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**Rules of  
Department of Insurance  
Division 200—Financial Examination  
Chapter 1—Financial Solvency and Accounting  
Standards**

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**Title 20—DEPARTMENT OF  
INSURANCE**

**Division 200—Financial Examination  
Chapter 1—Financial Solvency and  
Accounting Standards**

**20 CSR 200-1.010 Financial Condition of  
Insurance Companies**

*PURPOSE: This rule enumerates conditions which may indicate that an insurer is in a financial condition which would require further scrutiny in order to protect its policyholders, claimants, creditors, shareholders and the public.*

(1) Definitions.

(A) Financial ratios shall include, but not be limited to, premium-to-surplus ratios, change in writings ratios, change in surplus ratios and any other financial ratios employed by the National Association of Insurance Commissioners (NAIC) in the Insurance Regulatory Information System and other financial ratios employed by the director of the Department of Insurance.

(B) Insurer shall mean any company or business entity authorized to transact or applying for authority to transact the business of insurance in Missouri under Chapter 376, 377, 378, 379, 381 or 384, RSMo.

(C) Premium shall mean—i) for a property and casualty insurer, net written premium which is direct premium plus premium written on reinsurance assumed less premium written on ceded reinsurance and ii) for a life and health insurer, premiums and annuity consideration which is total direct premiums and annuity consideration plus reinsurance assumed premiums and annuity consideration less reinsurance ceded premiums and annuity consideration.

(D) Surplus shall mean an insurer's admitted assets less its liabilities.

(2) An insurer may require additional scrutiny when one (1) or more of the following conditions are found to exist by the director of the Department of Insurance:

(A) An insurer does not file a financial statement within ten (10) days of the receipt of notice from the department of its failure to file as required by the applicable statute;

(B) An insurer files financial information which is false or misleading;

(C) An insurer overstates its surplus by a material amount;

(D) A material number of an insurer's financial ratios are outside the acceptable ranges as established by the NAIC and the director of the Department of Insurance;

(E) Without consideration of net income and the changes in paid-in capital, paid-in surplus or contributed surplus and policyholder dividends, the net reduction to the insurer's surplus is a material amount of beginning surplus on the insurer's financial statements;

(F) An insurer's reserves for losses and loss adjustment expenses are discounted a material amount of surplus, except reserves for long-term lines with fixed and determinable payments, such as long-term disability and Workers' Compensation, may be discounted on the basis of tabular reserves as permitted by the director of the Department of Insurance;

(G) An insurer has reinsurance reserve recoverables or receivables which are disputed by the reinsurer or are due and payable and remain unpaid for a period of ninety (90) days and the reinsurance reserve credits, recoverables and receivables are a material amount of an insurer's surplus;

(H) An insurer has reinsurance reserve credits, recoverables or receivables due from insurance companies in receivership and the reinsurance reserve credits, recoverables or receivables are a material amount of an insurer's surplus;

(I) An insurer's affiliate or subsidiary is unable to pay its obligations to the insurer as they become due and the obligations constitute a material portion of the insurer's surplus;

(J) An insurer's premium writings are excessive in relation to the insurer's surplus;

(K) An insurer fails to maintain books and records sufficient to permit examiners to determine the financial condition of the insurer;

(L) An insurer has reinsurance agreements affecting a material portion of its gross written premium and the assuming insurers are unauthorized under section 375.246, RSMo;

(M) An insurer has taken reinsurance credits or claimed assets on which there are no executed reinsurance agreements or other satisfactory evidence of cover and which are a material amount of surplus. This condition shall not apply to reinsurance transactions where individual underwriters must bind that coverage. In those circumstances, a binder of coverage shall constitute execution;

(N) One (1) insurance producer produces a material amount of the gross written premiums of an insurer;

(O) An insurer does not follow a policy on rating and underwriting standards determined to be appropriate to the risk;

(P) An insurer's aggregate net retained risk, direct or assumed, under any one (1) policy or certificate of insurance, is in excess

of ten percent (10%) or an appropriate amount of surplus;

(Q) The insurer's asset portfolio when viewed in light of current economic conditions is not of sufficient value, liquidity or diversity to assure the insurer's ability to meet its outstanding obligations as they mature;

(R) Any controlling person, as defined in Chapter 382, RSMo, of an insurer is delinquent in the transmitting to, or payment of, net premiums to that insurer;

(S) The management of an insurer, including officers, directors, or any other person who, directly or indirectly, controls the operation of that insurer, fails to possess and demonstrate the competence, fitness and reputation deemed necessary to serve the insurer in that position;

(T) The insurer has grown so rapidly and to an extent that it lacks adequate financial and administrative capacity to meet its obligations in a timely manner;

(U) The company has experienced, or will experience in the foreseeable future, cash flow, liquidity problems, or both; or

(V) Any other conditions deemed appropriate by the director.

(3) The conditions enumerated in this rule do not conclusively establish an insurer's financial condition. In evaluating any of these conditions, all circumstances surrounding the insurer's operations shall be analyzed in making an ultimate conclusion.

(4) Notwithstanding any other provision of this rule to the contrary, the maximum net amount of risk to be retained by a property or liability insurer, or both, for an individual risk shall be no larger than ten percent (10%) of that insurer's surplus. Any insurer retaining a net amount of risk for an individual risk larger than ten percent (10%) of that insurer's surplus shall be deemed in hazardous condition.

(5) Remedial Action.

(A) The existence of a material number of these conditions or a significant deficiency in one (1) or more conditions enumerated in this rule may result in further remedial action including, but not limited to, denying admission into this state, removing a company from the approved surplus lines list, suspending or revoking an insurer's certificate of authority to transact the business of insurance in this state and, in the case of foreign insurers, consulting with the insurer's domestic state.

(B) In the event that the remedial action pursued is suspension or revocation of



an insurer's certificate of authority, no suspension or revocation shall be ordered until the proper notice and hearing procedures have been afforded the company as required by statute and 20 CSR 800-1.100.

(C) Upon an evaluation of the conditions set forth in this rule, the department has the authority to require additional surplus, based upon the type, volume and nature of insurance business transacted. Any requirement of additional capital and surplus under this subsection shall be accomplished under section 375.1162, RSMo or pursuant to a conservatorship action or administrative supervision.

*AUTHORITY:* sections 374.040, 374.045 and 374.190, RSMo 2000 and Chapter 375, RSMo 2000 and Supp. 2001.\* This rule was previously filed as 4 CSR 190-11.005. Original rule filed Aug. 1, 1990, effective Dec. 31, 1990. Amended: Filed July 2, 1991, effective Dec. 9, 1991. Amended: Filed April 29, 1992, effective Dec. 3, 1992. Amended: Filed July 12, 2002, effective Jan. 30, 2003.

\*Original authority: 374.040, RSMo 1939, amended 1967; 374.045, RSMo 1967, amended 1993, 1995; 374.190, RSMo 1939, amended 1949, 1967, 1992; and Chapter 375, see Revised Statutes of Missouri, 2000 and Supp. 2001.

#### 20 CSR 200-1.020 Accounting Standards and Principles

*PURPOSE:* This rule effectuates or aids in the interpretation of sections 375.560 and 375.881, RSMo, and in the administration of sections 354.080 and 354.355, RSMo.

(1) Each insurance company shall make and file statements of its assets, liabilities, capital and surplus, income and expenses, including all schedules and exhibits used in connection with such statements, which statements the director may use to determine whether the capital stock or guarantee fund of an insurance company is impaired under section 375.560.1(1), RSMo, whether an insurance company is insolvent under section 375.560.1(2) or 375.881.1(1), RSMo, whether an insurance company is in a financial condition that its further transaction of business would be hazardous under section 375.881.1(3) or 375.1165(1), RSMo and whether an insurance company fails to comply with the requirements for admission under section 375.881.1(2), RSMo according to the applicable accounting guidance, standards, and principles approved by the National Association of Insurance Commissioners (NAIC), published in the *Accounting Practice and Procedures Manual, Annual Statement Instructions, Valuation of Securities*

*and Examiner's Handbook*, except where the applicable provisions of Chapters 374-385, RSMo or other specific rules expressly provide otherwise.

(2) Each health services corporation shall make and file statements of its assets, liabilities, capital and surplus, income and expenses, including all schedules and exhibits used in connection with such statements, which statements the director may use to determine whether a health services corporation is maintaining the reserves required by section 354.080, RSMo and whether a health services corporation is in a condition that its further transaction of business will be hazardous under section 354.355(3), RSMo according to the applicable accounting standards or principles approved by the NAIC, or both, as published in the *Accounting Practices and Procedures Manual, Annual Statement Instructions, Valuation of Securities and Examiner's Handbook*, except where the applicable provisions of sections 354.010-354.380, RSMo or other specific rules expressly provide otherwise.

(3) Each health maintenance organization shall make and file statements of its assets, liabilities, capital and surplus, income and expenses, including all schedules and exhibits used in connection with such statements, which statements the director may use to determine whether a health maintenance organization is no longer financially responsible and may reasonably be expected to be unable to meet its obligations to enrollees or prospective enrollees under section 354.470.1(4), RSMo, whether the continued operation of a health maintenance organization would be hazardous to its enrollees under section 354.470.1(8), RSMo, whether a health maintenance organization is insolvent under section 375.1175(2), RSMo, and whether a health maintenance organization is in a financial condition that its further transaction of business would be hazardous under section 375.1165(1), RSMo, according to the applicable accounting guidance, standards, and principles approved by the National Association of Insurance Commissioners (NAIC), published in the *Accounting Practices and Procedures Manual, Annual Statement Instructions, Valuation of Securities and Examiner's Handbook*, except where the applicable provisions of Chapter 354, RSMo or other specific rules expressly provide otherwise.

*AUTHORITY:* sections 354.120, 354.485, and 374.045, RSMo 2000.\* This rule was previously filed as 4 CSR 190-11.230.

Original rule filed Feb. 3, 1989, effective May 1, 1989. Amended: Filed Aug. 25, 1989, effective Jan. 1, 1990. Amended: Filed Dec. 14, 2000, effective July 30, 2001. Amended: Filed Dec. 4, 2001, effective June 30, 2002.

\*Original authority: 354.120, RSMo 1973, amended 1983, 1993, 1995; 354.485, RSMo 1983; and 374.045, RSMo 1967, amended 1993, 1995.

#### 20 CSR 200-1.025 Valuation of Invested Assets

*PURPOSE:* This rule effectuates or aids in the interpretation of sections 376.300-376.320 and 379.080, RSMo.

(1) Securities. Securities owned by insurance companies must be valued in accordance with those standards promulgated by the Valuation of Securities Office of the National Association of Insurance Commissioners (NAIC) as published in its *Valuation of Securities*.

(2) Other Invested Assets. Invested assets, other than securities, must be valued in accordance with the procedures promulgated by the NAIC's Financial Condition (EX4) Subcommittee as published in its *Accounting Practices and Procedures Manual, Annual Statement Instructions and Examiner's Handbook*.

*AUTHORITY:* section 374.045, RSMo 2000.\* Original rule filed July 2, 1991, effective Dec. 9, 1991. Amended: Filed Aug. 29, 2003, effective Feb. 29, 2004.

\*Original authority: 374.045, RSMo 1967, amended 1993, 1995.

#### 20 CSR 200-1.030 Financial Statement and Diskette Filing

*PURPOSE:* This rule prescribes forms to be followed in proceedings before the Department of Insurance regarding annual statements and effectuates or aids in the interpretation of sections 287.710, 354.105, 354.435, 354.720, 375.041, 375.786, 375.1030, 375.1037, 375.1047, 375.1082, 375.1252, 376.350, 376.370, 376.1012, 376.1092, 376.1093, 377.100, 377.380, 378.350, 379.105, 380.051, 380.482, 382.110, 383.030 and 384.021, RSMo.

(1) Each health services corporation, health maintenance organization (HMO), stock or mutual life insurance company, assessment or



stipulated premium plan life insurance company, fraternal benefit society, stock or mutual insurance company other than life, Chapter 383 assessment company, reciprocal and eligible surplus lines insurer shall file a sworn annual statement on or before March 1 of each year, for its business and affairs for the year ended the next previous December 31, in accordance with the National Association of Insurance Commissioners (NAIC) Annual Statement Blank and the instructions for it, or in accordance with any other form as the director expressly permits to the entity. This statement also shall be prepared in accordance with the applicable accounting standards or principles approved by the NAIC, published in the *Accounting Practices and Procedures Manual, Valuation of Securities or Examiner's Handbook*, or a combination of these, except where the applicable provisions of Chapters 354 and 374-385, RSMo, or other specific rules expressly provide otherwise. For entities not domiciled in Missouri, one (1) copy of the annual statement shall be filed with the Missouri department's office in Jefferson City and one (1) copy shall be filed with the NAIC's office in Kansas City, Missouri. For entities domiciled in Missouri, one (1) signed original and two (2) copies of the annual statement shall be filed with the Missouri department's office in Jefferson City and one (1) copy shall be filed with the NAIC's Kansas City office; provided, however, that for domiciled companies doing business in seventeen (17) or more states, for life and health insurers writing fifty (50) million dollars or more in gross premium, and for property and casualty insurers writing thirty (30) million dollars or more in gross premium, an additional copy also shall be filed with the NAIC's office in Kansas City, Missouri, but only upon the written request of the NAIC. The annual and quarterly statements should be signed by three (3) officers of the company.

(2) Each entity shall file a diskette including all annual statement information with the NAIC's office in Kansas City, Missouri. The diskette shall be prepared under guidelines contained in the NAIC's Annual Statement Diskette Filing Specifications.

(3) Each health services corporation, HMO, stock or mutual life insurance company, assessment or stipulated premium plan life insurance company, fraternal benefit society, stock or mutual insurance company other than life, Chapter 383 assessment company, reciprocal and eligible surplus lines insurer shall file, in addition to the sworn annual statement required in section (1), three (3)

quarterly statements for its business and affairs for the quarters ending, respectively, the next previous March 31, June 30 and September 30, in accordance with the NAIC Quarterly Statement Blank and the instructions for it, or in accordance with any other forms as the director expressly permits to the entity. For entities not domiciled in Missouri, one (1) copy of each quarterly statement shall be filed with the Missouri department's office in Jefferson City and one (1) copy shall be filed with the NAIC's office in Kansas City, Missouri. For entities domiciled in Missouri, one (1) signed original and two (2) copies of each quarterly statement shall be filed with the Missouri department's office in Jefferson City and one (1) copy shall be filed with the NAIC's Kansas City office; provided, however, that for domiciled companies doing business in seventeen (17) or more states, for life and health insurers writing fifty (50) million dollars or more in gross premium, and for property and casualty insurers writing thirty (30) million dollars or more in gross premium, an additional copy also shall be filed with the NAIC's office in Kansas City, Missouri, but only upon the written request of the NAIC.

(4) Each entity shall file a diskette including all quarterly statement information with the NAIC's office in Kansas City, Missouri, and an additional diskette with the Missouri department's Jefferson City office. The diskette shall be prepared under guidelines contained in the NAIC's Quarterly Statement Diskette Filing Specifications.

(5) Filings for the respective quarters shall be mailed on or before May 15, August 15 and November 15 of each year.

(6) This rule will apply to filing of the annual and quarterly statements and diskette beginning with the year ending December 31, 1992, to be filed by March 1, 1993, as well as all future years.

(7) All entities regulated by the Department of Insurance shall place bar code labels on the following documents that are required to be filed with the Missouri Department of Insurance:

- (A) Annual statement and all exhibits required by the NAIC;
- (B) Quarterly financial statements (due three (3) times a year);
- (C) Audited financial report;
- (D) Qualification letter;
- (E) Application to Renew Certificate of Authority;

(F) Notification of Insurers/Trust Agreement form (third-party administrators);

(G) Premium Tax Form (including quarterly assessment notices);

(H) Actuarial certification included with annual statement filing;

(I) Management Discussion and Analysis form;

(J) Basket clause investments listing;

(K) Electronic data processing equipment listing;

(L) Risk-based capital report;

(M) Confirmation of deposit;

(N) Certificate of Authority (foreign companies);

(O) Certificate of Valuation (foreign companies);

(P) Certificate of Deposit (foreign companies);

(Q) Certificate of Valuation (form MO 375-0420);

(R) Market Value of Securities form (form MO 375-0421);

(S) Page fourteen supplement to the annual statement (property and casualty insurance);

(T) Annual statement supplement to the state page for Missouri (life and health insurance);

(U) Missouri state page of the annual statement;

(V) Self-Insurance Table 1 Payroll and Premium Tax Report form;

(W) Self-Insurance Certification Report for excess Workers' Compensation premium; and

(X) Any other documents determined by the director.

(8) A master sheet of bar code labels will be provided once a year. If the master sheet or any part thereof has to be reproduced for any reason, a fee of ten dollars (\$10) will be charged. This fee, along with a written request for a replacement set of labels, must be received by the department before the replacement set of labels will be provided. A document will not be considered filed unless the proper bar code label is affixed thereto. Loss of any bar code label(s) and a request for a replacement set of labels will not excuse the late filing of any documents and appropriate penalties will be imposed for any late filings.

*AUTHORITY: sections 354.120, 354.485, 354.723, 374.045 and 380.561, RSMo 2000.\* This rule was previously filed as 4 CSR 190-II.180. Original rule filed Sept. 2, 1988, effective Jan. 1, 1989. Amended: Filed Jan. 3, 1990, effective May 1, 1990. Amended: Filed May 21, 1990, effective Sept.*



28, 1990. Amended: Filed Oct. 31, 1990, effective March 14, 1991. Amended: Filed April 29, 1992, effective Dec. 3, 1992. Amended: Filed Aug. 4, 1992, effective May 6, 1993. Amended: Filed June 14, 1994, effective Dec. 30, 1994. Amended: Filed June 14, 2001, effective Dec. 30, 2001. Amended: Filed Aug. 29, 2003, effective Feb. 29, 2004.

*\*Original authority: 354.120, RSMo 1973, amended 1983, 1993, 1995; 354.485, RSMo 1983; 354.723, RSMo 1987; 374.045, RSMo 1967, amended 1993, 1995; and 380.561, RSMo 1984, amended 1993, 1995.*

### **20 CSR 200-1.035 Diversity and Liquidity Requirements for Assets Portfolios of Property and Liability Insurers**

(Rescinded February 26, 1993)

*AUTHORITY: section 374.045.1(3), RSMo 1986. Original rule filed Oct. 11, 1991, effective May 14, 1992. Rescinded: Filed June 18, 1992, effective Feb. 26, 1993.*

### **20 CSR 200-1.037 Supplemental Annual Filing Requirements**

*PURPOSE: This rule prescribes the use of supplemental forms to be filed by either fire and casualty insurers or life, accident and health insurers. These forms will take the so-called state page data currently required under the National Association of Insurance Commissioners' requirements and break this data down into more specific classes for the various different type of policies written. This rule aids in the interpretation of sections 376.350 and 379.105, RSMo.*

*PUBLISHER'S NOTE: The secretary of state has determined that the publication of the entire text of the material which is incorporated by reference as a portion of this rule would be unduly cumbersome or expensive. Therefore, the material which is so incorporated is on file with the agency who filed this rule, and with the Office of the Secretary of State. Any interested person may view this material at either agency's headquarters or the same will be made available at the Office of the Secretary of State at a cost not to exceed actual cost of copy reproduction. The entire text of the rule is printed here. This note refers only to the incorporated by reference material.*

(1) In addition to the financial statement and diskette filing requirements set forth in 20 CSR 200-1.030, entities issued a Certificate of Authority with the Missouri Department of

Insurance, as part of their Annual Statement, also shall file supplemental forms as follows:

(A) Those insurers filing in accordance with the accounting standards or principles approved by the National Association of Insurance Commissioners' (NAIC) and published in the *Accounting Practices and Procedures Manual for Fire and Casualty Insurance Companies* shall also file the form set forth in Appendix A of this rule; and

(B) Those insurers filing in accordance with the accounting standards or principles approved by the NAIC and published in the *Accounting Practices and Procedures Manual for Life and Accident and Health Insurance Companies* shall also file the form set forth in Appendix B of this rule.

