

MILLIMAN REPORT

# Actuarial Valuation of The Local Income Continuation Insurance Plan

As of December 31, 2022

April 24, 2023

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April 24, 2023

Jim Guidry  
Director  
Benefit Services Bureau  
Wisconsin Department of Employee Trust Funds  
Madison, WI 53707

**RE: Actuarial Valuation of Local Income Continuation Insurance Plan as of December 31, 2022**

Dear Jim:

Thank you for the opportunity to perform an actuarial valuation of the Local Income Continuation Insurance (ICI) plan as of December 31, 2022. The valuation results are provided in this report, along with documentation of our calculation methods and assumptions.

The State of Wisconsin Department of Employee Trust Funds (ETF) has determined that the Local ICI plan is not subject to the provisions of GASB 74, which govern the financial reporting of Other Post-Employment Benefits (OPEBs) and require the use of pension accounting methods, including the calculation of a liability for active lives. We have therefore performed this valuation based on GASB 10 guidelines ("Accounting and Reporting for Risk Financing and Related Insurance Issues") which do not require the calculation of a liability for active lives. This approach is consistent with prior valuation work performed on the Local ICI plan. Ultimately it is the responsibility of ETF and its auditors to determine the applicable accounting standards for the plan.

Earlier this year, we performed experience studies for the Local ICI plan, and we used the results from these studies to update the assumptions for calculating liabilities and developing financial projections for the plan (the Milliman report dated April 13, 2023 provides documentation of the experience studies and new valuation assumptions). The new assumptions include claim termination and estimated offset assumptions, and are provided in Appendix D of this report. We used a discount rate of 6.8% for estimating Local ICI liabilities as of December 31, 2022 and for projecting investment income for the Local ICI reserve in our financial projections. This discount rate is consistent with last year's discount rate assumption. This discount rate was specified by ETF and is based on the most recent WRS Experience Study performed by GRS. We have performed no independent assessment of the reasonableness of this assumption. ETF is solely responsible for establishing the assumption and communicating any changes to Milliman for the purpose of this valuation.

On April 17, 2023, the Board approved adopting the Safe Harbor benefit schedule established by the U.S. Equal Employment Opportunity Commission for the Local ICI plan. We have estimated liabilities and developed financial projections for the Local ICI plan as of December 31, 2022 based on the Safe Harbor benefit schedule, which is included in Appendix B of this report.

This report is prepared solely for the internal business use of ETF. To the extent that Milliman's work is not subject to disclosure under applicable public records laws, Milliman's work may not be provided to third parties without Milliman's prior written consent. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. Milliman's consent to release its work product to any third party may be conditioned on the third party signing a release agreement, subject to the following exceptions:

- a) ETF may provide a copy of Milliman's work, in its entirety, to ETF's professional service advisors who are subject to a duty of confidentiality and who agree to not use Milliman's work for any purpose other than to benefit ETF; and

- b) ETF may provide a copy of Milliman's work, in its entirety, to other governmental entities, as required by law.

No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

In preparing this report, we relied, without audit, on information (some oral and some in writing) supplied by ETF and The Hartford, including historical claim and expense data. While Milliman has not audited this data, we have reviewed it for reasonableness and it is, in our opinion, sufficient and reliable for the purposes of our calculations. If any of this information is inaccurate or incomplete, the results shown could be materially affected and this report may need to be revised.

This analysis is only an estimate of the Local ICI plan's financial condition as of a single date. It can neither predict the plan's future condition nor guarantee future financial soundness. Actuarial valuations do not affect the ultimate cost of benefits, only the timing of employer contributions. While this report is based on the assumptions documented here, other assumption sets may also be reasonable and valuation results based on those assumptions would be different. No one set of assumptions is uniquely correct. Determining results using alternative assumptions is outside the scope of our engagement.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements; and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements. ETF has the final decision regarding the appropriateness of the assumptions and actuarial cost methods.

The consultants who worked on this assignment are actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices.

