CHAPTER 2747 DEPARTMENT OF COMMERCE VALUATION OF LIFE INSURANCE POLICIES

2747.0010 2747.0020 2747.0030

2747.0040

APPLICABILITY. DEFINITIONS.

GENERAL CALCULATION REQUIREMENTS FOR BASIC RESERVES AND PREMIUM DEFICIENCY RESERVES.
CALCULATION OF MINIMUM VALUATION STANDARD FOR POLICIES WITH

GUARANTEED NONLEVEL GROSS PREMIUMS OR GUARANTEED NONLEVEL

BENEFITS OTHER THAN UNIVERSAL LIFE POLICIES.

2747.0050

MINIMUM VALUATION STANDARD FOR CERTAIN FLEXIBLE PREMIUM AND FIXED PREMIUM UNIVERSAL LIFE INSURANCE POLICIES: SECONDARY GUARANTEE PERIOD POLICIES. SELECT MORTALITY FACTORS.

2747.0060 2747 0065

2001 CSO MORTALITY TABLE.

2747.0010 APPLICABILITY.

Subpart 1. Generally. This chapter applies to all life insurance policies, with or without nonforfeiture values, issued on or after January 1, 2000, subject to the exceptions and conditions in subparts 2 and 3.

Subp. 2. Exceptions.

- A. This chapter does not apply to an individual life insurance policy issued on or after January 1, 2000, if the policy is issued according to 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 January 1, 2000, that guarantees the premium rates of the new policy. This chapter also does 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.
- B. This chapter does not apply to any universal life policy that meets all of the following requirements:
 - (1) the secondary guarantee period, if any, is five years or less;
- (2) the specified premium for the secondary guarantee period is not less than the net level reserve premium for the secondary guarantee period based on the 1980 CSO valuation tables as defined in part 2747.0020 and the applicable valuation interest rate: and
- (3) the initial surrender charge is not less than 100 percent of the first year annualized specified premium for the secondary guarantee period.
- C. This chapter does 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.
- D. This chapter does not apply to a 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.
- E. This chapter does 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.

Subp. 3. Conditions.

- A. Calculation of the minimum valuation standard for policies with guaranteed nonlevel gross premiums or guaranteed nonlevel benefits, other than universal life policies, or both, is according to part 2747.0040.
- B. 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, is according to part 2747.0050.

Statutory Authority: MS s 45.023; 61A.25

History: 24 SR 800

2747.0020 DEFINITIONS.

Subpart 1. Scope. For purposes of this chapter, the terms defined in this part have the meanings given them.

Subp. 2. Basic reserves. "Basic reserves" means reserves calculated according to Minnesota Statutes, section 61A.25, subdivision 4.

Subp. 3. Contract segmentation method. "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 in this subpart. All calculations are made using the 1980 CSO valuation tables, as defined in subpart 7, or any other valuation mortality table adopted by the National Association of Insurance Commissioners after January 1, 2000, and adopted by rule by the commissioner for this purpose, and, if elected, the optional minimum mortality standard for deficiency reserves stipulated in part 2747.0030, subpart 2.

The length of a particular contract segment must be set equal to the minimum of the value, 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:

$$R_t = \frac{q_{x+k+t}}{q_{x+k+t-1}}$$
, 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 , are as defined in this subpart; and

$$q_{x+k+t-1}$$
 = valuation mortality rate for deficiency reserves in policy year $_k+_t$ but using the mortality of part 2747.0030, subpart 2, item B, if part 2747.0030, subpart 2, item C, 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 1,000. If GP_{x+k+t} and $GP_{x+k+t-1}$ are both equal to 0, G_t shall be deemed to be 0.
- Subp. 4. **Deficiency reserves.** "Deficiency reserves" means the excess, if greater than zero, of:
- A. minimum reserves calculated according to Minnesota Statutes, section 61A.25, subdivision 7; over
 - B. basic reserves.
- Subp. 5. Guaranteed gross premiums. "Guaranteed gross premiums" means the premiums under a policy of life insurance that are guaranteed and determined at issue.
- Subp. 6. Maximum valuation interest rates. "Maximum valuation interest rates" means the interest rates defined in Minnesota Statutes, section 61A.25, subdivision 3b, that are to be used in determining the minimum standard for the valuation of life insurance policies.
- Subp. 7. 1980 CSO valuation tables. "1980 CSO valuation tables" means the Commissioners 1980 Standard Ordinary Mortality Table (1980 CSO Table) without ten-year selection factors, incorporated into the 1980 amendments to the National Association of Insurance Commissioners Standard Valuation Law, and variations of the 1980 CSO Table approved by the National Association of Insurance Commissioners, such as the smoker and nonsmoker versions approved in December 1983.
- Subp. 8. Scheduled gross premium. "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 part 2747.0050, subpart 1, item C, if any, or else the minimum premium described in part 2747.0050, subpart 1, item D.
- Subp. 9. Segmented reserves. "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 as in part 2747.0040, subpart 4, 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 the subitem (1) over subitem (2), as follows:
- (1) 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 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 must not exceed the net level annual premium on the 19-year premium whole life plan of insurance of the same renewal year equivalent level amount at an age one year higher than the age at issue of the policy;
- (2) a net one-year term premium for the benefits provided for in the first policy year.

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

2747.0020 VALUATION OF LIFE INSURANCE POLICIES

The interest rates used in the present value calculations for a 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.

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.

- Subp. 10. **Tabular cost of insurance.** "Tabular cost of insurance" means the net single premium at the beginning of a policy year for one-year term insurance in the amount of the guaranteed death benefit in that policy year.
- Subp. 11. **Ten-year select factors.** "Ten-year select factors" means the select factors adopted with the 1980 amendments to the National Association of Insurance Commissioners Standard Valuation Law.
- Subp. 12. Unitary reserves. "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 subitem (1) over subitem (2), as follows:
- (1) 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 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 19-year premium whole life plan of insurance of the same renewal year equivalent level amount at an age one year higher than the age at issue of the policy;
- (2) a net one-year term premium for the benefits provided for in the first policy year.

The interest rates used in the present value calculations for a 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.

Subp. 13. Universal life insurance policy. "Universal life insurance policy" means an 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.

Statutory Authority: *MS s* 45.023; 61A.25

History: 24 SR 800

2747.0030 GENERAL CALCULATION REQUIREMENTS FOR BASIC RESERVES AND PREMIUM DEFICIENCY RESERVES.

Subpart 1. Basic reserves. 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 National Association of Insurance Commissioners after January 1, 2000, and adopted by rule by the commissioner for this purpose. If select mortality factors are elected, they may be:

A. the ten-year select mortality factors incorporated into the 1980 amendments to the National Association of Insurance Commissioners Standard Valuation Law;

B. the select mortality factors in part 2747.0060; or

- C. any other table of select mortality factors adopted by the National Association of Insurance Commissioners after January 1, 2000, and adopted by rule by the commissioner for the purpose of calculating basic reserves.
- Subp. 2. **Deficiency reserves.** 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 National Association of Insurance Commissioners after January 1, 2000, and adopted by rule by the commissioner. If select mortality factors are elected, they may be:
- A. the ten-year select mortality factors incorporated into the 1980 amendments to the National Association of Insurance Commissioners Standard Valuation Law;
 - B. the select mortality factors in part 2747.0060;
- C. for durations in the first segment, X percent of the select mortality factors in part 2747.0060, subject to the following:
- (1) X may vary by policy year, policy form, underwriting classification, issue age, or any other policy factor expected to affect mortality experience;
 - (2) X shall not be less than 20 percent;
 - (3) X shall not decrease in any successive policy years;
- (4) X is such that, when using the valuation interest rate used for basic reserves, unit (a) is greater than or equal to unit (b):
- (a) the actuarial present value of future death benefits, calculated using the mortality rates resulting from the application of X; and
- (b) the actuarial present value of future death benefits calculated using anticipated mortality experience without recognition of mortality improvement beyond the valuation date;
- (5) 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 years after the valuation date;
- (6) the appointed actuary shall increase X at any valuation date where it is necessary to continue to meet all the requirements of item C;
- (7) 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 item C;
- (8) 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
- (9) if X is less than 100 percent at any duration for any policy, the following requirements shall be met:
- (a) the appointed actuary shall annually prepare an actuarial opinion and memorandum for the company in conformance with part 2711.0080; and
- (b) the appointed actuary shall annually give an opinion for all policies subject to this chapter as to whether the mortality rates resulting from the application of X meet the requirements of item C. 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

2747.0030 VALUATION OF LIFE INSURANCE POLICIES

improvement beyond the valuation date, taking into account relevant emerging experience; or

- D. any other table of select mortality factors adopted by the National Association of Insurance Commissioners after January 1, 2000, and adopted by rule by the commissioner for the purpose of calculating deficiency reserves.
- Subp. 3. Use of select mortality factors. This subpart 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 years, the appropriate tenyear select mortality factors incorporated into the 1980 amendments to the National Association of Insurance Commissioners Standard Valuation Law may be used thereafter through the tenth policy year from the date of issue.
- Subp. 4. Gross premiums and policy fees. 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.
- Subp. 5. Reserves for changed policies. 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 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.
- Subp. 6. **Documentation.** The commissioner 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 January 1, 2000. This documentation may include a demonstration of the extent to which aggregation with other nonspecified blocks of business is relied upon in the formation of the appointed actuary opinion pursuant to and consistent with part 2711.0080.

