

UFCW-Giant Variable Annuity Fund



Recap of 2022 Valuation Results & Experience Study

March 17, 2023

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- Recap of 2022 Valuation Results
- Experience Study
 - Purpose of the Study
 - Demographic Assumptions Review
 - Financial Impact

Recap of 2022 Valuation Results

Summary of Results



Presented at December 2022 meeting

Summary of Principal Results

	1/1/2021	1/1/2022	1/1/2023 (proj)
Liabilities			
Funding Target Liability (FTL)	\$ 0	\$ 11,988,869	\$ 23,600,000
Target Normal Cost (TNC)	12,114,212	12,402,790	12,450,000
Funding Shortfall	0	168,326	0
Shortfall Amortization Charge	0	15,555	0
Effective Interest Rate	5.83%	5.62%	TBD
Assets			
Market Value of Assets (MVA)	\$ 0	\$ 11,820,543 ¹	\$ 29,000,000 ²
Actuarial Value of Assets (AVA)	0	11,820,543	29,600,000
Funded Ratios			
Funded Percentage (AVA/FTL)	100.00%	98.59%	125.42%
Adjusted Funding Target Attainment Percentage	100.00%	98.59%	125.42%
Funding Target Attainment Percentage	100.00%	98.59%	125.42%
Minimum Required Contribution (MRC)	\$ 12,114,212	\$ 12,418,345	\$ 6,450,000
Bargaining Contribution Obligation ³	\$ 12,114,212	\$ 12,418,345	\$ 12,450,000
Quarterly Contribution	0	0	\$ 3,250,000

¹ Reflects contribution receivables discounted to January 1, 2022.

² Assumes a return of 0% for 2022

³ Based on our understanding that plan sponsor is to contribute the cost of benefits

2022 Plan Year Contribution

Summary of Contributions



If contribute on last possible day.....

Minimum Required Contribution (MRC) - 2022 Plan Year

	Date	Amount
Minimum Required Contribution	01/01/2022	\$ 12,418,345
Contribution During 2022 Plan Year to MRC*	08/29/2022	\$ 33,101
Remaining Contribution Due if Paid on	09/15/2023	\$ 13,596,015
Maximum Deductible Contribution		
Maximum Deductible Contribution Limit		\$ 18,672,420
Stabilization Reserve Contribution		6,000,000
Contribution Made during 2022 towards MRC		33,101
Maximum Deductible Contribution Limit Remaining		\$ 12,639,319
Amount of Remaining Contribution that is deductible for 2022		\$ 12,639,319
Amount of Remaining Contribution that should be allocated to 2023		956,696
Total Amount of Remaining Contribution		\$ 13,596,015

* Excludes \$6 million made for Stabilization Reserve

2023 Quarterly Contributions

Summary of Contributions



- Quarterly contributions are required in 2023 since Plan is less than 100% funded as of January 1, 2022. No quarterlies anticipated for 2024+.
- The schedule below outlines the IRS minimum approach which is based on the prior year results.

IRS Minimum Approach - 4 Quarterlies Plus True-up by 9/15/2024

		Contribution		Amount
	Date	Amount		Discounted to Valuation Date
Minimum Required Contribution (estimated)	01/01/2023			\$ 12,450,000
1st Quarterly Contribution	04/15/2023	3,104,586		\$ 3,058,079
2nd Quarterly Contribution	07/15/2023	3,104,586		\$ 3,017,958
3rd Quarterly Contribution	10/15/2023	3,104,586	*	\$ 2,977,930
4th Quarterly Contribution	01/15/2024	3,104,586	*	\$ 2,938,434
Remaining Amount Payable for the 2023 Plan Year after Quarterly Contributions				\$ 457,599
Remaining Contribution Due if Paid on	09/15/2024	\$ 500,901	*	\$ 457,599

* Will be adjusted based on actual 2023 MRC.

