Metropolitan Life Insurance Company 1300 Hall Boulevard, Bloomfield, CT 06002

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William P. Bigelow, FSA, MAAA

February 28, 2020

Maryland Department of Insurance

Re: Group long-term policy G.LTC 1697 (including G.LTC5398, G.LTC5498 in Maryland) Issued by Metropolitan Life Insurance Company (MetLife)

Attached is the filing for the captioned forms. This letter provides an overview of the filing and notes on some of the content. After a careful review of earlier filings, we have endeavored to reflect in this filing additional content based on previous questions submitted by your Department. Hopefully, this will make your review easier and more effective.

Filing Overview

In addition to this overview, this filing consists of the Actuarial Memorandum and Attachments on specific aspects of the Maryland Administrative Code as well as supporting data based on earlier reviews. These documents are outlined and summarized here for your convenience.

Title	Description			
Actuarial Memorandum	Lifetime Loss Ratio ("LLR")			
Exhibit I-A	• <i>Nationwide</i> experience			
	 Without/with proposed rate increase of 21% 			
	 Weighted average statutory rate 4.49% 			
	LLR without rate increase – 116.5%			
	LLR with rate increase – 112.9%			
Exhibit II-A	Demonstration of rate action meeting Rate Stability			
	(58/85) limitations			
Exhibit I-B	Lifetime Loss Ratio ("LLR")			
	• <i>Maryland</i> experience			
	 Without/with proposed rate increase of 21% 			
	 Weighted average statutory rate 4.49% 			
	LLR without rate increase – 116.7%			
	LLR with rate increase – 112.5%			
Exhibit II-B	Demonstration of rate action meeting Rate Stability			
	(58/85) limitations			
Review of Prior Correspondence	Attachment 1 – Assumptions Summary			
	Attachment 2 – A/E Ratios (Calendar Year)			
	Attachment 3 – A/E Ratios (Policy Duration)			
	Attachment 4 – A/E Ratios (Lapse, Mortality, Incidence,			
	Claim Termination)			

Rationale for the Rate Increase Request

Exhibit I demonstrates that the combination of historical and projected experience using the most recent Best Estimate assumptions (with or without a margin for adverse deviation) is clearly far beyond the expected loss ratio using the original pricing assumptions. Attachments 2 and 3 support the development of the experience by analyzing the Actual-to-Expected Ratios by Calendar Year and Policy Duration.

Attachment 1 compares the development of the changes in assumptions from the time of original pricing to the latest Experience Study. Generally, worse than expected morbidity and lower decrements are the primary reasons for the rate action.

Assumption Setting and Review

All projection assumptions are based on the Experience Study performed each year. In general, the assumptions used in all projections are those that reproduce historical experience within a non-material degree of tolerance. Attachment 4 shows the Actual-to-Expected Ratios comparing the latest Best Estimate assumptions with the set of actual experience for Lapse, Mortality, Incidence, and Claim Termination.

Some actuarial judgment is used in areas where credibility or trending requires adjustment. In any case, the methodology, results, conclusions and use are prescribed by MetLife internal Standards and Actuarial Standards of Practice and are reviewed and approved by MetLife management, internal auditors, and external auditors.

Additional Notes

MetLife requests the rate action based on deviations from anticipated experience outlined in the Actuarial Memorandum and the supporting attachments. Lifetime Loss Ratios exceed all minimum requirements in Maryland as well as the application of rate stability standards even at the full requested rate action. In addition, though Maryland-only experience is not necessarily credible, the Maryland LLR's still meet the standards above at the full rate action level.

Despite the rate action requested, the experience of the block does not fully return to pricing levels. We will continue, of course, to analyze and adjust experience assumptions and reserve the right to update those in the future along with requesting any resulting changes in premium rates.

The actuarial justification for experience analysis and projections, including assumptions and methods, are reflective of the Code of Professional Conduct and applicable Actuarial Standards of Practice. I am a Fellow of the Society of Actuaries and a Member of the American Academy of Actuaries, and I meet the Academy's qualification standards for preparing health rate filings and to render the actuarial opinion contained herein.

Thank you for your consideration. I look forward to hearing from you.

Sincerely,

William P. Bigelow, FSA, MAAA

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Vice President and Actuary, Metropolitan Life Insurance Company

New York, NY

Actuarial Memorandum for AARP Group Policy

February 28, 2020

This actuarial memorandum pertains to long-term care insurance provided under group policy issued to cover eligible members of the American Association of Retired Persons ("AARP") and their spouses who meet the eligibility requirements specified in the policy.

Policy Forms

The premium rate schedule increase for which we are seeking approval will apply to the following certificate forms approved by your Department and that were issued under the group long-term care policy G.LTC1697 (sitused in District of Columbia):

- G.LTC5398
- G.LTC5498

1. Purpose of Filing

This actuarial memorandum has been prepared for the purpose of demonstrating that the anticipated loss ratio standard of this product meets the minimum requirements of your state and may not be suitable for other purposes.

2. Description of Benefits

There are two options available: the Comprehensive Plan and the Facilities Plan. Both plans pay benefits up to a monthly benefit limit ("MBL") determined by the chosen Nursing Home daily benefit amount multiplied by the number of days in a given month (except for those plans that multiply by 30 days in February). There is no limit to benefits payable on a daily basis, except for Respite Care, which is subject to a daily benefit limit ("DBL").

Comprehensive Plan

There are five types of benefits covered under the Comprehensive Plan. These benefits are Nursing Home (and In-Patient Hospice care), Assisted Living Facility, Home Care (including Adult Day Care and At-Home Hospice care), Informal Care and Respite Care benefits.

I. Nursing Home Care

The benefit reimburses 100% of room and board charges in a Nursing Home, up to the MBL for Skilled, Intermediate, and Custodial Care. Also covered under the

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Nursing Home benefit are Hospice services and Bed reservation charges in a Nursing Home.

II. Assisted Living Facility Care

The benefit reimburses 100% of room and board charges in an Assisted Living Facility, up to the MBL for maintenance or personal care.

III. Home Care

The benefit will be paid for Home Care services and reimburses 100% of the charges from licensed providers, up to 50% or 80% of the MBL (as chosen by the insured). Covered under the Home Care benefit are services received from a Registered Nurse, Licensed Practical Nurse, Licensed Vocational Nurse, Home Health Aide, Homemaker, Physical, Occupational and Speech Therapist, Adult Day Care Centers, At-Home Hospice care, and Ongoing Care Advisory Services.

IV. Informal Home Care

The benefit will be paid for Informal Home Care Services provided from a family member or an unlicensed, private provider and reimburses 100% of the charges from informal caregivers, up to 50% of the Home Care monthly benefit limit (therefore, either 25% or 40% of the MBL).

V. Respite Care

The benefit will be paid for Respite Care Services provided at home or in a Nursing Home or Assisted Living Facility and reimburses 100% of the charges from licensed providers, up to a daily limit that varies according to the type of service received. Respite Care Benefits are limited to 21 days per calendar year.

Facilities Plan

There are three types of benefits covered under the Facilities Plan. These benefits are Nursing Home (and In-Patient Hospice care), Assisted Living Facility and Respite Care benefits.

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I. Nursing Home Care

The benefit reimburses 100% of room and board charges in a Nursing Home, up to the MBL for Skilled, Intermediate, and Custodial Care. Also covered under the Nursing Home benefit are Hospice services and Bed reservation charges in a Nursing Home.

II. Assisted Living Facility Care

The benefit reimburses 100% of room and board charges in an Assisted Living Facility, up to the MBL for maintenance or personal care.

III. Respite Care

The benefit will be paid for Respite Care Services provided in a Nursing Home or Assisted Living Facility and reimburses 100% of the charges from licensed providers, up to a daily limit that varies according to the type of service received. Respite Care Benefits are limited to 21 days per calendar year.

3. Renewability

These policy forms are guaranteed renewable for life.

4. Applicability

This filing is applicable to the group long-term care insurance certificates shown on the first page issued to AARP from June 1, 2000 to January 22, 2007 with a group policy situs within District of Columbia.

We will only implement a premium rate schedule increase for certificates issued to residents of your state after we have received approval from your Department. We will implement the amount of the increase approved by your Department irrespective of the amount of the increase approved by the District of Columbia (where the long-term care insurance policy issued to AARP was sitused). These policy forms are no longer being marketed to AARP members and spouses.

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5. Actuarial Assumptions

- a. Expected Claim Costs are the product of attained age frequency rates and continuance curves, adjusted by utilization factors and underwriting selection factors based on actual experience through June 30, 2018.
- b. <u>Voluntary Termination Rates</u> vary by duration as developed from actual experience through June 30, 2018 and are shown in the following table:

Voluntary Termination Rates

Policy Duration	Lapse Rate
1	5.50%
2	3.50%
3	2.50%
4	2.00%
5	1.50%
6	1.25%
7	0.90%
8	0.80%
9	0.80%
10	0.80%
11+	0.70%

In the year of rate increase implementation, it is assumed that there are no policy lapses and net reductions to premiums and benefits due to benefit downgrades. There is no adverse selection assumed due to the additional lapse rates.

- c. <u>Ultimate Mortality</u> is assumed to be 93% of Annuity 2000 Basic Table with selection consistent with experience.
- d. <u>Expenses</u> have not been explicitly projected. It is assumed that the originally filed expense assumptions remain appropriate.

The above assumptions are based on actual inforce experience of MetLife and are deemed reasonable for the group policy form, including certificate forms issued under such group policy. In establishing the assumptions described in this section, the policy design, underwriting, and claims adjudication practices for the above-referenced policy forms were taken into consideration.

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The assumptions described above were developed from the actual historical experience on these forms and supplemented, as needed, based on the experience of other forms. The projections contained in this actuarial memorandum are based on the best estimate assumptions, as described above, except the projections include a margin for moderately adverse experience equal to 10% of projected future incurred claims.

6. Marketing Method

These policy forms were issued to provide coverage to eligible AARP members and spouses. The primary method of marketing was direct mail.

7. Underwriting Description

Certain health information was required of applicants at the time of enrollment, including answering questions on the enrollment form regarding medical history, supplemented by contacting health care providers for medical records, as well as telephone and face-to-face interviews as needed.

8. Premiums

Premium rates varied based upon the age of the insured at issue and the particular benefit variations selected. If two or more members of the same household purchased coverage, a household discount was applied. The monthly EFT Premium was equal to the monthly premium less \$2.

9. Issue Age Range

The issue age is 18 and over.

10. Area Factors

Area factors are not used for this product.

11. Reserves

Active life reserves have not been used in this rate increase analysis. Claim reserves as of December 31, 2018 have been discounted to the incurral date of each respective claim and included in historical incurred claims. Incurred but not reported reserve balances as of December 31, 2018 have been allocated to a calendar year of incurral and included in historical incurred claims.

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12. Trend Assumptions

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

13. Past and Future Policy Experience

Nationwide experience and specific experience for those certificates issued in Maryland are shown in Exhibit I-A and Exhibit I-B, respectively.

Historical experience is shown by claim incurral year. Claim payments and reserves were discounted to the mid-point of the year of incurral at the weighted average maximum valuation interest rate for contract reserves which is 4.49%. Incurred but not reported reserves were allocated based on a historical analysis of claim development pattern.

Annual loss ratios are calculated, with and without interest, as incurred claims divided by earned premiums.

A lifetime loss ratio as of December 31, 2018 is calculated as the sum of accumulated past experience and discounted future experience where accumulation and discounting occur at the weighted average maximum valuation interest rate for contract reserves, which is 4.49%.

14. Projected Earned Premiums and Incurred Claims

Earned premiums for projection years 2019 through 2099 are developed by multiplying each prior period's earned premium (starting with December 31, 2018 actual earned premium) by a persistency factor. For a year in which the rate increase is effective, the earned premium prior to the increase is multiplied by 1 plus the rate increase percent and an effectiveness factor.

Incurred claims for each projection year combine the impact of incidence rates, claim continuance rates and utilization factors by the policy benefits on a seriatim basis.

Present and accumulated values in the lifetime projections in the exhibits (unless otherwise stated) are determined at the average maximum valuation interest rate for contract reserves applicable to LTC business issued in the years in which the applicable business of this filing were issued. The maximum valuation interest rate averages 4.49%.

The assumptions used in Exhibit I and II projections are developed from the company's LTC insurance experience, plus a 10% margin for moderately adverse experience.

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Projections in Exhibit II provide a demonstration that the sum of the accumulated value of incurred claims without the inclusion of active life reserves, and the present value of future projected incurred claims, without the inclusion of active life reserves, will not be less than the sum of the following:

- 1. Accumulated value of the initial earned premium times 58%;
- 2. 85% of the accumulated value of prior premium rate schedule increases;
- 3. Present value of future projected initial earned premium times 58%; and
- 4. 85% of the present value of future projected premium in excess of the projected initial earned premium.

15. History of Previous Inforce Rate Increases

Round	Authorized %	Authorization Date	Imple mentation Date
1	15.00%	10/10/2017	5/1/2018
2	7.06%	11/15/2018	6/1/2019

The experience and projections in Exhibit I have been restated to reflect a rate level similar to that authorized in Maryland on a nationwide basis.

