<b>Product Name</b>	Form Number	<b>Issue Date Range</b>
Advantage Gold Select	LTC-96 MD 9/96	Jan 1997 - Feb 2003
Advantage Gold Select	LTC-96 MD 3/97	Jan 1997 - Feb 2003
Advantage Classic	LTC-96CL MD 9/96	Feb 1997 - Mar 1998
Advantage Classic	LTC-96CL MD 3/97	Feb 1997 - Mar 1998
Advantage Classic	NH-99 MD 4/99	Nov 1999 - Dec 2001
Fidelity Advantage Gold Select	LTC2000 MD 4/00	Sep 2001 - Apr 2003

## 1. Scope & Purpose

This memorandum consists of materials which support the development of new premium rates for the above captioned policy series forms. The purpose of this memorandum is to demonstrate that the requirements of this State in regards to an in force rate increase request have been met. This rate filing is not intended to be used for any other purpose.

### 2. Requested Rate Increase

The Company is requesting a flat rate increase of 108.1%.

These rate increases were determined as the amounts needed to meet the target loss ratio (restated for removal of waived premiums) from our prior filing, based on nationwide experience through yearend 2021, and then projected future experience.

In accordance with COMAR 31.14.01.04(A)(5), we are willing to phase-in the requested rate increase on an equivalent basis such that the maximum annual rate increase does not exceed 15%.

The rate stability rule is demonstrated at the bottom of **Exhibit 1**.

In the rate schedules by policy form, **Appendix B1** contains the new proposed rate tables for all policy forms included with this filing for those policyholders that *never* elected an inflation reduction or shared cost option as part of the 2013 or 2016 rate increase filings.

In the rate schedules by policy form, **Appendices B2 forward** contain the new proposed rate tables for all policy forms included with this filing for those policyholders that *did* elect an inflation reduction or shared cost option as part of the 2013 and/or 2016 rate increase filings.

Please note that the actual rates implemented may vary slightly from those in Appendices B1 forward due to implementation rounding algorithms.

**Exhibit 1** contains nationwide past premium and claims experience as well as future premium and claim projections. Waived premiums are not included. It illustrates that the anticipated lifetime loss ratio with the requested rate increase is 95.2%, well in excess of the minimum loss ratio of 60% as well as greater than the original pricing loss ratio of 69.4%. Please note that the original pricing loss ratio was not restated for the removal of waived premiums due to immateriality. The lifetime loss ratio as of 12/31/2021 is calculated as the sum of accumulated past and discounted future claims divided by the sum of accumulated past and discounted

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future earned premium where accumulation and discounting occur at the maximum statutory valuation discount rate. The maximum statutory valuation discount rate is 4.5%.

**Exhibit 1** also contains the original expected loss ratio projections, adjusted for the actual mix of business issued, with the lifetime loss ratio also calculated as stated above.

Furthermore, **Exhibit 1** demonstrates that the calculated loss ratio respects the applicable pre and post stability requirements:

#### Post-stability form requirements:

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 the greater of the original assumed lifetime loss ratio and 58%,
- 2. Accumulated value of prior premium rate schedule increases times the greater of the original assumed lifetime loss ratio and 85%,
- 3. Present value of future projected initial earned premium times the greater of the original assumed lifetime loss ratio and 58%, and
- 4. Present value of future projected premium in excess of the projected initial earned premium times the greater of the original assumed lifetime loss ratio and 85%.

### Pre-stability form requirements:

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 the greater of the original assumed lifetime loss ratio and 60%,
- 2. Accumulated value of prior premium rate schedule increases times the greater of the original assumed lifetime loss ratio and 80%,
- 3. Present value of future projected initial earned premium times the greater of the original assumed lifetime loss ratio and 60%, and
- 4. Present value of future projected premium in excess of the projected initial earned premium times the greater of the original assumed lifetime loss ratio and 80%.

Detail on assumptions and recent analysis is provided in **Addendum #1 - Assumptions and Analysis Performed**.

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# 3. Nationwide Loss Ratio Exhibit (Exhibit 1)

