OUTSTATE MICHIGAN TROWEL TRADES PENSION PLAN

Actuarial Valuation Report For Plan Year Commencing January 1, 2024



September 26, 2024

Board of Trustees Outstate Michigan Trowel Trades Pension Plan

Dear Trustees:

We have been retained by the Board of Trustees of the Outstate Michigan Trowel Trades Pension Plan to perform annual actuarial valuations of the pension plan. This report presents the results of our actuarial valuation for the plan year beginning January 1, 2024. The valuation results contained herein are based on current plan provisions summarized in Appendix A, the actuarial assumptions and methods listed in Appendix B and on financial statements audited by Benda, Grace, Stulz & Company, P.C. Participant data was provided by TIC Midwest Administrative Solutions. While we have reviewed the data for reasonableness in accordance with Actuarial Standards of Practice No. 23, we have not audited it. The data was relied on as being both accurate and comprehensive.

This report has been prepared in order to (1) assist the Trustees in evaluating the current actuarial position of the plan, (2) determine the minimum required and maximum deductible contribution amounts under Internal Revenue Code §431 and §404, (3) provide the fund's auditor with information necessary to comply with Accounting Standards Codification 960, and (4) document the plan's certified status under Internal Revenue Code §432 for the current year and provide the basis to certify such status for the subsequent year. In addition, information contained in this report will be used to prepare Schedule MB of Form 5500 that is filed annually with the IRS and could be used to calculate employer withdrawal liability. We are not responsible for the use of, or reliance upon, this report for any other purpose.

We have prepared this report in accordance with generally accepted actuarial principles and practices and have performed such tests as we considered necessary to assure the accuracy of the results. The results have been determined on the basis of actuarial assumptions that, in my opinion, are appropriate for the purposes of this report, are individually reasonable and in combination represent my best estimate of anticipated experience under the plan. Actuarial assumptions may be changed from previous valuations due to changes in mandated requirements, plan experience resulting in changes in expectations about the future, and/or other factors. An assumption change does not indicate that prior assumptions were unreasonable when made. For purposes of current liability calculations, assumptions are prescribed by regulation or statute. By relying on this valuation report, the Trustees confirm they have accepted the assumptions contained in the report.

The results are based on my best interpretation of existing laws and regulations and are subject to revision based on future regulatory or other guidance.

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 (such as the end of an

amortization period or additional cost or contribution requirements based on the plan's funded status), and changes in plan provisions or applicable law.

United Actuarial Services, Inc. does not provide, nor charge for, investment, tax or legal advice. None of the comments made herein should be construed as constituting such advice. I am not aware of any direct or material indirect financial interest or relationship that could create a conflict of interest that would impair the objectivity of our work.

The undersigned actuary meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained in this report. I am available to respond to any questions you may have about this report.

UNITED ACTUARIAL SERVICES, INC.

Enrolled Actuary

Paul Wedding, ASA, EA, MAAA

Consulting Actuary

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PART I: SUMMARY OF RESULTS

5 - YEAR SUMMARY OF VALUATION RESULTS

Actuarial Study					
as of January 1,	2024	2023	2022	2021	2020
PPA funded status Improvements restricted*	Safe Yes	Safe Yes	Safe Yes	Safe Yes	Safe Yes
Funded ratio Valuation report (AVA) Valuation report (MVA) PPA certification (AVA)		89.8% 80.9% 90.2%	91.7% 95.7% 93.7%	90.9% 91.5% 89.7%	88.3% 87.7% 89.1%
Proj. year of insolvency	None	None	None	None	None
Credit balance (\$ 000)	16,844	17,369	16,743	16,025	16,073
Date of first projected fun- Valuation report PPA certification	ding deficiency None ^{None}	(with extens 12/31/31 12/31/30	ion) None None	None None	None None
Net investment return On market value On actuarial value	12.61% 6.31%	-9.96% 4.08%	12.65% 8.85%	9.47% 7.95%	14.31% 5.49%
Asset values (\$ 000) Market Actuarial	81,193 85,215	73,992 82,100	84,345 80,890	76,374 75,836	71,404 71,897
Accum. ben. (\$ 000)	94,299	91,434	88,169	83,440	81,412
Assets (Actuarial) Assets (Actuarial) Assets (Market) Accumulated Benefits 100,0 90,0 80,0 70,0 60,0 40,0 30,0 20,0 10,0	000				

Benefit improvement restrictions due to fund having amortization extension. Restrictions will remain in place until 1/1/2038 when bases with amortization extension have been fully amortized.

5 - YEAR SUMMARY OF DEMOGRAPHICS

				ı	
Actuarial Study					
as of January 1,	2024	2023	2022	2021	2020
Participant counts Active Inactive vested Receiving benefits Total Average entry age Average attained age	318 480 517 1,315 31.9 44.6	302 495 502 1,299 32.1 44.8	314 497 488 1,299 32.3 44.6	332 507 468 1,307 32.1 44.4	329 492 468 1,289 32.3 44.7
Actives Inactive Vested Retirees 300					
Hours worked in prior plan Expected hours valuate Expected hours PPA of Actual hours worked 600	ion 451 eert 475 514	461 475 479	477 475 486	474 475 494	473 475 524
Expected Hrs-Valuation Expected Hrs-PPA Cert Actual Hrs 200					

CHANGES FROM PRIOR STUDY

Changes in Plan Provisions

The plan provisions underlying this valuation are the same as those valued last year.

Changes in Actuarial Assumptions and Methods

The actuarial assumptions and methods used in this valuation differ from those used in the prior valuation in the following respects:

- The assumed mortality adjustment applied to the base mortality table was changed from 105% to 110% for males and from 95% to 105% for females. Neither the base mortality table nor the mortality projection scale were changed. These percent adjustments incorporate credible plan experience into expected mortality.
- The assumed non-credited hourly contribution rate was increased to \$2.62 to reflect the remaining prorated portion negotiated increase effective June 1, 2023.
- The assumed future hours worked were increased from 1,600 hours to 1,650 hours per future year for vested active lives and from 1,225 hours to 1,250 hours per future year for non-vested active lives. This represents our best estimate of future hours based on recent plan experience.
- The expense load on ASC 960 liabilities was changed from 4.50% to 4.25% based on recent plan experience.
- The current liability interest rate was changed from 2.19% to 2.77%. The new rate is within established statutory guidelines.

HISTORY OF MAJOR ASSUMPTIONS

	Actuarial Study as of January 1,						
Assumption	2024	2023	2022	2021	2020		
Future rate of net	7.50%	7.50%	7.50%	7.75%	7.75%		
investment return							
Mortality table	PRI-2012	PRI-2012	PRI-2012	PRI-2012	PRI-2012		
Adjustment	110% M/	105% M/	105% M/	100% M/	100%		
	105% F	95% F	95% F	95% F			
Projection scale	MP-2021	MP-2021	MP-2021	MP-2020	MP-2019		
Future expenses							
Initial year	\$235,750	\$230,000	\$240,000	\$240,000	\$240,000		
Annual increase	2.50%	2.50%	0.00%	0.00%	0.00%		
Average future hourly							
contribution rate*							
Credited	\$4.47	\$4.45	\$4.43	\$4.39	\$4.32		
Non-credited	2.62	<u>2.52</u>	2.22	2.22	2.22		
Total	\$7.09	\$6.97	\$6.65	\$6.61	\$6.54		
Average future annual hor	urs						
Vested	1,650	1,600	1,600	1,550	1,550		
Non-vested	1,250	1,225	1,200	1,200	1,200		
Assumptions used for pro	iections						
Return, first 10 years	7.25%	7.25%	6.75%	6.75%	7.25%		
Annual hours (000)	490	490	475	475	475		

^{*} Actual average derived from application of assumptions specified in Appendix B.

EXPERIENCE VS. ASSUMPTIONS

Comparing the prior year's experience to assumptions provides indications as to why overall results may differ from those expected

Actuarial assumptions are used to project certain future events related to the pension plan (e.g. deaths, withdrawals, investment income, expenses, etc.). While actual results for a single plan year will rarely match expected experience, it is intended that the assumptions will provide a reasonable long term estimate of developing experience.

The following table provides a comparison of expected outcomes for the prior plan year with the actual experience observed during the same period. This display may provide insight as to why the plan's overall actuarial position may be different from expected.

Plan Year Ending				
December 31, 2023		Expected		Actual
Decrements				
Terminations				39
less: Rehires		00.5		17
Terminations (net of rehires)		22.5		22
Active retirements		10.6		8
Active disabilities		1.7		-
Pre-retirement deaths		4.5		1
Post-retirement deaths		20.1		22
Monthly benefits of deceased retirees	\$	13,944	\$	11,636
Financial assumptions				
Rate of net investment return on actuarial value		7.50%		6.31%
Administrative expenses	\$	230,000	\$	240,671
Other demographic assumptions				
Average retirement age from active (new retirees)		60.5		60.9
Average retirement age from inactive (new retirees)	*	61.9		65.4
Average entry age (new entrants)		32.1		33.0
Hours worked per vested active		1,600		1,691
Hours worked per non-vested active		1,225		1,310
Total hours worked (valuation assumption)		450,850		514,322
Total hours worked (PPA certification assumption)		475,000		514,322
Unfunded liability (gain)/loss				
(Gain)/loss due to asset experience			\$	962,455
(Gain)/loss due to liability experience			•	1,428,645
Total (gain)/loss			\$	2,391,100
* Expected average based on the average for the total group of			_	·

Expected average based on the average for the total group of participants.

PLAN MATURITY

Measures of plan maturity can play a part in understanding risk and a plan's ability to recover from adverse experience

When a new pension plan is first established, its liabilities are typically limited to active plan participants. However, as people become vested and retire, a plan begins to develop liabilities attributable to nonactive participants (retirees and inactive vested participants). The process of adding nonactive liabilities (often referred to as "maturing")

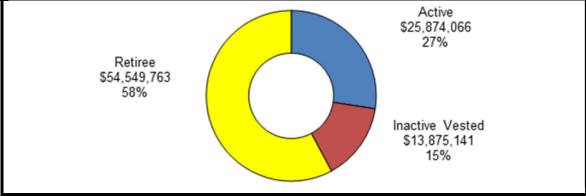
is a natural outgrowth of the operation of the plan. As a plan matures, its liabilities tend to balloon in relation to its contribution base, making it more difficult to correct for adverse outcomes by increasing contribution rates or reducing future benefit accruals.

Headcount ratios show the number of retired or inactive participants supported by each active participant. While there is no hard and fast rule, we generally consider a plan to be mature if each active is supporting more than 1 retiree or more than 2 nonactives. A negative net cash flow (benefits payments and expenses greater than contributions) can also be an indicator of a mature plan. A negative cash flow, when expressed as a percentage of assets, in excess of the assumed rate of return on fund assets may not be sustainable in the long term.

Actuarial Study as of January 1,	2024	2023	2022	2021	2020
Retiree/active headcount ratio	1.63	1.66	1.55	1.41	1.42
Nonactive/active headcount ratio	3.14	3.30	3.14	2.94	2.92
Cash flow Contrbenexp. (\$000) Percent of assets	(2,007)	(2,051)	(1,590)	(1,713)	(1,275)
	-2.47%	-2.77%	-1.88%	-2.24%	-1.79%

Liabilities of Actives, Retirees, and Inactive Vesteds

Total Liabilities: \$94,298,970



UNFUNDED VESTED BENEFITS/EMPLOYER WITHDRAWAL LIABILITY

An employer withdrawing during the coming year may have withdrawal liability

The following table shows a history of the plan's unfunded vested benefits (UVB) required to compute a specific employer withdrawal liability under the presumptive method. If all unfunded vested benefits since the inception of the

Multiemployer Pension Plan Amendments Act of 1980 (MPPAA) are zero (\$0) or less, there will be no withdrawal liability assessed to a withdrawing employer. Otherwise, an employer may be assessed withdrawal liability payments pursuant to MPPAA. The display does not reflect adjustments for prior employer withdrawals.

In accordance with IRC Section 432(e)(9)(A) and PBGC Technical Update 10-3, the impact of reducing adjustable benefits is reflected by adding the unamortized portion of the value of affected benefits (VAB) to the most recent year's unfunded vested benefits pool. An employer who is assessed withdrawal liability will be assessed a portion of the UVB and the VAB.

Presumptive Method (\$ 000)

December 31,		2023	2022	2021	2020	2019
Vested benefits inter	est	7.50%	7.50%	7.50%	7.75%	7.75%
Vested benefits less: Asset value* UVB		91,677 85,215 6,462	89,076 82,100 6,976	85,787 80,890 4,897	81,209 75,836 5,373	79,048 71,897 7,151
Unamortized VAB UVB + VAB		2,893 9,355	3,147 10,123	3,384 8,281	3,603 8,976	3,807 10,958
Assets* Vested Benefits**	100,000 - 90,000 - 70,000 - 60,000 - 40,000 - 20,000 - 10,000 - 0 - 0					

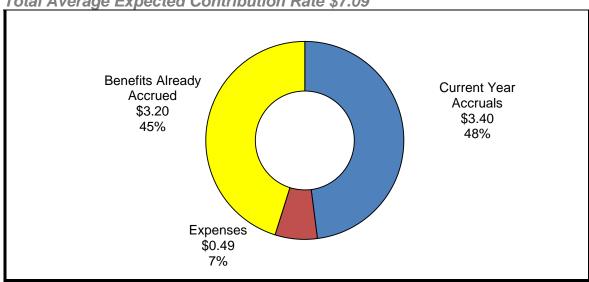
- * Actuarial value
- ** Includes VAB

CONTRIBUTION ALLOCATION

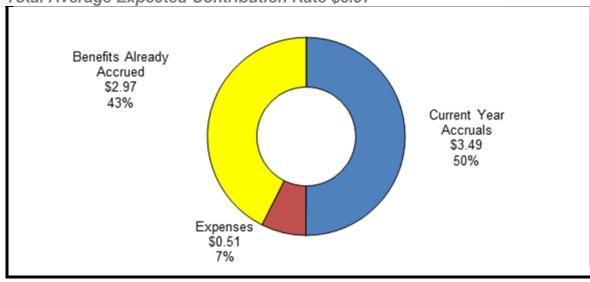
These graphs show how the contributions are being spent

The following allocation charts illustrate how the expected contribution rate for the coming plan year will be "spent" to pay for benefits being earned in the current year, plan expenses, and funding of past unfunded liabilities.

