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Financial Analysis Solvency Tools

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Agenda

- ***Overview of Financial Analysis Solvency Tools (FAST) Ratios***
- ***Explanation and calculation of ratios***
- ***Financial Analysis scoring system and implications***
- ***Supervisory Measures***



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DuPont Formula

Return on Equity (RoE)

= Net income / Equity (NI/E)

= (Net income/sales)(sales/assets)(assets/equity)

***= Net profit margin x asset turnover
x finance leverage multiplier***



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Sustainable Growth Rate = g

Risk Based approach

- *Very basic risk assessment factor*

$$g = RR \times RoE$$

- *RR is the retention rate*

$$RR = 1 - \text{Dividend declared} / NI$$

- *RoE is the return on equity*

$$RoE = NI / E$$



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Financial Analysis of a Company

Four Major Areas of Financial Analysis

- ***Internal liquidity: company's ability to pay its short-term liabilities***
 - ***Current ratio = current assets / current liabilities***
- ***Operating performance: management performance***
 - ***Equity turnover = Net sales / average equity***
 - ***Gross profit margin = gross profit / net sales***
 - ***Return on equity = net income / average total equity***



Financial Analysis of a Company (continued)

- ***Risk: uncertainty of company's income and profit***
 - ***Sales variability = $\Delta \text{ sales} / \text{average sales}$***
 - ***Business variability = $\Delta \text{ operating income} / \text{mean operating income}$***
 - ***Debt-equity ratio = long-term debt / total equity***
 - ***Operating leverage = $\% \Delta \text{ operating earnings} / \% \Delta \text{ sales}$***
- ***Growth analysis: sustainable growth***
 - ***$G = RR \times RoE$, where *RR* is retention ratio and *RoE* is return on equity***



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Overview of Financial Analysis Solvency

Tools – Insurance

- ***Helps regulators target resources on more risky companies***
- ***To be supplemented by in-depth financial analysis and/or on-site examinations***
- ***22 ratios: within “normal range”- no score***
 - ***Outside normal range: graduated score from 0 to 175 (mostly to 100)***
 - ***The higher the score, the more risky the company***
- ***Ratios may be used to compare a company against national averages (peer to peer comparison)***
 - ***Detailed annual or 5-year analysis***
 - ***Simplified quarterly comparisons***



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Ratios (Indicators)

- ***Grouped into four areas***
 - ***Profitability ratios***
 - ***Leverage ratios***
 - ***Asset and Liquidity ratios***
 - ***Miscellaneous ratios***



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Profitability Ratios

- *Ratio P1 – Investment yield deviation*
- *Ratio P2 – Change in combined ratios*
- *Ratio P3 – Gross expenses and commissions to gross premium written*
- *Ratio P4 – Change in gross expenses and commissions*



Leverage Ratios

- ***Ratio L1A – Gross premiums written to Equity***
- ***Ratio L1B – Net premiums written to Equity***
- ***Ratio L2A – Change in gross premiums written***
- ***Ratio L2B – Change in net premiums written***



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Leverage Ratios (continued)

- *Ratio L3 – Surplus aid to Equity*
- *Ratio L4 – Reinsurance recoverable on paid losses to Equity*
- *Ratio L5 – Reinsurance recoverable on unpaid losses to Equity*
- *Ratio L6 - Reserves to Equity*
- *Ratio L7 – Two-year reserve development to Equity*



Asset and Liquidity Ratios

- ***Ratio A1A – Affiliated investment to Equity***
- ***Ratio A1B – Affiliated receivables to Equity***
- ***Ratio A2 – Miscellaneous receivables to Equity***
- ***Ratio A3 – Non-investment grade bond/debt exposure***
- ***Ratio A4 – Other invested assets to Equity***
- ***Ratio A5 – Change in liquid assets***
- ***Ratio A6 – Change in gross agents' balance***



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Miscellaneous Ratios

- *Ratio M1 – Cash flow from operations*
- *Ratio M2 – Change in Equity (Capital & Surplus)*