	1	Original Assumptions Historical Before Proposed Increase			torical & Pr	& Projected Experience With Proposed Rate Increase				
	Calendar Year	Incurred Claims	Earned Premium	Incurred Loss Ratio	Incurred Claims	Earned Premium	Incurred Loss Ratio	Incurred Claims	Earned Premium	Incurred Loss Ratio
	1988 1989	-	-	0%	-	43,668	0%	-	43,668	0%
	1989	-	-	0% 0%	-	106,191 167,104	0%	-	106,191 167,104	0% 0%
	1991 1992		-	0% 0%	- :	336,359 2,211,732	0% 0%	-	336,359 2,211,732	0% 0%
	1993	-	-	0%	1	3,785,171	0%	-	3,785,171	0%
	1994 1995	-	-	0%	6,681	5,630,242 8,694,017	0%	6,681	5,630,242 8,694,017	0%
	1996	46,523	507,740	9%		16,349,303	0%		16,349,303	0%
	1997 1998	1,883,605 6,842,508	20,957,444 65,556,158	9% 10%	66,073 6,890,701	50,007,581 99,104,320	0% 7%	66,073 6,890,701	50,007,581 99,104,320	0% 7%
	1999	14,704,687	114,182,665	13%	18,146,750	158,682,308	11%	18,146,750	158,682,308	11%
	2000 2001	25,918,419 37,631,987	171,360,973 219,645,420	15% 17%	28,145,692 50,265,730	225,380,179 284,789,735	12% 18%	28,145,692 50,265,730	225,380,179 284,789,735	12% 18%
	2002	49,898,653	259,751,045	19%	73,629,788	326,979,309	23%	73,629,788	326,979,309	23%
	2003 2004	59,562,641 67,298,459	253,233,083 229,753,188	24% 29%	87,755,646 102,846,295	322,678,195 312,153,578	27% 33%	87,755,646 102,846,295	322,678,195 312,153,578	27% 33%
	2005	72,669,704	209,369,594	35%	128,040,713	301,812,735	42%	128,040,713	301,812,735	42%
Historical Experience	2006 2007	77,353,484 82,554,406	191,816,110 176,590,927	40% 47%	166,616,627 208,802,025	291,565,220 281,253,737	57% 74%	166,616,627 208,802,025	291,565,220 281,253,737	57% 74%
	2008	87,826,370 92,407,052	163,258,059	54%	219,057,577 247,180,479	269,464,758	81% 88%	219,057,577	269,464,758 280,864,555	81% 88%
	2009 2010	97,026,650	151,400,475 140,646,773	61% 69%	254,364,959	280,864,555 273,789,831	93%	247,180,479 254,364,959	273,789,831	93%
	2011 2012	101,964,803 107,106,387	130,677,044 121,236,700	78% 88%	278,583,092 305,341,335	258,680,406 227,791,756	108% 134%	278,583,092 305,341,335	258,680,406 227,791,756	108% 134%
	2013	112,188,316	112,151,971	100%	314,613,935	225,671,762	134%	314,613,935	225,671,762	139%
	2014 2015	117,118,930 121,754,306	103,386,735 94,957,671	113% 128%	351,774,792 374,973,919	232,484,870 231,641,365	151% 162%	351,774,792 374,973,919	232,484,870 231,641,365	151% 162%
	2016	125,970,599	86,883,188	145%	403,782,143	237,213,646	170%	403,782,143	237,213,646	170%
	2017 2018	129,700,208 132,793,992	79,180,098 71.864.025	164% 185%	388,786,817 410,919,448	227,222,766 224,897,483	171% 183%	388,786,817 410,919,448	227,222,766 224,897,483	171% 183%
	2019	135,179,074	64,948,256	208%	399,842,540	226,856,121	176%	399,842,540	226,856,121	176%
	2020 2021	136,799,154 137,634,476	58,442,882 52,355,371	234% 263%	387,520,595 490,428,360	225,857,828 208,882,532	172% 235%	387,520,595 490,428,360	225,857,828 208,882,532	172% 235%
	2022	137,663,110	46,689,178	295%	449,614,114	214,381,011	210%	449,614,114	214,381,011	210%
	2023 2024	136,741,174 134,827,001	41,443,414 36.613.017	330% 368%	446,372,214 436,981,659	215,917,209 213,371,713	207% 205%	446,372,214 436,981,659	215,917,209 213,371,713	207% 205%
	2025	131,952,950	32,190,787	410%	426,258,228	192,750,929	221%	426,258,228	192,750,929	221%
	2026 2027	128,201,061 123,640,882	28,167,347 24,530,268	455% 504%	408,507,853 388,840,161	171,134,892 151,121,990	239% 257%	401,273,860 369,284,741	287,812,409 297,806,526	139% 124%
	2028	118,227,080	21,262,729	556%	372,351,551	132,702,797	281%	353,361,622	262,017,458	135%
	2029 2030	112,127,070 105,484,771	18,345,977 15,759,958	611% 669%	353,429,069 332,546,235	115,828,339 100,504,629	305% 331%	335,404,186 315,586,377	228,699,375 198,443,198	147% 159%
	2031	98,452,945	13,483,372	730%	310,214,085	86,716,607	358%	294,393,166	171,219,185	172%
Projected Future	2032 2033	91,129,382 83,606,979	11,493,607 9,765,314	793% 856%	286,958,210 263,298,943	74,424,944 63,561,630	386% 414%	272,323,342 249,870,697	146,949,688 125,500,420	185% 199%
Experience	2034	76,251,757	8,273,656	922%	239,620,219	54,018,638	444%	227,399,588	106,658,084	213%
	2035 2036	69,286,921 62,786,582	6,994,979 5,906,275	991% 1063%	216,305,109 193,601,927	45,672,301 38,408,987	474% 504%	205,273,548 183,728,229	90,178,508 75,837,325	228% 242%
	2037 2038	56,755,532	4,985,188	1138%	171,758,053	32,124,533	535%	162,998,392	63,428,870	257%
	2038	51,265,630 46,532,613	4,209,003 3,557,502	1218% 1308%	151,007,467 131,599,837	26,719,206 22,099,774	565% 595%	143,306,086 124,888,245	52,756,224 43,635,302	272% 286%