Contribution Allocation as of January 1, 2024 Total Average Expected Contribution Rate \$7.09



Contribution Allocation as of January 1, 2023 Total Average Expected Contribution Rate \$6.97



FUNDING STANDARD ACCOUNT PROJECTION

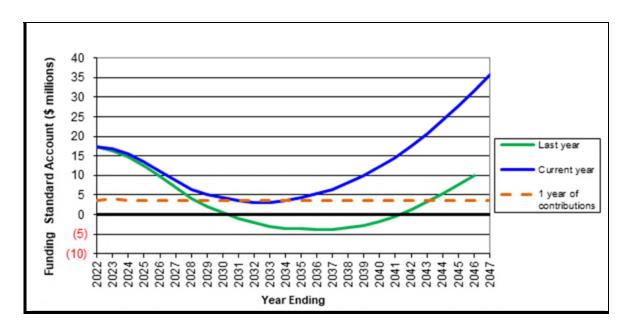
The funding standard account projection is a major driver of PPA status

The funding standard account (FSA) was established by ERISA as a means of determining compliance with minimum funding standards. The FSA is hypothetical in the sense that it does not represent actual assets held by a custodian.

Rather, a positive FSA balance (called a "credit balance") means that the plan has exceeded minimum funding standards on a cumulative basis, while a negative balance (called a "funding deficiency") means that the plan has fallen short of such standards.

Actuaries must project the plan's FSA each year in order to determine PPA status. If a funding deficiency is projected in a future year, the plan could be forced into yellow (endangered) or red (critical) status depending how far into the future the first projected funding deficiency is. The plan's FSA projection appears below. These projections are based on the assumptions summarized in the "Actuarial Assumptions used for Projections" section of Appendix B.

As a rule of thumb, UAS recommends in non-Critical status year that plans maintain a projected credit balance of at least one year's contributions (shown as an orange dotted line in the graph below) in each future year. Maintaining a "cushion" in the Funding Standard Account helps minimize the risk of a surprise funding deficiency at the end of a non-Critical status plan year. Such a deficiency could trigger an excise tax payable directly by employers. If the Plan is in Critical status at the start of the plan year, it is protected from these excise taxes so long as scheduled progress has been satisfied in at least one of the past three plan years.

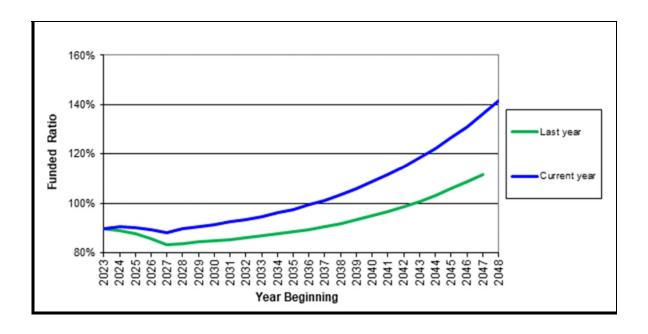


FUNDED RATIO PROJECTION

The plan's funded ratio is a major driver of PPA status

The funded ratio is defined as the actuarial value of plan assets divided by the plan's liabilities for accrued benefits. Along with the funding standard account projection, funded ratio is one of the two major drivers of PPA funded status. In order for a

plan to enter the green zone (also called "safe") the funded ratio must be at least 80%. An insolvency, which is the plan year when the plan would run out of money, occurs if the funded ratio is projected to be 0%. In order for a plan to enter critical and declining status, an insolvency needs to be projected within 20 plan years of the PPA certification (it may need to be within 15 years under certain conditions) and they must meet one of the initial critical tests. The projection of the funded ratio appears below. These projections are based on the assumptions summarized in the "Actuarial Assumptions used for Projections" section of Appendix B.



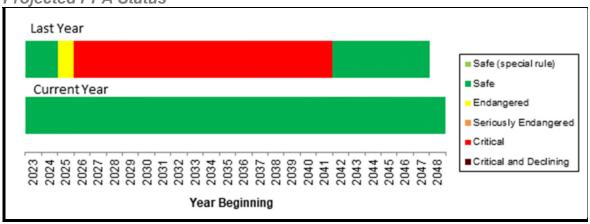
PPA STATUS PROJECTION

A plan that is not in green (i.e. safe) zone is subject to additional requirements and restrictions

The following graph shows the projection of PPA status based on the assumptions summarized in the "Actuarial Assumptions used for Projections" section of Appendix B. The projection is based on the current plan

and does not assume any changes in plan provisions or contribution rates, even if the plan moves to a worse PPA zone.





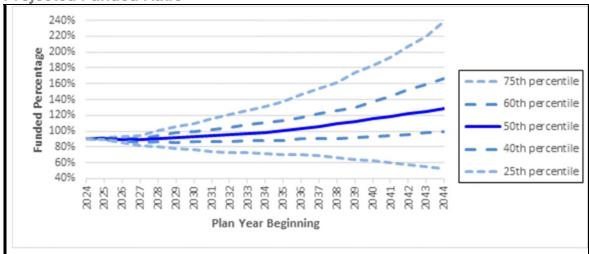
STOCHASTIC PROJECTIONS

Stochastic projections show the probability of being in a certain status or the projected percentiles of funded ratio.

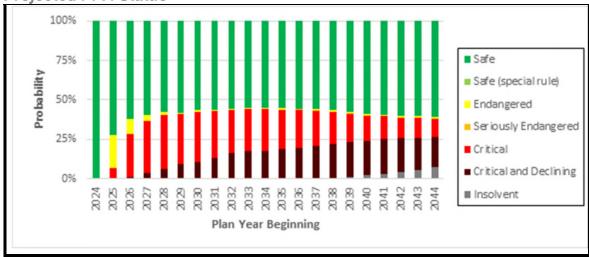
The stochastic projections below show the estimated probability of being in each status and the projected percentiles of funded ratios based on the assumptions summarized in the "Actuarial Assumptions used for Projections" section of Appendix B.

The projections are based on the current plan and do not assume any changes in plan provisions or contribution rates, even if the plan moves to a worse PPA zone. The distribution of returns is based on the mean and standard deviation of the Plan's investment portfolio. The mean for years 1-10 is based on short-term expectations, while the mean for years 11-20 is based on long-term expectations.









SENSITIVITY ANALYSIS AND SCENARIO/STRESS TESTING

Sensitivity analysis along with scenario and stress testing can help Trustees gauge a plan's key risks Sensitivity analysis studies the funding impact to the plan when a given assumption changes. Scenario testing studies the funding impact from actual experience for one or more possible outcomes. Stress testing studies the funding impact from poor experience. The sensitivity analysis

along with the scenario and stress testing below can be used to gauge a plan's key risks from investments and hours.

Currently, the plan is projected to be 100% funded by 2037, is projected to have no unfunded vested benefits in 2035, and is projected to have no funding deficiencies. In the table below we use these results to perform scenario and stress testing on the investment return assumption by assuming asset returns for the 2024 plan year of 16.70%, 7.25%, and -2.20%. The 7.25% return represents the assumed short-term return on assets over the next 10 years. The other two returns are 75% of one standard deviation from the expected return. Statistically, the return has about a 55% probability of being within this range for the year. We also perform sensitivity analysis on the future hours assumption by showing the effect of varying it by ±5%. We also show the minimum return in the 2024 plan year needed for the plan to project no deficiencies and the Safe or green zone in all future years.

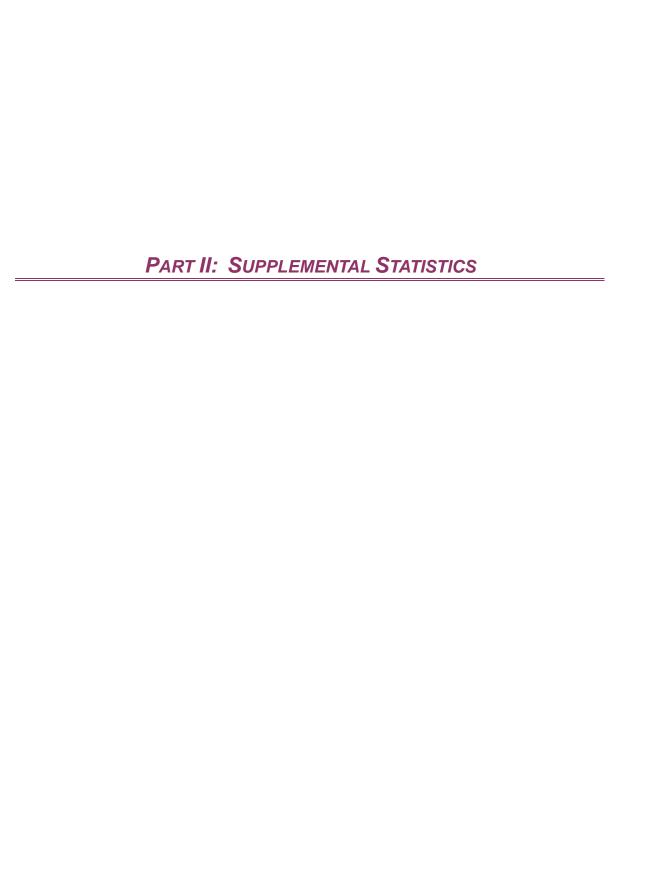
Key Funding Statistics (without rate increases) and Non-Credited Rate Increase Needed on June 1, 2025 to Project No Funding Deficiencies

Needed on June 1, 2025 to Project No Funding Deficiencies Scenario Testing: Minimum					
			Minimum		
				then 7.25%	2024
Assumptions	Funding Stats	tnrou	gh 2033 and		Return to
	r arraining oraco		thereafter	*	Project
		16.70%	7.25%	-2.20%	Green in All Years
F9/ Lower Hours	100% Funded:	2030	2038	2056	
5% Lower Hours	No UVB:	2032	2036	2054	60/
465,500 in 2024 and	Proj. Deficiency:	None	None	2030	6%
thereafter	Increase:	None	None	\$1.30	
Baseline Hours	100% Funded:	2029	2037	2050	
	No UVB:	2032	2035	2048	407
490,000 in 2024 and	Proj. Deficiency:	None	None	2030	4%
thereafter	Increase:	None	None	98¢	
50/ Higher Houre	100% Funded:	2029	2036	2047	
5% Higher Hours	No UVB:	2032	2034	2045	00/
514,500 in 2024 and	Proj. Deficiency:	None	None	2031	3%
thereafter	Increase:	None	None	69¢	

SENSITIVITY ANALYSIS AND SCENARIO/STRESS TESTING (CONT.)

More action can be taken in any funding result to provide an even bigger "cushion" against future losses. There are other possible solutions besides the provided contribution rate increase schedule shown above, including different lengths of contribution rate increases. Benefit reductions could also be added to lower or eliminate the necessary contribution rate increases.

All actions taken to eliminate projected funding deficiencies need to be in place until the credit balance projection is past its low point. This is about 10 years out. Asset gains or strong hours could speed up this timeframe.



PARTICIPANT DATA RECONCILIATION

The participant data reconciliation table below provides information as to how the plan's covered population changed since the prior actuarial study. Such factors as the number of participants retiring, withdrawing and returning to work have an impact on the actuarial position of the pension fund.

Participants		Inactive	Receiving	Total
Valued As	Active	Vested	Benefits	Valued
January 1, 2023	302	495	502	1,299
Change due to:				
New hire	46	-	-	46
Rehire	17	(12)	-	5
Termination	(39)	17	-	(22)
Disablement	-	-	-	-
Retirement	(8)	(19)	27	-
Death	-	(1)	(22)	(23)
Cash out	-	(1)	-	(1)
New beneficiary	-	3	11	14
Certain pd. expired	-	-	(1)	(1)
Data adjustment*	-	(2)	-	(2)
Net change	16	(15)	15	16
		, ,		
January 1, 2024	318	480	517	1,315

^{*} Inactive vested data adjustment: <u>Addition</u> of 1 inactive participant previously not vested but vested this year due to pro-rata reciprocity; <u>less</u> 3 deferred beneficiaries over age 74 and assumed to be deceased.