16. Requested Rate Increase

The company is requesting a phased-in series of rate increases (two phases of 10.00% and 10.00%) resulting in a cumulative compounded increase of 21.00% after the final phase for the policy forms listed above. Although a larger premium rate increase is currently supportable under loss ratio regulation, MetLife agreed with AARP to reduce the impact on AARP members by seeking the rate increases shown above.

Corresponding rate tables reflecting each of the two phases for the 21.00% cumulative compounded increase are included with this filing. Please note that the actual rates implemented may vary slightly from those filed due to implementation rounding algorithms.

17. Analysis Performed

The initial premium schedule was based on pricing assumptions believed to be appropriate, given the information available at the time the initial rate schedule was developed. The original pricing assumptions for claim costs, voluntary termination rates, and mortality were as follows:

a. Incidence and continuance rates for nursing home care and home health care rates were based on studies from the 1985 National Nursing Home Survey and 1982-84 National

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Long Term Care Survey, respectively, with modifications to incorporate experience of other long-term care business that MetLife issued or administered, as well as to incorporate industry expectations.

- b. Voluntary termination rates by duration were assumed to be 11% in year one, grading down to 4.5% in year ten and thereafter.
- c. Mortality was based on the 1983 Group Annuity Mortality Table, adjusted to remove loading. These rates vary by age and sex.

As part of the inforce management of the business, MetLife monitors the performance of the business by completing periodic analyses of lapse rates, mortality rates, claim incidence rates, claim continuance rates and claim utilization rates. The findings from these analyses were used to determine the current experience assumptions on a best estimate basis. A margin for moderately adverse experience equal to 10% of projected future incurred claims was added to the best estimate assumptions. A model of this business was developed for use in the cash flow testing that is part of the company's annual statutory reporting requirements. Using this model, a future projection of these policies under the new moderately adverse assumptions was performed and the projected lifetime loss ratio for these policies was determined. For these policies, the past experience and future projections based on current moderately adverse assumptions, plus a margin for adverse deviation, combine to a resulting loss ratio that exceeds both original pricing expectations and state minimum requirements.

The experience analysis, management's view of when a change to the original rate schedule may be considered and the seriatim inforce and claim data used in developing the projections in Exhibit I and II have been relied upon by the actuary in the development of this memorandum.

18. Loss Ratio Requirement Compliance Demonstration

Projected experience assuming the increase is implemented is shown in the exhibits (unless otherwise stated). As shown in these exhibits, the expected lifetime loss ratio, with and without the requested rate increase, exceed the minimum requirements under rate stability regulations.

19. Average Annual Premium

The average September 30, 2019 annualized premiums for all premium-paying certificates sitused in Maryland, before and after the current requested increases are:

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Before increase:	\$2,063
After all prior authorized increases:	\$2,159
After current requested increase:	\$2,612

20. Proposed Effective Date

The rate increase will apply to certificateholders on the anniversary of their original coverage effective date, following at least a 60-day notification period after the increase is approved.

21. Nationwide Distribution of Business as of September 30, 2019 (based on premium-paying certificates inforce count)

By Issue Age:

Issue Age	Percent
<45	0%
45-49	1%
50-54	18%
55-59	25%
60-64	28%
65-69	19%
70-74	8%
75+	2%
Total	100%

By Benefit Period:

Benefit Period	Percent
4 Year	53%
Unlimited	47%
Total	100%

By Inflation Option:

Inflation	Percent
Optional	89%
Auto 5% Compound	11%
Total	100%

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By Home Care Percentage:

Home Care %	Percent
0% (FC Only)	21%
50%	68%
80%	11%
Total	100%

By Elimination Period:

Days	Percent
20	N/A
30	100%
45	N/A
60	N/A
90	N/A
Total	100%

By Gender:

Gender	Percent
Female	62%
Male	38%
Total	100%

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22. Number of Certificate holders

As of September 30, 2019, the number of premium-paying insured lives inforce and their premiums that will be affected by this increase are:

		ed Before Rate gulation Effective Date	Issued On or After Rate Stability Regulation Effective Date			
	Number of Insured	2019 Annualized Premium	Number of Insured	2019 Annualized Premium		
Certificates Issued in Maryland	485	\$1,104,402	636	\$1,207,923		
Nationwide	47,683	\$92,163,140	13,765	\$24,757,717		

23. Actuarial Certification

I am a Fellow of the Society of Actuaries and a Member of the American Academy of Actuaries, and I meet the Academy's qualification standards for preparing health rate filings and to render the actuarial opinion contained herein.

This memorandum has been prepared in conformity with all applicable Actuarial Standards of Practice, including ASOP No. 8. The projections contained in this actuarial memorandum are based on best estimate assumptions, plus a margin for moderately adverse experience. Moderately adverse conditions are interpreted as those conditions where aggregate experience deviates unfavorably from the aggregate best estimate experience assumptions, such that the value of the deviation is equal to 10% of projected future incurred claims or more, or other conditions that result in a similar lifetime loss ratio.

I hereby certify that, to the best of my knowledge and judgment, this rate submission is in compliance with the applicable laws and regulations of Maryland.

I further certify that:

- the analysis described in Section 17 of this memorandum was used in determining the need for a rate increase;
- the policy design, underwriting and claims adjudication practices have been reviewed and taken into consideration in this rate increase request;

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- the actuarial assumptions used are appropriate and the gross premiums bear reasonable relationship to the benefits; and
- the relationship between renewal premium rate schedules and new business premium rate schedules is not applicable because MetLife is no longer issuing new business on these policy forms.

William P. Bigelow, FSA, MAAA

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Vice President and Actuary, Metropolitan Life Insurance Company

Exhibit I-A Metropolitan Life Insurance Company Nationwide Experience Projections (Premium Normalized to Include Prior Authorized Increases) Group Policy Form: S.LTC.1697

		Group Policy Form: G.LT C.1697									rived from Projected Values for Illustrative Purposes Only					
	-	Without Interest		Loss F	tatio Demonst	ration	With Interest		Fact Premium	tors Derived for	rom Projected Valu	es for Illustrat Persistency		Only	Interest Ra Calendar Year	te Factors Mid-Year
	Calendar	Earned	Incurred	Loss	Life	Earned	Incurred	Loss	Rate Increase	Benefit	Policy	Persistency	Policy	Premium	Effective	Disc / Accum
	Year	Premium	Claims	Ratio	Years	Premium	Claims	Ratio	Factor	Downgrade	Lapse & Mortality	Shock Lapse	Persistency	Persistency	Int Rate	Factor
	1997	35,397		0.0%	151	91,046		0.0%							4.49%	2.5721
	1998 1999	2,709,668 13,625,336	68,198 1,239,998	2.5% 9.1%	3,784 17,805	6,669,962 32,097,505	167,873 2,921,090	2.5% 9.1%							4.49% 4.49%	2.4615 2.3557
	2000	33,643,817	3,791,849	11.3%	37,513	75,848,332	8,548,537	11.3%							4.49%	2.2545
	2001	56,040,100	9,151,971	16.3%	53,930	120,908,378	19,745,681	16.3%							4.49%	2.1575
	2002	73,045,895	15,491,137	21.2%	65,678	150,823,848	31,985,821	21.2%							4.49%	2.0648
	2003	93,280,952	21,121,512	22.6%	81,214	184,324,850	41,736,490	22.6%							4.49%	1.9760
	2004	110,414,946	27,600,772	25.0%	90,841	208,802,406	52,194,995	25.0%							4.49%	1.8911
Historical	2005	120,430,373	30,475,808	25.3%	92,413	217,951,760	55,154,326	25.3%							4.49%	1.8098
Experience	2006 2007	122,086,764 122,583,084	45,845,925 42,232,214	37.6% 34.5%	91,244 89,726	211,450,952 203,183,446	79,403,895 70,000,579	37.6% 34.5%							4.49% 4.49%	1.7320 1.6575
	2008	122,270,964	55,503,944	45.4%	87,660	193,953,594	88,043,710	45.4%							4.49%	1.5863
	2009	120,794,526	58,925,904	48.8%	85,783	183,374,297	89,453,526	48.8%							4.49%	1.5181
	2010	119,357,523	66,471,216	55.7%	83,614	173,403,445	96,569,848	55.7%							4.49%	1.4528
	2011	116,681,753	76,089,617	65.2%	81,442	162,228,661	105,791,320	65.2%							4.49%	1.3904
	2012	115,258,145	92,109,164	79.9%	79,470	153,360,311	122,558,714	79.9%							4.49%	1.3306
	2013	112,707,215 110,773,968	92,762,493 94,126,231	82.3% 85.0%	77,212 74,958	143,519,128 134 993 388	118,121,915 114,705,819	82.3% 85.0%							4.49% 4.49%	1.2734
	2014	107,963,580	99,254,143	91.9%	72,537	125,912,479	115,755,102	91.9%							4.49%	1.2180
	2015	104,984,586	128,059,965	122.0%	70,125	117,174,674	142,929,407	122.0%		1					4.49%	1.1161
	2017	103,870,010	138,859,601	133.7%	67,494	110,946,882	148,320,384	133.7%		1					4.49%	1.0681
	2018	99,056,531	144,761,038	146.1%	64,007	101,256,930	147,976,698	146.1%							4.49%	1.0222
Projected	2019	113,288,600	154,635,751	136.5%	63,191	110,826,742	151,275,384	136.5%	1.1586	N/A	0.0127	N/A		N/A	4.49%	0.9783
Future	2020	112,579,442	165,963,575	147.4%	62,330	105,398,436	155,377,401	147.4%	1.2247	N/A	0.0136	N/A		0.940	4.49%	0.9362
Experience	2021 2022	105,827,937 98,524,094	176,741,148 186,605,794	167.0% 189.4%	61,785 61,289	94,818,290 84,479,425	158,354,153 160,005,027	167.0% 189.4%	1.2303 1.2303	N/A N/A	0.0087	N/A N/A		0.936 0.931	4.49% 4.49%	0.8960 0.8574
	2022	98,524,094	195,525,347	214.3%	60,796	74.856.119	160,445,774	214.3%	1.2303	N/A N/A	0.0080	N/A N/A		0.931	4.49%	0.8206
	2024	83,872,790	203,251,731	242.3%	60,312	65,866,263	159,615,912	242.3%	1.2303	N/A	0.0080	N/A		0.919	4.49%	0.7853
	2025	76,630,658	209,663,209	273.6%	59,831	57,591,873	157,572,663	273.6%	1.2303	N/A	0.0080	N/A		0.914	4.49%	0.7516
	2026	69,627,458	214,674,198	308.3%	59,352	50,079,029	154,402,814	308.3%	1.2303	N/A	0.0080	N/A		0.909	4.49%	0.7192
	2027	62,895,301	218,124,080	346.8%	58,876	43,292,262	150,139,750	346.8%	1.2303	N/A	0.0080	N/A		0.903	4.49%	0.6883
	2028	56,482,268	219,927,550	389.4%	58,407	37,206,680	144,873,325	389.4%	1.2303	N/A	0.0080	N/A		0.898	4.49%	0.6587
	2029	50,407,126 44,684,961	220,045,876 218,439,550	436.5% 488.8%	57,938 57,472	31,777,333 26,958,989	138,719,892 131,787,280	436.5% 488.8%	1.2303 1.2303	N/A N/A	0.0080	N/A N/A		0.892 0.886	4.49% 4.49%	0.6304 0.6033
	2031	39,340,455	215,176,028	547.0%	56,983	22,714,245	124,237,534	547.0%	1.2303	N/A	0.0085	N/A		0.880	4.49%	0.5774
	2032	34,399,053	210,284,848	611.3%	56,481	19,007,375	116,193,981	611.3%	1.2303	N/A	0.0088	N/A		0.874	4.49%	0.5526
	2033	29,855,507	203,935,680	683.1%	55,940	15,787,626	107,841,416	683.1%	1.2303	N/A	0.0096	N/A	0.990	0.868	4.49%	0.5288
	2034	25,702,008	196,186,945	763.3%	55,313	13,006,970	99,283,982	763.3%	1.2303	N/A	0.0112	N/A		0.861	4.49%	0.5061
	2035	21,948,167	187,063,757	852.3%	54,638	10,629,774	90,597,341	852.3%	1.2303	N/A	0.0122	N/A		0.854	4.49%	0.4843
	2036	18,586,804 15,602,958	176,618,410 165,173,082	950.2% 1058.6%	53,863 52,963	8,614,840 6,920,957	81,861,271 73,265,328	950.2% 1058.6%	1.2303	N/A N/A	0.0142 0.0167	N/A N/A		0.847	4.49% 4.49%	0.4635
	2037	12,976,272	152,905,779	1178.3%	51,920	5,508,405	64,908,241	1178.3%	1.2303	N/A N/A	0.0197	N/A N/A		0.839	4.49%	0.4436
	2039	10.692.522	140,044,142	1309.7%	50.676	4.343.830	56,892,839	1309.7%	1.2303	N/A	0.0240	N/A		0.824	4.49%	0.4062
	2040	8,729,786	126,862,019	1453.2%	49,239	3,394,009	49,322,035	1453.2%	1.2303	N/A	0.0284	N/A	0.972	0.816	4.49%	0.3888
	2041	7,059,285	113,575,442	1608.9%	47,739	2,626,557	42,258,154	1608.9%	1.2303	N/A	0.0305	N/A		0.809	4.49%	0.3721
	2042	5,651,554	100,520,009	1778.6%	46,070	2,012,383	35,792,771	1778.6%	1.2303	N/A	0.0350	N/A		0.801	4.49%	0.3561
	2043	4,476,916	87,970,255	1965.0%	44,192	1,525,592	29,977,497	1965.0%	1.2303	N/A	0.0407	N/A		0.792	4.49%	0.3408
	2044 2045	3,507,925 2,717,914	76,099,449 65,065,181	2169.4% 2393.9%	42,096 39,705	1,144,001 848,259	24,817,484 20,306,805	2169.4% 2393.9%	1.2303 1.2303	N/A N/A	0.0474 0.0568	N/A N/A		0.784 0.775	4.49% 4.49%	0.3261 0.3121
	2045	2,080,467	54,981,732	2642.8%	37,125	621,399	16,422,077	2642.8%	1.2303	N/A	0.0500	N/A		0.775	4.49%	0.3121
	2047	1,573,356	45,914,227	2918.2%	34,332	449,731	13,124,225	2918.2%	1.2303	N/A	0.0752	N/A		0.756	4.49%	0.2858
	2048	1,174,597	37,860,620	3223.3%	31,243	321,316	10,356,925	3223.3%	1.2303	N/A	0.0900	N/A	0.910	0.747	4.49%	0.2736
	2049	865,121	30,807,091	3561.0%	28,224	226,484	8,065,114	3561.0%	1.2303	N/A	0.0966	N/A		0.737	4.49%	0.2618
	2050	627,548	24,703,772	3936.6%	25,392	157,226	6,189,275	3936.6%	1.2303	N/A	0.1003	N/A		0.725	4.49%	0.2505
	2051	447,902	19,486,404	4350.6%	22,694	107,393	4,672,238	4350.6%	1.2303	N/A	0.1062	N/A		0.714	4.49%	0.2398
	2052 2053	314,169 216,252	15,104,886 11,469,984	4807.9% 5304.0%	19,934 17,144	72,090 47,488	3,465,991 2,518,776	4807.9% 5304.0%	1.2303	N/A N/A	0.1216 0.1400	N/A N/A		0.701 0.688	4.49% 4.49%	0.2295 0.2196
	2053	145,986	8,506,108	5826.7%	14,699	30,680	1,787,616	5826.7%	1.2303	N/A	0.1426	N/A		0.675	4.49%	0.2102
	2055	96,262	6,147,354	6386.1%	12,544	19,360	1,236,370	6386.1%	1.2303	N/A	0.1466	N/A		0.659	4.49%	0.2011
	2056	61,997	4,319,699	6967.6%	10,390	11,933	831,439	6967.6%	1.2303	N/A	0.1717	N/A	0.828	0.644	4.49%	0.1925
	2057	39,063	2,959,602	7576.5%	7,952	7,195	545,164	7576.5%	1.2303	N/A	0.2347	N/A	0.765	0.630	4.49%	0.1842
	2058	24,167	1,964,241	8127.6%	5,908	4,260	346,262	8127.6%	1.2303	N/A	0.2570	N/A		0.619	4.49%	0.1763
	2059	14,803	1,269,126	8573.2%	4,179	2,497	214,107	8573.2%	1.2303	N/A	0.2927	N/A		0.613	4.49%	0.1687
	2060 2061	9,093 5.737	799,993 493,508	8797.9% 8602.3%	2,823 1,844	1,468 886	129,161 76,253	8797.9% 8602.3%	1.2303 1.2303	N/A N/A	0.3246 0.3467	N/A N/A		0.614 0.631	4.49% 4.49%	0.1615 0.1545
	2061	5,737 3.835	493,508 310,467	8602.3%	1,844	567	76,253 45.908	8602.3% 8094.8%	1.2303	N/A N/A	0.3467	N/A N/A		0.631	4.49% 4.49%	0.1545 0.1479
	2063	2,782	199,588	7173.8%	548	394	28,244	7173.8%	1.2303	N/A	0.4830	N/A		0.725	4.49%	0.1415
	2064	2,186	132,767	6073.1%	262	296	17,980	6073.1%	1.2303	N/A	0.5215	N/A	0.478	0.786	4.49%	0.1354
	2065	1,829	91,032	4977.3%	146	237	11,798	4977.3%	1.2303	N/A	0.4424	N/A	0.558	0.837	4.49%	0.1296
	2066	1,605	64,239	4001.4%	87	199	7,968	4001.4%	1.2303	N/A	0.4071	N/A		0.878	4.49%	0.1240
	2067	1,454	47,080	3237.6%	54	173	5,588	3237.6%	1.2303	N/A	0.3736	N/A		0.906	4.49%	0.1187
	2068	1,351	33,933	2512.1%	37	153 139	3,855	2512.1%	1.2303	N/A N/A	0.3183	N/A N/A		0.929	4.49% 4.49%	0.1136
	2069 2070+	1,281 15,485	25,115 52,856	1961.3% 341.3%	20 16	139 1,611	2,730 5,499	1961.3% 341.3%	1.2303 1.2303	N/A N/A	0.4469	N/A N/A		0.948 N/A	4.49% 4.49%	0.1087 0.1040
	20/07	15,405	J2,030	J=1.370	10	1,011	5,488	341.370	1.2303	IN/A	0.2036	IN/A	0.794	NA	4.4970	0.1040
	Past	1,981,615,135	1,243,942,700	62.8%	1,468,601	3,012,276,273	1,652,085,728	54.8%								
	Future	1,215,018,617	4,868,824,258	400.7%	1,758,052	903,321,443	2,910,236,615	322.2%								
	Lifetime	3,196,633,752	6,112,766,958	191.2%	3,226,653	3,915,597,716	4,562,322,343	116.5%								