Statutory Authority: MS s 45.023; 61A.25

History: 24 SR 800

2747.0040 CALCULATION OF MINIMUM VALUATION STANDARD FOR POLICIES WITH GUARANTEED NONLEVEL GROSS PREMIUMS OR GUARANTEED NONLEVEL BENEFITS OTHER THAN UNIVERSAL LIFE POLICIES.

Subpart 1. Basic reserves. Basic reserves are calculated as the greater of the segmented reserves and the unitary reserves. Both the segmented reserves and the unitary reserves for a 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 items A and B may be made:

A. 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; or

B. 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.

Subp. 2. Deficiency reserves.

A. The deficiency reserve at any duration is calculated on:

- (1) a unitary basis if the corresponding basic reserve determined by subpart 1 is unitary;
- (2) a segmented basis if the corresponding basic reserve determined by subpart 1 is segmented; or
- (3) the segmented basis if the corresponding basic reserve determined by subpart 1 is equal to both the segmented reserve and the unitary reserve.
- B. This subpart applies to a 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 part 2747.0030, subpart 2, and rate of interest.
- C. Deficiency reserves, if any, are 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 quantity A is obtained as indicated in part 2747.0030, subpart 2.
- D. For deficiency reserves determined on a segmented basis, the quantity A is determined using segment lengths equal to those determined for segmented basic reserves.
- Subp. 3. 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 tenyear select factors incorporated into the 1980 amendments of the National Association of Insurance Commissioners Standard Valuation Law. 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 policyowner would receive, including the cash surrender value of the supplemental benefits, if any, exclusive of any deduction for policy loans, upon termination of the policy.

Subp. 4. Unusual pattern of guaranteed cash surrender values.

- A. For a policy with an unusual pattern of guaranteed cash surrender values, the reserves actually held before the first unusual guaranteed cash surrender value must 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.
- B. The reserves actually held subsequent to any unusual guaranteed cash surrender value must 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:
- (1) n is the number of years from the date of the last unusual guaranteed cash surrender value before the valuation date to the earlier of:
- (a) the date of the next unusual guaranteed cash surrender value, if any, that is scheduled after the valuation date; or
 - (b) the mandatory expiration date of the policy;
- (2) 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
- (3) the net to gross ratio is equal to unit (a) divided by unit (b) as follows:
- (a) 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;

- (b) the present value, at the beginning of the n-year period, of the scheduled gross premiums payable during the n-year period.
- C. For purposes of this subpart, 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:
 - (1) 110 percent of the scheduled gross premium for that year;
- (2) 110 percent of one 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
 - (3) five percent of the first policy year surrender charge, if any.
- Subp. 5. Optional exemption for yearly renewable term reinsurance. At the option of the company, the following approach for reserves on yearly renewable term reinsurance may be used:
- A. Calculate the valuation net premium for each future policy year as the tabular cost of insurance for that future year.
- B. Basic reserves shall never be less than the tabular cost of insurance for the appropriate period, as defined in subpart 3.
 - C. Deficiency reserves.
- (1) For each policy year, calculate the excess, if greater than zero, of the valuation net premium over the respective maximum guaranteed gross premium.
- (2) 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 subitem (1).
- D. For purposes of this subpart, the calculations use the maximum valuation interest rate and the 1980 CSO mortality tables with or without ten-year select mortality factors, or any other table adopted after January 1, 2000, by the National Association of Insurance Commissioners and adopted by rule by the commissioner for this purpose.
- E. A reinsurance agreement shall be considered yearly renewable term reinsurance for purposes of this subpart if only the mortality risk is reinsured.
- F. 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.
- Subp. 6. 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 yearly renewable term life insurance policies may be used:
- A. Calculate the valuation net premium for each future policy year as the tabular cost of insurance for that future year.
- B. Basic reserves shall never be less than the tabular cost of insurance for the appropriate period, as defined in subpart 3.
 - C. Deficiency reserves.
- (1) For each policy year, calculate the excess, if greater than zero, of the valuation net premium over the respective maximum guaranteed gross premium.
- (2) 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 subitem (1).
- D. For purposes of this subpart, the calculations use the maximum valuation interest rate and the 1980 CSO valuation tables with or without ten-year select mortality factors, or any other table adopted after January 1, 2000, by the National

Association of Insurance Commissioners and adopted by rule by the commissioner for this purpose.

- E. A policy shall be considered an attained-age-based yearly renewable term life insurance policy for purposes of this subpart if:
- (1) 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
- (2) 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 insureds of the same sex, risk class, plan of insurance, and attained age.
- F. For policies that become attained-age-based yearly renewable term policies after an initial period of coverage, the approach of this subpart may be used after the initial period if:
- (1) the initial period is constant for all insureds of the same sex, risk class, and plan of insurance; or
- (2) the initial period runs to a common attained age for all insureds of the same sex, risk class, and plan of insurance; and
- (3) after the initial period of coverage, the policy meets the conditions of item E.
- G. If this election is made, this approach shall be applied in determining reserves for all attained-age-based yearly renewable term life insurance policies issued on or after January 1, 2000.
- Subp. 7. Exemption from 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:
- A. 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 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;
- B. 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-year select mortality factors; and
 - C. there are no cash surrender values in any policy year.
- Subp. 8. 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:
 - A. at issue, the insured is age 24 or younger;
- B. until the insured reaches the end of the juvenile period, which shall occur at or before age 25, the gross premiums and death benefits are level, and there are no cash surrender values; and
- C. 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.

Statutory Authority: MS s 45.023; 61A.25

History: 24 SR 800

2747.0050 MINIMUM VALUATION STANDARD FOR CERTAIN FLEXIBLE PRE-MIUM AND FIXED PREMIUM UNIVERSAL LIFE INSURANCE POLI-CIES; SECONDARY GUARANTEE PERIOD POLICIES.

Subpart 1. General.

A. Policies with a secondary guarantee include:

2747.0050 VALUATION OF LIFE INSURANCE POLICIES

- (1) 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;
- (2) a policy in which the minimum premium at any duration is less than the corresponding one-year valuation premium, calculated using the maximum valuation interest rate and the 1980 CSO valuation tables with or without ten-year select mortality factors, or any other table adopted after January 1, 2000, by the National Association of Insurance Commissioners and adopted by rule by the commissioner for this purpose; or
 - (3) a policy with any combination of subitems (1) and (2).
- B. 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 must be considered to have been made at issue. Reserves described in subparts 2 and 3 shall be recalculated from issue to reflect these changes.
- C. 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.
- D. For purposes of this part, the minimum premium for a 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.
- E. The one-year valuation premium means the net one-year premium based upon the original schedule of benefits for a given policy year. The one-year valuation premiums for all policy years are calculated at issue. The select mortality factors defined in part 2747.0030, subpart 2, items B to D, may not be used to calculate the one-year valuation premiums.
- F. The one-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.
- Subp. 2. Basic reserves for secondary guarantees. Basic reserves for the secondary guarantees must 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 part 2747.0020, subpart 3.
- Subp. 3. **Deficiency reserves for 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 part 2747.0040, subpart 2, with gross premiums set equal to the specified premiums, if any, or otherwise to the minimum premiums that keep the policy in force.
- Subp. 4. **Minimum reserves.** The minimum reserves during the secondary guarantee period are the greater of:
- A. the basic reserves for the secondary guarantee plus the deficiency reserve, if any, for the secondary guarantees; or

VALUATION OF LIFE INSURANCE POLICIES 2747,0060

B. the minimum reserves required by other rules or regulations governing universal life plans.

Statutory Authority: MS s 45.023; 61A.25

History: 24 SR 800

2747.0060 SELECT MORTALITY FACTORS.

Subpart 1. Generally. The tables of select mortality factors contained in subparts 2 to 7 include: (1) male aggregate; (2) male nonsmokers; (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 80 percent of the appropriate male table in this part, plus 20 percent of the appropriate female table in this part.

Subp. 2. Male, aggregate.