HOURS WORKED DURING PLAN YEAR

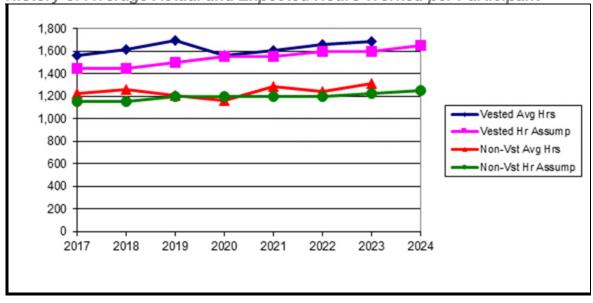
Hours Worked Per Participant

Plan Year Ending			Average
December 31, 2023	Number	Hours Worked	Hours Worked
Actives			
Vested	226	382,262	1,691
Non-vested, continuing	50	75,393	1,508
Non-vested, new entrant	42	45,111	1,074
Total active	318	502,766	1,581
Others	71	11,556	163
Total for plan year	389	514,322	1,322

History of Total Actual and Expected Hours Worked (Thousands)

Thotory of Total Motadi a	na Exposic	a meane m	ornoa (rin	Jacarrac)	
Plan Year Ending					
December 31,	2024	2023	2022	2021	2020
Expected hours valuation	482	451	461	477	474
Expected hours PPA cert	490	475	475	475	475
Actual hours worked	n/a	514	479	486	494





CONTRIBUTIONS MADE DURING PLAN YEAR

Employer Credited Contributions Reported in Employee Data

oyer Credited Contributions Reported in Employee Data					
Plan Year Ending		Credited			
December 31, 2023	Number	Co	ntributions		
ŕ			Reported		
	<u> </u>		•		
Actives					
Vested	226	\$	1,743,338		
Non-vested, continuing	50		326,236		
Non-vested, new entrant	42		192,930		
Total valued as active	318		2,262,504		
Others	71		71,027		
Total for plan year	389	\$	2,333,531		
Average credited hourly contributi	on rate	\$	4.54		

Comparison with Audited Employer Contributions

Employer credited contributions reported in data	\$ 2,333,531
Adjusted total employer contributions reported*	\$ 3,629,622
Total audited employer contributions**	\$ 3,962,843
Percent reported	92%

Adjusted to reflect the non-credited contributions of \$2.52 per hour worked.

History of Actual and Expected Total Contributions Received



Excludes employer withdrawal liability payments.

ACTIVE INFORMATION

Active Participants by Age and Service as of January 1, 2024

ACUVC	Active Farticipants by Age and Service as Or January 1, 2024										
	Years of Service										
Age	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+	Total
< 25	-	16	-	-	-	-	-	-	-	-	16
25-29	-	15	13	-	-	-	-	-	-	-	28
30-34	-	21	11	3	-	-	-	-	-	-	35
35-39	-	15	5	5	-	-	-	-	-	-	25
40-44	-	5	16	4	6	8	-	-	-	-	39
45-49	-	8	7	5	8	15	11	-	-	-	54
50-54	-	3	7	8	10	12	12	2	1	-	55
55-59	-	4	4	6	12	7	7	7	2	-	49
60-64	-	1	-	1	2	4	4	-	-	-	12
65-69	-	1	-	-	-	1	-	-	-	-	2
70+	-	1	-	-	-	-	-	-	-	-	1
Totals	-	90	63	32	38	47	34	9	3	-	316
Unrecord	ded										
DOB	-	2	-	-	-	-	-	-	-	-	2
Total Active											
Lives	-	92	63	32	38	47	34	9	3	-	318

INACTIVE VESTED INFORMATION

Inactive Vested Participants by Age as of January 1, 2024

mactive vested Participants by Age as of January 1, 2024									
		Estimated Monthly							
		Deferred Vested							
Age Group	Number	B	enefits*						
< 30	3	\$	645						
30-34	11		2,874						
35-39	11		2,112						
40-44	38		14,142						
45-49	72		23,718						
50-54	89		37,429						
55-59	105		41,568						
60-64	91		34,199						
65-69	39		8,530						
70+	20		2,991						
Totals	479		168,208						
Unrecorded birth date	<u> </u>		45						
Total inactive vested lives	480	\$	168,253						

^{*} Amount payable at assumed retirement age as used in the valuation process.

RETIREE INFORMATION

Benefits Being Paid by Form of Payment as of January 1, 2024

Deficites Defing I are	by relini	<i></i>	aymone ao	01	Jamaan	'''			
			Mon	thly	/ Benefi	ts E	Being Pa	aid	
Form of Payment	Number	Total			Average Smallest		nallest	L	.argest
Life only*	190	\$	160,559	\$	845	\$	31	\$	4,305
Joint & survivor	197		256,823		1,304		26		5,371
Disability	22		23,480		1,067		102		1,808
Beneficiaries	108		52,710		488		21		3,141
Totals	517	\$	493,572	\$	955	\$	21	\$	5,371

Retirees by Age and Form of Payment as of January 1, 2024

Netirees by Age and Form of Fayment as of January 1, 2024									
	Form of Benefits Being Paid								
Age	Life	Joint &							
Group	Only*	Survivor	Disability	Beneficiaries	Total				
< 40	-	-	-	1	1				
40-44	-	-	-	1	1				
45-49	-	-	1	-	1				
50-54	-	-	1	1	2				
55-59	8	11	8	7	34				
60-64	29	25	11	5	70				
65-69	55	56	1	9	121				
70-74	32	31	-	22	85				
75-79	25	28	-	13	66				
80-84	23	24	-	20	67				
85-89	12	14	-	22	48				
90-94	5	7	-	7	19				
95+	1	1	-	-	2				
Totals	190	197	22	108	517				

Includes retirees receiving life and certain benefits.

RETIREE INFORMATION (CONT.)

Age of Participants Retired During Last 5 Plan Years (excludes beneficiaries and disability retirements)

Age at Retirement Plan Year Ending December 31, 2020 2019 <55 -	(excludes belle	encianes an	u uisability i	emements)		
<555	Age at		Plan Year	r Ending Dece	ember 31,	
55 - - 6 4 2 56 1 2 - - - 57 1 - - - 2 58 1 6 5 - 4 59 1 2 2 - 1 60 - 1 1 - - 61 2 2 2 - 1 62 4 2 4 4 4 63 2 1 - - 1 64 2 2 2 - - 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	Retirement	2023	2022	2021	2020	2019
55 - - 6 4 2 56 1 2 - - - 57 1 - - - 2 58 1 6 5 - 4 59 1 2 2 - 1 60 - 1 1 - - 61 2 2 2 - 1 62 4 2 4 4 4 63 2 1 - - 1 64 2 2 2 - - 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19						
56 1 2 - - - 57 1 - - - 2 58 1 6 5 - 4 59 1 2 2 - 1 60 - 1 1 - - 61 2 2 2 - - 1 62 4 2 4 4 4 63 2 1 - - 1 64 2 2 2 - - 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	< 55	-	-	-	-	-
57 1 - - 2 58 1 6 5 - 4 59 1 2 2 - 1 60 - 1 1 - - 61 2 2 2 - - 1 62 4 2 4 4 4 63 2 1 - - 1 64 2 2 2 - - 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	55	-	-	6	4	2
58 1 6 5 - 4 59 1 2 2 - 1 60 - 1 1 - - 61 2 2 - - 1 62 4 2 4 4 4 63 2 1 - - 1 64 2 2 2 - - 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	56	1	2	-	-	-
59 1 2 2 - 1 60 - 1 1 - - 61 2 2 - - 1 62 4 2 4 4 4 63 2 1 - - 1 64 2 2 2 - - 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19		1	-	-	-	2
60 - 1 1 1 61 2 2 2 - 1 1 62 4 4 4 4 63 2 1 1 1 1 64 2 2 2 2 1 65 6 3 6 1 3 66+ 7 3 4 1 1 1 Totals 27 24 30 10 19	58	1	6	5	-	4
61 2 2 1 62 4 2 4 4 4 63 2 1 1 64 2 2 2 2 65 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	59	1	2	2	-	1
62 4 2 4 4 4 63 2 1 - - 1 64 2 2 2 - - 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	60	-	1	1	-	-
63 2 1 1 64 2 2 2 2 65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	61	2	2	-	-	1
64 2 2 2 65 6 3 6 1 3 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2	4	4	4
65 6 3 6 1 3 66+ 7 3 4 1 1 Totals 27 24 30 10 19	63	2	1	-	-	1
66+ 7 3 4 1 1 Totals 27 24 30 10 19 Average	64	2		2	-	-
Totals 27 24 30 10 19 Average	65	6		6	1	3
Average	66+	7	3	4	1	1
	Totals	27	24	30	10	19
I retirement age 64.1 61.7 61.4 60.2 61.0						
10.11 01.1 00.2 01.10	retirement age	64.1	61.7	61.4	60.2	61.0



MARKET AND ACTUARIAL FUND VALUES

Asset information extracted from the fund's financial statements audited by Benda, Grace, Stulz & Company, P.C.

Market/Actuarial Value of Fund Investments

Fund Investments as of December 31,		2023		2022		2021
as of December 31,		2023		2022		2021
Invested assets						
Common stock	\$	_	\$	1,928,074	\$	2,212,383
Common collective trusts	*	38,582,624	*	32,562,112	*	39,947,339
Hedge fund of funds		1,358,103		2,020,849		2,637,905
Mutual funds		14,609,800		11,102,587		15,784,849
Real estate funds		6,877,170		9,104,212		8,681,061
Limited partnership		15,968,239		15,140,455		14,048,951
Cash		972,235		805,924		802,613
Other		21,065		21,860		24,250
		78,389,236		72,686,073		84,139,351
Net receivables*		2,804,229		1,305,853		205,478
Market value	\$	81,193,465	\$	73,991,926	\$	84,344,829
Fund assets - Actuarial value						
	φ	04 402 465	Φ	72 004 026	φ	04 244 020
Market value less: Deferred investment	\$	81,193,465	\$	73,991,926	\$	84,344,829
gains and (losses)		(4,021,835)		(8,108,235)		3,455,282
Actuarial value	\$	85,215,300	\$	82,100,161	\$	80,889,547
Actualiai value	Ψ	05,215,500	Ψ	02,100,101	Ψ	00,000,047
Actuarial value as a						
percentage of market value		104.95%		110.96%		95.90%

^{*} Equals receivables, less any liabilities

FLOW OF FUNDS

Asset information extracted from the fund's financial statements audited by Benda, Grace, Stulz & Company, P.C.

Market value at beginning of plan year \$ 73,991,926 \$ 84,344,829 \$ 76,373,720 Additions Employer contributions Net investment income* 4,007,168 3,515,730 3,690,228 Net investment income* 9,206,279 (8,302,584) 9,559,339 Other income 2,180 561 1,450 13,215,627 (4,786,293) 13,251,017 Deductions Benefits paid 5,773,417 5,342,208 5,054,305 Net expenses* 240,671 224,402 225,603 Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return 0n actuarial value 12.61% -9.96% 12.65% On actuarial value 6.31% 4.08% 8.85%	Plan Year Ending December 31,		2023		2022		2021
Additions Employer contributions Net investment income* Other income Benefits paid Net expenses* Adjustment Market value at end of plan year Plan year Statimated net investment return On market value Additions 4,007,168 3,515,730 3,690,228 3,515,730 3,690,228 3,690,228 3,515,730 3,690,228 3,690,229 3,690,220 3,690,20							
Additions	9	\$	73 991 926	\$	84 344 829	\$	76 373 720
Employer contributions 4,007,168 3,515,730 3,690,228 Net investment income* 9,206,279 (8,302,584) 9,559,339 Other income 2,180 561 1,450 13,215,627 (4,786,293) 13,251,017 Deductions Benefits paid 5,773,417 5,342,208 5,054,305 Net expenses* 240,671 224,402 225,603 Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%	plan your	Ψ	70,001,020	Ψ	01,011,020	Ψ	70,070,720
Net investment income* 9,206,279 (8,302,584) 9,559,339 Other income 2,180 561 1,450 13,215,627 (4,786,293) 13,251,017 Deductions Benefits paid Net expenses* 5,773,417 5,342,208 5,054,305 Net expenses* 240,671 224,402 225,603 Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp.							
Other income 2,180 561 1,450 13,215,627 (4,786,293) 13,251,017 Deductions Benefits paid Net expenses* 5,773,417 5,342,208 5,054,305 Net expenses* 240,671 224,402 225,603 Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. Percent of assets (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%			· ·				, ,
13,215,627			, ,		• • • • • • • • • • • • • • • • • • • •		·
Deductions Benefits paid 5,773,417 5,342,208 5,054,305 Net expenses* 240,671 224,402 225,603 6,014,088 5,566,610 5,279,908 Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%	<u> </u>						
Benefits paid Net expenses* 5,773,417 240,671 5,342,208 224,402 5,054,305 225,603 Net increase (decrease) 6,014,088 5,566,610 5,279,908 Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. Percent of assets (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%			10,210,021		(4,700,200)		10,201,017
Net expenses* 240,671 224,402 225,603 6,014,088 5,566,610 5,279,908 Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. Percent of assets (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%							
Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. Percent of assets (2,006,920) (2,050,880) (1,589,680)	•		, ,		, ,		, ,
Net increase (decrease) 7,201,539 (10,352,903) 7,971,109 Adjustment - - - Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. Percent of assets (2,006,920) (2,050,880) (1,589,680)	Net expenses*						
Adjustment Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%			6,014,088		5,566,610		5,279,908
Market value at end of plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%	Net increase (decrease)		7,201,539		(10,352,903)		7,971,109
plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. Percent of assets (2,006,920) -2.47% (2,050,880) -2.77% (1,589,680) -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%	Adjustment		-		-		-
plan year \$ 81,193,465 \$ 73,991,926 \$ 84,344,829 Cash flow Contrbenexp. Percent of assets (2,006,920) -2.47% (2,050,880) -2.77% (1,589,680) -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%	Market value at end of						
Contrbenexp. (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%		\$	81,193,465	\$	73,991,926	\$	84,344,829
Contrbenexp. (2,006,920) (2,050,880) (1,589,680) Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%							
Percent of assets -2.47% -2.77% -1.88% Estimated net investment return On market value 12.61% -9.96% 12.65%			(0.000.000)		(0.050.000)		(4.500.000)
Estimated net investment return On market value 12.61% -9.96% 12.65%	•		,		• • • • • • • • • • • • • • • • • • • •		•
On market value 12.61% -9.96% 12.65%	reiteni di assets		-2.47%		-2.11%		-1.00%
On market value 12.61% -9.96% 12.65%	Estimated not investment retu	ırn					
		4111	12.61%		-9.96%		12.65%

^{*} Investment expenses have been offset against gross investment income.