Lifetime 3,190,033,702 v,112,703,902 1911.279 3,222,003 1910.0031,110 9,002,

Exhibit I-A Metropolitan Life insurance Company Nationwide Experience Projections (Premium Normalized to include Prior Authorized increases) and With 21% Future Increase Group Policy Form: G.LTC.1697

							Group Policy	romi. G.LTC	.1697							
				Loss R	atio Demonstr				Fact	ors Derived for	rom Projected Values for	or Illustrativ	ve Purposes C	nly	Interest Ra	
-	Calendar	Farned	/ithout Interest Incurred	Loss	Life	Farned	With Interest Incurred	Loss	Premium Rate Increase	Benefit		Persistency F Policy	-actors Policy	Premium	Calendar Year Effective	Mid-Year Disc / Accum
	Year	Premium	Claims	Ratio	Years	Premium	Claims	Ratio	Factor	Downgrade		ock Lapse	Persistency	Persistency	Int Rate	Factor
	1997	35,397		0.0%	151	91,046		0.0%							4.49%	2.5721
	1998 1999	2,709,668 13.625.336	68,198 1,239,998	2.5% 9.1%	3,784 17.805	6,669,962 32.097.505	167,873 2.921.090	2.5% 9.1%							4.49% 4.49%	2.4615 2.3557
	2000	33.643.817	3,791.849	11.3%	37.513	75 848 332	8.548.537	11.3%							4.49%	2.3557
	2001	56,040,100	9,151,971	16.3%	53,930	120,908,378	19,745,681	16.3%							4.49%	2.1575
	2002	73,045,895	15,491,137	21.2%	65,678	150,823,848	31,985,821	21.2%							4.49%	2.0648
	2003	93,280,952	21,121,512	22.6%	81,214	184,324,850	41,736,490	22.6%							4.49%	1.9760
Historical	2004 2005	110,414,946 120,430,373	27,600,772 30,475,808	25.0% 25.3%	90,841 92,413	208,802,406 217,951,760	52,194,995 55,154,326	25.0% 25.3%							4.49% 4.49%	1.8911
Experience	2005	122,430,373	45 845 925	37.6%	92,413	211 450 952	79 403 895	37.6%							4.49%	1.7320
	2007	122,583,084	42,232,214	34.5%	89,726	203,183,446	70,000,579	34.5%							4.49%	1.6575
	2008	122,270,964	55,503,944	45.4%	87,660	193,953,594	88,043,710	45.4%							4.49%	1.5863
	2009	120,794,526	58,925,904	48.8%	85,783	183,374,297	89,453,526	48.8%							4.49%	1.5181
	2010 2011	119,357,523 116,681,753	66,471,216 76,089,617	55.7% 65.2%	83,614 81,442	173,403,445 162,228,661	96,569,848 105,791,320	55.7% 65.2%							4.49% 4.49%	1.4528 1.3904
	2012	115,258,145	92,109,164	79.9%	79,470	153,360,311	122,558,714	79.9%							4.49%	1.3306
	2013	112,707,215	92,762,493	82.3%	77,212	143,519,128	118,121,915	82.3%							4.49%	1.2734
	2014	110,773,968	94,126,231	85.0%	74,958	134,993,388	114,705,819	85.0%							4.49%	1.2186
	2015	107,963,580	99,254,143	91.9%	72,537	125,912,479	115,755,102	91.9%							4.49%	1.1662
	2016	104,984,586 103,870,010	128,059,965 138,859,601	122.0% 133.7%	70,125 67,494	117,174,674 110,946,882	142,929,407 148,320,384	122.0% 133.7%			1				4.49% 4.49%	1.1161 1.0681
	2017	99,056,531	144,761,038	146.1%	64,007	101,256,930	147,976,698	146.1%			1				4.49%	1.0081
Projected	2019	113,288,600	154,635,751	136.5%	63,191	110,826,742	151,275,384	136.5%	1.1586	1.0000	0.0127	1.0000	0.987	N/A	4.49%	0.9783
Future	2020	112,579,442	165,963,575	147.4%	62,330	105,398,436	155,377,401	147.4%	1.2247	1.0000	0.0136	1.0000	0.986	0.940	4.49%	0.9362
Experience	2021 2022	111,560,284 114,246,897	176,741,148 186,605,794	158.4% 163.3%	61,785 61,289	99,954,281 97,960,933	158,354,153 160,005,027	158.4% 163.3%	1.2970 1.4267	1.0000 1.0000	0.0087 0.0080	1.0000	0.991 0.992	0.936 0.931	4.49% 4.49%	0.8960 0.8574
	2022	110,379,255	195,525,347	177.1%	60,796	90,575,904	160,445,774	177.1%	1.4887	1.0000	0.0080	1.0000	0.992	0.931	4.49%	0.8206
	2024	101,486,076	203,251,731	200.3%	60,312	79,698,178	159,615,912	200.3%	1.4887	1.0000	0.0080	1.0000	0.992	0.919	4.49%	0.7853
	2025	92,723,097	209,663,209	226.1%	59,831	69,686,166	157,572,663	226.1%	1.4887	1.0000	0.0080	1.0000	0.992	0.914	4.49%	0.7516
	2026	84,249,224	214,674,198	254.8%	59,352	60,595,625	154,402,814	254.8%	1.4887	1.0000	0.0080	1.0000	0.992	0.909	4.49%	0.7192
	2027 2028	76,103,315 68 343 545	218,124,080 219,927,550	286.6% 321.8%	58,876 58,407	52,383,637 45,020,083	150,139,750 144 873 325	286.6% 321.8%	1.4887	1.0000	0.0080 0.0080	1.0000	0.992	0.903	4.49% 4.49%	0.6883
	2029	60,992,623	220,045,876	360.8%	57,938	38,450,573	138,719,892	360.8%	1.4887	1.0000	0.0080	1.0000	0.992	0.892	4.49%	0.6304
	2030	54,068,803	218,439,550	404.0%	57,472	32,620,377	131,787,280	404.0%	1.4887	1.0000	0.0080	1.0000	0.992	0.886	4.49%	0.6033
	2031	47,601,950	215,176,028	452.0%	56,983	27,484,237	124,237,534	452.0%	1.4887	1.0000	0.0085	1.0000	0.991	0.880	4.49%	0.5774
	2032	41,622,854	210,284,848	505.2%	56,481	22,998,923	116,193,981	505.2%	1.4887	1.0000	0.0088	1.0000	0.991	0.874	4.49%	0.5526
	2033 2034	36,125,163 31,099,429	203,935,680 196,186,945	564.5% 630.8%	55,940 55,313	19,103,027 15,738,433	107,841,416 99,283,982	564.5% 630.8%	1.4887 1.4887	1.0000	0.0096 0.0112	1.0000	0.990 0.989	0.868 0.861	4.49% 4.49%	0.5288 0.5061
	2035	26,557,282	187,063,757	704.4%	54,638	12,862,027	90,597,341	704.4%	1.4887	1.0000	0.0122	1.0000	0.988	0.854	4.49%	0.4843
	2036	22,490,033	176,618,410	785.3%	53,863	10,423,957	81,861,271	785.3%	1.4887	1.0000	0.0142	1.0000	0.986	0.847	4.49%	0.4635
	2037	18,879,579	165,173,082	874.9%	52,963	8,374,358	73,265,328	874.9%	1.4887	1.0000	0.0167	1.0000	0.983	0.839	4.49%	0.4436
	2038 2039	15,701,289 12,937,952	152,905,779 140,044,142	973.8% 1082.4%	51,920 50,676	6,665,170 5,256,034	64,908,241 56,892,839	973.8% 1082.4%	1.4887 1.4887	1.0000	0.0197 0.0240	1.0000	0.980 0.976	0.832 0.824	4.49% 4.49%	0.4245 0.4062
	2040	10,563,041	126,862,019	1201.0%	49,239	4,106,751	49,322,035	1201.0%	1.4887	1.0000	0.0240	1.0000	0.970	0.824	4.49%	0.4002
	2041	8,541,735	113,575,442	1329.7%	47,739	3,178,134	42,258,154	1329.7%	1.4887	1.0000	0.0305	1.0000	0.970	0.809	4.49%	0.3721
	2042	6,838,380	100,520,009	1469.9%	46,070	2,434,983	35,792,771	1469.9%	1.4887	1.0000	0.0350	1.0000	0.965	0.801	4.49%	0.3561
	2043	5,417,068	87,970,255	1623.9%	44,192	1,845,967	29,977,497	1623.9%	1.4887	1.0000	0.0407	1.0000	0.959	0.792	4.49%	0.3408
	2044	4,244,589 3,288,676	76,099,449 65.065.181	1792.9% 1978.5%	42,096 39,705	1,384,242 1.026,394	24,817,484 20,306,805	1792.9% 1978.5%	1.4887	1.0000	0.0474	1.0000	0.953	0.784	4.49% 4.49%	0.3261 0.3121
	2046	2,517,365	54,981,732	2184.1%	37,125	751,893	16,422,077	2184.1%	1.4887	1.0000	0.0650	1.0000	0.935	0.765	4.49%	0.2987
	2047	1,903,760	45,914,227	2411.8%	34,332	544,175	13,124,225	2411.8%	1.4887	1.0000	0.0752	1.0000	0.925	0.756	4.49%	0.2858
	2048	1,421,263	37,860,620	2663.9%	31,243	388,792	10,356,925	2663.9%	1.4887	1.0000	0.0900	1.0000	0.910	0.747	4.49%	0.2736
	2049 2050	1,046,797 759,333	30,807,091 24,703,772	2943.0% 3253.4%	28,224 25,392	274,045 190,243	8,065,114 6.189.275	2943.0% 3253.4%	1.4887	1.0000	0.0966 0.1003	1.0000	0.903	0.737 0.725	4.49% 4.49%	0.2618 0.2505
	2050	759,333 541,961	19,486,404	3595.5%	22,694	129,946	4,672,238	3595.5%	1.4887	1.0000	0.1003	1.0000	0.894	0.725	4.49%	0.2398
	2052	380,145	15,104,886	3973.5%	19,934	87,229	3,465,991	3973.5%	1.4887	1.0000	0.1216	1.0000	0.878	0.701	4.49%	0.2295
	2053	261,665	11,469,984	4383.5%	17,144	57,461	2,518,776	4383.5%	1.4887	1.0000	0.1400	1.0000	0.860	0.688	4.49%	0.2196
	2054	176,643	8,506,108	4815.4%	14,699	37,123	1,787,616	4815.4%	1.4887	1.0000	0.1426	1.0000	0.857	0.675	4.49%	0.2102
	2055 2056	116,477 75,017	6,147,354 4 319 699	5277.7% 5758.3%	12,544 10,390	23,426 14 439	1,236,370 831 439	5277.7% 5758.3%	1.4887	1.0000	0.1466 0.1717	1.0000	0.853	0.659 0.644	4.49% 4.49%	0.2011
	2057	47,266	2,959,602	6261.6%	7,952	8,706	545,164	6261.6%	1.4887	1.0000	0.2347	1.0000	0.765	0.630	4.49%	0.1842
	2058	29,243	1,964,241	6717.0%	5,908	5,155	346,262	6717.0%	1.4887	1.0000	0.2570	1.0000	0.743	0.619	4.49%	0.1763
	2059	17,912	1,269,126	7085.3%	4,179	3,022	214,107	7085.3%	1.4887	1.0000	0.2927	1.0000	0.707	0.613	4.49%	0.1687
	2060 2061	11,003 6,942	799,993 493,508	7271.0% 7109.4%	2,823 1,844	1,776 1,073	129,161 76,253	7271.0% 7109.4%	1.4887 1.4887	1.0000	0.3246 0.3467	1.0000	0.675 0.653	0.614 0.631	4.49% 4.49%	0.1615 0.1545
	2061	6,942 4,641	493,508 310,467	7109.4% 6689.9%	1,844	1,073	76,253 45,908	7109.4% 6689.9%	1.4887	1.0000	0.3467	1.0000	0.653	0.631	4.49% 4.49%	0.1545
	2063	3,366	199,588	5928.8%	548	476	28,244	5928.8%	1.4887	1.0000	0.4830	1.0000	0.517	0.725	4.49%	0.1415
	2064	2,645	132,767	5019.1%	262	358	17,980	5019.1%	1.4887	1.0000	0.5215	1.0000	0.478	0.786	4.49%	0.1354
	2065	2,213	91,032	4113.5%	146	287	11,798	4113.5%	1.4887	1.0000	0.4424	1.0000	0.558	0.837	4.49%	0.1296
	2066 2067	1,943 1,760	64,239 47,080	3306.9% 2675.7%	87 54	241 209	7,968 5.588	3306.9% 2675.7%	1.4887	1.0000	0.4071 0.3736	1.0000	0.593	0.878	4.49% 4.49%	0.1240 0.1187
	2067	1,760	33,933	2076.1%	37	186	3,855	2075.7%	1.4887	1.0000	0.3736	1.0000	0.682	0.906	4.49%	0.1187
	2069	1,549	25,115	1620.9%	20	168	2,730	1620.9%	1.4887	1.0000	0.4469	1.0000	0.553	0.948	4.49%	0.1087
ļ	2070+	18,737	52,856	282.1%	16	1,949	5,499	282.1%	1.4887	1.0000	0.2058	1.0000	0.794	N/A	4.49%	0.1040
		1.981.615.135	1,243,942,700	62.8%	1,468,601	3,012,276,273	1,652,085,728	54.8%								
f	Past															
	Past Future Lifetime	1,401,281,461 3,382,896,596	4,868,824,258 6,112,766,958	347.5% 180.7%	1,758,052 3,226,653	1,028,576,637 4,040,852,910	2,910,236,615 4,562,322,343	282.9% 112.9%								