	2040	42,677,885	3,012,653	1417% 1553%	113,655,694	18,178,915	625% 655%	107,859,253	35,893,690	300%
	2041 2042	39,711,627 37,512,219	2,557,908 2,178,094	1722%	97,364,327 82,758,211	14,873,730 12,105,348	684%	92,398,746 78,537,542	29,367,707 23,901,625	315% 329%
	2043 2044	35,917,156	1,859,054	1932%	69,854,211	9,800,724	713%	66,291,646	19,351,217	343% 356%
	2045	34,689,362 33,617,863	1,589,641 1,360,808	2182% 2470%	58,520,502 48,640,289	7,893,289 6,324,269	741% 769%	55,535,956 46,159,634	15,585,048 12,487,069	370%
	2046 2047	32,569,108 31,414,634	1,164,837 995,163	2796% 3157%	40,167,039 32,971,422	5,042,233 4,001,014	797% 824%	38,118,520 31,289,880	9,955,728 7,899,876	383% 396%
	2048	30,088,815	846,320	3555%	26,927,649	3,159,474	852%	25,554,339	6,238,280	410%
	2049 2050	28,478,973 26,504,643	714,779 598,369	3984% 4429%	21,842,111 17,608,903	2,482,243 1,940,289	880% 908%	20,728,164 16,710,849	4,901,110 3,831,038	423% 436%
	2051	24,134,078	495,634	4869%	14,096,514	1,509,221	934%	13,377,592	2,979,909	449%
	2052 2053	21,428,812 18,453,482	405,551 327,316	5284% 5638%	11,220,240 8,884,706	1,168,457 900,546	960% 987%	10,648,008 8,431,586	2,307,082 1,778,099	462% 474%
	2054	15,495,366	260,178	5956%	6,978,049	691,031	1010%	6,622,168	1,364,419	485%
	2055 2056	12,741,668 10,288,914	203,368 156,112	6265% 6591%	5,441,205 4,225,621	528,193 402,358	1030% 1050%	5,163,703 4,010,114	1,042,900 794,444	495% 505%
	2057	8,148,029	117,597	6929%	3,274,822	305,490	1072%	3,107,806	603,181	515%
	2058 2059	6,333,994 4,805,140	86,891 62,955	7290% 7633%	2,536,066 1,950,287	231,042 173,898	1098% 1122%	2,406,726 1,850,822	456,186 343,356	528% 539%
	2060	3,544,362	44,737	7923%	1,482,438	130,172	1139%	1,406,834	257,021	547%
	2061 2062	2,538,940 1,768,226	31,221 21,398	8132% 8264%	1,122,112 843,151	96,883 71,658	1158% 1177%	1,064,884 800,151	191,293 141,486	557% 566%
	2063 2064	1,202,060 801,372	14,301 9,273	8405% 8642%	630,062 473,624	52,645 38,430	1197% 1232%	597,929 449,469	103,945 75,879	575% 592%
	2065	520,997	5,822	8949%	348,955	27,836	1254%	331,158	54,962	603%
	2066 2067	328,310 199,369	3,533 2,068	9293% 9642%	257,872 186,151	19,996 14,248	1290% 1307%	244,721 176,657	39,482 28,131	620% 628%
	2068	115,643	1,161	9960%	132,466	10,095	1312%	125,711	19,932	631%
	2069 2070	62,821 30,572	621 308	10111% 9920%	93,384 65,173	7,125 5,011	1311% 1301%	88,621 61,850	14,068 9,894	630% 625%
	2071	11,786	133	8894%	48,316	3,505	1378%	45,852	6,921	662%
	2072 2073	3,273 495	39 4	8306% 11538%	35,548 25,463	2,412 1,618	1474% 1573%	33,735 24,165	4,762 3,195	708% 756%
	2074	12	0	14709%	16,693	1,052	1587%	15,842	2,077	763%
	2075 2076	-	-	0% 0%	10,552 6,393	660 399	1598% 1603%	10,014 6,067	1,304 787	768% 771%
	2077	-		0%	3,692	230	1604%	3,504	454	771%
	2078 2079	-	-	0% 0%	2,023 1,038	125 62	1613% 1673%	1,920 985	248 122	775% 804%
	2080	-		0%	502	28	1783%	476	56	857%
	2081 2082	-	-	0% 0%	198 62	10 1	1978% 9841%	188 58	20 1	951% 4730%
Note: Please refer to the		m, section "Ensuring No Cros			stments made to experience	exhibits				
Values as of 12/31	1/2021 (discounte Past :	ed at maximum statut 3 213 892 852	ory valuation rate: 6 433 359 102	s) 50.0%	8.277.295.384	10.859.792.033	76.2%	8.277.295.384	10 859 792 033	76.2%
	Future :	1,439,656,551	272,995,682	527.4%	4,392,691,661	1,572,707,935	279.3%	4,262,377,389	2,315,129,545	184.1%
	Lifetime :	4,653,549,403	6,706,354,784	69.4%	12,669,987,045	12,432,499,967	101.9%	12,539,672,774	13,174,921,577	95.2%
Total Incurred Cla	ims exceed Tota	I Initial Premiums x n	nax(58%, Original	Pricing Loss	Ratio) + Increased P	remiums x max(85	%, Origina	l Pricing Loss Ratio)		
Minimum (Acoust V	alue of Doot In	red Claims			Accum Value of Past			6,642,113,666		
Minimum (Accum V Accum Value of Ac	djusted Expected I	incurred Claims) =	7,234,198,667		Present Value of Fut Accum Value of Prior	Increases x 85.0%	=	285,725,484 1,094,514,388		
Present Value of Fu Total =	uture Incurred Cla	ims =	4,262,377,389 11,496,576,057	- >=	Present Value of Fut	ure Increases x 85.0	)% =	1,617,858,457 9,640,211,995		
	ime aveced T-1-	I Initial Premiums		Pricina I a		romiume v mov/00	% Origin-			
rotal incurred Cla	uus exceed 10ta	I Initial Premiums x n	ma(00%, Urigiñal	r rung Loss						
Minimum (Accum V					Accum Value of Past Present Value of Fut	ure Initial Prm x 69.4	1% =	6,642,113,666 285,725,484		
Accum Value of Ac Present Value of Fu	djusted Expected I	ncurred Claims) =	7,234,198,667 4,262,377,389		Accum Value of Prior Present Value of Fut			1,030,131,189 1,522,690,312		
Total =			11,496,576,057	>=	Total =	22000 A 00.0	-	9,480,660,651		