Summary of Contributions



Table V-5
Schedule of Required Contributions

Payment Due Date	Plan Year Ending		
	December 31, 2021	December 31, 2022	December 31, 2023
2/28/2022		\$ 6,000,000 ¹	
8/29/2022	\$ 13,309,217	\$ 33,101	
1/15/2023			
4/15/2023			\$ 3,104,586 ²
7/15/2023			\$ 3,104,586 ²
9/15/2023		\$ 13,596,015	
10/15/2023			\$ 3,104,586 ²
1/15/2024			\$ 3,104,586 ²
9/15/2024			TBD
Discount to BOY	\$ (1,195,005)	\$ (1,262,676)	N/A
Total	\$ 12,114,212	\$ 18,366,440	TBD

¹ Stabilization Reserve contribution; ignored for funding policy contribution determination.

² The final contribution for the 2023 plan year, due no later than September 15, 2024, has not yet been determined.

Purpose of the Experience Study



- An experience study is performed to compare actual plan experience against the assumptions used to value the plan. Such studies are generally performed every five years.
 - Last experience study performed on this population was in 2007
 - Meet requirements of Actuarial Standards of Practice No. 35 (selection of demographic assumptions)
- Actuarial assumptions are intended to be long-term in nature and should be reasonable both individually and in the aggregate.
- Frequent or significant changes in the actuarial assumptions are not normally recommended or desirable.

Data Used for the Experience Study



- Participants with Giant-only employer codes, as reported by AA, were included in the experience study from the following sources:
 - MAP (2017-2020)
 - FELRA (2021) – combined for PBGC Solvency Val
 - Giant VAP (2022)
- Members with both Giant and Safeway codes during the experience period were allocated to one or the other by most recent plan allocation
 - Avoids overstating termination experience
- Payment form assumptions determined by reviewing new retirees during each one-year experience period
 - Saw similar patterns when reviewing full retiree population



Demographic Assumptions

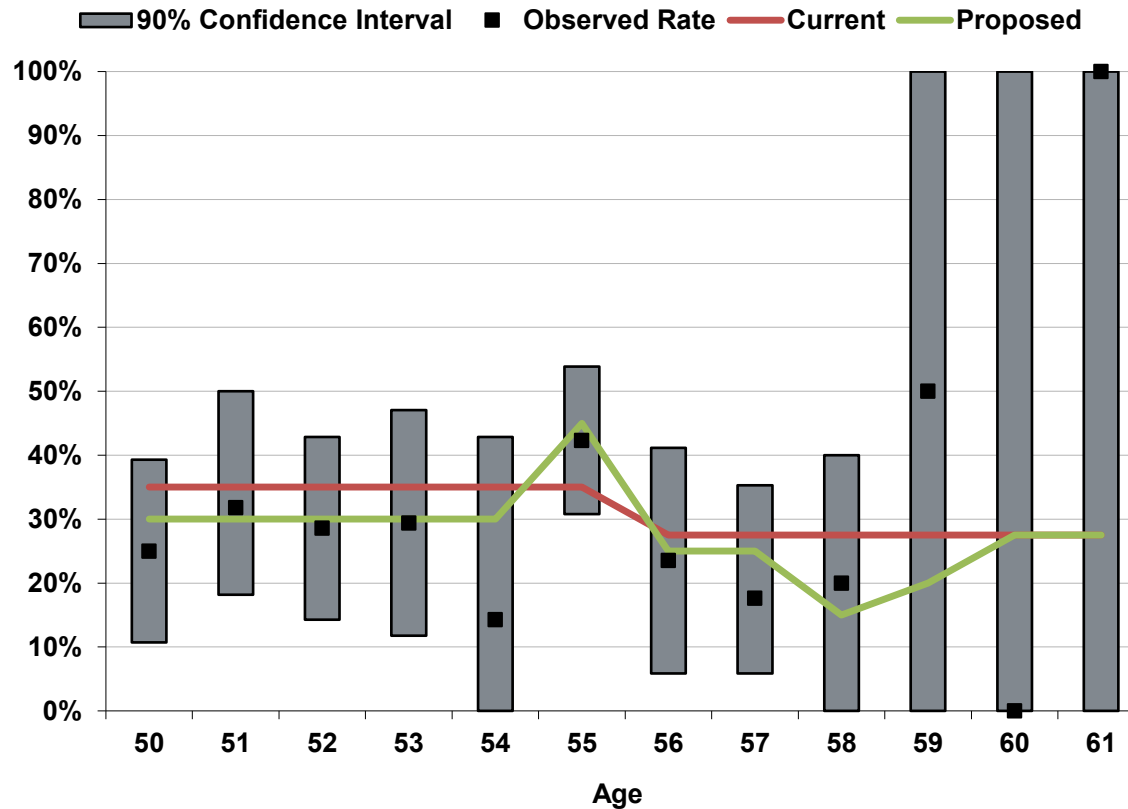
Retirement Rates
Termination Rates
Disability Rates
Marital Status
Payment Form Election