INVESTMENT GAIN AND LOSS

Investment Gain or Loss Plan Year Ending December 31, 2023

Expected market value at end of plan year	
Market value at beginning of plan year	\$ 73,991,926
Employer contributions and non-investment income	4,009,348
Benefits and expenses paid	(6,014,088)
Expected investment income (at 7.50% rate of return)	5,474,217
	77,461,403
Actual market value at end of plan year	81,193,465
less: Expected market value	77,461,403
Investment gain or (loss)	\$ 3,732,062

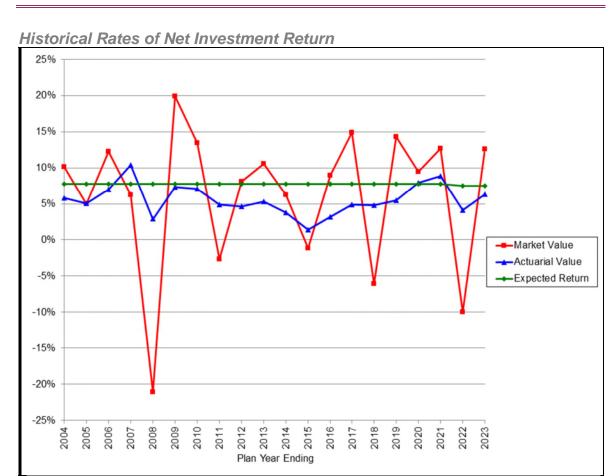
History of Gains and (Losses)

41141 (=4444)			
Plan Year Ending December 31,	Investment Gain or (Loss)	F	Amount Recognized This Year
2023	\$ 3,732,062	\$	746,412
2022	(14,551,559)		(2,910,312)
2021	3,701,920		740,384
2020	1,213,412		242,682
2019	4,132,474		826,495
Total	\$ (1,771,691)	\$	(354,339)

Deferred Investment Gains and (Losses)

Plan Year Ending	Amount of (Gair	n or (Loss) D)efe	erred as of D	ece	mber 31,
December 31,	2023		2024		2025		2026
2023	\$ 2,985,650	\$	2,239,237	\$	1,492,825	\$	746,412
2022	(8,730,935)		(5,820,624)		(2,910,312)		-
2021	1,480,768		740,384		-		-
2020	242,682		-		-		-
Totals	\$ (4,021,835)	\$	(2,841,003)	\$	(1,417,487)	\$	746,412

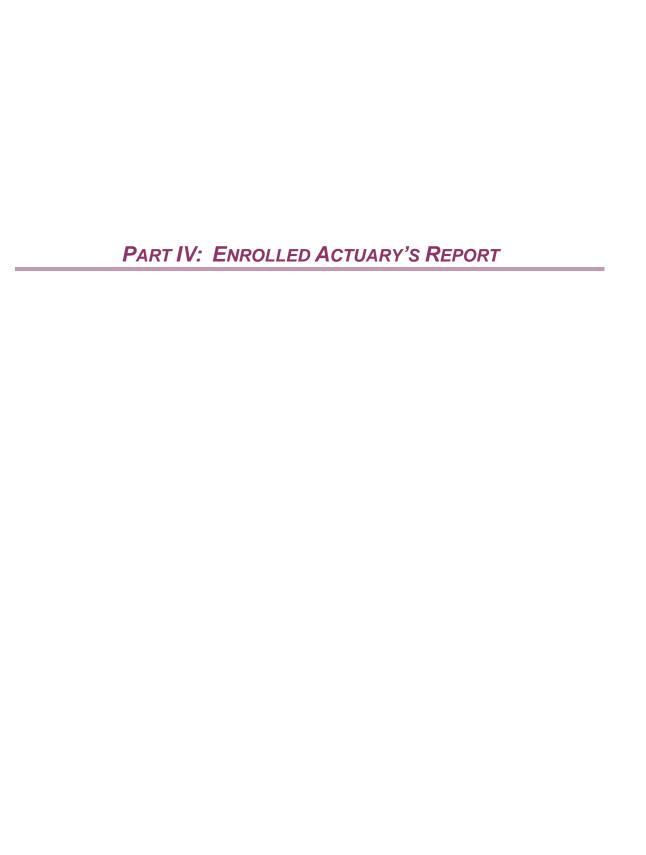
RATE OF RETURN ON FUND ASSETS



The following table shows average rates of return over various periods calculated on a geometric average basis. These statistics may not be appropriate for evaluating a Plan's rate of return assumption as such assumption is forward-looking whereas the statistics are historical. Furthermore, these statistics do <u>not</u> reflect the internal rate of return actually experienced by the Fund over these periods.

Average Rates of Net Investment Return (geometric average)

Average Nates of Net Investment Netari (geometric average)									
Return on M	larket Value	Return on Ad	ctuarial Value						
Period Ending	December 31,	Period Ending	December 31,						
2023 2022		2023	2022						
12.61%	-9.96%	6.31%	4.08%						
7.40%	3.58%	6.52%	6.21%						
5.84%	5.65%	5.04%	4.94%						
7.08%	4.57%	5.31%	5.08%						
5.71%	6.11%	5.53%	5.50%						
	12.61% 7.40% 5.84% 7.08%	12.61% -9.96% 7.40% 3.58% 5.84% 5.65% 7.08% 4.57%	Period Ending December 31, Period Ending 2023 2023 2022 2023 12.61% -9.96% 6.31% 7.40% 3.58% 6.52% 5.84% 5.65% 5.04% 7.08% 4.57% 5.31%						



NORMAL COST/ACTUARIAL LIABILITY

Normal Cost as of January 1,		2024	2023
Benefit accruals Anticipated administrative expenses (beg. of ye	\$ ar)	1,578,224 227,229	\$ 1,514,469 221,687
Total normal cost	\$	1,805,453	\$ 1,736,156
Unfunded Actuarial Liability as of Janua	ry 1,	2024	2023
Actuarial liability Participants currently receiving benefits Inactive vested participants Active participants	\$	54,549,763 13,875,141 25,874,066	\$ 52,816,829 14,373,795 24,243,781
lose: Fund assets (actuarial value)		94,298,970 85,215,300	91,434,405
less: Fund assets (actuarial value) Unfunded actuarial liability	\$		\$ 9,334,244

1,340,426

9,083,670

\$

ACTUARIAL LIABILITY RECONCILIATION/PROJECTION

Reconciliation of Unfunded Actuarial Liability	
Expected unfunded actuarial liability as of December 31, 2023	
Unfunded actuarial liability as of January 1, 2023	\$ 9,334,244
Normal cost (including expenses)	1,736,156
Actual contributions	(4,007,168)
Interest to end of plan year	680,012
	7,743,244
Increase (decrease) due to:	
Experience (gain) or loss	2,391,100
Plan amendment	-
Change in actuarial assumptions	(1,050,674)
Change in actuarial method	-

Projection of Actuarial Liability to Year End

Unfunded actuarial liability as of January 1, 2024

Net increase (decrease)

Actuarial liability as of January 1, 2024	\$ 94,298,970
Expected increase (decrease) due to:	
Normal cost (excluding expenses)	1,578,224
Benefits paid	(6,737,392)
Interest on above	(134,285)
Interest on actuarial liability	7,072,423
Net expected increase (decrease)	1,778,970
Expected actuarial liability as of December 31, 2024	\$ 96,077,940

FUNDED RATIOS

Present Value of Accumulated Benefits/ Funded Ratios		
Actuarial Study as of January 1,	2024	2023
Present value of vested accumulated benefits Participants currently receiving benefits Inactive vested participants	\$ 54,549,763 13,755,556	\$ 52,816,829 14,255,842
Active participants Total	23,371,735 91,677,054	22,003,635 89,076,306
Nonvested accumulated benefits	2,621,916	2,358,099
Present value of all accumulated benefits	\$ 94,298,970	\$ 91,434,405
Market value of assets	\$ 81,193,465	\$ 73,991,926
Funded ratios (Market value) Vested benefits All accumulated benefits	88.6% 86.1%	83.1% 80.9%
Actuarial value of assets	\$ 85,215,300	\$ 82,100,161
Funded ratios (Actuarial value used for PPA) Vested benefits All accumulated benefits	93.0% 90.4%	92.2% 89.8%
Interest rate used to value benefits	7.50%	7.50%

FUNDING PERIOD

The funding period is the approximate number of years that would be required to completely fund the unfunded entry age normal actuarial liability if future plan experience occurs according to the assumptions. The funding period is an indicator of the long term financial soundness of the plan. Historically, funds often targeted a maximum funding period of up to 20 years. Today, asset losses are being paid off over a maximum of 15 years and are the primary driver for ERISA minimum funding. An ultimate target of no more than 10 years is recommended. A lower, more conservative funding period target can be chosen. As the funding period drops, the risk of having future funding issues also diminishes.

Funding Period Calculation Actuarial Study as of January 1,		2024		2023
Unfunded actuarial liability	\$	102 005 660	\$	00 605 451
Actuarial liability less: Fund assets (actuarial value)	Ф	102,005,660 85,215,300	Φ	98,685,451 82,100,161
		16,790,360		16,585,290
Funds available to amortize unfunded				
Anticipated contributions (beg. of yr.)		3,292,665		3,030,835
less: Normal cost (including expenses)		863,542		825,619
	\$	2,429,123	\$	2,205,216
Funding period (years)		10		11

CURRENT LIABILITY

Current Liability is determined in a manner similar to the value of accrued benefits, but using an interest rate assumption within an acceptable range determined by the IRS. The current liability is used in the determination of the maximum deductible employer contribution and full funding limit under the Internal Revenue Code. For plans in critical status, it may also be used to determine eligibility for financial assistance under the America Rescue Plan. This alternative measure of liabilities is also a "low default risk" measure. Such a measure could match a lower risk investment strategy, which would provide more benefit security if it can be adequately funded.

Current Liability as of January 1,		2024		2023
Martadawa (Pak 26)				
Vested current liability Participants currently receiving benefits	\$	81,663,514	\$	87,632,285
Inactive vested participants	Φ	26,355,237	φ	31,580,429
Active participants		49,691,008		55,071,011
		157,709,759		174,283,725
Nonvested current liability				
Inactive vested participants		204,280		236,253
Active participants		5,247,114 5,451,394		5,707,287 5,943,540
		5,451,394		5,945,540
Total current liability	\$	163,161,153	\$	180,227,265
Market value of assets	\$	81,193,465	\$	73,991,926
Current liability funded ratio (Market value)		49.8%		41.1%
, i i i i i i i i i i i i i i i i i i i				
Interest rate used for current liability		2.77%		2.19%
Projection of Current Liability to Year	End			
0 15 155 1 1 2001			•	100 101 150
Current liability as of January 1, 2024			\$	163,161,153
Expected increase (decrease) due to:				
Benefits accruing				3,756,132
Benefits paid				(6,737,392)
Interest on above				10,732
Interest on current liability				4,519,564
Net expected increase (decrease)				1,549,036
Expected current liability as of December 31,	2024		\$	164,710,189
Exposited deficit hability as of December 61,	2021		Ψ	101,710,100

FUNDING STANDARD ACCOUNT

Funding Standard Account Plan Year Ending December 31,		2024 (Projected)		2023 (Final)
Charges Prior year funding deficiency	\$	_	\$	_
Normal cost (including expenses)	Ψ	1,805,453	Ψ	1,736,156
Amortization charges (see Appendix C)		5,673,348		5,471,117
Interest on above		560,911		540,546
Total charges		8,039,712		7,747,819
Credits				
Prior year credit balance		16,843,868		17,369,133
Employer contributions		3,472,479		4,007,168
Amortization credits (see Appendix C)		1,750,196		1,639,472
Interest on above		1,524,772		1,575,914
ERISA full funding credit		-		-
Total credits		23,591,315		24,591,687
Credit balance (credits less charges)	\$	15,551,603	\$	16,843,868

FUNDING STANDARD ACCOUNT WITHOUT AMORTIZATION EXTENSION

The Funding Standard Account on the previous page has been developed using an amortization extension approved by the IRS under §412(e) or §431(d) of the Code. We are required to report the dollar difference between the minimum required contribution with extension and without extension on the Schedule MB.