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#### 4. Proposed Effective Date

New rates will not be effective until after the completion of prior rate increases for all policyholders with product forms listed in this memo. These rates will be effective on the next policy anniversary date after completion, following at least a 90 day policyholder notification period. The assumed effective date used to calculate the rate increase is 03/01/2026.

### 5. History of Previous Rate Revisions

An average rate increase of 13.0% on these policy forms was accepted by your state on September 10, 2008.

An average rate increase of 14.9% on these policy forms was accepted by your state on September 13, 2012.

An average rate increase of 13.9% on these policy forms was accepted by your state on September 11, 2013.

An average rate increase of 15.0% on these policy forms was accepted by your state on September 29, 2014.

An average rate increase of 14.9% on these policy forms was accepted by your state on October 23, 2015.

An average rate increase of 40.5% on these policy forms was accepted by your state on August 01, 2017 which was phased-in over 3 years with a 12% annual maximum.

An average rate increase of 39.7% on these policy forms was accepted by your state on April 01, 2020 which was phased-in over 3 years with a 15% annual maximum for inflation policies and 2 years with a 7.5% annual maximum for non-inflation policies.

### 6. Reduced Benefit Options (RBOs)

If the full or substantial portion of the rate increase request is approved and per the state's agreement, we will file the following additional options which provide policyholders alternatives to the rate increase:

### • Inflation Landing Spots

Future inflation options (also referred to as "landing spots") allow policyholders that have Compound or Simple inflation coverage the option to offset the rate increase. Under these options, the policyholders get to keep their current accumulated Daily benefit and their current remaining Lifetime Maximum Benefit, but the future indexation rate will be reduced to a level which is actuarially equivalent to the requested rate increase in aggregate. These options are not available to limited pay policies or policyholders who have elected three prior inflation reductions.

#### • Shared Cost Option

Shared Cost option is an actuarially equivalent option that allows policyholders the option to offset the rate increase. The Shared Cost option would:

- Reduce the policyholder's current policy benefit amounts by their Shared Cost percentage. The daily/monthly benefit and the policy limit will be reduced by the Shared Cost percentage
- Apply a percentage factor to any future claim payments equal to the Shared Cost percentage.