Demographic Assumptions



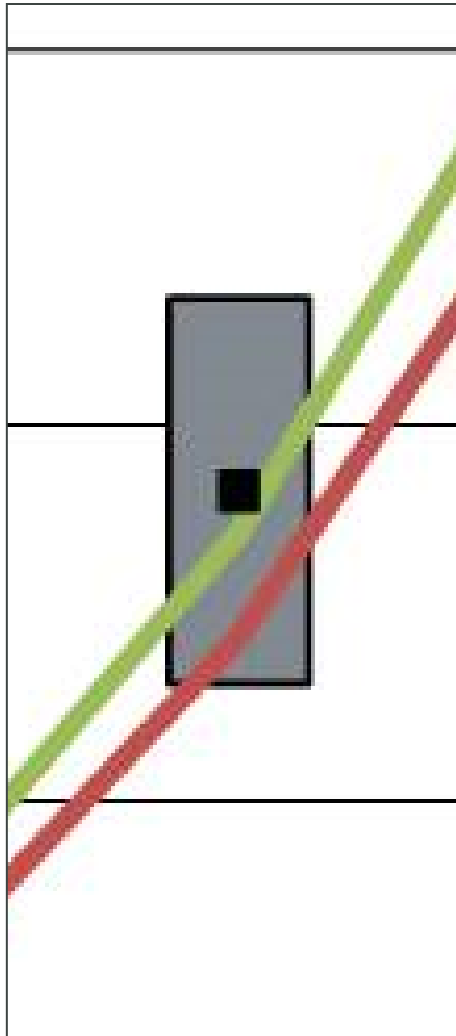
- Compare actual occurrences of each decrement (i.e., retirement, termination, disability) to what the assumption predicted would happen
- Examine any external influences on each assumption (pandemic, short or long-term impact)
- Consider potential future trends
- Recommend adjustments to each of the demographic assumptions

Demographic Assumptions



In looking at the actual versus expected experience, we use charts that compare actual to expected rates and then graph the proposed or revised assumed rates

Demographic Assumptions



- Square marker represents actual rate
- Box represents 90% confidence interval; smaller box means we had a lot of data (more credible); larger box means we only had a few data points (less credible)
- Red line represents current assumption
- Green line represents proposed assumption

- Instead of asking when a particular person will retire, we ask: out of 1,000 participants that are 55 years old, how many will retire next year?
- Instead of asking when a particular person will die, we ask: out of 1,000 males that are 80 years old, how many are expected to be around next year?

- When will active participants retire?
- **Current assumption:**
 - Age-based rates
 - Higher probability for those who are eligible for unreduced benefits
 - Tier 1 with 30 or more years of service
 - Normal Retirement
 - 100% retirement at age 70

