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Western States Office & Professional Employees Plan Actuarial Valuation

As of January 1, 2021

October 2021

We understand your plans.®

Table of Contents

			<u>Page</u>
Actuarial Cer	tification		1
Valuation Hig	ghlights		3
Section I		abilities	
Section II		erience	
Section III	Employer Cor	ntributions and Costs	12
Section IV	Withdrawal L	iability	14
Section V	Risk Assessm	ent	15
Section VI	Other Plan In	formation	21
Section VII	Appendices		22
	Appendix A	Actuarial Methods and Assumptions	23
	Appendix B	Summary of Principal Plan Provisions	27
	Appendix C	Participant Information	29
	Appendix D	Liability Experience	33
	Appendix E	Asset Information	34
	Appendix F	Historical Information	38
	Appendix G	Funding Standard Account (for Schedule MB)	46
	Appendix H	Additional Schedule MB Information	51
	Appendix I	Maximum Deductible Contribution	54
	Appendix J	Auditor Information (FASB ASC 960)	56
	Appendix K	Withdrawal Liability Information	
	Appendix L	Funding Standard Account (No Amortization Extension)	59

Actuarial Certification

October 14, 2021

Board of Trustees Western States Office & Professional Employees Plan

Dear Trustees:

Rael & Letson has prepared this report exclusively for the use of the Board of Trustees of the Western States Office & Professional Employees Plan ("Plan"). All supporting information pertaining to the findings presented in this report is described or contained within this report and the findings should not be relied upon for any other purpose than as stated herein. This report may only be provided to other parties in its entirety.

This report has been prepared as of January 1, 2021 to report on the health of the Plan, including reporting the:

- 1. Plan's funded status
- 2. Plan's funding requirements under the Employee Retirement Income Security Act of 1974 (ERISA)
- 3. Plan experience for the 2020 Plan Year
- 4. Unfunded vested benefits for withdrawal liability purposes
- 5. FASB ASC 960 required information for auditors
- 6. Information required for governmental agencies
- 7. Plan's risk assessment

We have relied on information supplied by the auditor with respect to contributions and assets and by the Plan Administrator with respect to participant data. We have not verified and customarily would not verify such information, but we have no reason to doubt its substantial accuracy. We have also relied on third party actuarial valuation software to generate the liabilities in this report. We have reviewed sample life calculations and have no reason to doubt the underlying valuation model or the results being generated by that model.

These results are applicable for the Plan Year ending December 31, 2021. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as: 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 (for instance, 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. Due to the limited scope of the assignment, we did not perform analysis of the potential range of such future measurements.

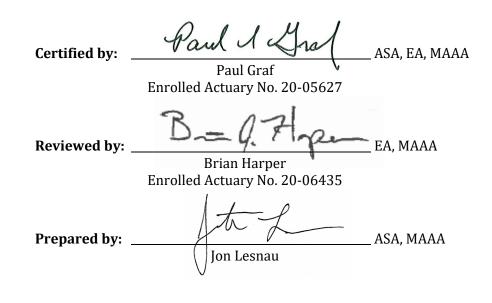
Actuarial Certification (Continued)

We are not aware of any events, subsequent to January 1, 2021, that would have a material effect on the actuarial findings presented in this report.

In preparation of this report and the actuarial findings contained herein, we certify that:

- We have completed this actuarial valuation of the Plan as of January 1, 2021 in accordance with generally accepted actuarial principles and practices, including Actuarial Standards of Practice (ASOP) Nos. 4, 23, 27, 35, 41, 44, 51 and 56.
- There has been no conflict of interest between any relevant parties; no findings for which we, the actuaries, do not assume responsibility; and no deviation from ASOP Nos. 4, 23, 27, 35, 41, 44, 51 and 56.
- 3. To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate and, in our opinion, the individual assumptions used: (a) are reasonably related to the experience of the Plan and to reasonable expectations; and (b) represent our best estimate of anticipated experience under the Plan.

We, Paul Graf and Brian Harper, are actuaries for Rael & Letson. We are members of the American Academy of Actuaries and each meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

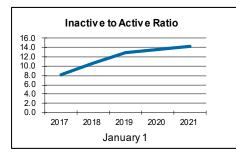


cc: Kim Gould Joe Reinhart, Esq. Alex Miller

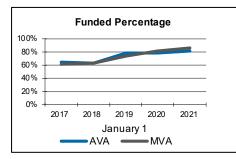
Valuation Highlights

A summary of the key valuation highlights for the Western States Office & Professional Employees Plan follows:

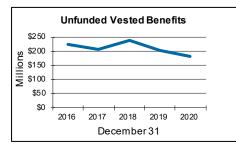
Participant Data



Financial Information



Unfunded Vested Benefits



		January 1, 2020	January 1, 2021	Change
Actives		491	465	(26)
Non-Vested Inactives ¹		233	224	(9)
Vested Inactives		2,636	2,558	(78)
In Pay Status²		4,093	4,112	19
Total Participants		7,453	7,359	(94)
Market Value of Assets (MVA)	\$	322,508,567	\$ 340,204,649	\$ 17,696,082
Return on MVA (Prior Year)		17.10 %	12.62 %	(4.48)%
Actuarial Value of Assets (AVA) ³	\$	313,036,709	\$ 319,474,447	\$ 6,437,738
Return on AVA (Prior Year)		5.96 %	9.29 %	3.33 %
Actuarial Accrued Liability⁴	\$	399,268,546	\$ 392,875,253	\$ (6,393,293)
Unfunded Accrued Liability (MVA)	76,759,979	52,670,604	(24,089,375)
Unfunded Accrued Liability (AVA))	86,231,837	73,400,806	(12,831,031)
MVA Funded Percentage		80.8 %	86.6 %	5.8 %
AVA Funded Percentage		78.4 %	81.3 %	2.9 %
Contributions (Prior Year)	\$	11,725,927	\$ 13,138,624	\$ 1,412,697
Benefit Payments (Prior Year)		33,574,714	33,368,397	(206,317)
Expenses (Prior Year)		1,497,212	1,414,873	(82,339)
Present Value of Vested Benefits	\$	529,286,121	\$ 520,942,237	\$ (8,343,884)
Unfunded Vested Benefits⁵		206,777,554	180,737,588	(26,039,966)
Zone Certification Status		Critical	Critical	
PPA Funded Percentage ⁶		78.4 %	81.3 %	2.9 %
Credit Balance	\$	(5,962,232)	\$ (11,163,516)	\$ (5,201,284)

¹ These are non-vested inactive participants who have not incurred a permanent break-in-service.

² Includes 21 Alternate Payees as of January 1, 2020 and 22 Alternate Payees as of January 1, 2021.

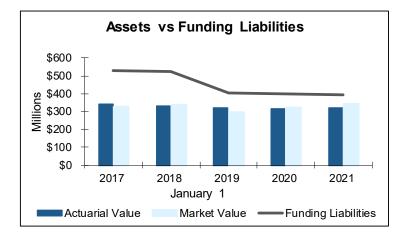
³ 2020 Plan Year experience includes an asset gain of \$5.7 million and a liability gain of \$1.6 million as of January 1, 2021.

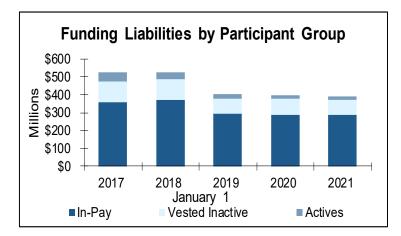
⁴ The Actuarial Accrued Liability reflects the MPRA benefit reduction as of January 1, 2019.

⁵ Unfunded Vested Benefits are based on the Market Value of Assets and include the present value of adjustable benefits and MPRA benefit suspensions. The amount for January 1, 2020 was updated from the prior report to reflect final regulations relating to application of the MPRA benefit suspension liability,

⁶ PPA is the Pension Protection Act of 2006 – it requires the use of the AVA and liabilities calculated using the Unit Credit Cost Method.







ASSETS		
A. Cash and Cash EquivalentsB. Marketable SecuritiesC. Net Receivables, Payables and Prepaid Expenses	\$	5,520,524 334,560,205 123,920
D. Market Value of Assets (A + B + C)	\$	340,204,649
E. Actuarial Adjustment (Appendix E)	_	(20,730,202)
F. Total Assets at Actuarial Value (D + E)	\$	319,474,447
LIABILITIES		
Funding		
G. Actives	\$	20,813,622
H. Vested Inactives		86,331,126
I. In Pay Status	_	285,730,505
J. Actuarial Accrued Liability (G + H + I)	\$	392,875,253
K. Unfunded Accrued Liability (J - F)	\$	73,400,806
PPA (Statutory)		
L. Actives	\$	20,813,622
M. Vested Inactives		86,331,126
N. In Pay Status	_	285,730,505
O. Actuarial Accrued Liability (L + M + N)	\$	392,875,253
P. PPA Funded Percentage (F / O)		81.3 %

Section I – Assets and Liabilities (Continued)

The financial status of the Plan provides us with the means of measuring the actuarial position of the Plan as of January 1, 2021.

ASSETS

The total Market Value of Assets as of January 1, 2021 is \$340,204,649. Information regarding assets was taken from the draft audit report provided by Eide Bailly LLP. Results are not expected to change with the final audit.

We have utilized an asset valuation method that recognizes net investment income on Trust assets that is more or less than a 7.25% market return per year over a five-year period. The value of Trust assets based on this method is \$319,474,447, which represents 93.9% of the Market Value of Assets. This method is intended to dampen the volatility associated with year-to-year changes in the market value of Trust assets, while at the same time systematically recognizing overall investment performance over the long term. The derivation of the Actuarial Value of Assets is shown in Appendix E.

Contributions receivable from Employers for hours worked in the 2020 Plan Year but received after December 31, 2020 are included with net receivables.

LIABILITIES

The liabilities of the Plan are calculated for each individual participant based on data provided by the Plan Administrator and assumptions that are outlined in Appendix A. The \$285,730,505 liability for those in pay status represents the estimated amount required as of the valuation date to pay their benefits as they come due in the future. The remaining liability is split between participants who are inactive and those who are continuing to earn benefits under the Plan. The Actuarial Accrued Liability is the sum of the liability amounts for each group and is equal to \$392,875,253.

UNFUNDED ACCRUED LIABILITIES

The liabilities of the Plan exceed the Actuarial Value of Assets by \$73,400,806. This amount is known as the Unfunded Accrued Liability, which is amortized by the excess of contributions received over the cost of each future year's accumulation of benefits and operating expenses. If the Market Value of Assets is used, the Unfunded Accrued Liability is equal to \$52,670,604.

Section I – Assets and Liabilities (Continued)

As shown in Section III, the current excess of contributions over benefit accruals and operating expenses is about \$8.2 million as of the beginning of year and is sufficient to pay down the Unfunded Accrued Liability assuming payment of all outstanding withdrawal liability on both an Actuarial Value of Assets basis (14 years) and a Market Value of Assets basis (9 years) assuming all future actuarial assumptions are realized.

The Fund submitted an application to the United States Department of the Treasury to implement benefit suspensions as permitted under the Multiemployer Pension Reform Act (MPRA). Following approval from the Treasury and a participant vote, benefit reductions of 30% on all accrued benefits earned through September 30, 2018, subject to the MPRA restrictions on benefit suspensions for older participants, disabled participants, and those with small benefits were implemented effective October 1, 2018.

The reduction in plan liabilities associated with the MPRA benefit suspensions was first reflected in the January 1, 2019 actuarial valuation and will be reflected going forward.

Section II – Actuarial Experience

ACTUARIAL VALUATION

An actuarial valuation is a snapshot of asset and liability measures of the pension fund. It is used to estimate the amount of funds needed to help assure the future payment of retirement, termination, disability and death benefits to Plan participants based on Plan benefits in effect on the valuation date. The liability is based on the actual service rendered by these participants prior to the valuation date and on a set of actuarial assumptions and methods. These assumptions have been selected by the Actuary while the methods have been adopted by the Trustees upon the recommendation of the Actuary. Both are described in Appendix A.

GAIN/(LOSS)

To the extent that actual experience during the plan year is different from what was expected based on the set of actuarial assumptions outlined in Appendix A, gains or losses are realized.