Lifetime 3,382,989,596 b;112/769,988 180/7% 3,226,653 4,040,952,910 4,562,322,343 112.

The premiums shown in this exhibit are normalized to reflect prior rate inreases authorized by Maryland rather than that authorized by other states. The projections are based on the assumptions derived using experience data through June 30, 2018 includes certificate forms GLTC5398 and GLTC5498 issued under group policy GLTC.1697

The current requested increase of 21% is assumed to be implemented over two phases

Exhibit II-A

Demonstration that Lifetime Incurred Claims with Requested Increase are Not Less than Lifetime Earned Premium with Prescribed Factors Group Policy Form: G.LTC.1697

Accumulated value of initial earned premium	3,008,684,479	x	58%	=	1,745,036,998
2a Accumulated value of earned premium 2b Accumulated value of prior premium rate schedule increases (2a-1)	3,012,276,273 3,591,793	х	85%	=	3,053,024
3 Present value of future projected initial earned premium	740,177,322	x	58%	=	429,302,847
4a Present value of future projected premium 4b Present value of future projected premium in excess of the projected initial earned premiums (4a-3)	1,028,576,637 288,399,315	х	85%	=	245,139,418
5 Lifetime Earned Premium Times Prescribed Factor: Sum of 1, 2b, 3, and 4b					2,422,532,287
6a Accumulated value of incurred claims without the inclusion of active life reserves 6b Present value of future projected incurred claims without the inclusion of active life reserves					1,652,085,728 2,910,236,615
7 Lifetime Incurred Claims with Rate Increase: Sum of 6a and 6b					4,562,322,343
8 Test: 7 is not less than 5					TRUE

Exhibit I-B Metropolitan Life insurance Company Maryland Experience Projections (Premium Normalized to Include Prior Authorized Increases) Group Policy Form: G.LTC.1697