ISSUE				DURA	TION			100 100 100 90 79 67 66 64 63 61 60 61 61 62 62 63					
AGE	1	2	3	4	5	6	7	8					
0- 15	100	100	100	100	100	100	100	100					
16 17 18 19 20	100 100 96 83 69	100 100 98 84 71	100 100 98 84 71	100 100 99 87 74	100 100 99 87 74	100 100 100 87 69	100 100 100 79 69	100 90 79					
21 22 23 24 25	66 65 62 60 52	68 66 63 56 53	69 66 59 56 55	71 63 60 59 56	66 63 62 59 58	66 64 62 60 58	67 64 63 61 60	64 63 61					
26 27 28 29 30	51 51 49 49 49	52 52 51 51 50	55 55 56 56 56	56 57 58 58 58	58 58 60 60	58 60 60 61 60	57 61 61 62 62	61 62 62					
31 32 33 34 35	47 46 43 42 40	50 49 49 47 47	56 56 56 56 56	58 59 59 60	60 60 62 62 63	62 62 63 63 61	63 63 64 61 62	64 66 62 63 65					
36 37 38 39 40	38 38 37 37 34	42 45 44 41 40	56 56 53 53 53	60 57 58 58 58	59 61 61 62 62	61 62 62 63 63	63 63 65 65 65	65 65 66 65 65					
41 42	34 34	41 43	53 53	58 58	62 61	63 62	65 63	64 63					

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0- 15	ISSUE AGE	81 82 83 84 85	76 77 78 79 80	71 72 73 74 75	66 67 68 69 70	26 26 26 26 26 26 26 26 26 26 26 26 26 2	56 57 58 59	51 52 53 54 55	46 47 48 49 50	43 44 45
100	9	48 48 48 48 100	48 48 48 48 48 48 48 48 48 48 48 48 48 4	48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	£23222	22223	25 24 23 23	28 28 27 27 25	31 32 32 30 30	34 34
100	10	52 52 52 100 100	52 52 52 52 52 52	52 52 52 52 52 52	30 30 32 52 52	30 30 30	32 31 31 30 30	37 35 33 33	43 42 41 40 38	43 44 45
100	11	55 55 100 100 100	55 55 55 55	55 55 55 55	39 55 55	39 39 39 39	37 38 38 39	42 41 39 38 37	52 50 47 46 44	54 54 53
100	DURATION 12 13	60 100 100 100 100	60	60 60 60	60 60 60	45 45 45 45 45 45	43 43 43	44 44 44 43	56 53 52 49 47	59 58 58
100	TION 13	100 100 100 100	60 60 60	60 60	60 60 60	49 49 50 50	47 47 48 48 48	49 48 48 47	57 55 54 52 51	60 59 59
100	14	100 100 100 100	65 65 65 100	88888	88888	49 49 50 51 65	49 48 48 47	53 51 51 50 50	58 56 54 53	61 60
100	15	100 100 100 100	70 70 70 100	70 70 70	70 70 70	50 51 52 75 70	51 50 50 50	54 53 53	59 57 57 55 54	63 61 60
100	16	100 100 100 100 100	70 70 100 100	70 70 70	70 70 70 70	52 52 75 75 70	54 54 53 53	56 55 55 55	59 58 57 56	66 60 60 60

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

477

VALUATION OF LIFE INSURANCE POLICIES 2747.0060

16	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100
18	92	92	92	92	93	93	96	97
19	79	81	81	82	82	82	85	88
20	69	70	71	71	71	71	74	79
21	67	70	70	70	70	71	71	77
22	65	68	68	68	68	69	71	77
23	64	65	65	67	67	69	70	76
24	61	64	64	64	66	67	70	76
25	60	63	62	63	64	67	69	75
26	61	62	63	64	66	69	66	73
27	60	63	63	64	67	66	67	74
28	62	63	64	66	65	66	68	74
29	62	64	64	62	66	67	70	76
30	63	64	62	63	67	68	71	77
31	64	62	63	66	68	70	72	78
32	62	63	66	67	70	72	73	78
33	65	66	67	70	72	73	75	80
34	66	67	70	71	73	75	76	81
35	67	68	71	73	74	76	76	81
36 37 38 39 40	67 67 67 66 66	68 68 69 68	70 70 69 69 68	72 72 73 72 71	74 74 75 74 75	76 76 76 76 76	77 76 77 76 77	82 81 82 81 82
41	64	66	68	70	74	76	77	82
42	63	64	66	69	72	75	77	82
43	62	64	66	67	72	74	77	82
44	61	62	64	67	71	74	77	82
45	59	60	63	66	71	74	77	82
46	59	60	63	67	71	74	75	80
47	59	60	65	68	71	74	75	80
48	57	61	65	68	72	73	74	79
49	57	61	66	69	72	73	74	79
50	57	61	66	71	72	73	75	80
51 52 53 54 55	57 57 57 57 57	61 61 61 61	66 66 67 67 68	71 71 71 72 72	72 72 74 74 74	73 74 75 75 75	75 75 76 76 78	80 80 81 81 100
56	56	61	67	70	73	74	100	100
57	56	59	66	69	72	100	100	100
58	56	59	64	67	100	100	100	100
59	55	58	63	100	100	100	100	100
60	53	57	100	100	100	100	100	100
61	53	75	100	100	100	100	100	100
62	75	75	100	100	100	100	100	100
63	75	75	100	100	100	100	100	100

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2747 0060	VALUATION	OF LIFE	INSURANCE	POLICIES
£/4/.0000	VALUATION		THOOTENICE	I ODICIDO

27 1710000	******						•	
64	75	75	100	100	100	100	100	100
65	70	70	100	100	100	100	100	100
66	70	70	100	100	100	100	100	100
67	70	70	100	100	. 100	100	100	100
68	70	70	100	100	100	100	100	100
69	70	70	100	100	100	100	100	100
70	70	70	100	100	100	100	100	100
71	70	70	100	100	100	100	100	100
72	70	70	100	100	100	100	100	100
73	70	70	100	100	100	100	100	100
74	70	70	100	100	100	100	100	100
75	70	70	100	100	100	100	100	100
76	70	100	100	100	100	100	100	100
77	100	100	100	100	100	100	100	100
78	100	100	100	100	100	100	100	100
79	100	100	100	100	100	100	100	100
80	100	100	100	100	100	100	100	100
81	100	100	100	100	100	100	100	100
82	100	100	100	100	100	100	100	100
83	100	100	100	100	100	100	100	100
84	100	100	100	100	100	100	100	100
85+	100	100	100	100	100	100	100	100
ISSUE		DU!	RATION	Ī				
AGE								
	17	18	19	20+				
0-								
15	100	100	100	100				
16	100	100	100	100				
17	100	100	100	100				
18	98	98	99	100				
19	91	94	97	100				
20	84	90	95	100				
21	83	88	94	100				
22	83	88	94	100				
23	82	88	94	100				
24	82	88	94	100				
25	81	88	94	100				
26	80	86	93	100				
27	80	87	93	100				
28	81	87	94	100				

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100

30

33

479		V	ALUATION	OF	LIFE	INSURANCE	POLICIES	2747.0060
36	86	91	95	100				
37	86	90	95	100				
38	86	91	95	100				
39	86	90	95	100				
40	86	91	95	100				
41	86	91	95	100				
42	86	91	95	100				
43	86	91	95	100				
44 45	86 86	91 91	95 95	100 100				
46	85	90	95	100				
47	85	90	95	100				
48	84	90	95	100				
49 50	84	90	95 95	100				
50	85	90	95	100				
51	85	90	95	100				
52	85	90	100	100				
53	86	100	100	100				
54	100	100	100	100				
55	100	100	100	100				
56	100	100	100	100				
57	100	100	100	100				
58	100	100	100	100				
59	100	100	100	100				
60	100	100	100	100				
61	100	100	100	100				
62	100	100	100	100				
63	100	100	100	100				
64	100	100	100	100				
65	100	100	100	100				
66	100	100	100	100				
67	100	100	100	100				
68	100	100	100	100				
69	100	100	100	100				
70	100	1.00	100	100				
71	100	100	100	100				
72	100	100	100	100				
73	100	100	100	100				
74	100	100	100	100				
75	100	100	100	100				
76	100	100	100	100				
<i>7</i> 7	100	100	100	100				
78	100	100		100				
79	100	100		100				
80	100	100		100				
81	100	100	100	100				
82	100	100		100				
83	100	100		100				
84	100	100		100				
85+	100	100		100				

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

Subp. 3. Male, nonsmoker.

