



Home Office: Cedar Rapids, Iowa  
Long Term Care  
P.O. Box 869090  
Plano, TX 75086-9090

## **Actuarial Memorandum**

### **Policy Forms: MLC 1-FP (MD) 402 as UniProduct Series**

#### **Long Term Care Coverage**

##### **1) Scope and Purpose**

We requested a rate increase of 65%. After conversations with the Department, we have modified our rate increase amount to 15%. We intend to file for the remainder of the actuarially equivalent justified rate increase next year. The purpose of this memorandum is to file revised premium rates and demonstrate that the anticipated loss ratio meets the minimum requirements of this state. This memorandum is not to be used for other purposes.

Under the 58%/85% loss ratio requirement of the rate stability regulations, the requested rate increase should be 186%. However, we believe the requested 65% increase is appropriate under our current expectation of future experience. If the requested rate increase is approved and implemented as proposed, the Company does not expect to request additional rate increases based on current expectations of future experience. If actual future experience were to deteriorate further, additional rate action may become necessary even if the requested rate increase is approved and implemented as proposed.

The requested rate increase will take effect upon approval by the Department of Insurance subject to all notification requirements. The requested premium rate increase is needed because experience has exceeded the margin for adverse experience included in the original pricing, resulting in lifetime loss ratios that exceed the standards for rate action under the rate stability regulations.

The requested rate increase will not result in renewal premium rate schedules greater than new business premium rate schedules except for differences attributable to benefits.

The requested rate increase percentage will not vary by issue age, benefit period, benefit increase option, or any other component of the coverage.

## 2) Benefits \*

### Base Benefits

#### A. *Nursing Home Benefit*

Once the Elimination period has been met, the actual charges incurred for each day the Insured Person is confined to a Nursing Home will be paid, up to the Maximum Daily Benefit.

#### B. *Bed Reservation Benefit*

When an Insured Person is absent for any reason other than discharge during a Nursing Home or Assisted Living confinement, we will (1) pay the actual charges incurred for room and board while the room is being reserved, up to the Maximum Daily Benefit, if the Elimination Period has been satisfied, (2) give credit toward the satisfaction of the Elimination Period where the absence occurs while the Elimination Period is being satisfied; or (3) a combination of (1) and (2).

#### C. *Assisted Living Facility Benefit*

The actual charges for room and board and necessary maintenance and personal care expenses incurred for each day the Insured Person is confined to an Assisted Living Facility, up to the Maximum Daily Benefit, will be paid if treatment and/or services are received from a licensed, registered or certified Assisted Living Facility.

#### D. *Home Health Care and Adult Day Care Benefit*

The actual charges incurred for each day the Insured Person receives Home Health Care and Adult Day Care, up to the Maximum Daily Professional Services Benefit or the Maximum Daily Basic Services Benefit (whichever is applicable), will be paid.

#### E. *Alternative Payment Benefit*

Once an Insured Person has met the benefit eligibility, the insurer will pay the Monthly Benefit in advance each calendar month. This benefit will be paid in lieu of all other benefits for care or services provided under this policy.

#### F. *Respite Care Benefit*

The actual charges incurred for Respite Care, up to the Respite Care Maximum Daily Benefit(s), will be paid if such treatment and/or services are received from a Nursing Home, and Assisted Living Facility or in the Insured Person's Home.

#### G. *Hospice Care Benefit*

The actual charges incurred for each day an Insured Person receives Hospice Care, up to the Maximum Daily Benefit, will be paid by the insurer if it has been estimated by a doctor that the Insured Person has a life expectancy of 6 months or less and no reasonable prospect of cure and the treatment and/or services are received from a Hospice Care Provider.

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\* This is not intended to be a comprehensive listing of all benefits available.

*H. Therapeutic Device Benefit*

The actual charges incurred for the rental or purchase of a Therapeutic Device will be paid by the insurer if:

1. the Insured Person is receiving the Care Coordination Benefit; and
2. the Therapeutic Device is used in the Insured Person's Home.

*I. Medical Alert System Benefit*

The actual charges incurred for a Medical Alert System will be paid by the insurer for either: (1) rental and/or monitoring costs, not to exceed the monthly Medical Alert System Benefit; or (2) at the discretion of the insurer, the actual purchase cost of a Medical Alert System if the Insured Person is receiving the Care Coordination Benefit.

*J. Home Modification Benefit*

The actual charges incurred, not to exceed the Maximum Lifetime Home Modification Benefit, for labor, equipment and supplies needed in making minor modifications to the Insured Person's Home that will enhance his or her ability to perform the Activities of Daily Living and allow the Insured Person to safely remain in his or her home will be paid by the insurer if the Insured Person is receiving the Care Coordination Benefit.

*K. Caregiver Training Benefit*

The actual charges incurred for Caregiver Training of the Insured Person or a Volunteer Caregiver to assist an Insured Person, not to exceed the Maximum Lifetime Caregiver Training Benefit, will be paid by the insurer if:

1. the Insured Person is receiving the Care Coordination Benefit; and
2. Caregiver Training is not already provided free of charge by an equipment or supply vendor.

*L. Waiver of Premium*

Premiums will be waived on a monthly basis once the Elimination Period has been met and while the Insured Person is receiving Nursing Home, Assisted Living Facility, Home Health Care or Adult Day Care benefits, or the Alternate Payment Benefit.

