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Western States Office & Professional Employees Plan

Actuarial Valuation

As of January 1, 2018

November 2018

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Actuarial Certification

November 13, 2018

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, 2018 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 2017 Plan Year
- 4. Unfunded vested benefits for withdrawal liability purposes
- 5. FASB ASC 960 required information for auditors
- 6. Information required for governmental agencies

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.

These results are applicable for the Plan Year ending December 31, 2018. 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)

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

- 1. We have completed this actuarial valuation of the Plan as of January 1, 2018 in accordance with generally accepted actuarial principles and practices, including Actuarial Standards of Practice (ASOP) Nos. 4, 23, 27, 35, 41, 44, and 51.
- 2. 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, and 51.
- 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.

Subsequent to the January 1, 2018 measurement date for the results presented in this actuarial valuation report, the Plan received approval to suspend benefits pursuant to the Multiemployer Pension Reform Act of 2014 ("MPRA"). Accrued benefits earned through September 30, 2018 were reduced by 30% for all participants (subject to the legislative restrictions set forth in the MPRA rules) effective October 1, 2018. The impact of these benefit suspensions has not been reflected in the results presented in this report.

We, Paul Graf, Brian Harper, and Winnie Ngan, 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.

Certified by:

ASA, EA, MAAA

Paul Graf

Enrolled Actuary No. 17-05627

Reviewed by

EA. MAAA

Brian Harper

Enrolled Actuary No. 17-06435

Prepared by:

ASA. MAAA

Winnie Ngan

cc: Kim Gould

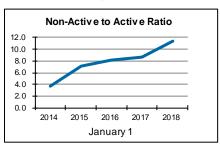
Joe Reinhart, Esq.

Alex Miller

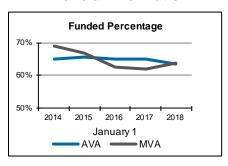
Valuation Highlights

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

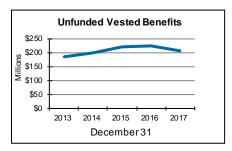
Participant Data



Financial Information



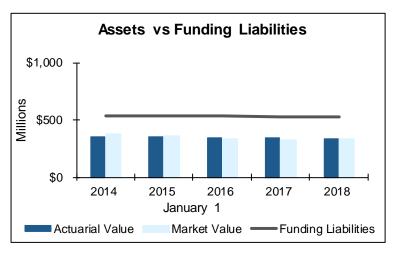
Unfunded Vested Benefits

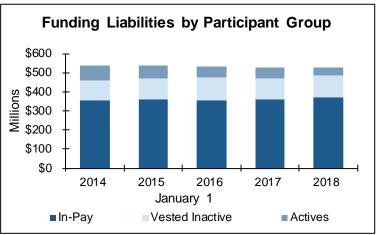


| | | January 1, 2017 | | January 1, 2018 | Change |
|--|----|----------------------|----|----------------------|--------------------|
| Actives | | 809 | | 626 | (183) |
| Non-Vested Inactives ¹ | | 359 | | 376 | 17 |
| Vested Inactives | | 2,827 | | 2,798 | (29) |
| In Pay Status² | | 3,845 | | 3,970 | 125 |
| Total Participants | | 7,840 | | 7,770 | (70) |
| Market Value of Assets (MVA) | \$ | 326,919,954 | \$ | 335,048,313 | \$ 8,128,359 |
| Return on MVA (Prior Year) | | 6.44 % | | 13.04 % | 6.60 % |
| Actuarial Value of Assets (AVA) ³ | \$ | 342,812,133 | \$ | 333,355,231 | \$ (9,456,902) |
| Return on AVA (Prior Year) | | 6.84 % | | 7.02 % | 0.18 % |
| Actuarial Accrued Liability ³ | \$ | 527,455,968 | \$ | 525,324,100 | \$ (2,131,868) |
| Unfunded Accrued Liability (MVA) | | 200,536,014 | | 190,275,787 | (10,260,227) |
| Unfunded Accrued Liability (AVA) | | 184,643,835 | | 191,968,869 | 7,325,034 |
| MVA Funded Percentage | | 62.0 % | | 63.8 % | 1.8 % |
| AVA Funded Percentage | | 65.0 % | | 63.5 % | (1.5)% |
| Contributions (Prior Year) | \$ | 11,250,910 | \$ | 9,588,489 | \$ (1,662,421) |
| Benefit Payments (Prior Year) | | 39,153,722 | | 40,137,025 | 983,303 |
| Expenses (Prior Year) ⁴ | | N/A | | 1,847,596 | 1,847,596 |
| Present Value of Vested Benefits | \$ | 550,975,753 | \$ | 540,855,185 | \$ (10,120,569) |
| Unfunded Vested Benefits ⁵ | | 224,055,799 | | 205,806,872 | (18,248,928) |
| Zone Certification Status | Cr | itical and Declining | Cr | itical and Declining | |
| Zone Status Funded Percentage | | 65.0 % | | 63.5 % | (1.5)% |
| Credit Balance | \$ | 35,343,447 | \$ | 16,828,984 | \$ (18,514,463) |

- ¹ These are non-vested inactive participants who have not incurred a permanent break-in-service.
- ² Includes 18 Alternate Payees as of January 1, 2017 and 20 Alternate Payees as of January 1, 2018.
- ³ 2017 Plan Year asset loss of \$1.2 million and liability loss of \$0.4 million as of January 1, 2018.
- ⁴ Prior to January 1, 2017, the assumed investment return was net of investment and operating expenses, therefore operating expenses are shown as N/A for 2016.
- Unfunded Vested Benefits are based on the Market Value of Assets and include the present value of adjustable benefits under PBGC Technical Update 10-3.

Section I - Assets and Liabilities





| ASSETS | | |
|---|-----|-------------|
| A. Cash and Cash Equivalents | \$ | 4,764,358 |
| B. Marketable Securities | | 330,172,090 |
| C. Net Receivables, Payables and Prepaid Expenses | l . | 111,865 |
| D. Market Value of Assets (A + B + C) | \$ | 335,048,313 |
| E. Actuarial Adjustment (Appendix D) | _ | (1,693,082) |
| F. Total Assets at Actuarial Value (D + E) | \$ | 333,355,231 |
| LIABILITIES | | |
| Funding | | |
| G. Actives | \$ | 37,589,223 |
| H. Vested Inactives | | 116,854,992 |
| I. In Pay Status | l _ | 370,879,885 |
| J. Actuarial Accrued Liability (G + H + I) | \$ | 525,324,100 |
| K. Unfunded Accrued Liability (J - F) | \$ | 191,968,869 |
| PPA (Statutory) | | |
| L. Actives | \$ | 37,589,223 |
| M. Vested Inactives | | 116,854,992 |
| N. In Pay Status | | 370,879,885 |
| O. Actuarial Accrued Liability (L + M + N) | \$ | 525,324,100 |
| P. Zone Status Funded Percentage (F / O) | | 63.5 % |

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, 2018.