							Group Policy	Form: G.LTC	3.1697							
				Loss Ra	atio Demonst	ration				tors Derived f	rom Projected Value			nly	Interest Ra	
	Calendar	Farned	ithout Interest Incurred	Loss	Life	Farned	With Interest Incurred	Loss	Premium Rate Increase	Benefit	Policy	Persistency I Policy	Factors Policy	Premium	Calendar Year Effective	Mid-Year Disc / Accum
	Year	Premium	Claims	Ratio	Years	Premium	Claims	Ratio	Factor	Downgrade		Shock Lapse	Persistency	Persistency	Int Rate	Factor
	1997 1998	-	-	N/A N/A	-	-	-	N/A N/A							4.49% 4.49%	2.5721 2.4615
	1998	-	-	N/A N/A	1	-	-	N/A N/A							4.49%	2.4615
	2000	89,918	-	0.0%	334	202,716	-	0.0%							4.49%	2.2545
	2001	645,355	2,310	0.4%	686	1,392,374	4,984	0.4%							4.49%	2.1575
	2002 2003	939,193 1,389,084	352,569	0.0% 25.4%	920 1,280	1,939,229 2,744,856	696,683	0.0% 25.4%							4.49% 4.49%	2.0648 1.9760
	2004	1,756,640	146,966	8.4%	1,496	3,321,929	277,922	8.4%							4.49%	1.8911
Historical	2005 2006	2,110,460	866,762	41.1% 19.7%	1,631	3,819,455	1,568,643	41.1% 19.7%							4.49% 4.49%	1.8098
Experience	2006	2,199,641 2,210,588	433,169 544,347	24.6%	1,602 1,563	3,809,718 3,664,086	750,237 902,264	24.6%							4.49%	1.7320 1.6575
	2008	2,210,943	399,639	18.1%	1,532	3,507,131	633,932	18.1%							4.49%	1.5863
	2009	2,190,443	752,040	34.3% 35.5%	1,499	3,325,241	1,141,648	34.3%							4.49%	1.5181
	2010	2,159,749 2,120,298	767,254 869,659	35.5% 41.0%	1,464 1.427	3,137,698 2,947,960	1,114,672 1,209,132	35.5% 41.0%							4.49% 4.49%	1.4528 1.3904
	2012	2,123,273	1,404,042	66.1%	1,400	2,825,187	1,868,192	66.1%							4.49%	1.3306
	2013	2,105,771	2,040,567	96.9%	1,379	2,681,446	2,598,417	96.9%							4.49%	1.2734
	2014 2015	2,114,464 2,071,141	1,848,808 1,750,816	87.4% 84.5%	1,352 1,315	2,576,767 2,415,467	2,253,029 2,041,889	87.4% 84.5%							4.49% 4.49%	1.2186 1.1662
	2016	2,010,712	2,617,667	130.2%	1,278	2,244,183	2,921,613	130.2%							4.49%	1.1161
	2017	2,021,940	1,440,749	71.3%	1,239	2,159,699	1,538,910	71.3%							4.49%	1.0681
Projected	2018 2019	1,988,038 2,225,883	2,022,305 2,606,434	101.7% 117.1%	1,170	2,032,199 2,177,513	2,067,227 2,549,794	101.7% 117.1%	1.1586	N/A	0.0128	N/A	0.987	N/A	4.49% 4.49%	1.0222 0.9783
Future	2020	2,226,529	2,843,269	127.7%	1,139	2,084,508	2,661,908	127.7%	1.2247	N/A	0.0137	N/A	0.986	0.946	4.49%	0.9362
Experience	2021	2,106,737	3,074,191	145.9%	1,129	1,887,566	2,754,373	145.9%	1.2303	N/A	0.0088	N/A	0.991	0.942	4.49%	0.8960
	2022 2023	1,974,784 1.841.225	3,294,934 3,507,395	166.9% 190.5%	1,120 1,111	1,693,277 1,510,887	2,825,239 2,878,127	166.9% 190.5%	1.2303 1.2303	N/A N/A	0.0081	N/A N/A	0.992 0.992	0.937 0.932	4.49% 4.49%	0.8574 0.8206
	2024	1,705,448	3,704,705	217.2%	1,102	1,339,308	2,909,348	217.2%	1.2303	N/A	0.0080	N/A	0.992	0.926	4.49%	0.7853
	2025	1,569,565	3,886,215	247.6%	1,093	1,179,609	2,920,690	247.6%	1.2303	N/A	0.0081	N/A	0.992	0.920	4.49%	0.7516
	2026 2027	1,436,605 1,307,257	4,047,245 4,187,521	281.7% 320.3%	1,084 1.076	1,033,268 899,815	2,910,951 2,882,365	281.7% 320.3%	1.2303 1.2303	N/A N/A	0.0080	N/A N/A	0.992 0.992	0.915 0.910	4.49% 4.49%	0.7192 0.6883
	2028	1,182,484	4,296,464	363.3%	1,067	778,940	2,830,219	363.3%	1.2303	N/A	0.0080	N/A	0.992	0.905	4.49%	0.6587
	2029	1,062,855	4,374,701	411.6%	1,059	670,038	2,757,871	411.6%	1.2303	N/A	0.0080	N/A	0.992	0.899	4.49%	0.6304
	2030 2031	948,770 840,942	4,413,782 4,415,962	465.2% 525.1%	1,050 1,042	572,405 485,540	2,662,889 2,549,672	465.2% 525.1%	1.2303 1.2303	N/A N/A	0.0080	N/A N/A	0.992 0.992	0.893 0.886	4.49% 4.49%	0.6033 0.5774
	2032	740,042	4,376,595	591.4%	1,033	408,914	2,418,310	591.4%	1.2303	N/A	0.0088	N/A	0.991	0.880	4.49%	0.5526
	2033	646,158	4,296,112	664.9%	1,024	341,689	2,271,789	664.9%	1.2303	N/A	0.0080	N/A	0.992	0.873	4.49%	0.5288
	2034 2035	559,487 480,350	4,175,332 4,017,193	746.3% 836.3%	1,015 1,006	283,138 232,640	2,113,003 1,945,577	746.3% 836.3%	1.2303 1.2303	N/A N/A	0.0089	N/A N/A	0.991 0.990	0.866 0.859	4.49% 4.49%	0.5061 0.4843
	2036	408,802	3,825,195	935.7%	992	189,477	1,772,949	935.7%	1.2303	N/A	0.0139	N/A	0.986	0.851	4.49%	0.4635
	2037	344,688	3,604,942	1045.9%	980	152,892	1,599,033	1045.9%	1.2303	N/A	0.0114	N/A	0.989	0.843	4.49%	0.4436
	2038 2039	287,809 238,091	3,361,913 3,102,342	1168.1% 1303.0%	967 947	122,174 96,724	1,427,126 1,260,324	1168.1% 1303.0%	1.2303 1.2303	N/A N/A	0.0140 0.0201	N/A N/A	0.986 0.980	0.835 0.827	4.49% 4.49%	0.4245 0.4062
	2040	195,125	2,833,416	1452.1%	919	75,862	1,101,589	1452.1%	1.2303	N/A	0.0298	N/A	0.970	0.820	4.49%	0.3888
	2041	158,338	2,561,259	1617.6%	895	58,913	952,971	1617.6%	1.2303	N/A	0.0259	N/A	0.974	0.811	4.49%	0.3721
	2042 2043	127,164 101,046	2,282,929 2,013,637	1795.3% 1992.8%	871 845	45,280 34,433	812,896 686.184	1795.3% 1992.8%	1.2303 1.2303	N/A N/A	0.0271 0.0294	N/A N/A	0.973 0.971	0.803 0.795	4.49% 4.49%	0.3561 0.3408
	2043	79,400	1,754,437	2209.6%	813	25,894	572,155	2209.6%	1.2303	N/A	0.0383	N/A	0.962	0.786	4.49%	0.3261
	2045	61,662	1,508,610	2446.6%	779	19,245	470,836	2446.6%	1.2303	N/A	0.0419	N/A	0.958	0.777	4.49%	0.3121
	2046 2047	47,302 35,853	1,281,484 1,074,358	2709.2% 2996.5%	738 695	14,128 10,248	382,757 307,097	2709.2% 2996.5%	1.2303 1.2303	N/A N/A	0.0526 0.0579	N/A N/A	0.947 0.942	0.767 0.758	4.49% 4.49%	0.2987 0.2858
	2048	26,819	888,589	3313.2%	643	7,337	243,077	3313.2%	1.2303	N/A	0.0751	N/A	0.925	0.748	4.49%	0.2736
	2049	19,782	725,087	3665.4%	589	5,179	189,824	3665.4%	1.2303	N/A	0.0836	N/A	0.916	0.738	4.49%	0.2618
	2050 2051	14,360 10,243	583,457 462,684	4063.1% 4516.9%	540 492	3,598 2,456	146,179 110,937	4063.1% 4516.9%	1.2303 1.2303	N/A N/A	0.0833	N/A N/A	0.917 0.910	0.726 0.713	4.49% 4.49%	0.2505 0.2398
	2052	7,176	360,483	5023.5%	439	1,647	82,717	5023.5%	1.2303	N/A	0.1075	N/A	0.892	0.701	4.49%	0.2295
	2053	4,930	276,441	5607.2%	376	1,083	60,706	5607.2%	1.2303	N/A	0.1440	N/A	0.856	0.687	4.49%	0.2196
	2054 2055	3,324 2.201	206,870 151,441	6223.7% 6881.9%	316 261	699 443	43,475 30,458	6223.7% 6881.9%	1.2303 1.2303	N/A N/A	0.1594 0.1734	N/A N/A	0.841 0.827	0.674 0.662	4.49% 4.49%	0.2102 0.2011
	2056	1,425	108,065	7583.2%	206	274	20,800	7583.2%	1.2303	N/A	0.2091	N/A	0.827	0.648	4.49%	0.1925
	2057	901	73,995	8213.2%	164	166	13,630	8213.2%	1.2303	N/A	0.2039	N/A	0.796	0.632	4.49%	0.1842
	2058 2059	554 329	48,824 30.673	8820.4% 9321.2%	123 94	98 56	8,607 5.175	8820.4% 9321.2%	1.2303 1.2303	N/A N/A	0.2528 0.2342	N/A N/A	0.747 0.766	0.614 0.594	4.49% 4.49%	0.1763 0.1687
	2059	191	18,532	9321.2%	64	31	2,992	9321.2%	1.2303	N/A N/A	0.2342	N/A N/A	0.766	0.594	4.49%	0.1687
	2061	105	10,280	9768.4%	45	16	1,588	9768.4%	1.2303	N/A	0.3029	N/A	0.697	0.551	4.49%	0.1545
	2062 2063	56 32	5,108 2,620	9076.3% 8285.9%	30 14	8 4	755 371	9076.3% 8285.9%	1.2303 1.2303	N/A N/A	0.3324 0.5389	N/A N/A	0.668 0.461	0.535 0.562	4.49% 4.49%	0.1479 0.1415
	2063	18	1,325	7168.9%	7	3	179	7168.9%	1.2303	N/A	0.5051	N/A	0.495	0.584	4.49%	0.1413
	2065	11	729	6375.2%	2	1	94	6375.2%	1.2303	N/A	0.7013	N/A	0.299	0.619	4.49%	0.1296
	2066 2067	7 5	318 185	4359.8% 4047.3%	1	1	39 22	4359.8% 4047.3%	1.2303 1.2303	N/A N/A	0.3382 0.0074	N/A N/A	0.662 0.993	0.637 0.627	4.49% 4.49%	0.1240 0.1187
	2067	3	185 95	4047.3% 3194.6%	1	0	11	4047.3% 3194.6%	1.2303	N/A N/A	0.0074 N/A	N/A N/A	0.993 N/A	0.627 N/A	4.49% 4.49%	0.1187
	2069	2	36	1883.1%	1	0	4	1883.1%	1.2303	N/A	N/A	N/A	N/A	N/A	4.49%	0.1087
	2070+	1	14	922.3%	1	0	1	922.3%	1.2303	N/A	N/A	N/A	N/A	N/A	4.49%	0.1040
	Past	34,457,650	18,259,670	53.0%	24,568	50,747,341	23,589,394	46.5%								
1	Future	25,032,880	98,678,422	394.2%	33,154	18,447,424	57,149,684	309.8%								
	Lifetime	59,490,530	116,938,092	196.6%	57,722	69,194,765	80,739,078	116.7%								

[|] Lifetime | 59,490,530 | 116,938,092 | 196,6% | 57,722 |
Note:
- The premiums shown in this exhibit reflect prior rate inreases authorized by Maryland.
- The projections are based on the assumptions derived using experience data through June 30, 2018
- Includes certificate forms GLTC5398 and GLTC5498 issued under group policy GLTC.1697

Exhibit I-B Metropolitan Life Insurance Company Maryland Experience Projections (Premium Normalized to Include Prior Authorized Increases) and With 21% Future Increase Group Policy Form: G.I.TC.1697

