term investment. Affiliated investments relate to Pryde Services, a wholly owned entity that provides services for Pryde Property & Casualty.

Asset	Assets
Class	(2000)
Long-Term bonds	521,896
Stocks	33,413
Affiliated Investments	28,663
Other Inv Assets	56,064
Total	640,036

Asset	% of Total	Mkt Val to Stmt	Avg. Maturity	Class 1-2	Class 3 - 6	Struc. Secur.	Struc. Secur.
Class	Bonds	Val(%)	(Yrs)	(%)	(%)	(%)	(% of PHS)
Governments	22.3	1.8	4.7	100.0			
States, terr & poss	28.8	1.0	7.1	100.0		71.1	37.2
Corporates	48.9	1.6	5.7	98.5	1.5	6.5	5.8
Total all bonds	100.0	1.5	5.9	99.2	0.8	23.6	43.0

#### **5.9.** Catastrophe Exposure

The group's primary catastrophe exposure stems from both hurricanes and earthquakes. However, these exposures are mitigated through excess of loss reinsurance, as well as catastrophe protection that has enabled the group to improve its net catastrophe leverage to a very manageable level. As a result, the group's estimated net probable maximum losses (PML) stemming from a combined 250-year hurricane and a 250-year earthquake depicted in a PML analysis represents approximately 5% of capital and surplus.

#### 5.10. Reinsurance

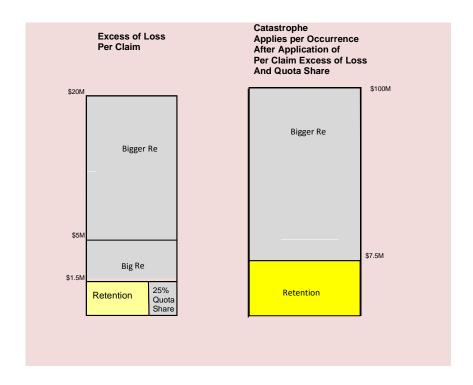
Pryde reinsures with high-quality reinsurers.

#### 5.11. Property Risks

Pryde cedes 25% of the ground-up first \$1.5 million/claim via a quota-share reinsurance treaty with SHARE Re. In addition Pryde has a multi-line working layer excess-of loss reinsurance treaty with BIG Re, where Pryde cedes each \$3.5 million in excess of \$1.5 million per claim for property risks, subject to a \$7.5 million per occurrence aggregate limit. Protection is further supplemented with additional coverage provided by BIGGER Re:

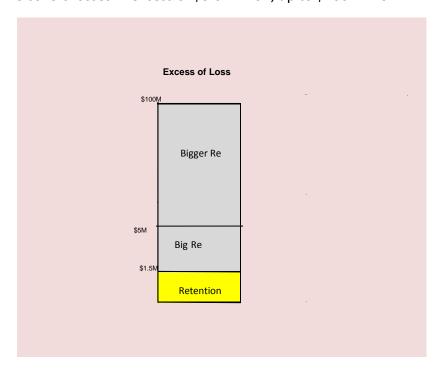
- Excess layer of \$15 million in excess of \$5 million per claim; and
- Property catastrophe cover for \$92.5 million in excess of \$7.5 million per Occurrence Aggregate Limit.

The diagram below depicts the coverage pictorially.



#### 5.12. Casualty Risks

Working layer treaty reinsurance with Big Re includes one multi-line \$3.5 Million excess of \$1.5 Million for casualty risks and \$3.5 Million per occurrence. An additional excess of loss treaty with BIGGER Re covers losses in excess of \$5.0 Million, up to \$100 million.