Retirement



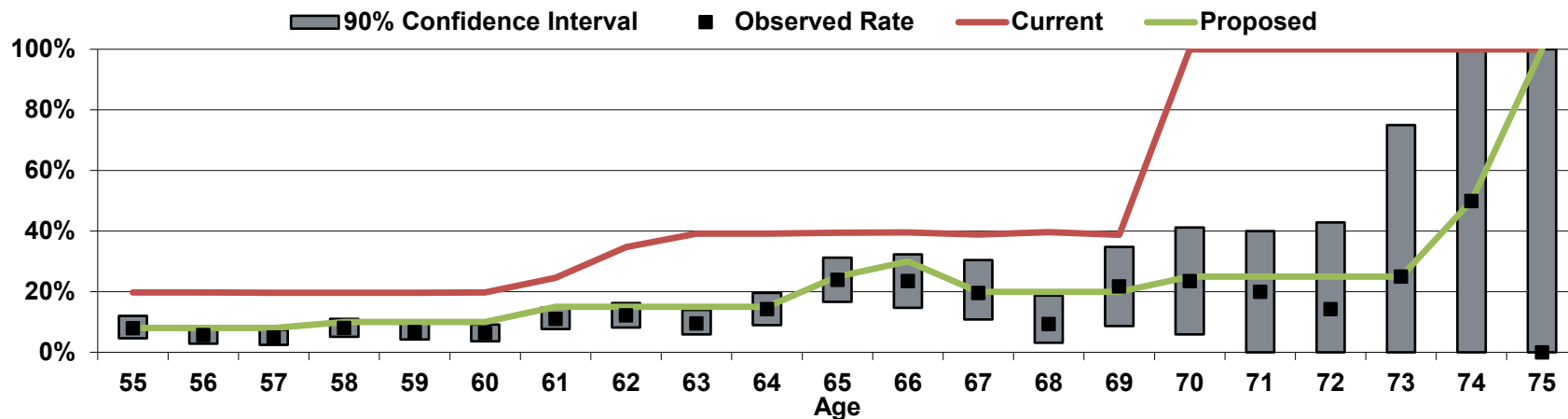
- Fewer actives retired than expected for both Tier 1 and Tier 2 participants
- More actives are working past age 70

Year	Tier 1			Tier 2		
	Actual	Expected	A/E Ratio	Actual	Expected	A/E Ratio
2017	38	137	0.28	166	390	0.43
2018	75	138	0.54	168	442	0.38
2019	38	125	0.30	170	481	0.35
2020	27	120	0.23	271	523	0.52
2021	55	125	0.44	318	515	0.62
Total	233	645	0.36	1,093	2,351	0.46