Ratio P1 – Investment Yield Deviation

- *Compares the investment yield of insurance assets to industry average*
- *Investment yield = Net investment income / average cash and invested assets*
- *Too much deviation from the industry average may mean:*
 - *Low yield: non-investment grade, non-performing assets, investment management needs improvement, home/branch/sales offices are recorded as invested assets, etc.*
 - *High yield: non-investment grade, extraordinary dividend payments from parents, affiliate and subsidiaries; huge realized capital gains, booking income that are not yet realized, windfall profit from highly speculative investments, etc.*



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Calculation of Ratio P1

Investment Yield Deviation from Industry Average

A – Net Investment Income

B – Cash and Invested Asset

C – Prior year Cash and Invested Asset

D – Investment Yield = $100A[(B+C)/2]$

E – Average Industry Average (source: market)

F – Investment Yield Deviation = D-E



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Ratio P2 - Change in Combined Ratio

- *The combined ratio measures underwriting profitability*
- *Combined ratio = loss & LAE ratio + expense ratio + policyholder dividend ratio*
- *Change in combined ratio is % increase of current (this) year's ratio over the prior (last) year's ratio*
- *Combined ratio < 100% indicates underwriting profit*
- *Decline in combined ratio indicates improvement in underwriting results*
- *Increasing trend of changes in combined ratio signals deterioration of profitability*



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Calculation of Ratio P2

Change in Combined Ratio = CCR

A – Earned Premium; H – Prior Year's

B – Incurred Losses; I – Prior Year's

C – Incurred Loss Expenses; J – Prior Year's

D – Other Underwriting Expenses Incurred; K – Prior Year's

E – Aggregate Write-in for Underwriting Deductions; L- Prior Year's

F - Dividend to Policyholders; M – Prior Year's

G – Net Premium Written; N – Prior Year's

1 – Current year's Combined Ratio = $100[(B+C+F)/A+(D+E)/G]$

2 – Prior year's Combined Ratio = $100[(I+J+M)/H+(K+L)/N]$

CCR = 1-2 (1 minus 2)



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Ratio P3 – Gross Expenses and Commissions to Gross Premium Written

- ***Gross expenses and commissions: costs of acquiring and underwriting business***
- ***This ratio is expense ratio relative to gross premium written***
- ***Normal range is 15% – 35%***
- ***High ratio indicates some degree of inefficiency in managing and controlling cost***
- ***High ratio may also indicate inadequacy of premium rates (deficient pricing)***



Calculation of Ratio P3

Gross Expense and Commission/Gross Premium Written

A – Direct Commission

B – Reinsurance Assumed Commission

C – Contingent Commission, Direct and Indirect

D – Membership fees

E – General Expenses

F – A & H Reimbursements

G – Aggregate Write – ins

H - Rent Expenses (Sales/underwriting Offices)

I – Direct Premiums Written

J – Reinsurance Premium (Assumed from Affiliated companies)

K – Reinsurance Premium (Assumed from unaffiliated companies)

L– Gross Expenses = A+B+C+D+E+F+G+H

M – Gross Premium Written = I+J+K

N – Gross Expense/Gross Premium Written (P3) = 100 L/M

Normal range: 15% – 35%



Ratio P4 – Change in Gross Expenses and Commissions

- ***This ratio is % increase in a company's gross expenses and commissions***
- ***Too big an increase is cause of concern; may indicate:***
 - ***Inefficient cost management***
 - ***Premium rates (pricing) are no longer adequate/competitive***
 - ***Cash-flow underwriting***
 - ***Abnormal management cost and service fees***
 - ***Sales campaign, expansion & promotion***
 - ***Other non-recurring costs***



Calculation of Ratio P4

Change in Gross Expenses & Commissions

A – Direct Commission; I – Prior Year’s

B – Reinsurance Assumed Commission; J – Prior Year’s

C – Contingent Commission, Direct and Indirect; K – Prior Year’s

D – Membership fees; L – Prior Year’s

E – Other Insurance Business Expenses; M – Prior Year’s

F – A & H Reimbursements; N – Prior Year’s

G – Aggregate Write – ins; O – Prior Year’s

H – Rent Expenses (Own Offices); P – Prior Year’s

Q – This Year’s Gross Exp & Commissions = A+B+C+D+E+F+G+H

R – Prior Year’s Gross Exp & Commissions = I+J+K+L+M+N+O+P

S – Change in Gross Expenses & Commissions = 100 (Q-R)/R



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Ratio L1A – Gross Premium Written to Equity