#### 5.13. Total Available Capital

The proper assessment of an insurer's true financial strength requires appraisal of its total balance sheet on an integrated basis under a system that depends upon realistic values (economic values) and consistent treatment of both assets and liabilities, and that does not generate a hidden surplus or deficit. To convert the statutory capital figures to economic capital levels, adjustments are necessary. Statutory accounting principles deviate from economic valuations in several ways, including, but not limited to, the following:

- Acquisition Costs are not deferred
- Bonds in good standing are valued at amortized value--not market value
- Loss and loss adjustment expense reserves do not reflect the time value of money
- Carried statutory reserves do not reflect inherent reserve margins (e.g. carried reserves being redundant or deficient)

#### **5.14.** Rating Agency Review

Best's rates Pryde as an A-, reflecting the company's adequate capitalization, improved operating results and liquidity and its niche market presence. The Company's positive rating also considers its nationally recognized position in its core business. Pryde's strong reputation and dedicated product and service capabilities have enabled it to sustain strong market penetration. The rating also reflects the corrective actions taken by management to improve operating performance and enhance balance sheet strength.

Partially offsetting these positive factors are the company's significant adverse reserve development on prior accident years and its dependence on reinsurance. A.M. Best remains concerned over the potential for additional adverse loss reserve development and its impact on near-term operating performance and overall capitalization.

Pryde's overall capitalization as measured by Best's Capital Adequacy Ratio (BCAR) is adequate for its A- rating.

### **5.15.** Economic Capital Model

Pryde had retained Hawthorne Consulting in 2012 to aid the company in developing a "risk and capital" model that would aid management in gauging the adequacy of overall capitalization of the company and in allocating resultant capital to target lines of business or niche business segments. Pryde wishes to gauge the risk adjusted return on capital (RAROC) by segment to aid in its business planning for 2013 and beyond. In essence, Pryde's goal is to improve its ability to better manage capital and return. Underlying this goal, Hawthorne advises on three underlying themes:

- Capital Productivity
- Capital Protection
- Capital Adequacy

Hawthorne's thought leadership focuses on the notion that there is a trade-off between having enough capital to minimize insurance company failures and having the minimum amount of capital so capital can be deployed. As such, Hawthorne recommended using the RAROC approach. In essence, this approach considers both how much Pryde is earning on the capital that is committed to the business and how much capital is needed to ensure that policyholders are paid in the event of a stress scenario. Hawthorne argues that RAROC addresses the aforementioned trade-off between capital productivity and capital adequacy. To set a target or requirement for the amount of capital that should be held by an insurance company or group requires a clear vision of the purposes for which capital is held. Effectively defined capital requirements serve several purposes, including, but not limited to:

- Providing funds so Pryde is able to honor its obligations during adverse contingent events.
- Motivating a company to avoid undesirable levels of risk
- Promoting a risk management culture to the extent that capital requirements are a function of actual economic risk

Economic capital should be what Pryde requires for ongoing operations and what it must hold in order to gain the necessary confidence of the marketplace, its policyholders, its investors, and its regulatory supervisors. The operations of Pryde, on the other hand, after the net effect of all the inherent risks, must yield a rate of return deemed reasonable by the providers of the insurer's capital.

### 5.16. Appendix

- Consultant's Report Executive Summary and Recommendations @9/30/12
- Consultant's Report Background, Terminology, Considerations

#### 5.16.1. Consultant's Report- Executive Summary 9/30/12

Pryde has asked Hawthorne to consult and help in developing a "risk and capital" model that would aid management in gauging the adequacy of overall capitalization of the company and in allocating capital to target line of business or niche business segments to aid in its business planning for 2013 and beyond.

In considering the trade-off between having enough capital to minimize insurance company failures and having the minimum amount of capital so capital can be deployed, Hawthorne recommends a risk adjusted return on required capital (RAROC) approach in measuring returns. This approach considers both how much Pryde is earning on the capital that is committed to the business and how much capital is needed to ensure that policyholders are paid in the event of a stress scenario.

Economic capital is the capital required to buffer the policyholder from default up to a target solvency or rating standard (e.g. A.M. Best's). We estimated capital requirements for Pryde based on a 99.4% VaR risk metric (i.e., capital needed to assure that there is only a 0.6% chance all of the capital will be depleted). This is consistent with an A+ rating.