I, Paul L. Correia, FSA, MAAA, am a consulting actuary for Milliman, Inc. I am a member of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

I, Daniel D. Skwire, FSA, MAAA, am a consulting actuary for Milliman, Inc. I am a member of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Sincerely,



Paul L. Correia, FSA, MAAA  
Principal and Consulting Actuary  
Milliman, Inc.



Daniel D. Skwire, FSA, MAAA  
Principal and Consulting Actuary  
Milliman, Inc.

## Executive Summary

The actuarial liabilities for the Local ICI plan as of December 31, 2022 are summarized in Table 1.1 below:

**TABLE 1.1**  
**ACTUARIAL LIABILITIES FOR THE LOCAL ICI PLAN AS OF DECEMBER 31, 2022**

LIABILITY COMPONENT	BASIC BENEFITS	SUPPLEMENTAL BENEFITS	\$75 ADD-ON	TOTAL LIABILITY
Open Claims	\$6,873,302	\$334,860	\$35,101	\$7,243,263
IBNR Claims	\$447,326	\$21,793	\$2,284	\$471,404
Loss Adjustment Expense	\$461,524	\$22,485	\$2,357	\$486,366
<b>Total</b>	<b>\$7,782,153</b>	<b>\$379,138</b>	<b>\$39,743</b>	<b>\$8,201,033</b>

The values shown above include estimated liabilities for monthly ICI benefit payments (Basic Benefits and Supplemental Benefits), and for additional benefits of \$75 per month to disabled members whose disability lasts longer than 12 months, to help these members with medical expenses (\$75 Add-on). The liability for the \$75 Add-on benefit only reflects the cost for disabled members who had not yet received the benefit as of December 31, 2022. For members who had already received the \$75 Add-on benefit, the liability is reflected in the liability for Basic Benefits.

We estimated the liabilities as of December 31, 2022 using new valuation assumptions for the Local ICI plan. These assumptions are based on the results of recent experience studies performed by Milliman using historical plan experience. Additional details on the experience studies and new assumptions are provided in our report dated April 13, 2023. The new valuation assumptions are also included in Appendix D of this report.

The Local ICI reserve (i.e., the funds available to cover future plan obligations) decreased by \$0.5 million between December 31, 2021 and December 31, 2022. The reserve earned \$2.6 million in investment income (6.0%) in 2022, which is 80 basis points lower than the 6.8% investment income assumption for the plan, and approximately \$0.5 million lower than insurance claims and expenses in 2022 (\$3.2 million). There were no premium contributions in 2022 because premiums for the Local ICI plan have been waived since 2012. The Local ICI reserve was equal to 527% of the actuarial liability as of December 31, 2022, which is significantly higher than the target range of 145% to 155% established by the Group Insurance Board for this plan. Table 1.2 below shows Local ICI reserve balances and financial experience from 2020 through 2022. Our projection of future funding levels, provided in Appendix A, indicates that the Local ICI plan is expected to maintain a significant level of surplus for the foreseeable future. It is therefore reasonable to continue waiving the premium contribution on this plan for the near term.

**TABLE 1.2**  
**LOCAL ICI RESERVE BALANCES AND FINANCIAL EXPERIENCE FROM 2020 THROUGH 2022**

<b>BALANCE SHEET COMPONENT</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>A. Beginning Reserve Balance</b>	<b>\$39,603,652</b>	<b>\$41,601,274</b>	<b>\$43,754,728</b>
B. Closing Adjustments	(\$2,673)	(\$2,371)	(\$3,194)
C. Adjusted Beginning Reserve Balance	\$39,600,979	\$41,598,903	\$43,751,534
D. Premium Contributions	\$0	\$0	\$0
E. Investment Earnings	\$4,058,283	\$5,027,504	\$2,635,324
F. Insurance Claims	\$1,560,355	\$2,260,238	\$2,502,592
G. Administrative Expenses	\$497,633	\$611,441	\$663,451
<b>H. Ending Reserve Balance (C + D + E – F – G)</b>	<b>\$41,601,274</b>	<b>\$43,754,728</b>	<b>\$43,220,815</b>
I. Actuarial Liability	\$6,797,975	\$7,159,842	\$8,201,033
J. Surplus (H – I)	\$34,803,299	\$36,594,886	\$35,019,782

