

Lincoln Benefit Life Company

Company NAIC No. 65595

Home Office: 2940 South 84th Street, Lincoln, NE 68506-4142

Administrative Office: Post Office Box 4243, Woodland Hills, CA 91365-4243

Actuarial Memorandum

November 2019

Nursing Care Only Policy:	Form LB-6301-P-MD(Q)&(NQ)
Comprehensive Long Term Care Policy:	Form LB-6302-P-MD(Q)&(NQ)
Home and Community Based Care Policy:	Form LB-6303-P-MD(Q)&(NQ)

Lincoln Benefit Life Company is requesting a rate increase on the above listed long-term care policy forms. These policy forms were issued in Maryland from 1999 to 2004 under the product name “Senior Linc”. Midway through this issue period, certain contracts (referred to as “enhanced”) were issued with additional benefits and different rates for the benefit increase riders. Both pre-enhanced and enhanced policies are included in the scope of this filing. These policy forms are no longer being marketed.

1. Purpose of Filing

This is a rate increase filing for existing Long-Term Care (LTC) policy forms. This actuarial memorandum has been prepared for the purpose of demonstrating that the requested rate increase meets the minimum requirements of the 2014 National Association of Insurance Commissioners (NAIC) Long-Term Care Insurance Model Regulation and the applicable regulatory requirements of this jurisdiction. It may not be suitable for other purposes.

2. Scope of Filing

This filing applies to the Company’s LTC policy forms as specified above. These forms provide daily benefit for qualified long-term care services in various settings, as summarized in Exhibit A, when the insured meets policy benefit qualification requirements.

All forms included in this filing are individual LTC policies that are guaranteed renewable for life, subject to the Company’s right to change premium rates.

These policy forms were issue age rated and fully underwritten. The issue ages were from 40 to 84 on an age nearest birthday basis, except for endorsed groups where the issue age range was 18 to 84 in some jurisdictions. Strict underwriting criteria were administered with frequent utilization of medical records and paramedical functional assessments, personal history interviews and MIB searches.

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These policy forms were marketed by individual agents of Lincoln Benefit Life Company.

The proposed rate increase is applicable to all inforce policies as these forms are no longer being marketed.

Paid-up policies will not receive a rate increase. Single-pay and 10-pay policies are not included in the scope of this filing.

The number of policyholders and annual inforce premium as of December 2018 are displayed in Exhibit B, which also shows the average annual premium before and after the proposed rate increase.

3. Reason for the Increase

A rate increase is necessary at this time due to significantly higher anticipated future and lifetime loss ratios. The higher loss ratios are a result of a combination of lower lapse, lower death, and longer claim continuance.

The Company has been evaluating this LTCi block and updating assumptions based on the actual experience as well as the LTCi industry experience. For the policy forms specified above, projected experience is now worse than what original pricing assumptions were projecting. The combined effect of updating the lapse, mortality and morbidity assumptions to better reflect the actual experience, as well as industry data, resulted in the need for a rate increase.

The current premium levels are inadequate. Therefore, the Company is requesting a rate increase to help alleviate the adverse performance on this block of business. Implementing a necessary rate increase earlier reduces the amount of the rate increase.

4. Requested Rate Increase

The Company is requesting the approval of a flat increase of 15% on the current base rates. The increase does not vary by issue age or other policy characteristics. The new premium for any contract is equal to the product of the contract's current premium and one plus the base premium increase percentage. Paid-up policies will not be affected by the rate increase.

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Please see Exhibits B1–B3 for rate tables reflecting the rate increase:

- B1 LB-6301-P-MD proposed rates
- B2 LB-6302-P-MD proposed rates
- B3 LB-6303-P-MD proposed rates

Please note that the actual rates implemented may vary from those in rate pages slightly due to implementation rounding algorithms.

5. History of Previous Rate Revisions

The first rate increase was approved on August 23, 2007 for these forms with a cap of 15%. Three other flat rate increases of 15%, 15% and 10% were approved on July 23, 2009, April 5, 2016 and December 6, 2018 respectively.

6. Actuarial Assumptions

a. Interest

The maximum valuation interest rate for contract reserves, 4.5%, has been used for accumulating historical experience and for discounting projected future experience.

b. Lapse

The current best estimate ultimate lapse rate is assumed to be 1.0%, formulated by analyzing the trend in lapse rates of later durations. Exhibit C shows the comparison of actual and expected lapses based on best estimate assumptions for these policy forms.

c. Mortality

The current best estimate mortality assumptions are based on experience from the reinsurer's entire similarly underwritten and administered block of LTC policies. The attained age mortality is assumed to be 85% of the 1994 Group Annuity Mortality Table for ages 85 and younger, graded to 100% of the 1994 Group Annuity Mortality Table at ages 90 and older, with duration selection factors, varied by single vs. joint, shown in Exhibit D1. Mortality selection factors for Single grade from 16.5% to 100% over 21 years, while selection factors for Joint grade from

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9.5% to 100% over 25 years. No mortality improvement is assumed in the projections.

Exhibit D2 shows the comparison of actual and expected deaths based on best estimate assumptions for the combined reinsurer's block of LTC policies.

d. Morbidity

The current best estimate morbidity assumptions are also based on the reinsurer's combined experience. Studies are performed for incidence, continuance, and recovery from claim data. Incidence rates by gender, marital status, and attained age have been developed.

Claim termination rates are derived from reinsurer data that has been credibility blended with the latest industry data. Recovery and return to active status is based on the policyholder's attained age at the time his/her claim is incurred, grading down from 59% of all claims at age 40, to 8.5% at age 99, and then 0% at age 120. Utilization factors are then applied to the claim costs as follows: 69% for COLA reimbursement policies and 86% for non-COLA reimbursement policies. No underwriting selection durational factors or morbidity improvement are assumed in the projections.

Policy design features have been taken into consideration. Benefit provisions, 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.

Exhibit E1 shows the best estimate incidence rates by gender and partner status. Exhibit E2 demonstrates the best estimate length of stay for lifetime benefit period, 90-day elimination period policies with and without 5% Compound Inflation Protection.

Exhibits E3 and E4 contain the analysis of actual to expected incidence and termination, with expected based on best estimate assumptions for the combined reinsurer block of LTC policies.

e. Expenses

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

f. Rate Increase Impact on Policyholder Behavior

Premium rate increases on long-term care policies may induce some policyholders to seek a reduction in benefits or to lapse their policy. Similarly, policyholders who accept the rate increase and remain in force or retain their full benefits may exhibit some morbidity anti-

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selection, understanding that they may need the long-term care benefits in the future. All else equal, additional lapses or benefit reductions on a long-term care block of policies is financially favorable to the Company, while anti-selection is unfavorable to the Company.

The projections in Exhibits F1 and F2 do not include either the assumption of additional lapses and reduction in benefits or the assumption of anti-selection. We assume for the purpose of this rate increase that the two impacts offset each other.

The above discussed current best estimate assumptions are based on the experience of the company, reinsurer and industry experience, and judgement. The best estimate assumptions reflect an estimate of the most likely outcome and do not include an explicit margin for conservatism.

7. Area Factors and Trend Assumptions

Area factors were not used in pricing for the above-listed policy forms. As this is not medical insurance, an explicit medical cost trend is not included in the projections.

8. 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 (IBNR) balances as of December 31, 2018 have been allocated to a calendar year of incurral and included in historical incurred claims. Paid claims have been discounted to the incurral date and included in historical incurred claims. Claim reserves are calculated for active and pending claimants as present value of benefit payments discounted by interest and terminations. The IBNR is based on lag factors which are applied to the claim reserves and survivor payments based on the difference between the incurral date and the valuation date.

9. Past and Future Policy Experience

Earned premiums and incurred claims for projection years 2019 through 2058 are developed from an active lives model representing actual contracts inforce as of December 31, 2018. The best estimate assumptions

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described above for morbidity, voluntary lapse, and mortality are used to project earned premiums and incurred claims.

Nationwide and statewide historical experience and projections before and after proposed rate increase are shown in Exhibits F1 and F2 respectively.