We used the following two risk metrics in gauging Pryde's Capital Needs:

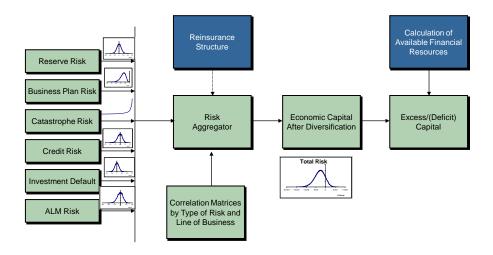
- Value at Risk (VaR)
- Tail Value at Risk (TVaR)

Briefly, the "Value at Risk" (VaR) risk metric measures a percentile of a cumulative probability distribution (e.g., the 95th percentile of the distribution is the value for which there is a 5% probability of exceeding that value).

TVaR is similar to VaR risk metric but considers all possibilities beyond the above VaR threshold in that it reflects the average of all possible values beyond a defined percentile (e.g., TVaR 95% is the arithmetic average of all possible VaRs beyond the 95th percentile of the distribution).

Economic capital assessment was based on a multi-step process beginning with a bottom-up analysis of individual risks.





The first column below reflects how much stand-alone capital is needed per the 99.4% VaR for each risk separately. This totaled a sum of \$377.1M of economic capital. In consideration of correlation and diversification effects, this sum is reduced by 30.5% resulting in a total needed capital of approximately **\$262.2 Million.** 

RISK TYPE	STANDALONE ECONOMIC CAPITAL REQUIREMENTS	DIVERSIFIED CAPITAL AS A PERCENT OF STANDALONE	DIVERSIFIED ECONOMIC CAPITAL REQUIREMENTS
RESERVE	\$90.6	73.9%	\$66.9
BUSINESS PLAN	\$112.3	83.5%	\$93.8
CATASTROPHE	\$22.2	51.7%	\$11.5
CREDIT (RECOVERABLES)	\$48.4	75.0%	\$36.4
INVESTMENT	\$22.3	15.6%	\$3.5
ALM	\$81.2	61.8%	\$50.2
TOTAL	\$377.1	69.5%	\$262.2

This, compared to the available economic capital of \$269.9 Million, places Pryde in a favorable capital position relative to the risk metrics utilized.

Line of business and niche contributions to the overall capital needs of Pryde appear below. The marginal contribution percentages are then used to allocate the overall Pryde capital by line of business and niche. The exhibit below displays the indicated \$262.2 million allocated to lines of business. In addition, the line of business expected RAROCs are computed below. RAROCs are based on expected 2013 profitability per Pryde's business plan relative to the allocated capital.

Note- The TVaR 98.0% risk metric was used in this approach, as we deemed it appropriate to consider the extreme tail in the respective risk distributions in developing the inherent contribution and hence allocation share. As the line of business marginal contributions to the Company's overall capital needs are sensitive to extreme events, we feel this approach makes sense.

Line of Business	Marginal Capital	Allocated Economic Capital	Economic Profit	Premium	Economic Profit (%Prem)	Marginal Returns	Return on Economical Capital	Premiums to Economic Capital
CPP-Prop	39,454	54,756	641	116,821	0.5%	1.6%	1.2%	2.1
Homewoners	7,407	10,279	540	32,306	1.7%	7.3%	5.2%	3.1
Personal Auto	14,282	19,822	4,035	132,049	3.1%	28.3%	20.4%	6.7
Workers Compensation	34,961	48,521	10,097	75,722	13.3%	28.9%	20.8%	1.6
BAP	9,043	12,550	3,418	28,432	12.0%	37.8%	27.2%	2.3
Umbrella	14,289	19,831	11,564	23,996	48.2%	80.9%	58.3%	1.2
CPP-Liability-Other	25,751	35,738	9,811	53,763	18.2%	38.1%	27.5%	1.5
CPP-Liability-SLC	31,899	44,271	4,795	34,425	13.9%	15.0%	10.8%	0.8
CPP-Liability-SM	11,828	16,415	2,444	11,708	20.9%	20.7%	14.9%	0.7
Total		262,184	47,344	509,221	9.3%		18.1%	1.9