An asset gain or loss results if the Actuarial Value of Assets returns more or less than the assumed rate of return. Actual operating expenses that are more or less than that assumed are also included as gains or losses in the asset gain or loss amount.

Liability gains or losses occur when actual demographic experience is different from that assumed by the demographic assumptions. The total liability gain or loss consists of gains or losses attributable to mortality, termination, retirement and disability assumptions. In addition, the effects of unforeseen data changes that may occur from year to year are part of the miscellaneous component.

Development of Gain/(Loss)

The net actuarial gain or loss includes all actuarial experience from assets and liabilities but excludes changes in asset method, assumptions or Plan provisions effective on January 1, 2021. The following exhibit develops the net actuarial gain or loss for the 2020 Plan Year:

NET ACTUARIAL GAIN/(LOSS)

A. Unfunded Accrued Liability on January 1, 2020	\$ 86,231,837
B. Normal Cost (Including Operating Expenses)	1,706,588
C. Contributions for 2020	(13,138,624)
D. Interest on A, B and C	5,899,261
E. Expected Unfunded Accrued Liability on January 1, 2021 (A + B + C + D)	\$ 80,699,062
F. Actual Unfunded Accrued Liability on January 1, 2021	73,400,806
G. Net Actuarial Gain/(Loss) (E - F)	\$ 7,298,256

Summary of Gain/(Loss) by Source

The total net actuarial gain or loss for the 2020 Plan Year is allocated among asset and liability components as shown below:

	Gain/(Loss)		
Asset Experience			
Investment	\$	6,171,841	
Operating Expenses		(429,913)	
Total Asset Gain	\$	5,741,928	
Liability Experience			
Mortality		1,113,993	
Termination		(24,463)	
Retirement		751,127	
Disability		556	
Miscellaneous		(284,885)	
Total Liability Gain	\$	1,556,328	
Net Actuarial Experience Gain	\$	7,298,256	

ASSET EXPERIENCE

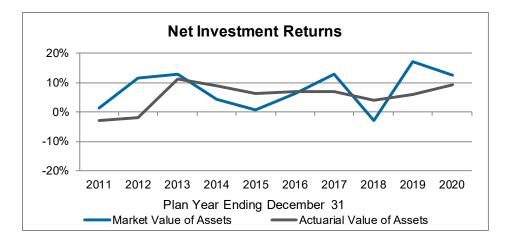
Net Investment Return

The assumed rate of return on investments is 7.25% compounded annually, net of investment expenses. The net investment return on the Actuarial Value of Assets (AVA) during the 2020 Plan Year was 9.29% and resulted in an asset gain of \$6,171,841. Appendix E shows the details of the actual net investment income calculation.

		Dollar Amount	Return on AVA
A. Gross Investment Income	\$	29,300,401	9.70 %
B. Investment Expenses	_	(1,218,017)	(0.41)%
C. Net Investment Income (A + B)	\$	28,082,384	9.29 %
D. Expected Net Investment Income		21,910,543	7.25 %
E. Investment Gain (C - D)	\$	6,171,841	2.04 %

Plan Year	Net Investm	ent Return		
Ending December 31	Actuarial Value	Market Value		
2016	6.84 %	6.44 %		
2017	7.02 %	13.04 %		
2018	4.14 %	(2.98)%		
2019	5.96 %	17.10 %		
2020	9.29 %	12.62 %		
5-Year Average ¹	6.64 %	9.01 %		
10-Year Average ¹	5.41 %	7.55 %		

¹ Geometric average return.



Operating Expenses

The assumed operating expenses for the 2021 Plan Year are \$1,550,000, payable mid-year. This amount includes \$1,300,000 in expected ongoing expenses and \$250,000 related to one-time expenses due to implementation of the provisions of the American Rescue Plan Act of 2021 The assumed operating expenses for the prior year were \$1,000,000, payable mid-year. The actual operating expenses for the year were \$1,414,873, resulting in a loss on expenses of \$429,913, with interest to the end of the 2020 Plan Year.

Plan Year	Gain/(Loss)			
2017	\$	(463,821)		
2018		(247,721)		
2019		(515,236)		
2020		(429,913)		
4-Year Total	\$	(1,656,691)		

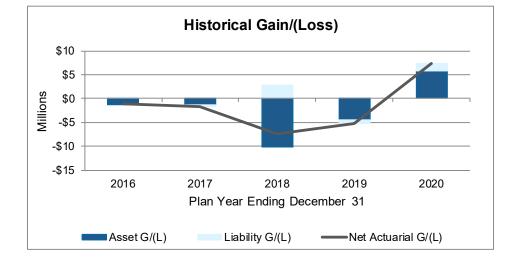
Liability Experience

The key demographic assumptions in the valuation are mortality for active and inactive participants and termination, retirement and disability for active participants. Liability gains and losses that are allocated to mortality, termination, retirement and disability components usually reflect more than one related demographic assumption, such as the form of benefit elected and the spouse age difference. These items as well as further details and historical information on the Plan's liability experience are included in Appendix D.

Historical Gain/(Loss)

Fluctuations in experience for all assumptions are to be expected from year to year. It is the net result over a period of time that must be viewed to determine the validity of the assumptions used. A summary of the asset, liability and net actuarial gain/loss amounts over the last five years is shown below.

Plan Year	Asset Gain/(Loss)				Net Actuarial Gain/(Loss)	
2016	\$	(1,353,294)	\$	331,775	\$	(1,021,519)
2017		(1,204,111)		(408,749)		(1,612,860)
2018		(10,172,116)		2,786,127		(7,385,989)
2019		(4,482,923)		(722,618)		(5,205,541)
2020		5,741,928		1,556,328		7,298,256
5-Year Total	\$	(11,470,516)	\$	3,542,863	\$	(7,927,653)



Section III - Employer Contributions and Costs

PROJECTION FOR 2021 PLAN YEAR

Employer contributions and costs for the 2021 Plan Year are based on expected contributions, including base, surcharge, and supplemental contributions as well as expected withdrawal liability payments, and actual hours worked during 2020 adjusted with known withdrawals to date.

The difference between the Employer contributions and the cost of benefits is the excess (if any) that can be used to pay down the Unfunded Accrued Liability.

		Dollars per Covered Hour
A. Employer Contributions	\$ 4,397,000	\$ 5.33
B. Withdrawal Liability Payments	6,128,000	N/A
C. Normal Cost for Benefit Accruals	726,000	0.88
D. Estimated Operational Expenses ¹	1,300,000	N/A
E. Available for Funding ² (A + B - C - D)	\$ 8,499,000	N/A

¹ Excludes expected one-time fees of \$250,000 related to the ARPA application.

² Mid-year.

The projected Employer contributions exceed the estimated cost of benefits to be earned, plus operating expenses, during 2021 by about \$8.2 million as of the beginning of year. Based on asset and liability measures on the valuation date this excess is sufficient to pay down the Unfunded Accrued Liability assuming payment of all outstanding withdrawal liability on both an Actuarial Value of Assets basis (14 years) and a Market Value of Assets basis (9 years) assuming all future actuarial assumptions are realized.

	A	Actuarial Value Basis	Market Value Basis
Unfunded Accrued Liability	\$	73,400,806	\$ 52,670,604
Amount Available for Funding ¹		8,212,704	8,212,704
Period to Pay off UAL		14 Years	9 Years

¹ Beginning of year.

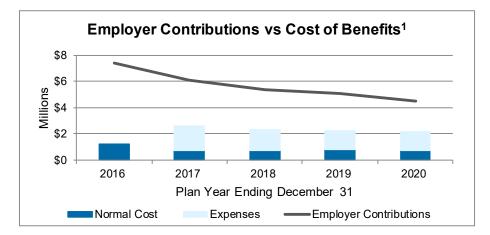
Section III - Employer Contributions and Costs (Continued)

The Trustees originally adopted a Rehabilitation Plan on October 16, 2009, which was updated in 2012 to include reasonable measures to forestall possible insolvency. The Plan was first certified in critical and declining status for the 2016 Plan Year.

In order to avoid plan insolvency, the Fund submitted an application to the United States Department of the Treasury to implement benefit suspensions as permitted under the Multiemployer Pension Reform Act. On August 3, 2018 the Treasury approved the Fund's application for suspension of benefits. Participant voting to approve the benefit suspensions ended on September 7, 2018 and benefit reductions of 30% on benefits earned through September 30, 2018 took effect on October 1, 2018. As of January 1, 2021, the PPA Certification indicated that the Plan was no longer projected to become insolvent and the Plan is certified in critical status for the 2021 Plan Year.

HISTORICAL

Over time, Employer contributions have exceeded the cost of benefits and operating expenses, but have not been sufficient to reduce the Unfunded Accrued Liability.



¹ Contributions do not include withdrawal liability payments.

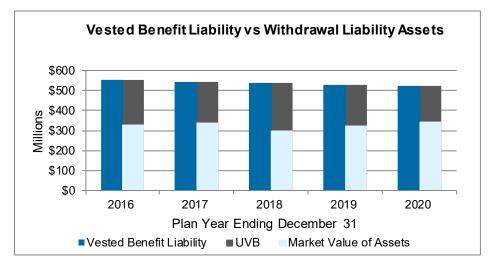
Section IV – Withdrawal Liability

Withdrawal liability assessments, if any, are based on the amount of "Unfunded Vested Benefits" (UVB) and an Employer's contribution history. For this purpose, benefits in which a participant is not immediately vested are excluded from the determination of vested benefits (disability and death benefits other than the Qualified Preretirement Survivor Annuity (QPSA) are not included). The present value of vested benefits for withdrawal liability determination. Based on Board of Trustee input, the Plan uses a market based approach to determine the Plan's Unfunded Vested Benefits. This approach is described in Appendix B. Assets are based on the Market Value of Assets for withdrawal liability purposes.

The simplified method (under PBGC Technical Update 10-3) was adopted to comply with the Pension Protection Act's requirement for Red Zone plans to disregard any reduction in adjustable benefits when determining the UVB for withdrawal liability - this includes early retirement subsidies, including those for the Rule of 80, and the 60-month guarantee in life annuity. The Static Method as outlined in the final PBGC regulations issued in January 2021 is used to disregard the benefit suspensions under MPRA, which includes benefit suspensions of 30% on benefits earned through September 30, 2018. Please refer to Appendix K for a development of the Vested Benefit Liabilities.. The resulting UVB as of December 31, 2020 is as follows:

	December 31, 2020		
A. Vested Benefit Liabilities Earned to Date	\$	520,942,237	
B. Market Value of Assets		340,204,649	
C. Unfunded Vested Benefits (A - B, not less than \$0)	\$	180,737,588	

A positive Unfunded Vested Benefits value means that Employers who withdraw in the 2021 Plan Year may be subject to a withdrawal liability assessment.



Section V - Risk Assessment

The Plan's future financial condition will be based on actual experience that arises in each future year. The actuarial assumptions, both economic and demographic as outlined in Appendix A, are selected to anticipate the experience for the Plan. There is a range of potential acceptable assumptions that could be used. We have not analyzed the range of acceptable assumptions but have selected the assumptions that we feel best represent the expected experience of the Plan for the purpose at hand. The risk to the Plan is that there is uncertainty of future results due to actual experience deviating from expected experience. These deviations can cause asset/liability mismatch risk, or the potential that changes in asset values are not matched by changes in the value of liabilities. This mismatch can create funding risk for employers and participants. Funding risk is primarily comprised of the following key risk factors:

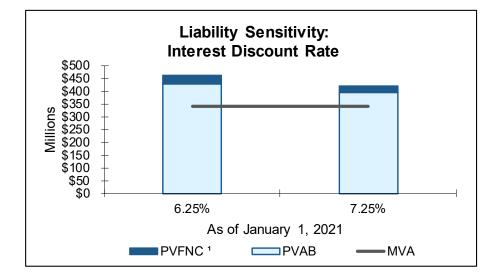
- Investment return risk
- Longevity and other demographic risks
- Contribution risk

All plans will face longevity and other demographic risks to some extent. These risks can be analyzed by looking at the historical gains or losses due to the corresponding assumptions in the context of the business cycles that were present. Refer to Section II and Appendix D for additional details. As the traditional multiemployer defined benefit plan matures (more inactive participants and fewer actives), there is higher investment and contribution risk to the plan. In this traditional multiemployer plan design, planning for these risks is vital in managing funding risks for stakeholders. The primary risks above can be analyzed by looking at a sensitivity analysis and statistics related to the Plan's level of maturity. Historical information related to the Plan's risks is shown in Appendix F. In addition, projections or risk studies can provide a further look at the Plan's risk analysis.