ISSUE				TION	ION				
AGE	1	2	3	4	5	6	7	8	
0- 15	100	100	100	100	100	100	100	100	
16	100	100	100	100	100	100	100	100	
17	100	100	100	100	100	100	100	100	
18	93	95	96	98	99	100	100	90	
19	80	81	83	86	87	87	79	79	
20	65	68	69	72	74	69	69	67	
21	63	66	68	71	66	66	67	66	
22	62	65	66	62	63	64	64	64	
23	60	62	58	60	62	62	63	63	
24	59	55	56	58	59	60 50	61	61	
25	52	53	55	56	58	58	60	60	
26	51	53	55	56	58	60	61	61	
27	51	52	55	58	60	60	61	61	
28	49	52	57	58	60	61	63	62	
29	49	51	57	60	61	61	62	62	
30	49	51	57	60	61	62	63	63	
31	47	50	57	60	60	62	63	64	
32	46	50	57	60	62	63	64	64	
33	45	49	56	60	62	63	64	62	
34	43	48	56	62	63	64	62	62	
35	41	47	56	62	63	61	62	63	
36	40	47	56	62	59	61	62	63	
37	38	45	56	58	59	61	62	63	
38	38	45	53	58	61	62	63	65	
39	37	41	53	58	61	62	63	64	
40	34	41	53	58	61	62	63	64	
41	34	41	53	58	61	61	62	62	
42	34	43	53	58	60	61	62	61	
43	32	43	53	58	60	61	60	60	
44	32	44	52 52	57	59	60	60 50	59	
45	32	44	52	57	59	60	59	57	
46	32	42	50	54	56	57	57	56	
47	30	40	48	52	54	55	55	54	
48	30	40	46	49	51	52	53	53	
49 50	29	39	43	48	50	51	50	51	
50	29	37	42	45	47	48	49	50	
51	27	35	40	43	45	47	48	50	
52	27	34	39	42	44	45	48	49	
53	25	31	37	41	44	45	47	49	

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481		VA	LUATION	OF I	LIFE I	NSURANCI	E POLICIES	2747.0060
54 55	25 24	30 29	36 35	39 38		3 44 2 43	47 45	48 48
56 57 58 59 60	23 23 22 22 22 20	29 28 28 26 26	35 35 33 33 33	38 38 37 37 37	4		44 43 43 42 41	47 45 45 44 42
61 62 63 64 65	20 19 19 18 18	26 25 25 24 24	33 32 33 32 32	37 38 36 36 36	4 4 3	1 40 0 40 0 40 9 40 9 65	41 41 41 75 70	42 42 75 75 70
66 67 68 69 70	18 18 18 18 48	24 24 24 52 52	32 32 55 55 55	36 60 60 60	6 6 6	0 65 0 65 0 65 0 65 0 65	70 70 70 70 70	70 70 70 70 70
71 72 73 74 75	48 48 48 48	52 52 52 52 52 52	55 55 55 55 55	60 60 60 60	6 6 6	0 65 0 65 0 65 0 65 0 65	70 70 70 70 70	70 70 70 70 70
76 77 78 79 80	48 48 48 48 48	52 52 52 52 52 52	55 55 55 55 55	60 60 60 60	6 6 6	0 65 0 65 0 65 0 65 0 65 0 100	70 70 70 100 100	70 70 100 100 100
81 82 83 84 85 +	48 48 48 48 100	52 52 52 100 100	55 55 100 100 100	60 100 100 100 100	10 10 10 10 10	0 100 0 100 0 100	100 100 100 100 100	100 100 100 100 100
ISSUE AGE	9	10	11	DUR	RATIOI	N 3 14	15	16
0- 15	100	100	100	100	10		100	100
16 17 18 19 20	100 100 92 79 69	100 100 92 81 70	100 100 92 81 71	100 100 92 82 71		0 100	100 100 96 86 75	100 100 97 89 80
21 22 23 24 25	67 67 64 63 61	70 68 67 65 64	70 68 68 67 64	70 68 68 66 64	6 6	0 70	73 73 71 71 70	78 78 77 77 76

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

26	61	63	64	64	66	69	67	74
27	62	63	64	66	67	66	67	74
28	62	64	66	66	63	66	68	74
29	63	64	66	63	65	67	68	74
30	63	64	62	63	66	68	70	76
31	64	62	63	65	67	70	71	77
32	62	63	65	66	68	71	72	78
33	63	65	66	68	71	73	74	79
34	65	66	67	70	72	74	74	79
35	66	67	68	70	72	74	75	80
36	66	67	68	70	72	74	75	80
37	66	67	67	69	71	73	74	79
38	65	67	68	70	72	74	73	78
39	65	67	68	70	71	73	73	78
40	64	66	67	69	71	73	72	78
41	63	65	65	67	69	71	71	77
42	61	63	64	66	67	69	71	77
43	60	60	62	64	66	68	69	75
44	59	58	60	62	65	67	69	75
45	57	57	59	61	63	66	68	74
46 47 48 49 50	55 54 54 53 51	56 55 55 54 54	59 59 57 57 57	61 61 61 61	63 62 62 61 61	65 63 63 62 61	67 66 63 62 61	74 73 70 70 69
51 52 53 54 55	51 50 50 49 49	53 53 51 51 50	57 56 56 55 56	60 60 59 59 58	61 60 61 59 59	61 62 61 61 61	62 62 62 62 62	70 70 70 70 70 100
56	48	50	55	57	58	59	100	100
57	47	49	53	55	56	100	100	100
58	45	47	51	53	100	100	100	100
59	44	46	50	100	100	100	100	100
60	42	45	100	100	100	100	100	100
61 62 63 64 65	42 75 75 75 75 70	75 75 75 75 70	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100
66 67 68 69 70	70 70 70 70 70 70	70 70 70 70 70	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100	100 100 100 100 100
71	70	70	100	100	100	100	100	100
72	70	70	100	100	100	100	100	100
73	70	70	100	100	100	100	100	100
74	70	70	100	100	100	100	100	100

483		VA	LUATIO	N OF	LIFE INS	URANCE	POLICIES	2747.0060
75	70	70	100	100	100	100	100	100
76 77 78 79 80	70 100 100 100 100	100 100 100 100 100						
81 82 83 84 85+	100 100 100 100 100							
ISSUE AGE		DUF	RATION					
NOL	17	18	19	20+				
0- 15	100 .	100	100	100				
16 17 18 19 20	100 100 98 92 85	100 100 98 94 90	100 100 99 97 95	100 100 100 100 100				
21 22 23 24 25	84 84 83 83 82	89 89 88 88	95 95 94 94 94	100 100 100 100 100				
26 27 28 29 30	80 80 81 81 82	87 87 87 87 88	93 93 94 94 94	100 100 100 100 100				
31 32 33 34 35	83 83 84 84 85	88 89 90 90	94 94 95 95 95	100 100 100 100 100				
36 37 38 39 40	85 84 84 84 83	90 90 89 89	95 95 95 95 94	100 100 100 100 100				
41 42 43 44 45	83 83 81 81 81	88 88 88 88	94 94 94 94 94	100 100 100 100 100				
46	80	87	93	100				

2747.0060	VALU	JATION	OF LIFE	INSURA	NCE POL	ICIES		4	184
47	80	86	93	100					
48	78	85	93	100					
49	77	85	92	100					
50	77	84	92	100					
51	77	85	92	100					
52	77	85	100	100					
53	77	100	100	100					
54 55	100	100	100	100					
55	100	100	100	100					
56	100	100	100	100					
57 50	100	100	100	100 100					
58 50	100	100 100	100 100	100					
59 60	100 100	100	100	100					
61	100	100	100	100					
62	100	100	100 100	100					
63 64	100 100	100 100	100	100 100			•		
65	100	100	100	100					
05									
66	100	100	100	100					
67	100	100	100	100					
68 69	100 100	100 100	100 100	100 100					
70	100	100	100	100					
7.1	100	100	100	100					
71 72	100 100	100 100	100 100	100 100					
73	100	100	100	100					
73 74	100	100	100	100					
75	100	100	100	100					
76	100	100	100	100					
77 77	100	100	100	100					
78	100	100	100	100					
79	100	100	100	100					
80	100	100	100	100					
81	100	100	100	100					
82	100	100	100	100					
83	100	100	100	100					
84	100	100	100	100					
85+	100	100	100	100					
C -1-	A 84-1	a							
Suop.	4. Wal	e, smoke	¢Γ.						
ISSUE				DURA	TION				
AGE	1	2	3	4	5	6	7	8	