(2) The Supplemental Compensation Exhibit must include all types of compensation received by top executives, including stock options. Compensation information must be reported for top executives of all companies, including non-insurance entities, within an insurance group, or in a holding company system. Compensation information should be reported on a total gross basis for each individual for whom compensation information is reported.

(3) Future modifications to these supplemental filing requirements shall be specified by the Missouri Department of Insurance by bulletin sent to the individual insurers affected, accompanied by the appropriate forms, as modified.

*AUTHORITY: sections 374.040, RSMo 1994 and 374.045, RSMo Supp 1997.\* Original rule filed April 5, 1994, effective Nov. 30, 1994. Rescinded and readopted: Filed Feb. 1, 1995, effective Sept. 30, 1995. Amended: Filed Nov. 23, 1998, effective July 30, 1999.*

*\*Original authority: 374.040, RSMo 1939, amended 1967 and 374.045, RSMo 1967, amended 1993, 1995.*



PLACE BAR CODE HERE			STATE OF MISSOURI DEPARTMENT OF INSURANCE ANNUAL STATEMENT SUPPLEMENT FOR MISSOURI FOR YEAR ENDING			
DUE DATE MARCH 1			SEE INSTRUCTIONS ON REVERSE SIDE			
NAIC GROUP #		NAIC COMPANY #		COMPANY		
PERSON COMPLETING FORM					TELEPHONE NUMBER	
<b>LIFE INSURANCE</b>						
	I	II	III	IV	V	VI
	NUMBER OF INSURED	DIRECT PREMIUM & ANNUITY CONSIDERATIONS	DIRECT DIVIDENDS TO POLICYHOLDER	DIRECT CLAIMS, BENEFITS & SURRENDER VALUES PAID	LIFE INSURANCE IN FORCE (000) DECEMBER 31	
<b>INDIVIDUAL BUSINESS</b>						
1.1) Whole						
1.2) Term						
1.3) Universal						
1.4) Graded Death Benefits						
1.5) Credit						
1.6) Variable Life						
1.7) Annuities						
a) Ordinary Allocated						
b) Unallocated						
c) Variable Excluding 'b' Above						
d) Modified Guaranteed						
1.8) Deposit-Type Funds (line 4.1)						
1.9) Aggregate write-ins (line 3)						
1.10) TOTAL INDIVIDUAL						
<b>GROUP BUSINESS</b>						
2.1) Whole						
2.2) Term						
2.3) Universal						
2.4) Graded Death Benefits						
2.5) Credit						
2.6) Variable Life						
2.7) Annuities						
a) Ordinary Allocated						
b) Unallocated						
c) Variable Excluding 'b' Above						
d) Modified Guaranteed						
2.8) Deposit-Type Funds (line 4.1)						
2.9) Aggregate write-ins (line 3)						
2.10) TOTAL GROUP						
3) TOTAL LIFE						
	I	II	III	IV	V	VI
	NUMBER OF INSURED	DIRECT PREMIUMS WRITTEN	DIRECT PREMIUMS EARNED	DIVIDENDS PAID OR CREDITED ON DIRECT BUSINESS	DIRECT LOSSES PAID	DIRECT LOSSES INCURRED
<b>INDIVIDUAL BUSINESS</b>						
4.1) All Other Medical Expense (excluding lines listed below)						
4.2) Medicare Supplement						
4.3) Long Term Care						
4.4) Specified Disease						
4.5) Accident Only						
4.6) Disability Income						
4.7) Dental						
4.8) Limited Benefit						
4.9) Short Term Credit Disability (10 years or less)						
4.10) Long Term Credit Disability (Mortgage)						
4.11) Credit Unemployment						
4.12) Stop Loss						
4.13) TOTAL INDIVIDUAL						
<b>GROUP BUSINESS</b>						
5.1) Medical Expense						
a) Small employer (25 or less)						
b) Large employer/union						
c) Association						
d) Discretionary						
e) Federal Employees (line 23.1)						
5.2) Medicare Supplement						
5.3) Long Term Care						
5.4) Specified Disease						
5.5) Accident Only						
5.6) Disability Income						
5.7) Dental						
5.8) Limited Benefit						
5.9) Short Term Credit Disability (10 years or less)						
5.10) Long Term Credit Disability (Mortgage)						
5.11) Credit Unemployment						
5.12) Stop Loss						
5.13) TOTAL GROUP						
6) TOTAL ACCIDENT & HEALTH						
GROUP AND GROUP TYPE INFORMATION:				HEALTH	LIFE	ANNUITY
7.1) Number of certificate holders under contracts issued in Missouri:				a) Missouri Residents		
				b) Non-Missouri Residents		
7.2) Number of certificate holders under contracts issued in other jurisdictions:				a) Missouri Residents		
				b) Non-Missouri Residents		

MO 575-1802

**INSTRUCTIONS FOR COMPLETING ANNUAL STATEMENT SUPPLEMENT FOR MISSOURI:**

This form is used to collect data in greater detail than that reported on the State Page (Page 21). All Life&Accident&Health, Health Service Corporations, and Fraternal companies are required to submit an accurate and complete report of their business in all of the lines specified per 20 CSR 200-1.037.

All amounts EXCEPT for Life Insurance in Force must be reported in whole dollars. Life Insurance in Force should be reported in thousands.

Totals must equal amounts reported on the Missouri State Page in the Annual Statement. The following are cross-checks your company should perform before submitting your supplement. If any of the following amounts between your state page and supplement do not agree your company is subject to \$1,000 fine for reporting faulty data per Section 374.215, RSMo.

STATE PAGE

<u>LIFE&amp;ACCIDENT&amp;HEALTH</u>	<u>FRATERNALS</u>	<u>SUPPLEMENT</u>
column 6, line 4 + line 4.1	column 1, line 4	= column II, line 3
column 6, line 7	column 1, line 7	= column III, line 3
column 6, line 14	column 1, line 14	= column IV, line 3
column 2, line 23.1		= column II, line 5.1e
column 3, line 23.1		= column III, line 5.1e
column 4, line 23.1		= column IV, line 5.1e
column 5, line 23.1		= column V, line 5.1e
column 6, line 23.1		= column VI, line 5.1e
column 2, line 25	column 2, line 25	= column II, line 6
column 3, line 25	column 3, line 25	= column III, line 6
column 4, line 25	column 4, line 25	= column IV, line 6
column 5, line 25	column 5, line 25	= column V, line 6
column 6, line 25	column 6, line 25	= column VI, line 6

**NUMBER OF INSURED AS OF DECEMBER 31 OF REPORT YEAR:**

For individual policies, the number of insured must include dependents.

For group policies, the number of insureds must equal the number of certificate holders plus all dependents.

**MEDICAL EXPENSES:** This category includes major medical, comprehensive medical and other hospital-surgical-medical coverage.

**LIMITED BENEFITS:** Includes vision, nursing care, hospital indemnity and any other single service plan or program.

**STOP LOSS:** Include all premium for excess loss coverage including any such coverage issued or provided through minimum premium plans or other self funded health benefit plans.

If additional definitions are needed for detail lines of business, please send a self-addressed stamped envelope to the address below (no phone calls please). Any other questions regarding the completion of this form should be addressed to the Statistics Section of the Missouri Department of Insurance, 314-751-0794.

Please mail to : Missouri Department of Insurance  
ATTN: Statistics Section  
PO Box 690  
Jefferson City MO 65102-0690





PLACE BAR CODE HERE



STATE OF MISSOURI  
DEPARTMENT OF INSURANCE  
**SUPPLEMENT TO PAGE 14 OF  
ANNUAL STATEMENT FOR YEAR ENDING  
DECEMBER 31, 1994**

MAIL TO: STATE OF MISSOURI  
DEPARTMENT OF INSURANCE  
STATISTICS SECTION  
P.O. BOX 690  
JEFFERSON CITY, MISSOURI 65102-0690

DUE DATE - MARCH 1		SEE INSTRUCTIONS ON REVERSE SIDE			
COMPANY NAME		NAIC GROUP NO	NAIC COMPANY NO		
MISSOURI BUSINESS ONLY (ROUND TO NEAREST DOLLAR)					
(1) LINE OF BUSINESS	(2) DIRECT PREMIUMS WRITTEN	(3) DIRECT PREMIUMS EARNED	(4) DIRECT ALLOCATED LOSS ADJUSTMENT EXPENSE INCURRED	(5) DIRECT LOSSES PAID	(6) DIRECT LOSSES INCURRED
1. & 2. Fire & Allied Lines					
(a) Dwelling					
(b) Commercial					
(c) Farm					
3. Farmowners Multi-Peril					
4. (a) Home Owners Multi-Peril					
(b) Dwelling Owners Multi-Peril (ACV)					
5. Commercial Multi-Peril					
6. Mobile Homes					
7. Growing Crops					
8. Ocean Marine					
9. Inland Marine (Including Auto Cargo)					
10. Financial Guaranty					
11. Medical Malpractice Liability					
(a) Physicians and Surgeons					
(b) Dentists					
(c) Nurses					
(d) Hospitals					
(e) Other					
12. Earthquake					
14. All Accident & Health					
16. Workers Compensation					
(a) Direct					
(b) Excess					
17. Other Liability					
(a) Bodily Injury & Property Damage					
(b) Warranty Programs/Service Contracts					
18. Product Liability					
Bodily Injury & Property Damage					
19. (a) (1) Priv. Pass. Auto Lia. Bodily Injury					
(2) Priv. Pass. Auto Lia. Property Damage					
(3) Priv. Pass. Auto Medical Payments					
(4) Priv. Pass. Uninsured Motorist					
(5) Priv. Pass. Underinsured Motorist					
(6) Priv. Pass. Acc. Death & Disability/Dismemberment					
(b) (1) Comm. Auto Liability Bodily Injury					
(2) Comm. Auto Liability Property Damage					
(3) Comm. Auto Medical Payments					
(4) Comm. Auto Uninsured/Underinsured Motorist					
21. (a) (1) Priv. Pass. Auto Comprehensive					
(2) Priv. Pass. Auto Collision					
(b) (1) Comm. Auto Comprehensive					
(2) Comm. Auto Collision					
22. Aircraft					
23. Fidelity					
24. Surety					
25. Glass					
26. Burglary & Theft					
27. Boiler & Machinery					
28. (a) Credit Property (excluding V.S.I.)					
(b) Credit Casualty (Collateral Prot., etc.)					
(c) Credit Unemployment					
(d) V.S.I.					
29. Mortgage Guaranty					
30. Title					
31. Lawyers Malpractice					
32. Real Estate Malpractice					
33. Nuclear Energy Liability & Property					
34. Umbrella					
35. OTHER SPECIFIC (SPECIFY)					
36. Federal Crop Insurance Corporation					
<b>TOTALS ALL BUSINESS IN MISSOURI</b>					

MO 375-0381 (10-94)

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**Instructions for SUPPLEMENT TO PAGE 14 OF ANNUAL STATEMENT**

This form is used to collect data in greater detail than that of the Page 14 in the Annual Statement per Regulation 20 CSR 200-1.037. Therefore, please review the entire form to make sure your company is identifying specific lines. For example; companies writing Lawyer's Malpractice experience, insert the data on line 31 and exclude the data from line 17 (Other Liability).

All companies are required to submit an accurate and complete report of their business in all of the lines specified or the line of business your company writes. A NONE report is required for companies with no Missouri business.

All amounts are to be reported in whole dollars.

Business reinsured with the Federal Crop Insurance Corporation which are exempt from state premium taxes/ guaranty fund assessment is to be reported on Line 36.

No National Flood Insurance Program business should be reported.

If any company reports a discrepancy between the amount reported from their state page and their supplement, your company will be fined \$1,000 for reporting faulty data per Section 374.215 RSMo.

This form must be completed and stamped received by the Missouri Department of Insurance by March 1, 1995.

**20 CSR 200-1.039 Supplemental Filing Requirements for Material Transactions**

*PURPOSE: This rule aids in the interpretation of sections 354.105, 354.190, 354.435, 354.465, 354.717, 354.720, 374.190, 375.041, 375.400, 376.350, 377.100, 377.380, 378.626, 379.105, 381.241, 383.030 and 384.021, RSMo, and requires domestic insurance companies to disclose material transactions as addenda to the annual and quarterly financial statement filings in order to protect policyholders, claimants, creditors, shareholders and the public.*

(1) “Insurer domiciled in this state”, “domestic insurer”, and “insurer” shall have the same definition as provided in section 375.012, RSMo.

(2) Every insurer domiciled in this state shall file a report with the director disclosing material acquisitions and dispositions of assets or material nonrenewals, cancellations or revisions of ceded reinsurance agreements unless the acquisitions and dispositions of assets or material nonrenewals, cancellations or revisions of ceded reinsurance agreements have been submitted to the director for review, approval or information purposes pursuant to other provisions of the insurance laws or regulations of this state.

(A) The report required in section (2) of this rule is due within fifteen (15) days after the end of the calendar month in which any of the foregoing transactions occur. However, the director may grant an extension of an additional thirty (30) days in which to file the report.

(B) One complete copy of the report, including any exhibits or other attachments, in addition to being filed with the director, shall also be filed with the National Association of Insurance Commissioners.

(C) All reports obtained by or disclosed to the director pursuant to this rule, shall be given confidential treatment and shall not be subject to subpoena and shall not be made public by the director, the National Association of Insurance Commissioners, or any other person, except to insurance departments of other states, without the prior written consent of the reporting insurer. However, if the director, after giving notice and an opportunity to be heard to the reporting insurer determines that the interest of the insurer’s policyholders or shareholders or the public will be served by publication of the report, the director may publish all or any part of the report in any manner the director may deem appropriate.

(3) No acquisitions or dispositions of assets need be reported pursuant to section (2) of this rule if the acquisitions or dispositions are not material. For purposes of this rule, a material acquisition (or the aggregate of any series of related acquisitions during any thirty (30)-day period) or disposition (or the aggregate of any series of related dispositions during any thirty (30)-day period) is one that is non-recurring and not in the ordinary course of business and involves more than five percent (5%) of the reporting insurer’s total admitted assets as reported in its most recent statutory statement filed with the department.

(A) Asset acquisitions subject to this rule include every purchase, lease, exchange, merger, consolidation, succession or other acquisition other than the construction or development of real property by or for the reporting insurer or the acquisition of materials for such purpose.

(B) Asset dispositions subject to this rule include every sale, lease, exchange, merger, consolidation, mortgage, hypothecation, assignment (whether for the benefit of creditors or otherwise), abandonment, destruction or other disposition.

(4) The following information is required to be disclosed in any report of a material acquisition or disposition of assets:

- (A) Date of the transaction;
- (B) Manner of acquisition or disposition;
- (C) Description of the assets involved;
- (D) Nature and amount of the consideration given or received;
- (E) Purpose of, or reason for, the transaction;
- (F) Manner by which the amount of consideration was determined;
- (G) Gain or loss recognized or realized as a result of the transaction; and
- (H) Name(s) of the person(s) from whom the assets were acquired or to whom they were disposed.

(5) Domestic insurers are required to report material acquisitions and dispositions on a non-consolidated basis unless the insurer is part of a consolidated group of insurers which utilizes a pooling arrangement or one hundred percent (100%) reinsurance agreement that affects the solvency and integrity of the insurer’s reserves and the insurer ceded substantially all of its direct and assumed business to the pool. An insurer is deemed to have ceded substantially all of its direct and assumed business to a pool if the insurer has less than \$1,000,000 total direct plus assumed written premiums during a calendar year that are not subject to a pooling arrange-

ment and the net income of the business not subject to the pooling arrangement represents less than five percent (5%) of the insurer’s capital and surplus.

(6) No nonrenewals, cancellations or revisions of ceded reinsurance agreements need be reported pursuant to section (2) of this rule if the nonrenewals, cancellations or revisions are not material. For purposes of this rule, a material nonrenewal, cancellation or revision is one that affects:

(A) For property and casualty business, including accident and health business written by a property and casualty insurer:

- 1. More than fifty percent (50%) of the insurer’s total ceded written premium; or
- 2. More than fifty percent (50%) of the insurer’s total ceded indemnity and loss adjustment reserves.

(B) For life, annuity, and accident and health business: more than fifty percent (50%) of the total reserve credit taken for business ceded, on an annualized basis, as indicated in the insurer’s most recent annual statement.

(C) For either property and casualty or life, annuity, and accident and health business, either of the following events shall constitute a material revision which must be reported:

- 1. An authorized reinsurer representing more than ten percent (10%) of a total cession is replaced by one (1) or more unauthorized reinsurers; or
- 2. Previously established collateral requirements have been reduced or waived respecting one (1) or more unauthorized reinsurers representing collectively more than ten percent (10%) of a total cession.

(D) However, no filing shall be required if—

- 1. For property and casualty business, including accident and health business written by a property and casualty insurer: the insurer’s total ceded written premium represents, on an annualized basis, less than ten percent (10%) of its total written premium for direct and assumed business; or
- 2. For life, annuity, and accident and health business: the total reserve credit taken for business ceded represents, on an annualized basis, less than ten percent (10%) of the statutory reserve requirement prior to any cession.

(E) The following information is required to be disclosed in any report of a material nonrenewal, cancellation or revision of ceded reinsurance agreements:

- 1. Effective date of the nonrenewal, cancellation or revision;

2. The description of the transaction with an identification of the transaction's initiator;

3. Purpose of, or reason for, the transaction; and

4. If applicable, the identity of the replacement reinsurer.

(F) Insurers are required to report all material nonrenewals, cancellations or revisions of ceded reinsurance agreements on a non-consolidated basis unless—

1. The insurer is part of a consolidated group of insurers which utilizes a pooling arrangement or one hundred percent (100%) reinsurance agreements that affects the solvency and integrity of the insurer's reserves; and

2. The insurer ceded substantially all of its direct and assumed business to the pool. An insurer is deemed to have ceded substantially all of its direct and assumed business to a pool if the insurer has less than \$1,000,000 total direct plus assumed written premiums during a calendar year that are not subject to a pooling arrangement and the net income of the business not subject to the pooling arrangement represents less than five percent (5%) of the insurer capital and surplus.

(7) This rule shall apply to any transaction entered into after the effective date of this rule.

*AUTHORITY: sections 354.120, 354.485, 354.723, 374.045, 375.013 and 381.231, RSMo 1994.\* Original rule filed Aug. 1, 1995, effective March 30, 1996.*

*\*Original authority: 354.120, RSMo 1973, amended 1983, 1993, 1995; 354.485, RSMo 1983; 354.723, RSMo 1987; 374.045, RSMo 1967, amended 1993, 1995; and 375.013, RSMo 1993, amended 1995.*

## 20 CSR 200-1.040 Financial Standards for Health Maintenance Organizations

*PURPOSE: This rule implements sections 354.410, 354.415, 354.450, 354.455, 354.470.1(4) and 354.480, RSMo as this rule is necessary and proper to carry out the provisions of sections 354.400–354.550, RSMo.*

(1) A health maintenance organization (HMO) must maintain a capital account as required by section 354.410.6., RSMo. The capital account is the equivalent of net worth and shall be equal to the assets of the HMO less its liabilities, which is also the equivalent of "net of any accrued liabilities" as used in section 354.410.6., RSMo. Assets and liabilities will be admitted and determined under the provisions of this rule.