INVESTMENT RETURN RISK

Investment return risk is the potential that investment returns will be different from expected. The Plan faces investment risk when the assets return less than the assumed rate of return. The interest discount rate for liabilities of the Plan has been set according to our long-term outlook on what the Plan might receive based on the current investment policy. Generally, the more mature a plan is, the more reliant it is on investment returns and thus may be more vulnerable to investment return risk.

To illustrate the impact of a change in the investment return, we look at the impact on the Plan's liabilities. The following graph illustrates how sensitive the Plan's liabilities are to a 1.00% decrease in the interest discount rate currently used to value liabilities. The graph shows liabilities valued at the corresponding interest discount rates (6.25% and 7.25%) in comparison to the current Market Value of Assets. The liabilities shown are the present value of future benefits broken down into the present value of accrued benefits (PVAB) and the present value of future normal costs and operating expenses (PVFNC), which is the present value of benefits expected to be earned in the future plus operating expenses.



¹ Includes operating expenses of \$1,497,611 as of the beginning of year, plus 1.50% inflation in each future plan year (based on the \$1,300,000 ongoing expense assumption which excludes the \$250,000 one-time expected fees related to ARPA implementation).

If the current hours and contribution levels remain the same going forward and the assumed rate of return and interest discount rate are 6.25%, it would take about 10 more years to pay off the Unfunded Accrued Liability (UAL) on a Market Value basis if all other actuarial assumptions are realized in the future.

If the current hours level remains the same going forward and the assumed rate of return and interest discount rate are 6.25%, an hourly rate increase of \$4.59 would be needed to pay for the one-time increase in liabilities if amortized over the next 15 years and all other actuarial assumptions are realized. In addition, an hourly rate increase of \$0.15 would be needed each year to pay for the associated annual increase in normal cost. Even with these hourly rate increases, the Plan may be projected to have a lower funded percentage in 15 years due to a lower expected return on Plan assets (6.25% vs. 7.25%). The impact of variable investment returns (especially through projections) is outside the scope of this report.

LONGEVITY AND OTHER DEMOGRAPHIC RISKS

Longevity and other demographic risks are the potential that mortality and other demographic experience will be different from expected experience based on the assumptions outlined in Appendix A. Gains and losses over a period of time can be analyzed to see how well actual experience follows expected experience. Section II and Appendix D can be reviewed for current and historical demographic experience to help guide future expectations.

Of utmost importance demographically is longevity risk. If participants live longer than what is expected through the mortality assumption, the liabilities will be understated and the future funding levels of the Plan will be lower than expected. Retirement risk can sometimes be significant as well. For example, if demographic experience results in a 3% increase in the Plan's liability due to such issues as increased early retirements and fewer deaths than expected, an hourly rate increase of \$1.54 would be needed to cover the added cost if amortized over the next 15 years assuming no change in expected hours and all other actuarial assumptions are realized.

CONTRIBUTION RISK

Contribution risk is the potential that contributions received are different from contributions expected to be received, including contributions required under collective bargaining agreements, Funding Improvement/ Rehabilitation Plans and withdrawal liability assessments. The Plan could also face contribution risk if the current contribution level does not cover the cost of benefits being earned or would result in a current or projected credit balance deficiency. Contributions can also be impacted by unexpected changes in hours or the number of active participants for whom contributions are due to the Plan. The hours and number of active participants over the last 17 years can be reviewed under Appendix F to help understand the role of contribution risk historically and to help evaluate this risk prospectively. The chart below illustrates how the Plan's hours level can impact the number of years required to pay down the Unfunded Accrued Liability on a Market Value basis (UAL (MVA)) assuming the same level of hours are worked in each future year, the average hourly contribution rate remains the same and all other actuarial assumptions are realized:

Years to Fully Fund on a Market Value Basis Based on Hours Worked							
	20%	Drop in Hours	C	Current Hours Assumption	2	20% Increase in Hours	
Expected Hours		660,000		825,000		990,000	
Expected Contributions ¹	\$	3,518,000	\$	4,397,000	\$	5,277,000	
Expected Withdrawal Liability Payments ²		6,128,000		6,128,000		6,128,000	
Expected Normal Cost		1,881,000		2,026,000		2,172,000	
Expected Available for Funding as of Mid-year	\$	7,765,000	\$	8,499,000	\$	9,233,000	
UAL (MVA)	\$	52,670,604	\$	52,670,604	\$	52,670,604	
Years to Fully Fund ²		10 Years		9 Years		8 Years	

¹ Expected contributions are based on an hourly contribution rate of \$5.33.

² Withdrawal liability payments are subject to a 20 year payment limit, which can potentially extend the time period to pay off the unfunded liability.

PLAN MATURITY AND RISK MEASUREMENTS

There are several statistics that can help in assessing a plan's ability to recover from financial challenges and its long-term sustainability. The information that follows shows some of these key measurements for the Plan along with their definitions and concluding remarks about the Plan's ability to address risk.

PLAN MATURITY AND RISK MEASUREMENTS ¹							
January 1, 2020 January 1, 2021 Cha							
Inactive to Active Ratio ¹	13.66	14.30	0.64				
In Pay Status Actuarial Accrued Liability to Total Actuarial Accrued Liability Ratio	0.73	0.73	0.00				
Net Cash Flow as a % of Average MVA	(7.5)%	(6.5)%	1.0 %				
Contribution Increase to Fund 1% Market Return Shortfall Over One Year ²	\$ 3.2 million (\$3.74 / hour)	\$ 3.4 million (\$4.12 / hour)	10.2 %				
Contribution Increase to Fund 10% Market Return Shortfall Over 15 Years ³	\$3.89 / hour	\$4.29 / hour	10.3 %				
MVA Funded Percentage	80.8 %	86.6 %	5.8 %				
Current Liability Funded Percentage	51.3 %	52.2 %	0.9 %				

- <u>Inactive to Active Ratio</u> is the number of retirees, beneficiaries and vested inactive participants each active participant "supports." The higher the ratio, the more mature the plan.
- <u>In Pay Status Actuarial Accrued Liability to Total Actuarial</u> <u>Accrued Liability Ratio</u> is the ratio of the liability associated with retirees and beneficiaries currently receiving a benefit to the Plan's total liability. The higher the ratio, the more mature the plan.
- <u>Net Cash Flow as a % of Average MVA</u> is the Plan's cash inflows in the form of contributions less the Plan's cash outflows in the form of benefit payments and operating expenses as a percent of the average Market Value of Assets. The percentage represents the "opposite" investment return needed to maintain level assets (i.e., negative cash flow, positive return needed). The lower the percentage, the more mature the plan.

- ¹ Excludes Non-Vested Inactives and Alternate Payees.
- ² Assumes 862,000 future hours in 2020 and 825,000 future hours in 2021. Figure shown is a "temporary" one-time increase to fund a one-time shortfall.
- ³ Assumes 862,000 future hours in 2020 and 825,000 future hours in 2021

- <u>Contribution Increase to Fund 1% Market Return Shortfall over</u> <u>One Year</u> is the additional contribution that would be required to offset a 1% shortfall in the Plan's investment return for the year. Also shown is the corresponding immediate increase in the average hourly contribution rate needed to fund the 1% shortfall based on the hours expected to be worked that year. Note, future benefit reductions could also be used to address a shortfall.
- <u>Contribution Increase to Fund 10% Market Return Shortfall over</u> <u>15 Years</u> is the immediate increase in the average hourly contribution rate that would be required to fund a 10% shortfall in the Plan's investment return for the year if amortized over a 15year period. This assumes the hours expected to be worked in that year are also worked in each of the subsequent 14 years, the contribution rate remains the same and all other future actuarial assumptions are realized. Again, future benefit reductions could also be used to address a shortfall.
- <u>MVA Funded Percentage</u> is the Market Value of Assets divided by the Plan's liabilities, determined using valuation assumptions. In general, plans should have a long-term goal to achieve at least 100% funding and remain fully funded.

<u>Current Liability Funded Percentage</u> is the Market Value of Assets divided by the Plan's liabilities, determined using a risk-free interest rate and mandated mortality assumption. This information is reported on the Form 5500 Schedule MB and may be used as a rough estimate of the Plan's funding on a liquidation basis.

Based on the Plan Maturity and Risk Measurements shown above, the Plan is considered to be very mature. The Plan has cash outflows that significantly exceed cash inflows and the inactive participants significantly outnumber the active participants indicating the Plan is considerably more reliant on investment income to pay pension benefits than on contributions for active hours worked. Thus, if investment returns fall short of the 7.25% assumed return, even significant contribution increases and/or cuts to future accruals may not be enough to recover without future investment gains. The Plan is heavily dependent on its investment returns for future solvency.

Section VI – Other Plan Information

CHANGES IN PLAN PROVISIONS, VALUATION METHODOLOGY, AND ASSUMPTIONS

The current liability interest and mortality assumptions were updated as prescribed by IRS regulations. Refer to Appendix A for a description of these changes.

The expense assumption was increased from \$1,000,000 to \$1,550,000 to reflect the recent and anticipated level of operating expenses, including an estimated \$250,000 related to one-time expenses due to implementation of the provisions of the American Rescue Plan Act of 2021.

No other changes to Plan provisions, valuation methodology, and assumptions have been made since the prior valuation as of January 1, 2020.

Section VII – Appendices

Appendix A	Actuarial Methods and Assumptions
Appendix B	Summary of Principal Plan Provisions
Appendix C	Participant Information
Appendix D	Liability Experience
Appendix E	Asset Information
Appendix F	Historical Information
Appendix G	Funding Standard Account (for Schedule MB)
Appendix H	Additional Schedule MB Information
Appendix I	Maximum Deductible Contribution
Appendix J	Auditor Information (FASB ASC 960)
Appendix K	Withdrawal Liability Information
Appendix L	Funding Standard Account (No Amortization Extension)

Appendix A – Actuarial Methods and Assumptions

METHODOLOGY:	
Actuarial Value of Assets	Assets are valued according to a method which recognizes 20% of each year's excess (or deficiency) of actual investment return on the Market Value of Assets over the expected return on the Market Value of Assets in the year the excess (or deficiency) occurs. An additional 20% of the excess (or deficiency) is recognized in each of the succeeding four years until it is totally recognized. In no event will the Actuarial Value of Assets be less than 80% or more than 120% of the Market Value of Assets.
Actuarial Cost Method	Unit Credit Cost Method Under this method, we determine the present value of all benefits earned through the valuation date. An individual's normal cost is the present value of the benefit expected to be earned in the valuation year. The total accrued liability is the sum of the individual present values for all participants. The Unfunded Accrued Liability is the difference between the accrued liability and the assets of the Trust. If the assets exceed the accrued liability, the Plan is in a surplus position. This method requires that each year's contributions be applied first to the normal cost, and the balance of the contributions applied to amortize the Unfunded Accrued Liability. The normal cost is adjusted at the close of the plan year to reflect the actual level of contributions received during that plan year.
Withdrawal Liability Basis	The present value of accrued vested benefits for withdrawal liability determination uses an interest rate of 7.25% along with all other valuation assumptions. The simplified method issued by the Pension Benefit Guaranty Corporation is used to account for the protected benefits that were reduced in accordance with the Plan's critical status and subsequent Rehabilitation Plan and the Plan's benefit suspensions under MPRA. Assets for this purpose are based on the Market Value of Assets.