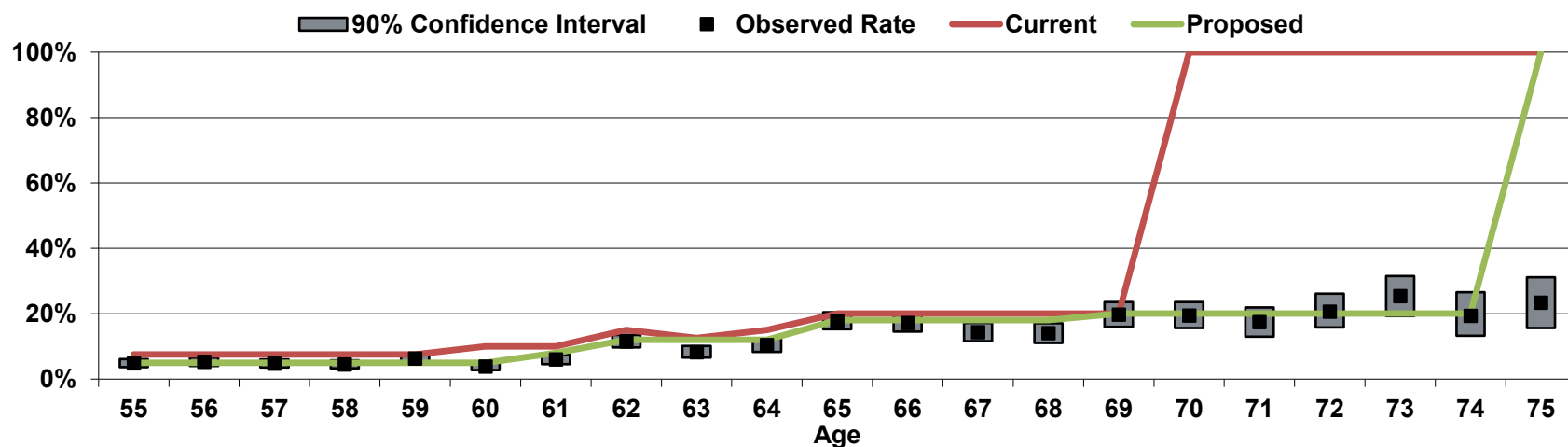
Retirement



T1 Retirement Rates



T2 Retirement Rates



Termination



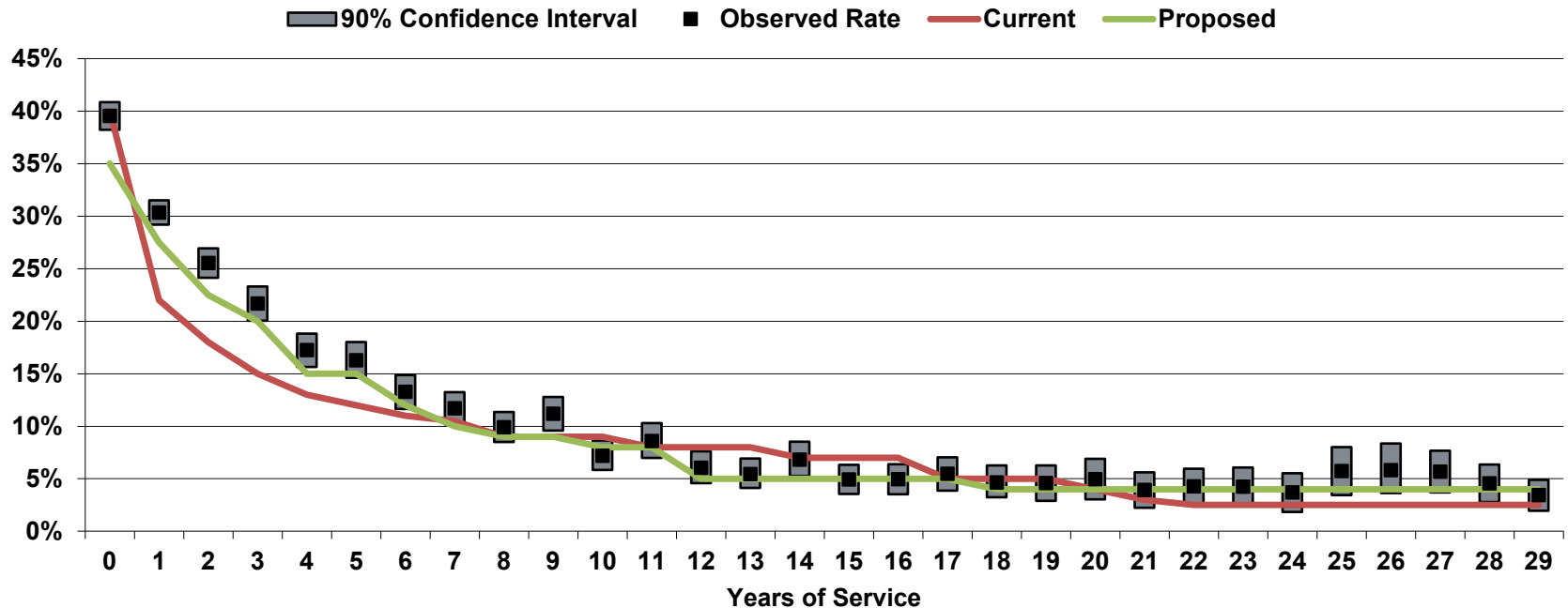
- Current assumption based on service with higher rates at early years of service
- 2021 experience seems to be an outlier and excluded it when identifying the proposed assumption

Year	Exposures	Actual	Expected	A/E Ratio
2017	8,111	1,476	1,146	1.29
2018	7,723	1,301	1,138	1.14
2019	7,606	1,337	1,140	1.17
2020	7,405	1,288	1,120	1.15
2021	7,488	1,880	1,167	1.61
Total	38,333	7,282	5,711	1.28
2017-2020	30,845	5,402	4,544	1.19