							Premiums
		Allocated			Economic	Return on	to
	Marginal	Economic	Economic		Profit	Economic	Economic
Niche	Capital	Capital	Profit	Premium	(% Prem)	Capital	Capital
School Districts	107,494	148,100	23,538	246,769	9.5%	15.9%	1.7
Municipalities	18,951	26,110	4,434	36,435	12.2%	17.0%	1.4
Social Clubs	41,357	56,980	14,798	61,662	24.0%	26.0%	1.1
Personal Lines	22,497	30,995	4,574	164,355	2.8%	14.8%	5.3
Total		262,185	47,344	509,221	9.3%	18.1%	1.9

#### **5.16.1.1. Observations**

Social Clubs are providing a greater RAROC than the other three niches. Growing this niche, all other things equal, would contribute to a higher total RAROC.

The optimum target market distribution by niche would be such that the marginal returns are identical by niche, all others things being equal.

Pryde is expected to write at a little more than a 1.9 to 1 premium to capital ratio with an 18.1% return on the required capital of \$262.2 Million. The marginal RAROCs suggest that the Company may optimize its overall RAROC by altering its mix by niche, given the current capital structure, specifically by growing in Social Clubs and declining in the others. The optimum equilibrium mix by niche would follow until all of the niches generate the same marginal RAROCs.

Note –Our analysis considers business plan risk as the uncertainty of deviating from the business plan targets/baselines. Our detailed approach and assumptions are presented in the following sections of the report.

#### 5.16.2. Consultant's Report - Background, Terminology, Considerations

Prior to 2009, Pryde had experienced a significant reduction in its surplus position due primarily to a decline in underwriting performance from aggressive growth in non-core lines of business followed by significant loss reserve charges.

Pryde's goal is to improve its ability to better manage capital and return. Underlying this goal, Hawthorne defines three underlying themes:

- Capital Productivity
- Capital Protection
- Capital Adequacy

#### 5.16.2.1. Degree of Protection

The strength of an insurer's capital can be thought of as the probability that a company's assets backing liabilities, together with capital, will be sufficient to satisfy all of its obligations to its policyholders. It should be noted that it is virtually impossible to have enough capital to totally prevent insurance company failures. Excess capital, while affording perhaps additional solvency protection, would impede capital investment in insurers because the additional cost of capital may not be compensated for in the pricing of the insurer's policies. Hence excess capital has the potential to either raise the cost of insurance to a company's policyholders or to prevent a market from existing. Insufficient capital, in comparison with that deemed necessary by modeling all of the appropriate risk factors at an adequate level of confidence, may result in inadequate pricing and will increase the exposure of the insurer, over time, to the risk of insolvency. Hence there is a constant trade-off between having enough capital to minimize

insurance company failures and maintaining the minimum amount of capital so capital can be deployed effectively.

#### 5.16.2.2. Time Horizon Considerations of Capital Needs

An insurer's financial statements are usually prepared at the end of each fiscal year—a considerable task that requires significant preparation time. Often there is a significant delay of several months between the statement date and the actual finalizations of company financials. This aspect is also followed by the timing and implementation of business plan actions, which may be corrective or opportunistic with regards to company decision-making. In the meantime, during the decision-making phase, the company would continue to operate and conduct business. We suggest an appropriate time horizon for considering an insurer's capital needs as one year from the evaluation date of the existing risk and return profile. This time horizon should not be confused with the full term of all of the assets and obligations of the insurer. The amount of required economic capital must be sufficient with a high level of confidence to meet all obligations for the time horizon as well as the present value at the end of the time horizon of the remaining future obligations.

In the course of this type of analysis, considerations should always be given to the notion that there is a trade-off between having enough capital to minimize insurance company failures and maintaining the minimum amount of capital so that capital can be deployed elsewhere, more effectively. As such, we recommend using a risk adjusted return on required capital (RAROC) approach in measuring returns. Our RAROC approach in essence considers both how much Pryde is earning on the capital that is committed to the business and how much capital is needed to ensure that policyholders are paid in the event of a stress scenario. Hence RAROC addresses the aforementioned trade-off between capital productivity and capital adequacy.