*M. Contingent Non-forfeiture Benefit – Shortened Benefit Period*

In the event that premium rates increase to a level which results in a cumulative increase of the premium equal to or exceeding the percentage of the initial premium set forth in the Triggers for a Substantial Premium Increase table, the Insured Person will receive the Contingent Non-forfeiture benefit, and he or she may elect to: (1) reduce current benefits; or (2) during the 120 days following the Premium Due Date on which the increased premium would first have become due, convert his or her coverage as follows:

1. the daily benefit amounts available will remain as they were at the time coverage would have lapsed under the policy;
2. the total benefit amount in force under this benefit will be equal to the amount of all premium paid, excluding waived premiums, for all coverage combined including this benefit.

The minimum benefit will be 30 times the daily benefit in force at the time the policy would have lapsed.

### **Optional Benefits**

*A. Prescription Drug Benefit in a Nursing Home*

An Insured Person will receive the Prescription Drug Benefit if they are receiving prescription drugs while confined to a Nursing Home and receiving the Nursing Home Benefit.

*B. Ambulance Benefit*

The actual charges incurred for emergency ambulance service to or from a Nursing Home, up to the Maximum Benefit for each Ambulance Trip, will be paid if the Insured Person has not reached the Maximum Benefit Limitation or the Maximum Number of Trips per Calendar Year.

*C. Monthly Home Care Benefit*

If the Insured Person is receiving the Care Coordination Benefit, the actual charges incurred for Home Health Care and Adult Day Care will be paid on the basis of services received during each continuous 30-day period rather than on a daily basis. This benefit will be in lieu of the Home Health Care and Adult Day Care Benefit.

*D. Professional Services Benefit at 2 times Basic Services*

An applicant may choose to have a Maximum Daily Benefit for Professional Services equal to 2 times the Maximum Daily Benefit for Basic Services.

*E. Nursing Home Indemnity Payment Option*

In lieu of the Nursing Home Benefit, the full amount of the Nursing Home Maximum Daily Benefit will be paid to the Insured Person.

*F. Full Restoration of Benefits*

Once a period of time during which the insurer has been paying benefits under the policy has ended, the benefit amounts that have been paid will be restored to the remaining applicable Maximum Benefit if the Insured Person has ceased to be a Chronically Ill Individual for at least 180 consecutive days and the policy remains in force.

*G. Joint Waiver of Premium Benefit*

When the spouse of an Insured Person is receiving the Waiver of Premium Benefit, the Insured Person's premiums will be waived if both the Insured Person and spouse are insured as a married couple on the same policy form series which includes this Joint Waiver of Premium Benefit.

*H. Survivorship -Waiver of Premium (insured under same policy)*

The premiums for the surviving Insured Person will be waived, after the last of the following to occur: (1) the date of death of the other Insured Person; or (2) the tenth anniversary of the effective date of this policy, if:

1. The Insured Person and other Insured Person have coverage in force under this policy; and
2. the other Insured Person dies while this policy is in force.

Several variations of this benefit are that the Insured Person(s) must not have incurred any claims and / or a death did not occur during the Number of Years Insured shown on the schedule, and listed below:

1. No deaths within the first 5 policy years,
2. No deaths or claims within the first 5 policy years, and
3. No deaths or claims within the first 10 policy years.

*I. Spouse Survivorship –Waiver of Premium (insured under separate policies)*

The premiums for the surviving Insured Person will be waived, after the last of the following to occur: (1) the date of death of the spouse; or (2) the tenth anniversary of the effective date of this policy, if:

1. The Insured Person and the spouse have coverage in force under this form series; and
2. the spouse dies while both policies are in force.

Several variations of this benefit are that the Insured Person(s) must not have incurred any claims and / or a death did not occur during the Number of Years Insured shown on the schedule, and listed below:

1. No deaths within the first 5 policy years,
2. No deaths or claims within the first 5 policy years, and
3. No deaths or claims within the first 10 policy years.

*J. Simple Benefit Increase Option*

Every dollar benefit amount will increase by the percentage shown on the schedule of the original dollar benefit amounts on each anniversary of the option, up to the Maximum Multiple, so long as the option remains in force.

Several variations of this option were priced:

1. 3%, with unlimited increases,
2. 3%, with increases capped at 2 times the original benefit amount,
3. 5%, with unlimited increases, and
4. 5%, with increases capped at 2 times the original benefit amount.

*K. Compound Benefit Increase Option*

Every dollar benefit amount will increase by the percentage shown on the schedule of the current dollar benefit amounts on each anniversary of this option, up to the Maximum Multiple, so long as the option remains in force.

Several variations of this option were priced:

1. 3%, with unlimited increases,
2. 3%, with increases capped at 2 times the original benefit amount,
3. 5%, with unlimited increases, and
4. 5%, with increases capped at 2 times the original benefit amount.

*L. Step Rated Compound Benefit Increase Option*

Current premiums will increase and every dollar benefit amount will increase by the percentage shown on the schedule on every anniversary, every third

anniversary or fifth anniversary of this option so long as the option remains in force. This option is not available on any limited payment plan.

*M. Deferred Benefit Increase Option*

The Insured Person may add a Benefit Increase Option without evidence of insurability within the 90 day period prior to the first, third, or fifth anniversary of the policy, if they have not incurred a claim. The additional premium required for the Benefit Increase Option selected will be based on the attained ages of the Insured Persons when this option is exercised, and the increases in dollar benefit amounts will take effect on the second anniversary after this option is exercised.