(2) Assets of an HMO will be admitted and included in determining the financial condition of the HMO only if included within one (1) or more of the following list of admissible assets:

(A) Investable funds under section 354.450, RSMo are as follows:

1. Any asset or investment described in and limited by sections 375.1070–375.1075, RSMo, and 376.300, 376.305 and 376.307, RSMo; and

2. Any asset or investment described in and limited by section 354.415.1(1), RSMo. Under section 354.415.2, RSMo, the HMO must file notice and adequate supporting information with the director for any asset or investment in excess of five hundred thousand dollars (\$500,000). If the director does not disapprove the notice within sixty (60) days of the date of filing, the notice shall be deemed approved; and

(B) Other assets as follows:

1. Reinsurance recoverables pursuant to section 375.246, RSMo;

2. Data processing system pursuant to section 375.325, RSMo;

3. Premium receivable from any agency of this state, of any political subdivision of this state or of the United States;

4. Accrued interest receivable, if according to generally accepted standards of accounting for HMOs such interest is probably collectible;

5. Inventory of medical, pharmaceutical and optical supplies, furniture, equipment and fixtures, but only if according to generally accepted standards of accounting for HMOs such supplies, furniture, equipment and fixtures are used by the HMO in connection with the direct provision of health care services;

6. Funds paid by the HMO into escrow for the purpose of purchasing or building offices or medical facilities but only if according to generally accepted standards of accounting for HMOs such offices or facilities are for use by the HMO in connection with the direct provision of health care services;

7. Goodwill and other intangible assets. Any goodwill or intangible asset must be amortized on a straight-line basis over a period of five (5) years or less. Any goodwill or intangible asset accrued after September 1, 1989 will be admissible only with the prior consent of the director;

8. Amounts receivable from HMOs, health service corporations, insurance companies, self-insurance plans and third-party tortfeasors on account of coordination of benefits or subrogation, limited to the less of the

actual amounts receivable or the amounts received during the prior year;

9. Any other asset expressly approved in writing by the director.

(3) No asset shall be admissible except as stated in section (2). The following is a non-exclusive list of nonadmitted assets and no item listed may be admitted under section 376.307, RSMo:

(A) Premiums receivable net of bad debt allowance when the receivable is greater than ninety (90) days past due, except as allowed in paragraph (2)(B)3.;

(B) Prepaid expenses, except as allowed in paragraph (2)(B)6.;

(C) Security deposits;

(D) Automobiles;

(E) Office furniture and equipment in excess of fifty percent (50%) of its depreciated value;

(F) Computer software;

(G) Letters of credit, except to secure reinsurance credit as outlined in section 375.246, RSMo, pledges to purchase stock or other guarantees by outside organizations;

(H) Capital leases; and

(I) Any asset expressly disapproved in writing by the director.

(4) Liabilities shall be determined by the instructions to the National Association of Insurance Commissioners (NAIC) blank annual statement form for HMOs except the following need not be reflected as liabilities:

(A) Capital leases; and

(B) Any debt subordinated and approved under 20 CSR 200-1.070.

(5) In determining whether an HMO is financially responsible and may reasonably be expected to meet its obligations to enrollees and prospective enrollees under sections 354.410.1(3) and 354.470.1(4), RSMo and whether the continued operation of the HMO would be hazardous either to the enrollees or to the people of this state under section 354.480, RSMo, the director requires compliance with the following minimum standards:

(A) A new HMO forming initially, and for its first full calendar year of operation, must have net worth of at least ten percent (10%) of the yearly average of the three (3)-year annual premium projected in its applications for a certificate of authority, or three hundred thousand dollars (\$300,000) if an individual practice association, or one hundred fifty thousand dollars (\$150,000) if a medical group/staff, whichever is greater. After an HMO has been in business from January 1 through December 31 of a year, that is, one

(1) full calendar year, it shall be treated as an existing HMO;

(B) An existing HMO must maintain a net worth of at least two percent (2%) of annual premium as shown in the HMO's most recently filed annual statement, three hundred thousand dollars (\$300,000) for an individual practice association, or one hundred fifty thousand dollars (\$150,000) for a medical group/staff model, whichever is greater. The two percent (2%) of annual premium previously mentioned shall be phased in as follows:

1. Two-thirds of one percent (2/3 of 1%) of annual premium as of December 31, 1989;

2. One and one-third percent (1 1/3%) of annual premium as of December 31, 1990; and

3. Two percent (2%) of annual premium as of December 31, 1991 and after that date; and

(C) On any policy of insolvency insurance, the named insured must include the director of the Missouri Department of Insurance and his/her successor(s) in office.

*AUTHORITY: section 354.485, RSMo 2000.\* This rule was previously filed as 4 CSR 190-II.125. Original rule filed April 19, 1989, effective Sept. 1, 1989. Amended: Filed Sept. 15, 1992, effective June 7, 1993. Amended: Filed Nov. 23, 1998, effective July 30, 1999. Amended: Filed Dec. 14, 2000, effective July 30, 2001.*

*\*Original authority: 354.485, RSMo 1983.*

### 20 CSR 200-1.050 Financial Standards for Prepaid Dental Plans

*PURPOSE: This rule implements sections 354.705, 354.707, 354.710, 354.717, 354.720 and 354.722, RSMo relating to the financial requirements for the operation of prepaid dental plans. This rule is authorized under the provisions of section 354.723, RSMo.*

*Editor's Note: The secretary of state has determined that the publication of this rule in its entirety would be unduly cumbersome or expensive. The entire text of the material referenced has been filed with the secretary of state. This material may be found at the Office of the Secretary of State or at the headquarters of the agency and is available to any interested person at a cost established by state law.*

(1) Assets of a prepaid dental plan will be admitted and included in determining the

financial condition of the prepaid dental plan only if included within one (1) or more of the following list of admissible assets:

(A) Investable funds invested as follows shall be deemed admissible assets:

1. Any asset or investment described in and limited by sections 376.300, 376.305 and 376.307, RSMo; and

2. Any asset or investment representing the purchase, lease, construction, renovation, operation or maintenance of facilities from which dental benefits under the plan will be performed or property as may reasonably be required for the principal office of the prepaid dental plan or for other purposes as may be necessary in the transaction of the business of the plan; and

(B) Other assets shall be determined admissible assets, as follows:

1. Reinsurance recoverables;

2. Data processing system;

3. Premium receivable from any agency of this state, of any political subdivision of this state or of the United States;

4. Accrued interest receivable, if according to generally accepted standards of accounting for prepaid dental plans such interest is probably collectable;

5. Inventory of dental supplies, but only if according to generally accepted standards of accounting for prepaid dental plans such supplies are used by the prepaid dental plan in connection with the direct provision of dental services;

6. Funds paid by the prepaid dental plan into escrow for the purpose of purchasing or building offices or facilities from which dental benefits under the plan will be performed, but only if according to generally accepted standards of accounting for prepaid dental plans such offices or facilities are for use by the prepaid dental plan in connection with the direct provision of health care services;

7. Goodwill and other intangible assets. Any goodwill or intangible asset must be amortized on a straight-line basis over a period of five (5) years or less. Any goodwill or intangible asset accrued after April 1, 1990 will be admissible only with the prior consent of the director;

8. Amounts receivable on account of coordination of benefits or subrogation, limited to the actual amounts receivable or the amounts received during the prior year, whichever is less;

9. Any other asset expressly approved in writing by the director.

(2) No asset shall be admissible except as stated in section (1). The following list is a nonexclusive list of nonadmitted assets and no item listed may be admitted in determin-

ing the financial condition of the prepaid dental plan:

(A) Premiums receivable net of bad debt allowance when the receivable is greater than ninety (90) days past due, except as allowed in paragraph (1)(B)3.;

(B) Prepaid expenses, except as allowed in paragraph (1)(B)6.;

(C) Security deposits;

(D) Automobiles;

(E) Office furniture and equipment;

(F) Computer software;

(G) Letters of credit, except to secure reinsurance credit as outlined in section 375.246, RSMo, pledges to purchase stock or other guarantees by outside organizations;

(H) Capital leases; and

(I) Any asset expressly disapproved in writing by the director.

(3) Liabilities shall be determined by the instructions to the National Association of Insurance Commissioners (NAIC) blank annual statement form for health maintenance organizations or any blank annual statement forms designed specifically for prepaid dental plans except the following need not be reflected as liabilities:

(A) Capital leases; and

(B) Any debt subordinated and approved pursuant to 20 CSR 200-1.070.

(4) In lieu of the examination by the director or any of his/her duly appointed agents, the director may accept a full report of an examination or audit of an independent certified public accountant. The report shall be based on the standards set out in this rule.

*AUTHORITY: section 354.723, RSMo 2000.\* This rule was previously filed as 4 CSR 190-II.280. Original rule filed Dec. 12, 1989, effective April 1, 1990. Amended: Filed Dec. 14, 2000, effective July 30, 2001.*

*\*Original authority: 354.723, RSMo 1987.*

### 20 CSR 200-1.060 Chapter 383 Malpractice Associations and Financial Condition (Rescinded May 6, 1993)

*AUTHORITY: 374.045 and 383.010-383.500, RSMo 1986. This rule previously filed as 4 CSR 190-II.320. Original rule filed Sept. 19, 1990, effective March 14, 1991. Rescinded: Filed Sept. 2, 1992, effective May 6, 1993.*

**20 CSR 200-1.070 Subordinated Indebtedness**

*PURPOSE: This rule specifies information which must be submitted to the director for prior approval of subordinated indebtedness agreements, the form which consideration for these agreements must take and the accounting procedures to be followed. This rule implements sections 354.355, 354.480, 375.535, 375.540, 375.560 and 380.271, RSMo.*

(1) Application. This rule applies to all health service corporations, health maintenance organizations (HMOs), insurance companies and reciprocal interinsurance exchanges organized under the laws of this state and is applicable to any debts other than those shown as a legal liability of the company. Notwithstanding any other provision to the contrary, no company or other entity which has the power to assess its members may issue any subordinated indebtedness unless it is a mutual company organized under sections 379.205—379.310, RSMo.

(2) Definition, Subordinated Indebtedness (Surplus Notes). Subordinated indebtedness, for the purposes of this rule includes any contingent obligation for the repayment of a sum of money upon a written agreement that the loan or advance with interest shall be repaid only out of surplus profits of the company in excess of the minimum surplus as required by Missouri law and as shall be deemed necessary by the director of insurance to secure the interests of the policyholders and creditors of this company.

(3) Approval by the Director.

(A) The following shall be submitted to the director of insurance for approval:

1. Duplicate copies of the entire indebtedness agreement; and

2. Certified copy of the resolution of the board of directors of proper company body or committee which is empowered to authorize these agreements. The resolution shall stipulate the maximum amount of subordinated indebtedness authorized and the purpose for which it is incurred. It also shall limit the application of the proceeds to the specific purpose for which the indebtedness is incurred.

(B) After submission of the documents and approval, the director may authorize the execution of the indebtedness agreement. All agreements shall be executed and the consideration received immediately after the approval.

(4) Consideration. The consideration tendered to the company in exchange for the agreement shall be lawful money or other consideration as may be acceptable to and approved by the director.

(5) Reporting and Accounting of Indebtedness.

(A) The director shall be notified immediately in writing upon the execution of any indebtedness agreement as to the amount and to whom payable.

(B) Any existing subordinated indebtedness incurred prior to March 29, 1976, also shall be reported immediately in writing to the director.

(C) All outstanding subordinated indebtedness and interest accruing shall be reported at face value in the annual statement on page 3 and in other financial statements of the company as a special surplus account.

(6) Approval of Repayment by Director. Repayment of principal or payment of interest may be made only with the approval of the director when s/he is satisfied that the financial condition of the company warrants this action.

(7) Other Loans. Nothing in this section shall be construed to mean that a company may not otherwise borrow money, but the amount so borrowed with accrued interest shall be carried by the company as a liability.

*AUTHORITY: sections 354.120, 354.485, 374.045 and 380.561, RSMo 1986.\* This rule was previously filed as 4 CSR 190-11.010. Original rule filed June 12, 1970, effective July 1, 1970. Amended: Filed Aug. 5, 1974, effective Aug. 15, 1974. Amended: Filed July 18, 1989, effective Nov. 1, 1989.*

*\*Original authority: 354.040, RSMo 1973, amended 1983; 354.485, RSMo 1983; 374.045, RSMo 1967; and 380.561, RSMo 1984.*

**20 CSR 200-1.080 Salvage and Subrogation Recovered**

(Rescinded May 6, 1993)

*AUTHORITY: sections 374.045 and 379.105, RSMo 1986. This rule was previously filed as 4 CSR 190-11.020. Original rule filed Dec. 23, 1975, effective Jan. 2, 1976. Rescinded: Filed Aug. 4, 1992, effective May 6, 1993.*

**20 CSR 200-1.090 Mortgage Loans as Admissible Assets**

(Moved to 20 CSR 200-13.200)

**20 CSR 200-1.100 Real Estate Held After Ten Years**

(Moved to 20 CSR 200-13.300)

**20 CSR 200-1.110 Qualifications of Actuary or Consulting Actuary**

*PURPOSE: This rule describes the qualifications required of an actuary signing and certifying the life and accident and health annual statement of an insurer. This rule was adopted pursuant to the provisions of section 374.045, RSMo and implements section 376.350, RSMo.*

(1) Every life insurance company authorized to do business in this state is required to file an annual statement. Missouri instructions for completing the life and accident and health annual statement blank require that these forms be signed and certified by a qualified actuary.

(2) For this purpose, a "qualified actuary" shall mean a member in good standing of the American Academy of Actuaries.

(3) Scope. This rule shall apply to all reports, statements and other documents filed with the director or issued to the public in relation to the business of insurance.

(4) Restriction of Signing as an Actuary. No report, statement or document shall be filed with the director or issued to the public in relation to the business of insurance if it is signed by a person who represents him/herself in the instrument to be an actuary unless the person signing as an actuary is a qualified actuary.

(5) Actuarial Representation. No person in any representation made to the public or to the director in respect to any matter subject to this rule shall use the word actuary or actuarial to indicate a degree of professional competence unless the representation was prepared or approved by a qualified actuary.

(6) Annual Statements of Domestic Life Insurance Companies. Section 376.380, RSMo prescribes the general form of the annual statement which must be filed with the director each year. The form which is required by the director is that which has been developed by the National Association of Insurance Commissioners. This form now includes a requirement relating to policy reserves and other actuarial items. The instructions for completion of the blank describe the content of this requirement. The

items on which actuarial opinion is required are—

(A) Aggregate reserve for life policies and contracts (Exhibit 8);

(B) Aggregate reserve for accident and health policies (Exhibit 9);

(C) Net deferred and uncollected premiums; and

(D) Policy and Contract Claims—Liability End of Current Year (Exhibit 11, Part 1). The expanded actuarial opinion requirements with respect to life insurance company reserves has been designed with the intent to provide greater assurance that policyholders' benefits and shareholders' interests are being properly protected through adequate reserve practices. If the company does not employ an actuary on a staff or consulting basis, the department will use the verification made by the department's actuary or the consulting actuary to the department in lieu of that called for in the instructions. The necessary information and data to render an opinion must be provided by the company and the individual of the company responsible for this compilation must submit a statement to the department that the listings and summaries of policies in force and other information necessary to comply with these rules are complete and accurate to the best of his/her knowledge and belief. If the company intends to rely upon the verification by the department's actuary or consultant, it should so indicate in the space provided for certification.

(7) Qualified Opinions. A qualified opinion is usually an indication that some corrective action is indicated. The director will question any company, foreign or domestic, about which the opinion is received, whether that opinion is rendered by its own staff, its consultant or the department, as to its plans for correcting the indicated problem. It is recommended that in any situation in which an actuary finds it necessary to give a qualified opinion, s/he notify both the company and the department. If the department's actuary or consultant is unable to render an unqualified opinion, the department may require the company to obtain a separate opinion from another qualified actuary, which may be limited to the subject matter in question.

(8) Special Provisions for Certain Domestic Companies. The department is aware of the existence of some business in force on which there is no statutory basis for reserves. Lack of a statute, however, does not imply that no liability exists. The actuary valuing the business is not limited to statutory requirements for comparable business, but should use any appropriate assumptions and methods to

establish the true liability. S/he, of course, must be prepared to justify to the director his/her choice of assumptions and methods.

*AUTHORITY: sections 374.045 and 376.350, RSMo 2000.\* This rule was previously filed as 4 CSR 190-II.080. Original rule filed Aug. 5, 1974, effective Aug. 15, 1974. Amended: Filed Aug. 16, 1977, effective Dec. 11, 1977. Amended: Filed Dec. 14, 2000, effective July 30, 2001.*

*\*Original authority: 374.045, RSMo 1967, amended 1993, 1995; and 376.350, RSMo 1939, amended 2000.*

### 20 CSR 200-1.115 Actuarial Opinions of Reserves of Life and Health Insurance Policies, Annuities and Pure Endowment Contracts

*PURPOSE: This rule effectuates or aids in the interpretation of sections 376.370, 376.380 and 376.390, RSMo.*

#### (1) Actuarial Opinion Required.

(A) Every life insurance company doing business in this state annually shall submit the opinion of a qualified actuary as to whether the reserves and related actuarial items held in support of the company's policies and contracts are computed appropriately, are based on assumptions which satisfy contractual provisions, are consistent with prior reported amounts and comply with applicable laws of this state.

(B) The opinion shall be submitted with the annual statement reflecting the valuation of those reserve liabilities for each year ending on or after December 31, 1992.

(C) The opinion shall apply to all business in force including individual and group health insurance plans.

(D) The opinion shall be based on standards adopted from time-to-time by the Actuarial Standards Board.

(E) In the case of an opinion required to be submitted by a foreign or alien company, the director may accept the opinion filed by that company with the insurance supervisory official of another state if the director determines that the opinion reasonably meets the requirements applicable to a company domiciled in this state.

(F) For the purposes of this section, qualified actuary means a member in good standing of the American Academy of Actuaries who meets the requirements set forth in those rules.

(G) Except in cases of fraud or willful misconduct, the qualified actuary shall not be liable for damages to any person (other than the insurance company and the director) for

any act, error, omission, decision or conduct with respect to the actuary's opinion.

(H) Disciplinary action by the director against the company or the qualified actuary shall include any actions authorized by the insurance laws of this state and as to the qualified actuary, refusal to accept future opinions.

(I) A memorandum, in form and substance acceptable to the director, shall be prepared to support each actuarial opinion.

(J) If the insurance company fails to provide a supporting memorandum at the request of the director within thirty (30) days of that request, or the director determines that the supporting memorandum provided by the insurance company fails to meet the standards prescribed by this rule, or is otherwise unacceptable to the director, the director may engage a qualified actuary at the expense of the company to review the opinion and the basis for the opinion and prepare the supporting memorandum as is required by the director.