## Actuarial Valuation

The actuarial liabilities for the Local ICI Plan consist of the following components:

- **Liability for Open Claims:** Present value of expected benefits payable to members disabled prior to December 31, 2022, whose claims had been reported to ETF on or before that date. There were 110 open claims and no pending claims reported as of the valuation date.
- **Liability for Incurred but not Reported (IBNR) Claims:** Present value of expected benefits payable to members disabled prior to December 31, 2022, but whose claims had not yet been reported to ETF as of that date.
- **Liability for Loss Adjustment Expenses:** Present value of expected expenses related to the ongoing management and payment of open and IBNR claims.

The following table compares the estimated liabilities for the Local ICI plan as of December 31, 2021 and December 31, 2022:

LIABILITY COMPONENT	DECEMBER 31, 2021	DECEMBER 31, 2022
Open Claims	\$6,375,611	\$7,243,263
IBNR Claims	\$376,065	\$471,404
Loss Adjustment Expense	\$408,166	\$486,366
<b>Total</b>	<b>\$7,159,842</b>	<b>\$8,201,033</b>

The total liability increased by 14.5% from \$7.2 million as of December 31, 2021 to \$8.2 million as of December 31, 2022. This increase was primarily driven by an increase in the liability for open claims. The impact of using updated valuation assumptions for calculating plan liabilities was a 3.9% decrease in the total liability as of December 31, 2022, with all else equal.

The liability for open claims increased by 13.6% from \$6.4 million as of December 31, 2021 to \$7.2 million as of December 31, 2022. The number of open claims increased by 11.1% from 99 as of December 31, 2021 to 110 as of December 31, 2022, and the average net benefit amount increased by 3.4% from \$1,831 as of December 31, 2021 to \$1,893 as of December 31, 2022. The change in valuation assumptions resulted in a 4.4% decrease in the open claim liability as of December 31, 2022, with all else equal. The impact of adopting the Safe Harbor benefit schedule is a 1.0% increase in the open claim liability, with all else equal.

The liability for IBNR claims increased by 25.4% reflecting an increasing trend in Local ICI incurred claims in recent years, in part, due to increased participation in the plan among local employers. Incurred claims experience has been volatile due to the low volume of claims and increased participation in the plan. The increase in the loss adjustment expense liability is primarily driven by the increase in the number of open claims.

The liabilities were calculated based on a discount rate of 6.8%, which is the same discount rate used last year. The discount rate assumption is prescribed by ETF and we have performed no independent assessment of the reasonableness of this assumption.

The liabilities for open claims, IBNR claims, and loss adjustment expenses are discussed in greater detail below. Appendix D of this report includes additional documentation of the valuation assumptions.

### Open Claims

We performed experience studies and updated the valuation assumptions for computing the December 31, 2022 liabilities for the Local ICI plan (documentation of these experience studies and the new assumptions was provided in Milliman's report dated April 13, 2023). Like the prior assumptions, the new assumptions include adjustment factors to the claim termination rates from the 2012 Group Long-Term Disability Valuation Table. This table is the most recent industry valuation table for projecting long-term disability claims and is used by disability insurers for calculating long-term disability claim liabilities. The updated assumptions also include new assumptions for estimating benefits from other sources that offset the ICI benefit amount. The claim termination rate adjustment factors and estimated offset assumptions are included in Appendix D of this report. We used a 6.8% discount rate assumption for calculating Local ICI liabilities which was prescribed by ETF and is the same as last year's discount rate assumption.

We tested these assumptions by performing retrospective runoff tests using State ICI claim experience from 2017 through 2021, because historical Local ICI experience has been volatile due to the small volume of open claims, and we do not consider the experience credible for validating the assumptions. We believe that the State ICI runoff tests provide a reasonable basis for validating the assumptions for open Local ICI claims, because the Local and State ICI plans have similar plan designs and both are administered by The Hartford. In performing the runoff tests, we calculated liabilities for claims that were open on prior valuation dates using the current valuation assumptions, then we determined whether those liabilities provided sufficient funding for the emerging claim costs. The emerging claim costs were calculated as the present value of benefit payments made during the study period, plus the present value of the remaining liability for claims still open at the end of the study period. The results from the runoff studies are shown below, summarized as the combined result from five mutually distinct 12-month studies using State ICI experience from 2017 through 2021.