Historical experience is shown by claim incurral year with the loss ratio for each loss year calculated by the following formula:

$$LR_j = \frac{\sum_{t=j}^{2018} Pmt_t^j \times v^{t-j} + {}_jCR_{2018} \times v^{2018-j+0.5} + {}_jIBNR_{2018} \times v^{2018-j+0.5}}{EP_j}$$

LR_j = loss ratio for year j

Pmt_t^j = claim payments in year t on claims incurred in year j , assumed to occur mid-year

${}_jCR_{2018}$ = claim reserve held on December 31, 2018 for claims incurred in year j

${}_jIBNR_{2018}$ = incurred but not reported reserve as of December 31, 2018 attributable to claims incurred in year j

EP_j = earned premium in year j , assumed mid-year

j = year of incurral

$v = 1 / 1.045 = 0.956938$

Future anticipated loss ratio is calculated, with and without interest, as anticipated incurred claims divided by earned premiums. 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 maximum valuation interest rate 4.5%.

10. Analysis Performed

The originally approved premium schedule was based on pricing assumptions believed to be appropriate, given industry experience available when the originally approved rate schedule was developed. The original pricing assumptions for voluntary lapse, mortality and claim costs were as follows:

- a. Original Pricing Ultimate Lapse: 5%
- b. Original Pricing Mortality: 1975-80 Select and Ultimate

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c. Original Pricing Morbidity

Original pricing claim costs for skilled, intermediate and Facility Care Benefits are derived from The Reports of the Society of Actuaries based on the 1985 National Nursing Home Survey Utilization Data in Transactions, Society of Actuaries, 1988-89-90 Reports; and the Long Term Care Intercompany Study: 1984-1991 Experience in Transactions, Society of Actuaries, 1993-94 Reports. Claim costs factors shown in the original actuarial memorandum are applied to the inforce lives and represent the expected cost per life of incurred benefits.

Original pricing claim costs for Home and Community Based Care are decreasing percentages of Facility Care claims costs derived from information provided by a reinsurer.

Underwriting selection durational factors are 10%, 20%, 40%, 60%, 80%, 100% for durations 6 and later.

d. Original Pricing Interest

Pre-enhanced policies: 7.5%

Enhanced policies: 7.0%

As part of the inforce management of the business, the reinsurer and administrator of the business monitor the performance of the business by completing periodic actual-to-expected analysis for voluntary lapse, mortality, claim incidence, and claim length of stay. The findings from these analyses were used in projecting the inforce business to determine the effect of experience on the projected lifetime loss ratio. An analysis of the projected lifetime loss ratio based on current best estimate assumptions compared to that assumed at the time of original pricing revealed that experience has deteriorated significantly.

The best estimate assumptions used in this filing (described in Section 6) are based on actual inforce experience of the Company, experience of reinsurer's similarly underwritten and administered LTC products, industry experience, and judgement. Actual persistency and claim continuance have been higher than what were assumed in original pricing.

11. Loss Ratio Requirement Compliance Demonstration

This filing uses the pooled experience of all policy forms specified at the beginning of this actuarial

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memorandum. Pooling these forms' experience is appropriate as they provide similar benefits and were issued during the same period. It is consistent with how the Company manages this block of business, and combining experience increases credibility.

Exhibits F1 (nationwide) and F2 (statewide) show actual and projected experience using current best estimate assumptions. Actual experience is provided from inception through 2018 and then projected on a seriatim basis for 40 years using the current assumptions described above in Section 6. Included in Exhibits F1 and F2 are calendar year earned premiums, incurred claims, annual loss ratios, and cumulative loss ratios. As shown in Exhibits F1 and F2, the anticipated lifetime loss ratios with the requested rate increase exceed the minimum loss ratio required by pre-rate stability regulation.

12. Proposed Effective Date

The rate increase will apply to policies on their policy anniversary date following at least a 60-day policyholder notification period after approval.

13. Nationwide Distribution of Business as of December 31, 2018

As of December 31, 2018, the number of policies in force that will be affected by this increase by policy form is shown in Exhibits G1 (nationwide) and G2 (statewide).

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14. 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 am familiar with the requirements for filing long-term care insurance premium rate increases.

This memorandum has been prepared in conformity with all applicable Actuarial Standards of Practice, including ASOP No. 8 and No. 18.

The data used to develop this actuarial memorandum was provided by LifeCare Assurance Company, the administrator of the policies, and Employers Reassurance Corporation, the reinsurer of the business. I have reviewed the data for reasonableness.

To the best of my knowledge and judgement, I hereby certify that:

- this rate submission is in compliance with the applicable laws and regulations of the jurisdiction where it is filed;
- policy design, underwriting, and claims adjudication practices have been taken into consideration;
- the rates are not excessive or unfairly discriminatory, and bear reasonable relationship to the benefits based on the loss ratio standards of this jurisdiction;
- this filing will enhance premium adequacy, but may not be sufficient to prevent future rate action. Additional rate increases are needed to certify the rates will remain stable under moderately adverse conditions; and
- the relationship between renewal premium rate schedules and new business premium rate schedules is not applicable because the company is no longer marketing new business in any states.



Xiaoyan Song, FSA, MAAA, FLMI, LTCP
Consulting Actuary

Lincoln Benefit Life Company
Policy Form: LB-6301, LB-6302, LB-6303

Exhibit A: Benefit Summary
 (does not reflect state variations)

Benefits	Benefit Description
General Information	
Issue Age	40-84 age nearest birthday
Benefit Periods	3-year, 5-year & Lifetime
Risk Classes	Preferred Non-smoker, Preferred & Standard
Benefit Type	Reimbursement (optional Indemnity Rider)
Elimination Periods	0, 30 & 90 days
Elimination Period Cumulative	Yes
Personal Care Advisor	Yes
Alternative Plan of Care	Yes
Benefit Triggers	2 of 6 ADL's or Cognitive Impairment
Base Policy Benefits	
Nursing Care (In A Nursing or Assisted Living Facility)	
Waiver of Premium	After 60 days of care
Bed Reservation (up to 21 days per calendar year)	100% of daily benefit
Home & Community Based Care Benefit	
Waiver of Premium	By Rider Only
Professional Services	50% or 100% of daily benefit
Homemaker Services	50% or 100% of daily benefit
Adult Day Care & Hospice Care	50% or 100% of daily benefit
Respite Care (up to 14 days per calendar year)	50% or 100% of daily benefit
Optional Riders/Payment Options	
Compound Benefit Increase (5%)	Yes
Simple Benefit Increase (5%)	Yes
HCBC Indemnity Rider	Available to Comprehensive LTC policies only
Single Premium Payment Option	Not available to HCBC policies
10-Year Premium Payment Option	Not available to HCBC policies
Full Nonforfeiture Rider	Yes
Limited Nonforfeiture Rider	Yes
Shortened Benefit Period Nonforfeiture Rider	Yes
HCBC Waiver of Premium Benefit Rider	Available to Comprehensive LTC policies only
Paid-up Survivor Benefit Rider	Yes
Assisted Living Facility Benefit Rider	Available to HCBC policies only

Lincoln Benefit Life Company
Policy Form: LB-6301, LB-6302, LB-6303

Exhibit B: Policies Inforce, Annual Premium and Average Premium

Nationwide	Cost of Living Adjustment			Total
	None	Simple	Compound	
Number of Policies	2,366	1,092	10,329	13,787
Current Premium	\$4,804,212	\$3,185,141	\$33,914,056	41,903,409
Current Average Premium	\$2,031	\$2,917	\$3,283	3,039
New Premium	\$5,524,844	\$3,662,913	\$39,001,164	48,188,920
New Average Premium	\$2,335	\$3,354	\$3,776	3,495
Average Rate Increase	15.00%	15.00%	15.00%	15.00%

Maryland	Cost of Living Adjustment			Total
	None	Simple	Compound	
Number of Policies	31	17	239	287
Current Premium	\$76,416	\$46,025	\$789,458	911,899
Current Average Premium	\$2,465	\$2,707	\$3,303	3,177
New Premium	\$87,878	\$52,929	\$907,877	1,048,684
New Average Premium	\$2,835	\$3,113	\$3,799	3,654
Average Rate Increase	15.00%	15.00%	15.00%	15.00%

**Lincoln Benefit Life Company
LB-6301-P-MD(Q)&(NQ)**

**Exhibit B1: Proposed Rates and Factors After 15% Increase
Individual Coverage / Preferred Risk Class / Lifetime Benefit Period / 90 Day Elimination Period**