ASSETS

The total Market Value of Assets as of January 1, 2018 is \$335,048,313. Information regarding assets was taken from the final audit report provided by Vavrinek, Trine, Day & Co., LLP.

We have utilized an asset valuation method that recognizes net investment income on Trust assets that is more or less than 7.25% per year over a five-year period. The value of Trust assets based on this method is \$333,355,231, which represents 99.5% 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 2017 Plan Year but received after December 31, 2017 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 \$370,879,885 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 \$525,324,100.

Section I - Assets and Liabilities (Continued)

UNFUNDED ACCRUED LIABILITIES

The liabilities of the Plan exceed the Actuarial Value of Assets by \$191,968,869. 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 \$190,275,787.

As shown in Section III, the current excess of contributions over benefit accruals and operating expenses is about \$9.8 million and is not sufficient to pay down the Unfunded Accrued Liability assuming payment of all outstanding withdrawal liability on both an Actuarial Value of Assets basis and a Market Value of Assets basis 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. Following approval from the Treasury and a participant vote, benefit reductions of 30% on benefits earned through September 30, 2018 were implemented effective October 1, 2018.

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

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, 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, 2018. The following exhibit develops the net actuarial gain or loss for the 2017 Plan Year:

| NET ACTUARIAL GAIN/(LOSS) | | |
|---|----|-------------|
| A. Unfunded Accrued Liability on January 1, 2017 | \$ | 184,643,835 |
| B. Normal Cost (Including Operating Expenses) | | 2,108,688 |
| C. Contributions for 2017 | | (9,588,489) |
| D. Interest on A, B and C | | 13,191,975 |
| E. Expected Unfunded Accrued Liability on January 1, 2018 (A + B + C + D) | \$ | 190,356,009 |
| F. Actual Unfunded Accrued Liability on January 1, 2018 | _ | 191,968,869 |
| G. Net Actuarial Gain/(Loss) (E - F) | \$ | (1,612,860) |

Summary of Gain/(Loss) by Source

The total net actuarial gain or loss for the 2017 Plan Year is allocated among asset and liability components as shown below:

| | G | Gain/(Loss) |
|-------------------------------|----|-------------|
| Asset Experience | | |
| Investment | \$ | (740,290) |
| Operating Expenses | | (463,821) |
| Total Asset Loss | \$ | (1,204,111) |
| Liability Experience | | |
| Mortality | | 306,647 |
| Termination | | (997,214) |
| Retirement | | 682,402 |
| Disability | | (64,923) |
| Miscellaneous | | (335,661) |
| Total Liability Loss | \$ | (408,749) |
| Net Actuarial Experience Loss | \$ | (1,612,860) |

ASSET EXPERIENCE

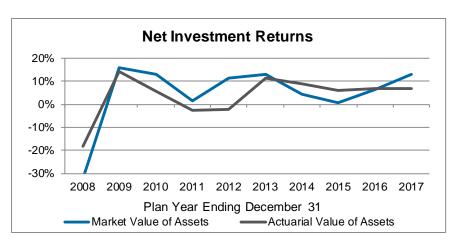
Net Investment Return

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 2017 Plan Year was 7.02% and resulted in an asset **loss** of **\$740,290**. Appendix E shows the details of the actual net investment income calculation.

| | Dollar Amount | | Return on AVA |
|-----------------------------------|---------------|-------------|------------------|
| A. Gross Investment Income | \$ | 24,575,400 | 7.52 % |
| B. Investment Expenses | | (1,636,170) | (0.50)% |
| C. Net Investment Income (A + B) | \$ | 22,939,230 | 7.02 % |
| D. Expected Net Investment Income | | 23,679,520 | 7.25 % |
| E. Investment Loss (C - D) | \$ | (740,290) | (0.23)% |

| Plan Year Ending | Net Investment Return | | | | | |
|------------------------------|-----------------------|--------------|--|--|--|--|
| December 31 | Actuarial Value | Market Value | | | | |
| 2013 | 11.24 % | 12.97 % | | | | |
| 2014 | 9.07 % | 4.47 % | | | | |
| 2015 | 6.22 % | 0.63 % | | | | |
| 2016 | 6.84 % | 6.44 % | | | | |
| 2017 | 7.02 % | 13.04 % | | | | |
| 5-Year Average ¹ | 8.06 % | 7.40 % | | | | |
| 10-Year Average ¹ | 3.33 % | 3.72 % | | | | |

Geometric average return.



Operating Expenses

The assumed operating expenses are \$1,400,000, payable mid-year. The actual operating expenses for the year were \$1,847,596, resulting in a **loss** on expenses of **\$463,821**, with interest to the end of the 2017 Plan Year.

| Plan Year | Gain/(Loss) |
|--------------|-----------------|
| 2017 | \$ (463,821) |
| 1-Year Total | \$ (463,821) |

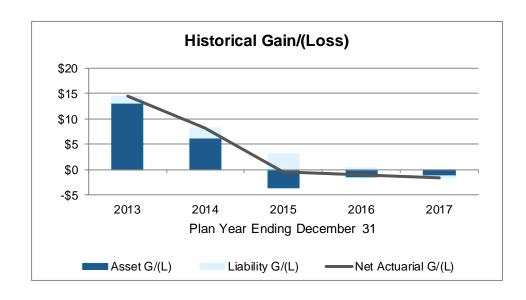
Liability Experience

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 are shown.

| Plan | Plan Asset | | | Liability | | Net Actuarial | |
|--------------|-------------|-------------|-------------|-----------|-------------|---------------|--|
| Year | Gain/(Loss) | | Gain/(Loss) | | Gain/(Loss) | | |
| 2013 | \$ | 13,070,644 | \$ | 1,493,808 | \$ | 14,564,452 | |
| 2014 | | 6,155,370 | | 2,119,632 | | 8,275,002 | |
| 2015 | | (3,503,794) | | 2,997,178 | | (506,616) | |
| 2016 | | (1,353,294) | | 331,775 | | (1,021,519) | |
| 2017 | | (1,204,111) | | (408,749) | | (1,612,860) | |
| 5-Year Total | \$ | 13,164,815 | \$ | 6,533,644 | \$ | 19,698,459 | |



Section III - Employer Contributions and Costs

PROJECTION FOR 2018 PLAN YEAR

Employer contributions and costs for the 2018 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 2017 adjusted for 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 for Active Participants | \$ 5,135,000 | \$ 5.14 |
| B. Withdrawal Liability Payments | 6,820,000 | N/A |
| C. Normal Cost for Benefit Accruals | 763,000 | 0.76 |
| D. Estimated Operational Expenses | 1,400,000 | N/A |
| E. Available for Funding ¹ (A + B - C - D) | \$ 9,792,000 | |

Mid-year.