							Group Policy	OIII. G.LTC	2.1037							
	-	141	ithout Interest	Loss R	atio Demonst	ration	With Interest		Fact Premium	tors Derived for	rom Projected Valu	es for Illustrat Persistency		Only	Interest Ra Calendar Year	te Factors Mid-Year
	Calendar	Earned	Incurred	Loss	Life	Earned	Incurred	Loss	Rate Increase	Benefit	Policy	Persistency	Policy	Premium	Effective	Disc / Accum
	Year	Premium	Claims	Ratio	Years	Premium	Claims	Ratio	Factor	Downgrade	Lapse & Mortality	Shock Lapse	Persistency	Persistency	Int Rate	Factor
	1997 1998	-	-	N/A N/A	-	-	-	N/A N/A							4.49% 4.49%	2.5721 2.4615
	1999	-	-	N/A	1	-	-	N/A							4.49%	2.3557
	2000	89,918	-	0.0%	334	202,716	-	0.0%							4.49%	2.2545
	2001	645,355	2,310	0.4%	686	1,392,374	4,984	0.4%							4.49%	2.1575 2.0648
	2002 2003	939,193 1,389,084	352 569	0.0% 25.4%	920 1,280	1,939,229 2,744,856	696,683	0.0% 25.4%							4.49% 4.49%	1.9760
	2004	1,756,640	146,966	8.4%	1,496	3,321,929	277,922	8.4%							4.49%	1.8911
Historical	2005	2,110,460	866,762	41.1%	1,631	3,819,455	1,568,643	41.1%							4.49%	1.8098
Experience	2006	2,199,641	433,169	19.7%	1,602	3,809,718	750,237	19.7%							4.49%	1.7320
	2007 2008	2,210,588 2,210,943	544,347 399,639	24.6% 18.1%	1,563 1,532	3,664,086 3,507,131	902,264 633,932	24.6% 18.1%							4.49% 4.49%	1.6575 1.5863
	2009	2,190,443	752,040	34.3%	1,499	3,325,241	1,141,648	34.3%							4.49%	1.5181
	2010	2,159,749	767,254	35.5%	1,464	3,137,698	1,114,672	35.5%							4.49%	1.4528
	2011 2012	2,120,298 2,123,273	869,659 1,404,042	41.0% 66.1%	1,427 1,400	2,947,960 2,825,187	1,209,132 1,868,192	41.0% 66.1%							4.49% 4.49%	1.3904 1.3306
	2012	2,105,771	2,040,567	96.9%	1,379	2,623,167	2,598,417	96.1%							4.49%	1.2734
	2014	2,114,464	1,848,808	87.4%	1,352	2,576,767	2,253,029	87.4%							4.49%	1.2186
	2015	2,071,141	1,750,816	84.5%	1,315	2,415,467	2,041,889	84.5%							4.49%	1.1662
	2016 2017	2,010,712 2,021,940	2,617,667 1,440,749	130.2% 71.3%	1,278 1,239	2,244,183 2,159,699	2,921,613 1,538,910	130.2% 71.3%							4.49% 4.49%	1.1161 1.0681
	2017	1,988,038	2,022,305	101.7%	1,170	2,032,199	2,067,227	101.7%							4.49%	1.0222
Projected	2019	2,225,883	2,606,434	117.1%	1,155	2,177,513	2,549,794	117.1%	1.1586	1.0000	0.0128	1.0000		N/A	4.49%	0.9783
Future Experience	2020 2021	2,226,529 2,220,852	2,843,269 3,074,191	127.7% 138.4%	1,139 1,129	2,084,508 1,989,809	2,661,908 2,754,373	127.7% 138.4%	1.2247 1.2970	1.0000	0.0137 0.0088	1.0000		0.946 0.942	4.49% 4.49%	0.9362 0.8960
⊏xperience	2021	2,220,852	3,074,191	138.4%	1,129	1,989,809	2,754,373	138.4%	1.2970	1.0000	0.0088	1.0000		0.942	4.49% 4.49%	0.8960
	2023	2,227,882	3,507,395	157.4%	1,111	1,828,174	2,878,127	157.4%	1.4887	1.0000	0.0081	1.0000	0.992	0.932	4.49%	0.8206
	2024	2,063,592	3,704,705	179.5%	1,102	1,620,563	2,909,348	179.5%	1.4887	1.0000	0.0080	1.0000		0.926	4.49%	0.7853
	2025 2026	1,899,174	3,886,215 4,047,245	204.6% 232.8%	1,093	1,427,327	2,920,690 2,910,951	204.6% 232.8%	1.4887 1.4887	1.0000 1.0000	0.0081 0.0080	1.0000		0.920 0.915	4.49% 4.49%	0.7516 0.7192
	2027	1,738,292 1,581,781	4,187,521	264.7%	1,084 1,076	1,250,254 1,088,776	2,882,365	264.7%	1.4887	1.0000	0.0080	1.0000		0.910	4.49%	0.6883
	2028	1,430,806	4,296,464	300.3%	1,067	942,518	2,830,219	300.3%	1.4887	1.0000	0.0080	1.0000	0.992	0.905	4.49%	0.6587
	2029	1,286,054	4,374,701	340.2%	1,059	810,746	2,757,871	340.2%	1.4887	1.0000	0.0080	1.0000		0.899	4.49%	0.6304
	2030 2031	1,148,011 1,017,539	4,413,782 4,415,962	384.5% 434.0%	1,050 1,042	692,610 587,503	2,662,889 2,549,672	384.5% 434.0%	1.4887 1.4887	1.0000 1.0000	0.0080	1.0000		0.893 0.886	4.49% 4.49%	0.6033 0.5774
	2032	895,451	4,376,595	488.8%	1,033	494,786	2,418,310	488.8%	1.4887	1.0000	0.0088	1.0000		0.880	4.49%	0.5526
	2033	781,852	4,296,112	549.5%	1,024	413,444	2,271,789	549.5%	1.4887	1.0000	0.0080	1.0000		0.873	4.49%	0.5288
	2034	676,979 581,224	4,175,332 4,017,193	616.8% 691.2%	1,015 1.006	342,598 281.494	2,113,003 1,945,577	616.8% 691.2%	1.4887 1.4887	1.0000	0.0089 0.0096	1.0000		0.866 0.859	4.49% 4.49%	0.5061
	2036	494,650	3,825,195	773.3%	992	229,267	1,772,949	773.3%	1.4887	1.0000	0.0139	1.0000		0.851	4.49%	0.4635
	2037	417,072	3,604,942	864.3%	980	185,000	1,599,033	864.3%	1.4887	1.0000	0.0114	1.0000	0.989	0.843	4.49%	0.4436
	2038	348,249	3,361,913	965.4%	967 947	147,831	1,427,126	965.4%	1.4887	1.0000	0.0140	1.0000		0.835	4.49%	0.4245
	2039	288,090 236,101	3,102,342 2,833,416	1076.9% 1200.1%	947	117,036 91,793	1,260,324 1,101,589	1076.9% 1200.1%	1.4887 1.4887	1.0000	0.0201 0.0298	1.0000		0.827 0.820	4.49% 4.49%	0.4062 0.3888
	2041	191,589	2,561,259	1336.8%	895	71,285	952,971	1336.8%	1.4887	1.0000	0.0259	1.0000		0.811	4.49%	0.3721
	2042	153,868	2,282,929	1483.7%	871	54,789	812,896	1483.7%	1.4887	1.0000	0.0271	1.0000		0.803	4.49%	0.3561
	2043	122,266 96.074	2,013,637 1,754,437	1646.9% 1826.1%	845 813	41,664 31,332	686,184 572,155	1646.9% 1826.1%	1.4887 1.4887	1.0000	0.0294 0.0383	1.0000		0.795 0.786	4.49% 4.49%	0.3408 0.3261
	2044	74,612	1,754,437	2022.0%	779	23,286	470,836	2022.0%	1.4887	1.0000	0.0383	1.0000		0.786	4.49%	0.3261
	2046	57,235	1,281,484	2239.0%	738	17,095	382,757	2239.0%	1.4887	1.0000	0.0526	1.0000	0.947	0.767	4.49%	0.2987
	2047	43,383	1,074,358	2476.5%	695	12,401	307,097	2476.5%	1.4887	1.0000	0.0579	1.0000		0.758	4.49%	0.2858
	2048 2049	32,451 23,936	888,589 725,087	2738.2% 3029.2%	643 589	8,877 6,266	243,077 189,824	2738.2% 3029.2%	1.4887 1.4887	1.0000 1.0000	0.0751 0.0836	1.0000		0.748 0.738	4.49% 4.49%	0.2736 0.2618
	2049	17,376	583,457	3357.9%	540	4,353	146,179	3357.9%	1.4887	1.0000	0.0833	1.0000		0.736	4.49%	0.2505
	2051	12,395	462,684	3733.0%	492	2,972	110,937	3733.0%	1.4887	1.0000	0.0896	1.0000	0.910	0.713	4.49%	0.2398
	2052	8,683	360,483	4151.7%	439	1,992	82,717	4151.7%	1.4887	1.0000	0.1075	1.0000		0.701	4.49%	0.2295
	2053 2054	5,965 4,022	276,441 206,870	4634.1% 5143.5%	376 316	1,310 845	60,706 43,475	4634.1% 5143.5%	1.4887 1.4887	1.0000	0.1440 0.1594	1.0000 1.0000		0.687 0.674	4.49% 4.49%	0.2196 0.2102
	2055	2,663	151,441	5687.5%	261	536	30,458	5687.5%	1.4887	1.0000	0.1734	1.0000	0.827	0.662	4.49%	0.2011
	2056	1,724	108,065	6267.1%	206	332	20,800	6267.1%	1.4887	1.0000	0.2091	1.0000	0.791	0.648	4.49%	0.1925
	2057 2058	1,090 670	73,995 48,824	6787.7% 7289.6%	164 123	201 118	13,630 8,607	6787.7% 7289.6%	1.4887 1.4887	1.0000	0.2039 0.2528	1.0000		0.632 0.614	4.49% 4.49%	0.1842 0.1763
	2058	670 398	48,824 30,673	7289.6%	123 94	118	8,607 5,175	7289.6% 7703.5%	1.4887	1.0000	0.2528	1.0000		0.614	4.49% 4.49%	0.1763
	2060	231	18,532	8012.5%	64	37	2,992	8012.5%	1.4887	1.0000	0.3160	1.0000	0.684	0.581	4.49%	0.1615
	2061	127	10,280	8073.0%	45	20	1,588	8073.0%	1.4887	1.0000	0.3029	1.0000		0.551	4.49%	0.1545
	2062 2063	68 38	5,108 2,620	7501.0% 6847.9%	30 14	10	755 371	7501.0% 6847.9%	1.4887 1.4887	1.0000	0.3324 0.5389	1.0000		0.535 0.562	4.49% 4.49%	0.1479 0.1415
	2063	22	1,325	5924.7%	7	3	179	5924.7%	1.4887	1.0000	0.5051	1.0000		0.562	4.49%	0.1415
	2065	14	729	5268.8%	2	2	94	5268.8%	1.4887	1.0000	0.7013	1.0000	0.299	0.619	4.49%	0.1296
	2066	9	318	3603.2%	1	1	39	3603.2%	1.4887	1.0000	0.3382	1.0000		0.637	4.49%	0.1240
	2067 2068	6	185 95	3344.9% 2640.2%	1	1 0	22 11	3344.9% 2640.2%	1.4887 1.4887	1.0000 1.0000	0.0074 N/A	1.0000		0.627 N/A	4.49% 4.49%	0.1187
	2069	2	36	1556.3%	1	0	4	1556.3%	1.4887	1.0000	N/A	1.0000		N/A	4.49%	0.1136
	2070+	2	14	762.3%	1	0	1	762.3%	1.4887	1.0000	N/A	1.0000		N/A	4.49%	0.1040
	Past	34,457,650	18,259,670	53.0%	24 568	50,747,341	23,589,394	46.5%	ı							
	Future	28,926,916	98,678,422	341.1%	33,154	21,046,844	57,149,684	271.5%								
	Lifetime	63,384,566	116,938,092	184.5%	57,722	71,794,185	80,739,078	112.5%								
Note:																

Lifetime 63.384.566 116.938.092 184.5% 57.722 Note:

- The premiums shown in this exhibit reflect prior rate invesses authorized by Maryland.

- The projections are based on the assumptions derived using experience data through June 30, 2018 - Includes certificate forms G.I.TC5398 and G.I.TC5498 issued under group policy G.I.TC.1697.

- The current requested increase of 21% is assumed to be implemented over two phases.

Exhibit II-B

Demonstration that Lifetime Incurred Claims with Requested Increase are Not Less than Lifetime Earned Premium with Prescribed Factors Group Policy Form: G.LTC.1697

Accumulated value of initial earned premium	50,675,255	х	58%	=	29,391,648
2a Accumulated value of earned premium 2b Accumulated value of prior premium rate schedule increases (2a-1)	50,747,341 72,086	x	85%	=	61,273
3 Present value of future projected initial earned premium	15,111,165	x	58%	=	8,764,476
4a Present value of future projected premium 4b Present value of future projected premium in excess of the projected initial earned premiums (4a-3)	21,046,844 5,935,679	x	85%	=	5,045,327
5 Lifetime Earned Premium Times Prescribed Factor: Sum of 1, 2b, 3, and 4b					43,262,724
6a Accumulated value of incurred claims without the inclusion of active life reserves 6b Present value of future projected incurred claims without the inclusion of active life reserves					23,589,394 57,149,684
7 Lifetime Incurred Claims with Rate Increase: Sum of 6a and 6b					80,739,078
8 Test: 7 is not less than 5					TRUE

Attachment 1

Metropolitan Life Insurance Company

Group Policy Form: G.LTC1697, Certificate Forms: G.LTC5398 and G.LTC5498

Comparison of Original Pricing and Current Best Estimate Assumptions

Original Pricing Assumptions

Voluntary Lapse Rates

Discount Rate

Policy	Lapse
Duration	Rate
1	11.00%
2	5.30%
3	5.10%
4	4.90%
5	4.80%
6	4.70%
7	4.65%
8	4.60%
9	4.55%
10+	4.50%

6.25%

4	.4	9	%

Policy	Lapse
Duration	Rate
1	5.50%
2	3.50%
3	2.50%
4	2.00%
5	1.50%
6	1.25%
7	0.90%
8	0.80%
9	0.80%
10	0.80%
11+	0.70%

Current Best Estimate Assumptions

Active Life Mortality Rates

Mortality was based on the 1983 Group Annuity Mortality Table, adjusted to remove loading.

93% Annuity 2000 Basic Table with Mortality Selection Factors of:

Policy	Mortality	Policy	Mortality
Duration	Selection	Duration	Selection
1	30%	11	76%
2	48%	12	79%
3	49%	13	80%
4	58%	14	80%
5	62%	15	81%
6	63%	16	88%
7	69%	17	88%
8	72%	18	88%
9	73%	19	88%
10	75%	20+	100%

Morbidity:

Incidence

Incidence rates for nursing home care and home health care were based on studies from the 1985 National Nursing Home Survey and 1982-84 National Long Term Care Survey, respectively, with modifications to incorporate experience of other long-term care business that MetLife issued or administered, as well as to incorporate industry expectation.

Sample Ultimate Smoothed Incidence Rates (before gross-up to zero-day elimination)

Attained	Facilit	y Care	Home	Care
Age	Male	Female	Male	Female
80	1.43%	1.56%	1.18%	1.29%
81	1.72%	1.84%	1.37%	1.48%
82	2.06%	2.17%	1.59%	1.68%
83	2.45%	2.53%	1.84%	1.91%
84	2.89%	2.94%	2.11%	2.16%
85	3.37%	3.39%	2.42%	2.44%

Continuance

Continuance rates for nursing home care and home health care were based on studies from the 1985 National Nursing Home Survey and 1982-84 National Long Term Care Survey, respectively, with modifications to incorporate experience of other long-term care business that MetLife issued or administered, as well as to incorporate industry expectation.

Continuance curves were constructed in 2016 by gender and care path separately for deaths and recoveries. Coefficients to an exponential shaped curve were based on experience adjusted to minimize differences between actual and expected terminations in total as well as at periodic duration points along the curves.

Death and recovery termination rates are recombined into a single termination table for modeling and valuation uses.

In 2019, there were some minor refinements to the coefficients of the curves

Utilization

Home care prevalence rates were based on 1982-1984 National Long Term Care Surveys with modifications. Note that the actual utilization assumption at original pricing is not available.