Issue Age	Nursing Care \$10 Daily Benefit	Other Riders	Benefit Increase Factors	
		Shortened Benefit Period	Lifetime Pay	
			Compound	Simple
40	40.65	1.600	3.248	2.343
41	42.00	1.600	3.194	2.279
42	43.35	1.600	3.141	2.215
43	44.71	1.600	3.088	2.151
44	46.06	1.600	3.035	2.087
45	47.41	1.600	2.981	2.055
46	50.14	1.600	2.928	2.023
47	52.83	1.600	2.875	1.991
48	55.54	1.600	2.822	1.959
49	58.24	1.600	2.769	1.927
50	60.97	1.600	2.715	1.895
51	65.03	1.600	2.662	1.868
52	69.10	1.600	2.556	1.840
53	73.16	1.600	2.449	1.812
54	77.23	1.600	2.343	1.785
55	81.29	1.600	2.236	1.757
56	89.43	1.600	2.130	1.725
57	97.56	1.530	2.023	1.693
58	105.68	1.514	1.917	1.661
59	113.81	1.498	1.810	1.629
60	121.95	1.482	1.703	1.597
61	135.50	1.466	1.683	1.580
62	149.06	1.450	1.661	1.563
63	162.59	1.424	1.640	1.546
64	176.15	1.398	1.619	1.529
65	189.70	1.372	1.597	1.512
66	216.79	1.346	1.576	1.495
67	243.91	1.320	1.555	1.478
68	271.00	1.296	1.533	1.460
69	298.10	1.272	1.512	1.430
70	325.20	1.248	1.491	1.400
71	365.87	1.224	1.469	1.390
72	406.51	1.200	1.448	1.380
73	447.18	1.184	1.427	1.370
74	487.83	1.168	1.406	1.360
75	528.48	1.152	1.384	1.350
76	609.78	1.136	1.374	1.340
77	691.10	1.120	1.363	1.330
78	772.40	1.116	1.352	1.320
79	853.70	1.112	1.341	1.310
80	935.01	1.108	1.331	1.300
81	1,016.32	1.104	1.320	1.290
82	1,097.61	1.100	1.310	1.280
83	1,178.93	1.090	1.299	1.270
84	1,260.23	1.085	1.289	1.260

Issue Age Independent Factors

Risk Classes		Elimination Period		Payment Mode	
Preferred Nonsmoker	0.80	90-Day	1.00	Monthly	0.085
Preferred	1.00	30-Day	1.10	Quarterly	0.270
Standard	1.20	0-Day	1.20	Semi-Annual	0.520
				Annual	1.000
Joint Coverage Risk Class *		Benefit Period		Endorsed Group Discount	
2 Preferred Nonsmokers	0.80	3-Yr Benefit Period	0.70	Ages 40-64	0.85
1 Preferred Nonsmoker / 1 Preferred	0.90	5-Yr Benefit Period	0.90	Ages 65-84	0.90
2 Preferreds	1.00				
1 Preferred Nonsmoker / 1 Standard	1.00				
1 Preferred / 1 Standard	1.10				
2 Standards	1.20				

* Premiums for various joint combinations are calculated as 150% of the base policy premium of the older insured, times the Joint Coverage Risk Class factor

**Lincoln Benefit Life Company
LB-6302-P-MD(Q)&(NQ)**

**Exhibit B2: Proposed Rates and Factors After 15% Increase
Individual Coverage / Preferred Risk Class / Lifetime Benefit Period / 90 Day Elimination Period**

Issue Age	Comprehensive LTC		Other Riders	Benefit Increase Factors	
	\$10 NC + \$10 HCBC Daily Benefit	\$10 NC + \$5 HCBC Daily Benefit	Shortened Benefit Period	Lifetime Pay	
				Compound	Simple
40	60.97	50.81	1.600	3.248	2.343
41	63.00	52.50	1.600	3.194	2.279
42	65.03	54.18	1.600	3.141	2.215
43	67.07	55.87	1.600	3.088	2.151
44	69.10	57.58	1.600	3.035	2.087
45	71.13	59.28	1.600	2.981	2.055
46	75.19	62.66	1.600	2.928	2.023
47	79.26	66.05	1.600	2.875	1.991
48	83.32	69.44	1.600	2.822	1.959
49	87.41	72.82	1.600	2.769	1.927
50	91.47	76.19	1.600	2.715	1.895
51	97.56	81.29	1.600	2.662	1.868
52	103.67	86.37	1.600	2.556	1.840
53	109.74	91.47	1.600	2.449	1.812
54	115.85	96.54	1.600	2.343	1.785
55	121.95	101.61	1.600	2.236	1.757
56	134.14	111.78	1.600	2.130	1.725
57	146.33	121.95	1.530	2.023	1.693
58	158.53	132.12	1.514	1.917	1.661
59	170.72	142.27	1.498	1.810	1.629
60	182.93	152.45	1.482	1.703	1.597
61	203.25	169.38	1.466	1.683	1.580
62	223.58	186.33	1.450	1.661	1.563
63	243.91	203.25	1.424	1.640	1.546
64	264.22	220.19	1.398	1.619	1.529
65	284.56	237.13	1.372	1.597	1.512
66	325.20	271.00	1.346	1.576	1.495
67	365.87	304.88	1.320	1.555	1.478
68	406.51	338.77	1.296	1.533	1.460
69	447.18	372.63	1.272	1.512	1.430
70	487.83	406.51	1.248	1.491	1.400
71	548.80	457.34	1.224	1.469	1.390
72	609.78	508.15	1.200	1.448	1.380
73	670.76	558.96	1.184	1.427	1.370
74	731.74	609.78	1.168	1.406	1.360
75	792.71	660.60	1.152	1.384	1.350
76	914.67	762.23	1.136	1.374	1.340
77	1,036.64	863.88	1.120	1.363	1.330
78	1,158.59	965.50	1.116	1.352	1.320
79	1,280.57	1,067.13	1.112	1.341	1.310
80	1,402.51	1,168.76	1.108	1.331	1.300
81	1,524.48	1,270.40	1.104	1.320	1.290
82	1,646.43	1,372.04	1.100	1.310	1.280
83	1,768.40	1,473.66	1.090	1.299	1.270
84	1,890.34	1,575.30	1.085	1.289	1.260

Issue Age Independent Factors

Risk Classes		Elimination Period		Payment Mode		
Preferred Nonsmoker	0.80	90-Day	1.00	Monthly		0.085
Preferred	1.00	30-Day	1.10	Quarterly		0.270
Standard	1.20	0-Day	1.20	Semi-Annual		0.520
				Annual		1.000
Joint Coverage Risk Class *		Benefit Period		Waiver of Premium Rider		
2 Preferred Nonsmokers	0.80	3-Yr Benefit Period	0.70	Enhanced	50% HCBC	1.10
1 Preferred Nonsmoker / 1 Preferred	0.90	5-Yr Benefit Period	0.90		100% HCBC	1.15
2 Preferreds	1.00					
1 Preferred Nonsmoker / 1 Standard	1.00					
1 Preferred / 1 Standard	1.10					
2 Standards	1.20					
		HCBC Indemnity Rider		Pre-Enhanced	50% HCBC	1.15
		Enhanced	1.12		100% HCBC	1.20
		Pre-Enhanced	1.16			

* Premiums for various joint combinations are calculated as 150% of the base policy premium of the older insured, times the Joint Coverage Risk Class factor

**Lincoln Benefit Life Company
LB-6303-P-MD(Q)&(NQ)**

**Exhibit B3: Proposed Rates and Factors After 15% Increase
Individual Coverage / Preferred Risk Class / Lifetime Benefit Period**