(K) Any memorandum in support of the opinion, and any other material provided by the company to the director in connection with the opinion shall be kept confidential by the director and shall not be made public and shall not be subject to subpoena, other than for the purpose of defending an action seeking damages from any person by reason of any action required by this rule; provided, that the memorandum or other material may otherwise be released by the director—a) with the written consent of the company or b) to the American Academy of Actuaries upon request stating that the memorandum or other material is required for the purpose of professional disciplinary proceedings and setting forth procedures satisfactory to the director for preserving the confidentiality of the memorandum or other material. Once any portion of the confidential memorandum is cited by the company in its marketing, or is cited before any governmental agency other than a state insurance department, or is released by the company to the news media, all portions of the confidential memorandum shall no longer be confidential.

#### (2) Matching Assets to Liabilities.

(A) Annually every life insurance company, except as may be exempted by or pursuant to this rule, also shall include in the opinion required by subsection (1)(A) of this rule, an opinion of the same qualified actuary as to whether the reserves and related actuarial items held in support of the policies and contracts specified by the director by this rule, when considered in light of the assets held by the company with respect to the reserves and

related actuarial items, including, but not limited to, the investment earnings on the assets and the considerations anticipated to be received and retained under the policies and contracts, make adequate provision for the company's obligations under the policies and contracts including, but not limited to, the benefits under and expenses associated with the policies and contracts.

(B) The director, on a case-by-case basis, may provide for a transition period for establishing any higher reserves which the qualified actuary may deem necessary in order to render the opinion required by this section.

*AUTHORITY: section 374.045.1(3), RSMo Supp. 1993.\* Original rule filed July 2, 1991, effective Dec. 9, 1991.*

*\*Original authority: 374.045.1(3), RSMo 1967, amended 1993.*

## 20 CSR 200-1.116 Actuarial Opinion and Memorandum Regulation

*PURPOSE: This rule prescribes—*a) *guidelines and standards for statements of actuarial opinion which are to be submitted in accordance with sections 376.370, 376.380, RSMo and 20 CSR 200-1.115; b) guidelines and standards for statements of actuarial opinion which are to be submitted when a company is exempt from 20 CSR 200-1.115(2) and c) rules applicable to the appointment of an appointed actuary.*

### (1) Scope.

(A) This rule shall apply to all life insurance companies and fraternal benefit societies doing business in this state and to all life insurance companies and fraternal benefit societies which are authorized to reinsure life insurance, annuities or accident and health insurance business in this state. This rule shall be applicable to all annual statements filed with the director after the effective date of this rule. Except with respect to companies which are exempted pursuant to section (4) of this rule, a statement of opinion on the adequacy of the reserves and related actuarial items based on an asset adequacy analysis in accordance with section (6) of this rule, and a supporting memorandum in accordance with section (7) of this rule, shall be required each year. Any company so exempted must file a statement of actuarial opinion pursuant to section (5) of this rule.

(B) Notwithstanding subsection (1)(A), the director may require any company otherwise exempt pursuant to this rule to submit a statement of actuarial opinion and to prepare a supporting memorandum in accordance with

sections (6) and (7) of this rule if, in the opinion of the director, an asset adequacy analysis is necessary with respect to the company.

### (2) Definitions.

(A) Actuarial opinion means—

1. With respect to section (6), (7) or (8), the opinion of an appointed actuary regarding the adequacy of the reserves and related actuarial items based on an asset adequacy test in accordance with section (6) of this rule and with presently accepted Actuarial Standards; and

2. With respect to section (5), the opinion of an appointed actuary regarding the calculation of reserves and related items, in accordance with section (5) of this rule and with those presently accepted Actuarial Standards which specifically relate to this opinion.

(B) Actuarial Standards Board—is the board established by the American Academy of Actuaries to develop and promulgate standards of actuarial practice.

(C) Annual statement—means that statement required by sections 375.041 and 376.350, RSMo, to be filed by the company with the director annually.

(D) Appointed actuary—means any individual who is appointed or retained in accordance with the requirements set forth in subsection (3)(C) of this rule to provide the actuarial opinion and supporting memorandum as required by 20 CSR 200-1.115 and section 376.380, RSMo.

(E) Asset adequacy analysis—means an analysis that meets the standards and other requirements referred to in subsection (3)(D) of this rule. It may take many forms, including, but not limited to, cash flow testing, sensitivity testing or applications of risk theory.

(F) Company—means a life insurance company, fraternal benefit society or reinsurer subject to the provisions of this rule.

(G) Director—means the insurance director of this state.

(H) Noninvestment grade bonds—are those designated as classes 3, 4, 5 or 6 by the National Association of Insurance Commissioners (NAIC) Securities Valuation Office.

(I) Qualified actuary—means any individual who meets the requirements set forth in subsection (3)(B) of this rule.

### (3) General Requirements.

(A) Submission of Statement of Actuarial Opinion.

1. There is to be included on or attached to page 1 of the annual statement for each year beginning with the year in which this rule becomes effective the statement of an appointed actuary, entitled "Statement of

Actuarial Opinion," setting forth an opinion relating to reserves and related actuarial items held in support of policies and contracts, in accordance with section (6) of this rule; provided, however, that any company exempted pursuant to section (4) of this rule from submitting a statement of actuarial opinion in accordance with section (6) of this rule shall include on or attach to page 1 of the annual statement a statement of actuarial opinion rendered by an appointed actuary in accordance with section (5) of this rule.

2. If in the previous year a company provided a statement of actuarial opinion in accordance with section (5) of this rule, and in the current year fails the exemption criteria of paragraphs (4)(C)1., 2. or 5. to again provide an actuarial opinion in accordance with section (5), the statement of actuarial opinion in accordance with section (6) shall not be required until August 1 following the date of the annual statement. In this instance, the company shall provide a statement of actuarial opinion in accordance with section (5) with appropriate qualification noting the intent to subsequently provide a statement of actuarial opinion in accordance with section (6).

3. In the case of a statement of actuarial opinion required to be submitted by a foreign or alien company, the director may accept the statement of actuarial opinion filed by the company with the insurance supervisory regulator of another state if the director determines that the opinion reasonably meets the requirements applicable to a company domiciled in this state.

4. Upon written request by the company, the director may grant an extension of the date for submission of the statement of actuarial opinion.

(B) Qualified actuary. A qualified actuary is an individual who—

1. Is a member in good standing of the American Academy of Actuaries;

2. Is qualified to sign statements of actuarial opinion for life and health insurance company annual statements in accordance with the American Academy of Actuaries qualification standards for actuaries signing those statements;

3. Is familiar with the valuation requirements applicable to life and health insurance companies;

4. Has not been found by the director (or if so found has subsequently been reinstated as a qualified actuary), following appropriate notice and hearing to have—

A. Violated any provision of, or any obligation imposed by, the insurance law or other law in the course of his/her dealings as a qualified actuary;



B. Been found guilty of fraudulent or dishonest practices;

C. Demonstrated his/her incompetency, lack of cooperation or untrustworthiness to act as a qualified actuary;

D. Submitted to the director during the past five (5) years, pursuant to this rule, an actuarial opinion or memorandum that the director rejected because it did not meet the provisions of this rule including standards set by the Actuarial Standards Board; or

E. Resigned or been removed as an actuary within the past five (5) years as a result of acts or omissions indicated in any adverse report on examination or as a result of failure to adhere to generally acceptable actuarial standards; and

5. Has not failed to notify the director of any action taken by any director of another state similar to that under paragraph (3)(B)4.

(C) Appointed actuary. An appointed actuary is a qualified actuary who is appointed or retained to prepare the Statement of Actuarial Opinion required by this rule; either directly or by the authority of the board of directors through an executive officer of the company. The company shall give the director timely written notice of the name, title (and in the case of a consulting actuary, the name of the firm) and manner of appointment or retention of each person appointed or retained by the company as an appointed actuary and shall state in that notice that the person meets the requirements set forth in subsection (3)(B). Once notice is furnished, no further notice is required with respect to this person, provided that the company shall give the director timely written notice in the event the actuary ceases to be appointed or retained as an appointed actuary or to meet the requirements set forth in subsection (3)(B). If any person appointed or retained as an appointed actuary replaces a previously appointed actuary, the notice shall so state and give the reasons for replacement.

(D) Standards for Asset Adequacy Analysis. The asset adequacy analysis required by this rule—

1. Shall conform to the Standards of Practice as promulgated from-time to-time by the Actuarial Standards Board and on any additional standards under this rule, which standards are to form the basis of the statement of actuarial opinion in accordance with section (6) of this rule; and

2. Shall be based on methods of analysis as are deemed appropriate for those purposes by the Actuarial Standards Board.

(E) Liabilities to Be Covered.

1. Under authority of 20 CSR 200-1.115 and sections 376.370 and 376.380, RSMo, the statement of actuarial opinion shall apply

to all in force business on the statement date regardless of when or where issued, for example, reserves of Exhibits 8, 9 and 10, and claim liabilities in Exhibit 11, Part I and equivalent items in the separate account statement(s).

2. If the appointed actuary determines as the result of asset adequacy analysis that a reserve should be held in addition to the aggregate reserve held by the company and calculated in accordance with methods set forth in sections 376.370 and 376.380, RSMo, the company shall establish an additional reserve.

3. For years ending prior to December 31, 1994, the company, in lieu of establishing the full amount of the additional reserve in the annual statement for that year, may set up an additional reserve in an amount not less than the following:

A. December 31, 1992—The additional reserve divided by three (3); and

B. December 31, 1993—Two (2) times the additional reserve divided by three (3).

4. Additional reserves established under paragraph (3)(E)2. or 3. and deemed not necessary in subsequent years may be released. Any amounts released must be disclosed in the actuarial opinion for the applicable year. The release of these reserves would not be deemed an adoption of a lower standard of valuation.

(4) Required Opinions.

(A) General. In accordance with 20 CSR 200-1.115 and sections 376.370 and 376.380, RSMo, every company doing business in this state shall annually submit the opinion of an appointed actuary as provided for by this rule. The type of opinion submitted shall be determined by the provisions set forth in this section and shall be in accordance with the applicable provisions in this rule.

(B) Company Categories. For purposes of this rule, companies shall be classified as follows based on the admitted assets as of the end of the calendar year for which the actuarial opinion is applicable:

1. Category A shall consist of those companies whose admitted assets do not exceed twenty (20) million dollars;

2. Category B shall consist of those companies whose admitted assets exceed twenty (20) million dollars but do not exceed one hundred (100) million dollars;

3. Category C shall consist of those companies whose admitted assets exceed one hundred (100) million dollars but do not exceed five hundred (500) million dollars; and

4. Category D shall consist of those companies whose admitted assets exceed five hundred (500) million dollars.

(C) Exemption Eligibility Tests.

1. Any Category A company that, for any year beginning with the year in which this rule becomes effective, meets all of the following criteria shall be eligible for exemption from submission of a statement of actuarial opinion in accordance with section (6) of this rule for the year in which these criteria are met. The ratios in subparagraphs (4)(C)1.A.—C. shall be calculated as follows based on amounts as of the end of the calendar year for which the actuarial opinion is applicable:

A. The ratio of the sum of capital and surplus to the sum of cash and invested assets is at least equal to one-tenth (.10);

B. The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is less than three-tenths (.30);

C. The ratio of the book value of the noninvestment grade bonds to the sum of capital and surplus is less than one-half (.50); and

D. The examiner team for the NAIC has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or the company has resolved the first or second priority status to the satisfaction of the director of the state of domicile and the director has so notified the chair of the NAIC Life and Health Actuarial Task Force and the NAIC Support and Services Office.

2. Any Category B company that, for any year beginning with the year in which this rule becomes effective, meets all of the following criteria shall be eligible for exemption from submission of a statement of actuarial opinion in accordance with section (6) of this rule for the year in which these criteria are met. The ratios in subparagraphs (4)(C)2.A.—C. shall be calculated as follows based on amounts as of the end of the calendar year for which the actuarial opinion is applicable:

A. The ratio of sum of capital and surplus to the sum of cash and invested assets is at least equal to seven-hundredths (.07);

B. The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is less than four-tenths (.40);

C. The ratio of the book value of the noninvestment grade bonds to the sum of capital and surplus is less than one-half (.50); and

D. The examiner team for the NAIC has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or the company has resolved the first or second priority status to the satisfaction of the director of the state of domicile and the director has so notified the chair of the NAIC Life and Health Actuarial Task Force and the NAIC Support and Services Office.

3. Any Category A or Category B company that meets all of the criteria set forth in paragraph (4)(C)1. or 2., whichever is applicable, is exempted from submission of a statement of actuarial opinion in accordance with section (6) of this rule unless the director specifically indicates to the company that the exemption is not to be taken.

4. Any Category A or Category B company that, for any year beginning with the year in which this rule becomes effective, is not exempted under paragraph (4)(C)3. shall be required to submit a statement of actuarial opinion in accordance with section (6) of this rule for the year for which it is not exempt.

5. Any Category C company that, after submitting an opinion in accordance with section (6) of this rule, meets all of the following criteria shall not be required, unless required in accordance with paragraph (4)(C)6. to submit a statement of actuarial opinion in accordance with section (6) of this rule more frequently than every third year. Any Category C company which fails to meet all of the following criteria for any year shall submit a statement of actuarial opinion in accordance with section (6) of this rule for that year. The ratios in (4)(C)5.A.—C. shall be calculated as follows based on amounts as of the end of the calendar year for which the actuarial opinion is applicable:

A. The ratio of the sum of capital and surplus to the sum of cash and invested assets is at least equal to five-hundredths (.05);

B. The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is less than one-half (.50);

C. The ratio of the book value of the noninvestment grade bonds to the sum of the capital and surplus is less than one-half (.50); and

D. The examiner team for the NAIC has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or the company has resolved the first or second priority status to the satisfaction of the director of the state of domicile and the director has so notified the chair of the NAIC Life and Health Actuarial Task Force and the NAIC Support and Services Office.

6. Any company which is not required by this section to submit a statement of actuarial opinion in accordance with section (6) of this rule for any year shall submit a statement of actuarial opinion in accordance with section (5) of this rule for that year unless as provided for by subsection (1)(B) of this rule the director requires a statement of actuarial opinion in accordance with section (6) of this rule.

(D) Large Companies. Every Category D company shall submit a statement of actuarial opinion in accordance with section (6) of this rule for each year beginning with the year in which this rule becomes effective.

#### (5) Statement of Actuarial Opinion Not Including an Asset Adequacy Analysis.

(A) General Description. The statement of actuarial opinion required by this section shall consist of a paragraph identifying the appointed actuary and his/her qualifications; a regulatory authority paragraph stating that the company is exempt pursuant to this rule from submitting a statement of actuarial opinion based on an asset adequacy analysis and that the opinion, which is not based on an asset adequacy analysis, is rendered in accordance with section (5) of this rule; a scope paragraph identifying the subjects on which the opinion is to be expressed and describing the scope of the appointed actuary's work; and an opinion paragraph expressing the appointed actuary's opinion as required by 20 CSR 200-1.115 and sections 376.370 and 376.380, RSMo.

(B) Recommended Language. The following language provided is that which in typical circumstances would be included in a statement of actuarial opinion in accordance with this section. The language may be modified as needed to meet the circumstances of a particular case, but the appointed actuary should use language which clearly expresses his/her professional judgment. However, in any event the opinion shall retain all pertinent aspects of the language provided in section (5):

1. The opening paragraph should indicate the appointed actuary's relationship to the company. For a company actuary, the opening paragraph of the actuarial opinion should read as follows: "I, (name of actuary), am (title) of (name of company) and a member of the American Academy of Actuaries. I was appointed by, or by the authority of, the board of directors of this insurer to render this opinion as stated in the letter to the director dated (insert date). I meet the Academy qualification standards for rendering the opinion and am familiar with the valuation requirements applicable to life and health companies." For a consulting actuary, the opening paragraph of the actuarial opinion should contain a sentence such as: "I, (name and title of actuary), a member of the American Academy of Actuaries, am associated with the firm of (insert name of consulting firm). I have been appointed by, or by the authority of, the board of directors of (name of company) to render this opinion as stated in the letter to the director dated (insert date). I meet the Academy qualification standards for rendering the opinion and am familiar with the valuation requirements applicable to life and health insurance companies.";

2. The regulatory authority paragraph should include a statement such as the following: "This company is exempt pursuant to regulation (insert designation) of the (name of state) insurance department from submitting a statement of actuarial opinion based on an asset adequacy analysis. This opinion, which is not based on an asset adequacy analysis, is rendered in accordance with section (5) of the regulation.";

3. The scope paragraph should contain a sentence such as the following: "I have examined the actuarial assumptions and actuarial methods used in determining reserves and related actuarial items listed here, as shown in the annual statement of the company, as prepared for filing with state regulatory officials, as of December 31, (. . . .)." The paragraph should list items and amounts with respect to which the appointed actuary is expressing an opinion. The list should include, but not be necessarily limited to:

A. Aggregate reserve and deposit funds for policies and contracts included in Exhibit 8;

B. Aggregate reserve and deposit funds for policies and contracts included in Exhibit 9;

C. Deposit funds, premiums, dividend and coupon accumulations, and supplementary contracts not involving life contingencies included in Exhibit 10; and

D. Policy and contract claims-liability end of current year included in Exhibit 11, Part I;

4. If the appointed actuary has examined the underlying records, the scope paragraph should also include the following: “My examination included a review of the actuarial assumptions and actuarial methods and of the underlying basic records and tests of the actuarial calculations as I considered necessary.”;

5. If the appointed actuary has not examined the underlying records, but has relied upon listings and summaries of policies in force prepared by the company or a third party, the scope paragraph should include a sentence such as one of the following:

A. “I have relied upon listings and summaries of policies and contracts and other liabilities in force prepared by (name and title of company officer certifying in-force records) as certified in the attached statement. (See accompanying affidavit by a company officer.) In other respects my examination included review of the actuarial assumptions and actuarial methods and tests of the actuarial calculations as I considered necessary”;

B. “I have relied upon (name of accounting firm) for the substantial accuracy of the in-force records inventory and information concerning other liabilities, as certified in the attached statement. In other respects my examination included review of the actuarial assumptions and actuarial methods and tests of the actuarial calculations as I considered necessary.” The statement of the person certifying shall follow the form indicated by paragraph (5)(B)10.;

6. The opinion paragraph should include the following: “In my opinion the amounts carried in the balance sheet on account of the actuarial items identified here:

A. “Are computed in accordance with presently accepted actuarial standards consistently applied and are fairly stated in accordance with sound actuarial principles;

B. “Are based on actuarial assumptions which produce reserves at least as great as those called for in any contract provision as to reserve basis and method, and are in accordance with all other contract provisions;

C. “Meet the requirements of the insurance law and regulations of the state of (state of domicile) and are at least as great as the minimum aggregate amounts required by the state in which this statement is filed;

D. “Are computed on the basis of assumptions consistent with those used in computing the corresponding items in the annual statement of the preceding year-end with an exception as noted here; and

E. “Include provision for all actuarial reserves and related statement items which ought to be established. The actuarial methods, considerations and analyses used informing my opinion conform to the appropriate Compliance Guidelines as promulgated by the Actuarial Standards Board, which guidelines form the basis of this statement of opinion.”;

7. The concluding paragraph should document the eligibility for the company to provide an opinion as provided by section (5). It shall include the following: “This opinion is provided in accordance with section (5). As such it does not include an opinion regarding the adequacy of reserves and related actuarial items when considered in light of the assets which support them. Eligibility for section (5) is confirmed as follows:

A. “The ratio of the sum of capital and surplus to the sum of cash and invested assets is (insert amount), which equals or exceeds the applicable criterion based on the admitted assets of the company;

B. “The ratio of the sum of the reserves and liabilities for annuities and deposits to the total admitted assets is (insert amount), which is less than the applicable criterion based on the admitted assets of the company;

C. “The ratio of the book value of the noninvestment grade bonds to the sum of capital and surplus is (insert amount), which is less than the applicable criterion of one-half (.50);

D. “To my knowledge, the NAIC examiner team has not designated the company as a first priority company in any of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable, or a second priority company in each of the two (2) calendar years preceding the calendar year for which the actuarial opinion is applicable or the company has resolved the first or second priority status to the satisfaction of the insurance supervisory regulatory official of the state of domicile”;

E. “To my knowledge there is not a specific request from any director requiring an asset adequacy analysis opinion.”

\_\_\_\_\_  
(Signature of Appointed Actuary)

\_\_\_\_\_  
(Address of Appointed Actuary)

\_\_\_\_\_  
(Telephone Number of Appointed Actuary)

8. If there has been any change in the actuarial assumptions from those previously employed, that change should be described in the annual statement or in a paragraph of the statement of actuarial opinion, and the reference in subparagraph (5)(B)6.D. to be consistent should read as follows: “. . . with the exception of the change described on Page (.) of the annual statement (or in the preceding paragraph).” The adoption for new issues or new claims or other new liabilities of an actuarial assumption which differs from a corresponding assumption used for prior new issues or new claims or other new liabilities is not a change in actuarial assumptions within the meaning of this paragraph;

9. If the appointed actuary is unable to form an opinion, s/he shall refuse to issue a statement of actuarial opinion. If the appointed actuary’s opinion is adverse or qualified, s/he shall issue an adverse or qualified actuarial opinion explicitly stating the reason(s) for this opinion. This statement should follow the scope paragraph and precede the opinion paragraph; and

10. If the appointed actuary does not express an opinion as to the accuracy and completeness of the listings and summaries of policies in force, there should be attached to the opinion, the statement of a company officer or accounting firm who prepared the underlying data similar to the following: “I (name of officer), (title) of (name and address of company or accounting firm), affirm that the listings and summaries of policies and contracts in force as of December 31, (\_\_\_\_), prepared for and submitted to (name of appointed actuary), were prepared under my direction and, to the best of my knowledge and belief, are substantially accurate and complete.”