The projected Employer contributions exceed the estimated cost of benefits to be earned plus operating expenses during 2018 by about \$9.8 million, but the interest on the current Unfunded Accrued Liability at 7.25% is \$13.9 million. Based on asset and liability measures on the valuation date, this excess of about \$9.8 million is not sufficient to pay down the Unfunded Accrued Liability on both an Actuarial Value of Assets basis and a Market Value of Assets basis assuming all future actuarial assumptions are realized.

| | Actuarial Value Basis | Market Value Basis |
|---|--------------------------|-----------------------|
| Unfunded Accrued Liability | \$ 191,968,869 | \$ 190,275,787 |
| Amount Available for Funding ³ | 9,461,035 | 9,461,035 |
| Period to Pay off UAL | Cannot Pay Off | Cannot Pay Off |

Beginning of year.

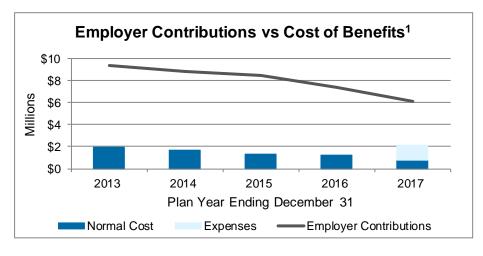
Section III - Employer Contributions and Costs (Continued)

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 and as of January 1, 2018, the PPA Certification indicated that the Plan was projected to become insolvent during the 2036 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.

HISTORICAL

Over time, Employer contributions have exceeded the cost of benefits, however, the excess contributions have not been sufficient to reduce the Unfunded Accrued Liability.



Contributions do not include withdrawal liability payments.

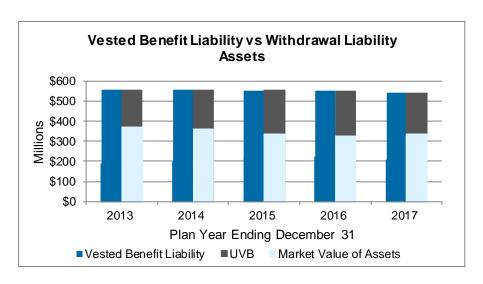
Section IV - Withdrawal Liability

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). 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. Please refer to Appendix K for a development of the Vested Benefit Liabilities. The resulting UVB as of December 31, 2017 is as follows:

| | Dece | mber 31, 2017 |
|--|------|---------------|
| A. Vested Benefit Liabilities Earned to Date | \$ | 540,855,185 |
| B. Market Value of Assets | | 335,048,313 |
| C. Unfunded Vested Benefits (A - B, not less than \$0) | \$ | 205,806,872 |

A positive Unfunded Vested Benefits value means that Employers who withdraw in the 2018 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 future 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 that 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 future 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 comprised of the following key risk factors:

Investment risk is the potential that investment returns will be different from expected. The interest discount rate of the Plan has been set according to our long-term outlook on what the Plan might receive based on the current investment policy. The Plan faces investment risk when the assets return less than the assumed rate. The more mature the Plan is, the higher the investment risk will be.

- Longevity and other demographic risk is the potential that 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 is following expected experience. Section II and Appendix D can be reviewed for current and historical demographic experience in order to help guide future expectations. Of utmost importance demographically is longevity risk, which is the potential that mortality is different from expected. If participants live longer than what is expected through the mortality assumption, the liabilities will be understated and the future funding of the Plan will be lower than expected.
- 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. 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 20 years can be reviewed under Appendix F to help understand the role of contribution risk historically and to help evaluate this risk prospectively.

Section V - Risk Assessment (Continued)

All plans will face longevity and other demographic risk 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 cycle(s) 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 risk for the stakeholders. The primary risks above can be analyzed by looking at statistics related to the Plan's level of maturity.

| PLAN MATURITY AND RISK MEASUREMENTS | | | | | | | | |
|--|-----------------|-----------------|----------|--|--|--|--|--|
| | January 1, 2017 | January 1, 2018 | Change | | | | | |
| Non-Active to Active Ratio | 8.22 | 10.78 | 2.56 | | | | | |
| Retired Life Actuarial Accrued Liability to Total Actuarial Accrued Liability Ratio | 0.68 | 0.71 | 0.02 | | | | | |
| Net Cash Flow as a % of MVA | (8.5)% | (9.7)% | (1.2)% | | | | | |
| One -Year Contribution Increase to Fund 1% Market Return Shortfall | \$ 3.2 million | \$ 3.1 million | \$ (0.1) | | | | | |
| MVA Funded Percentage | 62.0% | 63.8% | 1.8 % | | | | | |
| Current Liability Funded Percentage | 39.8% | 39.3% | (0.5)% | | | | | |

Based on the Plan Maturity and Risk Measurements shown above, the Plan is considered to be very mature. As such, the Plan is more reliant on investment income to pay pension benefits than on contributions for active hours worked. Thus, the Plan is more likely to experience funding issues if investment returns fall short of the 7.25% assumed return.

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.

No other changes to Plan provisions, valuation methodology, and assumptions have been made since the prior valuation as of January 1, 2017.