*N. Guaranteed Purchase Option*

The Insured Person will have the opportunity to purchase additional coverage equal to 16% of the amounts initially elected on each of the Purchase Option Dates without evidence of insurability if:

1. The Insured Person has not reached the Attained Age Limit;
2. The policy is in force on the Purchase Option Date,
3. Prior to age 70 this benefit will terminate if the Insured Person does not elect to purchase the additional amount on any two Purchase Option Dates;
4. On and after age 70, this benefit will terminate if the Insured Person does not elect to purchase the additional amount on any Purchase Option Date.

*O. Return Of Premium Benefit*

Once all Insured Persons have died, the named beneficiary will receive the Return of Premium Benefit, and a lump sum amount equal to the lesser of: (1) the sum of all premiums paid less the amount of any benefits paid or (2) the Return of Premium Maximum will be paid by the insurer.

*P. Full Return Of Premium Benefit*

Once all Insured Persons have died, the named beneficiary will receive the Full Return of Premium Benefit, and a lump sum amount equal to the lesser of: (1) the sum of all premiums paid or (2) the Return of Premium Maximum Benefit will be paid by the insurer.

*Q. Non-forfeiture Benefit – Shortened Benefit Period*

Once an Insured Person's coverage has been in effect for at least 3 full years, coverage will continue on a limited basis when it would otherwise have lapsed for nonpayment of premium with the following conditions:

1. the daily benefit amounts available will remain as they were at the time coverage would have lapsed under the policy;
2. the total benefit amount in force under this benefit will be equal to the amount of all premiums paid, excluding waived premiums, for all coverage combined including this benefit; and
3. the minimum benefit provided will be equal to 30 times the daily benefit in force at the time the Policy would have lapsed.

*R. Patient Advocacy and Medication Management Benefit*

The cost of unplanned visits, not more often than once each 6 months, from a person contracted by the insurer to a covered facility for the purpose of assessing living conditions in the facility and the care being received by the Insured Person will be paid if:

1. the insured is permanently confined to a facility covered in the policy, and
2. the insured is receiving the Care Coordination Benefit.

The actual charges incurred for services provided by a Nurse in helping the Insured Person to comply with his or her medication/treatment regimen will be paid by the insurer if the Insured Person is receiving the Care Coordination Benefit.

*S. Rate Guarantee*

A 3 year rate guarantee is available at no extra charge. Rate guarantees in whole year increments are also available for an additional charge.

*T. Paid-Up Provision*

The Insured Person's policy will become fully paid-up and no further premiums will be due once premiums have been paid according to the Premium Paying Period. In the event that the Insured Person discontinues premium payment prior to the end of the Premium Paying Period, a percentage of the dollar benefit amounts payable will become paid-up in accordance with the table below.

IF PREMIUMS ARE PAID TO:	% of PAID-UP
5 or more years prior to End of Premium Paying Period	0%
4 years prior to End of Premium Paying Period	20%
3 years prior to End of Premium Paying Period	40%
2 years prior to End of Premium Paying Period	60%
1 year prior to End of Premium Paying Period	80%
End of Premium Paying Period	100%

*U. Cancellation Provision*

In the event that a policy with a Premium Payment Period of less than 10 years is cancelled, or all insureds become deceased, a portion of the premium paid, excluding any waived premiums and reduced by the amount of any benefits paid, will be refunded. The portion of premium paid is based upon how long the policy has been in force.

**3) Renewability**

These policy forms are guaranteed renewable for life, subject to the company's right to change premium rates.

#### **4) Applicability**

This filing applies to inforce insureds only, as these forms are no longer actively being sold. The premium change will be applicable to the base rates. There will be no change to the original factors that are applied to the base rates.

#### **5) Morbidity**

The underlying claim costs are based on internal data derived from company experience. The claim costs represent best estimate values and do not include an explicit provision for moderately adverse conditions.

The original morbidity assumptions were based on data from Milliman USA's 1997 LTC Guidelines and available internal experience. Claim cost modifiers were developed, based on data from Milliman USA and available internal experience, to reflect the effect of underwriting on the ultimate claim costs and varied by marital status, issue age and benefit period.

As shown in the enclosed Exhibit II, the projected lifetime Actual to Expected Incurred Claims is 215%. So the current assumption for morbidity is 115% higher than used in pricing. This exceeds the moderately adverse conditions assumption in the original pricing, which was 10%.

The current morbidity assumption used in this rate increase filing is consistent with the assumption the Company has used for currently marketed policy forms.

#### **6) Off-Claim Mortality**

The 1983 GAM mortality table, with select factors based on company experience, was used for projecting future mortality.

The original total in-force mortality assumptions were the ultimate mortality rates of the 1983 Individual Annuitant Mortality Table adjusted by selection factors.

As shown in the enclosed Exhibit II, the projected lifetime Actual to Expected Earned Premiums is 109%, so actual mortality rate and/or lapse rate has been smaller than assumed in the original pricing; however, the overall result of mortality and persistency has been within the moderately adverse conditions assumption in the original pricing.

#### **7) Persistency**

Voluntary lapse rates are based on Company experience and vary by duration and issue age. Different lapse rates are assumed based on inflation option and marital discount.