Issue Age	HCBC			Other Riders	Benefit Increase Factors			
	\$10 Daily Benefit 90-day EP	\$10 Daily Benefit 30-day EP	\$10 Daily Benefit 0-day EP		Shortened Benefit Period	Compound 90-day EP	Simple 90-day EP	Compound 0-day, 30-day EP
40	29.31	33.71	36.77	1.600	3.189	2.300	3.050	2.200
41	30.30	34.83	37.99	1.600	3.136	2.237	3.000	2.140
42	31.28	35.96	39.23	1.600	3.084	2.175	2.950	2.080
43	32.23	37.08	40.44	1.600	3.032	2.112	2.900	2.020
44	33.22	38.22	41.69	1.600	2.980	2.049	2.850	1.960
45	34.20	39.34	42.91	1.600	2.927	2.018	2.800	1.930
46	36.14	41.57	45.35	1.600	2.875	1.986	2.750	1.900
47	38.12	43.83	47.82	1.600	2.823	1.955	2.700	1.870
48	40.06	46.08	50.26	1.600	2.770	1.924	2.650	1.840
49	42.03	48.33	52.71	1.600	2.718	1.892	2.600	1.810
50	43.98	50.57	55.18	1.600	2.666	1.861	2.550	1.780
51	46.90	53.95	58.86	1.600	2.614	1.834	2.500	1.750
52	49.85	57.32	62.52	1.600	2.509	1.807	2.400	1.730
53	52.78	60.68	66.21	1.600	2.405	1.779	2.300	1.700
54	55.71	64.05	69.88	1.600	2.300	1.752	2.200	1.680
55	58.63	67.44	73.56	1.600	2.195	1.725	2.100	1.650
56	64.52	74.18	80.91	1.600	2.091	1.694	2.000	1.620
57	70.38	80.92	88.29	1.530	1.986	1.662	1.900	1.590
58	76.24	87.68	95.65	1.514	1.882	1.631	1.800	1.560
59	82.11	94.41	103.01	1.498	1.777	1.600	1.700	1.530
60	87.97	101.16	110.36	1.482	1.673	1.568	1.600	1.500
61	97.76	112.41	122.63	1.466	1.652	1.551	1.580	1.480
62	107.52	123.64	134.88	1.450	1.631	1.535	1.560	1.470
63	117.31	134.88	147.15	1.424	1.610	1.518	1.540	1.450
64	127.08	146.15	159.44	1.398	1.589	1.501	1.520	1.440
65	136.85	157.37	171.69	1.372	1.568	1.485	1.500	1.420
66	156.41	179.86	196.22	1.346	1.547	1.468	1.480	1.400
67	175.97	202.35	220.75	1.320	1.526	1.451	1.460	1.390
68	195.52	224.84	245.29	1.296	1.505	1.434	1.440	1.370
69	215.06	247.33	269.82	1.272	1.485	1.418	1.420	1.360
70	234.62	269.82	294.34	1.248	1.464	1.400	1.400	1.340
71	263.94	303.53	331.13	1.224	1.443	1.388	1.380	1.330
72	293.28	337.27	367.93	1.200	1.422	1.376	1.360	1.320
73	322.60	370.99	404.71	1.184	1.401	1.363	1.340	1.300
74	351.95	404.73	441.51	1.168	1.380	1.351	1.320	1.290
75	381.28	438.46	478.31	1.152	1.359	1.338	1.300	1.280
76	439.93	505.90	551.88	1.136	1.349	1.328	1.290	1.270
77	498.57	573.37	625.49	1.120	1.338	1.317	1.280	1.260
78	557.23	640.81	699.08	1.116	1.328	1.307	1.270	1.250
79	615.89	708.29	772.68	1.112	1.317	1.296	1.260	1.240
80	674.55	775.73	846.25	1.108	1.307	1.286	1.250	1.230
81	733.21	843.19	919.85	1.104	1.296	1.275	1.240	1.220
82	791.86	910.63	993.43	1.100	1.285	1.265	1.230	1.210
83	850.54	978.10	1,067.03	1.090	1.276	1.255	1.220	1.200
84	909.19	1,045.55	1,140.61	1.085	1.265	1.244	1.210	1.190

Issue Age Independent Factors

Risk Classes		Payment Mode	
Preferred Nonsmoker	0.80	Monthly	0.085
Preferred	1.00	Quarterly	0.270
Standard	1.20	Semi-Annual	0.520
		Annual	1.000
Joint Coverage Risk Class **		Benefit Period	
2 Preferred Nonsmokers	0.80	3-Yr Benefit Period	0.70
1 Preferred Nonsmoker / 1 Preferred	0.90	5-Yr Benefit Period	0.90
2 Preferreds	1.00	Endorsed Group Discount	
1 Preferred Nonsmoker / 1 Standard	1.00	Ages 40-64	0.85
1 Preferred / 1 Standard	1.10	Ages 65-84	0.90
2 Standards	1.20		

* HCBC with Assisted Living Facility Benefit Rider, multiply base rates by 1.20

** Premiums for various joint combinations are calculated as 150% of the base policy premium of the older insured, times the Joint Coverage Risk Class factor

Lincoln Benefit Life Company
Policy Form: LB-6301, LB-6302, LB-6303

Exhibit C
Lapse Actual to Expected (Best Estimate) Analysis

Duration	Exposure*	Lapses	Actual Lapse Rates	Best Estimate Lapse Rates	A/E
1	31,171	1,636	5.25%	5.00%	105%
2	29,593	1,129	3.82%	3.75%	102%
3	28,538	747	2.62%	2.50%	105%
4	27,799	477	1.72%	1.75%	98%
5	27,259	362	1.33%	1.50%	89%
6	26,695	336	1.26%	1.25%	101%
7	25,926	320	1.23%	1.00%	123%
8	25,126	318	1.27%	1.00%	127%
9	24,454	264	1.08%	1.00%	108%
10	23,802	195	0.82%	1.00%	82%
11	23,230	177	0.76%	1.00%	76%
12	22,730	174	0.77%	1.00%	77%
13	22,183	177	0.80%	1.00%	80%
14	21,542	139	0.65%	1.00%	65%
15	19,901	129	0.65%	1.00%	65%
16	16,075	97	0.60%	1.00%	60%
17	10,048	62	0.62%	1.00%	62%
18	5,946	37	0.62%	1.00%	62%
19	3,171	20	0.63%	1.00%	63%
20	988	5	0.51%	1.00%	51%
21	41	0	0.00%	1.00%	0%
Total/Average	416,216	6,801	1.63%	1.70%	96%

*Policy Form: LB-6301, LB-6302, LB-6303 Lifetime Pay Policies Only

Lincoln Benefit Life Company

Exhibit D1: Mortality Selection Factors

Policy Duration	Selection Factors	
	Single	Joint
1	0.165	0.095
2	0.335	0.135
3	0.390	0.225
4	0.425	0.240
5	0.470	0.280
6	0.485	0.320
7	0.520	0.330
8	0.530	0.370
9	0.600	0.380
10	0.610	0.390
11	0.630	0.410
12	0.670	0.435
13	0.680	0.455
14	0.760	0.490
15	0.800	0.500
16	0.850	0.520
17	0.875	0.590
18	0.925	0.610
19	0.930	0.650
20	0.940	0.680
21	1.000	0.820
22	1.000	0.830
23	1.000	0.930
24	1.000	0.960
25	1.000	1.000

**Lincoln Benefit Life Company
Combined Reinsurer Experience**

Exhibit D2: Mortality Actual to Expected (Best Estimate) Analysis

Attained Age	Single Lives Death Counts			Joint Lives Death Counts**			Total Death Counts		
	Actual	Expected*	A/E	Actual	Expected*	A/E	Actual	Expected*	A/E
<40	1	1	85%	1	2	62%	2	3	72%
40-44	1	3	30%	14	7	213%	15	10	151%
45-49	26	13	198%	50	27	186%	76	40	190%
50-54	66	52	127%	154	106	145%	220	158	139%
55-59	180	179	101%	510	375	136%	690	554	125%
60-64	455	526	86%	1,163	1,091	107%	1,618	1,617	100%
65-69	849	1,119	76%	1,894	2,232	85%	2,743	3,351	82%
70-74	1,402	1,601	88%	2,890	3,019	96%	4,292	4,620	93%
75-79	1,810	1,985	91%	3,409	3,306	103%	5,219	5,291	99%
80-84	2,202	2,082	106%	3,174	2,846	112%	5,376	4,928	109%
85-89	1,792	1,666	108%	1,998	1,595	125%	3,790	3,260	116%
90+	1,295	1,092	119%	707	572	124%	2,002	1,664	120%
Total	10,079	10,319	98%	15,964	15,178	105%	26,043	25,497	102%