Funding Standard Account Plan Year Ending December 31,	2024 (Projected)		2023 (Final)	
Charren		, ,	, , , ,	
Charges	φ		φ	
Prior year funding deficiency	\$		1 726 15	-
Normal cost (including expenses)		1,805,453	1,736,15	
Amortization charges (see Appendix C)		4,361,206	4,930,89	
Interest on above		462,498	500,02	27
Total charges		6,629,157	7,167,07	75
Credits				
Prior year credit balance		10,415,447	10,848,98	31
Employer contributions		3,472,479	4,007,16	38
Amortization credits (see Appendix C)		1,750,196	1,639,47	72
Interest on above		1,042,641	1,086,90) 1
ERISA full funding credit		-	, ,	-
Total credits		16,680,763	17,582,52	22
Credit balance (credits less charges)	\$	10,051,606	\$ 10,415,44	47

FULL FUNDING LIMIT

Projection of Assets for Full Funding Limit	Market Value	Actuarial Value
Asset value as of January 1, 2024	\$ 81,193,465 \$	85,215,300
Expected increase (decrease) due to: Investment income Benefits paid Expenses	5,828,017 (6,737,392) (235,750)	6,129,655 (6,737,392) (235,750)
Net expected increase (decrease)	(1,145,125)	(843,487)
Expected value as of December 31, 2024*	\$ 80,048,340 \$	84,371,813

^{*} Ignoring expected employer contributions (as required by regulation).

Full Funding Limit as of December 31, 2024	For Minimum Required	For Maximum Deductible
40 01 2000111301 01, 2027	Roganoa	Doddottolo
ERISA full funding limit (not less than 0)		
	\$ 96,077,940	\$ 96,077,940
less: Assets (lesser of market or actuarial)	80,048,340	80,048,340
plus: Credit balance (w/interest to year end)	18,107,158	n/a
	34,136,758	16,029,600
ERISA full funding limit without extension (not less	s than 0)	
Actuarial liability	96,077,940	n/a
less: Assets (lesser of market or actuarial)	80,048,340	n/a
plus: Credit bal. w/o ext. (w/int. to year end)	11,196,606	n/a
	27,226,206	n/a
Full funding limit override		
(not less than 0)		
90% of current liability	148,239,170	148,239,170
less: Assets (actuarial value)	84,371,813	84,371,813
	63,867,357	63,867,357
Full funding limit (greater of ERISA limit and full fu	•	
	63,867,357	\$ 63,867,357
Without amortization extension	\$ 63,867,357	n/a

MINIMUM REQUIRED CONTRIBUTION AND FULL FUNDING CREDIT

Minimum Required Contribution Plan Year Beginning January 1, 2024	Without Extension	With Extension
Minimum funding cost Normal cost (including expenses) Net amortization of unfunded liabilities	\$ 1,805,453 2,611,010	\$ 1,805,453 3,923,152
Interest to end of plan year	331,234 4,747,697	429,647 6,158,252
Full funding limit	63,867,357	63,867,357
Net charge to funding std. acct. (lesser of above) less: Credit balance with interest to year end	4,747,697 11,196,606	6,158,252 18,107,158
Minimum Required Contribution (not less than 0)	\$ -	\$ -
Effect of extension		\$ -
Full Funding Credit to Funding Standard Account Plan Year Ending December 31, 2024	Without Extension	With Extension
Full funding credit (not less than 0) Minimum funding cost (n.c., amort., int.) less: full funding limit	\$ 4,747,697 63,867,357	\$ 6,158,252 63,867,357
	\$ -	\$

MAXIMUM DEDUCTIBLE CONTRIBUTION

The maximum amount of tax-deductible employer contributions made to a pension plan is determined in accordance with Section 404(a) of the Internal Revenue Code. For a multiemployer pension plan, Section 413(b)(7) of the Internal Revenue Code and IRS Announcement 98-1 provide that, if <u>anticipated</u> employer contributions are less than the deductible limit for a plan year, then all employer contributions paid during the year are guaranteed to be deductible. If anticipated employer contributions exceed the deductible limit, the Trustees have two years from the close of the plan year in question to retroactively improve benefits to alleviate the problem.

Maximum Deductible Contribution Plan Year Beginning January 1, 2024

Preliminary deductible limit Normal cost (including expenses) 10-year limit adjustment (using "fresh start" alternative) Interest to end of plan year	\$ 1,805,453 1,231,035 227,737
	3,264,225
Full funding limit	63,867,357
Maximum deductible contribution override	
140% of vested current liability projected to December 31, 2024	222,889,856
less: Actuarial value of assets projected to December 31, 2024	 84,371,813
	138,518,043
Maximum deductible contribution*	\$ 138,518,043
Anticipated employer contributions	\$ 3,472,479
	\$ 138,518,04

Equals the lesser of the preliminary deductible limit and the full funding limit, but not less than the maximum deductible contribution override.

HISTORY OF UNFUNDED VESTED BENEFITS

Presumptive Method

Presumptive	e Wethod				
	Vested	Value of		Unfunded	Unamortized
December	Benefits	Vested		Vested	Portion of
31,	Interest Rate	Benefits	Asset Value*	Benefits	VAB
2004	7.75%	46,823,836	46,750,441	73,395	
2005	7.75%	49,771,921	48,751,674	1,020,247	
2006	7.75%	52,458,661	51,652,635	806,026	
2007	7.75%	54,442,221	56,252,948	(1,810,727)	
2008	7.75%	55,965,916	52,505,644	3,460,272	
2009	7.75%	58,437,048	59,619,259	(1,182,211)	
2010	7.75%	60,298,308	62,314,914	(2,016,606)	
2011	7.75%	62,119,705	63,493,973	(1,374,268)	
2012	7.75%	64,442,727	64,296,033	146,694	
2013	7.75%	66,810,445	65,246,057	1,564,388	
2014	7.75%	69,883,900	65,444,610	4,439,290	
2015	7.75%	71,846,693	64,749,401	7,097,292	
2016	7.75%	70,725,805	65,534,133	5,191,672	4,333,777
2017	7.75%	74,263,436	67,378,323	6,885,113	4,171,034
2018	7.75%	76,459,232	69,396,655	7,062,577	3,995,678
2019	7.75%	79,048,429	71,896,777	7,151,652	3,806,733
2020	7.75%	81,208,888	75,836,360	5,372,528	3,603,144
2021	7.50%	85,786,641	80,889,547	4,897,094	3,383,777
2022	7.50%	89,076,306	82,100,161	6,976,145	3,147,408
2023	7.50%	91,677,054	85,215,300	6,461,754	2,892,722

^{*} Actuarial value

TERMINATION BY MASS WITHDRAWAL

If all employers were to cease to have an obligation to contribute to the plan, the plan would be considered "terminated due to mass withdrawal." In this event, the Trustees would have the option of distributing plan assets in satisfaction of all plan liabilities through the purchase of annuities from insurance carriers or payment of lump sums. If assets are insufficient to cover liabilities, a special actuarial valuation pursuant to Section 4281 of ERISA would be performed as of the end of the plan year in which the mass withdrawal occurred. If the Section 4281 valuation indicates the value of nonforfeitable benefits exceeds the value of plan assets, employer withdrawal liability would be assessed.

The ERISA Section 4281 valuation described above uses required actuarial assumptions that are typically more conservative than those used for valuing an on-going plan. In order to illustrate the impact of the mass withdrawal assumptions, we performed an illustrative Section 4281 valuation as if mass withdrawal had occurred during the prior plan year. The value of assets used below is market value without any adjustments for outstanding employer withdrawal liability claims.

As required by regulation, interest rates of 5.06% for the first 20 years and 4.37% for each year thereafter and the GAM 94 Basic Mortality Table projected to 2033 were used.

Illustrative Section 4281 Valuation as of December 31, 2023

Value of nonforfeitable benefits	
Participants currently receiving benefits	\$ 68,995,047
Inactive vested participants	19,774,186
Active participants	39,164,298
Expenses (per Section 4281 of ERISA)	1,220,665
	129,154,196
less: Fund assets (market value)	81,193,465
Value of nonforfeitable benefits in excess of (less than) fund assets	\$ 47,960,731

ASC 960 INFORMATION

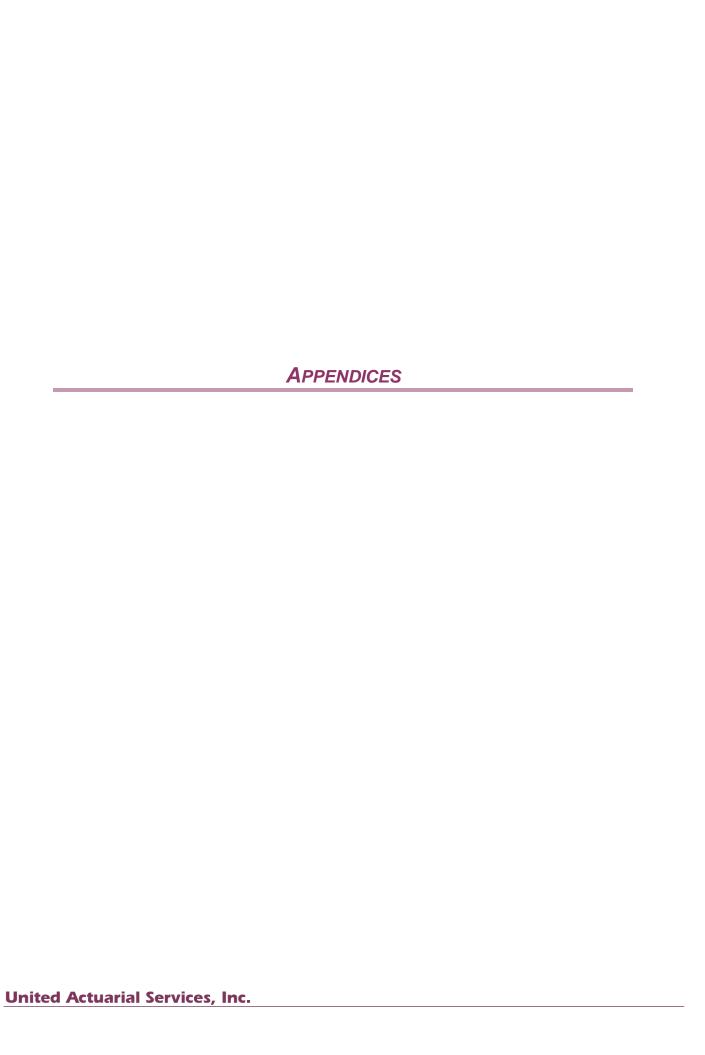
98,306,676

The following displays are intended to assist the fund's auditor in complying with Accounting Standards Codification 960. The results shown are not necessarily indicative of the plan's potential liability upon termination.

Present Value of Accumulated Benefits

Actuarial Study as of January 1,		2024		2023
Dreagnt value of vested accumulated benefits				
Present value of vested accumulated benefits Participants currently receiving benefits	\$	54,549,763	\$	52,816,829
Expenses on parts. currently rec. benefits	Φ	2,318,365	Φ	2,376,757
Other participants		37,127,291		36,259,477
Expenses on other participants		1,577,910		1,631,676
Expenses on other participants		95,573,329		93,084,739
Present value of nonvested accumulated bene	fits	33,373,323		33,004,733
Nonvested accumulated benefits	1113	2,621,916		2,358,099
Expenses on nonvested benefits		111,431		106,114
Experience on Heritocia benefite		2,733,347		2,464,213
Present value of all accumulated benefits	\$	98,306,676	\$	95,548,952
Market value of plan assets	\$	81,193,465	\$	73,991,926
Interest rate used to value benefits		7.50%		7.50%
Changes in Present Value of Accumulat	ted Be	enefits		
Present value of accumulated benefits as of Ja			\$	95,548,952
Increase (decrease) due to:				
Plan amendment				-
Change in actuarial assumptions				(1,333,702)
Benefits accumulated and experience gain	or loss			2,939,343
Interest due to decrease in discount period				7,166,171
Benefits paid				(5,773,417)
Operational expenses paid				(240,671)
Net increase (decrease)				2,757,724

Present value of accumulated benefits as of January 1, 2024



Origins/Purpose

The Outstate Michigan Trowel Trades Pension Plan was established January 1, 1972 as a result of a merger between the Pension Plans of the Outstate O.P.C.M.I.A. (which was established May 1, 1963) and the Michigan Highway Construction Industry Cement Masons' Pension Plan (which was established September 1, 1965).

The Pension Plan is managed under the provisions of the Labor Management Relations Act by a Board of Trustees consisting of an equal number of representatives from Labor and from Management.

The purpose of the Pension Plan is to provide Normal and Early Retirement Benefits, Joint and Survivor Benefits, Total and Permanent Disability Benefits, Vested Benefits and Death Benefits.

Employer Contributions

The Pension Plan is financed entirely by contributions from the employers as specified in the applicable Collective Bargaining Agreements. Following is a history of recent hourly contribution rates in effect for each local and craft.

Local	Craft	Hourly Contribution Rate*	Effective Date
Benton Harbor/St. Joe	D0	\$ 7.72	June 1, 2023
Big Rapids	E0	\$ 7.22	June 1, 2023
Flint	F0	\$ 7.72	June 1, 2023
Grand Rapids/Muskegon	H1	\$ 7.62	June 1, 2023
Highway Construction Zone 1	H0	\$ 6.55	June 1, 2023
Highway Construction Zone 2	H0	\$ 6.55	June 1, 2023
Kalamazoo/Battle Creek	10	\$ 7.67	June 1, 2023
Lansing/Jackson	J0	\$ 7.72	June 1, 2023
Lapeer	K0	\$ 7.72	June 1, 2023
Saginaw	MO	\$ 7.22	June 1, 2023
Traverse City	N0	\$ 7.22	June 1, 2023
Upper Peninsula	O0/P0	4.97\$ 8.27	June 1, 2023
Southwest	P0	\$ 8.17	June 1, 2023
Lansing/Jackson	P0	\$ 8.27	June 1, 2023
Flint	P0	\$ 8.62	June 1, 2023
Saginaw/Bay City	P0	\$ 8.27	June 1, 2023

^{*} These rates include \$2.62 of non-credited contribution.