- ***Equity = Capital and Surplus***
- ***Gross and net premium written: measures of the marketing & sales efficiency of the insurance company***
- ***Ratios: measure asset turnover***
 - ***Reflective of management effectiveness in using capital***
 - ***Also reflect on the quantum of risk management is willing to take (one of the ratios to consider in determining prudent level of the company's risk tolerance)***



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Calculation of Ratio L1A

Gross Premium Written to Equity

A – Direct Premium

B – Reinsurance Assumed (Indirect) Premium, Affiliated Companies

C – Reinsurance Assumed (Indirect) Premium, Unaffiliated Companies

D – Capital and Surplus (Equity)

E – Gross Premium Written = A+B+C

F – Gross Premium Written/Equity = 100 (E/D)

- It is prudent to separate business done with affiliates from unaffiliated companies because the risks inherent between these types of business activities are different.***



Ratio L1B – Net Premium Written to Equity

- *Net premium written =
gross premium written – reinsurance ceded*
- *Ratio L1B also reflects on management's
willingness to leverage its C & S to generate
sales revenue*
- *It is important that Ratio L1A does not exceed
Ratio L1B by a wide margin*
 - *This would indicate that an abnormal (large) amount of
the company's capital and surplus comes from
reinsurance*



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Calculation of Ratio L1B

Net Premium Written to Equity

A – Net Premium Written

B – Capital and Surplus

C = Net Premium Written/Equity = 100 A/B



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Ratio L2A – Change in Gross Premium Written

- *The change is expressed as a percentage of gross premium written in the prior year*
- *It measures sales variability*
- *Significant increase or decrease indicates instability in the company's operation*
- *It is normal to observe large increases during the first few years of introduction and marketing of a product*
 - *Such variability is covered by the surplus of the company*



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Calculation of Ratio L2A

Change in Gross Premium Written

A – Gross Premium Written, Current Year (Period)

B - Gross Premium Written, Prior Year (Period)

***C – Change in Gross Premium Written =
100 (A-B)/B***



Ratio L2B – Change in Net Premium Written

- *The change is expressed as a percentage of net premium written in the prior year*
- *Similar to the L2A ratio, it measures sales variability*
- *Significant increase or decrease indicates instability in the company's operation*
- *In addition, significant increases may indicate that the company entered into unfamiliar territories*
 - *Thus, ceding more and more insurance to reduce net premiums (and risk retention)*
 - *Watch also for possible cash-flow underwriting practice*



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Calculation of L2B

Change in Net Premium Written

A – Net Premium Written, Current Year (Period)

B - Net Premium Written, Prior Year (Period)

*C – Change in Net Premium Written =
100 (A-B)/B*



Ratio L3 – Surplus Aid to Equity

- ***Surplus aid is the estimated amount of commissions on unearned ceded reinsurance premiums***
- ***Technically, this amount belongs to the reinsurer***
 - ***But it may be retained by primary (ceding) insurer according to the terms of cession (Reinsurance)***
- ***If a large portion of Capital & Surplus depend on surplus aid***
 - ***Continued solvency of primary (ceding) insurer depends on the continued accommodation and co-operation of the reinsurer***
 - ***Financial distress of the reinsurer seriously threatens the solvency of the primary (ceding) insurer***



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Calculation of Ratio L3

Surplus Aid to Equity

A – Ceded Reinsurance Commission

B – Reinsurance Ceded Premium

C – Total Ceded Unearned Premium

D – Capital and Surplus

E – Surplus Aid = $A \times (C/B)$

F – Surplus Aid to Equity = $100 E/D$



Ratio L4 – Reinsurance Recoverable on Paid Losses to Equity

- ***Reinsurance recoverables on paid losses and paid LAE include***
 - ***Current balances: arise due to timing difference between billing and settlement dates***
 - ***Aged (past due) balances indicate reinsurer's***
 - ***poor operating performance***
 - ***lack of credit worthiness***
 - ***differences in the evaluation of, or disputed, losses***
- ***High ratio raises concern of reinsurer's credibility***