**8) Expenses**

Expenses have not been explicitly projected. It is assumed that the originally filed expense assumptions remain appropriate.

**9) Marketing**

These policy forms were marketed by agents to individuals 18 years and older. In addition; employers, associations, or affinity groups were accepted for group sponsored rates under this individual policy.

**10) Policy Design**

Policy design features have been taken into consideration. Benefit provisions, exclusions, elimination periods, benefit periods, number of units, benefit growth, etc. have been accounted for either in the development of claim costs or projection model formulas.

**11) Underwriting**

These policy forms were underwritten with the use of various underwriting tools in addition to the application, which may have included medical records, an attending physician's statement, telephone interview and/or face-to-face assessment. The effect of underwriting has been incorporated into the projection.

**12) Claims Adjudication Practice**

No significant changes to the standard operating practices of the Claims Department have been necessary to date nor are any changes expected to be necessary in the future. The claims adjudication staff has maintained a consistently high degree of expertise, experience, and performance over the life of these policy forms and this is expected to continue in the future. Therefore, special adjustments due to claims adjudication practice have not been incorporated into the projection.

**13) Premiums**

Premiums vary based on original issue age, rate class, and benefit options selected.

**14) Issue Age Range**

Applicants age 18 years and older were eligible for all elimination periods and benefit periods.

**15) Area Factors**

Area factors are not used for these products.

**16) Average Annual Premium**

Before increase: \$1,348. After increase: \$1,550.

**17) Premium Modalization Rules**

Modal factors which are applied to the annual premium are no greater than as follows:

Annual	1.000
Semi-annual	.520
Quarterly	.265
Monthly	.090

**18) Claim Liability and Reserve**

The present value of amounts not yet due (Exhibit 6) is calculated for all open claims using termination rates derived from company experience. The resulting reserve is adjusted by factors based on age at incurral, gender, and benefit period developed from company experience. The interest rate varies by year of incurral. The incurred but not reported and in course of settlement reserves are calculated based on the development of incurred claims by month of incurral, based on internal Company data. The claim reserves underlying the incurred claims in the projection are consistent with the reserves reported in Exhibits 6 and 8 of the Company’s financial statement.

**19) Active Life Reserve**

Active life reserves have not been used in this rate filing to demonstrate compliance with the minimum loss ratio requirement. The inclusion of active life reserves would result in a larger justifiable rate increase based on loss ratios and actual-to-expected projections.

**20) Trend Assumptions**

As this is not medical insurance, we have not included any explicit medical cost trends in the projections.

**21) Anticipated Loss Ratio**

The original anticipated lifetime loss ratio for these policy forms was 60%. The currently anticipated lifetime loss ratio is 115% without the proposed rate increase and 93% with the proposed rate increase.

**22) Distribution of Business**

See Attachment A.

## **23) Margin for Moderately Adverse Conditions**

The margin included in the original pricing of these policy forms was the greater of a 10% increase in morbidity, 10% decrease in mortality or 10% decrease in lapses. Actual historical experience combined with revised assumptions for morbidity and persistency have resulted in lifetime expected loss ratios significantly greater than those anticipated at the time of original pricing. The enclosed Exhibit II shows that the projected lifetime Actual to Expected Incurred Claims is 215%, much greater than the 110% level of morbidity included under adverse conditions. The current margin for moderately adverse conditions is a 10% increase in expected morbidity.

The proposed rate increase is less than that justified by the 58/85 loss ratio standard in the rate stability regulations. As such, there is no margin for adverse experience in the filing exhibits, unless specifically requested and noted. The rate increase we are requesting was determined by a Gross Premium Valuation analysis, which is why we are requesting considerably less increase than the rate stability regulations would require.

## **24) Experience on the Form**

Standing alone, the experience for these policy forms is less than fully credible due to the limited number of issue years (essentially years 2001 through 2005 only). However, the captioned policy forms and the associated rates and rating classifications are identical to policy forms of an affiliated company and therefore we believe that the experience of both sets of policy form series will prove to be substantially similar over the lifetime of the block. In accordance to Actuarial Standards of Practice No. 25, "Credibility Procedures", experience data for this filing includes this type of "normative data." The normative data includes actual historical and projected experience for the affiliated company forms that are virtually identical to these forms. The normative data is for policy forms that were issued for more issue years, and have more actual durations of experience than the captioned forms alone. In addition to projections including the normative data, actual historical experience for the referenced policy form series only is included as well.

The following experience exhibits, aside from Exhibits III and IV, include the above mentioned "normative data:"

The enclosed Exhibit I shows that the 58/85 test is satisfied using the original expected pricing loss ratio of 60% both without a margin for moderately adverse conditions and with a 10% margin for future adverse claims experience.

See Exhibit I for nationwide calendar year historical experience through September 30, 2016, as well as projected experience thereafter both with and without the proposed rate increase where all policyholders are assumed to pay the increase under the 'with proposed rate increase' scenario.

See Exhibit II for nationwide actual-to-expected experience by duration where 'actual' experience includes historical experience through September 30, 2016. Historical Incurred Claims reflect claim payment runoff through January 31, 2017, plus the claim reserve estimate as of January 31, 2017 (as described in Section 18 above).

See Exhibit III for nationwide calendar year historical experience through September 30, 2016, for the above captioned form series experience of the Transamerica Premier Life Insurance Company only.