\_\_\_\_\_  
(Signature of the Officer of the Company or Accounting Firm)

\_\_\_\_\_  
(Address of the Officer of the Company or Accounting Firm)

\_\_\_\_\_  
(Telephone Number of the Officer of the Company or Accounting Firm)

(6) Statement of Actuarial Opinion Based On an Asset Adequacy Analysis.

(A) General Description. The statement of actuarial opinion submitted in accordance with this section shall consist of—

1. A paragraph identifying the appointed actuary and his/her qualifications (see paragraph (6)(B)1.);

2. A scope paragraph identifying the subjects on which an opinion is to be expressed and describing the scope of the appointed actuary's work, including a tabulation delineating the reserves and related actuarial items which have been analyzed for asset adequacy and the method of analysis, (see paragraph (6)(B)2.) and identifying the reserves and related actuarial items covered by the opinion which have not been so analyzed;

3. A reliance paragraph describing those areas, if any, where the appointed actuary has deferred to other experts in developing data, procedures or assumptions (for example, anticipated cash flows from currently owned assets, including variation in cash flows according to economic scenarios (see paragraph (6)(B)3.) supported by a statement of each expert in the form prescribed by subsection (6)(E);

4. An opinion paragraph expressing the appointed actuary's opinion with respect to the adequacy of the supporting assets to mature the liabilities (see paragraph (6)(B)6.); and

5. One (1) or more additional paragraphs will be needed in individual company cases as follows:

A. If the appointed actuary considers it necessary to state a qualification of his/her opinion;

B. If the appointed actuary must disclose the method of aggregation for reserves of different products or lines of business for asset adequacy analysis;

C. If the appointed actuary must disclose reliance upon any portion of the assets supporting the Interest Maintenance Reserve (IMR) and the Asset Valuation Reserve (AVR) or other mandatory or voluntary statement reserves for asset adequacy analysis;

D. If the appointed actuary must disclose an inconsistency in the method of analysis or basis of asset allocation used at the prior opinion date with that used for this opinion;

E. If the appointed actuary must disclose whether additional reserves of the prior opinion date are released as of this opinion date and the extent of the release; and

F. If the appointed actuary chooses to add a paragraph briefly describing the assumptions which form the basis for the actuarial opinion.

(B) Recommended Language. The following paragraphs are to be included in the statement of actuarial opinion in accordance with this section. Language is that which in typical circumstances should be included in a statement of actuarial opinion. The language may be modified as needed to meet the cir-

cumstances of a particular case, but the appointed actuary should use language which clearly expresses his/her professional judgment. However, in any event the opinion shall retain all pertinent aspects of the language provided in this section:

1. The opening paragraph should generally indicate the appointed actuary's relationship to the company and his/her qualifications to sign the opinion. For a company actuary, the opening paragraph of the actuarial opinion should read as follows: "I, (name), am (title) of (insurance company name) and a member of the American Academy of Actuaries. I was appointed by, or by the authority of, the board of directors of this insurer to render this opinion as stated in the letter to the director dated (insert date). I meet the Academy qualification standards for rendering the opinion and am familiar with the valuation requirements applicable to life and health insurance companies." For a consulting actuary, the opening paragraph should contain a sentence such as: "I, (name), a member of the American Academy of Actuaries, am associated with the firm of (name of consulting firm). I have been appointed by, or by the authority of, the board of directors of (name of company) to render this opinion as stated in the letter to the director dated (insert date), I meet the Academy qualification standards for rendering this opinion and am familiar with the valuation requirements, relating to life and health companies.";

2. The scope paragraph should include a statement such as the following: "I have examined the actuarial assumptions and actuarial methods used in determining reserves and related actuarial items listed here, as shown in the annual statement of the company, as prepared for filing with state regulatory officials, as of December 31, 19(\_\_\_\_). Tabulated as follows are those reserves and related actuarial items which have been subjected to asset adequacy analysis":

**Reserves And Liabilities  
Asset Adequacy Tested Amounts**

Statement Item	Formula Reserves (1)	Additional Actuarial Reserves (a) (2)	Analysis Method (b)	Other Amount (3)	Total Amount (1)+(2)+(3) (4)
Exhibit 8					
A Life Insurance					
B Annuities					
C Supplementary Contracts Involving Life Contingencies					
D Accidental Death Benefit					
E Disability—Active					
F Disability—Disabled					
G Miscellaneous					
Total (Exhibit 8 Item 1, Page 3)	_____	_____		_____	_____
Exhibit 9					
A Active Life Reserve					
B Claim Reserve					
Total (Exhibit 9 Item 2, Page 3)	_____	_____		_____	_____
Exhibit 10					
1 Premiums and Other Deposit Funds					
1.1 Policyholder Premiums (Page 3, Line 10.1)					
1.2 Guaranteed Interest Contracts (Page 3, Line 10.2)					
1.3 Other Contract Deposit Funds (Page 3, Line 10.3)					
2 Supplementary Contracts Not Involving Life Contingencies (Page 3, Line 3)					
3 Dividend and Coupon Accumulations (Page 3, Line 5)					
Total Exhibit 10	_____	_____		_____	_____
Exhibit 11 Part 1					
1 Life (Page 3, Line 4.1)					
2 Health (Page 3, Line 4.2)					
Total Exhibit 11, Part 1	_____	_____		_____	_____
Separate Accounts (Page 3, Line 27)	_____	_____		_____	_____
TOTAL RESERVES	_____	_____		_____	_____
IMR (Page _____ Line _____)	_____	_____		_____	_____
AVR (Page _____ Line _____)	_____	_____		_____	_____

(a) \*Note: The additional actuarial reserves are the reserves established under paragraphs (3)(E)2. or 3.  
 (b) \*Note: The appointed actuary should indicate the method of analysis, determined in accordance with the standards for asset adequacy analysis referred to in subsection (3)(D) of this regulation, by means of symbols which should be defined in footnotes to the table.”

3. If the appointed actuary has relied on other experts to develop certain portions of the analysis, the reliance paragraph should include a statement such as the following:

A. "I have relied on (name), (title) for (for example, anticipated cash flows from currently owned assets, including variations in cash flows according to economic scenarios) and, as certified in the attached statement, . . ."; or

B. "I have relied on personnel as cited in the supporting memorandum for certain critical aspects of the analysis in reference to the accompanying statement." This statement of reliance on other experts should be accompanied by a statement by each of these experts of the form prescribed by subsection (6)(E);

4. If the appointed actuary has examined the underlying asset and liability records, the reliance paragraph should also include the following: "My examination included a review of the actuarial assumptions and actuarial methods and of the underlying basic asset and liability records and tests of the actuarial calculations as I considered necessary.";

5. If the appointed actuary has not examined the underlying records, but has relied upon listings and summaries of policies in force or asset records, prepared by the company or a third party, or a combination of these, the reliance paragraph should include a sentence such as: "I have relied upon listings and summaries (of policies and contracts, of asset records) prepared by (name and title of company officer certifying in-force records) as certified in the attached statement. In other respects my examination included a review of the actuarial assumptions and actuarial methods and tests of the actuarial calculations as I considered necessary." or "I have relied upon (name of accounting firm) for the substantial accuracy of the in-force records inventory and information concerning other liabilities, as certified in the attached statement. In other respects my examination included review of the actuarial assumptions and actuarial methods and tests of the actuarial calculations as I considered necessary." This section must be accompanied by a statement by each person relied upon of the form prescribed by subsection (6)(E); and

6. The opinion paragraph should include the following: "In my opinion the reserves and related actuarial values concerning the statement items identified here:

A. "Are computed in accordance with presently accepted actuarial standards consistently applied and are fairly stated, in accordance with sound actuarial principles;

B. "Are based on actuarial assumptions which produce reserves at least as great

as those called for in any contract provision as to reserve basis and method, and are in accordance with all other contract provisions;

C. "Meet the requirements of the insurance law and regulation of the state of (state of domicile) and are at least as great as the minimum aggregate amounts required by the state in which this statement is filed;

D. "Are computed on the basis of assumptions consistent with those used in computing the corresponding items in the annual statement of the preceding year-end (with any exceptions noted here);

E. "Include provision for all actuarial reserves and related statement items which ought to be established. The reserves and related items, when considered in light of the assets held by the company with respect to these reserves and related actuarial items including, but not limited to, the investment earnings on these assets, and the considerations anticipated to be received and retained under the policies and contracts, make adequate provision, according to presently accepted actuarial standards of practice, for the anticipated cash flows required by the contractual obligations and related expenses of the company. The actuarial methods, considerations and analyses used in forming my opinion conform to the appropriate Standards of Practice as promulgated by the Actuarial Standards Board, which standards form the basis of this statement of opinion. This opinion is updated annually as required by statute. To the best of my knowledge, there have been no material changes from the applicable date of the annual statement to the date of the rendering of this opinion which should be considered in reviewing this opinion" or "The following material change(s) which occurred between the date of the statement for which this opinion is applicable and the date of this opinion should be considered in reviewing this opinion: (Describe the change(s).) Note: Choose one of the preceding two paragraphs, whichever is applicable. The impact of unanticipated events subsequent to the date of this opinion is beyond the scope of this opinion. The analysis of asset adequacy portion of this opinion should be viewed recognizing that the company's future experience may not follow all the assumptions used in the analysis."

\_\_\_\_\_  
*(Signature of Appointed Actuary)*

\_\_\_\_\_  
*(Address of Appointed Actuary)*

\_\_\_\_\_  
*(Telephone Number of Appointed Actuary)*

(C) Assumptions for New Issues. The adoption for new issues or new claims or other new liabilities of an actuarial assumption which differs from a corresponding assumption used for prior new issues or new claims or other new liabilities is not a change in actuarial assumptions within the meaning of this section.

(D) Adverse Opinions. If the appointed actuary is unable to form an opinion, then s/he shall refuse to issue a statement of actuarial opinion. If the appointed actuary's opinion is adverse or qualified, then s/he shall issue an adverse or qualified actuarial opinion explicitly stating the reason(s) for that opinion. This statement should follow the scope paragraph and precede the opinion paragraph.

(E) Reliance on Data Furnished by Other Persons. If the appointed actuary does not express an opinion as to the accuracy and completeness of the listings and summaries of policies in force or asset oriented information, or both, there shall be attached to the opinion the statement of a company officer or accounting firm who prepared the underlying data similar to the following: "I (name of officer), (title), of (name of company or accounting firm), affirm that the listings and summaries of policies and contracts in force as of December 31, (\_\_\_\_), and other liabilities prepared for and submitted to (name of appointed actuary) were prepared under my direction and, to the best of my knowledge and belief, are substantially accurate and complete."

\_\_\_\_\_  
*(Signature of the Officer of the Company or Accounting Firm)*

\_\_\_\_\_  
*(Address of the Officer of the Company or Accounting Firm)*

\_\_\_\_\_  
*(Telephone Number of the Officer of the Company or Accounting Firm)*

Or "I, (name of officer), (title) of (name of company, accounting firm or security analyst), affirm that the listings, summaries and analyses relating to data prepared for and submitted to (name of appointed actuary) in support of the asset-oriented aspects of the opinion were prepared under my direction and, to the best of my knowledge and belief, are substantially accurate and complete."

\_\_\_\_\_  
*(Signature of the Officer of the Company, Accounting Firm or the Security Analyst)*

*(Address of the Officer of the Company,  
Accounting Firm or the Security Analyst)*

*(Telephone Number of the Officer of the  
Company, Accounting Firm or the  
Security Analyst, or both)*

(7) Description of Actuarial Memorandum Including an Asset Adequacy Analysis.

(A) General.

1. In accordance with 20 CSR 200-1.115 and sections 376.370 and 376.380, RSMo, the appointed actuary shall prepare a memorandum to the company describing the analysis done in support of his/her opinion regarding the reserves under a section (6) opinion. The memorandum shall be made available for examination by the director upon his/her request but shall be returned to the company after the examination and shall not be considered a record of the insurance department or subject to automatic filing with the director.

2. In preparing the memorandum, the appointed actuary may rely on, and include as a part of his/her own memorandum, memoranda prepared and signed by other actuaries who are qualified within the meaning of subsection (3)(B) of this rule, with respect to the areas covered in those memoranda, and so state in the memoranda.

3. If the director requests a memorandum and no memorandum exists or if the director finds that the analysis described in the memorandum fails to meet the standards of the Actuarial Standards Board or the standards and requirements of this rule, the director may designate a qualified actuary to review the opinion and prepare the supporting memorandum as is required for review. The reasonable and necessary expense of the independent review shall be paid by the company but shall be directed and controlled by the director.

4. The reviewing actuary shall have the same status as an examiner for purposes of obtaining data from the company and the work papers and documentation of the reviewing actuary shall be retained by the director; provided, however, that any information provided by the company to the reviewing actuary and included in the work papers shall be considered as material provided by the company to the director and shall be kept confidential to the same extent as is prescribed by law with respect to other material provided by the company to the director pursuant to the statute governing this rule. The reviewing actuary shall not be an

employee of a consulting firm involved with the preparation of any prior memorandum or opinion for the insurer pursuant to this rule for any one (1) of the current year or the preceding three (3) years.

(B) Details of the Memorandum Section Documenting Asset Adequacy Analysis (section (6)). When an actuarial opinion under section (6) is provided, the memorandum shall demonstrate that the analysis has been done in accordance with the standards for asset adequacy referred to in subsection (3)(D) of this rule and any additional standards under this rule. It shall specify—

1. For reserves—

A. Product descriptions including market description, underwriting and other aspects of a risk profile and the specific risks the appointed actuary deems significant;

B. Source of liability in force;

C. Reserve method and basis;

D. Investment reserves; and

E. Reinsurance arrangements;

2. For assets—

A. Portfolio descriptions, including a risk profile disclosing the quality, distribution and types of assets;

B. Investment and disinvestment assumptions;

C. Source of asset data; and

D. Asset valuation bases;

3. Analysis basis—

A. Methodology;

B. Rationale for inclusion/exclusion of different blocks of business and how pertinent risks were analyzed;

C. Rationale for degree of rigor in analyzing different blocks of business;

D. Criteria for determining asset adequacy; and

E. Effect of federal income taxes, reinsurance and other relevant factors;

4. Summary of results; and

5. Conclusion(s).

(C) Conformity to Standards of Practice. The memorandum shall include a statement: “Actuarial methods, considerations and analyses used in the preparation of this memorandum conform to the appropriate Standards of Practice as promulgated by the Actuarial Standards Board, which standards form the basis for this memorandum.”

(8) Additional Considerations for Analysis.

(A) Aggregation. For the asset adequacy analysis for the statement of actuarial opinion provided in accordance with section (6) of this rule, reserves and assets may be aggregated by either of the following methods:

1. Aggregate the reserves and related actuarial items, and the supporting assets, for different products or lines of business, before

analyzing the adequacy of the combined assets to mature the combined liabilities. The appointed actuary must be satisfied that the assets held in support of the reserves and related actuarial items so aggregated are managed in such a manner that the cash flows from the aggregated assets are available to help mature the liabilities from the blocks of business that have been aggregated; or

2. Aggregate the results of asset adequacy analysis of one (1) or more products or lines of business, the reserves for which prove through analysis to be redundant, with the results of one (1) or more products or lines of business, the reserves for which prove through analysis to be deficient. The appointed actuary must be satisfied that the asset adequacy results for the various products or lines of business for which the results are so aggregated—

A. Are developed using consistent economic scenarios; or

B. Are subject to mutually independent risks, that is, the likelihood of events impacting the adequacy of the assets supporting the redundant reserves is completely unrelated to the likelihood of events impacting the adequacy of the assets supporting the deficient reserves. In the event of any aggregation, the actuary must disclose in his/her opinion that reserves were aggregated on the basis of the method described in paragraph (8)(A)1., or subparagraphs (8)(A)2.A. or B., whichever is applicable, and describe the aggregation in the supporting memorandum.

(B) Selection of Assets for Analysis. The appointed actuary shall analyze only those assets held in support of the reserves which are the subject for specific analysis, called specified reserves. A particular asset or portion of an asset supporting a group of specified reserves cannot support any other group of specified reserves. An asset may be allocated over several groups of specified reserves. The annual statement value of the assets held in support of the reserves shall not exceed the annual statement value of the specified reserves, except as provided in subsection (8)(C). If the method of asset allocation is not consistent from year-to-year, the extent of its inconsistency should be described in the supporting memorandum.

(C) Use of Assets Supporting the Interest Maintenance Reserve and the Asset Valuation Reserve:

1. An appropriate allocation of assets in the amount of the IMR, whether positive or negative, must be used in any asset adequacy analysis. Analysis of risks regarding asset default may include an appropriate allocation of assets supporting the AVR; these AVR assets may not be applied for any other risks

with respect to reserve adequacy. Analysis of these and other risks may include assets supporting other mandatory or voluntary reserves available to the extent not used for risk analysis and reserve support.

2. The amount of the assets used for the AVR must be disclosed in the Table of Reserves and Liabilities of the opinion and in the memorandum. The method used for selecting particular assets or allocated portions of assets must be disclosed in the memorandum.