**TABLE 2.2**  
**RUNOUT STUDY FOR THE ICI PLANS BASED ON EXPERIENCE FROM 2017 THROUGH 2021**

CLAIM DURATION	AVERAGE ANNUAL MARGIN
1 – 12 months	4.0%
13 – 24 months	3.7%
25 – 36 months	3.7%
37 – 48 months	1.1%
49 – 60 months	1.0%
61 + months	1.6%
<b>Total</b>	<b>2.2%</b>

In the preceding table, a positive average annual margin indicates the estimated liability provided adequate funding for the runoff of open claims during the study period, while a negative result indicates a deficiency. For this type of plan, we typically target a positive overall average annual margin of 1% to 5%, with reasonably consistent patterns by claim duration. The results in the preceding table show that the updated assumptions produce liability estimates with these target margins in every duration and overall.

### IBNR Claims

The liability for IBNR claims represents the present value of expected benefits for claims incurred on or prior to December 31, 2022 that were unreported as of that date. We have assumed that all IBNR claims were incurred in 2022, and that 25% of claims incurred in 2022 were unreported as of the valuation date. This is the same assumption as last year, and was determined from an analysis performed by Milliman in 2020 of unreported claims at various historical year-end dates, using Local ICI claim experience from 2015 through 2019. We have also assumed that the total cost



of claims incurred in 2022 will be \$1.9 million, based on an analysis of Local ICI incurred claim costs from 2016 through 2021. The calculation of the liability for IBNR claims is provided below:

**TABLE 2.3  
LIABILITY FOR LOCAL ICI IBNR CLAIMS AS OF DECEMBER 31, 2022**

A. Estimated Incurred Claims	\$1,885,615
B. Assumed Proportion of Unreported Claims	25.0%
C. IBNR Liability as of December 31, 2022 (A x B)	\$471,404

### **Loss Adjustment Expenses**

The liability for loss adjustment expenses was calculated using the following administrative fees specified by The Hartford in 2020 in its response to the request for proposals for administering the ICI program.

**TABLE 2.4:  
ASSUMED CLAIM ADMINISTRATION FEES**

FEE COMPONENT	ASSUMED AMOUNT
One-time new claim fee	\$1,488 per new claim
Monthly fee, first two years	\$130 per month
Monthly fee, years 3 +	\$66 per month

We calculated the liability for loss adjustment expenses separately for open claims and IBNR claims. For open claims, the liability represents the present value of expected future claim administration fees for open claims. Expected fees were projected using the same claim termination rate assumptions as the assumptions used for calculating the open claim liabilities. For IBNR claims, we assumed the one-time new claim fee applies to 40 claims unreported as of the valuation date, based on trends in claim incidence between 2016 and 2021. We estimated the loss adjustment expense liability for ongoing monthly fees for IBNR claims based on the relationship between the IBNR claim liability to the open claim liability. The December 31, 2022 loss adjustment expense liabilities are shown below for open claims, IBNR claims, and in total.

**TABLE 2.5:  
LIABILITY FOR LOSS ADJUSTMENT EXPENSES AS OF DECEMBER 31, 2022**

LIABILITY COMPONENT	ESTIMATED LIABILITY
Open claims	\$400,240
IBNR claims	\$86,126
<b>Total</b>	<b>\$486,366</b>

## Local ICI Funding Analysis

We performed a funding analysis based on the Local ICI reserve balance as of December 31, 2022 and a projection of estimated future experience for the Local ICI plan. The reserve decreased by approximately \$0.5 million from \$43.8 million as of December 31, 2021 to \$43.2 million as of December 31, 2022. There were no premium contributions in 2022 because premiums have been waived since 2012 due to excess surplus in the Local ICI reserves relative to the target level. The reserve balance is equal to 527% of the actuarial liability as of December 31, 2022, which is significantly higher than the target range of 145% to 155% established by the Group Insurance Board for the Local ICI plan.