Appendix A – Actuarial Methods and Assumptions (Continued)

ASSUMPTIONS:	
Interest Discount Rate	7.25% for funding, FASB ASC 960 and withdrawal liability, and 2.43% for current liability.
Assumed Rate of Return on Investments	7.25% compounded annually, net of investment expenses.
Derivation of Net Investment Return and Discount Rate for FASB ASC 960 Accounting	The expected return assumptions are established based on a long-term outlook and are based on past experience, future expectations and professional judgment. We have modeled the assumptions based on average long-term future expected returns and their respective capital market assumptions as provided by several investment professionals. Based on the inputs of the Plan's specific target asset allocation, we have established the reasonability of the Plan's assumption.
Operating Expenses	A total annual amount of \$1,550,000 paid in monthly installments (\$1,497,611 at beginning of year). This amount includes \$1,300,000 in ongoing expenses and \$250,000 in one-time ARPA-related fees.
Investment Expenses	Assumed covered by investment earnings.
Justification for Demographic Assumptions	The mortality, termination, retirement and disability assumptions are reviewed with each valuation to ensure they are reasonable and represent the actuary's best estimate of the long-term expectations for the Plan. Past experience and anticipated future experience based on industry-specific knowledge and professional judgment are used to verify the reasonability of each of these assumptions.
Mortality	 Healthy Lives: RP-2014 Blue Collar Mortality Table for males and females, adjusted backward to 2006 using MP-2014, then projected forward from 2006 with Fully Generational Mortality Improvement under MP-2016. Disabled Lives: RP-2014 Disabled Retiree Mortality Table for males and females, adjusted backward to 2006 using MP-2014, then projected forward from 2006 with Fully Generational Mortality Improvement under MP-2016. Current Liability: 2021 static mortality tables provided in IRC Regulations Section 1.431(c)(6)-1, as prescribed by IRS Notice 2019-67.
Mortality Improvement	The mortality assumption has been updated to reflect fully generational mortality improvements using the MP-2016 scaling factors.
Termination Rates	Table T-7 (Less 51 GAT) of The Actuary's Pension Handbook. Non-Vested Participants are assumed to earn one year of vesting credit annually until vested.

Appendix A – Actuarial Methods and Assumptions (Continued)

ASSUMPTIONS:							
Retirement Rates	Active participants are ass	Active participants are assumed to retire based on the following rate table:					
	Age	Rate of Retirement					
	55	20%					
	56	15%					
	57-59	12%					
	60	15%					
	61	20%					
	62	40%					
	63-70	35%					
	71+	100%					
	Age 55 56-61 62	Rate of Retirement 15% 5% 18%					
	63-64	3%					
	65+	100%					
Disability Rates	1952 Society of Actuaries	Table, Period 2, Benefit 5.					
Form of Benefit	For those not yet in pay sta assumed to elect a 50% Jo		sumed to elect a Life Annuity and 45% of participants				
	90% of non-retired male		retired female participants are assumed to be mai				
Marital Status		to be one year younger than pa					

Appendix A – Actuarial Methods and Assumptions (*Continued***)**

ASSUMPTIONS:	
Future Employment	Each active participant is assumed to work the same amount of hours as were worked in the prior plan year.
Missing Data	If not specified, participants are assumed to be male and the same age as the average of participants with the same status code.

CHANGES SINCE PRIOR VALUATION	The current liability interest rate was changed from 2.95% to 2.43% due to a change in the allowable interest rate range, and the current liability mortality table was updated as required.
	The expense assumption was increased from \$1,000,000 to \$1,550,000 to reflect the recent and anticipated level of operating expenses, including an estimated \$250,000 related to one-time expenses due to implementation of the provisions of the American Rescue Plan Act of 2021.

Appendix B – Summary of Principal Plan Provisions

The Western States Office & Professional Employees Plan became effective 1959 as a result of collective bargaining between the contributing Employers and the Union. The Plan was last restated as of January 1, 2017 and last amended effective October 1, 2018. The principal provisions of the Plan as of January 1, 2021 are summarized below.

NORMAL RETIREMENT	
Eligibility	Age 65 and vested. Special eligibility if age 65 with 2 years of Vesting Credit (one immediately prior to retirement) and at least a \$10.00 Total Service Benefit.
Monthly Benefit	 Service after 2009: 0.75% of Benefit Accruing Employer Contributions. 2004 - 2009: 1.8% of Employer Contributions. 2003 Service: 2.2% of Employer Contributions up to \$6,240, plus 1.8% of excess. 2001 - 2002 Service: 3.2% of Employer Contributions up to \$6,240 each year; plus 1.8% of excess. 1997 - 2000 Service: 3.65% of Employer Contributions up to \$6,240 each year, plus 1.8% of excess. Prior to 1997: 3.65% of Employer Contributions. Past Service: \$8.20 per year of past service (maximum 15 years).
EARLY RETIREMENT	
Eligibility	Age 55 and vested.
Monthly Benefit	Normal Retirement Benefit actuarially reduced from age 62 for benefits earned before January 1, 2010 and from age 65 for benefits earned on or after January 1, 2010.
POSTPONED RETIREMENT	r i i i i i i i i i i i i i i i i i i i
Eligibility	After Normal Retirement Age.
Monthly Benefit	Normal Retirement Benefit increased 6% per year (½% per month) past age 62 for benefits earned before January 1, 2010 and past age 65 for benefits earned on or after January 1, 2010.
	Effective for annuity starting dates on or after September 1, 2015, participants who continue working for a contributing employer will receive <u>the greater of</u> (a) or (b) below:
	(a) Normal Retirement Benefit increased ½ of 1% for each full month retirement is postponed.
	(b) Accrued benefit as of the participant's postponed retirement date.

Appendix B – Summary of Principal Plan Provisions (*Continued***)**

DISABILITY RETIREMENT (Effective January 1, 2010)					
Eligibility	Vested with at least 200 hours in year prior to onset of Total and Permanent Disability.				
Monthly Benefit	50% of Normal Retirement Benefit payable until age 55.				
PRE-RETIREMENT DEATH BENEFIT	(Effective January 1, 2010)				
Eligibility	Vested at time of death.				
Monthly Benefit	Married: 50% Spousal Joint and Survivor Annuity (reduced for Early Retirement and for joint lives). All Others: Lump sum payment of \$500 per year of service (maximum of \$5,000 total).				
FORMS OF ANNUITY PAYMENTS					
Normal Form	For Married Participants: An actuarially reduced benefit payable as a 50% Spousal Joint and Survivor Annuity. For Unmarried Participants: A life annuity.				
Optional Forms	Straight Life Annuity 50%, 66-2/3% or 100% Spousal Joint and Survivor Annuity 50%, 66-2/3% or 100% Spousal Joint and Survivor Annuity with Pop-up 50%, 66-2/3% or 100% Non-Spousal Joint and Survivor Annuity Lump Sum if present value of accrued benefit ≤ \$5,000				
OTHER					
Vesting Service	A Participant will receive one year of Vesting Credit if 200 or more hours are worked in a plan year.				
Break in Service Rules	A one-year break in service is incurred if a Participant works less than 200 hours in a plan year.				

CHANGES SINCE PRIOR VALUATION	None.
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	Jan	uary 1, 2020	Ja	nuary 1, 2021	Change	Percent Change
Actives:						
Number		491		465	(26)	(5.3)%
Averages:						
Age ¹		48.0		48.5	0.5	1.0 %
Years of Credited Service		11.3		11.4	0.1	0.9 %
Hours		1,773		1,749	(24)	(1.4)%
Non-Vested Inactives						
Number		233		224	(9)	(3.9)%
Averages:						
Age ¹		40.8		41.5	0.7	1.7 %
Years of Credited Service		2.1		2.0	(0.1)	(4.8)%
Accrued Benefit ²	\$	57	\$	53	\$ (4)	(7.0)%
Vested Inactives:						
Number		2,636		2,558	(78)	(3.0)%
Averages:		,		,	()	
Age		53.3		53.9	0.6	1.1 %
Years of Credited Service		11.8		11.8	0.0	0.0 %
Vested Accrued Benefit ²	\$	429	\$	427	\$ (2)	(0.5)%
In Pay Status:						
Number:						
Healthy Retirees		3.743		3,749	6	0.2 %
Disabled Retirees		93		92	(1)	(1.1)%
Beneficiaries ³		257		271	14	5.4 %
Total		4,093		4,112	19	0.5 %
Averages:		.,		.,		
Age		72.9		73.3	0.4	0.5 %
Monthly Benefit ²	\$	680	\$	672	\$ (8)	(1.2)%

Appendix C – Participant Information

¹ For participants with known birthdates.

² MPRA benefit reduction has been reflected in the monthly benefit.

³ Includes 21 Alternate Payees as of January 1, 2020 and 22 Alternate Payees as of January 1, 2021.

Appendix C – Participant Information (*Continued***)**

	Actives	Non-Vested Inactives	Vested Inactives	In Pay Status	Total
otal as of January 1, 2020	491	233	2,636	4,093	7,453
New Entrants	45	0	0	0	45
Vested Terminations	(29)	0	29	0	0
Non-Vested Terminations	(31)	31	0	0	0
Returned to Work	2	(1)	(1)	0	0
Healthy Retirements	(12)	0	(98)	110	0
Disabled Retirements	0	0	0	0	0
Deaths in Year	(1)	0	(6)	(119)	(126)
Benefit Period Expired	0	0	0	0	0
New Beneficiaries	0	0	0	26	26
New Alternate Payees	0	0	0	1	1
Lump Sum	0	0	0	0	0
Permanent Break in Service	0	(39)	0	0	(39)
Data Corrections	0	0	(2)	1	(1)
Net Change	(26)	(9)	(78)	19	(94)
otal as of January 1, 2021	465	224	2,558	4,112	7,359

Appendix C – Participant Information (*Continued***)**

DISTRIBUTION OF NON-RETIRED PARTICIPANTS								
			Actives		Inactives			
Age Group	Non-Vested	Vested	Total Actives	Non-Vested	Vested	Total Inactives		
Under 25	6	1	7	2	0	2		
25 - 29	27	3	30	28	0	28		
30 - 34	32	10	42	45	31	76		
35 - 39	16	25	41	39	114	153		
40 - 44	26	29	55	30	210	240		
45 - 49	21	33	54	25	333	358		
50 - 54	17	42	59	19	578	597		
55 - 59	17	49	66	16	607	623		
60 - 64	10	55	65	15	519	534		
65 - 69	2	30	32	2	132	134		
70 and Over	1	6	7	2	34	36		
Unknown	7	0	7	1	0	1		
Total	182	283	465	224	2,558	2,782		
erage Age ¹	41.4	52.9	48.5	41.5	53.9	52.9		
erage Accrued Benefit ²	\$81	\$ 847	\$ 547	\$ 53	\$ 427	\$ 397		

¹ For participants with known birthdates.

² MPRA benefit reduction has been reflected in the average accrued benefit.

Appendix C – Participant Information (*Continued***)**

	Continuing Healthy	New Healthy	Continuing Disabled	New Disabled	Continuing	New	Grand
Age Group	Retirees	Retirees	Retirees	Retirees	Beneficiaries ¹	Beneficiaries ¹	Total
Under 50	1	0	4	0	14	1	20
50 - 54	0	0	1	0	5	0	6
55 - 59	72	12	8	0	9	4	105
60 - 64	314	52	13	0	19	5	403
65 - 69	805	43	30	0	36	1	915
70 - 74	1,001	3	18	0	41	4	1,067
75 - 79	626	0	10	0	39	8	683
80 - 84	439	1	2	0	40	3	485
85 and Over	380	0	6	0	41	1	428
Total	3,638	111	92	0	244	27	4,112
erage Age	73.8	63.9	68.2	N/A	73.4	69.6	73.3
verage Monthly Benefit	\$ 685	\$ 566	\$ 1,007	\$ N/A	\$ 437	\$ 351	\$ 672

¹ Includes 21 continuing Alternate Payees and 1 new Alternate Payee.

Appendix D – Liability Experience

Liability gains or losses are realized when actual demographic experience is different from what is assumed by the demographic assumptions outlined in Appendix A. The most important demographic assumptions are retirement, termination, disability, and mortality. These are the assumptions used to estimate when an active participant is going to leave active status, and how long a participant will remain in the Plan and receive a benefit. The retirement, termination and disability components also include a range of other assumptions, such as form of benefit election and spouse age difference. The miscellaneous gain or loss amounts include the effects of unforeseen data changes that might occur each year, like date of birth corrections, adjustment for past service or other adjustments to participant data that were not expected. It also includes the effects of new entrants and changes in hours and/or contribution rates that impact the amount of benefits active participants earn during the year.