* Expected - 85% of 94 GAM and graded to 100% from ages 85 to 90 with selection

** Joint lives - joint policy at issue

**Lincoln Benefit Life Company
Policy Form: LB-6301, LB-6302, LB-6303**

Exhibit E1: Incidence Rates Per 100

Best Estimate						
Attained Age	Nursing Facility Care Incidence Rates				Incidence Rate Factors	
	Single Male	Single Female	Married Male	Married Female	Home and Community Based Care and Assisted Living Facility	Assisted Living Facility
40	0.0035	0.0039	0.0008	0.0007	1.550	0.300
41	0.0041	0.0046	0.0010	0.0009	1.550	0.300
42	0.0047	0.0053	0.0012	0.0011	1.550	0.300
43	0.0055	0.0062	0.0014	0.0013	1.550	0.300
44	0.0064	0.0072	0.0017	0.0016	1.550	0.300
45	0.0075	0.0084	0.0020	0.0019	1.550	0.300
46	0.0087	0.0098	0.0024	0.0023	1.550	0.300
47	0.0101	0.0115	0.0029	0.0028	1.550	0.300
48	0.0117	0.0134	0.0035	0.0033	1.550	0.300
49	0.0136	0.0156	0.0042	0.0040	1.550	0.300
50	0.0159	0.0182	0.0050	0.0048	1.550	0.300
51	0.0184	0.0212	0.0060	0.0058	1.550	0.300
52	0.0214	0.0247	0.0072	0.0070	1.550	0.300
53	0.0249	0.0288	0.0086	0.0085	1.550	0.300
54	0.0290	0.0336	0.0103	0.0102	1.550	0.300
55	0.0337	0.0392	0.0124	0.0123	1.550	0.300
56	0.0392	0.0457	0.0148	0.0148	1.550	0.300
57	0.0455	0.0532	0.0178	0.0179	1.550	0.300
58	0.0554	0.0650	0.0223	0.0226	1.436	0.290
59	0.0679	0.0799	0.0282	0.0287	1.311	0.290
60	0.0827	0.0975	0.0354	0.0362	1.206	0.280
61	0.1005	0.1188	0.0444	0.0456	1.111	0.270
62	0.1206	0.1430	0.0549	0.0567	1.045	0.270
63	0.1456	0.1732	0.0684	0.0709	0.969	0.260
64	0.1780	0.2124	0.0862	0.0899	0.872	0.260
65	0.2158	0.2582	0.1078	0.1130	0.795	0.250
66	0.2607	0.3128	0.1342	0.1415	0.728	0.240
67	0.3134	0.3771	0.1664	0.1763	0.671	0.240
68	0.3775	0.4555	0.2067	0.2201	0.613	0.230
69	0.4552	0.5508	0.2570	0.2751	0.555	0.230
70	0.5461	0.6627	0.3179	0.3421	0.507	0.220
71	0.6509	0.7921	0.3907	0.4226	0.470	0.220
72	0.7661	0.9349	0.4741	0.5156	0.452	0.210
73	0.9076	1.1107	0.5791	0.6331	0.425	0.210
74	1.0763	1.3209	0.7081	0.7783	0.397	0.200
75	1.2769	1.5715	0.8662	0.9571	0.369	0.200
76	1.5156	1.8705	1.0601	1.1775	0.341	0.190
77	1.7860	2.2105	1.2881	1.4383	0.323	0.190
78	2.1051	2.6128	1.5654	1.7572	0.305	0.190
79	2.4625	3.0651	1.8881	2.1307	0.297	0.180
80	2.9032	3.6239	2.2952	2.6038	0.279	0.180
81	3.4235	4.2855	2.7907	3.1826	0.261	0.170
82	4.0056	5.0284	3.3668	3.8598	0.253	0.170
83	4.7249	5.9480	4.0948	4.7193	0.235	0.170
84	5.5290	6.9801	4.9407	5.7242	0.227	0.160
85	6.4703	8.1915	5.9615	6.9435	0.219	0.160
86	6.8761	8.6235	6.3562	7.3582	0.212	0.150
87	7.3137	9.0862	6.7829	7.8044	0.204	0.150
88	7.7794	9.5740	7.2385	8.2780	0.196	0.150
89	8.2752	10.0886	7.7251	8.7807	0.188	0.140
90	8.8030	10.6312	8.2448	9.3144	0.180	0.140
91	9.2856	11.1088	8.7253	9.7974	0.182	0.140
92	9.8782	11.7067	9.3126	10.3932	0.174	0.130
93	10.5091	12.3374	9.9399	11.0258	0.166	0.130
94	11.0756	12.8803	10.5100	11.5874	0.169	0.130
95	11.6826	13.4587	11.1225	12.1880	0.171	0.130
96	12.4289	14.1841	11.8718	12.9301	0.163	0.120
97	13.0988	14.8082	12.5527	13.5886	0.166	0.120
98	13.8167	15.4730	13.2841	14.2929	0.168	0.120
99	14.5615	16.1540	14.0462	15.0209	0.171	0.110
100	15.3466	16.8651	14.8521	15.7861	0.174	0.110
101	16.1879	17.6226	15.7176	16.6045	0.176	0.110
102	17.0609	18.3985	16.6196	17.4506	0.179	0.110
103	17.9962	19.2249	17.5883	18.3555	0.181	0.100
104	18.9669	20.0716	18.5978	19.2910	0.184	0.100
105	19.9901	20.9557	19.6654	20.2743	0.187	0.100
106	21.0863	21.8973	20.8118	21.3258	0.189	0.100
107	22.2240	22.8621	22.0067	22.4131	0.192	0.100
108	23.4233	23.8695	23.2704	23.5560	0.195	0.100
109	24.7081	24.9423	24.6273	24.7779	0.197	0.100
110	26.0417	26.0417	26.0417	26.0417	0.200	0.100

Lincoln Benefit Life Company
Policy Form: LB-6301, LB-6302, LB-6303

Exhibit E2: Length of Stay Per \$1 of Daily Benefit

Attained Age	Best Estimate Length of Stay*			
	Male		Female	
	No COLA	5% Compound COLA	No COLA	5% Compound COLA
40	657.68	914.60	671.46	862.32
41	657.68	914.60	671.46	862.32
42	657.68	914.60	671.46	862.32
43	657.68	914.60	671.46	862.32
44	657.68	914.60	671.46	862.32
45	657.68	914.60	671.46	862.32
46	657.68	914.60	671.46	862.32
47	657.68	914.60	671.46	862.32
48	657.68	914.60	671.46	862.32
49	657.68	914.60	671.46	862.32
50	657.68	914.60	671.46	862.32
51	657.68	914.60	671.46	862.32
52	657.68	914.60	671.46	862.32
53	649.68	897.86	643.79	813.94
54	642.05	881.97	624.06	783.77
55	634.77	866.89	605.68	756.03
56	627.83	852.56	588.48	730.40
57	621.21	838.95	572.34	706.65
58	614.89	826.02	557.14	684.55
59	608.86	813.73	542.77	663.90
60	603.10	802.04	529.15	644.56
61	597.59	790.93	516.21	626.36
62	592.32	780.36	503.89	609.20
63	598.15	779.79	533.27	644.42
64	605.41	781.20	564.62	682.10
65	614.11	784.55	598.09	722.45
66	624.26	789.82	633.85	765.70
67	635.85	796.99	677.51	824.27
68	615.94	755.13	699.34	844.71
69	600.38	722.62	724.30	870.87
70	588.16	697.20	750.74	898.92
71	578.53	677.19	778.69	928.84
72	570.94	661.35	808.18	960.63
73	566.37	645.00	815.05	965.04
74	567.57	643.34	822.53	970.39
75	569.47	642.82	830.58	976.60
76	571.96	643.24	839.16	983.61
77	574.96	644.45	849.38	994.20
78	574.83	642.01	852.50	994.71
79	575.59	641.24	856.05	995.82
80	576.67	640.88	860.02	997.50
81	578.03	640.92	864.39	999.74
82	579.68	641.33	869.16	1,002.52
83	565.68	622.01	851.36	971.65
84	554.92	608.01	840.86	955.39
85	545.15	595.41	831.61	941.04
86	536.20	583.95	823.41	928.25
87	527.95	573.45	816.11	916.79
88	509.29	550.33	779.39	870.24
89	494.17	532.30	746.39	828.95
90	480.29	515.83	716.44	791.86
91	467.49	500.71	689.11	758.30
92	455.64	486.79	664.02	727.77
93	455.64	486.79	664.02	727.77
94	455.64	486.79	664.02	727.77
95	455.64	486.79	664.02	727.77
96	455.64	486.79	664.02	727.77
97	455.64	486.79	664.02	727.77
98	455.64	486.79	664.02	727.77
99	455.64	486.79	664.02	727.77
100	455.64	486.79	664.02	727.77
101	455.64	486.79	664.02	727.77
102	455.64	486.79	664.02	727.77
103	455.64	486.79	664.02	727.77
104	455.64	486.79	664.02	727.77
105	455.64	486.79	664.02	727.77
106	455.64	486.79	664.02	727.77
107	455.64	486.79	664.02	727.77
108	455.64	486.79	664.02	727.77
109	455.64	486.79	664.02	727.77
110	455.64	486.79	664.02	727.77