0-

485		VA	ALUATION	OF	LIFE INS	URANCE	POLICIES	2747.0060
16	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100
18	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100
20	98	100	100	100	100	100	100	99
21	95	98	99	100	95	96	96	95
22	92	95	96	90	90	93	93	92
23	90	92	85	88	88	89	89	89
24	87	81	82	85	84	86	88	86
25	77	78	79	82	81	83	83	82
26 27 28 29 30	75 73 71 69 68	77 75 73 72 71	79 78 79 78 78	82 82 82 81 81	82 82 81 81	83 83 82 82 81	83 83 83 82 82	82 82 81 81
31	65	70	77	81	79	81	82	81
32	63	67	77	78	79	81	81	81
33	60	65	74	78	79	79	81	76
34	57	62	74	77	79	79	75	76
35	53	60	73	77	79	75	75	76
36	52	59	71	75	74	75	75	76
37	49	58	70	71	74	74	75	76
38	48	55	66	70	72	74	74	75
39	45	50	65	70	72	72	74	74
40	41	49	63	68	71	72	73	74
41	40	49	63	68	71	72	72	72
42	40	49	62	68	70	71	71	71
43	39	50	62	67	69	69	70	70
44	39	50	60	66	68	69	68	69
45	37	50	60	66	68	68	68	67
46	37	48	58	63	65	67	66	66
47	36	47	55	61	63	64	64	64
48	35	46	53	58	60	62	63	63
49	34	45	51	56	58	59	61	62
50	34	43	49	53	55	57	60	61
51	32	42	47	52	55	57	60	61
52	32	40	46	50	54	56	60	61
53	30	37	44	49	54	56	59	61
54	30	36	43	48	53	55	59	61
55	29	35	42	47	53	55	59	61
56	28	35	42	47	53	55	57	60
57	28	35	42	47	53	54	57	60
58	26	33	43	48	54	54	56	59
59	26	33	43	48	54	53	57	59
60	25	33	43	48	54	53	56	58
61	25	33	43	49	55	55	57	59
62	25	33	43	50	56	56	58	61
63	24	33	45	51	56	56	59	75
64	24	34	45	51	57	57	75	75

2747 0060 VALUATION OF LIFE INSURANCE POLICIES

2747.0060	VALU	ATION OF	LIFE	INSURAN	ICE POI	LICIES		
65	24	34	45	52	57	65	70	70
						<i>e</i> #	70	70
66	24	35	45	53	60	65	70	70
67	25	35	45	60	60	65	70	70
68	25	36	55	60	60	65	70	70
69	27	52	55	60	60	65	70	70
70	48	52	55	60	60	65	70	70
,0	.0	02	00					
71	48	52	55	60	60	65	70	70
72	48	52	55	60	60	65	70	70
73	48	52	55	60	60	65	70	70
		52	55	60	60	65	70	70
74 75	48			60	60	65	70 70	70 70
75	48	52	55	θŪ	00	05	70	70
76	48	52	55	60	60	65	70	70
					60	65	70 70	70
<i>77</i>	48	52	55	60		65	70 70	100
78	48	52	55	60	60			
79	48	52	55	60	60	65	100	100
80	48	52	55	60	60	100	100	100
					100	100	100	100
81	48	52	55	60	100	100	100	100
82	48	52	55	100	100	100	100	100
83	48	52	100	100	100	100	100	100
84	48	100	100	100	100	100	100	100
85+	100	100	100	100	100	100	100	100
ISSUE				DURA	TION			
AGE								
	9	10	11	12	13	14	15	16
0-							400	400
15	100	100	100	100	100	100	100	100
		400	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100
18	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100
20	99	99	100	99	99	99	100	100
21	96	97	97	96	96	96	96	97
22	93	95	95	93	93	92	93	94
23	90	90	90	90	89	90	92	94
24	86	88	88	86	86	88	89	91
25	83	85	84	84	84	85	86	89
23	05	0.5	0.	0.				
26	83	84	84	84	84	85	81	85
27	82	82	82	84	84	80	81	85
28	81	82	82	82	80	80	81	85
29	81	81	81	77	80	80	81	85
			76	77	80	80	81	85
30	81	81	70	//	00	00	01	05
31	81	76	77	79	81	81	83	86
		70 77	77	80	83	83	85	88
32	76				83	85	85 85	88
33	77	<i>77</i>	79 70	80				90
34	77	79	79	81	83	85	87	
35	77	79	80	82	84	86	88	90
0.1		70	70	Ω1	83	85	87	90
36	77	79	79	81	83	83	0/	90

487		V	ALUATION	OF	LIFE	INS	URANCE	POLICIES	2747.0060
37	77	78	79	81		84	86	86	89
38	76	78	79	81		83	85	87	90
39	75	77	79	81		84	86	86	89
40	74	76	78	-80		83	85	86	89
41	73	75 73	76	78		81	84	85	88
42	71 70	73	75 72	76		81	83	85	88
43	70 60	71	73	76		79 70	83	85	88
44 45	69	69	71	74		79 70	81	85	88
45	67	67	69	73		78	81	85	88
46	66	67	71	74		78	81	84	87
47	65	67	71	75		79	81	84	87
48	65	67	72	75		79	81	83	86
49	63	67	72	77		80	81	83	86
50	63	67	73	78		80	81	81	85
51	63	67	73	78		80	83	84	87
52	63	67	73	78		81	84	85	88
53	65	67	74	79		83	85	87	90
54	65	67	74	80		84	85	89	91
55	65	67	75	80		84	86	90	100
56	63	68	74	79		83	85	100	100
57	64	67	74	78		81	100	100	100
58	63	67	73	78	1	00	100	100	100
59	63	66	73	100	1	00	100	100	100
60	62	66	100	100	1	00	100	100	100
61	63	75	100	100		00	100	100	100
62	75	75	100	100		00	100	100	100
63	75	75	100	100		00	100	100	100
64	75	75	100	100		00	100	100	100
65	70	70	100	100	10	00	100	100	100
66	70	70	100	100	16	00	100	100	100
67	70	70	100	100	10	00	100	100	100
68	70	70	100	100	10	00	100	100	100
69	70	70	100	100		00	100	100	100
70	70	70	100	100	10	00	100	100	100
71	70	70	100	100	10	00	100	100	100
72	70	70	100	100		00	100	100	100
73	70	70	100	100		00	100	100	100
74	70	70		100		00	100	100	100
75	70	70	100	100		00	100	1.00	100
76	70	100		100		00	100	100	100
77	100	100		100		00	100		100
78	100	100		100		00	100		100
79	100	100		100		00	100		100
80	100	100	100	100	10	00	100	100	100
81	100	100		100		00	100	100	100
82	100	100		100		00	100		100
83	100	100		100	10		100		100
84	100	100		100	10		100		100
85+	100	100	100	100	10	00	100	100	100

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

ISSUE		DUI	RATION	
AGE	17	18	19	20+
0- 15	100	100	100	100
16	100	100	100	100
17	100	100	100	100
18	100	100	100	100
19	100	100	100	100
20	100	100	100	100
21	98	98	99	100
22	96	97	99	100
23	95	97	98	100
24	93	96	98	100
25	92	94	97	100
26	89	92	96	100
27	89	92	96	100
28	89	92	96	100
29	89	92	96	100
30	89	92	96	100
31	90	93	97	100
32	91	94	97	100
33	91	94	97	100
34	92	95	97	100
35	93	95	98	100
36	92	95	97	100
37	92	94	97	100
38	92	95	97	100
39	92	94	97	100
40	92	94	97	100
41	91	94	97	100
42	91	94	97	100
43	91	94	97	100
44	91	94	97	100
45	91	94	97	100
46	90	94	97	100
47	90	94	97	100
48	90	93	97	100
49	90	93	97	100
50	89	92	96	100
51	90	94	97	100
52	91	94	100	100
53	92	100	100	100
54	100	100	100	100
55	100	100	100	100
56	100	100	100	100
57	100	100	100	100

489	VALUATION	OF	LIFE	INSURANCE	POLICIES	2747.0060

58	100	100	100	100
59	100	100	100	100
60	100	100	100	100
61	100	100	100	100
62	100	100	100	100
63	100	100	100	100
64	100	100	100	100
65	100	100	100	100
66	100	100	100	100
67	100	100	100	100
68	100	100	100	100
69	100	100	100	100
70	100	100	100	100
71	100	100	100	100
72	100	100	100	100
73	100	100	100	100
74	100	100	100	100
75	100	100	100	100
76	100	100	100	100
77	100	100	100	100
78	100	100	100	100
79	100	100	100	100
80	100	100	100	100
81	100	100	100	100
82	100	100	100	100
83	100	100	100	100
84	100	100	100	100
85+	100	100	100	100

Subp. 5. Female, aggregate.