Plan Year	Retirement Gain/(Loss)	Termination Gain/(Loss)	Disability Gain/(Loss)	Mortality Gain/(Loss)	Miscellaneous Gain/(Loss)	
2016	\$ 1,647,552	\$ 175,220	\$ (92,794)	\$ (1,248,878)	\$ (149,325)	
2017 ¹	682,402	(997,214)	(64,923)	306,647	(335,661)	
2018	1,878,099	(22,276)	(47,065)	1,032,363	(54,994)	
2019	380,147	(19,309)	800	(1,041,722)	(42,534)	
2020	751,127	(24,463)	556	1,113,993	(284,885)	
5-Year Total	\$ 5,339,327	\$ (888,042)	\$ (203,426)	\$ 162,403	\$ (867,399)	

¹ Mortality and Retirement assumptions were updated in 2017 to better reflect future anticipated experience.

Appendix E – Asset Information

SUMMARY OF MARKET VALUE OF ASSETS						
Assets as of December 31, 2020		Market Value	Percent of Total			
Cash (Interest bearing and non-interest bearing)	\$	5,520,524	1.6%			
Partnership/joint venture interests		65,884,889	19.4%			
Value of interest in common/collective trusts		223,967,311	65.8%			
Value of interest in 103-12 Investment Entities		18,595,569	5.5%			
Value of interest in registered investment companies (i.g., mutual funds)		26,112,436	7.7%			
Net Receivables, Payables and Prepaid Expenses		123,920	0.0%			
Total Assets	\$	340,204,649	100.0%			

Appendix E – Asset Information (*Continued***)**

SUMMARY OF RECEIPTS AND DISBURSEMENTS				
	Market Value 2019	Market Value 2020	Actuarial Value 2019	Actuarial Value 2020
Assets (Beginning of Year)	\$ 297,066,081	\$ 322,508,567	\$ 318,132,109	\$ 313,036,709
Receipts During Year				
Contributions	\$ 11,725,927	\$ 13,138,624	\$ 11,725,927	\$ 13,138,624
Investment Income (Net of Investment Expenses)	48,788,485	39,340,728	18,250,599	28,082,384
Subtotal Receipts	\$ 60,514,412	\$ 52,479,352	\$ 29,976,526	\$ 41,221,008
Disbursements During Year				
Benefit Payments	\$ (33,574,714)	\$ (33,368,397)	\$ (33,574,714)	\$ (33,368,397)
Operating Expenses	(1,497,212)	(1,414,873)	(1,497,212)	(1,414,873)
Subtotal Disbursements	\$ (35,071,926)	\$ (34,783,270)	\$ (35,071,926)	\$ (34,783,270)
Assets (End of Year)	\$ 322,508,567	\$ 340,204,649	\$ 313,036,709	\$ 319,474,447
Return on Assets	17.10 %	12.62 %	5.96 %	9.29 %

¹ 2019 contributions include \$2,823,105 of benefit accruing contributions, \$2,266,228 of supplemental contributions, and \$6,636,594 of withdrawal liability payments. 2020 contributions include \$2,481,386 of benefit accruing contributions, \$2,009,122 of supplemental contributions, and \$8,648,116 of withdrawal liability payments.

Appendix E – Asset Information (*Continued***)**

1.	Expected Net Investment Income	
	A. Market Value of Assets	\$ 322,508,567
	B. Contributions	13,138,624
	C. Benefit Payments	(33,368,397)
	D. Operating Expenses	 (1,414,873)
	E. Expected Net Investment Income (A + 1/2 B + 1/2 C + 1/2 D) x 7.25%	\$ 22,597,253
2.	Market Value Earnings	
	A. Interest and Dividends	\$ 770,976
	B. Realized and Unrealized Gains/(Losses)	39,781,844
	C. Investment Expenses	(1,218,017)
	D. Other Income	 5,925
	E. Total Market Value Earnings (A + B + C + D)	\$ 39,340,728
3.	Excess/(Deficit) of Market Value Earnings Over Expected Net Investment Income (2E - 1E)	16,743,475
1 .	Current Year Recognition of Excess/(Deficit) Earnings (Calculated on Next Page)	5,485,131
5.	Net Investment Income (1E + 4)	28,082,384
b .	Recognition of Assets in Excess of the Corridor	 0
7.	Total Net Investment Income (5 + 6)	\$ 28,082,384

Appendix E – Asset Information (*Continued***)**

DETERMINATION OF AC	TUARIAL	VALUE OF ASSETS						
			Amount of Excess/(Deficit) Earnings Recognized or to be Recognize					
Plan Year Ended December 31		Excess / (Deficit) Earnings		Prior Years		Current Year		Future Years
2020	\$	16,743,475	\$	0	\$	3,348,695	\$	13,394,780
2019		28,097,487		5,619,497		5,619,497		16,858,493
2018		(32,806,254)		(13,122,502)		(6,561,251)		(13,122,501)
2017		17,997,154		10,798,293		3,599,431		3,599,430
2016		(2,606,197)		(2,084,956)		(521,241)		0
Total	\$	27,425,665	\$	1,210,332	\$	5,485,131	\$	20,730,202
A. Market Value of Ass	ets as of J	anuary 1, 2021					\$	340,204,649
B. Amount of Excess/(E	B. Amount of Excess/(Deficit) Earnings to be Recognized in Future Years							20,730,202
C. Preliminary Actuarial Value of Assets as of January 1, 2021 (A - B)							\$	319,474,447
D. Recognition of Assets in Excess of the 20% Corridor								0
E. Actuarial Value of As	ssets as of	January 1, 2021 (C + I	D)				\$	319,474,447

HISTORICAL	PARTICIPANT P	OPULATION						
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(C+D+E+F) / (A)
As of January 1	Actives	Non-Vested Inactives	Vested Inactives	Retirees	Disableds	Beneficiaries	Alternate Payees	Inactive to Active Ratio ¹
2002	2,740	0	2,419	2,351	0	98	0	1.78
2003 ²	2,189	0	2,733	2,461	0	101	0	2.42
2004	2,075	0	2,617	2,561	65	105	0	2.58
2005	1,612	0	2,802	2,691	78	112	0	3.53
2006	2,458	0	2,745	2,770	83	129	0	2.33
2007	2,408	0	2,684	2,849	91	136	0	2.39
2008	2,278	0	2,635	2,909	102	133	0	2.54
2009 ³	2,277	0	2,571	2,953	80	140	0	2.52
2010	2,050	0	2,589	3,199	79	158	14	2.94
2011	1,936	0	2,598	3,244	48	143	15	3.12
2012	1,887	0	2,577	3,245	46	154	15	3.19
2013 ⁴	1,806	0	2,555	3,277	42	171	16	3.35
2014	1,718	340	2,546	3,374	39	174	16	3.57
2015	1,000	406	2,957	3,470	35	183	16	6.65
2016	868	376	2,939	3,502	31	194	17	7.68
2017	809	359	2,827	3,512	107	208	18	8.22
2018	626	376	2,798	3,622	101	227	20	10.78
2019	524	262	2,762	3,652	96	230	20	12.86
2020	491	233	2,636	3,743	93	236	21	13.66
2021	465	224	2,558	3,749	92	249	22	14.30

Appendix F – Historical Information

¹ Ratio excludes Non-Vested Inactives and Alternate Payees.

² Disabled pensioners included with retirees prior to January 1, 2004.

³ Alternate Payees included with beneficiaries prior to January 1, 2010.

⁴ Non-Vested Inactives were not valued prior to January 1, 2014.

TORICAL EM	PLOYMENT INF	ORMATION							
As of	Total Hours (Prior Year)		Total Active Ho	urs (Prior Year)	Active Participants		Average Active Hours (Prior Year)		
January 1	Number	% Change	Number	% Change	Number	% Change	Number	% Change	
2005	3,733,578	N/A	3,704,963	N/A	1,612	N/A	2,298	N/A	
2006	4,592,134	23.0 %	4,545,605	22.7 %	2,458	52.5 %	1,849	(19.5)%	
2007	4,527,976	(1.4)%	4,476,696	(1.5)%	2,408	(2.0)%	1,859	0.5 %	
2008	4,282,490	(5.4)%	4,219,030	(5.8)%	2,278	(5.4)%	1,852	(0.4)%	
2009	4,203,802	(1.8)%	4,167,497	(1.2)%	2,277	(0.0)%	1,830	(1.2)%	
2010	4,063,879	(3.3)%	3,854,000	(7.5)%	2,050	(10.0)%	1,880	2.7 %	
2011	3,671,591	(9.7)%	3,647,424	(5.4)%	1,936	(5.6)%	1,884	0.2 %	
2012	3,555,598	(3.2)%	3,513,594	(3.7)%	1,887	(2.5)%	1,862	(1.2)%	
2013	3,358,483	(5.5)%	3,304,980	(5.9)%	1,806	(4.3)%	1,830	(1.7)%	
2014	3,231,057	(3.8)%	3,176,582	(3.9)%	1,718	(4.9)%	1,849	1.0 %	
2015	1,776,431	(45.0)%	1,736,000	(45.4)%	1,000	(41.8)%	1,736	(6.1)%	
2016	1,575,730	(11.3)%	1,545,908	(11.0)%	868	(13.2)%	1,781	2.6 %	
2017	1,358,925	(13.8)%	1,317,052	(14.8)%	809	(6.8)%	1,628	(8.6)%	
2018	1,087,061	(20.0)%	1,032,369	(21.6)%	626	(22.6)%	1,649	1.3 %	
2019	894,247	(17.7)%	868,660	(15.9)%	524	(16.3)%	1,658	0.5 %	
2020	898,450	0.5 %	872,643	0.5 %	491	(6.3)%	1,777	7.2 %	
2021	841,498	(6.3)%	813,073	(6.8)%	465	(5.3)%	1,749	(1.6)%	

As of January 1	Accruing Contributions (Prior Year)	Non-Accruing Contributions (Prior Year)¹	Total Contributions (Prior Year)	Actual Normal Cost (Prior Year)²	Expenses Included in Normal Cost (Prior Year)
2002	\$ 9,660,131	\$ 0	\$ 9,660,131	\$ 10,254,925	\$ 0
2003	9,277,458	0	9,277,458	7,977,857	0
2004	7,854,003	0	7,854,003	6,981,686	0
2005	6,935,726	0	6,935,726	5,294,028	0
2006	7,357,903	0	7,357,903	5,616,275	0
2007	7,399,605	0	7,399,605	5,719,601	0
2008	7,678,247	0	7,678,247	6,083,355	0
2009	8,277,807	0	8,277,807	7,843,659	0
2010	7,842,903	161,882	8,004,785	7,397,015	0
2011	7,676,687	812,322	8,489,009	2,023,454	0
2012	7,297,989	1,324,397	8,622,386	1,949,714	0
2013	6,980,563	2,816,485	9,797,048	1,879,940	0
2014	6,485,023	4,559,318	11,044,341	1,942,949	0
2015	5,064,945	5,346,493	10,411,438	1,693,396	0
2016	4,883,040	6,928,912	11,811,952	1,337,905	0
2017	4,318,217	6,932,693	11,250,910	1,228,069	0
2018	3,383,971	6,204,518	9,588,489	2,108,688	1,352,681
2019	2,949,919	9,276,926	12,226,845	2,052,689	1,352,681
2020	2,823,105	8,902,822	11,725,927	1,736,463	966,200
2021	2,481,386	10,657,238	13,138,624	1,706,588	966,200

¹ Non-Accruing contributions include Critical Status surcharge contributions, Rehabilitation Plan supplemental contributions, and Withdrawal Liability payments.

² Expenses are included with the normal cost effective January 1, 2017 (the investment return assumption is net of investment expenses only). Prior to 2017, expenses were assumed to be covered by investment income (the investment return assumption was net of investment and operating expenses).