**25) History of Rate Adjustments**

No rate increase has previously been applied to the premium rate schedule.

**26) Number of Policyholders**

As of September 30, 2016, the number of policies that will be affected by this increase is:

	Insureds	Annualized Premium
Maryland	4	\$17,413
Nationwide	7,561	\$10,194,181

**27) Proposed Effective Date**

The increase will be implemented within 3 months following approval after fulfillment of all statutory and contractual requirements.

**28) Actuarial Certification**

I certify that to the best of my knowledge and judgment, this premium rate filing complies with the applicable laws of the state of Maryland, with the rules of the Department of Insurance, and with Actuarial Standard of Practice Nos. 8 and 18. If the requested increase is implemented and the underlying assumptions are realized, no further premium rate schedule increase are anticipated. However, going forward, the Company will continue to monitor the experience of this block and reserves the right to take additional rate action if currently unanticipated future deterioration thereof justifies.



Brad Rokosh, ASA, MAAA  
Director, Actuarial, LTC Margin Analytics

January 3, 2018

## Attachment A

### By Issue Age

Issue Age Band	% of Policies
0 to 59	48.7%
60 to 64	23.4%
65 to 69	16.7%
70 to 74	8.0%
75 to 79	2.7%
80+	0.5%

### By Elimination Period

Elimination Period	% of Policies
30 days or less	5.1%
60 days	15.4%
90 days	76.8%
Over 90 days	2.7%

### By Maximum Benefit Period

Benefit Period	% of Policies
2 years or less	2.0%
3 years	25.4%
4 years	17.0%
5 years	11.1%
Unlimited	44.5%

### By Benefit Increase Option

Increase Option	% of Policies
None	42.6%
Simple	35.0%
Compound	22.4%

**Exhibit I  
Transamerica Premier Life Insurance Company**

**Policy Forms: UniProduct Series  
Combined Experience for Transamerica Life and Transamerica Premier Life Insurance Companies  
Actual Nationwide Experience Through September 30, 2016 and Projected Experience Thereafter**