ISSUE AGE				DURA	TION			
AGE	1	2	3	4	5	6	7	8
0-								
15	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100
17	99	100	100	100	100	100	100	100
18	83	83	84	84	84	84	86	78
19	65	66	68	68	68	68	63	63
20	48	50	51	51	51	47	48	48
21	47	48	50	51	47	47	48	49
22	44	47	48	45	47	47	48	49
23	42	45	44	45	47	47	49	51
24	39	40	42	44	47	47	50	51
25	34	38	41	44	47	47	50	53
26	34	38	41	45	49	49	51	56

2747.0060	VALUA	ATION O	F LIFE	INSURA	NCE POI	LICIES		
27	34	38	41	47	50	51	54	57
28	34	37	43	47	53	53	56	59
29	34	38	43	49	54	56	58	60
30	35	38	43	50	56	56	59	63
31	35	38	43	51	56	58	60	64
32	35	39	45	51	56	59	63	66
33	36	39	44	52	58	62	64	65
34	36	40	45	52	58	63	63	66
35	36	40	45	53	59	61	65	67
36	36	40	45	53	55	62	65	67
37	36	41	47	52	57	62	65	67
38	34	41	44	52	57	63	66	68
39	34	40	45	53	58	63	66	68
40	32	40	45	53	58	65	65	67
41	32	40	45	53	57	63	64	67
42	32	40	45	52	56	61	63	65
43	31	39	45	51	55	59	61	65
44	31	39	45	50	54	58	61	63
45	31	38	44	49	53	56	59	62
46	29	37	43	48	51	54	59	62
47	28	35	41	46	49	54	57	61
48	28	35	41	44	49	52	57	61
49	26	34	39	43	47	52	55	61
50	25	32	38	41	46	50	55	61
51 52 53 54 55	25 23 23 22 22	32 30 30 29 29	38 36 36 35 35	41 41 41 41	45 45 47 47 47	50 51 51 53 53	55 56 56 57 57	61 61 61 61
56 57 58 59 60	22 22 22 22 22 22	29 29 30 30 30	35 35 36 36 36	41 41 41 41 41	45 45 44 44 43	51 50 49 48 47	56 54 53 51 50	59 56 56 53 51
61	22	29	35	39	42	46	49	50
62	20	28	33	39	41	45	47	49
63	20	28	33	38	41	44	46	80
64	19	27	32	36	40	42	80	80
65	19	25	30	35	39	72	75	75
66 67 68 69 70	19 19 19 19 19	25 25 25 64 60	30 30 68 68 64	35 72 72 72 72 68	72 72 72 72 72 68	72 72 72 72 72 72	75 75 75 75 75	75 75 75 75 75
71 72 73 74 75	60 60 60 60	60 60 60 60	64 64 64 64	68 68 68 68	68 68 68 68	72 72 72 72 72 72	75 75 75 75 75	75 75 75 75 75

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491

VALUATION OF LIFE INSURANCE POLICIES 2747.0060

		•							
76	60	60	64	68	68	72	75	75	
<i>7</i> 7	60	60	64	68	68	72	75	75	
78	60	60	64	68	68	72	75	100	
79	60	60	64	68	68	72	100	100	
80	60	60	64	68	68	100	100	100	
81	60	60	64	68	100	100	100	100	
82	60	60	64	100	100	100	100	100	
83	60	60	100	100	100	100	100	100	
84	60	100	100	100	100	100	100	100	
85 +	100	100	100	100	100	100	100	100	
ISSUE AGE				DURA	TION				
	•	4.0		4.0					

80	60	60	64	68	68	100	100	100
81	60	60	64	68	100	100	100	100
82	60	60	64	100	100	100	100	100
83	60	60	100	100	100	100	100	100
84	60	100	100	100	100	100	100	100
85 +	100	100	100	100	100	100	100	100
ISSUE AGE				DURA	TION			
	9	10	11	12	13	14	15	16
0- 15	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100
17	93	95	96	97	97	100	100	100
18	78	79	82	84	85	88	88	90
19	64	66	69	71	72	74	75	80
20	49	51	56	57	58	61	63	70
21	51	53	57	60	61	64	64	71
22	53	54	60	61	63	64	66	73
23	53	54	61	64	64	67	69	75
24	54	56	64	64	66	69	70	76
25	56	57	64	67	69	71	73	78
26	58	59	66	69	70	73	70	76
27	59	60	69	70	73	70	71	77
28	62	63	70	73	70	72	74	79
29	63	64	73	70	72	74	75	80
30	66	67	70	71	74	75	76	81
31	67	65	71	72	74	75	76	81
32	65	66	72	72	75	76	76	81
33	66	67	72	74	75	76	76	81
34	67	68	74	74	76	76	76	81
35	68	70	75	74	75	76	75	80
36	68	70	74	74	74	75	75	80
37	68	69	72	72	73	75	74	79
38	69	70	72	71	72	74	75	80
39	69	69	70	70	70	73	74	79
40	68	69	70	69	70	73	73	78
41	68	68	69	69	69	73	74	79
42	66	68	69	68	70	74	75	80
43	65	66	68	69	69	74	77	82
44	64	66	67	68	71	75	78	82
45	63	65	67	68	71	77	79	83
46	63	65	67	69	71	77	78	82
47	62	66	68	69	71	77	77	82

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16 17 18 19 20	0- 15	ò	ISSUE	81 82 83 84 85 +	76 77 78 79 80	71 72 73 74 75	66 67 68 69 70	61 62 63 65	56 57 58 59 60	51 52 53 54 55	48 49 50
100 100 93 85 78	100	17	,	100 100 100 100	80 100 100 100 100	80 80 80	80 80 80 80	52 80 80 80	60 58 57 55 53	63 62 61 61	63 63
100 100 95 90 85	100	18	שם	100 100 100 100	100 100 100 100	88 88 88 80 80 80	80 80 80 80	8888888	61 59 57 56 55	61 62 63 63 64 64 65 65	66 67 67
100 100 98 95 93	100	19	DURATION	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	62 61 61 59	\$ \$ \$ \$ \$	69
100 100 100 100	100	20+		100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	63 62 100 100	28888	71 71 72
				100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	64 63 100 100	68 68 64	72 72 72
				100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	67 100 100 100 100	74 73 72 68	75 75
	٠			100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	74 73 72 70 69	77 75 74
				100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	100 100 100 100	79 78 78 76 100	82 80 79

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

VALUATION OF LIFE INSURANCE POLICIES 2747.0060

21	78	86	93	100
22	80	86	93	100
23	81	88	94	100
24	82	88	94	100
25	84	89	95	100
26 27 28 29 30	82 83 84 85 86	88 88 90 90	94 94 95 95 95	100 100 100 100 100
31	86	90	95	100
32	86	90	95	100
33	86	90	95	100
34	86	90	95	100
35	85	90	95	100
36	85	90	95	100
37	84	90	95	100
38	85	90	95	100
39	84	90	95	100
40	84	89	95	100
41	84	90	95	100
42	85	90	95	100
43	86	91	95	100
44	87	91	96	100
45	87	92	96	100
46	87	91	96	100
47	86	91	95	100
48	86	91	95	100
49	85	90	95	100
50	84	90	95	100
51	84	90	95	100
52	84	89	100	100
53	83	100	100	100
54	100	100	100	100
55	100	100	100	100
56	100	100	100	100
57	100	100	100	100
58	100	100	100	100
59	100	100	100	100
60	100	100	100	100
61	100	100	100	100
62	100	100	100	100
63	100	100	100	100
64	100	100	100	100
65	100	100	100	100
66	100	100	100	100
67	100	100	100	100
68	100	100	100	100

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

69	100	100	100	100
70	100	100	100	100
71	100	100	100	100
72	100	100	100	100
73	100	100	100	100
74	100	100	100	100
75	100	100	100	100
76	100	100	100	100
77	100	100	100	100
78	100	100	100	100
79	100	100	100	100
80	100	100	100	100
81	100	100	100	100
82	100	100	100	100
83	100	100	100	100
84	100	100	100	100
85 +	100	100	100	100

Subp. 6. Female, nonsmoker.