(D) Required Interest Scenarios. For the purpose of performing the asset adequacy analysis required by this rule, the qualified actuary is expected to follow standards adopted by the Actuarial Standards Board; nevertheless, the appointed actuary must consider in the analysis the effect of at least the following interest rate scenarios:

1. Level with no deviation;
2. Uniformly increasing over ten (10) years at one-half percent (.5%) per year and then level;
3. Uniformly increasing at one percent (1%) per year over five (5) years and then uniformly decreasing at one percent (1%) per year to the original level at the end of ten (10) years and then level;
4. An immediate increase of three percent (3%) and then level;
5. Uniformly decreasing over ten (10) years at one-half percent (.5%) per year and then level;
6. Uniformly decreasing at one percent (1%) per year over five (5) years and then uniformly increasing at one percent (1%) per year to the original level at the end of ten (10) years and then level; and
7. An immediate decrease of three percent (3%) and then level. For these and other scenarios which may be used, projected interest rates for a five (5)-year Treasury Note need not be reduced beyond the point where the five (5)-year Treasury Note yield would be at fifty percent (50%) of its initial level. The beginning interest rates may be based on interest rates for new investments as of the valuation date similar to recent investments allocated to support the product being tested or be based on an outside index, such as Treasury yields, of assets of the appropriate length on a date close to the valuation date. Whatever method is used to determine the beginning yield curve and associated interest rates should be specifically defined. The beginning yield curve and associated interest rates should be consistent for all interest rate scenarios.

(E) Documentation. The appointed actuary shall retain on file, for at least seven (7) years, sufficient documentation so that it will

be possible to determine the procedures followed, the analyses performed, the bases for assumptions and the results obtained.

*AUTHORITY: sections 374.045 and 376.380, RSMo Supp. 1993 and 376.370, RSMo 1986.\* Original rule filed Dec. 28, 1992, effective Sept. 9, 1993.*

*\*Original authority: 374.045 RSMo 1987, amended 1993; 376.370, RSMo 1939, amended 1943, 1947, 1961; and 376.380, RSMo 1939, amended 1943, 1947, 1959, 1961, 1971, 1975, 1979, 1982, 1993.*

**20 CSR 200-1.120 Take-Out Letters**

*PURPOSE: This rule states requirements for insurance companies entering into take-out letters and similar contracts to provide after-construction financing of commercial buildings. This rule was adopted pursuant to the provisions of section 374.045, RSMo and implements sections 376.300 and 379.080, RSMo.*

(1) Limitations on Amounts Guaranteed. Take-out letters and similar contracts to provide permanent after-construction financing of commercial buildings shall be subject to the following requirements:

- (A) Any such contract must be approved by the company investment committee, if any, or be signed by two (2) officers of the company; and
- (B) The total amount of all such contracts shall be disclosed in that company's annual statement in the interrogatory section.

*AUTHORITY: sections 374.045 and 379.080, RSMo Supp. 1993 and 376.300, RSMo 1986.\* This rule was previously filed as 4 CSR 190-II.100. Original rule filed Dec. 20, 1974, effective Dec. 30, 1974.*

*\*Original authority: 374.045, RSMo 1967; 376.300, RSMo 1939, amended 1943, 1945, 1945, 1949, 1953, 1961, 1963, 1973, 1979, 1982, 1985; and 379.080, RSMo 1939, amended 1943, 1947, 1963, 1977, 1981, 1982, 1985, 1987, 1989, 1993.*

**20 CSR 200-1.130 Letters of Credit**  
(Rescinded May 6, 1993)

*AUTHORITY: section 379.080.3(2)(d), RSMo 1986. This rule was previously filed as 4 CSR 190-II.240. Original rule filed July 20, 1989, effective Nov. 11, 1989. Rescinded: Filed Sept. 2, 1992, effective May 6, 1993.*

**20 CSR 200-1.140 Minimum Valuation Standards for Life, Accident and Health and Annuity Contracts**

*PURPOSE: This rule specifies standards for valuation of specifically identified life insurance, health and accident insurance policies. This rule was adopted pursuant to the provisions of section 374.045, RSMo and implements sections 376.380, 376.390, 376.405, 376.410 and 376.670, RSMo.*

- (1) Life Insurance.
  - (A) Group Insurance.
    1. Yearly renewable term life insurance (including waiver of premium and accidental death benefits).
      - A. Gross *pro rata* unearned premium method.
      - B. The Commissioners 1960 Standards Group Mortality Table with interest as specified in section 376.380, RSMo.
      - C. Any other valuation basis producing higher reserves.
        2. Inasmuch as the Federal Employees Group Life Insurance Act of 1954, 5 U.S.C.A. Section 8701, provides that appointive or elective officers or employees of the United States government, at a time and under conditions of eligibility as the Civil Service Commission by regulation may prescribe, shall be eligible to be insured for specified amounts of group life insurance and specified amounts of group accidental death and dismemberment insurance, as provided in the Act; and since as the Act requires the maintenance of a special contingency reserve upon group insurance issued or reinsured in accordance with its provisions, the provisions of this rule shall not be applicable to any group insurance issued or reinsured by a life insurance company in accordance with the provision of the Act.
        3. Inasmuch as the Servicemen's Group Life Insurance Act of 1965, 38 U.S.C.A. section 765, provides that members of the uniformed services on active duty shall be eligible to be insured for specified amounts of group life insurance, as provided in the Act; and inasmuch as the Act requires that maintenance of a special contingency reserve upon group insurance issued or reinsured in accordance with its provisions, the provisions of this rule shall not be applicable to any group insurance issued or reinsured by any life insurance company in accordance with the provisions of the Act.
  - (B) Credit Life Insurance. All credit life insurance shall be valued on the 1958 Commissioners Standards Ordinary Mortality Table with interest assumption of three



and one-half percent (3 1/2%) or any other valuation basis producing higher reserves.

(C) Other Standards.

1. Extra or additional reserves, calculated according to the previously mentioned standards, will be required in all cases to cover the nondeduction of deferred fractional premiums or return of premiums, in the event of death. No extra reserve is required when the basic policy reserve makes a provision for this, for example, when continuous functions are used.

2. Other valuation standards may be used so long as the reserves computed on those standards for each of the previously mentioned categories are greater in the aggregate than the reserves computed according to minimum standards.

3. Reserves for annuity and pure endowment contracts, for disability and accidental death benefits in all policies and contracts, for life insurance policies providing for a varying amount of insurance or requiring the payment of varying premiums, and for all other benefits, except life insurance and endowment benefits in life insurance policies, shall be calculated by a method consistent with the principles of the commissioner's reserve valuation method, as defined in section 376.380.2(b), RSMo. In the calculation of reserves for life policies containing coupon or annual pure endowment benefits, each benefit shall be treated as a pure endowment maturing for its cash value on the date it becomes due. This coupon or annual pure endowment benefit shall be considered to be a part of the guaranteed benefits provided for by the policies.

(2) Policies of Accident or Health Insurance, or Combination Policies of Accident and Health Insurance.

(A) On all such policies actually written there shall be maintained an unearned gross premium reserve computed according to the provisions of sections 376.410(1), RSMo.

(B) On all such policies written on a noncancellable plan and under the terms of which the company is obligated to renew or continue for a stated period, or to a stated age or for life, there shall be maintained active life reserves and reserves for losses in amounts not less than active life and loss reserves determined in accordance with the applicable minimum reserve standards prescribed by the National Association of Insurance Commissioners (NAIC) in its *Accounting Practices and Procedures Manual*.

(C) On all such policies other than those written on a noncancellable plan there shall be maintained reserves for losses in amounts

not less than loss reserves determined in accordance with the applicable minimum reserve standards prescribed by the NAIC in its *Accounting Practices and Procedures Manual*.

(D) In addition to the minimum reserves mentioned in section 376.410, RSMo, and elsewhere in this section, companies shall maintain reserves for extraordinary losses in amounts not less than extraordinary loss reserves determined in accordance with the applicable minimum reserve standards prescribed by the NAIC in its *Accounting Practices and Procedures Manual*.

(E) Credit Accident and Health Insurance. All credit accident and health insurance (both individual and group) shall be established and maintained on the basis of not less than the unearned gross premium computed on the basis of the sum of digits formula, commonly known as the Rule of 78.

(F) This section shall not apply to total and permanent disability benefits, or to accidental death benefits, contained in or supplemental to life insurance policies or other contracts and for which benefits the standard of valuation is prescribed by section 376.380, RSMo, or other sections of this or other rules of the Department of Insurance.

(3) The new operative date with respect to this rule, means the date on or before January 1, 1989 when the company files a written notice with the director of its election to comply with the provisions of section 376.380(3), RSMo or if no election is filed, the date is January 1, 1989.

**AUTHORITY:** sections 374.045, 376.380, 376.390, 376.405, 376.410 and 376.670, RSMo 2000. \* This rule was previously filed as 4 CSR 190-II.090. This version of rule filed Dec. 5, 1969, effective Dec. 15, 1969. Amended: Filed Aug. 5, 1974, effective Aug. 15, 1974. Amended: Filed July 9, 1976, effective Feb. 20, 1977. Amended: Filed Aug. 16, 1977, effective Dec. 11, 1977. Rescinded and readopted: Filed May 11, 1984, effective Nov. 13, 1984. Amended: Filed Dec. 14, 2000, effective July 30, 2001.

\*Original authority: 374.045, RSMo 1967 amended 1993, 1995; 376.380, RSMo 1939, amended 1943, 1947, 1959, 1961, 1965, 1971, 1975, 1979, 1982, 1993; 376.390, RSMo 1939, amended 1943; 376.405, RSMo 1959, amended 1984; 376.410, RSMo 1945; and 376.670, RSMo 1943, amended 1959, 1961, 1965, 1975, 1979, 1982.

**Survivors Ben. Ins. Co. v. Farmer, 514 SW2d 565 (Mo. 1974).** Superintendent of insurance has the duty to approve or disapprove life insurance contracts and forms and no contract or form may be used in Missouri without the approval of the superintendent.

## 20 CSR 200-1.150 General Standards Applicable to Audited Financial Reports

**PURPOSE:** This rule provides interpretations of various terms and provisions used in sections 375.1025—375.1062, RSMo which govern how the financial reports of insurers are to be audited.

**PUBLISHER'S NOTE:** The secretary of state has determined that the publication of the entire text of the material which is incorporated by reference as a portion of this rule would be unduly cumbersome or expensive. Therefore, the material which is so incorporated is on file with the agency who filed this rule, and with the Office of the Secretary of State. Any interested person may view this material at either agency's headquarters or the same will be made available at the Office of the Secretary of State at a cost not to exceed actual cost of copy reproduction. The entire text of the rule is printed here. This note refers only to the incorporated by reference material.

### (1) Definitions.

(A) As used in section 375.1037.4(3), RSMo, the phrase "has demonstrated a pattern or practice of failing to detect or disclose material information" shall be deemed to include, but not limited to, any accountant or accounting firm that has failed to detect or disclose an insolvency which is later determined to have existed on the "as of" date of a financial report which the accountant of firm has filed under sections 375.1025–375.1062, RSMo.

(B) As used in section 375.1032.3(3), RSMo, the term "insignificant" shall mean amounts which, when combined, will not exceed five percent (5%) of the insurer's total assets.

(C) As used in section 375.1045.1., RSMo, the term "material" as it relates to a misstatement of an insurer's financial condition shall mean any misstatement of the insurer's financial condition—

1. By an amount greater than or equal to twenty percent (≥20%) of the insurer's capital and surplus; or

2. By any amount where the independent certified public accountant determines the misstatement to be material in accordance with SAS No. 47, Audit Risk and Materiality in Conducting an Audit (AU Section 312 of the Professional Standards of the American Institute of Certified Public Accountants.)

(D) As used in section 375.1032.2(6)(c), RSMo, the term "significant" shall mean any intercompany transaction or balance involving an amount greater than or equal to five

percent ( $\geq 5\%$ ) of the insurer's capital and surplus.

(E) As provided in section 375.1037.3., RSMo, no partner or other person responsible for rendering a report under sections 375.1025–375.1062, RSMo, may act in that capacity for more than seven (7) consecutive years. For purposes of determining whether a person is competent under this section, a "year" shall be deemed to be that period of time beginning on January 1 and ending on December 31 of a given calendar year, commencing January 1, 1992.

(2) Pursuant to section 375.1047, RSMo, each insurer shall furnish the director with a written report prepared by the accountant describing the insurer's internal control structure noted by the accountant during the audit. SAS No. 60, Communication of Internal Control Structure Matters Noted in an Audit (AU Section 325 of the Professional Standards of the American Institute of Certified Public Accountants) requires an accountant to communicate significant deficiencies (known as "reportable conditions") noted during a financial statement audit to the appropriate parties within an entity. No report under section 375.1047, RSMo, needs to be issued if the accountant does not identify significant deficiencies. If significant deficiencies are noted, the written report shall be filed annually by the insurer with the director within sixty (60) days after the filing of the annual audited financial statements. The insurer shall provide a description of remedial actions taken or proposed to correct significant deficiencies, if those actions are not described in the accountant's report.

(3) An insurer may make written application to the director for approval to file audited consolidated or combined financial statements in lieu of separate annual audited financial statements if the insurer is part of a group of insurance companies which utilizes a pooling or one hundred percent (100%) reinsurance agreement that affects the solvency and integrity of the insurer's reserves and such insurer cedes all of its direct and assumed business to the pool. In such cases, if approved in writing by the director, a columnar consolidating or combining worksheet shall be filed with the report, as follows:

(A) Amounts shown on the consolidated or combined Audited Financial Report shall be shown on the worksheet;

(B) Amounts for each insurer subject to this section shall be stated separately;

(C) Noninsurance operations may be shown on the worksheet on a combined or individual basis;

(D) Explanations of consolidating and eliminating entries shall be included; and

(E) A reconciliation shall be included of any differences between the amounts shown in the individual insurer columns of the worksheet and comparable amounts shown on the Annual Statements of the insurers.

*AUTHORITY: sections 374.045, 375.1032, 375.1037, 375.1045, 375.013 and 375.1060 RSMo 1994.\* Original rule filed Aug. 11, 1992, effective May 6, 1993. Amended: Filed July 3, 1995, effective Feb. 25, 1996.*

*\*Original authority: 374.045, RSMo 1967, amended 1993; 375.1032, RSMo 1991, amended 1992; and 375.1037 and 375.1045, RSMo 1991.*

**20 CSR 200-1.160 Valuation of Life Insurance Policies**

*PURPOSE: The purpose of this regulation is to provide: 1) tables of select mortality factors and rules for their use; 2) rules concerning a minimum standard for the valuation of plans with nonlevel premiums or benefits; and 3) rules concerning a minimum standard for the valuation of plans with secondary guarantees. The method for calculating basic reserves defined in this regulation will constitute the Commissioners' Reserve Valuation Method for policies to which this regulation is applicable.*

(1) Applicability. This rule shall apply to all life insurance policies, with or without non-forfeiture values, issued on or after the effective date of this rule, subject to the following exceptions and conditions:

(A) Exceptions.

1. This rule shall not apply to any individual life insurance policy issued on or after the effective date of this rule if the policy is issued in accordance with and as a result of the exercise of a reentry provision contained in the original life insurance policy of the same or greater face amount, issued before the effective date of this rule, that guarantees the premium rates of the new policy. This rule also shall not apply to subsequent policies issued as a result of the exercise of such a provision, or a derivation of the provision, in the new policy.

2. This rule shall not apply to any universal life policy that meets all the following requirements:

A. Secondary guarantee period, if any, is five (5) years or less;

B. Specified premium for the secondary guarantee period is not less than the net level reserve premium for the secondary guarantee period based on the CSO valuation tables as defined in subsection (2)(F) and the applicable valuation interest rate; and,

C. The initial surrender charge is not less than one hundred percent (100%) of the first year annualized specified premium for the secondary guarantee period.

3. This rule shall not apply to any variable life insurance policy that provides for life insurance, the amount or duration of which varies according to the investment experience of any separate account or accounts.

4. This rule shall not apply to any variable universal life insurance policy that provides for life insurance, the amount or duration of which varies according to the investment experience of any separate account or accounts.

5. This rule shall not apply to a group life insurance certificate unless the certificate provides for a stated or implied schedule of maximum gross premiums required in order to continue coverage in force for a period in excess of one year.

(B) Conditions.

1. Calculation of the minimum valuation standard for policies with guaranteed nonlevel gross premiums or guaranteed nonlevel benefits (other than universal life policies), or both, shall be in accordance with the provisions of section (4).

2. Calculation of the minimum valuation standard for flexible premium and fixed premium universal life insurance policies that contain provisions resulting in the ability of a policyholder to keep a policy in force over a secondary guarantee period shall be in accordance with the provisions of section (5).

(2) Definitions. For purposes of this rule:

(A) "Basic reserves" means reserves calculated pursuant to section 376.380.1(2)(b), RSMo.

(B) "Contract segmentation method" means the method of dividing the period from issue to mandatory expiration of a policy into successive segments, with the length of each segment being defined as the period from the end of the prior segment (from policy inception, for the first segment) to the end of the latest policy year as determined below. All calculations are made using the 1980 CSO valuation tables, as defined in subsection (F) of this section (or any other valuation mortality table adopted by the National Association of Insurance Commissioners (NAIC), after the effective date of this rule and promulgated by rule by the director for this purpose)

and, if elected, the optional minimum mortality standard for deficiency reserves stipulated in subsection (3)(B) of this rule. The length of a particular contract segment shall be equal to the minimum of the value  $t$  for which  $G_t$  is greater than  $R_t$  (if  $G_t$  never exceeds  $R_t$  the segment length is deemed to be the number of years from the beginning of the segment to the mandatory expiration date of the policy), where  $G_t$  and  $R_t$  are defined as follows:

$$G_t = \frac{GP_{x+k+t}}{GP_{x+k+t-1}}$$

where:

$x$  = original issue age;  
 $k$  = the number of years from the date of issue to the beginning of the segment;  
 $t$  = 1, 2, ...;  $t$  is reset to 1 at the beginning of each segment;  
 $GP_{x+k+t-1}$  = Guaranteed gross premium per thousand of face amount for year  $t$  of the segment, ignoring policy fees only if level for the premium paying period of the policy.

$$R_t = \frac{q_{x+k+t}}{q_{x+k+t-1}}$$

However,  $R_t$  may be increased or decreased by one percent in any policy year, at the company's option, but  $R_t$  shall not be less than one;

where:

$x$ ,  $k$  and  $t$  are as defined above, and  
 $q_{x+k+t-1}$  = valuation mortality rate for deficiency reserves in policy year  $k+t$  but using the mortality of paragraph (3)(B)2. if paragraph (3)(B)3. is elected for deficiency reserves.

However, if  $GP_{x+k+t}$  is greater than 0 and  $GP_{x+k+t-1}$  is equal to 0,  $G_t$  shall be deemed to be 1000. If  $GP_{x+k+t}$  and  $GP_{x+k+t-1}$  are both equal to 0,  $G_t$  shall be deemed to be 0.

(C) "Deficiency reserves" means the excess, if greater than zero, of—

1. Minimum reserves calculated pursuant to section 376.380.1(2)(h), RSMo, over

2. Basic reserves.

(D) "Guaranteed gross premiums" means the premiums under a policy of life that are insurance guaranteed and determined at issue.

(E) "Maximum valuation interest rates" means the interest rates defined in section 376.380.2, RSMo, that are to be used in determining the minimum standard for the valuation of life insurance policies.