Calculation of Ratio L4

RI Recoverables for Paid Losses to Equity

A – RI Recoverable for Paid Losses from Affiliated Companies

B – RI Recoverable for Paid Losses from Unaffiliated Companies

C – Capital and Surplus

D – RI Recoverable for Paid Losses = A+B

E – RI Recoverable for Paid Losses to Capital & Surplus = 100 (D/C)

- You may need to separately calculate the ratios applicable to affiliates and non affiliates in which case the formulae would be: 100 (A/C) for affiliates and 100 (B/C) for non affiliates, then add (combine) the 2 ratios to arrive at ratio E, above. (Reason: risks in collections differ)*



Ratio L5 – Reinsurance Recoverable on Unpaid Losses to Equity

- ***This ratio is another measure of the level of risk of primary (ceding) insurer related to reinsurance***
- ***High ratio raises credibility concern of reinsurer***
- ***Relatively higher level of this ratio may be acceptable for long-tail writer***
- ***For short-tail writer, high ratios indicate a build-up of ceded loss reserves***



Calculation of Ratio L5

RI Recoverable for Unpaid Losses to Equity

A – RI Recoverable for Unpaid Losses from Affiliated Companies

B – RI Recoverable for Unpaid Losses from Unaffiliated Companies

C – Capital and Surplus

D – RI Recoverable for Unpaid Losses = A+B

E – Reinsurance Recoverable for Unpaid Losses to Equity = 100 (D/C)

- *Again separate calculation of ratio for affiliates and non affiliated reinsurers is suggested*



Ratio L6 – Reserve to Capital & Surplus

- *This ratio concentrates on Reserves for losses and LAE in relation to capital & surplus*
- *It measures the company's exposure to errors in estimation of liabilities for losses and LAE*
- *Especially critical if significant amount of net premium written is attributable to long-tailed business*
 - *Due to long or prolonged time to settle claims*



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Calculation of Ratio L6

A – Net Premium Written on Long-tailed lines

B – Total Net Premium Written

C - % of net long-tailed line = 100 (A/B)

D – Loss Reserves

E – Reserve for Loss Adjustment Expenses

F – Capital & Surplus

G – Reserve to Capital & Surplus = 100 (D+E)/F

H – Ratio for long tailed products = (G x C)

- Note: Ratio H (relates to long tailed products) = G*C. Ratio H will indicate the extent of leveraging reserves for long-tailed products to capital & surplus.***



Ratio L7 – Two-year Reserve Development to Capital & Surplus

- ***Losses outstanding for two years prior and up to the current statement date is the sum of***
 - *Current reserves outstanding for losses incurred two years ago*
 - *Loss payments made during last two year*
- ***Two-year reserve development is difference***
 - *Updated loss estimate above, minus*
 - *Reserve at the end of prior year*
- ***If two-year reserve development is***
 - *Positive: reserves were deficient*
 - *Negative: reserves were redundant*



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Calculation of Ratio L7

*First, calculate the 2 yr loss development; then Ratio L7
“2 year Reserve Development to Equity”*

- *A – Current reserves outstanding for losses incurred two years ago (last 2 years)*
- *B -Loss payments made during last two year*
- *C – Updated 2 year loss estimate = A + B*
- *D - Reserve at the end of prior year*
- *E - 2 Year Reserve Development = C – D*
- *F – Capital & Surplus*
- *G - 2 year Reserve Development to Capital & Surplus= 100 (E/F)*



Ratio A1A – Affiliated Investments to Capital & Surplus

- *This ratio measures the company's investment in parent, subsidiaries, affiliates*
- *Too high ratios indicate extra risk of the company due to risks faced by the parent, subsidiaries and affiliates*
- *Measures the extent to which the capital & surplus of the insurance company is exposed or threatened by the solvency risks faced its parent, subsidiaries and affiliates companies*
- *Calculation of ratio: 100 (A/B) where:*
 - *A – Total investment in parent, subsidiaries or affiliates*
 - *B – Capital & Surplus*