Year	Earned Premium		Incurred Claims	Lives	Loss Ratios Excluding Change in ALR			
	Actual Past & Projected Future w/o Proposed Rate Increase	Actual Past & Projected Future w/ Proposed Rate Increase	Actual Past & Projected Future	Actual Past and Projected Future	Actual w/o Rate Increase	Actual w/ Rate Increase	PV Actual Cumulative w/o Rate Increase	PV Actual Cumulative w/ Rate Increase
2002	221,261	221,261	0	225	0.0%	0.0%	0.0%	0.0%
2003	9,305,364	9,305,364	18,217	6,065	0.2%	0.2%	0.2%	0.2%
2004	38,876,511	38,876,511	852,821	19,802	2.2%	2.2%	1.8%	1.8%
2005	39,783,849	39,783,849	2,419,873	24,912	6.1%	6.1%	3.7%	3.7%
2006	35,018,490	35,018,490	2,095,601	24,059	6.0%	6.0%	4.3%	4.3%
2007	34,121,425	34,121,425	5,602,534	23,213	16.4%	16.4%	6.7%	6.7%
2008	33,850,233	33,850,233	4,698,837	22,968	13.9%	13.9%	7.9%	7.9%
2009	32,789,631	32,789,631	5,822,635	23,139	17.8%	17.8%	9.2%	9.2%
2010	35,576,428	35,576,428	8,962,052	24,034	25.2%	25.2%	11.0%	11.0%
2011	46,095,818	46,095,818	9,251,741	27,515	20.1%	20.1%	12.2%	12.2%
2012	52,336,736	52,336,736	11,793,471	31,010	22.5%	22.5%	13.5%	13.5%
2013	51,926,876	51,926,876	16,227,872	31,747	31.3%	31.3%	15.3%	15.3%
2014	48,908,449	48,908,449	20,223,528	31,131	41.3%	41.3%	17.5%	17.5%
2015	47,384,785	47,384,785	24,512,447	30,332	51.7%	51.7%	20.1%	20.1%
2016Q1-Q3	34,779,490	34,779,490	21,796,931	22,196	62.7%	62.7%	22.2%	22.2%
2016Q4	11,444,415	11,444,415	7,820,479	7,333	68.3%	68.3%	22.9%	22.9%
2017	44,910,031	46,783,874	32,916,411	28,846	73.3%	70.4%	25.7%	25.7%
2018	43,481,094	49,580,654	36,512,814	28,082	84.0%	73.6%	28.6%	28.4%
2019	41,931,302	48,220,997	41,115,782	27,318	98.1%	85.3%	31.7%	31.2%
2020	40,328,860	46,378,189	46,112,227	26,547	114.3%	99.4%	34.9%	34.2%
2021	38,172,865	43,898,794	51,119,513	25,764	133.9%	116.4%	38.2%	37.3%
2022	36,133,026	41,552,980	55,705,386	24,967	154.2%	134.1%	41.7%	40.5%
2023	34,504,712	39,680,419	60,081,049	24,157	174.1%	151.4%	45.2%	43.8%
2024	32,856,632	37,785,127	64,532,443	23,330	196.4%	170.8%	48.7%	47.1%
2025	31,260,411	35,949,473	68,568,524	22,488	219.3%	190.7%	52.3%	50.5%
2026	29,766,455	34,231,423	72,153,208	21,631	242.4%	210.8%	55.9%	53.8%
2027	28,311,056	32,557,715	75,565,139	20,760	266.9%	232.1%	59.4%	57.1%
2028	26,860,665	30,889,765	78,924,262	19,877	293.8%	255.5%	63.0%	60.4%
2029	25,409,847	29,221,324	82,152,740	18,983	323.3%	281.1%	66.5%	63.6%
2030	23,960,506	27,554,582	84,620,929	18,078	353.2%	307.1%	69.9%	66.9%
2031	22,515,234	25,892,519	86,150,727	17,167	382.6%	332.7%	73.2%	70.0%
2032	21,081,245	24,243,432	87,970,049	16,252	417.3%	362.9%	76.5%	73.0%
2033	19,662,045	22,611,351	89,169,575	15,334	453.5%	394.4%	79.6%	76.0%
2034	18,263,368	21,002,873	90,074,650	14,418	493.2%	428.9%	82.7%	78.8%
2035	16,889,761	19,423,225	90,350,011	13,505	534.9%	465.2%	85.6%	81.6%
2036	15,548,181	17,880,408	89,800,086	12,602	577.6%	502.2%	88.4%	84.2%
2037	14,246,086	16,382,999	88,417,409	11,711	620.6%	539.7%	91.0%	86.6%
2038	12,988,644	14,936,941	86,397,596	10,839	665.2%	578.4%	93.5%	89.0%
2039	11,782,205	13,549,536	84,000,121	9,989	712.9%	619.9%	95.8%	91.1%
2040	10,632,960	12,227,904	81,076,901	9,166	762.5%	663.0%	98.0%	93.1%
2041	9,545,487	10,977,310	77,606,076	8,374	813.0%	707.0%	99.9%	95.0%
2042	8,524,176	9,802,802	73,720,539	7,617	864.8%	752.0%	101.7%	96.6%
2043	7,572,148	8,707,971	69,593,521	6,899	919.1%	799.2%	103.3%	98.2%
2044	6,691,290	7,694,983	65,362,090	6,222	976.8%	849.4%	104.8%	99.5%
2045	5,882,080	6,764,392	61,047,321	5,588	1037.9%	902.5%	106.1%	100.8%
2046	5,143,892	5,915,476	56,660,977	4,997	1101.5%	957.8%	107.3%	101.9%
2047	4,474,890	5,146,124	52,333,954	4,450	1169.5%	1017.0%	108.3%	102.9%
2048	3,872,530	4,453,409	48,091,800	3,947	1241.9%	1079.9%	109.3%	103.7%
2049	3,334,032	3,834,137	43,982,275	3,486	1319.2%	1147.1%	110.1%	104.5%
2050	2,855,757	3,284,120	40,023,527	3,066	1401.5%	1218.7%	110.8%	105.2%
2051	2,433,919	2,799,007	36,229,320	2,686	1488.5%	1294.4%	111.4%	105.7%
2052	2,064,365	2,374,020	32,635,827	2,344	1580.9%	1374.7%	111.9%	106.2%
2053	1,742,726	2,004,135	29,244,093	2,037	1678.1%	1459.2%	112.4%	106.7%
2054	1,464,647	1,684,344	26,069,116	1,764	1779.9%	1547.7%	112.8%	107.0%
2055	1,225,676	1,409,528	23,117,627	1,522	1886.1%	1640.1%	113.1%	107.3%
2056	1,021,518	1,174,746	20,385,377	1,308	1995.6%	1735.3%	113.4%	107.6%
2057	848,029	975,233	17,885,511	1,120	2109.1%	1834.0%	113.6%	107.8%
2058	701,309	806,505	15,609,094	955	2225.7%	1935.4%	113.8%	108.0%
2059	577,818	664,491	13,545,460	811	2344.2%	2038.5%	114.0%	108.2%
2060	474,301	545,446	11,677,320	687	2462.0%	2140.9%	114.1%	108.3%
2061	387,920	446,108	10,003,895	579	2578.9%	2242.5%	114.2%	108.4%
2062	316,134	363,554	8,529,457	486	2698.1%	2346.1%	114.3%	108.5%
2063	256,733	295,243	7,230,081	406	2816.2%	2448.9%	114.4%	108.6%
2064	207,747	238,909	6,090,270	338	2931.6%	2549.2%	114.5%	108.6%
2065	167,526	192,655	5,097,859	280	3043.0%	2646.1%	114.5%	108.7%
2066	134,669	154,869	4,241,396	231	3149.5%	2738.7%	114.5%	108.7%
2067	107,918	124,105	3,508,218	190	3250.8%	2826.8%	114.6%	108.7%
2068	86,218	99,151	2,882,950	155	3343.8%	2907.6%	114.6%	108.8%
PV Past	366,240,519	366,240,519	81,183,558	342,349	22.2%	22.2%		
PV Future	239,552,830	271,994,316	613,013,970	171,058	255.9%	225.4%		
PV Lifetime	605,793,349	638,234,835	694,197,528	513,406	114.6%	108.8%		

A = \$212,419,501 Present value of initial earned premium times 58%  
 B = \$0 Present value of prior premium rate increases times 85%  
 C = \$138,940,641 Present value of future projected initial earned premium times 58%  
 D = \$27,575,264 Present value of future projected earned premium from rate increases times 85%  
 A+B+C+D = \$378,935,406  
 \$694,197,528 Present value of incurred claims + present value of future projected incurred claims No MAE  
 \$755,498,925 Present value of incurred claims + present value of future projected incurred claims with MAE  
 Present value of incurred claims + present value of future projected incurred claims is not less than A+B+C+D