  John Hancock will pay our portion (1 minus the Shared Cost percent) of any covered services,

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but will not pay more than the new reduced daily/monthly benefit amount and the policyholder will be responsible for the remainder.

Shared Cost Percentages are calculated using seriatim, nationwide data for each benefit period, inflation type and issue age band combination. All Shared Cost percentages are determined to be actuarially equivalent to the requested rate increases by combination of 5-year issue age band, benefit period and inflation type. The Shared Cost option is not available to limited pay policies or policyholders who have elected two prior Shared Cost options. This option is also not available to Advantage Classic policyholders because that plan already has a coinsurance provision for care received in a community setting or in an assisted living facility.

### • Voluntary Enhanced Paid-Up Policy Option

For those who choose to stop paying premiums, this option will be a paid-up policy with a policy limit equal to the lesser of the current policy limit and 150% of premiums paid less any benefits received.

The premium rate tables reflecting these options will be filed upon request following a full or substantial approval.

### 7. State Policyholder Counts & Average Annual Premium

The table below summarizes the number of policies inforce that could be affected by the rate increase in your state and their annualized premiums, as well as the average annual premium per policy before and after the requested increase.

Counts and premiums are based on policies inforce as of 12/31/2021. Premium-paying policies as well as policies on claim are included, since although the premium for policies on claim is currently waived, they could be subject to the rate increase upon recovery. Paid-up policies and policies which have exercised the nonforfeiture benefit option are excluded.

Form	Number of Policies	2021 Annualized Premium*	2021 Average Annual Premium Before the rate increase*	2021 Average Annual Premium After the rate increase
LTC-96 MD 9/96	3,653	17,272,253	4,728	9,837
LTC-96 MD 3/97	(incl. above)	(incl. above)	(incl. above)	(incl. above)
LTC-96CL MD 9/96	2	9,140	4,570	9,508
LTC-96CL MD 3/97	(incl. above)	(incl. above)	(incl. above)	(incl. above)
NH-99 MD 4/99	(incl. above)	(incl. above)	(incl. above)	(incl. above)
LTC2000 MD 4/00	19	110,583	5,820	12,109

<sup>\*</sup>Premiums reflect the rate increases approved in prior filing(s), including approvals where implementation is not yet complete

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### 8. State and Nationwide Distribution of Business as of December 31, 2021

The state-specific and nationwide distribution of business for policyholders impacted by the rate increase is shown below by inflation type, benefit period, and issue age. The breakdown of business by Premium Payment Option is also included to show the number of policyholders no longer paying premiums due to nonforfeiture election or paid-up status.

**Inflation Type** 

State	GPO	Simple	Compound	Total
NW	26%	30%	44%	100%
MD	12%	34%	54%	100%
NW	18,205	21,139	31,062	70,406
MD	449	1,232	1,993	3,674

#### **Benefit Period**

State	1 yr	2 yr	3 yr	4 yr	5 yr	6 yr	10 yr	Lifetime	Total
NW	0%	7%	17%	27%	0%	27%	4%	19%	100%
MD	0%	11%	19%	30%	0%	25%	3%	12%	100%
NW	12	4,759	11,783	18,707	244	18,995	2,519	13,387	70,406
MD	0	419	706	1,093	0	920	100	436	3,674

**Issue Age** 

State	< 40	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+	Total
NW	0%	1%	4%	12%	25%	32%	19%	6%	1%	0%	100%
MD	0%	1%	3%	13%	26%	32%	18%	6%	1%	0%	100%
NW	160	838	2,561	8,621	17,771	22,429	13,604	3,918	486	18	70,406
MD	6	33	123	465	950	1,193	657	220	26	1	3,674

**Premium Payment Option** 

	um i aymi	one operor	-				
State	Lifetime Pay	On Claim	Limited Pay	NFO*	Limited Pay, Paid Up*	Survivorship Waiver of Premium*	Total
NW	75%	10%	0%	14%	1%	0%	100%
MD	83%	10%	0%	7%	0%	0%	100%
NW	61,754	8,645	7	11,140	563	295	82,404
MD	3,261	413	0	270	0	5	3,949

<sup>\*</sup>Policies not included in distributions by count shown above as they are not impacted by the rate increase.

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### 9. Benefit Description(s)

A brief policy description for each of the policy forms:

#### LTC-96 MD 9/96, LTC-96 MD 3/97

Individually underwritten long-term care policies that provide comprehensive long-term care coverage for care received in a nursing home or assisted care living facility or covered services received in a community setting.