**TABLE 3.1**  
**LOCAL ICI FUNDING ANALYSIS**

<b>BALANCE SHEET COMPONENT</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>A. Beginning Reserve Balance</b>	<b>\$39,603,652</b>	<b>\$41,601,274</b>	<b>\$43,754,728</b>
B. Closing Adjustments	(\$2,673)	(\$2,371)	(\$3,194)
C. Adjusted Beginning Reserve Balance	\$39,600,979	\$41,598,903	\$43,751,534
D. Premium Contributions	\$0	\$0	\$0
E. Investment Earnings	\$4,058,283	\$5,027,504	\$2,635,324
F. Insurance Claims	\$1,560,355	\$2,260,238	\$2,502,592
G. Administrative Expenses	\$497,633	\$611,441	\$663,451
<b>H. Ending Reserve Balance (C + D + E – F – G)</b>	<b>\$41,601,274</b>	<b>\$43,754,728</b>	<b>\$43,220,815</b>
I. Actuarial Liability	\$6,797,975	\$7,159,842	\$8,201,033
J. Surplus (H – I)	\$34,803,299	\$36,594,886	\$35,019,782

We developed financial projections to evaluate the long-term performance of the Local ICI reserve. The projections are provided in Appendix A and reflect actual experience for 2022 and projected experience for 2023 and beyond. The key elements of our financial projections include the following:

- **Beginning Reserve Balance:** The projected beginning reserve balance for each year is equal to the prior year's ending reserve balance.
- **Payroll:** Since Local ICI payroll was not available, we estimated current payroll based on payroll data for the State ICI plan and by assuming that the ratio of incurred claims to payroll is similar for both programs. Future payroll is assumed to increase 3.0% per year, which is consistent with the assumptions used by ETF for retirement fund projections. We have also assumed that enrollment will increase by 2% every year due to the premium holiday.
- **Premium Contributions:** Premiums are assumed to be waived in all future years given the plan's significant surplus.
- **Investment Income:** Smoothed investment income on assets backing reserves. The annual investment income in 2023 and beyond is projected as 6.8% of the reserve balance at the beginning of the year.
- **Insurance Claims:** Annual insurance claims are the sum of projected payments on existing claims as of December 31, 2022, and payments on expected future claims incurred after December 31, 2022. Insurance claims for 2023

and beyond are equal to 0.59% of payroll based on historical ICI experience from 2016 through 2021, which includes explicit margin of 5%<sup>1</sup>. Benefit payments for these new claims are then computed using runout patterns generated from our valuation assumptions, which in turn are based on recent plan experience.

- **Administrative Expenses:** Administrative expenses are modeled as a constant percentage of paid insurance claims, based on actual values in 2022.
- **Ending Reserve Balance:** The ending reserve balance equals the starting balance, plus premiums, plus investment earnings, less claims, and less expenses.
- **Actuarial Liability:** The actuarial liability is modeled in a similar fashion to the insurance claims. It represents the sum of the decreasing liability on claims that existed as of December 31, 2022 and of the increasing liability for new claims incurred after December 31, 2022.
- **Surplus or Deficit:** The projected surplus or deficit equals the ending reserve balance less the actuarial liability.
- **Fund Ratio:** Ratio of Local ICI reserve balance to the actuarial liability. The target fund ratio range for the Local ICI plan is 145% to 155% of the actuarial liability.

The financial projections are included in Appendix A, along with a description of the scenarios that were assumed for projecting Local ICI experience. Our projections indicate that the Local ICI plan is expected to maintain a significant level of surplus for the foreseeable future. In 2019, the Board approved a fund ratio target range of 145% - 155% of the actuarial liability for the Local ICI plan. Based on our financial projections, the reserve balances are expected to exceed this target in every future year of the projection. It is therefore reasonable to continue waiving the premium contribution on this plan for the near term.

The financial projections shown below depend on a variety of actuarial assumptions about future experience, including but not limited to investment earnings, payroll growth, and disability claim experience. It is nearly certain that actual experience will vary from these assumptions, meaning that the plan's actual surplus or deficit will be higher or lower than the illustrated values.