**Exhibit II**  
**Transamerica Premier Life Insurance Company**

**Policy Forms: UniProduct Series**  
**Combined Experience for Transamerica Life and Transamerica Premier Life Insurance Companies**  
**Actual To Expected Lifetime Experience**

**Actual Nationwide Experience Through September 30, 2016 and Projected Experience Thereafter**

Duration	Actual			Expected			Actual to Expected		
	A	B	C	D	E	F	G=A/D	H=B/E	I=C/F
	Earned Premium @ Original Rate Level	Incurred Claims Excluding ALR Increase	Cumulative Loss Ratio Excluding ALR Increase	Earned Premium @ Original Rate Level	Incurred Claims Excluding ALR Increase	Cumulative Loss Ratio Excluding ALR Increase	Actual to Expected Earned Premium	Actual to Expected Incurred Claims Excluding ALR Increase	Cumulative Loss Ratio Excluding ALR Increase
1	83,716,688	1,652,215	2.0%	83,713,912	325,831	0.4%	100.0%	507.1%	507.1%
2	64,321,944	1,855,736	2.4%	57,351,898	1,013,190	0.9%	112.2%	183.2%	252.5%
3	58,551,618	2,214,973	2.7%	55,092,533	1,952,731	1.6%	106.3%	113.4%	168.2%
4	56,959,743	6,471,267	4.5%	53,167,999	3,127,884	2.5%	107.1%	206.9%	180.9%
5	55,181,501	6,843,719	5.7%	51,609,713	4,414,076	3.4%	106.9%	155.0%	167.4%
6	53,170,770	9,197,160	7.2%	49,154,102	5,722,621	4.4%	108.2%	160.7%	161.9%
7	51,903,217	10,046,603	8.5%	47,974,823	6,953,429	5.5%	108.2%	144.5%	154.5%
8	50,613,498	16,149,705	10.6%	46,750,584	8,100,329	6.5%	108.3%	199.4%	162.0%
9	49,532,181	15,028,646	12.1%	45,495,327	9,172,015	7.6%	108.9%	163.9%	160.1%
10	47,361,697	20,555,571	14.2%	44,194,856	10,222,061	8.6%	107.2%	201.1%	165.1%
11	43,618,556	25,315,650	16.6%	39,948,500	11,271,135	9.6%	109.2%	224.6%	172.0%
12	42,031,356	29,407,655	19.2%	38,642,430	12,429,172	10.7%	108.8%	236.6%	178.9%
13	40,893,149	36,476,925	22.2%	37,306,534	13,768,533	11.8%	109.6%	264.9%	187.8%
14	39,563,198	41,649,601	25.4%	35,942,095	15,289,280	13.0%	110.1%	272.4%	195.8%
15	38,067,805	44,832,953	28.5%	34,553,027	16,912,833	14.2%	110.2%	265.1%	201.5%
16	36,356,588	50,702,982	31.9%	32,850,137	18,658,948	15.4%	110.7%	271.7%	206.9%
17	34,886,949	56,881,710	35.4%	31,427,965	20,593,690	16.7%	111.0%	276.2%	211.9%
18	33,412,388	63,151,506	39.1%	29,990,544	22,661,503	18.1%	111.4%	278.7%	216.3%
19	31,918,671	68,450,599	42.9%	28,541,248	24,819,822	19.5%	111.8%	275.8%	219.9%
20	30,282,180	73,148,564	46.7%	27,083,893	27,013,846	21.0%	111.8%	270.8%	222.5%
21	28,371,140	78,292,915	50.6%	25,117,991	29,264,153	22.6%	113.0%	267.5%	224.5%
22	26,800,097	82,449,796	54.5%	23,677,234	31,596,445	24.2%	113.2%	260.9%	225.7%
23	25,257,106	85,729,897	58.3%	22,242,047	34,023,759	25.8%	113.6%	252.0%	226.2%
24	23,712,300	88,517,789	62.1%	20,817,497	36,528,695	27.5%	113.9%	242.3%	225.9%
25	22,175,057	91,012,923	65.8%	19,409,064	39,127,833	29.2%	114.3%	232.6%	225.0%
26	20,654,524	93,786,948	69.4%	18,022,444	41,616,109	31.0%	114.6%	225.4%	223.8%
27	19,152,571	95,442,001	72.9%	16,663,350	43,946,298	32.8%	114.9%	217.2%	222.3%
28	17,675,487	95,987,137	76.3%	15,337,231	46,200,246	34.6%	115.2%	207.8%	220.4%
29	16,234,514	95,770,978	79.5%	14,049,465	48,071,874	36.4%	115.6%	199.2%	218.3%
30	14,835,294	95,089,506	82.6%	12,805,363	49,386,766	38.2%	115.9%	192.5%	216.2%
31	13,486,539	94,431,962	85.5%	11,609,929	50,297,891	40.0%	116.2%	187.7%	214.1%
32	12,194,492	92,795,903	88.3%	10,467,716	50,702,234	41.6%	116.5%	183.0%	212.0%
33	10,965,632	89,943,076	90.8%	9,382,313	50,625,320	43.3%	116.9%	177.7%	210.0%
34	9,805,887	86,294,794	93.2%	8,356,795	50,288,784	44.8%	117.3%	171.6%	208.0%
35	8,719,876	82,263,374	95.3%	7,393,827	49,529,970	46.2%	117.9%	166.1%	206.1%
36	7,710,767	78,364,489	97.3%	6,495,592	48,244,467	47.6%	118.7%	162.4%	204.4%
37	6,779,930	74,047,790	99.1%	5,663,699	46,501,665	48.9%	119.7%	159.2%	202.8%
38	5,927,518	69,179,148	100.7%	4,898,696	44,246,580	50.0%	121.0%	156.3%	201.3%
39	5,153,319	64,125,129	102.1%	4,200,570	41,604,819	51.1%	122.7%	154.1%	200.0%
40	4,455,875	59,116,777	103.4%	3,568,884	38,526,946	52.0%	124.9%	153.4%	198.9%
41	3,832,764	54,379,529	104.5%	3,002,729	35,085,984	52.8%	127.6%	155.0%	198.0%
42	3,280,161	49,716,959	105.5%	2,500,633	31,498,697	53.5%	131.2%	157.8%	197.3%
43	2,793,713	45,036,007	106.3%	2,060,154	27,887,608	54.1%	135.6%	161.5%	196.7%
44	2,368,512	40,607,282	107.1%	1,678,099	24,352,289	54.6%	141.1%	166.7%	196.3%
45	1,999,363	36,476,104	107.7%	1,350,703	20,985,848	55.0%	148.0%	173.8%	196.0%
46	1,681,066	32,677,104	108.2%	884,150	13,791,460	55.2%	190.1%	236.9%	196.0%
47	1,408,124	29,146,296	108.7%	692,833	11,557,297	55.4%	203.2%	252.2%	196.2%
48	1,175,282	25,807,278	109.1%	535,573	9,574,249	55.6%	219.4%	269.5%	196.3%
49	977,596	22,763,536	109.4%	407,938	7,840,825	55.7%	239.6%	290.3%	196.5%
50	810,538	19,975,925	109.7%	305,670	6,316,998	55.8%	265.2%	316.2%	196.6%
51	669,971	17,451,515	110.0%	224,846	5,025,743	55.9%	298.0%	347.2%	196.8%
52	552,145	15,154,563	110.2%	161,912	3,932,666	55.9%	341.0%	385.4%	196.9%
53	453,718	13,051,550	110.3%	113,745	3,022,454	56.0%	398.9%	431.8%	197.1%
54	371,784	11,193,524	110.5%	77,620	2,299,692	56.0%	479.0%	486.7%	197.2%
55	303,774	9,553,886	110.6%	51,175	1,670,532	56.0%	593.6%	571.9%	197.3%
56	242,460	8,011,744	110.7%	31,555	1,187,065	56.0%	768.4%	674.9%	197.4%
57	186,836	6,479,846	110.7%	17,451	787,259	56.1%	1070.6%	823.1%	197.5%
58	137,853	4,865,004	110.8%	8,398	471,699	56.1%	1641.5%	1031.4%	197.6%
59	101,765	3,538,446	110.8%	3,730	299,422	56.1%	2728.5%	1181.8%	197.6%
60	78,918	2,733,411	110.8%	1,671	161,193	56.1%	4723.2%	1695.7%	197.7%
61	60,285	2,107,940	110.9%	708	104,123	56.1%	8520.3%	2024.5%	197.7%
62	46,745	1,616,607	110.9%	265	66,053	56.1%	17611.9%	2447.4%	197.7%
63	37,795	1,281,727	110.9%	82	40,734	56.1%	45970.1%	3146.6%	197.7%
64	28,785	978,083	110.9%	19	51,261	56.1%	153681.1%	1908.1%	197.8%
65+	20,833	711,605	110.9%			56.1%			197.8%
PV Lifetime	746,823,313	828,158,481	110.9%	687,168,803	385,306,445	56.1%	108.7%	214.9%	197.8%