HISTORICAL EMPLOYER CONTRIBUTION DETAIL **Supplemental** Withdrawal Liability Accruing Surcharge Total As of Contributions Contributions Contributions **Payments** Contributions January 1 (Prior Year) (Prior Year) (Prior Year) (Prior Year) (Prior Year) 2002 9,660,131 0 0 0 9,660,131 \$ \$ \$ \$ \$ 2003 9,277,458 0 0 0 9,277,458 7,854,003 2004 7,854,003 0 0 0 2005 6,935,726 0 0 0 6,935,726 0 0 2006 7,357,903 0 7,357,903 2007 7,399,605 0 0 0 7,399,605 2008 0 7,678,247 0 0 7,678,247 0 2009 8,277,807 0 0 8,277,807 0 2010 0 7,842,903 161,882 8,004,785 0 8,489,009 2011 7,676,687 0 812,322 8,622,386 2012 7,297,989 884,461 433,924 6,012 2013 6,980,563 365,908 937,412 9,797,048 1,513,165 2014 6,485,023 2,656,274 228,709 1,674,335 11,044,341 2015 5,064,945 3,673,084 103.387 1,570,022 10,411,438 2016 4,883,040 3.509.909 81.811 3,337,192 11,811,952 2017 4,318,217 3,016,465 43.983 3,872,245 11,250,910 2,706,688 9,588,489 2018 3.383.971 8.598 3.489.232 2019 2,949,919 2,400,383 0 6,876,543 12,226,845 2020 2,823,105 2,266,228 0 6,636,594 11,725,927 2021 2,481,386 2,009,122 0 8,648,116 13,138,624

¹ Includes withdrawal liability payments.

IISTORICAL ASS	ETS						1
As of January 1		Market Value of Assets (MVA)		Actuarial Value of Assets (AVA) Ratio			
, , , , , , , , , , , , , , , , , , ,		Value	Return		Value	Return	
2002	\$	435,922,795	(1.19)%	\$	473,193,208	8.08 %	108.5 %
2003		396,536,797	(6.60)%		475,844,156	3.00 %	120.0 %
2004		445,004,175	16.55 %		471,284,566	2.41 %	105.9 %
2005		467,709,398	9.66 %		468,827,191	3.70 %	100.2 %
2006		482,601,045	7.82 %		471,631,523	5.16 %	97.7 %
2007		514,062,081	11.44 %		485,209,973	7.83 %	94.4 %
2008		511,627,264	4.62 %		507,372,247	10.04 %	99.2 %
2009		326,573,213	(32.15)%		391,887,856	(18.37)%	120.0 %
2010		350,729,611	15.95 %		420,875,533	14.48 %	120.0 %
2011		366,575,098	13.23 %		415,436,594	5.71 %	113.3 %
2012		343,278,474	1.50 %		375,837,641	(2.74)%	109.5 %
2013		353,805,803	11.53 %		341,155,304	(1.99)%	96.4 %
2014		371,333,873	12.97 %		351,347,913	11.24 %	94.6 %
2015		359,268,671	4.47 %		353,925,354	9.07 %	98.5 %
2016		334,210,200	0.63 %		347,859,875	6.22 %	104.1 %
2017		326,919,954	6.44 %		342,812,133	6.84 %	104.9 %
2018		335,048,313	13.04 %		333,355,231	7.02 %	99.5 %
2019		297,066,081	(2.98)%		318,132,109	4.14 %	107.1 %
2020		322,508,567	17.10 %		313,036,709	5.96 %	97.1 %
2021		340,204,649	12.62 %		319,474,447	9.29 %	93.9 %

	(A)	(B)	(C)	(D)	(A - B - C)/(D)
As of January 1	Contributions (Prior Year)	Benefit Payments (Prior Year)	Expenses (Prior Year)	Average Market Value of Assets (MVA)	Cash Flow as a % of Average MVA
2002	\$ 9,660,131	\$ 20,927,583	\$ N/A	\$ 444,213,689	(2.5)%
2003	9,277,458	20,835,583	N/A	416,229,796	(2.8)%
2004	7,854,003	24,206,237	N/A	420,770,486	(3.9)%
2005	6,935,726	26,487,895	N/A	456,356,787	(4.3)%
2006	7,357,903	28,371,211	N/A	475,155,222	(4.4)%
2007	7,399,605	29,919,215	N/A	498,331,563	(4.5)%
2008	7,678,247	32,970,957	N/A	512,844,673	(4.9)%
2009	8,277,807	32,853,989	N/A	419,100,239	(5.9)%
2010	8,004,785	34,155,460	N/A	338,651,412	(7.7)%
2011	8,489,009	37,136,630	N/A	358,652,355	(8.0)%
2012	8,622,386	37,224,104	N/A	354,926,786	(8.1)%
2013	9,797,048	37,280,366	N/A	348,542,139	(7.9)%
2014	11,044,341	37,690,222	N/A	362,569,838	(7.3)%
2015	10,411,438	38,445,844	N/A	365,301,272	(7.7)%
2016	11,811,952	39,045,991	N/A	346,739,436	(7.9)%
2017	11,250,910	39,153,722	N/A	330,565,077	(8.4)%
2018	9,588,489	40,137,025	1,847,596	330,984,134	(9.8)%
2019	12,226,845	39,023,959	1,639,055	316,057,197	(9.0)%
2020	11,725,927	33,574,714	1,497,212	309,787,324	(7.5)%
2021	13,138,624	33,368,397	1,414,873	331,356,608	(6.5)%

¹ Effective January 1, 2017, the investment return assumption is net of investment expenses only. Prior to 2017, expenses were assumed to be covered by investment income (the investment return assumption was net of investment and operating expenses).

	(A)	(B)	(A) - (B)	(B) / (A)	(C)	(A) - (C)	(C) / (A)
As of January 1	Funding Actuarial Accrued Liability ¹	Market Value of Assets (MVA)	MVA Unfunded Accrued Liability/ (Actuarial Surplus)	MVA Funded Percentage	Actuarial Value of Assets (AVA)	AVA Unfunded Accrued Liability/ (Actuarial Surplus)	AVA Funded Percentage
2002	\$ 475,408,506	\$ 435,922,795	\$ 39,485,711	91.7 %	\$ 473,193,208	\$ 2,215,298	99.5 %
2003	492,279,140	396,536,797	95,742,343	80.6 %	475,844,156	16,434,984	96.7 %
2004	509,372,505	445,004,175	64,368,330	87.4 %	471,284,566	38,087,939	92.5 %
2005	522,638,089	467,709,398	54,928,691	89.5 %	468,827,191	53,810,898	89.7 %
2006	535,687,366	482,601,045	53,086,321	90.1 %	471,631,523	64,055,843	88.0 %
2007	551,165,594	514,062,081	37,103,513	93.3 %	485,209,973	65,955,621	88.0 %
2008	561,884,044	511,627,264	50,256,780	91.1 %	507,372,247	54,511,797	90.3 %
2009	552,544,039	326,573,213	225,970,826	59.1 %	391,887,856	160,656,183	70.9 %
2010	533,426,348	350,729,611	182,696,737	65.8 %	420,875,533	112,550,815	78.9 %
2011	535,120,828	366,575,098	168,545,730	68.5 %	415,436,594	119,684,234	77.6 %
2012	536,525,258	343,278,474	193,246,784	64.0 %	375,837,641	160,687,617	70.1 %
2013	538,389,644	353,805,803	184,583,841	65.7 %	341,155,304	197,234,340	63.4 %
2014	538,956,405	371,333,873	167,622,532	68.9 %	351,347,913	187,608,492	65.2 %
2015	537,887,774	359,268,671	178,619,103	66.8 %	353,925,354	183,962,420	65.8 %
2016	534,860,955	334,210,200	200,650,755	62.5 %	347,859,875	187,001,080	65.0 %
2017	527,455,968	326,919,954	200,536,014	62.0 %	342,812,133	184,643,835	65.0 %
2018	525,324,100	335,048,313	190,275,787	63.8 %	333,355,231	191,968,869	63.5 %
2019 ²	403,274,236	297,066,081	106,208,155	73.7 %	318,132,109	85,142,127	78.9 %
2020	399,268,546	322,508,567	76,759,979	80.8 %	313,036,709	86,231,837	78.4 %
2021	392,875,253	340,204,649	52,670,604	86.6 %	319,474,447	73,400,806	81.3 %

¹ Prior to 2009, the Funding Actuarial Accrued Liability was determined based on the Entry Age Normal Cost Method. Beginning in 2009, the Unit Credit Cost Method is used.

² Effective October 1, 2018, benefit reductions of 30% on benefits earned through September 30, 2018 for all participants except those who retired under disability and who are over age 80. There is a prorated reduction for participants aged 75 – 80.

ISTORICAL ZON	E CERTIFICATION ¹			
	(A)	(B)	(B) / (A)	
As of January 1	PPA Actuarial Accrued Liability	Actuarial Value of Assets	PPA Funded Percentage	Zone Status
2009	552,544,039	391,887,856	70.9 %	Critical
2010	533,426,348	420,875,533	78.9 %	Critical
2011	535,120,828	415,436,594	77.6 %	Critical
2012	536,525,258	375,837,641	70.1 %	Critical
2013	538,389,644	341,155,304	63.4 %	Critical
2014	538,956,405	351,347,913	65.2 %	Critical
2015	537,887,774	353,925,354	65.8 %	Critical
2016	534,860,955	347,859,875	65.0 %	Critical and Declining
2017	527,455,968	342,812,133	65.0 %	Critical and Declining
2018	525,324,100	333,355,231	63.5 %	Critical and Declining
2019	403,274,236	318,132,109	78.9 %	Critical
2020	399,268,546	313,036,709	78.4 %	Critical
2021	392,875,253	319,474,447	81.3 %	Critical

¹ The PPA Actuarial Accrued Liability, Actuarial Value of Assets and PPA Funded Percentage are based on the final valuation results for the corresponding plan year.

FUNDING STANDARD ACCOUNT		
	2020	2021 (Estimated) ¹
1. Charges		
A. Funding Deficiency on January 1	\$ 5,962,232	\$ 11,163,516
B. Normal Cost (Beginning of Year) ²	1,706,588	2,199,000
C. Amortization Charges ³	36,908,250	35,960,728
D. Interest on A, B and C	 3,231,838	 3,575,935
E. Subtotal Charges (A + B + C + D)	\$ 47,808,908	\$ 52,899,179
2. Credits		
A. Credit Balance on January 1	\$ 0	\$ 0
B. Employer Contributions for Year⁴	13,138,624	10,526,000
C. Amortization Credits	21,473,653	22,232,635
D. Interest on A, B and C	 2,033,115	 1,993,434
E. Subtotal Credits (A + B + C + D)	\$ 36,645,392	\$ 34,752,069
3. Funding Deficiency on December 31 (2E - 1E)	\$ (11,163,516)	\$ (18,147,110)
4. Minimum Required Contribution (Before Credit Balance)	\$ 24,778,415	\$ 29,054,678
5. Minimum Required Contribution (After Credit Balance)	24,778,415	29,054,678
6. ERISA FFL (Accrued Liability FFL)	\$ 94,313,961	\$ 81,081,447
7. "RPA '94" Override (90% Current Liability FFL)	253,292,046	265,451,730

¹ Assumes 825,000 contributory benefit hours are worked during the 2021 Plan Year.

² Normal cost includes assumed operating expenses of \$1,000,000 as of January 1, 2020 and \$1,550,000 as of January 1, 2021.

³ Incorporates a 5-year amortization extension of the applicable charge bases effective January 1, 2009.

⁴ 2021 estimated contributions reflect expected withdrawal liability payments from previously withdrawn employers.