Ratio A1B – Affiliated receivables to Capital & Surplus

- ***If Receivables are unsecured: risk of collection is high***
- ***This ratio measures the company's risk due to large amount of unsecured collectibles from company's parent, subsidiaries, affiliates***
- ***It measures the extent to which capital & surplus is leveraged in case of default by parent, affiliates and subsidiaries***
- ***Calculation: $100 (A+B)/C$, where:***
 - ***A = Receivables from parent, affiliates and subsidiaries***
 - ***B = Reinsurance recoverable from parent, affiliates, subsidiaries***
 - ***C = Capital & Surplus***



Ratio A2 – Miscellaneous Recoverables to Capital & Surplus

- ***Recoverables from creditors other than reinsurers cause major risks to the financial stability of an insurance company***
 - ***Illiquid and non-income producing***
 - ***Include write-ins which may not be permitted or admissible assets***
- ***The higher the ratios = the higher is the risk of collection = the higher is the (potential) threat to C & S***
- ***Calculation: $100 (A+B+C)/D$, where:***
 - ***A – Aggregate asset write-in other than invested assets***
 - ***B – Income tax and other taxes recoverable plus accrued interest***
 - ***C – Other non-trade related recoverables***
 - ***D – Capital & Surplus***



Ratio A3 – Non-Investment Grade Bond to Capital and Surplus

- *This is commonly referred to as “Non Investment Grade Bond Exposure”*
- *Non-investment grade bonds may be inadmissible or partially admissible assets*
- *The ratio measures the extent to which C & S is exposed or leveraged to the credit risks of the bond and the issuer making payment of bond obligations as they fall due*
- *Credit risk and liquidity risk are the major concerns associated with holding such bonds*
- *The higher the ratios; the higher is the indication of management’s decision to take more credit and liquidity risks, thus: higher risk exposure of C & S to credit risk of the bond issuer and the insurance company’s own liquidity risk.*
- *Calculation: 100 (A/B) where:*
 - *A = Total of non investment grade bonds*
 - *B = Capital & Surplus*



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Ratio A4 – Other Invested Assets to Capital & Surplus

- ***Other assets include real estate, mortgage loans, shares in joint-ventures, partnerships, resource development or the like***
- ***Characterized with illiquidity and highly vulnerable to market risks***
- ***High ratios indicate potential asset risks; high level of risk to stable company's capital and surplus***
- ***Calculation: $100 (A+B+C)/D$, where:***
 - ***A – Real Estate***
 - ***B – Mortgage Loans on Real Estate***
 - ***C – Other Invested Assets***
 - ***D – Capital and Surplus***



Ratio A5 – Change in Liquid Assets

- ***Liquid assets include***
 - ***Cash and tradable securities***
 - ***Receivables for securities plus accrued interest/dividends***
 - ***Investment in cash and tradable securities of affiliates***
- ***Insurer need liquid assets to meet obligations***
 - ***Poor liquidity: risk of forced sale of assets below market***
 - ***Excessive liquidity: poor investment performance***
- ***Stable, low ratios are ideal***



Calculation of Ratio A5

Change in Liquid Assets

A - Bank and Cash Fund; F- Prior Year's

B- Bank Deposits; G- Prior Year's

C- Government Bonds; H – Prior Year's

D - Shares (available for sale); I- Prior Year's

E - Investment Certificates; J – Prior Year's

K- This year's Liquid Assets = A+B+C+D+E

L – Last Year's Liquid Assets = F+G+H+I+J

M - Change in Liquid Asset = 100 [(K – L)/L]



Ratio A6 – Change in Gross Agents’ Balances

- ***Agents’ balances are not easily converted to cash even in time of liquidation***
- ***Significant increase in gross agents’ balance spells liquidity problem***
- ***Measures the extent by which C & S is leveraged to Agent’s Balances***
- ***Calculation: $100 (A-B)/B$, where:***
 - ***A – Agents’ balances at end of current year***
 - ***B – Agents’ balances at end of previous year***



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Ratio M1 – Cash Flow from Operation

- ***This is a ratio of the net cash flow from operation to net premium collected***
 - ***Measures the insurer's ability to generate cash from normal operation of the company***
 - ***Test of the profitability of the operation of the company***
- ***Cash flow is stated as outgoes - incomes***