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 Determination of Vested Benefit Liabilities for Withdrawal Liability Purposes

Appendix L Funding Standard Account (No Amortization Extension)

Appendix A - Actuarial Methods and Assumptions

| METHODOLOGY: | |
|----------------------------|---|
| Asset Valuation Method | 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 | 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. 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 and FASB ASC 960, 7.25% for withdrawal liability, and 2.98% 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 run 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 \$1,400,000 paid in monthly installments (\$1,352,681 at beginning of year). |
| 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: 2018 static mortality tables provided in IRC Regulations Section 1.430(h)(3)-1(e), as prescribed by IRS Notice 2017-60. (Prior to January 1, 2018: RP-2000 Mortality Tables (static, separate for annuitants and non-annuitants), projected forward to the valuation year plus seven years for annuitants and 15 years for non-annuitants, as prescribed by IRS regulations.) |
| Mortality Improvement | The mortality assumption has been updated to reflect full 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 | assumed to retire based on the following rate table: |
| | <u>Age</u> | Rate of Retirement |
| | 55 | 20% |
| | 56 | 15% |
| | 57-59 | 12% |
| | 60 | 15% |
| | 61 | 20% |
| | 62 | 40% |
| | 63-70 | 35% |
| | 71+ | 100% |
| | Vested inactive particip | pants are assumed to retire based on the following rate table: |
| | <u>Age</u> | Rate of Retirement |
| | 55 | 15% |
| | 56-61 | 5% |
| | 62 | 18% |
| | 63-64 | 3% |
| | 65+ | 100% |
| Disability Rates | 1952 Society of Actuar | ries Table, Period 2, Benefit 5. |
| Form of Benefit | | ay status, 55% of participants are assumed to elect a Life Annuity and 45% of participants are % Joint and Survivor Annuity. |
| Marital Status | | ale participants and 75% of non-retired female participants are assumed to be married. Females e year younger than their spouses. |
| Active Participant | Worked at least 200 ho | ours in covered employment. |
| Future Employment | Each active participant | t is assumed to work the same amount of hours worked in the prior plan year. |

Appendix A - Actuarial Methods and Assumptions (Continued)

| ASSUMPTIONS: | |
|-------------------------------|---|
| 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 3.05% to 2.98% due to a change in the allowable interest rate range, and the current liability mortality table was updated as required. |
| | Accruing and supplemental/surcharge contributions for 5 employers known to have withdrawn during 2018 have been removed from future expected contributions and costs, and quarterly withdrawal liability payments have been added to future expected contributions. |

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. The principal provisions of the Plan as of January 1, 2018 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 | |
| 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 the greater of (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 | % 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.

Appendix C - Participant Information

| PARTICIPANT STATISTICS | | | | | | | |
|----------------------------|----|----------------|----|-----------------|----|--------|----------------|
| | Ja | anuary 1, 2017 | J | lanuary 1, 2018 | | Change | Percent Change |
| Actives: | | | | | | | |
| Number | | 809 | | 626 | | (183) | (22.6)% |
| Averages: Age | | 48.6 | | 47.7 | | (0.9) | (1.9)% |
| Years of Credited Service | | 12.5 | | 11.6 | | (0.9) | (7.2)% |
| Hours | | 1,628 | | 1,649 | | 21 | 1.3 % |
| Non-Vested Inactives | | | | | | | |
| Number Averages: | | 359 | | 376 | | 17 | 4.7 % |
| Age | | 41.4 | | 41.6 | | 0.2 | 0.5 % |
| Years of Credited Service | | 2.1 | | 2.1 | • | 0.0 | 0.0 % |
| Accrued Benefit | \$ | 51 | \$ | 48 | \$ | (3) | (5.9)% |
| Vested Inactives: | | | | | | | |
| Number Averages: | | 2,827 | | 2,798 | | (29) | (1.0)% |
| Age | | 52.2 | | 52.6 | | 0.4 | 0.8 % |
| Years of Credited Service | | 11.8 | Φ. | 12.0 | Φ. | 0.2 | 1.7 % |
| Vested Accrued Benefit | \$ | 562 | \$ | 580 | \$ | 18 | 3.2 % |
| In Pay Status: | | | | | | | |
| Number: | | | | | | | |
| Healthy Retirees | | 3,512 | | 3,622 | | 110 | 3.1 % |
| Disabled Retirees | | 107 | | 101 | | (6) | (5.6)% |
| Beneficiaries ¹ | | 226 | | 247 | | 21_ | 9.3 % |
| Total Averages: | | 3,845 | | 3,970 | | 125 | 3.3 % |
| Age | _ | 72.3 | | 72.3 | | 0.0 | 0.0 % |
| Monthly Benefit | \$ | 860 | \$ | 858 | \$ | (2) | (0.2)% |

 $^{^{\}rm 1}$ $\,$ $\,$ Includes 18 Alternate Payees as of January 1, 2017 and 20 Alternate Payees as of January 1, 2018.

Appendix C - Participant Information (Continued)

| PARTICIPANT RECONCILIATION | ARTICIPANT RECONCILIATION | | | | | | | | | |
|----------------------------------|---------------------------|-------------------------|---------------------|---------------|-------|--|--|--|--|--|
| | Actives | Non-Vested Inactives | Vested Inactives | In Pay Status | Total | | | | | |
| Total as of January 1, 2017 | 809 | 359 | 2,827 | 3,845 | 7,840 | | | | | |
| New Entrants | 83 | 0 | 0 | 0 | 83 | | | | | |
| Vested Terminations | (152) | 0 | 152 | 0 | 0 | | | | | |
| Non-Vested Terminations | (76) | 76 | 0 | 0 | 0 | | | | | |
| Returned to Work | 3 | 0 | (3) | 0 | 0 | | | | | |
| Healthy Retirements ¹ | (41) | (2) | (171) | 214 | 0 | | | | | |
| Disabled Retirements | 0 | 0 | 0 | 0 | 0 | | | | | |
| Deaths in Year | 0 | 0 | (8) | (114) | (122) | | | | | |
| New Beneficiaries | 0 | 0 0 | | 26 | 26 | | | | | |
| New Alternate Payees | 0 | 0 | 0 | 2 | 2 | | | | | |
| Lump Sum | 0 | 0 | (1) | 0 | (1) | | | | | |
| Permanent Break in Service | 0 | (55) | 0 | 0 | (55) | | | | | |
| Data Corrections | 0 | (2) | 2 | (3) | (3) | | | | | |
| Net Change | (183) | 17 | (29) | 125 | (70) | | | | | |
| Total as of January 1, 2018 | 626 | 376 | 2,798 | 3,970 | 7,770 | | | | | |

Includes 2 new retirements from non-vested inactives due to data correction.