* Based on SOA LTC Intercompany 2000-2011 Study and reinsurer's experiences, 4.5% interest, Lifetime Benefits, 90 Day Elimination Period

**Lincoln Benefit Life Company
Combined Reinsurer Experience**

Exhibit E3: Incidence Actual to Expected (Best Estimate) Analysis

Attained Age	Single Male				Single Female			
	Exposure	Actual Claim Count	Expected Claim Count	A/E	Exposure	Actual Claim Count	Expected Claim Count	A/E
40-44	1,179	0	0	0%	1,462	0	0	0%
45-49	3,700	5	1	608%	5,699	7	1	479%
50-54	8,678	6	4	147%	16,582	24	9	264%
55-59	18,253	33	18	183%	39,710	62	46	134%
60-64	29,977	65	62	105%	71,865	194	177	110%
65-69	37,945	162	164	99%	96,385	507	501	101%
70-74	35,298	310	316	98%	92,470	1,013	1,015	100%
75-79	23,976	457	450	102%	67,201	1,571	1,569	100%
80-84	12,732	515	497	104%	38,817	1,937	1,919	101%
85-89	4,959	400	346	116%	17,502	1,746	1,525	114%
90+	696	92	67	137%	3,003	497	343	145%
Total	177,394	2,045	1,925	106%	450,696	7,558	7,106	106%

Attained Age	Married Male				Married Female			
	Exposure	Actual Claim Count	Expected Claim Count	A/E	Exposure	Actual Claim Count	Expected Claim Count	A/E
40-44	3,861	0	0	0%	7,045	6	0	3406%
45-49	13,391	5	1	569%	21,267	15	1	1128%
50-54	35,278	21	6	368%	51,914	44	8	537%
55-59	83,318	79	33	240%	109,609	115	43	265%
60-64	151,245	216	145	149%	176,000	263	173	152%
65-69	196,472	459	454	101%	197,117	488	479	102%
70-74	172,459	918	957	96%	151,788	877	911	96%
75-79	105,083	1,463	1,412	104%	86,111	1,314	1,287	102%
80-84	45,535	1,486	1,470	101%	35,777	1,348	1,321	102%
85-89	12,731	953	812	117%	9,978	806	735	110%
90+	977	158	87	181%	911	133	91	146%
Total	820,349	5,758	5,376	107%	847,518	5,409	5,049	107%

**Lincoln Benefit Life Company
Combined Reinsurer Experience**

Exhibit E4: Claim Termination Actual to Expected (Best Estimate) Analysis

Duration	Claim Exposure	Actual	Expected	A/E
1st quarter	1,643	477	496	96%
2nd quarter	3,883	651	496	131%
3rd quarter	3,250	289	280	103%
4th quarter	2,876	224	208	108%
2	9,957	2,246	2,264	99%
3	6,738	1,547	1,654	94%
4	4,548	1,406	1,282	110%
5	2,701	676	739	92%
6	1,757	405	457	89%
7	1,167	258	313	82%
8	776	162	198	82%
9	515	107	131	82%
10	343	72	100	72%
11	223	54	57	95%
12	137	35	44	79%
13	84	13	31	42%
14	56	22	17	128%
15	35	14	12	118%
16	20	8	3	288%
17	15	6	3	173%
18	9	4	8	51%
19	3	1	2	40%
20	2	1	2	58%
21	1	1	1	100%
Average	40,740	8,679	8,797	99%

Lincoln Benefit Life Company
Policy Form: LB-6301, LB-6302, LB-6303
All Issue Years

Exhibit F1: Nationwide Experience Projection**

Calendar Year	Before Proposed Increase			After Proposed Increase*			At Year End 2018	4.50% Factor 1.0450
	Earned Premium	Incurred Claims	Loss Ratio	Earned Premium	Incurred Claims	Loss Ratio		
1998	468,385	0	0%	468,385	0	0%	20.5	2.4654
1999	4,486,447	92,404	2%	4,486,447	92,404	2%	19.5	2.3592
2000	10,423,173	1,481,976	14%	10,423,173	1,481,976	14%	18.5	2.2576
2001	18,002,509	1,293,352	7%	18,002,509	1,293,352	7%	17.5	2.1604
2002	27,745,251	2,750,934	10%	27,745,251	2,750,934	10%	16.5	2.0674
2003	38,568,615	2,678,361	7%	38,568,615	2,678,361	7%	15.5	1.9783
2004	43,187,255	7,514,247	17%	43,187,255	7,514,247	17%	14.5	1.8932
2005	43,020,831	7,394,143	17%	43,020,831	7,394,143	17%	13.5	1.8116
2006	41,994,717	10,823,305	26%	41,994,717	10,823,305	26%	12.5	1.7336
2007	42,567,991	16,342,554	38%	42,567,991	16,342,554	38%	11.5	1.6590
2008	43,211,744	17,896,345	41%	43,211,744	17,896,345	41%	10.5	1.5875
2009	44,302,232	16,162,861	36%	44,302,232	16,162,861	36%	9.5	1.5192
2010	45,535,065	17,448,152	38%	45,535,065	17,448,152	38%	8.5	1.4537
2011	46,425,719	29,815,591	64%	46,425,719	29,815,591	64%	7.5	1.3911
2012	46,027,745	28,218,004	61%	46,027,745	28,218,004	61%	6.5	1.3312
2013	43,931,015	25,805,927	59%	43,931,015	25,805,927	59%	5.5	1.2739
2014	42,574,510	41,658,658	98%	42,574,510	41,658,658	98%	4.5	1.2191
2015	41,315,579	42,316,090	102%	41,315,579	42,316,090	102%	3.5	1.1666
2016	41,589,907	40,646,854	98%	41,589,907	40,646,854	98%	2.5	1.1163
2017	42,063,477	53,316,807	127%	42,063,477	53,316,807	127%	1.5	1.0683
2018	41,069,951	60,640,283	148%	41,069,951	60,640,283	148%	0.5	1.0223
2019	39,519,565	57,159,461	145%	39,519,565	57,159,461	145%	-0.5	0.9782
2020	37,016,585	63,601,862	172%	42,569,073	63,601,862	149%	-1.5	0.9361
2021	34,506,743	70,195,336	203%	39,682,755	70,195,336	177%	-2.5	0.8958
2022	32,002,232	76,783,077	240%	36,802,566	76,783,077	209%	-3.5	0.8572
2023	29,512,718	83,178,427	282%	33,939,626	83,178,427	245%	-4.5	0.8203
2024	27,064,052	89,214,669	330%	31,123,660	89,214,669	287%	-5.5	0.7850
2025	24,675,739	94,685,733	384%	28,377,100	94,685,733	334%	-6.5	0.7512
2026	22,366,214	99,458,098	445%	25,721,146	99,458,098	387%	-7.5	0.7188
2027	20,153,010	103,403,222	513%	23,175,962	103,403,222	446%	-8.5	0.6879
2028	18,050,385	106,307,675	589%	20,757,943	106,307,675	512%	-9.5	0.6583
2029	16,069,816	108,035,919	672%	18,480,288	108,035,919	585%	-10.5	0.6299
2030	14,217,311	108,575,793	764%	16,349,907	108,575,793	664%	-11.5	0.6028
2031	12,496,827	107,918,632	864%	14,371,351	107,918,632	751%	-12.5	0.5768
2032	10,910,939	105,930,452	971%	12,547,580	105,930,452	844%	-13.5	0.5520
2033	9,460,731	102,667,972	1085%	10,879,841	102,667,972	944%	-14.5	0.5282
2034	8,145,485	98,370,395	1208%	9,367,307	98,370,395	1050%	-15.5	0.5055
2035	6,962,239	93,232,184	1339%	8,006,575	93,232,184	1164%	-16.5	0.4837
2036	5,906,780	87,303,938	1478%	6,792,798	87,303,938	1285%	-17.5	0.4629
2037	4,973,820	80,823,475	1625%	5,719,893	80,823,475	1413%	-18.5	0.4429
2038	4,156,510	74,074,023	1782%	4,779,987	74,074,023	1550%	-19.5	0.4239
2039	3,447,049	67,245,544	1951%	3,964,106	67,245,544	1696%	-20.5	0.4056
2040	2,836,808	60,520,926	2133%	3,262,329	60,520,926	1855%	-21.5	0.3882
2041	2,316,756	54,020,152	2332%	2,664,270	54,020,152	2028%	-22.5	0.3714
2042	1,877,713	47,846,335	2548%	2,159,370	47,846,335	2216%	-23.5	0.3554
2043	1,510,469	42,030,054	2783%	1,737,039	42,030,054	2420%	-24.5	0.3401
2044	1,206,049	36,653,559	3039%	1,386,956	36,653,559	2643%	-25.5	0.3255
2045	955,904	31,705,288	3317%	1,099,290	31,705,288	2884%	-26.5	0.3115
2046	752,118	27,186,863	3615%	864,936	27,186,863	3143%	-27.5	0.2981
2047	587,484	23,095,902	3931%	675,606	23,095,902	3419%	-28.5	0.2852
2048	455,556	19,442,795	4268%	523,889	19,442,795	3711%	-29.5	0.2729
2049	350,655	16,205,828	4622%	403,254	16,205,828	4019%	-30.5	0.2612
2050	267,882	13,373,464	4992%	308,064	13,373,464	4341%	-31.5	0.2499
2051	203,060	10,927,371	5381%	233,519	10,927,371	4679%	-32.5	0.2392
2052	152,686	8,846,625	5794%	175,589	8,846,625	5038%	-33.5	0.2289
2053	113,842	7,091,874	6230%	130,918	7,091,874	5417%	-34.5	0.2190
2054	84,138	5,623,898	6684%	96,759	5,623,898	5812%	-35.5	0.2096
2055	61,618	4,415,574	7166%	70,860	4,415,574	6231%	-36.5	0.2006
2056	44,693	3,430,147	7675%	51,397	3,430,147	6674%	-37.5	0.1919
2057	32,099	2,634,614	8208%	36,914	2,634,614	7137%	-38.5	0.1837
2058	22,824	1,998,475	8756%	26,247	1,998,475	7614%	-39.5	0.1758
Past	748,512,115	424,296,846	57%	748,512,115	424,296,846	57%		
Future	395,447,105	2,295,215,631	580%	448,836,235	2,295,215,631	511%		
Lifetime	1,143,959,220	2,719,512,476	238%	1,197,348,350	2,719,512,476	227%		
Interest	4.50%							
Past w/ int	1,128,310,741	545,556,588	48%	1,128,310,741	545,556,588	48%		
Future w/ int	294,635,205	1,338,291,157	454%	333,031,591	1,338,291,157	402%		
Lifetime w/ int	1,422,945,947	1,883,847,746	132%	1,461,342,332	1,883,847,746	129%		