Termination



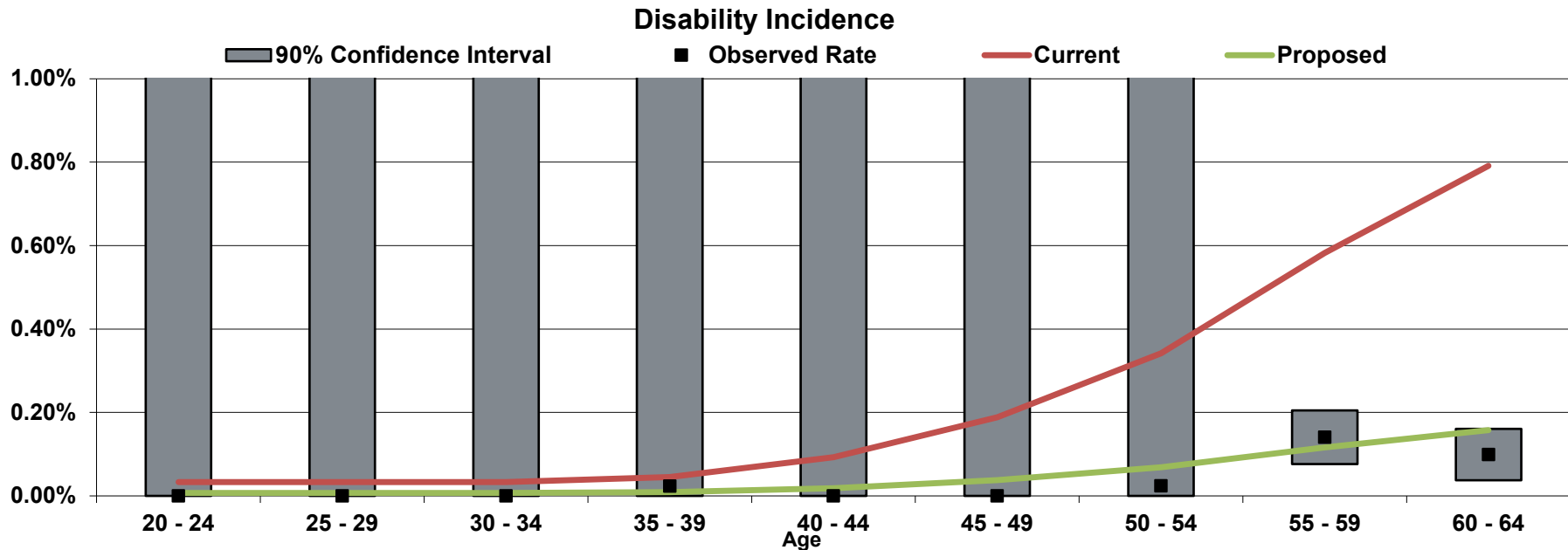
Termination Rates



- Proposed assumption slightly lowers rates in the middle years with slightly higher rates elsewhere

- What are the chances that an active participant becomes disabled?
- Current assumption is based on age with higher rates at later ages
- Very few new disabilities reported in past five years; low credibility

Disability



- Propose reducing rates to better reflect experience



- Marital assumptions determine the form of payment elected at retirement as well as the demographic information for the spouse
- Current assumptions:
 - 80% are assumed to be married
 - 56% are assumed to elect a joint & survivor benefit upon retirement
 - Husbands are assumed to be three years older than their wives



- Experience has shown much lower J&S election rates, with condensed spousal age differences
- Proposed assumptions:
 - 70% are assumed to be married
 - 20% are assumed to elect a joint & survivor benefit upon retirement
 - Husbands are assumed to be two years older than their wives



- Funding Target Liability
 - Estimated to decrease liability approximately \$800,000
 - All proposed assumption changes lowered liability
- Funding Target Normal Cost
 - Estimated to decrease normal cost by approximately \$150,000
 - Proposed retirement rates increased normal cost
 - Other proposed assumption changes decreased normal cost

Reliance



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This analysis was based on the current assumptions and methods and membership data used in performing the preliminary January 1, 2022 actuarial valuation and estimated financial data through December 31, 2022, except as otherwise noted. Assumptions, methods, and participant valuation data will be outlined in the January 1, 2022 Actuarial Valuation Report. Actual results can be expected to differ to the extent that future experience differs from the actuarial assumptions used.

This presentation and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this presentation. This presentation does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

The results of this presentation rely on future Plan experience conforming to the underlying assumptions and methods outlined in this presentation. To the extent that the actual Plan experience deviates from the underlying assumptions and methods, or there are any changes in Plan provisions or applicable laws, the results would vary accordingly.

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