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<sup>1</sup> Last year, we included 10% explicit margin and adjustments for aging in our projection of new claims. Based on our recent experience studies and on a comparison of actual claims to projected claims from prior valuations, we have reduced the explicit margin from 10% to 5% and removed the aging factor. These adjustments result in lower liabilities for new claims, with all else equal.

## Appendix A: Financial Projections

We developed financial projections for the Local ICI plan based on the following scenario:

1. **Baseline Scenario:** Premium contributions waived throughout the projection period, and Local ICI benefit enhancements<sup>2</sup> become effective on January 1, 2024. In the Baseline scenario, the fund ratio is projected to decrease from 527% of the actuarial liability as of December 31, 2022 to 339% of the actuarial liability as of December 31, 2028.

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<sup>2</sup> These enhancements include extending basic annual covered payroll from \$64,000 to \$120,000 and eliminating supplemental benefits.

**Baseline Scenario:** Premium contributions waived throughout the projection period, and Local ICI benefit enhancements become effective on January 1, 2024.

Calendar Year	Actual	Projected -->					
	2022	2023	2024	2025	2026	2027	2028
BOY Reserve Balance	\$43,751,534	\$43,220,815	\$42,888,618	\$42,428,663	\$41,832,262	\$41,090,137	\$40,192,378
Premium Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Investment Income	\$2,635,324	\$2,939,015	\$2,916,426	\$2,885,149	\$2,844,594	\$2,794,129	\$2,733,082
Total Revenues	\$2,635,324	\$2,939,015	\$2,916,426	\$2,885,149	\$2,844,594	\$2,794,129	\$2,733,082
Insurance Claims	\$2,502,592	\$2,585,723	\$2,668,853	\$2,751,984	\$2,835,115	\$2,918,245	\$3,001,376
Carrier Administrative Expenses	\$398,700	\$411,944	\$425,188	\$438,432	\$451,676	\$464,920	\$478,164
Administrative Expense	\$264,751	\$273,545	\$282,340	\$291,134	\$299,929	\$308,723	\$317,518
Total Operating Expenses	\$3,166,043	\$3,271,212	\$3,376,381	\$3,481,550	\$3,586,719	\$3,691,888	\$3,797,057
Net Change in Reserve Balance	(\$530,719)	(\$332,197)	(\$459,955)	(\$596,401)	(\$742,125)	(\$897,759)	(\$1,063,976)
EOY Reserve Balance	\$43,220,815	\$42,888,618	\$42,428,663	\$41,832,262	\$41,090,137	\$40,192,378	\$39,128,402
Actuarial Liability	\$8,201,033	\$8,587,591	\$9,354,281	\$9,984,187	\$10,536,804	\$11,036,091	\$11,550,463
Surplus / (Deficit)	\$35,019,782	\$34,301,027	\$33,074,382	\$31,848,076	\$30,553,333	\$29,156,286	\$27,577,939
<b>Fund Ratio</b>	<b>527%</b>	<b>499%</b>	<b>454%</b>	<b>419%</b>	<b>390%</b>	<b>364%</b>	<b>339%</b>

## Appendix B: Plan Description

The Local ICI Plan provides short term and long-term disability benefits as summarized below:

- **Elimination Period:** Participating employees select an elimination period up to 180 days. Benefits are reduced for any vacation, sick leave, holiday, or compensation pay received after the elimination period.
- **Maximum Benefit Period:** The following table shows the maximum duration of benefits:

**TABLE B.1**  
**MAXIMUM BENEFIT PERIOD**

AGE AT DISABLEMENT	MAXIMUM BENEFIT PERIOD
Age 60 or below	To Age 65
Above Age 60	5 Years