* Proposed rate increase of 15% will be implemented in 2020.

**Projection is for lifetime-pay policies only.

Lincoln Benefit Life Company
Policy Form: LB-6301-P-MD, LB-6302-P-MD, LB-6303-P-MD
All Issue Years

Exhibit F2: Maryland Experience Projection**

Calendar Year	Before Proposed Increase			After Proposed Increase*			At Year End 2018	4.50% Factor 1.0450
	Earned Premium	Incurred Claims	Loss Ratio	Earned Premium	Incurred Claims	Loss Ratio		
1998	0	0	0%	0	0	0%	20.5	2.4654
1999	31,861	0	0%	31,861	0	0%	19.5	2.3592
2000	162,198	0	0%	162,198	0	0%	18.5	2.2576
2001	282,650	0	0%	282,650	0	0%	17.5	2.1604
2002	441,654	0	0%	441,654	0	0%	16.5	2.0674
2003	703,780	0	0%	703,780	0	0%	15.5	1.9783
2004	913,013	0	0%	913,013	0	0%	14.5	1.8932
2005	863,985	9,970	1%	863,985	9,970	1%	13.5	1.8116
2006	825,078	1,170,923	142%	825,078	1,170,923	142%	12.5	1.7336
2007	852,043	835,222	98%	852,043	835,222	98%	11.5	1.6590
2008	883,290	0	0%	883,290	0	0%	10.5	1.5875
2009	889,555	58,548	7%	889,555	58,548	7%	9.5	1.5192
2010	903,155	0	0%	903,155	0	0%	8.5	1.4537
2011	942,241	71,697	8%	942,241	71,697	8%	7.5	1.3911
2012	916,394	43,948	5%	916,394	43,948	5%	6.5	1.3312
2013	887,046	179,854	20%	887,046	179,854	20%	5.5	1.2739
2014	871,236	855,664	98%	871,236	855,664	98%	4.5	1.2191
2015	852,450	750,934	88%	852,450	750,934	88%	3.5	1.1666
2016	875,367	475,499	54%	875,367	475,499	54%	2.5	1.1163
2017	916,352	518,609	57%	916,352	518,609	57%	1.5	1.0683
2018	928,545	1,831,189	197%	928,545	1,831,189	197%	0.5	1.0223
2019	882,263	1,146,915	130%	882,263	1,146,915	130%	-0.5	0.9782
2020	837,531	1,306,933	156%	963,161	1,306,933	136%	-1.5	0.9361
2021	791,315	1,472,162	186%	910,012	1,472,162	162%	-2.5	0.8958
2022	744,052	1,642,741	221%	855,659	1,642,741	192%	-3.5	0.8572
2023	695,799	1,821,488	262%	800,168	1,821,488	228%	-4.5	0.8203
2024	646,977	2,000,180	309%	744,023	2,000,180	269%	-5.5	0.7850
2025	598,097	2,168,367	363%	687,812	2,168,367	315%	-6.5	0.7512
2026	549,762	2,327,821	423%	632,226	2,327,821	368%	-7.5	0.7188
2027	502,360	2,475,799	493%	577,714	2,475,799	429%	-8.5	0.6879
2028	456,381	2,605,703	571%	524,838	2,605,703	496%	-9.5	0.6583
2029	412,245	2,700,924	655%	474,082	2,700,924	570%	-10.5	0.6299
2030	370,248	2,757,725	745%	425,785	2,757,725	648%	-11.5	0.6028
2031	330,586	2,777,538	840%	380,174	2,777,538	731%	-12.5	0.5768
2032	293,393	2,752,508	938%	337,402	2,752,508	816%	-13.5	0.5520
2033	258,756	2,697,577	1043%	297,570	2,697,577	907%	-14.5	0.5282
2034	226,706	2,619,504	1155%	260,711	2,619,504	1005%	-15.5	0.5055
2035	197,277	2,511,949	1273%	226,868	2,511,949	1107%	-16.5	0.4837
2036	170,490	2,387,295	1400%	196,063	2,387,295	1218%	-17.5	0.4629
2037	146,319	2,251,213	1539%	168,267	2,251,213	1338%	-18.5	0.4429
2038	124,710	2,093,611	1679%	143,417	2,093,611	1460%	-19.5	0.4239
2039	105,579	1,931,373	1829%	121,416	1,931,373	1591%	-20.5	0.4056
2040	88,780	1,775,197	2000%	102,096	1,775,197	1739%	-21.5	0.3882
2041	74,142	1,624,990	2192%	85,263	1,624,990	1906%	-22.5	0.3714
2042	61,488	1,486,252	2417%	70,711	1,486,252	2102%	-23.5	0.3554
2043	50,642	1,355,082	2676%	58,238	1,355,082	2327%	-24.5	0.3401
2044	41,418	1,231,504	2973%	47,631	1,231,504	2586%	-25.5	0.3255
2045	33,637	1,108,532	3296%	38,683	1,108,532	2866%	-26.5	0.3115
2046	27,119	989,916	3650%	31,187	989,916	3174%	-27.5	0.2981
2047	21,690	869,478	4009%	24,944	869,478	3486%	-28.5	0.2852
2048	17,206	750,669	4363%	19,787	750,669	3794%	-29.5	0.2729
2049	13,526	638,322	4719%	15,555	638,322	4104%	-30.5	0.2612
2050	10,526	535,719	5089%	12,105	535,719	4426%	-31.5	0.2499
2051	8,100	443,122	5471%	9,314	443,122	4757%	-32.5	0.2392
2052	6,155	362,448	5889%	7,078	362,448	5121%	-33.5	0.2289
2053	4,614	293,031	6351%	5,306	293,031	5523%	-34.5	0.2190
2054	3,408	234,266	6875%	3,919	234,266	5978%	-35.5	0.2096
2055	2,476	185,322	7485%	2,847	185,322	6508%	-36.5	0.2006
2056	1,767	144,518	8178%	2,032	144,518	7112%	-37.5	0.1919
2057	1,237	110,735	8951%	1,423	110,735	7784%	-38.5	0.1837
2058	848	83,391	9831%	976	83,391	8549%	-39.5	0.1758
Past	14,941,894	6,802,058	46%	14,941,894	6,802,058	46%		
Future	9,809,623	60,671,820	618%	11,148,727	60,671,820	544%		
Lifetime	24,751,518	67,473,878	273%	26,090,622	67,473,878	259%		
Interest	4.50%							
Past w/ int	22,184,104	8,785,775	40%	22,184,104	8,785,775	40%		
Future w/ int	7,140,887	33,557,848	470%	8,082,562	33,557,848	415%		
Lifetime w/ int	29,324,992	42,343,623	144%	30,266,666	42,343,623	140%		