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 | 13 | 1 | 14 | 4 | 0 | 4 | | |
| 25 - 29 | 25 | 7 | 32 | 44 | 6 | 50 | | |
| 30 - 34 | 23 | 28 | 51 | 82 | 57 | 139 | | |
| 35 - 39 | 49 | 44 | 93 | 68 | 143 | 211 | | |
| 40 - 44 | 23 | 43 | 66 | 41 | 258 | 299 | | |
| 45 - 49 | 13 | 62 | 75 | 40 | 474 | 514 | | |
| 50 - 54 | 17 | 65 | 82 | 27 | 604 | 631 | | |
| 55 - 59 | 10 | 79 | 89 | 41 | 646 | 687 | | |
| 60 - 64 | 10 | 68 | 78 | 18 | 476 | 494 | | |
| 65 - 69 | 4 | 35 | 39 | 8 | 112 | 120 | | |
| 70 and Over | 0 | 7 | 7 | 3 | 22 | 25 | | |
| Total | 187 | 439 | 626 | 376 | 2,798 | 3,174 | | |
| Average Age | 39.9 | 51.1 | 47.7 | 41.6 | 52.6 | 51.3 | | |
| Average Accrued Benefit | \$ 63 | \$ 1,107 | \$ 795 | \$ 48 | \$ 580 | \$ 517 | | |

Appendix C - Participant Information (Continued)

| STRIBUTION OF IN PA | Y STATUS | | | | | | |
|------------------------|-----------------------------------|----------------------------|------------------------------------|-----------------------------|------------------------------|-----------------------|----------------|
| Age Group | Continuing Healthy Retirees | New Healthy Retirees | Continuing Disabled Retirees | New Disabled Retirees | Continuing Beneficiaries¹ | New Beneficiaries¹ | Grand Total |
| Under 50 | 1 | 0 | 5 | 0 | 9 | 3 | 18 |
| 50 - 54 | 0 | 0 | 4 | 0 | 8 | 1 | 13 |
| 55 - 59 | 78 | 64 | 13 | 0 | 9 | 3 | 167 |
| 60 - 64 | 340 | 100 | 21 | 0 | 23 | 3 | 487 |
| 65 - 69 | 834 | 44 | 26 | 0 | 20 | 3 | 927 |
| 70 - 74 | 888 | 6 | 15 | 0 | 34 | 3 | 946 |
| 75 - 79 | 567 | 0 | 4 | 0 | 36 | 5 | 612 |
| 80 - 84 | 342 | 0 | 4 | 0 | 37 | 4 | 387 |
| 85 and Over | 358 | 0 | 9 | 0 | 43 | 3 | 413 |
| Total | 3,408 | 214 | 101 | 0 | 219 | 28 | 3,970 |
| verage Age | 73.1 | 61.7 | 66.6 | 0.0 | 73.8 | 68.7 | 72.3 |
| verage Monthly Benefit | \$ 885 | \$ 832 | \$ 949 | \$ 0 | \$ 450 | \$ 607 | \$ 858 |

¹ Includes 18 continuing Alternate Payees and 2 new Alternate Payees.

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 unforeseen data changes that might occur each year, like date of birth corrections, adjustment for past service or other adjustments to participant data that was not expected. It also includes new entrants and changes in hours and/or contribution rates that impact the amount of benefit active participants earn during the year.

| Plan Year | Retirement Gain/(Loss) | | Termination Gain/(Loss) | | Disability Gain/(Loss) | | Mortality Gain/(Loss) | | Miscellaneous Gain/(Loss) | |
|--------------|---------------------------|-----------|----------------------------|-------------|---------------------------|-----------|--------------------------|-------------|------------------------------|-------------|
| 2013 | \$ | 1,943,164 | \$ | 52,665 | \$ | (136,510) | \$ | (21,395) | \$ | (344,116) |
| 2014 | | 2,462,900 | | (509,163) | | (94,877) | | 665,209 | | (404,437) |
| 2015 | | 1,615,254 | | (227,227) | | (95,159) | | 1,762,830 | | (58,520) |
| 2016 | | 1,647,552 | | 175,220 | | (92,794) | | (1,248,878) | | (149,325) |
| 2017¹ | | 682,402 | | (997,214) | | (64,923) | | 306,647 | | (335,661) |
| 5-Year Total | \$ | 8,351,272 | \$ | (1,505,719) | \$ | (484,263) | \$ | 1,464,413 | \$ | (1,292,059) |

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, 2017 | | Market Value | Percent of Total | | | | | |
| Cash (Interest bearing and non-interest bearing) | \$ | 4,764,358 | 1.4% | | | | | |
| Partnership/joint venture interests | | 53,874,920 | 16.1% | | | | | |
| Value of interest in common/collective trusts | | 195,226,355 | 58.3% | | | | | |
| Value of interest in 103-12 Investment Entities | | 56,846,279 | 17.0% | | | | | |
| Value of interest in registered investment companies (i.g., mutual funds) | | 15,728,739 | 4.7% | | | | | |
| Other Assets | | 8,495,797 | 2.5% | | | | | |
| Net Receivables, Payables and Prepaid Expenses | | 111,865 | 0.0% | | | | | |
| Total Assets | \$ | 335,048,313 | 100.0% | | | | | |

Appendix E - Asset Information (Continued)

| SUMMARY OF RECEIPTS AND DISBURSEMENTS | | | | | | | | |
|---|----------------------|----------------------|-------------------------|-------------------------|--|--|--|--|
| | Market Value 2016 | Market Value 2017 | Actuarial Value 2016 | Actuarial Value 2017 | | | | |
| Assets (Beginning of Year) | \$ 334,210,200 | \$ 326,919,954 | \$ 347,859,875 | \$ 342,812,133 | | | | |
| Receipts During Year | | | | | | | | |
| Contributions ¹ | \$ 11,250,910 | \$ 9,588,489 | \$ 11,250,910 | \$ 9,588,489 | | | | |
| Investment Income (Net of Investment Expenses) ² | 20,612,566 | 40,524,491 | 22,855,070 | 22,939,230 | | | | |
| Subtotal Receipts | \$ 31,863,476 | \$ 50,112,980 | \$ 34,105,980 | \$ 32,527,719 | | | | |
| Disbursements During Year | | | | | | | | |
| Benefit Payments | \$ (39,153,722) | \$ (40,137,025) | \$ (39,153,722) | \$ (40,137,025) | | | | |
| Operating Expenses ³ | N/A | (1,847,596) | N/A | (1,847,596) | | | | |
| Subtotal Disbursements | \$ (39,153,722) | \$ (41,984,621) | \$ (39,153,722) | \$ (41,984,621) | | | | |
| Assets (End of Year) | \$ 326,919,954 | \$ 335,048,313 | \$ 342,812,133 | \$ 333,355,231 | | | | |
| Return on Assets | 6.44 % | 13.04 % | 6.84 % | 7.02 % | | | | |

¹ 2016 contributions include \$4,318,217 of benefit accruing contributions, \$43,983 of surcharges, \$3,016,465 of supplemental contributions, and \$3,872,245 of withdrawal liability payments, and 2017 contributions include \$3,383,971 of benefit accruing contributions, \$8,598 of surcharges, \$2,706,688 of supplemental contributions, and \$3,489,232 of withdrawal liability payments.