### **Three Specific Themes**

- · Are we earning an acceptable return on capital?
- Are we generating enough capital to support any expansion plans?
- Based on risk-adjusted rates of return on capital, ir what lines of business, products, or niches should we expand or contract?

#### **Capital Protection**

- · Have we identified our risks, and can we
- produce a distribution of outcomes?

   Which risks contribute the most to the
- capital needs of Pryde?

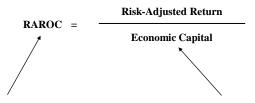
   Do we have the optimum reinsurance structure in place?

- Do we have the right level of capital given our risks and solvency standards?
- What level of capital do we need to target or attain a specific AM Best rating?



#### Risk Adjusted Return on Capital

An economic capital and RAROC framework provides the measures needed to better manage risk and return.



How much am I earning on the capital that I have committed to the business to satisfy the shareholder (policyholder)?



Compare RAROC with . Hurdle Rate

How much capital is needed to ensure that policyholders are paid in the event of a stress scenario?

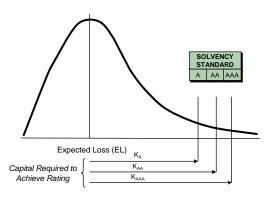


CAPITAL ADEQUACY

Compare Economic Capital with Available Financial Resources (AFR)



ECONOMIC CAPITAL IS DEFINED AS THE AMOUNT OF CAPITAL REQUIRED TO ACHIEVE A TARGET SOLVENCY STANDARD BASED UPON THE FIRM-WIDE LOSS DISTRIBUTION



- Economic capital is the capital required to buffer the policyholder from default up to a target solvency standard (and thus confidence interval)
- For the same risk profile, an institution targeting a better credit rating will need to hold more capital (AA institutions require more capital than single A)

#### 5.16.2.3. Uncertainty vs. Volatility

It is generally accepted that uncertainty risk, the risk that models used to estimate claims or other relevant processes are mis-specified, (e.g., best point estimate of loss reserves) must be considered for the full remaining term of the insurance contracts. Uncertainty risk is widely believed to be non-diversifiable because it cannot be relatively reduced by increasing insured portfolio size. On the other hand, some argue that volatility risk, the risk of random fluctuations in either the frequency or severity of contingent events, can be ignored in the long run, because these risks can be diversified away in the future. We believe that this notion is not universally true as some volatility risk cannot be diversified away. While true that in fully efficient markets volatility would not be valued in the calculation of the fair value of a set of projected future cash flows, insurance markets are relatively inefficient. Hence capital supports both types of risk; both volatility and uncertainty. We doubt that every risk can be classified as one or the other in practice, as many types of risk may have both systematic and diversifiable elements. Moreover, this distinction may also depend on insurer size and the characteristics of the markets in which it operates.

#### 5.16.2.4. Consideration of Risk Transfer

Last but not least, total capitalization should also take into account risk transfer mechanisms that reduce the risks of the insurer, such as the purchase of reinsurance, hedging, and securitization. Although the role of reinsurance is to transfer underwriting and reserve risks, consideration should still be given to recoverable risk as previously defined. It is also important to analyze the risk transfer structure in any reinsurance contract. Finite risk deals, for example, are structured to provide financing by reinsurers with, at times, a minimal amount of risk transfer.

Hedging can be considered natural or constructed. Natural hedges occur when a company can offset risks in different lines of business. Financial hedges on the other hand, involving the use of derivative instruments, can offset certain financial guarantees with respect to interest rates and or equity markets.

#### 5.16.2.5. Correlation and Diversification

Our risk-based approach to required capital treats each source of risk separately (e.g., initial capital amounts are determined in silos). Total Capitalization, however, needs to recognize the relationships among the various risk sources that can affect the company's operations. As such, total capitalization should reflect risk concentration, diversification, and interdependencies.