Reciprocity

The Trustees have entered into Money Follows the Man Reciprocity Agreements with the Trustees of several other Pension Plans. The Trustees have also entered into a Pro-Rata Reciprocity Agreement with the Operative Plasterers' and Cement Masons International Association of the United States and Canada, the Michigan BAC Pension Plan, and the Michigan Laborers' Pension Plan.

SUMMARY OF PLAN PROVISIONS

Plan year The 12-month period beginning January 1 and ending the

following December 31.

Participation 12 consecutive month period with 500 hours.

Year of service Plan Year with at least 500 hours.

Break in service Plan Year with less than 500 hours.

Active participant A participant who has not become a retired, deceased or

disabled participant and who has not suffered a permanent break in service and who has accrued at least one year of service in either the current plan year at the time of

reference or in either of the two preceding plan years.

Inactive participant A participant who has not become a retired, deceased or disabled participant and who has not suffered a permanent

break in service and who has *not* accrued at least one year of service in either the current plan year at the time of

reference or in either of the two preceding plan years.

Normal retirement benefit

Eligibility Age 65 or 5th anniversary of participation, if later.

Monthly amount Accrued benefit as of January 1, 1976; plus 3.60% of

contributions for the period January 1, 1976 through December 31, 2003; plus 1.70% of contributions for the period January 1, 2004 through May 31, 2008; plus 1.70% of credited contributions thereafter. Payable for life.

No future service credit is given for less than 300 hours of work in plan years 1976-2010. No future service credit is given for less than 500 hours of work in plan years 2011 and after. This requirement does not apply during participant's initial or last year of participation before

retirement.

Early retirement benefit

Eligibility Age 55 and 10 years of service. Retired from active status

Monthly amount Normal, reduced by ½ of 1% for each month under age 62 (reduction is calculated from age 58 if participant has 25 or

more years of service). Payable for life.

SUMMARY OF PLAN PROVISIONS (CONT.)

Total and	permanent
disability	benefit

Eligibility

Disabled while active.

Monthly amount

10 + years of service: 75% of normal payable until the earlier of age 65, recovery or death. Normal at age 65.

or

Single sum amount

Less than 10 years of service: Greater of 75% of contributions for which participant received any special or future service credit or the single sum actuarial equivalent of the basic vested benefit.

Vested benefit

Eligibility

Terminated. 5 years of service.

Monthly amount

Deferred normal or early, if eligible. Payable for life.

Vested early benefit

Eligibility

Terminated. 10 years of service.

Monthly amount

Normal reduced by an actuarial equivalent factor for each month under age 65.

Optional forms of payment

- Joint and 50% survivor (with popup)*
- Joint and 75% survivor (with popup)*
- Joint and 100% survivor (with popup)*
- Life with 10 years guaranteed

* Effective June 1, 2016, inactive vested participants who retire will no longer receive the "pop up" feature.

Pre-retirement single sum death benefit

Eligibility

Death of active, disabled, or inactive vested participant who is ineligible for surviving spouse benefit and who has not yet received any retirement benefits.

Single sum amount

75% of contributions payable to beneficiary of active or disabled participant. 50% of contributions payable to beneficiary of inactive vested participant.

SUMMARY OF PLAN PROVISIONS (CONT.)

Pre-retirement surviving spouse benefit

Eligibility Death of vested participant with eligible spouse.

Monthly amount 75% of participant's joint and 75% survivor benefit (50% of

participant's joint and 50% survivor benefit for inactive vested participants). Payable to spouse for life beginning at earliest retirement age of participant. Spouse may elect

single sum death benefit.

Post-retirement death benefit

Eligibility Death of participant receiving normal, early or vested

benefits. Not eligible if receiving joint and survivor.

Single sum amount Pre-retirement single sum death less benefits paid to

participant. Payable to beneficiary.

HISTORICAL PLAN MODIFICATIONS

Special and future service credit/Retiree increase

Effective date January 1, 1998

Adoption date August 18, 1997

Provisions The special and future service credit was increased from

3.30% to 3.45% and the lives receiving benefits received

a 41/2% increase.

Vesting eligibility

Effective date January 1, 1998

Adoption date August 18, 1997

Provisions Eligibility for vesting changed from a 5/10 year graded

scale to 100% after 5 years of vesting service for active participants who earn at least one hour of service on or

after January 1, 1998.

Special and future service credit/Retiree increase

Effective date January 1, 1999

Adoption date May 6, 1998

Provisions The special and future service credit was increased from

3.45% to 3.55% and the lives receiving benefits received

a 3% increase.

Special and future service credit/Retiree increase

Effective date January 1, 2000

Adoption date January 20, 2000

Provisions The special and future service credit was increased from

3.55% to 3.60% and the lives receiving benefits received

a 2% increase.

HISTORICAL PLAN MODIFICATIONS (CONT.)

Early retirement benefit

Effective date January 1, 2000

Adoption date January 20, 2000

Provisions The early retirement benefit was improved by changing the

plan so that the early retirement reduction factor is calculated from age 60 if the participant has 25 or more years of service. If the participant does not meet the 25-year requirement, the reduction factor is calculated from

age 62.

New optional forms

Effective date January 1, 2000

Adoption date | January 20, 2000

Provisions | Joint and 75% survivor, joint and 100% survivor and life

with 10-years certain annuities were added as optional

forms of payment under the plan.

Early retirement benefit

Effective date January 1, 2001

Adoption date January 23, 2001

Provisions The early retirement benefit was improved by changing the

plan so that the early retirement reduction factor is calculated from age 58 if the participant has 25 or more years of service. If the participant does not meet the 25-year requirement, the reduction factor is calculated from

age 62.

Special and future service credit/Retiree increase

Effective date January 1, 2004

Adoption date December 20, 2002

Provisions The special and future service credit was changed from

3.60% to 1.70% for accruals on and after January 1, 2004.

HISTORICAL PLAN MODIFICATIONS (CONT.)

Pre-retirement surviving spouse benefit

Effective date January 1, 2007

Adoption date June 12, 2008

Provisions The Plan's Qualified Pre-Retirement Survivor Annuity

Benefit (QPSA) was increased from 50% to 75%. Further,

the age reduction has been eliminated.

Disability benefit

Effective date January 1, 2011

Adoption date October 27, 2010

Provisions Disability benefits retroactive to the date of disablement

have been eliminated. The disability benefit has also been lowered from 100% to 75% of the participant's accrued benefit, for disabilities beginning on or after January 1,

2011.

Benefit accrual and

service year

Effective date January 1, 2011

Adoption date October 27, 2010

Provisions The hours requirement for a year of service and benefit

accrual was increased from 300 to 500 hours.

Early Retirement Reduction Factor

Effective date June 1, 2016

Adoption date | April 18, 2016

Provisions For inactive participants retiring on or after June 1, 2016,

the early retirement factor was changed from ½ of 1% for each month before age 62 to an actuarial equivalent factor

for each month before age 65.

HISTORICAL PLAN MODIFICATIONS (CONT.)

Pre-Retirement Survivor

Annuity

Effective date June 1, 2016

Adoption date April 18, 2016

Provisions The 75% Pre-Retirement Survivor Annuity for surviving

spouses was replaced with a 50% Pre-Retirement survivor

annuity for inactive vested participants.

Single sum death benefit

Effective date June 1, 2016

Adoption date | April 18, 2016

Provisions The pre-retirement single sum death benefit payable

following the death of an inactive participant was

eliminated for inactive vested participants.

"Pop-Up" on Joint and

Survivor

Effective date June 1, 2016

Adoption date | April 18, 2016

Provisions The "Pop-Up" feature on Joint and Survivor Benefits was

eliminated for inactive vested participants.

Single sum death benefit

Effective date October 1, 2018

Adoption date December 5, 2018

Single sum amount A pre-retirement single sum death benefit payable

following the death of an inactive vested participant was added to the plan, payable immediately to the beneficiary

at 50% of contributions.

ACTUARIAL ASSUMPTIONS

The following assumptions are used throughout this report except as specifically noted herein.

Valuation date	January 1, 2024			
Interest rates ERISA rate of return used to value liabilities	7.50% per year net of investment expenses			
Unfunded vested benefits	7.50% per year net of investment expenses			
Current liability	2.77% (in accordance with Section 431(c)(6) of the Internal Revenue Code)			
Lump sum disability benefit	417(e) lump sum segment rates in effect 1 month before the valuation date. As of December 1, 2023, the segment rates were:			
	 5.01% for payments scheduled in the first five years out, 			
	• 5.13% for payments in the next 15 years out,			
	 5.15% for payments scheduled more than 20 years out. 			
Operational expenses Funding	\$235,750 in the 2024 plan year excluding investment			
. anamg	expenses, increasing 2.5% per year.			
ASC 960	A 4.25% load was applied to the accrued liabilities for 2024 (4.50% for 2023).			
Loading for pop-up feature	Liabilities for non-retired active participants' benefits to be paid after retirement increased 0.7%.			
	Retirees receiving a joint and survivor form of benefit have pop-up amounts provided by the administrator. If a pop-up amount has not been provided, their liability has been increased 1.8%.			

ACTUARIAL ASSUMPTIONS (CONT.)

Mortality

Assumed plan mortality

The PRI-2012 Blue Collar Mortality Tables for employees and healthy annuitants projected forward using the MP-2021 projection scale. For male annuitants, a 110% multiplier was used. For female annuitants, a 105% multiplier was used.

Current liability

Separate annuitant and non-annuitant rates based on the RP-2000 Mortality Tables Report developed for males and females as prescribed by Section 431(c)(6) of the Internal Revenue Code.

Withdrawal

T-5 Turnover Table from The Actuary's Pension Handbook (less GAM 51 mortality) – specimen rates shown below. Assumed rate during second year of employment is 30%*, 25% during third year, and 10% during the fourth and fifth years.

	Withdrawal
<u>Age</u>	<u>Rate</u>
25	.0772
30	.0722
35	.0628
40	.0515
45	.0398
50	.0256
55	.0094

No withdrawal assumed after participant reaches early retirement age.

^{*} All newly reported participants are considered to have already worked their first year of employment.

ACTUARIAL ASSUMPTIONS (CONT.)

Disability

1964 OASDI Disability Table for males. Specimen rates shown below:

	Disability
<u>Age</u>	Rate
25	.0009
30	.0011
35	.0015
40	.0022
45	.0036
50	.0061
55	.0101
60	.0163

Future retirement rates Active lives

According to the following schedule:

	Retirement Rates:					
<u>Age</u>	<25 yrs. svc	25+ yrs. svc				
55-57	.03	.20				
58	.06	.45				
59-60	.06	.20				
61	.10	.50				
62-64	.40	.50				
65+	1.00	1.00				

Resulting in an average expected retirement age of 60.2.

Inactive vested lives

Age 55, or the earliest eligible retirement age if later.

Disabled lives

Disability benefit assumed payable until the earlier of age 65, recovery or death. Then normal retirement benefit commences.

Timing of decrements

Middle of year

Future hours worked

Vested lives Non-vested lives 1,650 hours per year, 0 after assumed retirement age 1,250 hours per year, 0 after assumed retirement age

Future hourly contribution rate

Individual's average credited rate contributed for the most recent plan year adjusted for any rate changes in the past year and for non-credited contributions. The credited rate cannot be lower than the lowest negotiated rate or higher than the highest negotiated rate.

ACTUARIAL ASSUMPTIONS (CONT.)

Age of participants with unrecorded birth dates

Based on average entry age of participants with recorded birth dates and same vesting status.

Marriage assumptions

80% assumed married with the male spouse 3 years older than his wife

Optional form assumption

All non-retired participants assumed to elect the life annuity with 2 years certain form of benefit.

Inactive vested lives over age 74

Continuing inactive vested participants age nearest 74 and older are assumed deceased and are not valued. Participants assumed deceased under age 74 prior to January 1, 2021 are still assumed to be deceased.

QDRO benefits

Benefits to alternate payee included with participant's benefit until payment commences

Section 415 limit assumptions

Dollar limit

\$275,000 per year

Assumed form of payment for those limited by Section 415

Qualified joint and 100% survivor annuity

Benefits not valued

None

Benefits vested

No death benefits are vested.

Disability benefits are considered vested only in relation to corresponding retirement benefit.

Early retirement subsidies are considered vested when participant reaches age 55 and has 10 years of vesting service.

RATIONALE FOR SELECTION OF ACTUARIAL ASSUMPTIONS

The non-prescribed actuarial assumptions were selected to provide a reasonable long term estimate of developing experience. The assumptions are reviewed annually, including a comparison to actual experience. The following describes our rationale for the selection of each non-prescribed assumption that has a significant effect on the valuation results.

ERISA rate of return used to value liabilities

Future rates of return were modeled based on the Plan's current investment policy asset allocation and composite, long-term capital market assumptions taken from Horizon Actuarial's 2024 survey of investment consultants.

Based on this analysis, we selected a final assumed rate of 7.50%, which we feel is reasonable. This rate may not be appropriate for other purposes such as settlement of liabilities.

Due to the special rules related to withdrawal liability for a construction industry plan and the nature of the building trades industry, we believe the valuation interest rate is also appropriate for withdrawal liability purposes.

Mortality

The PRI-2012 Blue Collar Mortality Tables for employees and healthy annuitants projected forward using the MP-2021 projection scale was chosen as the base table for this population. The blue collar table was chosen based on the industry of plan participants.