 $^{^{2}\,\,}$ $\,\,$ 2016 investment income is net of both operating and investment expenses.

 $^{^{3}}$ For 2016, operating expenses are shown as N/A because the investment income shown above is net of both operating and investment expenses.

Appendix E - Asset Information (Continued)

| DE | TERMINATION OF NET INVESTMENT INCOME | |
|----|---|-------------------|
| 1. | Expected Net Investment Income | |
| | A. Market Value of Assets | \$ 326,919,954 |
| | B. Contributions | 9,588,489 |
| | C. Benefit Payments | (40,137,025) |
| | D. Operating Expenses | (1,847,596) |
| | E. Expected Net Investment Income (A + 1/2 B + 1/2 C + 1/2 D) x 7.25% | \$ 22,527,337 |
| 2. | Market Value Earnings | |
| | A. Interest and Dividends | \$ 1,300,811 |
| | B. Realized and Unrealized Gains/(Losses) | 40,818,176 |
| | C. Investment Expenses | (1,636,170) |
| | D. Other Income | 41,674 |
| | E. Total Market Value Earnings (A + B + C + D) | \$ 40,524,491 |
| 3. | Excess/(Deficit) of Market Value Earnings Over Expected Net Investment Income (2E - 1E) | 17,997,154 |
| 4. | Current Year Recognition of Excess/(Deficit) Earnings (Calculated on Next Page) | 411,893 |
| 5. | Net Investment Income (1E + 4) | 22,939,230 |
| 6. | Recognition of Assets in Excess of the Corridor | 0 |
| 7. | Total Net Investment Income (5 + 6) | \$ 22,939,230 |

Appendix E - Asset Information (Continued)

| DETERMINATION OF ACTUARIAL VALUE OF ASSETS | | | | | | | | |
|---|----|--------------------------------|--|-------------|--------------|-------------|--------------|-------------|
| | | | Amount of Excess/(Deficit) Earnings Recognized or to be Recognized | | | | | |
| Plan Year Ended December 31 | E | Excess / (Deficit) Earnings | | Prior Years | Current Year | | Future Years | |
| 2017 | \$ | 17,997,154 | \$ | 0 | \$ | 3,599,431 | \$ | 14,397,723 |
| 2016 | | (2,606,197) | | (521,239) | | (521,239) | | (1,563,719) |
| 2015 | | (22,884,177) | | (9,153,670) | | (4,576,835) | | (9,153,672) |
| 2014 | | (9,936,255) | | (5,961,754) | | (1,987,251) | | (1,987,250) |
| 2013 | | 19,488,943 | | 15,591,156 | | 3,897,787 | | 0 |
| Total | \$ | 2,059,468 | \$ | (45,507) | \$ | 411,893 | \$ | 1,693,082 |
| A. Market Value of Assets as of January 1, 2018 | | | | | | | | 335,048,313 |
| B. Amount of Excess/(Deficit) Earnings to be Recognized in Future Years | | | | | | | | 1,693,082 |
| C. Preliminary Actuarial Value of Assets as of January 1, 2018 (A - B) | | | | | | | | 333,355,231 |
| D. Recognition of Asse | | 0 | | | | | | |
| E. Actuarial Value of A | \$ | 333,355,231 | | | | | | |

Appendix F - Historical Information

| HISTORICAL PARTICIPANT POPULATION | | | | | | | | | | |
|-----------------------------------|---------|------------|-----------|----------|-----------|---------------|-------|---------------------------|--|--|
| | (A) | (B) | (C) | (D) | (E) | (F) | (G) | (C+D+E+F) / (A) | | |
| As of | | Non-Vested | Vested | | | | | Non-Active to | | |
| January 1 | Actives | Inactives | Inactives | Retirees | Disableds | Beneficiaries | QDROs | Active Ratio ¹ | | |
| 1999 | 2,902 | 0 | 2,232 | 2,067 | 0 | 73 | 0 | 1.51 | | |
| 2000 | 2,908 | 0 | 2,272 | 2,166 | 0 | 83 | 0 | 1.55 | | |
| 2001 | 2,891 | 0 | 2,325 | 2,259 | 0 | 91 | 0 | 1.62 | | |
| 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 | | |

Ratio excludes non-vested inactives and QDROs.

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

QDROs included with beneficiaries prior to January 1, 2010.

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

| HISTORICAL EMF | PLOYMENT INFORM | MATION | | | | | |
|----------------|--------------------|--------------|------------|-----------|---------------|----------|--|
| As of | Total Hours | (Prior Year) | Active Par | ticipants | Average Hours | | |
| January 1 | lanuary 1 Number 9 | | Number | % Change | Number | % Change | |
| 2006 | 4,545,605 | N/A | 2,458 | N/A | 1,849 | N/A | |
| 2007 | 4,476,696 | (1.5)% | 2,408 | (2.0)% | 1,859 | 0.5 % | |
| 2008 | 4,219,030 | (5.8)% | 2,278 | (5.4)% | 1,852 | (0.4)% | |
| 2009 | 4,167,497 | (1.2)% | 2,277 | (0.0)% | 1,830 | (1.2)% | |
| 2010 | 3,854,000 | (7.5)% | 2,050 | (10.0)% | 1,880 | 2.7 % | |
| 2011 | 3,647,424 | (5.4)% | 1,936 | (5.6)% | 1,884 | 0.2 % | |
| 2012 | 3,513,594 | (3.7)% | 1,887 | (2.5)% | 1,862 | (1.2)% | |
| 2013 | 3,304,980 | (5.9)% | 1,806 | (4.3)% | 1,830 | (1.7)% | |
| 2014 | 3,176,582 | (3.9)% | 1,718 | (4.9)% | 1,849 | 1.0 % | |
| 2015 | 1,736,000 | (45.4)% | 1,000 | (41.8)% | 1,736 | (6.1)% | |
| 2016 | 1,545,908 | (11.0)% | 868 | (13.2)% | 1,781 | 2.6 % | |
| 2017 | 1,317,052 | (14.8)% | 809 | (6.8)% | 1,628 | (8.6)% | |
| 2018 | 1,032,369 | (21.6)% | 626 | (22.6)% | 1,649 | 1.3 % | |

| As of January 1 | Accruing Contributions (Prior Year) | Non-Accruing Contributions (Prior Year) | Total Contributions (Prior Year) | Actual Normal Cost (Prior Year)¹ | Expenses Included in Normal Cost (Prior Year) |
|--------------------|---|---|--|--|---|
| 1999 | \$ 8,936,246 | \$ 0 | \$ 8,936,246 | \$ 9,692,258 | \$ 0 |
| 2000 | 9,249,078 | 0 | 9,249,078 | 9,828,377 | 0 |
| 2001 | 9,366,427 | 0 | 9,366,427 | 9,014,497 | 0 |
| 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 |