Provides reimbursement of 100% of covered long-term care expenses incurred after an elected elimination period is met, up to the maximum daily amount. For care received in a community setting or in an assisted living facility, the maximum daily amount could be 50%, 80%, or 100% of the nursing home maximum daily amount, as elected at issue. The benefit eligibility is determined based on the insured's cognitive impairment or their requiring physical assistance to perform two out of six activities of daily living (ADLs) of bathing, dressing, eating, toileting, transferring and maintaining continence.

Premiums are waived after the insured has met the elimination period and is receiving benefits and will continue to be waived until the insured stops receiving such benefits.

### LTC-96CL MD 9/96, LTC-96CL MD 3/97

Individually underwritten long-term care policies that provide comprehensive long-term care coverage for care received in a nursing home or assisted care living facility or covered services received in a community setting.

For care received in a nursing home, provides reimbursement of 100% of covered long-term care expenses incurred after an elected elimination period is met, up to the maximum daily amount. For care received in a community setting or in an assisted living facility, provides reimbursement of 80% of covered long-term care expenses incurred after an elected elimination period is met, up to the maximum daily amount; this maximum daily amount could be 50%, 80%, or 100% of the nursing home maximum daily amount, and is elected at issue. The benefit eligibility is determined based on the insured's cognitive impairment or their requiring physical assistance to perform two out of six activities of daily living (ADLs) of bathing, dressing, eating, toileting, transferring and maintaining continence.

Premiums are waived after the insured has met the elimination period and is receiving nursing home benefits and will continue to be waived until the insured stops receiving such benefits.

#### LTC2000 MD 4/00

Individually underwritten long-term care policies that provide comprehensive long-term care coverage for care received in a nursing home or assisted care living facility or covered services received in a community setting.

Provides reimbursement of 100% of covered long-term care expenses incurred after an elected elimination period is met, up to the maximum daily amount. For care received in a community setting or in an assisted living facility, the maximum daily amount is 150% of the nursing home maximum daily amount. The benefit eligibility is determined based on the insured's cognitive impairment or their requiring physical assistance to perform two out of six activities of daily living (ADLs) of bathing, dressing, eating, toileting, transferring and maintaining continence.

Premiums are waived after the insured has met the elimination period and is receiving benefits and will continue to be waived until the insured stops receiving such benefits.

### NH-99 MD 4/99

Individually underwritten long-term care policies that provide comprehensive long-term care coverage for care

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received in a nursing home or assisted care living facility.

Provides reimbursement of 100% of covered long-term care expenses incurred after an elected elimination period is met, up to the maximum daily amount. The benefit eligibility is determined based on the insured's cognitive impairment or their requiring physical assistance to perform two out of six activities of daily living (ADLs) of bathing, dressing, eating, toileting, transferring and maintaining continence.

Premiums are waived after the insured has met the elimination period and is receiving benefits and will continue to be waived until the insured stops receiving such benefits.

### 10. Renewability

All policy forms are guaranteed renewable.

### 11. Applicability

This filing is applicable to in force policies only, as these policy forms are no longer being sold in the market. The premium changes will apply to the base forms as well as all applicable riders.

### 12. Trend Assumptions

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

#### 13. Marketing Method

This product was typically marketed through our traditional agency system and brokers involving a personal contact with each applicant.

#### 14. Underwriting

These policy forms were underwritten using a medical and risk questionnaire. We also utilized Attending Physician Statement and personal interviews depending on the age of the applicant and medical conditions.

#### 15. Premium Classes

The base policy premium rates vary by issue age, benefit period, inflation option, home health care maximum benefit percentage, and underwriting class, as in the initial rate filing.

All premium factors related to the insured elected benefit design options or any eligible discount remain unchanged from the initial rate filing.

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#### 16. Premium Modalization Rules

Frequency	Multiple of Annual Premium
Semiannual	.52
Quarterly	.27
Monthly	.09

#### 17. Issue Age Range

The issue age range is 18-84 for all policy forms.

#### 18. Area Factors

Area factors are not applicable to any of the policy forms or riders.

#### 19. Reserves

Active Life Reserves have not been used in this rate increase demonstration. Minimum Statutory Claim reserves as of 12/31/2021 have been discounted to the date of incurral of each respective claim and included in the historical incurred claims. Incurred But Not Reported claim reserves as of 12/31/2021 have also been allocated to the calendar year of incurral and included in historic incurred claims.

### 20. Ensuring No Cross-Subsidization Between States

We have ensured no state's rate increase approvals will subsidize other states' rate increases. Rate increases will vary by state, but only to reflect the timing and amount of prior rate increases approved by that state. This is accomplished by first backing-out all prior approved rate increases from our nationwide premium data. We then re-introduce actual prior rate increases with the amount and timing based on your state's prior approvals (as detailed in the section entitled **History of Previous Rate Revisions**). The current proposed rate increases are then determined based on the amounts needed in order to achieve our target lifetime loss ratios certified to in our prior filing.