Finally, multipliers of 110% for males and 105% for females were applied in order to more closely match projected deaths to actual post-retirement death experience. The period of actual data studied to develop this multiplier was from January 1, 2019 to December 31, 2023 for this plan, blended with a study of deaths for larger plans in similar industries. Based on information from the CDC on COVID-19 deaths through April 20, 2024, this study was adjusted to reflect an ongoing expectation of slightly higher deaths due to COVID-19 by 1) including an increase in deaths due to COVID-19 for the study period prior to March 15, 2020 and 2) excluding the high increase in deaths due to COVID-19 for the study period March 15, 2020 to March 15, 2022.

Retirement

Actual rates of retirement by age were last studied for this plan for the period January 1, 2016 to December 31, 2020. The assumed future rates of retirement were selected based on the results of this study. No adjustments were deemed necessary at this time.

RATIONALE FOR SELECTION OF ACTUARIAL ASSUMPTIONS (CONT.)

Withdrawal Actual rates of withdrawal by age were last studied for this

plan for the period January 1, 2016 to December 31, 2020. The assumed future rates of withdrawal were selected based on the results of this study. No adjustments were deemed

necessary at this time.

Future hours worked Based on review of recent plan experience.

ACTUARIAL ASSUMPTIONS USED FOR PROJECTIONS

The assumptions used for the credit balance, funded ratio and PPA zone projections are the same as used throughout the report with the following exceptions.

Assumed return on fund assets	
Current year projections	7.25% for the first 10 years (1/1/2024-12/31/2033)* 7.50% thereafter
Prior year projections	7.25% for the first 10 years (1/1/2023-12/31/2032)* 7.50% thereafter * For PPA certification projections, the 7.25% short-term assumption is used for years prior to the certification date only; the 7.50% long-term assumption is used for all years following the certification date.
Expenses	
Current year projections	\$235,750 in the 2024 plan year excluding investment expenses, increasing 2.5% per year. Additional increases are reflected in 2031 to account for the scheduled PBGC premium rate increase to \$52 per participant.
Prior year projections	\$230,000 in the 2023 plan year excluding investment expenses, increasing 2.5% per year. Additional increases are reflected in 2031 to account for the scheduled PBGC premium rate increase to \$52 per participant.
Future total hours worked	
Current year projections	490,000 for the plan year ending 2024 and thereafter
Prior year projections	490,000 for the plan year ending 2023 and thereafter
Contribution rate increases	
Current year projections	None
Prior year projections	Remaining 10¢ of the 25¢ non-credited increase effective June 1, 2023
Plan changes since prior year	None

ACTUARIAL ASSUMPTIONS USED FOR PROJECTIONS (CONT.)

Open group projections

Current year projections

Projected normal costs and benefit payment amounts are adjusted using the open group percentage increases from the prior year.

Prior year projections

Stable population assumed with new entrants replacing active participants as they withdraw, retire or die. New entrants are based upon entry age of actual new entrants over the last 5 years.

Stochastic modeling

1000 trials. Future returns are modeled using an expected return of 8.19% for the first 10 years and 8.51% thereafter and a standard deviation of 12.65%, which is representative of the plan's investment portfolio. The preceding expected returns are one year values which are not representative of longer-term geometric average returns as considered when setting the ERISA return assumption.

ACTUARIAL METHODS

Funding method ERISA Funding

Traditional unit credit cost method, effective

January 1, 2015.

Funding period Individual entry age normal with costs spread as a level

dollar amount over service

Population valued

Actives Participants in the plan who accrued a year of service

during the preceding plan year and who had non-

reciprocity hours during the preceding plan year

Inactive vested Vested participants with no non-reciprocity hours during

the preceding plan year or vested participants who had

reciprocity hours during the preceding plan year

Retirees Participants and beneficiaries in pay status as of the

valuation date.

Asset valuation method

Actuarial value Smoothed market value with phase-in effective

January 1, 1999. Each year's gain (or loss) is spread over a period of 5 years. The actuarial value is limited to not less than 80% and not more than 120% of the actual

market value of assets in any plan year.

Unfunded vested

benefits

For the presumptive method, actuarial value, as described

above, is used

Effective date of

amortization extension

January 1, 2010

Appendix C - Minimum Funding Amortization Bases Outstate Michigan Trowel Trades Pension Plan January 1, 2024 Actuarial Valuation Bases Shown: With Extension

D :	0		0.1.1.1	Remaining Period		1/1/2024	1/1/2024
Date Established	Source of Change in Unfunded Liability	Original Amount	Original Period	Years	Months	Outstanding Balance	Amortization Payment
Charges							,
_	A management		45	4	0	24.000	24.000
1/1/1980	Amendment		45	1	0	21,908	21,908
1/1/1990	Amendment		35	1	0	85,903	85,903
1/1/1991	Assumption		35	2	0	94,649	49,035
1/1/1993	Amendment		35	4	0	152,829	42,446
1/1/1993	Assumption		35	4	0	59,551	16,540
1/1/1995	Assumption	535,520	35	6	0	187,093	37,079
1/1/1996	Assumption	1,210,310	35	7	0	483,505	84,917
1/1/1997	Amendment	318,428	35	8	0	142,304	22,600
1/1/1997	Assumption	83,931	35	8	0	37,504	5,957
1/1/1998	Amendment	892,619	35	9	0	438,967	64,014
1/1/1999	Amendment	807,784	35	10	0	431,365	58,460
1/1/1999	Assumption	2,846,312	35	10	0	1,519,899	205,980
1/1/2000	Assumption	763,910	35	11	0	438,269	55,731
1/1/2001	Amendment	1,524,278	35	12	0	931,374	112,005
1/1/2001	Assumption	55,139	35	12	0	33,684	4,051
1/1/2002	Assumptions	1,518,437	35	13	0	980,540	112,251
1/1/2003	Assumptions	299,355	35	14	0	203,046	22,250
1/1/2005	Experience Loss	1,612,524	20	1	0	134,138	134,138
1/1/2006	Experience Loss	2,125,905	20	2	0	350,874	181,777
1/1/2007	Experience Loss	1,832,215	20	3	0	448,223	160,334
1/1/2008	Assumptions	34,081	20	4	0	10,950	3,041
1/1/2009	Amendment	146,878	20	5	0	57,988	13,332
1/1/2009	Experience Loss	7,556,829	20	5	0	2,983,355	685,935
1/1/2012	Experience Loss	1,912,754	15	3	0	568,515	203,363
1/1/2013	Experience Loss	2,106,787	15	4	0	805,677	223,766
1/1/2014	Experience Loss	2,056,465	15	5	0	949,053	218,206
1/1/2015	Assumptions	1,449,529	15	6	0	775,351	153,661
1/1/2015	Experience Loss	3,402,303	15	6	0	1,819,885	360,667
1/1/2016	Experience Loss	4,002,646	15	7	0	2,413,710	423,916
1/1/2017	Assumptions	236,918	15	8	0	157,853	25,069
1/1/2017	Experience Loss	3,415,873	15	8	0	2,275,892	361,448
1/1/2018	Assumptions	940,061	15	9	0	681,517	99,386
1/1/2018	Experience Loss	2,272,247	15	9	0	1,647,314	240,227
1/1/2019	Amendment	19,336	15	10	0	15,073	2,042
1/1/2019	Experience Loss	1,807,282	15	10	0	1,408,700	190,909

Appendix C - Minimum Funding Amortization Bases Outstate Michigan Trowel Trades Pension Plan January 1, 2024 Actuarial Valuation Bases Shown: With Extension

Date	Source of Change in	Original Original Remaining Period		ng Period	1/1/2024 Outstanding	1/1/2024 Amortization	
Established	Unfunded Liability	Amount	Period	Years	Months	Balance	Payment
1/1/2020	Assumptions	523,298	15	11	0	434,357	55,233
1/1/2020	Experience Loss	1,625,413	15	11	0	1,349,144	171,558
1/1/2022	Assumptions	1,567,737	15	13	0	1,443,185	165,214
1/1/2023	Experience Loss	3,292,901	15	14	0	3,166,826	347,017
1/1/2024	Experience Loss	2,391,100	15	15	0	2,391,100	251,982
				Total Ch	arges:	32,531,070	5,673,348
Credits							
1/1/2010	Experience Gain	598,728	15	1	0	63,787	63,787
1/1/2011	Amendment	976,701	15	2	0	200,651	103,951
1/1/2011	Assumptions	197,776	15	2	0	40,627	21,047
1/1/2011	Experience Gain	602,507	15	2	0	123,773	64,123
1/1/2012	Assumptions	339,642	15	3	0	100,945	36,108
1/1/2015	Method	5,058,551	10	1	0	690,258	690,258
1/1/2016	Amendment	2,611,164	15	7	0	1,574,612	276,546
1/1/2016	Assumptions	4,940	15	7	0	2,980	524
1/1/2017	Amendment	2,009,662	15	8	0	1,338,979	212,651
1/1/2019	Assumptions	226,125	15	10	0	176,254	23,887
1/1/2021	Assumptions	329,485	15	12	0	288,951	34,749
1/1/2021	Experience Gain	585,443	15	12	0	513,420	61,743
1/1/2022	Experience Gain	475,388	15	13	0	437,621	50,098
1/1/2024	Assumptions	1,050,674	15	15	0	1,050,674	110,724
				Total C	redits:	6,603,532	1,750,196
				Net C	harges:	25,927,538	3,923,152
			Less	s Credit B	alance:	16,843,868	
		Les	ss Recond	ciliation B	alance:	0	
		Un	funded A	ctuarial L	iability:	9,083,670	

Appendix C - Minimum Funding Amortization Bases Outstate Michigan Trowel Trades Pension Plan January 1, 2024 Actuarial Valuation Bases Shown: Without Extension

Date Established	Source of Change in Unfunded Liability	Original Amount	Original Period	Remaini Years	ng Period Months	1/1/2024 Outstanding Balance	1/1/2024 Amortization Payment
Charges							
1/1/1995	Assumption	535,520	30	1	0	42,901	42,901
1/1/1996	Assumption	1,210,310	30	2	0	187,012	96,884
1/1/1997	Amendment	318,428	30	3	0	71,206	25,471
1/1/1997	Assumption	83,931	30	3	0	18,759	6,710
1/1/1998	Amendment	892,619	30	4	0	257,012	71,382
1/1/1999	Amendment	807,784	30	5	0	280,829	64,569
1/1/1999	Assumption	2,846,312	30	5	0	989,448	227,494
1/1/2000	Assumption	763,910	30	6	0	307,933	61,027
1/1/2001	Amendment	1,524,278	30	7	0	692,995	121,710
1/1/2001	Assumption	55,139	30	7	0	25,060	4,401
1/1/2002	Assumptions	1,518,437	30	8	0	762,747	121,136
1/1/2003	Assumptions	299,355	30	9	0	163,596	23,857
1/1/2012	Experience Loss	1,912,754	15	3	0	568,515	203,363
1/1/2013	Experience Loss	2,106,787	15	4	0	805,677	223,766
1/1/2014	Experience Loss	2,056,465	15	5	0	949,053	218,206
1/1/2015	Assumptions	1,449,529	15	6	0	775,351	153,661
1/1/2015	Experience Loss	3,402,303	15	6	0	1,819,885	360,667
1/1/2016	Experience Loss	4,002,646	15	7	0	2,413,710	423,916
1/1/2017	Assumptions	236,918	15	8	0	157,853	25,069
1/1/2017	Experience Loss	3,415,873	15	8	0	2,275,892	361,448
1/1/2018	Assumptions	940,061	15	9	0	681,517	99,386
1/1/2018	Experience Loss	2,272,246	15	9	0	1,647,313	240,227
1/1/2019	Amendment	19,336	15	10	0	15,073	2,042
1/1/2019	Experience Loss	1,807,282	15	10	0	1,408,700	190,909
1/1/2020	Assumptions	523,298	15	11	0	434,357	55,233
1/1/2020	Experience Loss	1,625,413	15	11	0	1,349,144	171,558
1/1/2022	Assumptions	1,567,737	15	13	0	1,443,185	165,214
1/1/2023	Experience Loss	3,292,901	15	14	0	3,166,826	347,017
1/1/2024	Experience Loss	2,391,100	15	15	0	2,391,100	251,982
				Total Ch	arges:	26,102,649	4,361,206

Appendix C - Minimum Funding Amortization Bases Outstate Michigan Trowel Trades Pension Plan January 1, 2024 Actuarial Valuation Bases Shown: Without Extension

Date Established	Source of Change in Unfunded Liability	Original Amount	Original Period	Remaini Years	ng Period Months	1/1/2024 Outstanding Balance	1/1/2024 Amortization Payment
Credits							
1/1/2010	Experience Gain	598,728	15	1	0	63,787	63,787
1/1/2011	Amendment	976,701	15	2	0	200,651	103,951
1/1/2011	Assumptions	197,776	15	2	0	40,627	21,047
1/1/2011	Experience Gain	602,507	15	2	0	123,773	64,123
1/1/2012	Assumptions	339,642	15	3	0	100,945	36,108
1/1/2015	Method	5,058,551	10	1	0	690,258	690,258
1/1/2016	Amendment	2,611,164	15	7	0	1,574,612	276,546
1/1/2016	Assumptions	4,940	15	7	0	2,980	524
1/1/2017	Amendment	2,009,662	15	8	0	1,338,979	212,651
1/1/2019	Assumptions	226,125	15	10	0	176,254	23,887
1/1/2021	Assumptions	329,485	15	12	0	288,951	34,749
1/1/2021	Experience Gain	585,443	15	12	0	513,420	61,743
1/1/2022	Experience Gain	475,388	15	13	0	437,621	50,098
1/1/2024	Assumptions	1,050,674	15	15	0	1,050,674	110,724
				Total C	redits:	6,603,532	1,750,196
				Net C	harges:	19,499,117	2,611,010
			Less	Credit B	alance:	10,415,447	
Less Reconciliation Balance:					alance:	0	
Unfunded Actuarial Liability:				iability:	9,083,670		

SUMMARY OF PPA AND MPRA RULES

Background

All multiemployer pension plans in effect on July 16, 2006 are required to engage an actuary to annually certify their status under the Pension Protection Act of 2006 ("PPA"). Such certification must be filed with the government by the 90th day of the plan year.