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).

| As of January 1 | Contributions | | Supplemental Contributions (Prior Year) | | Surcharge Contributions (Prior Year) | | Withdrawal Liability Payments (Prior Year) | | Total Contributions (Prior Year)¹ | |
|--------------------|---------------|----|---|----|--|----|--|----|---|--|
| 1999 | \$ 8,936,246 | \$ | 0 | \$ | 0 | \$ | 0 | \$ | 8,936,246 | |
| 2000 | 9,249,078 | | 0 | | 0 | | 0 | | 9,249,078 | |
| 2001 | 9,366,427 | | 0 | | 0 | | 0 | | 9,366,427 | |
| 2002 | 9,660,131 | | 0 | | 0 | | 0 | | 9,660,131 | |
| 2003 | 9,277,458 | | 0 | | 0 | | 0 | | 9,277,458 | |
| 2004 | 7,854,003 | | 0 | | 0 | | 0 | | 7,854,003 | |
| 2005 | 6,935,726 | | 0 | | 0 | | 0 | | 6,935,726 | |
| 2006 | 7,357,903 | | 0 | | 0 | | 0 | | 7,357,903 | |
| 2007 | 7,399,605 | | 0 | | 0 | | 0 | | 7,399,605 | |
| 2008 | 7,678,247 | | 0 | | 0 | | 0 | | 7,678,247 | |
| 2009 | 8,277,807 | | 0 | | 0 | | 0 | | 8,277,807 | |
| 2010 | 7,842,903 | | 0 | | 161,882 | | 0 | | 8,004,785 | |
| 2011 | 7,676,687 | | 0 | | 812,322 | | 0 | | 8,489,009 | |
| 2012 | 7,297,989 | | 884,461 | | 433,924 | | 6,012 | | 8,622,386 | |
| 2013 | 6,980,563 | | 1,513,165 | | 365,908 | | 937,412 | | 9,797,048 | |
| 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 | |
| 2018 | 3,383,971 | | 2,706,688 | | 8,598 | | 3,489,232 | | 9,588,489 | |

¹ Includes withdrawal liability payments.

| HISTORICAL ASS | SETS | | | | |
|----------------|-------------------|------------------------|----------------------|------------------------|--------------|
| As of | Market Value of A | ssets (MVA) | Actuarial Value of A | Assets (AVA) | Ratio of AVA |
| January 1 | Value | Return (Prior Year) | Value | Return (Prior Year) | to MVA |
| 1999 | \$ 433,251,624 | 13.90 % | \$ 358,259,979 | 13.76 % | 82.7 % |
| 2000 | 451,555,025 | 6.08 % | 410,864,722 | 16.15 % | 91.0 % |
| 2001 | 452,504,583 | 2.33 % | 448,529,397 | 11.49 % | 99.1 % |
| 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 % |

| HISTORICAL CA | SHFLOW | | | | |
|--------------------|-------------------------------|----------------------------------|---------------------------------------|------------------------------|------------------------|
| | (A) | (B) | (C) | (D) | (A - B - C)/(D) |
| As of January 1 | Contributions (Prior Year) | Benefit Payments (Prior Year) | Expenses (Prior Year) ¹ | Market Value of Assets (MVA) | Cashflow as a % of MVA |
| 1999 | \$ 8,936,246 | \$ 15,248,117 | \$ 0 | \$ 433,251,624 | (1.5)% |
| 2000 | 9,249,078 | 17,053,007 | 0 | 451,555,025 | (1.7)% |
| 2001 | 9,366,427 | 18,819,097 | 0 | 452,504,583 | (2.1)% |
| 2002 | 9,660,131 | 20,927,583 | 0 | 435,922,795 | (2.6)% |
| 2003 | 9,277,458 | 20,835,583 | 0 | 396,536,797 | (2.9)% |
| 2004 | 7,854,003 | 24,206,237 | 0 | 445,004,175 | (3.7)% |
| 2005 | 6,935,726 | 26,487,895 | 0 | 467,709,398 | (4.2)% |
| 2006 | 7,357,903 | 28,371,211 | 0 | 482,601,045 | (4.4)% |
| 2007 | 7,399,605 | 29,919,215 | 0 | 514,062,081 | (4.4)% |
| 2008 | 7,678,247 | 32,970,957 | 0 | 511,627,264 | (4.9)% |
| 2009 | 8,277,807 | 32,853,989 | 0 | 326,573,213 | (7.5)% |
| 2010 | 8,004,785 | 34,155,460 | 0 | 350,729,611 | (7.5)% |
| 2011 | 8,489,009 | 37,136,630 | 0 | 366,575,098 | (7.8)% |
| 2012 | 8,622,386 | 37,224,104 | 0 | 343,278,474 | (8.3)% |
| 2013 | 9,797,048 | 37,280,366 | 0 | 353,805,803 | (7.8)% |
| 2014 | 11,044,341 | 37,690,222 | 0 | 371,333,873 | (7.2)% |
| 2015 | 10,411,438 | 38,445,844 | 0 | 359,268,671 | (7.8)% |
| 2016 | 11,811,952 | 39,045,991 | 0 | 334,210,200 | (8.1)% |
| 2017 | 11,250,910 | 39,153,722 | 0 | 326,919,954 | (8.5)% |
| 2018 | 9,588,489 | 40,137,025 | 1,847,596 | 335,048,313 | (9.7)% |

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 FUN | NDED STATUS | | | | | | |
|--------------------|---|---------------------------------|---|---|----------------|---|--------------------------|
| | (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 Actuarial Value of Percentage Assets (AVA) | | AVA Unfunded Accrued Liability/ (Actuarial Surplus) | AVA Funded Percentage |
| 1999 | \$ 337,930,892 | \$ 433,251,624 | \$ (95,320,732) | 128.2 % | \$ 358,259,979 | \$ (20,329,087) | 106.0 % |
| 2000 | 378,680,373 | 451,555,025 | (72,874,652) | 119.2 % | 410,864,722 | (32,184,349) | 108.5 % |
| 2001 | 444,640,171 | 452,504,583 | (7,864,412) | 101.8 % | 448,529,397 | (3,889,226) | 100.9 % |
| 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 % |