ISSUE				DURA	TION			
AGE	1	2	3	4	5	6	7	8
0- 15	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100
17	96	98	98	98	98	99	99	99
18	78	80	80	80	80	81	81	74
19	60	62	63	63	63	65	59	59
20	42	44	45	45	45	42	42	42
21	41	42	44	45	41	42	42	44
22	39	41	44	41	41	42	44	45
23	38	41	38	40	41	42	44	46
24	36	36	38	40	41	42	46	47
25	32	34	37	40	41	43	46	49
26	32	34	37	41	43	45	47	50
27	32	34	38	43	46	47	49	51
28	30	34	39	43	47	49	51	53
29	30	35	40	45	50	51	52	55
30	31	35	40	46	51	52	53	56
31	31	35	40	46	51	53	55	58
32	32	35	40	45	51	53	56	59
33	32	36	41	47	52	55	58	55
34	33	36	41	47	52	55	55	57
35	33	36	41	47	52	55	57	58
36	33	36	41	47	49	53	57	58
37	32	36	41	44	49	53	57	58

495		V A	LUATION	OF L	IFE INSU	RANCE	POLICIES	2747.0060
38 39 40	32 30 28	37 35 35	39 39 39	45 45 45	50 50 50	54 54 54	57 57 56	58 58 57
41 42 43 44 45	28 27 27 26 26	35 35 34 34 33	39 39 39 38 38	45 44 44 42 42	49 49 47 47 45	52 52 50 50 48	55 54 53 52 51	55 55 53 53 51
46 47 48 49 50	24 24 23 23 21	32 30 30 29 27	37 35 35 33 32	40 39 37 35 34	43 42 40 39 37	47 45 44 42 41	47 47 45	51 49 49 48 48
51 52 53 54 55	21 20 19 18 18	26 25 24 24 23	30 30 29 29 28	34 33 32 32 32	37 37 37 37 37	41 41 41 41 41		48 47 47 45 45
56 57 58 59 60	18 18 17 17 17	23 23 23 23 23 23	28 28 26 26 26	32 31 31 30 30	36 35 35 33 32	39 38 36 35 34	42 41 38 38 36	44 42 41 39 38
61 62 63 64 65	17 16 16 14 15	22 22 20 21 19	25 25 24 24 23	29 28 28 27 25	32 30 30 29 28	33 32 32 30 72	35 34 34 80 75	36 35 80 80 75
66 67 68 69 70	15 15 13 13 60	19 19 18 64 60	23 22 68 68 64	25 72 72 72 72 68	72 72 72 72 72 68	72 72 72 72 72 72	75 75 75 75 75	75 75 75 75 75
71 72 73 74 75	60 60 60 60	60 60 60 60	64 64 64 64	68 68 68 68	68 68 68 68	72 72 72 72 72	75 75 75 75 75	75 75 75 75 75
76 77 78 79 80	60 60 60 60	60 60 60 60	64 64 64 64 64	68 68 68 68	68 68 68 68	72 72 72 72 72 100	100	75 75 100 100
81 82 83 84 85+	60 60 60 60 100	60 60 60 100 100	64 64 100 100 100	68 100 100 100 100	100 100 100 100 100	100 100 100 100 100	100 100 100	100 100 100 100 100

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

ISSUE AGE				DURA	ATION			
1102	9	10	11	12	13	14	15	16
0- 15	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100
17	92	92	93	95	95	97	99	99
18	75	75	78	79	82	83	85	88
19	60	60	64	67	67	70	72	78
20	45	45	50	51	53	56	58	66
21	47	47	51	53	54	57	59	67
22	49	49	54	56	57	58	60	68
23	49	50	56	57	58	60	62	70
24	50	51	58	59	60	62	63	70
25	51	53	59	60	62	63	64	71
26 27 28 29 30	53 53 56 58 59	53 55 58 59 60	60 62 63 64 62	62 63 63 61 62	63 64 61 62 63	64 62 62 63 65	62 62 63 63 65	70 70 70 70 70 72
31	60	58	62	62	63	65	65	72
32	57	58	62	63	63	65	64	71
33	58	59	63	63	65	65	65	72
34	58	59	63	65	64	65	64	71
35	59	61	63	64	64	64	64	71
36	59	61	63	64	63	64	63	70
37	59	60	62	62	61	62	63	70
38	60	60	61	61	61	62	61	69
39	60	59	60	60	59	60	61	69
40	59	59	60	59	59	59	60	68
41	58	57	58	59	58	59	60	68
42	56	57	57	57	58	60	61	69
43	55	55	56	57	56	60	61	69
44	54	55	55	55	56	61	62	70
45	52	55	54	55	56	61	62	70
46	52	53	54	55	56	60	61	69
47	51	53	54	55	56	59	60	68
48	50	53	54	55	55	59	57	66
49	50	53	54	55	55	57	56	65
50	50	53	54	55	55	56	55	64
51	49	51	53	53	54	55	55	64
52	48	50	50	51	51	55	53	62
53	48	48	49	49	51	52	52	62
54	47	47	47	49	49	51	51	61
55	45	45	46	46	47	50	50	100
56	44	45	46	46	46	49	100	100
57	44	44	45	45	46	100	100	100
58	41	42	45	45	100	100	100	100

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497		VA	LUATION	OF	LIFE IN	SURANCE	POLICIES	2747.0060
59 60	40 39	41 40	44 100	100 100		100 100	100 100	100 100
61 62	38 80	80 80	100 100	100 100		100 100	100 100	100 100
63	80 80	80 80	100	100		100	100	100
64	80	80	100	100		100	100	100
65	80	80	100	100		100	100	100
66	80	80	100	100		100	100	100
67	80	80	100	100		100	100	100
68	80	80	100	100		100	100	100
69 70	80 80	80 80	100 100	100 100		100 100	100 100	100 100
71	80	80	100	100		100	100	100
72	80	80	100	100		100	100	100
73 74	80	80 80	100 100	100 100	100	100	100	100
74 75	80 80	80 80	100	100	100 100	100 100	100 100	100 100
76	80	100	100	100		100	100	100
77 78	100 100	100 100	100 100	100 100		100 100	100 100	100 100
78 79	100	100	100	100		100	100	100
80	100	100	100	100		100	100	100
81 82	100 100	100 100	100 100	100 100		100 100	100 100	100 100
82 83	100	100	100	100		100	100	100
84	100	100	100	100		100	100	100
85+	100	100	100	100		100	100	100
ISSUE AGE		DU:	RATION					
NOL	17	18	19	20+				
0- 15	100	100	100	100				
16	100	100	100	100				
17	99	100	100	100				
18	91	94	97	100				
19	83	89	94	100				
20	75	83	92	100				
21	75	84	92	100				
22	76	84	92	100				
23 24	77 78	85 85	92 93	100 100				
25 25	78	86	93	100				
26	77	85	92	100				
27 27	77	85	92	100				
28	78	85	93	100				
29	78	85	93	100				
30	79	86	93	100				

2747.0060 VALUATION OF LIFE INSURANCE POLICIES

31 32 33 34 35	79 78 79 78 78	86 86 86 86	93 93 93 93 93	100 100 100 100 100
36	78	85	93	100
37	78	85	93	100
38	77	84	92	100
39	77	84	92	100
40	76	84	92	100
41	76	84	92	100
42	77	84	92	100
43	77	84	92	100
44	77	85	92	100
45	77	85	92	100
46	77	84	92	100
47	76	84	92	100
48	74	83	91	100
49	74	82	91	100
50	73	82	91	100
51	73	82	91	100
52	72	81	100	100
53	71	100	100	100
54	100	100	100	100
55	100	100	100	100
56	100	100	100	100
57	100	100	100	100
58	100	100	100	100
59	100	100	100	100
60	100	100	100	100
61	100	100	100	100
62	100	100	100	100
63	100	100	100	100
64	100	100	100	100
65	100	100	100	100
66	100	100	100	100
67	100	100	100	100
68	100	100	100	100
69	100	100	100	100
70	100	100	100	100
71	100	100	100	100
72	100	100	100	100
73	100	100	100	100
74	100	100	100	100
75	100	100	100	100
76	100	100	100	100
77	100	100	100	100
78	100	100	100	100
79	100	100	100	100

499	VALUATION	OF LIFE	INSURANCE	POLICIES	2747 0060

80	100	100	100	100
81	100	100	100	100
82	100	100	100	100
83	100	100	100	100
84	100	100	100	100
85+	100	100	100	100

Subp. 7. Female, smoker.