- **Benefit Amount:** The basic benefit provides up to 75% of a participant's average monthly earnings, capped at \$4,000 per month. Supplemental coverage is available to employees whose annual salary exceeds \$64,000, and provides an additional benefit up to \$3,500 per month. For disabilities lasting longer than 12 months, a supplement of \$75 per month is added to the normal benefit amount.
- **Benefit Increases:** None
- **Benefit Offsets:** The ICI plan benefit is offset by income received from other sources including, but not limited to: Social Security benefits (regular or disability), unemployment compensation, Worker's Compensation (except permanent disability awards), WRS benefits (retirement, disability retirement, Long-Term Disability Insurance, or separation), work earnings, and Duty Disability benefits.
- **Definition of Disability:** During the first 12 months of disability, the participant is disabled if unable to perform his or her job and under the care of a physician. After the first 12 months of disability, the participant is disabled if unable to engage in any substantial gainful activity for which he or she is reasonably qualified.
- **Premium Contributions:** Premiums have been waived since 2012 for basic and supplemental benefits.

## Appendix C: Data for Valuation

This appendix contains demographic summaries for the open Local ICI claims as of December 31, 2022. There were 110 open claims as of the valuation date. The following tables provide distributions of Local ICI claims by gender and disability year, and by gender and disability age, respectively.

**TABLE C1**  
**OPEN LOCAL ICI CLAIMS AS OF DECEMBER 31, 2022 BY DISABILITY YEAR AND GENDER**

<b>Disability Year</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
2001 and earlier	1	2	3
2002	1	0	1
2003	1	0	1
2004	0	2	2
2005	1	2	3
2006	1	1	2
2007	0	0	0
2008	0	0	0
2009	2	2	4
2010	4	0	4
2011	2	0	2
2012	0	0	0
2013	1	1	2
2014	1	3	4
2015	3	2	5
2016	5	0	5
2017	1	1	2
2018	0	1	1
2019	4	3	7
2020	4	4	8
2021	15	9	24
2022	15	15	30
<b>Total</b>	<b>62</b>	<b>48</b>	<b>110</b>

**TABLE C2**  
**OPEN LOCAL ICI CLAIMS AS OF DECEMBER 31, 2022 BY DISABILITY AGE AND GENDER**

Disability Age	Male	Female	Total
Under 20	0	0	0
20-24	0	0	0
25-29	1	1	2
30-34	8	5	13
35-39	6	4	10
40-44	11	7	18
45-49	11	8	19
50-54	10	10	20
55-59	12	6	18
60-64	3	7	10
65 or above	0	0	0
<b>Total</b>	<b>62</b>	<b>48</b>	<b>110</b>



The following tables show a distribution of the Local ICI net monthly benefit amounts as of December 31, 2022 by year of disability and gender, and by age at disability and gender, respectively.

**TABLE C3**  
**LOCAL ICI NET MONTHLY BENEFIT AMOUNTS AS OF DECEMBER 31, 2022 BY YEAR OF DISABILITY AND GENDER**

<b>Disability Year</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
2001 and earlier	\$366	\$1,604	\$1,970
2002	1,122	0	1,122
2003	3,023	0	3,023
2004	0	1,703	1,703
2005	137	265	402
2006	857	192	1,049
2007	0	0	0
2008	0	0	0
2009	215	1,486	1,701
2010	8,938	0	8,938
2011	1,364	0	1,364
2012	0	0	0
2013	268	67	335
2014	510	4,073	4,583
2015	4,807	1,413	6,219
2016	8,145	0	8,145
2017	1,863	321	2,185
2018	0	1,605	1,605
2019	7,119	3,243	10,362
2020	6,920	2,528	9,448
2021	38,594	16,711	55,305
2022	46,689	42,127	88,815
<b>Total</b>	<b>\$130,937</b>	<b>\$77,338</b>	<b>\$208,275</b>

**TABLE C4**  
**LOCAL ICI NET MONTHLY BENEFIT AMOUNTS AS OF DECEMBER 31, 2022 BY DISABILITY AGE AND GENDER**

<b>Disability Age</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
Under 20	\$0	\$0	\$0
20-24	0	0	0
25-29	2,075	2,188	4,263
30-34	25,495	6,473	31,968
35-39	12,069	10,561	22,630
40-44	18,147	9,793	27,941
45-49	14,891	7,350	22,241
50-54	17,982	17,729	35,711
55-59	31,093	7,887	38,980
60-64	9,184	15,358	24,543
65 or above	0	0	0
<b>Total</b>	<b>\$130,937</b>	<b>\$77,338</b>	<b>\$208,275</b>