This Appendix D provides a high-level summary of some of the rules related to PPA, which were further modified in 2015 by the Multiemployer Pension Reform Act of 2014 ("MPRA"). Please seek advice from your actuary or Fund Counsel for more detailed information.

PPA Status Criteria

The table below summarizes the criteria for each PPA status. Projected deficiencies are calculated as of the <u>last day</u> of each plan year and are based on contribution rates codified in bargaining agreements and, if applicable, wage allocations.

PPA Status	Getting In	Getting Out				
Safe ("green zone")	A plan is safe if it is not described in any of the other statuses. Generally, a plan that is at least 80% funded and has no projected funding deficiencies in the current year or next 6 years is safe.	A plan leaves safe status when it is certified as being in another status				
Safe ("green zone") special rule	Beginning in 2015, a plan that would otherwise be endangered, but was safe for the prior year, remains safe if it is projected to return to safe within 10 years	A plan leaves safe status when it is certified as being in another status				
Endangered ("yellow zone")	 A plan is endangered if it is <u>not</u> in a worse status <u>and</u> it is described in one of the following: Funded percentage is less than 80%, or Projected funding deficiency in the current year or next 6 years. 	A plan leaves endangered status when it no longer meets the requirements to be classified as endangered or when it enters a worse status				
Seriously endangered ("orange zone")	 A plan is seriously endangered if it is not in a worse status and it meets both of the following: Funded percentage is less than 80%, and Projected funding deficiency in the current year or next 6 years. 	A plan leaves seriously endangered status when it no longer meets both of the requirements listed or when it enters a worse status				

SUMMARY OF PPA AND MPRA RULES (CONT.)

SUMMARY OF PPA AND MPRA RULES (CONT.)

PPA Status	Getting In	Getting Out
Critical and declining ("deep red zone")	 Beginning in 2015, a plan is in critical and declining status if: It satisfies one or more of the initial four critical status criteria on the previous page, and, It is projected to become insolvent within the next 15 years (20 years if the plan has a ratio of inactive participants to active participants that exceeds 2 to 1 or if the funded percentage of the plan is less than 80%) 	A plan leaves critical and declining when it no longer satisfies the criteria. Status cannot change to safe, endangered, or seriously endangered unless the plan also meets the critical status emergence rules (see above).

Restrictions for Non-Safe Zone Plans

The Trustees of a plan that is <u>not</u> in safe zone face a number of restrictions in plan improvements that can be adopted and bargaining agreements that can be accepted.

Period	Endangered/Critical Restrictions
Date of first certification through adoption of funding improvement/rehabilitation plan ("plan adoption period")	 No reduction in level of contributions for any participants No suspension of contributions No exclusion of new or younger employees No amendment that increases the <u>liabilities</u> of the plan by reason of any increase in benefits, change in accrual, or change in vesting unless required by law
After adoption of a funding improvement/rehabilitation plan until end of funding improvement/rehabilitation period	 Cannot be amended so as to be inconsistent with funding improvement/rehabilitation plan No amendment that increases benefits, including future accruals, unless actuary certifies as being paid for with contributions not contemplated in funding improvement/ rehabilitation plan and still expected to meet applicable benchmark after considering the amendment

Additionally, critical, and critical and declining status plans cannot pay benefits greater than the single life annuity once the initial red zone notice is sent unless the benefit is eligible for automatic cash-out.

Appendix D – Summary of Rules Under PPA, MPRA, and ARPA Outstate Michigan Trowel Trades Pension Plan January 1, 2024 Actuarial Valuation

SUMMARY OF PPA AND MPRA RULES (CONT.)

Employer Surcharges for Critical Status Plans

When a non-critical plan enters critical status, employers must pay the plan a surcharge equal to 5% of their bargained contributions (the amount increases to 10% after the end of the plan year). The surcharges cannot be used to accrue benefits. Surcharges will generally commence about 5 months into the initial critical plan year.

Once the Trustees have adopted a rehabilitation plan, each set of bargaining parties is asked to adopt one of the schedules contained in such rehabilitation plan. Surcharges cease to apply to contributions made under a CBA where the bargaining parties have adopted a schedule. If this can be accomplished within the first 5 months of the initial critical year, then surcharges can be avoided altogether.

Special Critical/Critical and Declining Status Tools

The Trustees of a plan that is in critical status have the ability (as the result of collective bargaining) to cut "adjustable benefits" that, for the most part, cannot be reduced under other circumstances. Adjustable benefits include early retirement subsidies, optional forms of payment, disability benefits, and death benefits. Normal retirement benefits are never adjustable benefits.

The Trustees of a critical and declining plan may apply to the Treasury Department for approval to suspend certain payments under MPRA (suspensions are benefit cuts that will be restored once they are no longer needed). The suspensions may affect even those participants who are already in pay status. However, certain protections apply to participants who are age 75 or older or are disabled. Furthermore, no one's benefit can be reduced below 110% of the amount guaranteed by the PBGC. While not officially repealed with ARPA (see below), benefit suspensions have effectively been eliminated for existing deeply troubled plans in favor of the special financial assistance program.

SUMMARY OF ARPA RULES

Overview

The American Rescue Plan Act (ARPA) was passed in March 2021 with an interim final rule in July, 2021 and a final rule in July, 2022. ARPA provides options for eligible multiemployer plans to receive special financial assistance and all multiemployer plans to elect funding relief. The PBGC premium will increase to \$52 in 2031 with inflationary increases afterward.

Special Financial Assistance

A multiemployer plan is eligible for the special financial assistance program if:

- The plan is in critical and declining status in any plan year beginning in 2020 through 2022 using 2020 certification assumptions;
- A suspension of benefits has been approved with respect to the plan under MPRA as
 of the date of the enactment of the law;
- The plan is certified to be in critical status, has a current liability funded percentage of less than 40%, and has a ratio of active to inactive participants which is less than two to three in any plan year beginning in 2020 through 2022; or
- The plan became insolvent after December 16, 2014, and has remained insolvent and has not been terminated as of the date of the enactment of the law.

An eligible plan must submit an application to the PBGC for special financial assistance by December 31, 2025. The PBGC gave priority consideration for special financial assistance to eligible plans that will become insolvent soon, have more than \$1 billion liability, or suspended benefits. Plans without priority consideration will have to enter a wait list until the PBGC reopens the portal for a limited number of applications.

The amount of special financial assistance to be provided by the PBGC shall be the amount required for the plan to pay all benefits due through the last day of the plan year ending in 2051 without any further reductions. This amount will be the best of three different calculations for plans with a MPRA suspension. For this determination, the actuary will use the assumptions from the plan's 2020 PPA certification except interest rate limits may apply. The special financial assistance will be paid by the PBGC in a single, lump sum payment as soon as practicable upon approval of the application and does not have to be paid back.

Several restrictions do apply for plans receiving special financial assistance including:

- Up to 33% of the special financial assistance can be invested in publicly traded equities or high yield bonds. The rest must be invested in investment-grade bonds;
- The plan will be deemed in critical status through the 2051 plan year end;
- Contribution decreases are not permitted unless it would lessen the risk of loss;
- For the first ten years, only future benefits can be improved if they are paid for with new contributions. Then, past or future increases can be made with PBGC approval if they do not create a projected insolvency;
- Use mass withdrawal interest for EWL for 11 years or when SFA runs out, if later; and
- A statement of compliance must be annually filed with the PBGC.

GLOSSARY OF COMMON PENSION TERMS

Benefits

Accrued Benefit: A benefit that an employee has earned (or accrued) through past participation in the plan. It is the amount payable at normal retirement age.

Why it matters: Under the law, Accrued Benefits generally may not be reduced by plan amendment (note that special rules allowing for limited reduction and/or suspension of accrued benefits apply to critical status, critical and declining status and insolvent plans).

Actuarial Equivalence: Given a set of actuarial assumptions, when two different sets of payment scenarios have an equal present value.

Early Retirement Reduction Factor: A retirement benefit that begins before normal retirement age may be reduced. The plan document defines the amount of the reduction by formula or a table of factors. This reduction may or may not be actuarially equivalent, but its present value can be no less than actuarially equivalent to the benefit payable at normal retirement age.

Benefit Crediting (Accrual) Rate: A general reference to the calculation of the amount of monthly retirement benefit earned per dollar contributed or per year or hour worked.

Assets

Market Value of Assets: This is the fair value of all assets in the fund on an accrued, not cash basis. The market value of assets matches the value in the plan audit.

Actuarial Value of Assets: The amount of assets recognized for actuarial valuation purposes. Recent changes in market value may be partially recognized (there are variations allowed on the exact recognition). Generally the actuarial value is limited to not be less than 80% or more than 120% of the market value.

Why it matters: Many funding calculations use this "smoothed" asset value method to lessen the impact of volatility in the market value of plan assets.

Assumed Rate of Return: Long term assumption of the rate of return on assets based upon the diversification mix of invested assets.

Why it matters: This assumption is used in calculating the present values discussed in the Liabilities section below. The Assumed Rate of Return has an inverse relationship with plan liabilities. In other words, a lower Assumed Rate of Return increases liabilities, while a higher Assumed Rate of Return decreases plan Liabilities.

GLOSSARY OF COMMON PENSION TERMS (CONT.)

Liabilities

Present Value of Accrued Benefits: The discounted value of benefit payments due in the future but based only on the current Accrued Benefits of each participant. The value is based on actuarial assumptions including an assumed rate of investment return.

Why it matters: This liability is one of the primary factors in determining a plan's annual PPA funded status (see Funded Ratio).

Present Value of Vested Benefits: The discounted value of Accrued Benefits that are considered vested (non-forfeitable). Benefits that are not vested include those of participants who have not satisfied the plan vesting requirement (usually five years of service). In addition under the law some death and temporary disability benefits are also considered non-vested regardless of service because they are not considered protected benefits.

Why it matters: This liability is the primary driver of a plan's Employer Withdrawal Liability.

Actuarial (Accrued) Liability: For inactive members this is the same as the Present Value of Accrued Benefits above. For active members this depends on the cost method selected by the actuary. Under the accrued benefit or traditional unit credit cost method this is also the same as the Present Value of Accrued Benefits. Under other cost methods (including most commonly entry age normal) this represents an alternate allocation of projected benefit cost over the working lifetime of active members. Under the entry age normal cost method, the active Actuarial Liability is larger than the Present Value of Accrued Benefits.

Unfunded Actuarial Liability: The Actuarial Liability less the Actuarial Value of Assets.

Current Liability: This is similar to the Present Value of Accrued Benefits, but uses a statutory, significantly lower, interest rate (equivalent to an expected rate of return on a bond only-type portfolio) and statutory mortality tables. The lower interest rate means that Current Liability tends to be significantly higher than the Present Value of Accrued Benefits. This number has very little impact on multiemployer plans.

Normal Cost: The present value of all benefits that are expected to accrue or to be earned under the plan during the plan year. The way in which a benefit is considered to be earned varies with the actuarial cost method.

Risk: The potential of future deviation of actual results from expectations derived from actuarial assumptions.

GLOSSARY OF COMMON PENSION TERMS (CONT.)

Funding

Funded Ratio (Funded Percentage): Actuarial Value of Assets divided by the Present Value of Accrued Benefits. This is one of two key measures used to determine a plan's annual PPA funded status. This may also be referred to as PPA Funded Ratio. This must be greater than 80% to avoid endangered status.

Credit Balance: The accumulated excess of actual contributions over legally required minimum contributions as maintained in the funding standard account. The funding standard account is maintained by the actuary in the valuation process and reported annually in schedule MB to the Form 5500 filing. A negative credit balance is known as an accumulated funding deficiency. Prior to PPA, an accumulated funding deficiency caused an immediate excise tax (waiver under PPA if certain conditions are met). After PPA, a current or projected funding deficiency is one of the key measures used in determining the annual PPA status. It can eventually trigger an excise tax levied on contributing employers.

Withdrawal Liability

Unfunded Vested Benefits (UVB): Present Value of Vested Benefits less the value of plan assets determined on either an actuarial or market value basis. The selection of asset measurement is part of the withdrawal liability method of the Plan.

Employer Withdrawal Liability (EWL): An employer that withdraws from a multiemployer plan is liable for its proportionate share of Unfunded Vested Benefits, determined as of the date of withdrawal.

Why it matters: If a contributing employer leaves the plan while it has Unfunded Vested Benefits liability, that employer's allocated share of Employer Withdrawal Liability is either assessed, as applicable, or reallocated among the plan's remaining active employers if the presumptive method is used. A construction employer withdrawing from a construction industry plan will not be assessed unless they continue performing work within the jurisdiction of the CBA or restart such work within a period of 5 years. Small amounts (under \$150,000) are generally reduced or eliminated pursuant to the "de minimis rule."