FULL FUNDING LIMITS				
		2020	2	021 (Estimated)
 ERISA FFL A. Interest Rate B. Liability C. Normal Cost (without expenses) D. Expected Benefit Payments E. Interest on B, C and D 	\$	7.25 % 399,268,546 740,388 (34,539,231) 27,748,601	\$	7.25 % 392,875,253 702,000 (34,398,142) 27,287,418
 F. Expected Liability (B + C + D + E) G. Min of AVA and MVA H. Credit Balance Adjusted Assets Expected Benefit Payments Expected Operating Expenses Interest on I, J, and K 	\$	393,218,304 313,036,709 0 313,036,709 (34,539,231) (966,200) 21,373,065	\$	386,466,529 319,474,447 0 319,474,447 (34,398,142) (1,497,611) 21,806,388
M. Expected Assets (I + J + K + L) N. ERISA FFL (F - M) 2. RPA '94 FFL	\$ \$	298,904,343 94,313,961	\$ \$	305,385,082 81,081,447
 A. Interest Rate B. Liability C. Normal Cost (without expenses) D. Expected Benefit Payments E. Interest on B, C and D 	\$	2.95 % 628,390,474 1,617,229 (34,592,638) 18,074,986	\$	2.43 % 651,458,800 1,741,000 (34,445,883) 15,454,238
F. Expected Liability (B + C + D + E) G. Funding Limit Factor	\$	613,490,051 90 %	\$	634,208,155 90 %
 H. Funding Limit Liability (F * G) I. AVA J. Actual/Expected Benefit Payments K. Expected Operating Expenses L. Interest on I, J, and K 	\$ \$	552,141,046 313,036,709 (34,592,638) (966,200) 21,371,129	\$ \$	570,787,340 319,474,447 (34,445,883) (1,497,611) 21,804,657
M. Expected Assets (I + J + K + L) N. RPA '94 FFL (H - M)	\$ \$	298,849,000 253,292,046	\$ \$	305,335,610 265,451,730

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (As of January 1, 2021)								
	Amorti	Amortization Period			ances			
Charges	Date Established	Initial Period	Remaining Period	Initial	Remaining	Beginning-of-Year Payment		
Plan Amendment	1/1/1980	45.00	4.00	\$ 395,897	\$ 81,719	\$ 22,619		
Plan Amendment	1/1/1981	45.00	5.00	3,609,259	924,137	211,562		
Plan Amendment	1/1/1987	35.00	1.00	4,466,400	246,687	246,687		
Plan Amendment	1/1/1988	35.00	2.00	7,521,437	837,355	433,319		
Plan Amendment	1/1/1989	35.00	3.00	6,238,198	1,042,667	372,143		
Plan Amendment	1/1/1990	35.00	4.00	1,991,358	441,682	122,268		
Plan Amendment+Act Assump	1/1/1991	35.00	5.00	3,867,632	1,062,975	243,346		
Plan Amendment	1/1/1992	35.00	6.00	2,315,769	754,790	148,790		
Plan Amendment	1/1/1993	35.00	7.00	8,009,694	3,002,727	524,040		
Plan Amendment+Act Assump	1/1/1994	35.00	8.00	5,816,782	2,452,229	386,626		
Plan Amendment	1/1/1995	35.00	9.00	3,954,934	1,842,850	266,543		
Actuarial Assumption	1/1/1996	35.00	10.00	2,334,000	1,185,758	159,236		
Plan Amendment	1/1/1996	35.00	10.00	19,722,004	10,019,456	1,345,523		
Plan Amendment	1/1/1997	35.00	11.00	12,051,000	6,601,880	831,144		
Plan Amendment	1/1/1998	35.00	12.00	12,834,000	7,513,009	893,747		
Actuarial Assumption	1/1/1998	35.00	12.00	5,651,596	3,308,430	393,572		
Actuarial Assumption	1/1/1999	35.00	13.00	500,000	310,417	35,122		
Plan Amendment	1/1/1999	35.00	13.00	21,615,699	13,419,302	1,518,376		
Plan Amendment	1/1/2000	35.00	14.00	7,937,933	5,192,614	561,942		
Actuarial Assumption	1/1/2000	35.00	14.00	4,389,753	2,871,563	310,759		
Plan Amendment	1/1/2001	35.00	15.00	12,746,807	8,738,002	908,708		
Plan Amendment	1/1/2002	35.00	16.00	2,268,072	1,621,588	162,714		
Plan Amendment	1/1/2003	35.00	17.00	2,964,980	2,201,823	213,933		
Experience Loss	1/1/2003	20.00	2.00	12,151,612	1,827,137	945,524		
Experience Loss	1/1/2004	20.00	3.00	23,109,456	5,214,343	1,861,090		

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (As of January 1, 2021) (CONTINUED)									
	Amorti	zation Peri	iod		Balances				
Charges	Date Established	Initial Period	Remaining Period		Initial		Remaining		Beginning-of-Year Payment
Experience Loss	1/1/2005	20.00	4.00	\$	12,406,469	\$	3,714,767	\$	1,028,346
Plan Amendment	1/1/2005	35.00	19.00		1,000,895		793,576		72,938
Actuarial Assumption	1/1/2005	35.00	19.00		1,063,519		843,219		77,502
Experience Loss	1/1/2006	20.00	5.00		6,485,444		2,406,273		550,865
Plan Amendment	1/1/2006	35.00	20.00		1,459,383		1,190,346		106,809
Plan Amendment	1/1/2007	35.00	21.00		1,475,698		1,235,142		108,429
Plan Amendment	1/1/2008	20.00	7.00		1,383,243		700,038		122,173
Experience Loss	1/1/2009	20.00	8.00		123,105,349		70,061,842		11,046,176
Experience Loss	1/1/2011	15.00	5.00		5,600,066		2,543,936		582,379
Experience Loss	1/1/2012	15.00	6.00		39,179,040		20,669,133		4,074,425
Experience Loss	1/1/2013	15.00	7.00		33,032,826		19,683,891		3,435,249
Experience Loss	1/1/2016	15.00	10.00		506,616		392,319		52,686
Experience Loss	1/1/2017	15.00	11.00		1,021,519		843,820		106,233
Experience Loss	1/1/2018	15.00	12.00		1,612,860		1,409,965		167,729
Experience Loss	1/1/2019	15.00	13.00		7,385,989		6,788,468		768,106
Experience Loss	1/1/2020	15.00	14.00		5,205,541		5,002,345		541,350
Total Charges						\$	220,994,220	\$	35,960,728

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (As of January 1, 2021) (CONTINUED)								
	Amortization Period			Bala	ances			
Credits	Date Established	Initial Period	Remaining Period	Initial	Remaining	Beginning-of-Year Payment		
Experience Gain	1/1/2010	15.00	4.00	\$ (27,345,881)	\$ (10,273,003)	\$ (2,843,835)		
Plan Amendment	1/1/2010	15.00	4.00	(32,045,400)	(12,038,460)	(3,332,562)		
Experience Gain	1/1/2014	15.00	8.00	(14,564,452)	(9,606,749)	(1,514,630)		
Experience Gain	1/1/2015	15.00	9.00	(8,275,002)	(5,949,798)	(860,559)		
Assumption Change	1/1/2017	15.00	11.00	(6,594,691)	(5,447,516)	(685,815)		
Plan Amendment	1/1/2019	15.00	13.00	(117,661,915)	(108,143,148)	(12,236,252)		
Experience Gain	1/1/2021	15.00	15.00	(7,298,256)	(7,298,256)	(758,982)		
Total Credits					\$ (158,756,930)	\$ (22,232,635)		

Appendix H – Additional Schedule MB Information

CURRENT LIABILITY (FOR 2021 SCHEDULE MB)							
	Counts		January 1, 2021				
A. Retirees and Beneficiaries	4,112	\$	420,706,525				
B. Vested Inactive Participants	2,558		188,675,743				
C. Active Participants							
1. Non-Vested ¹	182	\$	1,532,986				
2. Vested	283		40,543,546				
3. Sub-total (1 + 2)	465	\$	42,076,532				
D. Total Current Liability (Line 1d(2)(a)) (A + B + C3)		\$	651,458,800				
E. Market Value of Assets			340,204,649				
F. Funded Percentage Using Market Value of Assets (E / D)			52.22 %				
G. Expected Increase in Current Liability (Line $1d(2)(b))^2$		\$	1,741,000				
H. Expected Release from Current Liability (Line 1d(2)(c))			34,037,294				
I. Expected Plan Disbursements (Line 1d(3))			35,948,142				
J. Current Liability Interest Rate			2.43 %				

¹ The participant count excludes 224 Non-Vested Inactives whose liabilities are included in the Non-Vested Active liability.

² The amount reported on Line 1d(2)(b) will be adjusted on the 2021 Schedule MB to reflect actual vs expected accruals for the year.

Appendix H – Additional Schedule MB Information (Continued)

SCHEDULE MB, LINE 8b(1) - SCHEDULE OF PROJECTION OF EXPECTED BENEFIT PAYMENTS (FOR 2021 SCHEDULE MB)						
Plan Year	Expected Annual Benefit Payments					
2021	\$	34,398,143				
2022		34,651,803				
2023		34,679,989				
2024		34,691,063				
2025		34,536,252				
2026		34,357,782				
2027		34,117,050				
2028		33,672,259				
2029		33,186,432				
2030		32,617,315				

Appendix H – Additional Schedule MB Information (*Continued***)**

SCHEDULE MB, I	SCHEDULE MB, LINE 8b(2) - SCHEDULE OF ACTIVE PARTICIPANT DATA (FOR 2021 SCHEDULE MB)										
		Years Of Credited Service									
Age Group	< 1	1 - 4	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 +	Total
Under 25	0	6	1	0	0	0	0	0	0	0	7
25 - 29	0	27	3	0	0	0	0	0	0	0	30
30 - 34	0	32	7	3	0	0	0	0	0	0	42
35 - 39	0	16	10	12	3	0	0	0	0	0	41
40 - 44	0	26	10	11	4	4	0	0	0	0	55
45 - 49	0	21	11	6	8	7	1	0	0	0	54
50 - 54	0	17	5	4	6	16	5	5	1	0	59
55 - 59	0	17	8	7	9	10	6	8	1	0	66
60 - 64	0	10	8	11	4	12	5	10	4	1	65
65 - 69	0	2	7	6	4	2	5	4	0	2	32
70 and Over	0	1	0	1	3	1	1	0	0	0	7
Unknown	0	7	0	0	0	0	0	0	0	0	7
Total	0	182	70	61	41	52	23	27	6	3	465

Appendix I – Maximum Deductible Contribution

MAXIMUM DEDUCTIBLE CONTRIBUTION						
		n Year Ending ember 31, 2021				
A. Normal Cost	\$	2,199,000				
B. 10-Year Amortization of Unfunded Accrued Liability		9,857,081				
C. Interest to End of Plan Year		874,066				
D. Preliminary Max (A + B + C)	\$	12,930,147				
E. Full Funding Limitation						
1. ERISA	\$	81,081,447				
2. RPA Full Funding Limit Override		265,451,730				
3. Greater of E1 or E2		265,451,730				
F. Regular Maximum Deductible Contribution (lesser of D and E3)		12,930,147				
G. Minimum Required Contribution, End of Year		29,054,678				
H. 140% of Current Liability Basis						
1. Current Liability, Projected to End of Year	\$	634,208,155				
2. Actuarial Value of Assets Projected to End of Year		305,335,610				
3. Excess of 140% of Current Liability over Actuarial Value of Assets at End of Year (140% x H1 - H2)	\$	582,555,807				
I. Maximum Deductible Contribution (greater of F, G and H3)	\$	582,555,807				

Appendix I – Maximum Deductible Contribution (*Continued***)**

FULL FUNDING LIMITS		
		Year Ending mber 31, 2021
 ERISA FFL A. Interest Rate B. Liability C. Normal Cost (without expenses) D. Expected Benefit Payments E. Interest on B, C and D 	\$	7.25 % 392,875,253 702,000 (34,398,142) 27,287,418
 F. Expected Liability (B + C + D + E) G. Min of AVA and MVA H. Credit Balance I. Adjusted Assets J. Expected Benefit Payments K. Expected Operating Expenses L. Interest on I, J, and K 	\$	386,466,529 319,474,447 N/A 319,474,447 (34,398,142) (1,497,611) 21,806,388
M. Expected Assets (I + J + K + L)) N. ERISA FFL (F - M) 2. RPA '94 FFL	\$ \$	305,385,082 81,081,447
 A. Interest Rate B. Liability C. Normal Cost (without expenses) D. Expected Benefit Payments E. Interest on B, C and D 	\$	2.43 % 651,458,800 1,741,000 (34,445,883) 15,454,238
F. Expected Liability (B + C + D + E) G. Funding Limit Factor H. Funding Limit Liability (F * G)	\$	634,208,155 90 % 570,787,340
I. AVA J. Expected Benefit Payments K. Expected Operating Expenses L. Interest on I, J, and K	\$	319,474,447 (34,445,883) (1,497,611) 21,804,657
M. Expected Assets (I + J + K + L)) N. RPA '94 FFL (H - M)	\$ \$	305,335,610 265,451,730

Appendix J – Auditor Information (FASB ASC 960)

	2019	2020
Actuarial Present Value of Accumulated Plan Benefits at Beginning of Year (January 1)	\$ 423,284,581	\$ 412,595,449
ncrease/(Decrease) during the Year Attributable to:		
Benefits Accumulated and Actuarial Experience	\$ 2,134,011	\$ (262,300)
Plan Amendments	0	0
Actuarial Assumption Changes	(6,683,442)	0
Increase for Interest	28,932,225	28,652,277
Benefits and Expenses Paid	 (35,071,926)	 (34,783,270)
Net Increase/(Decrease)	\$ (10,689,132)	\$ (6,393,293)
Actuarial Present Value of Accumulated Plan Benefits at End of Year (December 31)	\$ 412,595,449	\$ 406,202,156

ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS							
		2019		2020			
Actuarial Present Value of Accrued Benefits							
Vested Benefits							
Participants Currently Receiving Benefits	\$	300,735,373	\$	295,422,901			
Other Participants		111,053,533		109,816,282			
Total Vested Benefits	\$	411,788,906	\$	405,239,183			
Non-Vested Benefits		806,543		962,973			
Actuarial Present Value of Accumulated Plan Benefits at End of Year (December 31)	\$	412,595,449	\$	406,202,156			

In compliance with ASC 960, the Actuarial Present Value of Accumulated Plan Benefits include the present value of assumed operating expenses as of each valuation date and has been proportionately allocated to each participant liability group: \$13,326,903 (\$1,000,000 per year, \$966,200 payable as of the beginning of year) as of December 31, 2019 and December 31, 2020. The change in the current year expense assumption will be reflected in the Actuarial Present Value of Accumulated Plan Benefits as of December 31, 2021.