ISSUE				DURA	TION			
AGE	1	2	3	4	5	6	7	8
0- 15	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100
18	99	100	100	100	100	100	100	95
19	87	89	92	92	92	92	84	84
20	74	77	80	80	80	73	73	73
21	71	74	78	78	71	71	73	74
22	68	71	75	70	71	71	73	74
23	65	69	67	70	70	70	73	77
24	62	60	64	69	70	70	74	77
25	53	58	63	67	69	70	74	78
26	53	58	63	69	71	72	75	79
27	52	56	63	70	74	74	78	81
28	52	56	64	71	75	77	79	82
29	51	56	64	71	78	78	81	84
30	51	56	64	72	79	79	82	85
31	51	56	64	72	78	81	84	84
32	51	56	64	71	78	81	85	86
33	51	57	62	71	78	82	85	83
34	51	56	62	71	78	82	81	83
35	51	56	62	71	78	79	83	84
36	49	56	62	71	74	79	83	84
37	48	55	62	67	74	79	83	84
38	47	55	57	66	72	77	81	84
39	45	50	57	66	72	77	81	83
40	41	50	57	66	72	77	81	83
41	40	50	57	65	71	76	79	81
42	40	49	57	65	69	74	77	80
43	39	49	55	63	69	73	76	78
44	39	48	55	62	67	71	75	78
45	37	47	55	61	65	70	73	76
46	36	46	53	59	63	68	71	75
47	34	44	51	57	62	66	70	75
48	34	44	50	54	60	64	69	74

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2747 0060	VALUATION	OF LIFE	INCLIDANCE	DUI ICIES

2/4/,0000	YAL	UATION OF	LIF	E INSURAIN	CE I	JLICIES		
49	33	42	48	53	58	63	68	74
50	31	41	46	51	57	61	67	74
51	30	39	45	51	56	61	67	74
52	29	38	45	50	56	62	68	74
53	28	37	43	49	57	62	68	73
54	28	36	43	49	57	63	69	73
55	26	35	42	49	57	63	69	73
56	26	35	42	49	56	62	67	71
57	26	35	42	49	55	61	66	69
58	28	36	43	49	55	59	63	68
59	28	36	43	49	54	57	63	67
60	28	36	43	49	53	57	61	64
61	26	35	42	48	52	56	59	63
62	26	33	41	47	51	55	58	62
63	25	33	41	46	51	55	57	80
64	25	33	40	45	50	53	80	80
65	24	32	39	44	49	72	75	75
66	24	32	39	44	72	72	75	75
67	24	32	39	72	72	72	75	75
68	24	32	68	72	72	72	75	75
69	24	64	68	72	72	72	75	75
70	60	60	64	68	68	72	75	75
71	60	60	64	68	68	72	75	75
72	60	60	64	68	68	72	75 75	75 75
73	60	60	64	68	68	72	75	75
73 74	60	60	64	68	68	72	75 75	75 75
					68	72 72	75 75	75 75
75	60	60	64	68	00	12	13	13
76	60	60	64	68	68	72	75	75
77	60	60	64	68	68	72	75	75
78	60	60	64	68	68	72	75	100
79	60	60	64	68	68	72	100	100
80	60	60	64	68	68	100	100	100
81	60	60	64	68	100	100	100	100
82	60	60	64	100	100	100	100	100
83	60		100	100	100	100	100	100
84	60	100	100	100	100	100	100	100
85 +	100		100	100	100	100	100	100
1001117				DURAT	TON			
ISSUE				DUKAI	ION			
AGE	9	10	11	12	13	14	15	16
0								
0-	100	100	100	100	100	100	100	100
15	100	100	100	100	100	100	100	100
16	100		100	100	100	100	100	100
17	100		100	100	100	100	100	100
18	96		100	100	100	100	100	100
19	86	86	92	93	95	96	99	99
20	75	77	83	83	86	88	90	92

501		VA	LUATION	OF	LIFE	INS	URANCE	POLICIES	2747.006
21 22	77 78	79 79	85 88	86 90		88 89	89 89	90 92	92 94
23 24	79 79	81 81	89 92	90 90		90 92	92 93	92 93	94 94
25	81	82	92	93		93	95 95	95 95	9 4 96
26	82	82	93	93		95	96	90	92
27	82	84	93	95		95	90	90	92
28	85	86	95 05	95		90 90	92	92	94
29 30	86 88	88 89	95 90	90 90		90 92	92 93	92 93	94 94
31	88	84	90	90		92	93	93	94
32	84	85	90	90		92	94	93	94
33	84	85	90	92		93	93	93	94
34	85	86	90	92		92	94	93	94
35	85	86	90	91		91	93	93	94
36	85	86	90	90		91	93	92	94
37	85	86	89	90		89	92	91	93
38 39	86 85	86 86	87 86	88 87		88 86	90 89	91 90	93 92
40	84	86 85	86 86	86		86	89	89	92 91
41	83	84	85	86		85	89	90	92
42	82	83	84	85		86	90	92	94
43	80	82	83	84		85	92	93	94
44	80	80	82	84		86	93	96	97
45	78	80	81	84		86	94	97	98
46	77	79	83	85		86	93	96	97
47	77 77	80	83	85		86	93	94	95
48 49	77 77	80	84 84	86 86		87 87	92 92	92 91	94 93
50	77	81 81	85	87		87	92 91	90	93 92
51	75	80	83	85		85	90	90	92
52	75	79	81	83		84	90	90	92
53	74	77	79	81		83	89	89	91
54	74	75	78	80		81	87	89	91
55	73	74	76	78		79	86	87	100
56	72	74	76	78		79	85	100	100
57	72	73	76	78	_	79	100	100	100
58	69	72 70	76	78		.00	100	100	100
59 60	68 67	70	76 100	100 100		.00	100 100	100 100	100
60	07	69	100	100	1	.00			100
61	66	80	100	100		00	100	100	100
62	80	80	100	100		.00	100	100	100
63 64	80 80	80 80	100	100		00	100	100	100
65	80 80	80 80	100 100	100 100		.00 .00	100 100	100 100	100 100
66	80	80	100	100	1	.00	100	100	100
67	80 80	80 80	100	100		.00	100	100	100
. 68	80	80	100	100		00	100	100	100
69	80	80	100	100		00	100	100	100

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2747 0060	VALUATION	OF LIFE	INCLIDANCE	DOLICIES
4/4/.WWW	VALUATION	Or Life	INSURANCE	rullues

2/4/.0000	VAL	UATION O	r Liri	INSUKA	NCE TO	LICIES		
70	80	80	100	100	100	100	100	100
71	80	80	100	100	100	100	100	100
72	80	80	100	100	100	100	100	100
73	80	80	100	100	100	100	100	100
74	80	80	100	100	100	100	100	100
75	80	80	100	100	100	100	100	100
76	80	100	100	100	100	100	100	100
77	100	100	100	100	100	100	100	100
78	100	100	100	100	100	100	100	100
79	100	100	100	100	100	100	100	100
80	100	100	100	100	100	100	100	100
81	100	100	100	100	100	100	100	100
82 83	100 100							
83 84	100	100	100	100	100	100	100	100
85 +	100	100	100	100	100	100	100	100
ISSUE AGE	DURATION							
AGE	17	18	19	20+				
0-								
15	100	100	100	100				
16	100	100	100	100				
17	100	100	100	100				
18 19	100 99	100 100	100 100	100 100				
20	99 94	96	98	100				
21	94	96	98	100				
22	95 05	97 97	98	100 100				
23 24	95 96	97 97	98 99	100				
25	97	98	99	100				
26	94	96	98	100				
27	94	96	98	100				
28	95	97	98	100				
29	95	97	98	100				
30	96	97	99	100				
31	96	97	99	100				
32	96	97	99	100				
33	96	97	99	100				
34	96	97 07	99	100				
35	96	97	99	100				
36	95	97	98	100				
37	95	96	98	100				
38	95	96	98	100				
39	94	96	98	100				
40	93	96	98	100				
41	94	96	98	100				

503	VALUATION	OF LIFE	INSURANCE	POLICIES	2747.0060

42	95	97	98	100
43	96	97	99	100
44	98	98	99	100
45	98	99	99	100
46	98	98	99	100
47	96	98	99	100
48	95	97	98	100
49	95	96	98	100
50	94	96	98	100
51	94	96	98	100
52	94	96	100	100
53	93	100	100	100
54	100	100	100	100
55	100	100	100	100
56	100	100	100	100
57	100	100	100	100
58	100	100	100	100
59	100	100	100	100
60	100	100	100	100
61	100	100	100	100
62	100	100	100	100
63	100	100	100	100
64	100	100	100	100
65	100	100	100	100
	100	100	100	100
66	100	100	100	100
67	100	100	100	100
68	100	100	100	100
69	100	100	100	100
70	100	100	100	100
71	100	100	100	100
72	100	100	100	100
73	100	100	100	100
74	100	100	100	100
75	100	100	100	100
15	100	100	100	100
76	100	100	100	100
77	100	100	100	100
78	100		100	
		100		100
79	100	100	100	100
80	100	100	100	100
81	100	100	100	100
82	100	100	100	100
83	100	100	100	100
84	100	100	100	100
85+	100	100	100	100

Statutory Authority: MS s 45.023; 61A.25

History: 24 SR 800

2747.0065 VALUATION OF LIFE INSURANCE POLICIES

2747.0065 2001 CSO MORTALITY TABLE.

The 2001 CSO Mortality Table, as defined in part 2748.0010, subpart 2, shall be used for purposes of parts 2747.0010 to 2747.0060 pursuant to the requirements of parts 2748.0010 to 2748.0050.

Statutory Authority: MS s 45.023; 61A.24; 61A.25

History: 28 SR 1039

504