## Appendix D: Actuarial Methods and Assumptions

- **Valuation Date:** December 31, 2022
- **Discount Rate:** 6.8%, specified by ETF. This assumption represents a long-term investment return for the Local ICI reserve.
- **Claim Termination Rates:** Claim termination rate assumptions were derived from ICI program experience relative to the 2012 Group Long-Term Disability Valuation Table, as shown below:

**TABLE D1**  
**CLAIM TERMINATION RATE ADJUSTMENT FACTORS TO 2012 GLTD**

DISABILITY DURATION	ADJUSTMENT FACTOR
1 – 12 months	1.20
13 – 24 months	1.60
25 – 36 months	0.85
37 – 48 months	0.40
49 – 60 months	0.25
61 -120 months	0.85
121 + months	1.30

- **Estimated Offset Assumptions:** Estimated Social Security, Other Disability, and Pension/retirement offset assumptions were derived from ICI program experience and are provided below:

**TABLE D2**  
**CUMULATIVE SSDI APPROVAL PROBABILITIES**

PROJECTED DURATION (YEARS)	DURATION AS OF VALUATION DATE (YEARS)							
	1	2	3	4	5	6	7	8+
1	0%							
2	11%	0%						
3	29%	10%	0%					
4	43%	26%	9%	0%				
5	55%	43%	29%	13%	0%			
6	65%	55%	45%	32%	7%	0%		
7	69%	61%	52%	41%	19%	5%	0%	
8+	71%	63%	54%	44%	24%	11%	0%	0%

**TABLE D3  
CUMULATIVE OTHER DISABILITY APPROVAL PROBABILITIES**

PROJECTED DURATION (YEARS)	DURATION AS OF VALUATION DATE (YEARS)							
	1	2	3	4	5	6	7	8+
1	0%							
2	3%	0%						
3	14%	8%	0%					
4	26%	20%	6%	0%				
5	35%	30%	17%	7%	0%			
6	39%	35%	23%	13%	0%	0%		
7	39%	35%	23%	13%	0%	0%	0%	
8+	39%	35%	23%	13%	0%	0%	0%	0%

**TABLE D4  
CUMULATIVE PENSION/RETIREMENT APPROVAL PROBABILITIES**

PROJECTED DURATION (YEARS)	DURATION AS OF VALUATION DATE (YEARS)		
	1	2	3+
1	0%		
2	10%	0%	
3+	21%	0%	0%

We also assumed offset amounts equal to 45% of the gross benefit amount for estimated SSDI benefits, 36% of the gross benefit amount for estimated Pension/Retirement benefits, and 50% of the gross benefit amount for estimated Other Disability benefits.

- **Incurred But Not Reported Claims:** 25% of the estimated incurred claims for the current year, determined from analyses of historical ICI claims experience.
- **Overpayment Credit:** We assume that 75% of the December 31, 2022 overpayment balance will eventually be recovered, and we applied this amount as an offset to the total liability. This assumption is based on an analysis performed by Milliman in 2022-2023 of historical overpayment balances and recoveries for the Local ICI plan.
- **Loss Adjustment Expenses:** Assumed claim administration fees are provided below:

**TABLE D5**  
**ASSUMED ADMINISTRATIVE FEES**

<b>FEE COMPONENT</b>	<b>ASSUMED FEES</b>
New claim fee	\$1,488 per new claim
Monthly fee, years 1 and 2	\$130 per month
Monthly fee, years 3+	\$66 per month

## Appendix E: Reliance Items

In performing the valuation, we relied, without audit, on certain data and information provided by ETF and The Hartford. To the extent any of the data or other items was incomplete or inaccurate, the results of our work may be materially affected. The principal items on which we relied included the following:

- Lists of open disability claims and related information provided by The Hartford;
- Reserve balances, premium contributions, plan expenses, covered payroll, and other financial information provided by ETF;
- Plan descriptions provided by ETF; and
- Discussions with ETF and staff at The Hartford.



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