Home Care	Facility Care
72%	87%

Attachment 2 Metropolitan Life Insurance Company Nationwide Experience Projections (Premium Normalized to Include Prior Authorized Increases) Actual to Expected Ratios Group Policy Form: G.LTC.1697

Calendar Year 1997 1998 1999 2000 2001 2001 2002 2003 2004 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2018 2019 2020 2021 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2032 204 2025 2026 2027 2028 2029 2030 2031 2031 2032 2033 Projected Experience 2036 2037 2038 2039 2040 2041 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	ar 97 98 2 99 1 00 3 01 5 702 7	A Earned Premium 35,397 2,709,668 13,625,336 33,643,817	B Incurred Claims 0 68,198 1,239,998	C = B / A Loss Ratio 0.0% 2.5%	D Earned Premium 35,397 972,997	E Incurred Claims 2,651 91,932	F=E/D Loss Ratio 7.5%	G = C / F Actual to Expected Ratio 0.00	Actual/Projected at 4.49% (on C) 0.0%	Expected at 6.25% (on F) 7.5%	J = H / I Actual to Expected Ratio 0.00
Historical Experience 1997 1998 1999 2000 2001 2002 2003 2004 2016 2017 2018 2019	ar 97 98 2 99 1 00 3 01 5 702 7	Premium 35,397 2,709,668 13,625,336	Claims 0 68,198 1,239,998	0.0% 2.5%	Premium 35,397	Claims 2,651	Ratio 7.5%	Expected Ratio 0.00	at 4.49% (on C)	(on F)	Expected Ratio
Historical 2005 Experience 2006 Experience 2006 Experience 2007 2008 2010 2011 2002 2003 2004 2007 2008 2010 2011 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2040 2041 2042 2053 2064 2077 208 2099 2030 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2066 2057 2058 2059 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062	97 98 2 99 1 00 3 01 5 02 7 03 9	35,397 2,709,668 13,625,336	0 68,198 1,239,998	0.0% 2.5%	35,397	2,651	7.5%	0.00			
Historical 2005 Experience 2006 Experience 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2010 2011 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2031 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2047 2048 2049 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2068 2069 2051 2052 2053 2054 2055 2056 2057 2058 2059 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062	98 2 99 1 00 3 01 5 02 7 03 9	2,709,668 13,625,336	68,198 1,239,998	2.5%					0.0%	7.5%	0.00
Historical Experience 1999 2000 2001 2002 2003 2006 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2060 2061 2062 2063 2066 2067 2068 2057 2058 2059 2060 2061 2062 2063 2066	99 1 00 3 01 5 02 7 03 9	13,625,336	1,239,998		972.997						
Historical Experience 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 20	00 3 01 5 02 7 03 9						9.4%	0.27	2.5%	9.4%	0.26
Historical 2001 2002 2003 2004 Historical 2006 Experience 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2020 2021 2021 2022 2023 2024 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2024 2025 2026 2027 2028 2029 2030 2031 2032 2034 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062	01 5 02 7 03 9	33,643,817		9.1%	7,608,611	994,301	13.1%	0.70	7.9%	12.6%	0.63
Historical Experience 2005	02 7 03 9		3,791,849	11.3%	24,271,185	3,799,281	15.7%	0.72	10.1%	14.8%	0.68
Historical 2003 2004 2005 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2055 2056 2057 2058 2059 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2066 206	03 9	56,040,100	9,151,971	16.3%	44,796,695	8,325,796	18.6%	0.88	13.3%	16.9%	0.79
Historical Experience 2004		73,045,895	15,491,137	21.2%	60,032,531	13,453,873	22.4%	0.95	16.4%	19.2%	0.85
Historical Experience 2005	04 1	93,280,952	21,121,512	22.6%	71,437,495	19,167,258	26.8%	0.84	18.4%	21.6%	0.85
Experience 2006 2007 2008 2009 2010 2011 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2055 2056 2057 2058 2059 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2062		10,414,946	27,600,772	25.0%	85,127,390	26,424,022	31.0%	0.81	20.2%	24.1%	0.84
2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2038 2039 2040 2041 2042 2043 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2068 2077 2088 2099 2000 2011 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062	05 12	20,430,373	30,475,808	25.3%	91,074,926	33,468,939	36.7%	0.69	21.3%	26.7%	0.80
Projected Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2054 2055 2056 2057 2058 2059 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063 2057 2058 2059 2060 2061 2062 2063 2060 2061 2062 2063 2077 2058 2059 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2011 2012 2012 2012 2012 2012 2012 201	06 12	22,086,764	45,845,925	37.6%	87,924,412	38,994,345	44.3%	0.85	24.1%	29.5%	0.82
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2030 2031 2032 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2068 2077 2088 2099 2000 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062	07 12	22,583,084	42,232,214	34.5%	80,918,904	43,240,210	53.4%	0.64	25.6%	32.4%	0.79
Projected Experience 2035 2036 2037 2038 2039 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2056 2057 2058 2059 2060 2061 2062 2063 2057 2058 2059 2060 2061 2062 2063 2057 2058 2059 2060 2061 2062 2063	08 12	22,270,964	55,503,944	45.4%	73,847,996	46,837,922	63.4%	0.72	28.0%	35.4%	0.79
Projected Experience 2035 2036 2037 2038 2039 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2060 2061 2062 2063 2077 2058 2059 2060 2061 2062 2063 2077 2058 2059 2060 2061 2062 2063 2077 2058 2059 2060 2061 2062 2063 2017 2018 2059 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063	09 12	20,794,526	58,925,904	48.8%	66,619,828	49,324,984	74.0%	0.66	30.1%	38.2%	0.79
2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2032 2033 Projected Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062	10 1	19,357,523	66,471,216	55.7%	59,768,221	50,721,942	84.9%	0.66	32.4%	41.0%	0.79
2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	11 1	16,681,753	76,089,617	65.2%	53,388,612	51,463,568	96.4%	0.68	34.9%	43.6%	0.80
Projected Experience 2035 2036 2037 2038 2039 2044 2045 2046 2047 2048 2049 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063 2060 2061 2062 2063 2060 2061 2062 2063 2066 2063 2057 2058 2059 2060 2061 2062 2063 2017 2015 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2017 2018 2019 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063 2019 2060 2061 2062 2063 2019 2019 2019 2019 2019 2019 2019 2019	12 1	15,258,145	92,109,164	79.9%	47,495,432	51,711,193	108.9%	0.73	37.9%	46.1%	0.82
2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2032 2034 Experience 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2055 2056 2057 2058 2059 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062	13 1	12,707,215	92,762,493	82.3%	42,066,518	51,516,554	122.5%	0.67	40.6%	48.4%	0.84
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062	14 1 ⁻	10,773,968	94,126,231	85.0%	37,086,444	51,061,820	137.7%	0.62	42.9%	50.6%	0.85
2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2056 2057 2058 2059 2060 2061 2062		07,963,580	99,254,143	91.9%	32,517,950	50,260,858	154.6%	0.59	45.2%	52.7%	0.86
Projected Experience 2035 2036 2037 2038 2039 2044 2045 2044 2045 2044 2045 2044 2045 2044 2045 2044 2045 2044 2045 2046 2057 2058 2056 2057 2058 2059 2060 2061 2062 2063		04,984,586	128,059,965	122.0%	28,364,305	49,071,834	173.0%	0.71	48.4%	54.7%	0.89
Projected Experience 2035 2036 2037 2038 2039 2040 2041 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063		03,870,010	138,859,601	133.7%	24,611,550	47,659,712	193.6%	0.69	51.7%	56.5%	0.91
2019 2020 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2031 2032 2034 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		99,056,531	144,761,038	146.1%	21,242,423	46,000,151	216.5%	0.67	54.8%	58.2%	0.94
Projected 2035 Experience 2036 2041 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 Projected 2035 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		13,288,600	154,635,751	136.5%	18,236,331	44,102,654	241.8%	0.56	57.7%	59.7%	0.97
Projected Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2046 2047 2048 2049 2050 2051 2055 2056 2057 2058 2059 2060 2061 2062 2063		12,579,442	165,963,575	147.4%	15,570,811	42,106,747	270.4%	0.55	60.7%	61.1%	0.99
2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2034 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		05,827,937	176,741,148	167.0%	13,223,249	39,987,666	302.4%	0.55	63.7%	62.4%	1.02
2023 2024 2025 2026 2027 2028 2029 2030 2031 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		98,524,094	186,605,794	189.4%	11,170,388	37,756,225	338.0%	0.56	66.8%	63.6%	1.02
2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 Projected 2034 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		91,222,525	195,525,347	214.3%	9,386,082	35,535,247	378.6%	0.57	70.0%	64.6%	1.08
2025 2026 2026 2027 2028 2029 2030 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		83,872,790	203,251,731	242.3%	7,844,563	33,334,393	424.9%	0.57	73.2%	65.6%	1.12
2026 2027 2028 2029 2030 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		76,630,658	203,251,731	273.6%	6,522,052	33,334,393	424.9% 477.6%	0.57	76.4%		1.12
2027 2028 2029 2030 2031 2032 2033 Projected 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		69,627,458	214,674,198	308.3%	5,394,402	29,030,230	477.6% 538.2%	0.57	76.4% 79.6%	66.4% 67.2%	1.15
2028 2029 2030 2031 2031 2032 2033 Projected 2036 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063							607.7%				
2029 2030 2031 2032 2033 Projected Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		62,895,301	218,124,080	346.8%	4,438,989	26,977,337		0.57	82.7%	67.8%	1.22
2030 2031 2032 2033 Projected 2034 Experience 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		56,482,268	219,927,550	389.4%	3,632,898	24,988,707	687.8% 781.4%	0.57	85.7%	68.4%	1.25
Projected Experience 2034 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		50,407,126	220,045,876	436.5%	2,956,726	23,102,819	-	0.56	88.7%	68.9%	1.29
Projected 2032 2033 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		44,684,961	218,439,550	488.8%	2,392,768	21,301,400	890.2%	0.55	91.5%	69.4%	1.32
Projected 2034 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		39,340,455	215,176,028	547.0%	1,925,673	19,555,975	1015.5%	0.54	94.3%	69.8%	1.35
Projected Experience 2034 Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		34,399,053	210,284,848	611.3%	1,539,782	17,884,587	1161.5%	0.53	96.8%	70.1%	1.38
Experience 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		29,855,507	203,935,680	683.1%	1,223,197	16,280,759	1331.0%	0.51	99.2%	70.4%	1.41
2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		25,702,008	196,186,945	763.3%	964,866	14,734,377	1527.1%	0.50	101.5%	70.7%	1.44
2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		21,948,167	187,063,757	852.3%	755,802	13,249,572	1753.0%	0.49	103.5%	70.9%	1.46
2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		18,586,804	176,618,410	950.2%	588,446	11,812,399	2007.4%	0.47	105.4%	71.1%	1.48
2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		15,602,958	165,173,082	1058.6%	454,250	10,416,455	2293.1%	0.46	107.1%	71.2%	1.50
2040 2041 2042 2043 2044 2045 2046 2047 2048 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		12,976,272	152,905,779	1178.3%	346,420	9,050,884	2612.7%	0.45	108.6%	71.4%	1.52
2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		10,692,522	140,044,142	1309.7%	260,732	7,680,267	2945.7%	0.44	109.9%	71.5%	1.54
2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		8,729,786	126,862,019	1453.2%	194,252	6,323,856	3255.5%	0.45	111.1%	71.5%	1.55
2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		7,059,285	113,575,442	1608.9%	142,764	5,061,765	3545.5%	0.45	112.1%	71.6%	1.57
2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		5,651,554	100,520,009	1778.6%	102,892	3,944,255	3833.4%	0.46	113.0%	71.6%	1.58
2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062	43 4	4,476,916	87,970,255	1965.0%	72,948	2,950,738	4045.0%	0.49	113.7%	71.7%	1.59
2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062		3,507,925	76,099,449	2169.4%	51,337	2,128,083	4145.3%	0.52	114.3%	71.7%	1.59
2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		2,717,914	65,065,181	2393.9%	36,025	1,506,081	4180.6%	0.57	114.8%	71.7%	1.60
2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		2,080,467	54,981,732	2642.8%	25,234	1,060,462	4202.5%	0.63	115.2%	71.7%	1.61
2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063		1,573,356	45,914,227	2918.2%	17,671	743,137	4205.4%	0.69	115.5%	71.7%	1.61
2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	48	1,174,597	37,860,620	3223.3%	12,375	520,499	4206.1%	0.77	115.8%	71.7%	1.61
2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	49	865,121	30,807,091	3561.0%	8,666	364,600	4207.3%	0.85	116.0%	71.7%	1.62
2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	50	627,548	24,703,772	3936.6%	6,069	255,424	4208.4%	0.94	116.1%	71.7%	1.62
2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	51	447,902	19,486,404	4350.6%	4,250	178,953	4210.7%	1.03	116.2%	71.7%	1.62
2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063	52	314,169	15,104,886	4807.9%	2,975	125,383	4214.6%	1.14	116.3%	71.7%	1.62
2055 2056 2057 2058 2059 2060 2061 2062 2063		216,252	11,469,984	5304.0%	2,082	87,768	4214.6%	1.26	116.4%	71.7%	1.62
2056 2057 2058 2059 2060 2061 2062 2063	54	145,986	8,506,108	5826.7%	1,458	61,438	4214.6%	1.38	116.4%	71.7%	1.62
2057 2058 2059 2060 2061 2062 2063	55	96,262	6,147,354	6386.1%	1,020	43,006	4214.6%	1.52	116.5%	71.7%	1.62
2057 2058 2059 2060 2061 2062 2063	56	61,997	4,319,699	6967.6%	714	30,104	4214.6%	1.65	116.5%	71.7%	1.62
2058 2059 2060 2061 2062 2063		39,063	2,959,602	7576.5%	500	21,073	4214.6%	1.80	116.5%	71.7%	1.62
2059 2060 2061 2062 2063		24,167	1,964,241	8127.6%	350	14,747	4214.6%	1.93	116.5%	71.7%	1.62
2060 2061 2062 2063		14,803	1,269,126	8573.2%	243	10,227	4214.6%	2.03	116.5%	71.7%	1.62
2061 2062 2063		9,093	799,993	8797.9%	163	6,854	4214.6%	2.09	116.5%	71.7%	1.62
2062 2063		5,737	493,508	8602.3%	104	4,369	4214.6%	2.04	116.5%	71.7%	1.62
2063		3,835	310,467	8094.8%	64	2,696	4214.6%	1.92	116.5%	71.7%	1.62
		2,782	199,588	7173.8%	38	1,594	4214.6%	1.70	116.5%	71.7%	1.62
200+		2,186	132,767	6073.1%	17	732	4214.6%	1.44	116.5%	71.7%	1.62
2065		1,829	91,032	4977.3%	6	241	4214.6%	1.44	116.5%	71.7%	1.62
	64		64,239	4977.3%	2			0.95			1.62
2066	64 65	1,605				65 25	4214.6%		116.5%	71.7%	
2067	64 65 66	1 151	47,080	3237.6%	1	25	4214.6%	0.77	116.5%	71.7%	1.62
2068	64 65 66 67	1,454	22.022		0	4	4214.6%	0.60	116.5%	71.7%	1.62
2069	64 65 66 67 68	1,351	33,933	2512.1%							
2070	64 65 66 67 68	1,351 1,281	25,115	1961.3%	0	2	4214.6%	0.47	116.5%	71.7%	1.62
Past	64 65 66 67 68	1,351				2 1	4214.6% 4214.6%	0.47 0.08	116.5% 116.5%	71.7% 71.7%	1.62
Future	64 65 66 67 68 69 70	1,351 1,281 15,485	25,115 52,856	1961.3% 341.3%	0	1	4214.6%	0.08	116.5%	71.7%	1.62
Lifetime	64 655 666 667 688 669 770	1,351 1,281	25,115	1961.3%	0						

Note:
- Figures in column A are normalized to reflect the prior rate action authorized by Maryland rather than the prior rate action approved by other states.
- Figures in column D do not reflect any rate action.