**Exhibit III**  
**Transamerica Premier Life Insurance Company**  
**Policy Forms: UniProduct Series**  
**Actual Nationwide Experience Through September 30, 2016**

Year	Earned Premium	Incurred Claims	Loss Ratios Excluding Change in ALR	
	Actual Past	Actual Past	Actual	PV Actual Cumulative
2002	49,825	0	0.0%	0.0%
2003	3,549,959	14,502	0.4%	0.4%
2004	13,829,757	534,169	3.9%	3.1%
2005	16,744,499	1,032,303	6.2%	4.6%
2006	14,353,633	737,623	5.1%	4.7%
2007	13,937,613	1,703,748	12.2%	6.3%
2008	13,590,424	1,372,396	10.1%	6.9%
2009	13,171,396	2,063,530	15.7%	8.0%
2010	12,867,006	4,542,291	35.3%	11.0%
2011	12,187,139	4,536,320	37.2%	13.4%
2012	11,910,853	6,263,642	52.6%	16.4%
2013	11,671,498	6,543,749	56.1%	19.1%
2014	11,076,773	8,765,820	79.1%	22.6%
2015	10,667,425	12,191,961	114.3%	27.2%
2016Q1-Q3	7,834,989	9,829,732	125.5%	30.6%
PV Past	117,759,363	36,067,653	30.6%	