Although some states may have capped our previous inforce rate increase filings, in each case this was done with the understanding that the full amount of the proposed rate increases were justified and that John Hancock would be refiling for the remainder at a later date. In instances where the remainder remains unapproved, it has been included in the current filings.

## 21. Past Losses Testing

Preventing companies from recouping past losses was the subject of a discussion by the NAIC in late 2013. The accepted methodology which was incorporated into the 2014 Long Term Care Model Regulation defines past losses as actual past claims less expected past claims when determining loss ratio compliance. Expected past claims are defined as the following:

"Expected claims shall be calculated based on the original filing assumptions assumed until new assumptions are filed as part of a rate increase. New assumptions shall be used for all periods beyond each requested effective date of a rate increase [regardless of whether or not the rate increase is approved]. Expected claims are calculated for each calendar year based on the in-force at the beginning

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of the calendar year. Expected claims shall include margins for moderately adverse experience; either amounts included in the claims that were used to determine the lifetime loss ratio consistent with the original filing or as modified in any rate increase filing."

We apply this methodology in demonstrating that we are not recouping past losses.

The 'Adjusted Expected Incurred Claims' are initially calculated by applying the original pricing durational loss ratio to the actual earned premium in a given calendar year. Later, in years in which and after which we filed for inforce rate increases, expected incurred claims are based on the new assumptions that were filed.

The accumulated value of the Adjusted Expected Incurred Claims is compared to the accumulated value of Actual Incurred Claims. The lesser of the Adjusted Expected Incurred Claims or Actual Incurred Claims is used for past claims when ensuring that the resulting overall increase in rates satisfies the rate stability rule ensuring a loss ratio no less than 85% (or the original pricing loss ratio if greater) on the rate increase portion, while applying 58% (or the original pricing loss ratio if greater) on the original rate schedule. This is demonstrated at the bottom of **Exhibit 1**. The derivation of Adjusted Expected Incurred Claims and comparison to Actual Incurred Claims can be seen in **Addendum #2 – Demonstration of not Recouping Past Losses**.

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#### 22. 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 rendering this opinion and am familiar with the requirements for filing long-term care insurance premiums and filing for increases in long-term care insurance premiums. This memorandum has been prepared in conformity with all applicable Actuarial Standards of Practice, including ASOP No. 8.

The preceding Actuarial Memorandum contains:

- a) the assumptions on which this certification is based;
- b) the adjustments to prior assumptions with an explanation of the reasons previous assumptions were not realized:
- a lifetime projection of the prior premium rate schedules and incurred claims plus future expected premiums and claims which demonstrates that the revised premium rate schedule meets the loss ratios standards and necessary details of this state; and
- d) disclosure of the manner, if any, in which reserves have been recognized.

If the requested premium rate schedule increase is implemented and the underlying assumptions are realized, no further premium rate schedule increases are anticipated.

I have reviewed and taken into consideration the policy design and coverage provided, and our current underwriting and claims adjudication processes.

In forming my opinion, I have used actuarial assumptions and actuarial methods and such tests of the actuarial calculations as I considered necessary. Based on these assumptions or statutory requirements where necessary, the premium rate filing is in compliance with the loss ratio standards of this state.

The basis for contract reserves has been previously filed and there is no anticipation of any changes.

Katherine A Gillis, FSA, MAAA

Katheria Silli

Actuary, Long Term Care Inforce Management

John Hancock Life Insurance Company

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### Addendum #1 - Assumptions and Analysis Performed

As part of the inforce management of the business, the Company monitored the performance of the business by completing periodic analysis for morbidity, voluntary lapse rates, and mortality. The findings from these analyses were used in projecting the inforce business to determine the effect of experience on the projected lifetime loss ratio. The most current studies show favorable trends overall for the Pre-Custom Care block of business since the study that prompted our 2019 rate increase filings.

Relative to previous expectations, the new data demonstrates lower claim incidence and higher than expected claim terminations beyond the early months on claim, partly offset by lower mortality for non-claimants and higher utilization of benefits.

[REDACTED]

### A. Current & Prior Assumptions

### Morbidity

[REDACTED]

#### Incidence

[REDACTED]

After updating assumptions to reflect the favorable experience, the overall A/E ratio is 93%.

Incidence (Count)						
Duration	A/E Before Assumption Update	A/E After Assumption Update				
10-17	92%	93%				
18-20	92%	94%				
21+	89%	93%				
Total	91%	93%				

#### Claim Terminations

[REDACTED]

After the assumption update, the A/E is 102% for the first 5 months on claim and 103% overall.