Calculation of Ratio M1

Cash Flow from Operations

A – Loss and LAE paid; I – Prior Year’s

B- Underwriting (Commission and Acquisition Cost) Expense paid; J – Prior Year’s

C – Dividends paid to Policyholders; K – Prior Year’s

D- General and Administrative Expense; L – Prior Year’s

E - Net Investment Income (loss); M – Prior Year’s

F - Other Income (expense); N – Prior Year’s

G - Recoverable taxes Received (Paid); O – Prior Year’s

H – Net Premium Collected; P – Prior Year’s

Q – Cash Flow from Operations, Current Year = 100 [(A+B+C+D) – (E+F+G)/H]

R – Cash Flow from Operations, Previous Year = 100[(I+J+K+L) – (M+N+O)/P]



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Ratio PM2 – Change in Capital & Surplus

- ***This is the ultimate measure of the financial condition of the company***
- ***A negative change shows deterioration: bad***
- ***Drastic increase shows instability***
 - ***It is sometimes related to a change of ownership***
 - ***Many insolvent companies have high surplus increases prior to insolvency of the company***



Calculation of Ratio M2

- A – Capital & Surplus End of Current Year***
- B – Capital & Surplus End of Previous Year 1 (Last Year)***
- C – Capital & Surplus End of Previous Year 2 (Year before Last Year)***
- D - Change in Capital & Surplus, this Year = 100 (A-B)/B***
- E – Change in Capital & Surplus, last Year = 100 (B-C)/C***

- This is a 3 - year calculation. Changes to C & S for the lasts five (5) years or longer period gives you better idea about the developments (growth, stability or deterioration) of the company's financial condition***



FAST Factors Summary Sheet

		<u>Normal Range</u>		<u>Outermost Range</u>	
		<u>Low</u>	<u>High</u>	<u>Low</u>	<u>High</u>
PP1	Investment Yield Deviation from Industry Average	-1.5	1.5	-15	30
PP2	Change in Combined Ratio	-5	5	-25	25
PP3	Gross Expenses and Commissions / Gross Premium Written	15	35	5	70
PP4	Change in Gross Expenses and Commissions	-20	20	-100	100
PL1A	Gross Premiums Written / Policyholders' Surplus	0	300	0	900
PL1B	Net Premiums Written to Policyholders' Surplus	0	225	0	675
PL2A	Change in Gross Premium Written	-20	20	-100	100
PL2B	Change in Net Premiums Written	-15	20	-75	100
PL3	Surplus Aid to Policyholders' Surplus	0	5	0	25
PL4	Reinsurance Recoverable on Paid Losses to Policyholders' Surplus	0	5	0	25
PL5	Reinsurance Recoverables on Unpaid Losses to Policyholders' Surplus	0	25	0	75
PL6	Reserve to Policyholders' Surplus	0	175	0	525
PL7	Two-Year Reserve Development to Policyholders' Surplus	0	5	0	25
PA1A	Affiliated Investment to Policyholders' Surplus	0	20	0	60
PA1B	Affiliated Receivables to Policyholders' Surplus	0	10	0	30
PA2	Miscellaneous Recoverables to Policyholders' Surplus	0	5	0	25
PA3	Non-Investment Grade Bond Exposure	0	5	0	25
PA4	Other Invested Assets to Policyholders' Surplus	0	5	0	25
PA5	Change in Liquid Assets	-5	25	-25	125
PA6	Change in Gross Agents' Balances	-2.5	10	-12.5	50
PM1	CashFlow from Operation	0	95	0	142.5
PM2	Change in Policyholders' Surplus	0	25	0	50



FAST SCORES

- ***No score is given inside the normal range***
- ***Graduated score is given outside the normal range***
 - ***From 0 to 100 at or beyond the maximum range***
 - ***Some items have extra points up to another 70***
- ***Average for each group is calculated and added together***
- ***High FAST scores indicate need of more regulatory attention***



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Thank you!

Discussions



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Appendix 5

Exit Report of Edgar P Balbin
TAPR II – Component B, Insurance
May 29, 2008