Appendix K – Withdrawal Liability Information

DETERMINATION OF VESTED BENEFIT LIABILITIES FOR WITHDRAWAL LIABILITY PURPOSES							
		December 31, 2019		December 31, 2020			
1. Vested Benefit Liabilities Earned to Date	\$	398,488,054	\$	391,943,874			
2. PBGC 10-3 Base ¹		12,955,191		11,155,487			
3. MPRA Suspension Base ²		117,842,876		117,842,876			
4. Vested Benefit Liabilities (1 + 2 + 3)	\$	529,286,121	\$	520,942,237			

¹ PBGC Technical Update 10-3 describes the simplified method for plans in the Red Zone to disregard certain adjustable benefits in determining withdrawal liability. This involves the establishment of a base equal to the reduction in these adjustable benefits, which is then amortized over 15 years. The PBGC 10-3 base is the outstanding balance as of the applicable date.

² The outstanding balance of the MPRA Suspension Base as of December 31, 2019 was updated from the prior report to reflect final regulations issued in January 2021 relating to application of the MPRA benefit suspension liability.

Appendix K – Withdrawal Liability Information (*Continued***)**

PBGC 10-3 Base and MPRA Benefit Suspension Base							
	Outstanding Balance as of						
Base	December 31, 2019	December 31, 2020					
MPRA Suspension Base ¹	117,842,876	117,842,876					
PBGC 10-3 Base ²	12,955,191	11,155,487					
Total	\$ 130,798,067	\$ 128,998,363					

¹ Outstanding balance of the benefit reductions of 30% on all accrued benefits earned through September 30, 2018, subject to the MPRA restrictions on benefit suspensions for older participants, disabled participants, and those with small benefits that were implemented effective October 1, 2018. The outstanding balance of the MPRA Suspension Base as of December 31, 2019 was updated from the prior report to reflect final regulations issued in January 2021 relating to application of the MPRA benefit suspension liability.

² PBGC Technical Update 10-3 describes the simplified method for plans in the Red Zone to disregard certain adjustable benefits in determining withdrawal liability. This involves the establishment of a base equal to the reduction in these adjustable benefits, which is then amortized over 15 years. The PBGC 10-3 base is the outstanding balance as of the applicable date.

		2020	2	2021 (Estimated) ¹
1. Charges				
A. Funding Deficiency on January 1	\$	75,906,975	\$	82,983,947
B. Normal Cost (Beginning of Year) ²		1,706,588		2,199,000
C. Amortization Charges		33,928,944		32,697,512
D. Interest on A, B and C		8,086,832		8,546,333
E. Subtotal Charges (A + B + C +D)		119,629,339		126,426,792
2. Credits				
A. Credit Balance on January 1	\$	0	\$	C
B. Employer Contributions for Year ³		13,138,624		10,526,000
C. Amortization Credits		21,473,653		22,232,635
D. Interest on A, B and C		2,033,115		1,993,434
E. Subtotal Credits (A + B + C + D)	\$	36,645,392	\$	34,752,069
3. Funding Deficiency on December 31 (2E - 1E)	\$	(82,983,947)	\$	(91,674,723
4. Minimum Required Contribution (Before Credit Balance)	\$	96,598,846	\$	102,582,291
5. Minimum Required Contribution (After Credit Balance)		96,598,846	·	102,582,291
6. ERISA FFL (Accrued Liability FFL)	\$	94,313,961	\$	81,081,447
7. "RPA '94" Override (90% Current Liability FFL)	Ţ	253,292,046	T	265,451,730

¹ This is the Funding Standard Account used to determine if the Plan falls into the Red Zone.

² Normal cost includes assumed operating expenses of \$996,200 as of the beginning of the 2020 Plan Year (\$1,000,000 paid in monthly installments) and operating expenses of \$1,497,600 as of the beginning of the 2021 Plan Year (\$1,550,000 paid in monthly installments).

³ 2021 estimated contributions reflect withdrawal liability payments for previously withdrawn employers.

FULL FUNDING LIMITS (No Amortization Extension)		
	2020	2021 (Estimated)
1. ERISA FFL		
A. Interest Rate	7.25 %	7.25 %
B. Liability	\$ 399,268,546	\$ 392,875,253
C. Normal Cost (without expenses)	740,388	702,000
D. Expected Benefit Payments	(34,539,231)	(34,398,142)
E. Interest on B, C and D	 27,748,601	 27,287,418
F. Expected Liability (B + C + D + E)	\$ 393,218,304	\$ 386,466,529
G. Min of AVA and MVA	313,036,709	319,474,447
H. Credit Balance	0	0
I. Adjusted Assets	313,036,709	319,474,447
J. Expected Benefit Payments	(34,539,231)	(34,398,142)
K. Expected Operating Expenses	(966,200)	(1,497,611)
L. Interest on I, J, and K	 21,373,065	 21,806,388
M. Expected Assets (I + J + K + L))	\$ 298,904,343	\$ 305,385,082
N. ERISA FFL (F - M)	\$ 94,313,961	\$ 81,081,447
2. RPA '94 FFL		
A. Interest Rate	2.95 %	2.43 %
B. Liability	\$ 628,390,474	\$ 651,458,800
C. Normal Cost (without expenses)	1,617,229	1,741,000
D. Expected Benefit Payments	(34,592,638)	(34,445,883)
E. Interest on B, C and D	18,074,986	15,454,238
F. Expected Liability (B + C + D + E)	\$ 613,490,051	\$ 634,208,155
G. Funding Limit Factor	90 %	90 %
H. Funding Limit Liability (F * G)	\$ 552,141,046	\$ 570,787,340
I. AVA	\$ 313,036,709	\$ 319,474,447
J. Expected Benefit Payments	(34,592,638)	(34,445,883)
K. Expected Operating Expenses	(966,200)	(1,497,611)
L. Interest on I, J, and K	 21,371,129	 21,804,657
M. Expected Assets (I + J + K + L))	\$ 298,849,000	\$ 305,335,610
N. RPA '94 FFL (H - M)	\$ 253,292,046	\$ 265,451,730

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (No Amortization Extension) (As of January 1, 2021)						
	Amorti	zation Peri	iod	Bala		
Charges	Date Established	Initial Period	Remaining Period	Initial	Remaining	Beginning-of-Year Payment
Plan Amendment	1/1/1992	30.00	1.00	\$ 2,315,769	\$ 178,390	\$ 178,390
Plan Amendment	1/1/1993	30.00	2.00	8,009,694	1,192,331	617,024
Plan Amendment+Act Assump	1/1/1994	30.00	3.00	5,816,782	1,255,462	448,093
Plan Amendment	1/1/1995	30.00	4.00	3,954,934	1,100,572	304,667
Actuarial Assumption	1/1/1996	30.00	5.00	2,334,000	785,396	179,799
Plan Amendment	1/1/1996	30.00	5.00	19,722,004	6,636,472	1,519,277
Plan Amendment	1/1/1997	30.00	6.00	12,051,000	4,709,398	928,344
Plan Amendment	1/1/1998	30.00	7.00	12,834,000	5,665,020	988,662
Actuarial Assumption	1/1/1998	30.00	7.00	5,651,596	2,494,643	435,369
Actuarial Assumption	1/1/1999	30.00	8.00	500,000	244,307	38,517
Plan Amendment	1/1/1999	30.00	8.00	21,615,699	10,561,471	1,665,157
Plan Amendment	1/1/2000	30.00	9.00	7,937,933	4,227,814	611,495
Actuarial Assumption	1/1/2000	30.00	9.00	4,389,753	2,338,019	338,162
Plan Amendment	1/1/2001	30.00	10.00	12,746,807	7,312,071	981,945
Plan Amendment	1/1/2002	30.00	11.00	2,268,072	1,387,829	174,720
Plan Amendment	1/1/2003	30.00	12.00	2,964,980	1,920,021	228,407
Plan Amendment	1/1/2005	30.00	14.00	1,000,895	712,467	77,104
Actuarial Assumption	1/1/2005	30.00	14.00	1,063,519	757,043	81,928
Plan Amendment	1/1/2006	30.00	15.00	1,459,383	1,081,038	112,423
Plan Amendment	1/1/2007	30.00	16.00	1,475,698	1,132,904	113,680
Plan Amendment	1/1/2008	15.00	2.00	1,383,243	277,983	143,850
Experience Loss	1/1/2009	15.00	3.00	123,105,349	35,869,257	12,802,342
Experience Loss	1/1/2011	15.00	5.00	5,600,066	2,543,935	582,379
Experience Loss	1/1/2012	15.00	6.00	39,179,040	20,669,139	4,074,425
Experience Loss	1/1/2013	15.00	7.00	33,032,826	19,683,890	3,435,249

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (No Amortization Extension) (As of January 1, 2021) (CONTINUED)							
	Amortization Period		Bala				
Charges	Date Established	Initial Period	Remaining Period	Initial	Remaining	Beginning-of-Year Payment	
Experience Loss	1/1/2016	15.00	10.00	\$ 506,616	\$ 392,319	\$ 52,686	
Experience Loss	1/1/2017	15.00	11.00	1,021,519	843,820	106,233	
Experience Loss	1/1/2018	15.00	12.00	1,612,860	1,409,965	167,729	
Experience Loss	1/1/2019	15.00	13.00	7,385,989	6,788,468	768,106	
Experience Loss	1/1/2020	15.00	14.00	5,205,541	5,002,345	541,350	
Total Charges					\$ 149,173,789	\$ 32,697,512	

Credits	Amorti	Amortization Period			Balances		
	Date Established	Initial Period	Remaining Period	Initial	Remaining	Beginning-of-Year Payment	
Experience Gain	1/1/2010	15.00	4.00	\$ (27,345,881)	\$ (10,273,003)	\$ (2,843,835)	
Plan Amendment	1/1/2010	15.00	4.00	(32,045,400)	(12,038,460)	(3,332,562)	
Experience Gain	1/1/2014	15.00	8.00	(14,564,452)	(9,606,749)	(1,514,630)	
Experience Gain	1/1/2015	15.00	9.00	(8,275,002)	(5,949,798)	(860,559)	
Assumption Change	1/1/2017	15.00	11.00	(6,594,691)	(5,447,516)	(685,815)	
Plan Amendment	1/1/2019	15.00	13.00	(117,661,915)	(108,143,148)	(12,236,252)	
Experience Gain	1/1/2021	15.00	15.00	(7,298,256)	(7,298,256)	(758,982)	
Total Credits					\$ (158,756,930)	\$ (22,232,635)	