Attachment 3

Metropolitan Life Insurance Company Nationwide Experience Projections (Premium Normalized to Include Prior Authorized Increases) Actual to Expected Ratios Group Policy Form: G.LTC.1697

	Actual Expe	Projected Experience through 1	2/31/2018	Expect Reproduced				
	A Projections ba	sed on Current A B	C = B / A	Assum D	ptions since incept E	F=E/D	G = C / F	
	Earned	Incurred	Loss	Earned	Incurred	Loss	Actual to	
Duration	Premium	Claims	Ratio	Premium	Claims	Ratio	Expected Ratio	
1	67,789,539	5,458,062	8.1%	67,789,539	5,076,885	7.5%	1.08	
2	126,454,760	11,459,640	9.1%	126,454,760	22,360,904	17.7%	0.51	
3	124,444,643	23,355,476	18.8%	114,609,874	29,736,064	25.9%	0.72	
4	123,539,764	33,935,067	27.5%	103,704,303	36,131,360	34.8%	0.79	
5	122,883,446	33,754,557	27.5%	93,616,971	42,851,722	45.8%	0.60	
6	122,393,239	42,118,692	34.4%	84,134,493	52,592,581	62.5%	0.55	
7	121,802,271	46,668,451	38.3%	75,160,420	55,574,847	73.9%	0.52	
8	120,965,045	52,402,107	43.3%	66,593,401	55,783,944	83.8%	0.52	
9	119,778,402	66,862,087	55.8%	58,976,379	56,842,570	96.4%	0.58	
10	118,240,420	68,433,083	57.9%	52,099,284	56,787,190	109.0%	0.53	
11	116,536,517	75,700,351	65.0%	45,771,541	55,771,474	121.8%	0.53	
12	114,506,068	87,679,823	76.6%	40,010,697	55,952,499	139.8%	0.55	
13	112,518,931	101,695,647	90.4%	34,788,293	54,823,606	157.6%	0.57	
14	110,379,056	110,373,577	100.0%	30,094,419	52,502,057	174.5%	0.57	
15	108,736,283	113,530,612	104.4%	25,901,833	51,477,458	198.7%	0.53	
16	108,372,419	127,560,645	117.7%	22,167,127	49,369,103	222.7%	0.53	
17	108,776,232	142,283,878	130.8%	18,865,605	46,617,088	247.1%	0.53	
18	107,744,862	148,934,865	138.2%	15,965,115	44,726,761	280.2%	0.49	
19	106,559,033	164,782,506	154.6%	13,434,802	41,949,300	312.2%	0.50	
20	105,098,412	174,308,922	165.9%	11,253,166	38,970,009	346.3%	0.48	
21	101,545,382	185,592,431	182.8%	9,367,520	36,717,838	392.0%	0.47	
22	95,010,725	195,142,456	205.4%	7,751,309	34,098,281	439.9%	0.47	
23	87,609,193	203,727,611	232.5%	6,386,886	31,349,203	490.8%	0.47	
24	80,286,771	211,296,318	263.2%	5,226,581	29,013,926	555.1%	0.47	
25	73,145,209	217,352,546	297.2%	4,262,883	26,652,136	625.2%	0.48	
26	66,231,571	221,858,924	335.0%	3,451,132	24,334,833	705.1%	0.48	
27	59,597,849	224,738,200	377.1%	2,785,710	22,420,870	804.9%	0.47	
28	53,286,275	225,746,673	423.6%	2,232,066	20,480,354	917.6%	0.46	
29	47,330,101	224,911,934	475.2%	1,786,045	18,488,929	1035.2%	0.46	
30	41,752,090	222,243,374	532.3%	1,408,221	16,859,908	1197.2%	0.44	
31	36,565,837	217,827,984	595.7%	1,110,042	15,258,481	1374.6%	0.43	
32	31,782,995	211,825,732	666.5%	867,835	13,709,724	1579.8%	0.42	
33	27,408,809	204,224,748	745.1%	672,708	12,337,404	1834.0%	0.41	
34	23,442,649	195,123,028	832.3%	522,890	10,937,800	2091.8%	0.40	
35	19,875,811	184,640,235	929.0%	396,818	9,622,272	2424.9%	0.38	
36	16,698,058	172,981,817	1035.9%	300,139	8,454,208	2816.8%	0.37	
37	13,896,220	160,315,436	1153.7%	225,298	7,309,875	3244.5%	0.36	
38	11,452,382	146,813,423	1281.9%	171,466	6,229,834	3633.3%	0.35	
39	9,343,251	132,796,137	1421.3%	125,305	5,194,797	4145.7%	0.34	
40	7,543,383	118,605,256	1572.3%	86,535	4,243,333	4903.6%	0.32	
41	6,025,185	104,698,193	1737.7%	59,760	2,930,419	4903.6%	0.35	
42	4,759,179	91,249,580	1917.3%	41,270	2,023,729	4903.6%	0.39	
43	3,716,010	78,471,770	2111.7%	28,501	1,397,574	4903.6%	0.43	
44	2,866,824	66,659,257	2325.2%	19,683	965,156	4903.6%	0.47	
45	2,184,322	55,953,377	2561.6%	13,593	666,530	4903.6%	0.52	
46	1,642,557	46,420,334	2826.1%	9,387	460,302	4903.6%	0.58	
47	1,218,088	38,017,016	3121.0%	6,483	317,881	4903.6%	0.64	
48	889,862	30,688,061	3448.6%	4,477	219,527	4903.6%	0.70	
49	639,582	24,376,216	3811.3%	3,092	151,604	4903.6%	0.78	
50	451,471	19,001,646	4208.8%	2,135	104,697	4903.6%	0.86	
51	312,469	14,503,053	4641.4%	1,474	72,303	4903.6%	0.95	
52	211,851	10,793,778	5095.0%	1,018	49,932	4903.6%	1.04	
53	140,176	7,801,900	5565.8%	703	34,483	4903.6%	1.14	
54	90,033	5,464,203	6069.1%	486	23,813	4903.6%	1.24	
55	55,857	3,680,910	6589.9%	335	16,445	4903.6%	1.34	
56	33,369	2,376,699	7122.6%	232	11,357	4903.6%	1.45	
57	19,154	1,447,887	7559.1%	160	7,843	4903.6%	1.54	
58	10,655	835,186	7838.1%	110	5,416	4903.6%	1.60	
59	5,962	468,039	7850.3%	76	3,741	4903.6%	1.60	
60	3,654	269,861	7384.7%	53	2,583	4903.6%	1.51	
UU	3,004	203,001	1304.170	J 33	۷,۵۵۵	4503.070	1.51	

Note:

Lifetime

Lifetime*

191.2%

116.5%

1,768,605,737

3,196,600,165 6,112,239,275

2,060,044,814

- Figures in column A are normalized to reflect the prior rate action authorized by Maryland rather than the prior rate action approved by other states.

- Figures in column D do not reflect any rate action.

* Columns A and B are discounted back to the inception date at an interest rate of 4.49%, which is the weighted average maximum valuation interest rate for contract reserves. Columns D and E are discounted back to the inception date at the original pricing interest rate of 6.25%.

1,150,722,436

754,374,690

1,269,076,764

550,707,116

110.3%

73.0%

1.73

1.60

Attachment 4
Metropolitan Life Insurance Company
Actual-to-Expected Results - Lapse
Group Policy Form: G.LTC1697

Lapse								
Policy Duration	Actual	Expected ^{1,2}	A/E%					
1	6,620	6,653	99.5%					
2	3,764	4,040	93.2%					
3	2,701	2,795	96.6%					
4	2,059	2,177	94.6%					
5	1,545	1,595	96.8%					
6	1,403	1,301	107.8%					
7	1,196	917	130.5%					
8	1,032	797	129.5%					
9	893	780	114.6%					
10	852	761	111.9%					
11	794	728	109.0%					
12	651	678	96.0%					
13+	2,013	2,328	86.5%					

Attachment 4
Metropolitan Life Insurance Company
Actual-to-Expected Results - Mortality
Group Policy Form: G.LTC1697

Mantalite.									
	Mortality								
Policy									
Duration	Actual	Expected ¹	A/E%						
1	291	260	111.93%						
2	499	438	113.93%						
3	541	478	113.13%						
4	691	608	113.58%						
5	795	700	113.50%						
6	870	767	113.37%						
7	1,034	905	114.21%						
8	1,152	1,017	113.29%						
9	1,199	1,107	108.34%						
10	1,388	1,218	113.94%						
11	1,494	1,314	113.72%						
12	1,592	1,409	113.02%						
13	1,715	1,434	119.60%						
14	1,577	1,391	113.35%						
15	1,474	1,302	113.22%						
16	1,353	1,194	113.29%						
17	980	981	99.86%						
18	665	692	96.12%						
19	339	349	97.14%						
20+	154	113	136.05%						

¹ The expecteds are based on current best estimate assumptions.

² Experience based on most recent five years only. The majority of the remaining policies are in their 13th duration or later, as a result, the results for duration 12 and before are no longer relevant.

Attachment 4 **Metropolitan Life Insurance Company Actual to Expected Incidence Group Policy Form: G.LTC1697**

	Female						Male					
	Facility Care			Home Care		Facility Care			Home Care			
Attained Age	Actual Claims ¹	Expected Claims ²	A/E%	Actual Claims ¹	Expected Claims ²	A/E%	Actual Claims ¹	Expected Claims ²	A/E%	Actual Claims ¹	Expected Claims ²	A/E%
under 50	0	0	0%	0	0	0%	0	0	0%	0	0	0%
50 to 54	1	3	35%	4	4	102%	1	1	79%	2	2	115%
55 to 59	22	28	79%	48	42	116%	4	16	26%	28	22	128%
60 to 64	62	87	71%	135	142	95%	50	54	92%	86	78	111%
65 to 69	189	205	92%	291	321	91%	118	125	94%	162	181	89%
70 to 74	581	567	102%	473	512	92%	365	284	128%	329	301	109%
75 to 79	1,224	1,162	105%	715	729	98%	680	658	103%	438	477	92%
80 to 84	1,513	1,475	103%	734	702	104%	796	855	93%	458	471	97%
85 to 89	1,077	1,067	101%	413	412	100%	547	548	100%	262	261	100%
over 89	296	317	93%	107	91	117%	136	98	139%	63	62	101%
Total	4,965	4,911	101%	2,920	2,956	99%	2,697	2,640	102%	1,828	1,855	99%

¹Based on actual experience through 6/30/2018.
²The expected claims are based on current best estimate assumptions.

Attachment 4
Metropolitan Life Insurance Company
Actual to Expected Claim Termination
All Business (exclude AARP-Pru)

Claim Duration (Months)	Actual Deaths	Expected Deaths ¹	Actual Recoveries	Expected Recoveries ¹	Deaths A/E%	Recoveries A/E%	Total A/E%
1	970	678	69	107	143%	64%	132%
2	850	1,334	180	257	64%	70%	65%
3	891	1,224	251	254	73%	99%	77%
4	1,019	1,394	336	294	73%	114%	80%
5	1,036	1,191	312	246	87%	127%	94%
6	885	1,001	228	201	88%	113%	93%
7	799	844	203	168	95%	121%	99%
8	722	734	151	139	98%	108%	100%
9	668	649	126	117	103%	108%	104%
10	618	588	124	100	105%	124%	108%
11	553	544	98	87	102%	112%	103%
12	616	512	94	77	120%	122%	121%
13	500	483	89	69	103%	129%	107%
14+	15,204	13,659	1,350	1,476	111%	91%	109%
Total	25,331	24,835	3,611	3,594	102%	100%	102%

¹The expected deaths and recoveries are based on current best estimate assumptions.