(F) "1980 CSO valuation tables" means the Commissioners' 1980 Standard Ordinary Mortality Table (1980 CSO Table) without ten-year selection factors, incorporated into section 376.380, RSMo, and 20 CSR 400-1.110, 20 CSR 400-1.120 and 20 CSR-1.130.

(G) "Scheduled gross premium" means the smallest illustrated gross premium at issue for other than universal life insurance policies. For universal life insurance policies, scheduled gross premium means the smallest specified premium described in paragraph (5)(A)3., if any, or else the minimum premium described in paragraph (5)(A)4.;

(H) Segmented Reserves.

1. "Segmented reserves" means reserves, calculated using segments produced by the contract segmentation method, equal to the present value of all future guaranteed benefits less the present value of all future net premiums to the mandatory expiration of a policy, where the net premiums within each segment are a uniform percentage of the respective guaranteed gross premiums within the segment. The uniform percentage for each segment is such that, at the beginning of the segment, the present value of the net premiums within the segment equals:

A. The present value of the death benefits within the segment, plus

B. The present value of any unusual guaranteed cash value (see subsection (4)(D)) occurring at the end of the segment, less

C. Any unusual guaranteed cash value occurring at the start of the segment, plus

D. For the first segment only, the excess of part (I) over part (II) as follows:

(I) A net level annual premium equal to the present value, at the date of issue, of the benefits provided for in the first segment after the first policy year, divided by the present value, at the date of issue, of an annuity of one (1) per year payable on the first and each subsequent anniversary within the first segment on which a premium falls due. However, the net level annual premium shall not exceed the net level annual premium on the nineteen (19)-year premium whole life plan of insurance of the same renewal year

equivalent level amount at an age one (1)-year higher than the age at issue of the policy.

(II) A net one (1)-year term premium for the benefits provided for in the first policy year.

2. The length of each segment is determined by the "contract segmentation method," as defined in this section.

3. The interest rates used in the present value calculations for any policy may not exceed the maximum valuation interest rate, determined with a guarantee duration equal to the sum of the lengths of all segments of the policy.

4. For both basic reserves and deficiency reserves computed by the segmented method, present values shall include future benefits and net premiums in the current segment and in all subsequent segments.

(I) "Tabular cost of insurance," means the net single premium at the beginning of a policy year for one (1)-year term insurance in the amount of the guaranteed death benefit in that policy year.

(J) "Ten-year select factors," means the select factors adopted with section 376.380, RSMo and 20 CSR 400-1.110, 20 CSR 400-1.120 and 20 CSR 400-1.130.

(K) Unitary Reserves.

1. "Unitary reserves" means the present value of all future guaranteed benefits less the present value of all future modified net premiums, where:

A. Guaranteed benefits and modified net premiums are considered to the mandatory expiration of the policy; and

B. Modified net premiums are a uniform percentage of the respective guaranteed gross premiums, where the uniform percentage is such that, at issue, the present value of the net premiums equals the present value of all death benefits and pure endowments, plus the excess of part (I) over part (II), as follows:

(I) A net level annual premium equal to the present value, at the date of issue, of the benefits provided for after the first policy year, divided by the present value, at the date of issue, of an annuity of one (1) per year payable on the first and each subsequent anniversary of the policy on which a premium falls due. However, the net level annual premium shall not exceed the net level annual premium on the nineteen (19)-year premium whole life plan of insurance of the same renewal year equivalent level amount at an age one (1) year higher than the age at issue of the policy.

(II) A net one (1)-year term premium for the benefits provided for in the first policy year.

2. The interest rates used in the present value calculations for any policy may not exceed the maximum valuation interest rate,

determined with a guarantee duration equal to the length from issue to the mandatory expiration of the policy.

(L) "Universal life insurance policy" means any individual life insurance policy under the provisions of which separately identified interest credits (other than in connection with dividend accumulations, premium deposit funds or other supplementary accounts) and mortality or expense charges are made to the policy.

(3) General Calculation Requirements for Basic Reserves and Premium Deficiency Reserves.

(A) At the election of the company for any one or more specified plans of life insurance, the minimum mortality standard for basic reserves may be calculated using the 1980 CSO valuation tables with select mortality factors (or any other valuation mortality table adopted by the NAIC after the effective date of this rule and promulgated by rule by the director for this purpose). If select mortality factors are elected, they may be:

1. The ten (10)-year select mortality factors incorporated into Section 376.380, RSMo, and 20 CSR 400-1.100, 20 CSR 400-1.120 and 20 CSR 400-1.130;

2. The select mortality factors in the Appendix; or

3. Any other table of select mortality factors adopted by the NAIC after the effective date of this rule and promulgated by rule by the director for the purpose of calculating basic reserves.

(B) Deficiency reserves, if any, are calculated for each policy as the excess, if greater than zero, of the quantity A over the basic reserve. The quantity A is obtained by recalculating the basic reserve for the policy using guaranteed gross premiums instead of net premiums when the guaranteed gross premiums are less than the corresponding net premiums. At the election of the company for any one or more specified plans of insurance, the quantity A and the corresponding net premiums used in the determination of quantity A may be based upon the 1980 CSO valuation tables with select mortality factors (or any other valuation mortality table adopted by the NAIC after the effective date of this rule and promulgated by rule by the director). If select mortality factors are elected, they may be:

1. The ten (10)-year select mortality factors incorporated into section 376.380, RSMo, and 20 CSR 400-1.110, 20 CSR 400-1.120 and 20 CSR 400-1.130;

2. The select mortality factors in the Appendix of this rule;

3. For durations in the first segment, X percent of the select mortality factors in the Appendix, subject to the following:

A. X may vary by policy year, policy form, underwriting classification, issue age or any other policy factor expected to affect mortality experience;

B. X shall not be less than twenty percent (20%);

C. X shall not decrease in any successive policy years;

D. X is such that, when using the valuation interest rate used for basic reserves, part (I) is greater than or equal to part (II):

(I) The actuarial present value of future death benefits, calculated using the mortality rates resulting from the application of X;

(II) The actuarial present value of future death benefits calculated using anticipated mortality experience without recognition of mortality improvement beyond the valuation date;

E. X is such that the mortality rates resulting from the application of X are at least as great as the anticipated mortality experience, without recognition of mortality improvement beyond the valuation date, in each of the first five (5) years after the valuation date;

F. The appointed actuary shall increase X at any valuation date where it is necessary to continue to meet all the requirements of paragraph (B)3.;

G. The appointed actuary may decrease X at any valuation date as long as X does not decrease in any successive policy years and as long as it continues to meet all the requirements of paragraph (B)3. of this section;

H. The appointed actuary shall specifically take into account the adverse effect on expected mortality and lapsation of any anticipated or actual increase in gross premiums; and

I. If X is less than one hundred percent (100%) at any duration for any policy, the following requirements shall be met:

(I) The appointed actuary shall annually prepare an actuarial opinion and memorandum for the company in conformance with the requirements of section 20 CSR 200-1.116(6);

(II) The appointed actuary shall annually opine for all policies subject to this rule as to whether the mortality rates resulting from the application of X meet the requirements of paragraph (B)3. of this section. This opinion shall be supported by an actuarial report, subject to appropriate Actuarial Standards of Practice promulgated by the Actuarial Standards Board of the

American Academy of Actuaries. The X factors shall reflect anticipated future mortality, without recognition of mortality improvement beyond the valuation date, taking into account relevant emerging experience; and

(III) The company shall file any opinion(s) required by parts (I) or (II) of this subparagraph with the director of the Department of Insurance as an attachment or attachments to and at the same time as the company's annual statement to which such opinion(s) relate.

4. Any other table of select mortality factors adopted by the NAIC after the effective date of this rule and promulgated by rule by the director for the purpose of calculating deficiency reserves.

(C) This subsection applies to both basic reserves and deficiency reserves. Any set of select mortality factors may be used only for the first segment. However, if the first segment is less than ten (10) years, the appropriate ten-year select mortality factors incorporated into section 376.380, RSMo, and 20 CSR 400-1.110, 20 CSR 400-1.120 and 20 CSR 400-1.130 may be used thereafter through the tenth policy year from the date of issue.

(D) In determining basic reserves or deficiency reserves, guaranteed gross premiums without policy fees may be used where the calculation involves the guaranteed gross premium, but only if the policy fee is a level dollar amount after the first policy year. In determining deficiency reserves, policy fees may be included in guaranteed gross premiums, even if not included in the actual calculation of basic reserves.

(E) Reserves for policies that have changes to guaranteed gross premiums, guaranteed benefits, guaranteed charges, or guaranteed credits that are unilaterally made by the insurer after issue and that are effective for more than one (1) year after the date of the change shall be the greatest of the following:

1. Reserves calculated ignoring the guarantee;

2. Reserves assuming the guarantee was made at issue; and

3. Reserves assuming that the policy was issued on the date of the guarantee.

(F) The director may require that the company document the extent of the adequacy of reserves for specified blocks, including, but not limited to policies issued prior to the effective date of this rule. This documentation may include a demonstration of the extent to which aggregation with other non-specified blocks of business is relied upon in the formation of the appointed actuary opinion pursuant to and consistent with the

requirements of section 20 CSR 200-1.116(6).

(4) Calculation of Minimum Valuation Standard for Policies with Guaranteed Nonlevel Gross Premiums or Guaranteed Nonlevel Benefits (Other than Universal Life Policies).

(A) Basic Reserves. Basic reserves shall be calculated as the greater of the segmented reserves and the unitary reserves. Both the segmented reserves and the unitary reserves for any policy shall use the same valuation mortality table and selection factors. At the option of the insurer, in calculating segmented reserves and net premiums, either of the adjustments described in paragraph 1. or 2. of this subsection may be made:

1. Treat the unitary reserve, if greater than zero, applicable at the end of each segment as a pure endowment and subtract the unitary reserve, if greater than zero, applicable at the beginning of each segment from the present value of guaranteed life insurance and endowment benefits for each segment;

2. Treat the guaranteed cash surrender value, if greater than zero, applicable at the end of each segment as a pure endowment; and subtract the guaranteed cash surrender value, if greater than zero, applicable at the beginning of each segment from the present value of guaranteed life insurance and endowment benefits for each segment.

(B) Deficiency Reserves.

1. The deficiency reserve at any duration shall be calculated:

A. On a unitary basis if the corresponding basic reserve determined by subsection (A) of this section is unitary;

B. On a segmented basis if the corresponding basic reserve determined by subsection (A) of this section is segmented; or

C. On the segmented basis if the corresponding basic reserve determined by subsection (A) of this section is equal to both the segmented reserve and the unitary reserve.

2. This subsection shall apply to any policy for which the guaranteed gross premium at any duration is less than the corresponding modified net premium calculated by the method used in determining the basic reserves, but using the minimum valuation standards of mortality (specified in subsection (3)(B)) and rate of interest.

3. Deficiency reserves, if any, shall be calculated for each policy as the excess if greater than zero, for the current and all remaining periods, of the quantity A over the basic reserve, where A is obtained as indicated in subsection (3)(B).

4. For deficiency reserves determined on a segmented basis, the quantity A is deter-

mined using segment lengths equal to those determined for segmented basic reserves.

(C) Minimum Value. Basic reserves may not be less than the tabular cost of insurance for the balance of the policy year, if mean reserves are used. Basic reserves may not be less than the tabular cost of insurance for the balance of the current modal period or to the paid to date, if later, but not beyond the next policy anniversary, if mid-terminal reserves are used. The tabular cost of insurance shall use the same valuation mortality table and interest rates as that used for the calculation of the segmented reserves. However, if select mortality factors are used, they shall be the ten (10)-year select factors incorporated into section 376.380, RSMo, and 20 CSR 400-1.110, 20 CSR 400-1.120 and 20 CSR 400-1.130. In no case may total reserves (including basic reserves, deficiency reserves and any reserves held for supplemental benefits that would expire upon contract termination) be less than the amount that the policy owner would receive (including the cash surrender value of the supplemental benefits, if any, referred to above), exclusive of any deduction for policy loans, upon termination of the policy.

(D) Unusual Pattern of Guaranteed Cash Surrender Values.

1. For any policy with an unusual pattern of guaranteed cash surrender values, the reserves actually held prior to the first unusual guaranteed cash surrender value shall not be less than the reserves calculated by treating the first unusual guaranteed cash surrender value as a pure endowment and treating the policy as an  $n$  year policy providing term insurance plus a pure endowment equal to the unusual cash surrender value, where  $n$  is the number of years from the date of issue to the date the unusual cash surrender value is scheduled.

2. The reserves actually held subsequent to any unusual guaranteed cash surrender value shall not be less than the reserves calculated by treating the policy as an  $n$  year policy providing term insurance plus a pure endowment equal to the next unusual guaranteed cash surrender value, and treating any unusual guaranteed cash surrender value at the end of the prior segment as a net single premium, where:

A.  $n$  is the number of years from the date of the last unusual guaranteed cash surrender value prior to the valuation date to the earlier of:

(I) The date of the next unusual guaranteed cash surrender value, if any, that is scheduled after the valuation date; or

(II) The mandatory expiration date of the policy; and

B. The net premium for a given year during the  $n$  year period is equal to the product of the net to gross ratio and the respective gross premium; and

C. The net to gross ratio is equal to part (I) divided by part (II) as follows:

(I) The present value, at the beginning of the  $n$  year period, of death benefits payable during the  $n$  year period plus the present value, at the beginning of the  $n$  year period, of the next unusual guaranteed cash surrender value, if any, minus the amount of the last unusual guaranteed cash surrender value, if any, scheduled at the beginning of the  $n$  year period.

(II) The present value, at the beginning of the  $n$  year period, of the scheduled gross premiums payable during the  $n$  year period.

3. For purposes of this subsection, a policy is considered to have an unusual pattern of guaranteed cash surrender values if any future guaranteed cash surrender value exceeds the prior year's guaranteed cash surrender value by more than the sum of:

A. One hundred ten percent (110%) of the scheduled gross premium for that year;

B. One hundred ten percent (110%) of one (1)-year's accrued interest on the sum of the prior year's guaranteed cash surrender value and the scheduled gross premium using the nonforfeiture interest rate used for calculating policy guaranteed cash surrender values; and

C. Five percent (5%) of the first policy year surrender charge, if any.

(E) Optional Exemption for Yearly Renewable Term Reinsurance (YRT). At the option of the company, the following approach for reserves on YRT reinsurance may be used:

1. Calculate the valuation net premium for each future policy year as the tabular cost of insurance for that future year;

2. Basic reserves shall never be less than the tabular cost of insurance for the appropriate period, as defined in subsection (4)(C);

3. Deficiency reserves.

A. For each policy year, calculate the excess, if greater than zero, of the valuation net premium over the respective maximum guaranteed gross premium.

B. Deficiency reserves shall never be less than the sum of the present values, at the date of valuation, of the excesses determined in accordance with subparagraph A. of this paragraph.

4. For purposes of this subsection, the calculations use the maximum valuation interest rate and the 1980 CSO mortality tables with or without ten (10)-year select mortality factors, or any other table adopted

by the NAIC after the effective date of this rule and promulgated by rule of the director for this purpose.

5. A reinsurance agreement shall be considered YRT reinsurance for purposes of this subsection if only the mortality risk is reinsured.

6. If the assuming company chooses this optional exemption, the ceding company's reinsurance reserve credit shall be limited to the amount of reserve held by the assuming company for the affected policies.

(F) Optional Exemption for Attained-Age-Based Yearly Renewable Term Life Insurance Policies. At the option of the company, the following approach for reserves for attained-age-based YRT life insurance policies may be used:

1. Calculate the valuation net premium for each future policy year as the tabular cost of insurance for that future year.

2. Basic reserves shall never be less than the tabular cost of insurance for the appropriate period, as defined in subsection (4)(C);

3. Deficiency reserves.

A. For each policy year, calculate the excess, if greater than zero, of the valuation net premium over the respective maximum guaranteed gross premium.

B. Deficiency reserves shall never be less than the sum of the present values, at the date of valuation, of the excesses determined in accordance with subparagraph A. of this paragraph.

4. For purposes of this subsection, the calculations use the maximum valuation interest rate and the 1980 CSO valuation tables with or without ten (10)-year select mortality factors, or any other table adopted by the NAIC after the effective date of this rule and promulgated by rule by the director for this purpose.

5. A policy shall be considered an attained-age-based YRT life insurance policy for purposes of this subsection if:

A. The premium rates (on both the initial current premium scale and the guaranteed maximum premium scale) are based upon the attained age of the insured such that the rate for any given policy at a given attained age of the insured is independent of the year the policy was issued; and

B. The premium rates (on both the initial current premium scale and the guaranteed maximum premium scale) are the same as the premium rates for policies covering all insured persons of the same sex, risk class, plan of insurance and attained age.

6. For policies that become attained-age-based YRT policies after an initial period of coverage, the approach of this subsection may be used after the initial period if:

A. The initial period is constant for all insured persons of the same sex, risk class and plan of insurance; or

B. The initial period runs to a common attained age for all insureds of the same sex, risk class and plan of insurance; and

C. After the initial period of coverage, the policy meets the conditions of paragraph 5. of this subsection.

7. If this election is made, this approach shall be applied in determining reserves for all attained-age-based YRT life insurance policies issued on or after the effective date of this rule.

(G) Exemption for Unitary Reserves for Certain *n*-Year Renewable Term Life Insurance Policies. Unitary basic reserves and unitary deficiency reserves need not be calculated for a policy if the following conditions are met:

1. The policy consists of a series of *n*-year periods, including the first period and all renewal periods, where *n* is the same for each period, except that for the final renewal period, *n* may be truncated or extended to reach the expiry age, provided that this final renewal period is less than ten (10) years and less than twice the size of the earlier *n*-year periods, and for each period, the premium rates on both the initial current premium scale and the guaranteed maximum premium scale are level;

2. The guaranteed gross premiums in all *n*-year periods are not less than the corresponding net premiums based upon the 1980 CSO Table with or without the ten (10)-year select mortality factors; and

3. There are no cash surrender values in any policy year.

(H) Exemption from Unitary Reserves for Certain Juvenile Policies. Unitary basic reserves and unitary deficiency reserves need not be calculated for a policy if the following conditions are met, based upon the initial current premium scale at issue:

1. At issue, the insured is age twenty-four (24) or younger;

2. Until the insured reaches the end of the juvenile period, which shall occur at or before age twenty-five (25), the gross premiums and death benefits are level, and there are no cash surrender values; and

3. After the end of the juvenile period, gross premiums are level for the remainder of the premium paying period, and death benefits are level for the remainder of the life of the policy.

(5) Calculation of Minimum Valuation Standard for Flexible Premium and Fixed Premium Universal Life Insurance Policies That Contain Provisions Resulting in the

Ability of a Policyowner to Keep a Policy in Force Over a Secondary Guarantee Period.

(A) General.

1. Policies with a secondary guarantee include:

A. A policy with a guarantee that the policy will remain in force at the original schedule of benefits, subject only to the payment of specified premiums;

B. A policy in which the minimum premium at any duration is less than the corresponding one (1)-year valuation premium, calculated using the maximum valuation interest rate and the 1980 CSO valuation tables with or without ten (10)-year select mortality factors, or any other table adopted after the effective date of this rule by the NAIC and promulgated by regulation by the director for this purpose; or

C. A policy with any combination of subparagraphs A. and B. of this paragraph.

2. A secondary guarantee period is the period for which the policy is guaranteed to remain in force subject only to a secondary guarantee. When a policy contains more than one secondary guarantee, the minimum reserve shall be the greatest of the respective minimum reserves at that valuation date of each unexpired secondary guarantee, ignoring all other secondary guarantees. Secondary guarantees that are unilaterally changed by the insurer after issue shall be considered to have been made at issue. Reserves described in subsections (B) and (C) below shall be recalculated from issue to reflect these changes.