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Terminations (Count)							
	All Months		Mont	hs 1-5	Months 6+		
Benefit Period	A/E Before Assumption Update	A/E After Assumption Update	A/E Before Assumption Update	A/E After Assumption Update	A/E Before Assumption Update	A/E After Assumption Update	
<10 years	105%	103%	96%	101%	108%	103%	
10+ years	102%	104%	93%	106%	105%	103%	
Total	104%	103%	95%	102%	107%	103%	

#### Utilization

### [REDACTED]

After updating our assumption based on experience, the total A/E is 100%.

Utilization (Amount)						
Inflation Type	A/E Before Assumption Update	A/E After Assumption Update				
None/GPO	100%	101%				
Simple	102%	100%				
Compound	104%	100%				
Total	102%	100%				

### **Voluntary Lapses**

### [REDACTED]

Actual to Expected ratios by amount for this block (John Hancock individual business) summarized by inflation and duration groups before and after the assumption update are shown below.

Lapse (Amount)										
	No In	flation	With Inflation		Total					
Duration	A/E Before Assumption Update	A/E After Assumption Update	A/E Before Assumption Update	A/E After Assumption Update	A/E Before Assumption Update	A/E After Assumption Update				
1-5	120%	72%	91%	100%	91%	99%				
6-10	104%	87%	105%	107%	105%	104%				
11-15	88%	95%	96%	100%	95%	99%				
16-20	125%	93%	128%	103%	128%	101%				
21-25	126%	119%	127%	123%	127%	121%				
26+	109%	100%	88%	92%	104%	98%				
Total	107%	96%	105%	104%	105%	102%				

The changes to the expected lapse assumption improved the fit across cohorts and resulted in a total A/E of 102%.

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## **Mortality**

[REDACTED]

The below table shows the healthy life A/E ratios by amount before and after the assumption update for our Retail Individual business.

Mortality (Amount)								
Duration	A/E Before Assumption Update	A/E After Assumption Update						
1-5	100%	105%						
6-10	99%	99%						
11-15	96%	99%						
16-20	94%	102%						
21-25	97%	101%						
26+	76%	84%						
Total	95%	100%						

## **Expenses**

[REDACTED]

# **Original Pricing Assumptions**

[REDACTED]

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## Addendum #2 – Demonstration of not Recouping Past Losses Gold (LTC-96, LTC-96CL, NH-99, A-3541, A-3542, LTC2000)

		Original		Adjusted				
		Incurred	Historic Data	Expected		Historic Data		
	Calendar	Loss	Earned	Incurred		Incurred		
	Year	Ratio	Premium	Claims		Claims		
	1988	0%	42,883	-		-		
	1989	0%	104,264	-		-		
	1990	0%	163,081	-		-		
	1991	0%	319,836	-		-		
	1992	0%	2,109,048	-		-		
	1993	0%	3,716,742	-		-		
	1994	0%	5,539,733	-		6,681		
	1995	0%	8,530,610	-		-		
	1996	9%	15,887,181	1,452,984		-		
Original Prining	1997	9%	48,284,790	4,336,972		66,073		
Original Pricing	1998	10%	97,185,310	10,061,669		6,890,701		
	1999	13%	156,373,618	19,648,013		18,146,750		
	2000	15%	223,046,962	32,625,405		28,145,692		
	2001	16%	282,688,484	46,448,908		50,265,730		
	2002	18%	326,084,894	59,666,793		73,629,788		
	2003	22%	323,458,687	72,114,588		87,755,646		
	2004	28%	313,032,848	86,843,075		102,846,295		
	2005	33%	302,644,424	99,412,490		128,040,713		
	2006	38%	292,544,516	111,524,544		166,616,627		
	2007	44%	282,399,889	125,015,853		208,802,025		
2008 Assumptions	2008			138,746,213		219,057,577		
2000 Assumptions	2009			147,884,642		247,180,479		
	2010			225,477,020		254,364,959		
2010 Assumptions	2011			237,762,938		278,583,092		
	2012			248,378,870		305,341,335		
	2013			289,880,225		314,613,935		
2013 Assumptions	2014			310,010,100		351,774,792		
	2015			319,127,959		374,973,919		
	2016			380,143,190		403,782,143		
2016 Assumptions	2017			394,614,175		388,786,817		
	2018			409,643,721		410,919,448		
	2019			438,901,427		399,842,540		
2019 Assumptions	2020			445,402,184		387,520,595		
	2021			450,123,076		490,428,360		
Values as of 12/31/2021 (discounted at maximum statutory valuation rates)								
Past:				7,234,198,667	<	8,277,295,384		

Minimum (Accum Value of Past Incurred Claims,

Accum Value of Adjusted Expected Incurred Claims) = 7,234,198,667

The lesser of actual and expected past claims, \$7,234,198,667, is used in demonstrating compliance with the minimum loss ratio in Exhibit 1

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