* Proposed rate increase of 15% will be implemented in 2020.

**Projection is for lifetime-pay policies only.

Lincoln Benefit Life Company
Policy Form: LB-6301, LB-6302, LB-6303

Exhibit G1: Nationwide Policy and Premium Distribution

	Policies	Premium	% of Policies	% of Premium
Base				
Comprehensive	11,923	37,931,089	86%	91%
Nursing Home Only	821	2,164,868	6%	5%
Home Health Only Only	1,043	1,807,452	8%	4%
Total	13,787	41,903,409	100%	100%
COLA Options				
No COLA	2,366	4,804,212	17%	11%
Simple COLA	1,092	3,185,141	8%	8%
Compound COLA	10,329	33,914,056	75%	81%
Total	13,787	41,903,409	100%	100%
Nonforfeiture Options				
None	13,518	40,828,377	98%	97%
SBP	77	222,412	1%	1%
Full ROP & SBP	16	54,708	0%	0%
Limited ROP	65	202,953	0%	0%
Full ROP	111	594,959	1%	1%
Total	13,787	41,903,409	100%	100%
Joint/Single Life				
Joint	5,961	22,367,461	43%	53%
Single	7,826	19,535,947	57%	47%
Total	13,787	41,903,409	100%	100%
Billing Mode				
Annual	4,778	15,967,529	35%	38%
Semi-Annual	596	1,848,639	4%	4%
Quarterly	1,353	4,150,679	10%	10%
Monthly	7,060	19,936,562	51%	48%
Total	13,787	41,903,409	100%	100%
Elimination Period				
0 Day	1,644	4,234,305	12%	10%
30 Days	3,613	11,499,292	26%	27%
60 Days	486	1,259,960	4%	3%
90 Days	8,044	24,909,851	58%	59%
Total	13,787	41,903,409	100%	100%
Benefit Period (NH/HH)				
3 Year / 3 Year	1,865	4,563,691	14%	11%
5 Year / 3 Year	156	464,875	1%	1%
5 Year / 5 Year	1,233	3,618,315	9%	9%
Lifetime / 3 Year	753	2,449,385	5%	6%
Lifetime / 5 Year	266	903,309	2%	2%
Lifetime / Lifetime	9,514	29,903,834	69%	71%
Total	13,787	41,903,409	100%	100%
Issue Age Cohort				
20-29	1	1,561	0%	0%
30-39	38	57,445	0%	0%
40-49	914	1,794,394	7%	4%
50-59	5,620	14,759,497	41%	35%
60-69	6,260	21,264,242	45%	51%
70-79	940	3,937,399	7%	9%
80-89	14	88,870	0%	0%
Total	13,787	41,903,409	100%	100%
Daily Benefit Cohort				
\$1-\$50	341	541,091	2%	1%
\$51-\$100	6,571	17,807,632	48%	42%
\$101-\$150	5,584	18,209,766	41%	43%
\$151-\$200	1,059	4,338,075	8%	10%
\$201-\$250	224	973,801	2%	2%
\$251-\$300	8	33,043	0%	0%
Total	13,787	41,903,409	100%	100%
Attained Age Cohort				
30-39	0	0	0%	0%
40-49	5	3,432	0%	0%
50-59	240	437,059	2%	1%
60-69	2,099	4,722,699	15%	11%
70-79	7,170	21,102,589	52%	50%
80-89	3,845	13,858,224	28%	33%
90-99	428	1,779,407	3%	4%
Total	13,787	41,903,409	100%	100%

Lincoln Benefit Life Company
Policy Form: LB-6301-P-MD, LB-6302-P-MD, LB-6303-P-MD

Exhibit G2: Maryland Policy and Premium Distribution

	Policies	Premium	% of Policies	% of Premium
Base				
Comprehensive	265	871,761	92%	96%
Nursing Home Only	5	8,474	2%	1%
Home Health Only Only	17	31,664	6%	3%
Total	287	911,899	100%	100%
COLA Options				
No COLA	31	76,416	11%	8%
Simple COLA	17	46,025	6%	5%
Compound COLA	239	789,458	83%	87%
Total	287	911,899	100%	100%
Nonforfeiture Options				
None	287	911,899	100%	100%
SBP	0	0	0%	0%
Full ROP & SBP	0	0	0%	0%
Limited ROP	0	0	0%	0%
Full ROP	0	0	0%	0%
Total	287	911,899	100%	100%
Joint/Single Life				
Joint	122	494,486	43%	54%
Single	165	417,413	57%	46%
Total	287	911,899	100%	100%
Billing Mode				
Annual	114	368,620	40%	40%
Semi-Annual	10	39,028	3%	4%
Quarterly	38	111,852	13%	12%
Monthly	125	392,399	44%	43%
Total	287	911,899	100%	100%
Elimination Period				
0 Day	23	78,253	8%	9%
30 Days	73	215,551	25%	24%
60 Days	0	0	0%	0%
90 Days	191	618,095	67%	68%
Total	287	911,899	100%	100%
Benefit Period (NH/HH)				
3 Year / 3 Year	44	107,373	15%	12%
5 Year / 3 Year	6	18,786	2%	2%
5 Year / 5 Year	24	72,485	8%	8%
Lifetime / 3 Year	15	63,575	5%	7%
Lifetime / 5 Year	7	19,278	2%	2%
Lifetime / Lifetime	191	630,402	67%	69%
Total	287	911,899	100%	100%
Issue Age Cohort				
20-29	0	0	0%	0%
30-39	1	2,480	0%	0%
40-49	31	85,309	11%	9%
50-59	132	350,014	46%	38%
60-69	116	446,137	40%	49%
70-79	7	27,959	2%	3%
80-89	0	0	0%	0%
Total	287	911,899	100%	100%
Daily Benefit Cohort				
\$1-\$50	3	2,765	1%	0%
\$51-\$100	76	178,931	26%	20%
\$101-\$150	160	542,937	56%	60%
\$151-\$200	42	162,464	15%	18%
\$201-\$250	6	24,801	2%	3%
\$251-\$300	0	0	0%	0%
Total	287	911,899	100%	100%
Attained Age Cohort				
30-39	0	0	0%	0%
40-49	0	0	0%	0%
50-59	8	16,253	3%	2%
60-69	60	165,819	21%	18%
70-79	160	504,399	56%	55%
80-89	56	214,076	20%	23%
90-99	3	11,352	1%	1%
Total	287	911,899	100%	100%