3. Specified premiums mean the premiums specified in the policy, the payment of which guarantees that the policy will remain in force at the original schedule of benefits, but which otherwise would be insufficient to keep the policy in force in the absence of the guarantee if maximum mortality and expense charges and minimum interest credits were made and any applicable surrender charges were assessed.

4. For purposes of this section, the minimum premium for any policy year is the premium that, when paid into a policy with a zero account value at the beginning of the policy year, produces a zero account value at the end of the policy year. The minimum premium calculation shall use the policy cost factors (including mortality charges, loads and expense charges) and the interest crediting rate which are all guaranteed at issue.

5. The one (1)-year valuation premium means the net one (1) year premium based upon the original schedule of benefits for a given policy year. The one (1)-year valuation premiums for all policy years are calculated at issue. The select mortality factors defined

in paragraphs (3)(B)2., 3., and 4. may not be used to calculate the one (1)-year valuation premiums.

6. The one (1)-year valuation premium should reflect the frequency of fund processing, as well as the distribution of deaths assumption employed in the calculation of the monthly mortality charges to the fund.

(B) Basic Reserves for the Secondary Guarantees. Basic reserves for the secondary guarantees shall be the segmented reserves for the secondary guarantee period. In calculating the segments and the segmented reserves, the gross premiums shall be set equal to the specified premiums, if any, or otherwise to the minimum premiums, that keep the policy in force and the segments will be determined according to the contract segmentation method as defined in subsection (2)(B).

(C) Deficiency Reserves for the Secondary Guarantees. Deficiency reserves, if any, for the secondary guarantees shall be calculated for the secondary guarantee period in the same manner as described in subsection (4)(B) with gross premiums set equal to the specified premiums, if any, or otherwise to the minimum premiums that keep the policy in force.

(D) Minimum Reserves. The minimum reserves during the secondary guarantee period are the greater of:

1. The basic reserves for the secondary guarantee plus the deficiency reserve, if any, for the secondary guarantees; or

2. The minimum reserves required by other rules or regulations governing universal life plans.

(6) This rule incorporates by reference the Appendix hereto containing tables of select mortality factors.

(7) Effective Date. This rule shall become effective thirty (30) days after publication in the *Code of State Regulations* or on January 1, 2001, whichever later occurs.



**Appendix to Rule 20 CSR 200-1.160 Valuation of Life Insurance Policies**

**SELECT MORTALITY FACTORS**

This appendix contains tables of select mortality factors that are the bases to which the respective percentage of Section (3)(A)2, (3)(B)2, and (3)(B)3 are applied.

The six tables of select mortality factors contained herein include: (1) male aggregate, (2) male nonsmoker, (3) male smoker, (4) female aggregate, (5) female nonsmoker, and (6) female smoker.

These tables apply to both age last birthday and age nearest birthday mortality tables.

For sex-blended mortality tables, compute select mortality factors in the same proportion as the underlying mortality. For example, for the 1980 CSO-B Table, the calculated select mortality factors are eighty percent (80%) of the appropriate male table in this Appendix, plus twenty percent (20%) of the appropriate female table in this Appendix.





Appendix (continued)  
SELECT MORTALITY FACTORS

Issue	Male, Aggregate																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
Age	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	96	98	98	99	99	100	100	90	92	92	92	92	93	93	96	97	98	98	99	100
19	83	84	84	87	87	87	79	79	79	81	81	82	82	82	85	88	91	94	97	100
20	69	71	71	74	74	69	69	67	69	70	71	71	71	71	74	79	84	90	95	100
21	66	68	69	71	66	66	67	66	67	70	70	70	70	71	71	77	83	88	94	100
22	65	66	66	63	63	64	64	64	65	68	68	68	68	69	71	77	83	88	94	100
23	62	63	59	60	62	62	63	63	64	65	65	67	67	69	70	76	82	88	94	100
24	60	56	56	59	59	60	61	61	61	64	64	64	66	67	70	76	82	88	94	100
25	52	53	55	56	58	58	60	60	60	63	62	63	64	67	69	75	81	88	94	100
26	51	52	55	56	58	58	57	61	61	62	63	64	66	69	66	73	80	86	93	100
27	51	52	55	57	58	60	61	61	60	63	63	64	67	66	67	74	80	87	93	100
28	49	51	56	58	60	60	61	62	62	63	64	66	65	66	68	74	81	87	94	100
29	49	51	56	58	60	61	62	62	62	64	64	62	66	67	70	76	82	88	94	100
30	49	50	56	58	60	60	62	63	63	64	62	63	67	68	71	77	83	88	94	100
31	47	50	56	58	60	62	63	64	64	62	63	66	68	70	72	78	83	89	94	100
32	46	49	56	59	60	62	63	66	62	63	66	67	70	72	73	78	84	89	95	100
33	43	49	56	59	62	63	64	62	65	66	67	70	72	73	75	80	85	90	95	100
34	42	47	56	60	62	63	61	63	66	67	70	71	73	75	76	81	86	90	95	100
35	40	47	56	60	63	61	62	65	67	68	71	73	74	76	76	81	86	90	95	100
36	38	42	56	60	59	61	63	65	67	68	70	72	74	76	77	82	86	91	95	100
37	38	45	56	57	61	62	63	65	67	68	70	72	74	76	76	81	86	90	95	100
38	37	44	53	58	61	62	65	66	67	69	69	73	75	76	77	82	86	91	95	100
39	37	41	53	58	62	63	65	65	66	68	69	72	74	76	76	81	86	90	95	100
40	34	40	53	58	62	63	65	65	66	68	68	71	75	76	77	82	86	91	95	100

Issue	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
41	34	41	53	58	62	63	65	64	64	66	68	70	74	76	77	82	86	91	95	100
42	34	43	53	58	61	62	63	63	63	64	66	69	72	75	77	82	86	91	95	100
43	34	43	54	59	60	61	63	62	62	64	66	67	72	74	77	82	86	91	95	100
44	34	44	54	58	59	60	61	60	61	62	64	67	71	74	77	82	86	91	95	100
45	34	45	53	58	59	60	60	60	59	60	63	66	71	74	77	82	86	91	95	100
46	31	43	52	56	57	58	59	59	59	60	63	67	71	74	75	80	85	90	95	100
47	32	42	50	53	55	56	57	58	59	60	65	68	71	74	75	80	85	90	95	100
48	32	41	47	52	54	56	57	57	57	61	65	68	72	73	74	79	84	90	95	100
49	30	40	46	49	52	54	55	56	57	61	66	69	72	73	74	79	84	90	95	100
50	30	38	44	47	51	53	54	56	57	61	66	71	72	73	75	80	85	90	95	100
51	28	37	42	46	49	53	54	56	57	61	66	71	72	73	75	80	85	90	95	100
52	28	35	41	45	49	51	54	56	57	61	66	71	72	74	75	80	85	90	100	100
53	27	35	39	44	48	51	53	55	57	61	67	71	74	75	76	81	86	100	100	100
54	27	33	38	44	48	50	53	55	57	61	67	72	74	75	76	81	100	100	100	100
55	25	32	37	43	47	50	53	55	57	61	68	72	74	75	78	100	100	100	100	100
56	25	32	37	43	47	49	51	54	56	61	67	70	73	74	100	100	100	100	100	100
57	24	31	38	43	47	49	51	54	56	59	66	69	72	100	100	100	100	100	100	100
58	24	31	38	43	48	48	50	53	56	59	64	67	100	100	100	100	100	100	100	100
59	23	30	39	43	48	48	51	53	55	58	63	100	100	100	100	100	100	100	100	100
60	23	30	39	43	48	47	50	52	53	57	100	100	100	100	100	100	100	100	100	100
61	23	30	39	43	49	49	50	52	53	75	100	100	100	100	100	100	100	100	100	100
62	23	30	39	44	49	49	51	52	75	75	100	100	100	100	100	100	100	100	100	100
63	22	30	39	45	50	50	52	75	75	75	100	100	100	100	100	100	100	100	100	100
64	22	30	39	45	50	51	75	75	75	75	100	100	100	100	100	100	100	100	100	100
65	22	30	39	45	50	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
66	22	30	39	45	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
67	22	30	39	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
68	23	32	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
69	23	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
70	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100

Issue	Male, Aggregate																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
Age	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
71	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
72	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
73	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
74	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
75	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
76	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
77	48	52	55	60	60	65	70	70	70	70	70	100	100	100	100	100	100	100	100	100
78	48	52	55	60	60	65	70	100	100	100	100	100	100	100	100	100	100	100	100	100
79	48	52	55	60	60	65	100	100	100	100	100	100	100	100	100	100	100	100	100	100
80	48	52	55	60	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
81	48	52	55	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
82	48	52	55	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
83	48	52	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
84	48	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
85+	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Male, Non-Smoker  
Duration

Issue	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
Age	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	93	95	96	98	99	100	100	90	92	92	92	92	95	95	96	97	98	98	99	100
19	80	81	83	86	87	87	79	79	79	81	81	82	83	83	86	89	92	94	97	100
20	65	68	69	72	74	69	69	67	69	70	71	71	72	72	75	80	85	90	95	100
21	63	66	68	71	66	66	67	66	67	70	70	70	71	71	73	78	84	89	95	100
22	62	65	66	62	63	64	64	64	67	68	68	68	70	70	73	78	84	89	95	100
23	60	62	58	60	62	62	63	63	64	67	68	68	67	69	71	77	83	88	94	100
24	59	55	56	58	59	60	61	61	63	65	67	66	66	69	71	77	83	88	94	100
25	52	53	55	56	58	58	60	60	61	64	64	64	64	67	70	76	82	88	94	100
26	51	53	55	56	58	60	61	61	61	63	64	64	66	69	67	74	80	87	93	100
27	51	52	55	58	60	60	61	61	62	63	64	66	67	66	67	74	80	87	93	100
28	49	52	57	58	60	61	63	62	62	64	66	66	63	66	68	74	81	87	94	100
29	49	51	57	60	61	61	62	62	63	64	66	63	65	67	68	74	81	87	94	100
30	49	51	57	60	61	62	63	63	63	64	62	63	66	68	70	76	82	88	94	100
31	47	50	57	60	60	62	63	64	64	62	63	65	67	70	71	77	83	88	94	100
32	46	50	57	60	62	63	64	64	62	63	65	66	68	71	72	78	83	89	94	100
33	45	49	56	60	62	63	64	62	63	65	66	68	71	73	74	79	84	90	95	100
34	43	48	56	62	63	64	62	62	65	66	67	70	72	74	74	79	84	90	95	100
35	41	47	56	62	63	61	62	63	66	67	68	70	72	74	75	80	85	90	95	100
36	40	47	56	62	59	61	62	63	66	67	68	70	72	74	75	80	85	90	95	100
37	38	45	56	58	59	61	62	63	66	67	67	69	71	73	74	79	84	90	95	100
38	38	45	53	58	61	62	63	65	65	67	68	70	72	74	73	78	84	89	95	100
39	37	41	53	58	61	62	63	64	65	67	68	70	71	73	73	78	84	89	95	100
40	34	41	53	58	61	62	63	64	64	66	67	69	71	73	72	78	83	89	94	100



Age	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
41	34	41	53	58	61	61	62	62	63	65	65	67	69	71	71	77	83	88	94	100
42	34	43	53	58	60	61	62	61	61	63	64	66	67	69	71	77	83	88	94	100
43	32	43	53	58	60	61	60	60	60	60	62	64	66	68	69	75	81	88	94	100
44	32	44	52	57	59	60	60	59	59	58	60	62	65	67	69	75	81	88	94	100
45	32	44	52	57	59	60	59	57	57	57	59	61	63	66	68	74	81	87	94	100
46	32	42	50	54	56	57	57	56	55	56	59	61	63	65	67	74	80	87	93	100
47	30	40	48	52	54	55	55	54	54	55	59	61	62	63	66	73	80	86	93	100
48	30	40	46	49	51	52	53	53	54	55	57	61	62	63	63	70	78	85	93	100
49	29	39	43	48	50	51	50	51	53	54	57	61	61	62	62	70	77	85	92	100
50	29	37	42	45	47	48	49	50	51	54	57	61	61	61	61	69	77	84	92	100
51	27	35	40	43	45	47	48	50	51	53	57	60	61	61	62	70	77	85	92	100
52	27	34	39	42	44	45	48	49	50	53	56	60	60	62	62	70	77	85	100	100
53	25	31	37	41	44	45	47	49	50	51	56	59	61	61	62	70	77	100	100	100
54	25	30	36	39	43	44	47	48	49	51	55	59	59	61	62	70	100	100	100	100
55	24	29	35	38	42	43	45	48	49	50	56	58	59	61	62	100	100	100	100	100
56	23	29	35	38	42	42	44	47	48	50	55	57	58	59	100	100	100	100	100	100
57	23	28	35	38	42	42	43	45	47	49	53	55	56	100	100	100	100	100	100	100
58	22	28	33	37	41	41	43	45	45	47	51	53	100	100	100	100	100	100	100	100
59	22	26	33	37	41	41	42	44	44	46	50	100	100	100	100	100	100	100	100	100
60	20	26	33	37	41	40	41	42	42	45	100	100	100	100	100	100	100	100	100	100
61	20	26	33	37	41	40	41	42	42	42	100	100	100	100	100	100	100	100	100	100
62	19	25	32	38	40	40	41	42	42	75	100	100	100	100	100	100	100	100	100	100
63	19	25	33	36	40	40	41	41	75	75	100	100	100	100	100	100	100	100	100	100
64	18	24	32	36	39	40	75	75	75	75	100	100	100	100	100	100	100	100	100	100
65	18	24	32	36	39	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
66	18	24	32	36	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
67	18	24	32	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
68	18	24	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
69	18	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
70	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100

Issue Age	Male, Non-Smoker																			
	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
71	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
72	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
73	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
74	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
75	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
76	48	52	55	60	60	65	70	70	70	100	100	100	100	100	100	100	100	100	100	100
77	48	52	55	60	60	65	70	70	100	100	100	100	100	100	100	100	100	100	100	100
78	48	52	55	60	60	65	70	100	100	100	100	100	100	100	100	100	100	100	100	100
79	48	52	55	60	60	65	100	100	100	100	100	100	100	100	100	100	100	100	100	100
80	48	52	55	60	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
81	48	52	55	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
82	48	52	55	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
83	48	52	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
84	48	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
85+	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100



Issue	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
Age	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	98	100	100	100	100	100	100	99	99	99	100	99	99	99	100	100	100	100	100	100
21	95	98	99	100	95	96	96	95	96	97	97	96	96	96	96	97	98	98	99	100
22	92	95	96	90	90	93	93	92	93	95	95	93	93	92	93	94	96	97	99	100
23	90	92	85	88	88	89	89	89	90	90	90	90	89	90	92	94	95	97	98	100
24	87	81	82	85	84	86	88	86	86	88	88	86	86	88	89	91	93	96	98	100
25	77	78	79	82	81	83	83	82	83	85	84	84	84	85	86	89	92	94	97	100
26	75	77	79	82	82	83	83	82	83	84	84	84	84	85	81	85	89	92	96	100
27	73	75	78	82	82	83	83	82	82	82	82	84	84	80	81	85	89	92	96	100
28	71	73	79	82	81	82	83	81	81	82	82	82	80	80	81	85	89	92	96	100
29	69	72	78	81	81	82	82	81	81	81	81	77	80	80	81	85	89	92	96	100
30	68	71	78	81	81	81	82	81	81	81	76	77	80	80	81	85	89	92	96	100
31	65	70	77	81	79	81	82	81	81	76	77	79	81	81	83	86	90	93	97	100
32	63	67	77	78	79	81	81	81	76	77	77	80	83	83	85	88	91	94	97	100
33	60	65	74	78	79	79	81	76	77	77	79	80	83	85	85	88	91	94	97	100
34	57	62	74	77	79	79	75	76	77	79	79	81	83	85	87	90	92	95	97	100
35	53	60	73	77	79	75	75	76	77	79	80	82	84	86	88	90	93	95	98	100
36	52	59	71	75	74	75	75	76	77	79	79	81	83	85	87	90	92	95	97	100
37	49	58	70	71	74	74	75	76	77	78	79	81	84	86	86	89	92	94	97	100
38	48	55	66	70	72	74	74	75	76	78	79	81	83	85	87	90	92	95	97	100
39	45	50	65	70	72	72	74	74	75	77	79	81	84	86	86	89	92	94	97	100
40	41	49	63	68	71	72	73	74	74	76	78	80	83	85	86	89	92	94	97	100

Male, Smoker

Duration

Issue	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
Age	40	49	63	68	71	72	72	72	73	75	76	78	81	84	85	88	91	94	97	100
41	40	49	62	68	70	71	71	71	71	73	75	76	81	83	85	88	91	94	97	100
42	39	50	62	67	69	69	70	70	70	71	73	76	79	83	85	88	91	94	97	100
43	39	50	60	66	68	69	68	69	69	69	71	74	79	81	85	88	91	94	97	100
44	37	50	60	66	68	68	68	67	67	67	69	73	78	81	85	88	91	94	97	100
45	37	48	58	63	65	67	66	66	66	67	71	74	78	81	84	87	90	94	97	100
46	36	47	55	61	63	64	64	64	65	67	71	75	79	81	84	87	90	94	97	100
47	35	46	53	58	60	62	63	63	65	67	72	75	79	81	83	86	90	93	97	100
48	34	45	51	56	58	59	61	62	63	67	72	77	80	81	83	86	90	93	97	100
49	34	43	49	53	55	57	60	61	63	67	73	78	80	81	81	85	89	92	96	100
50	32	42	47	52	55	57	60	61	63	67	73	78	80	83	84	87	90	94	97	100
51	32	40	46	50	54	56	60	61	63	67	73	78	81	84	85	88	91	94	100	100
52	30	37	44	49	54	56	59	61	65	67	74	79	83	85	87	90	92	100	100	100
53	30	36	43	48	53	55	59	61	65	67	74	80	84	85	89	91	100	100	100	100
54	29	35	42	47	53	55	59	61	65	67	75	80	84	86	90	100	100	100	100	100
55	28	35	42	47	53	55	57	60	63	68	74	79	83	85	100	100	100	100	100	100
56	28	35	42	47	53	54	57	60	64	67	74	78	81	100	100	100	100	100	100	100
57	26	33	43	48	54	54	56	59	63	67	73	78	100	100	100	100	100	100	100	100
58	26	33	43	48	54	53	57	59	63	66	73	100	100	100	100	100	100	100	100	100
59	25	33	43	48	54	53	56	58	62	66	100	100	100	100	100	100	100	100	100	100
60	25	33	43	49	55	55	57	59	63	75	100	100	100	100	100	100	100	100	100	100
61	25	33	43	50	56	56	58	61	75	75	100	100	100	100	100	100	100	100	100	100
62	24	33	45	51	56	56	59	75	75	75	100	100	100	100	100	100	100	100	100	100
63	24	34	45	51	57	57	75	75	75	75	100	100	100	100	100	100	100	100	100	100
64	24	34	45	52	57	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
65	24	35	45	53	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
66	25	35	45	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
67	25	36	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
68	27	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
69	48	52	55	60	60	65	70	70	70	70	100	100	100	100	100	100	100	100	100	100
70																				