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.

| | (A) | (B) | (B) / (A) | |
|--------------------|------------------------------------|------------------------------|-------------------------------------|------------------------|
| As of January 1 | PPA Actuarial Accrued Liability | Actuarial Value of Assets | Zone Status Funded Percentage | Zone Status |
| 2008 | 561,884,044 | 507,372,247 | 90.30 % | Safe |
| 2009 | 552,544,039 | 391,887,856 | 70.92 % | Critical |
| 2010 | 533,426,348 | 420,875,533 | 78.90 % | Critical |
| 2011 | 535,120,828 | 415,436,594 | 77.63 % | Critical |
| 2012 | 536,525,258 | 375,837,641 | 70.05 % | Critical |
| 2013 | 538,389,644 | 341,155,304 | 63.37 % | Critical |
| 2014 | 538,956,405 | 351,347,913 | 65.19 % | Critical |
| 2015 | 537,887,774 | 353,925,354 | 65.80 % | Critical |
| 2016 | 534,860,955 | 347,859,875 | 65.04 % | Critical and Declining |
| 2017 | 527,455,968 | 342,812,133 | 64.99 % | Critical and Declining |
| 2018 | 525,324,100 | 333,355,231 | 63.46 % | Critical and Declining |

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

Appendix G - Funding Standard Account (for Schedule MB)

| FUNDING STANDARD ACCOUNT ¹ | | | | |
|---|-------------------|-------------------------------|-------------|--|
| | 2017 | 2018 (Estimated) ³ | | |
| 1. Charges | | | | |
| A. Funding Deficiency | \$ 0 | \$ | 0 | |
| B. Normal Cost (Beginning of Year) | 2,108,688 | | 2,090,000 | |
| C. Amortization Charges | 36,045,202 | | 35,923,394 | |
| D. Interest on A, B and C | 2,766,157 | | 2,755,971 | |
| E. Subtotal Charges (A + B + C + D) | \$ 40,920,047 | \$ | 40,769,365 | |
| 2. Credits | | | | |
| A. Credit Balance on January 1 | \$ 35,343,447 | \$ | 16,828,984 | |
| B. Employer Contributions for Year ² | 9,588,489 | | 11,955,000 | |
| C. Amortization Credits | 9,237,401 | | 9,237,401 | |
| D. Interest on A, B and C | 3,579,694 | | 2,323,182 | |
| E. Subtotal Credits (A + B + C + D) | \$ 57,749,031 | \$ | 40,344,567 | |
| 3. Credit Balance / (Funding Deficiency) on December 31 (2E - 1D) | \$ 16,828,984 | \$ | (424,798) | |
| 4. Minimum Required Contribution (Before Credit Balance) | \$ 31,012,934 | \$ | 30,862,252 | |
| 5. Minimum Required Contribution (After Credit Balance) | \$ 0 | \$ | 12,813,167 | |
| 6. ERISA FFL (Accrued Liability FFL) | \$ 255,242,290 | \$ | 226,177,952 | |
| 7. "RPA '94" Override (90% Current Liability FFL) | \$ 401,689,896 | \$ | 440,525,995 | |

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

 $^{^{2}\,\,}$ $\,$ 2018 estimated contributions reflect one quarterly payment for the 2017 withdrawn Employers.

Appendix G - Funding Standard Account (for Schedule MB) (Continued)

| FULL FUNDING LIMITS | | | | |
|---|----------|---|----------|--|
| | | 2017 | | 2018 (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 % 527,455,968 756,007 (40,137,025) 36,840,401 | \$ | 7.25 % 525,324,100 738,000 (42,430,014) 36,601,414 |
| 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 | \$ | 524,915,351 326,919,954 35,343,447 291,576,507 (40,137,025) (1,352,681) 19,586,260 | \$ | 520,233,500 333,355,231 16,828,984 316,526,247 (42,430,014) (1,352,681) 21,311,996 |
| M. Expected Assets (I + J + K + L))N. ERISA FFL (F - M)2. RPA '94 FFL | \$ \$ | 269,673,061 255,242,290 | \$ \$ | 294,055,548 226,177,952 |
| A. Interest RateB. LiabilityC. Normal Cost (without expenses)D. Expected Benefit PaymentsE. Interest on B, C and D | \$ | 3.05 % 821,081,746 1,590,494 (40,137,025) 24,479,414 | \$ | 2.98 % 852,189,392 1,674,000 (42,502,936) 24,811,835 |
| F. Expected Liability (B + C + D + E) G. Funding Limit Factor | \$ | 807,014,629 90 % | \$ | 836,172,291 90 % |
| H. Funding Limit Liability (F * G) I. AVA J. Expected Benefit Payments K. Expected Operating Expenses L. Interest on I, J, and K | \$ \$ | 726,313,166 342,812,133 (40,137,025) (1,352,681) 23,300,843 | \$ \$ | 752,555,062 333,355,231 (42,502,936) (1,352,681) 22,529,453 |
| M. Expected Assets (I + J + K + L))N. RPA '94 FFL (H - M) | \$ \$ | 324,623,270 401,689,896 | \$ \$ | 312,029,067 440,525,995 |

Appendix G - Funding Standard Account (for Schedule MB) (Continued)

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (As of January 1, 2018)

| | Amortiz | ation Per | iod | | Bala | nces | |
|---------------------------|---------------------|-------------------|---------------------|----|------------|--------------|------------------------------|
| Charges | Date Established | Initial Period | Remaining Period | | Initial | Remaining | Beginning-of-Year Payment |
| Initial Liability | 1/1/1976 | 45.00 | 3.00 | \$ | 13,447,933 | \$ 1,822,090 | \$ 650,335 |
| Actuarial Assumption | 1/1/1978 | 43.00 | 3.00 | | 1,960,033 | 269,673 | 96,252 |
| Plan Amendment | 1/1/1980 | 45.00 | 7.00 | | 395,897 | 129,615 | 22,619 |
| Plan Amendment | 1/1/1981 | 45.00 | 8.00 | | 3,609,259 | 1,341,857 | 211,562 |
| Plan Amendment | 1/1/1984 | 35.00 | 1.00 | | 3,740,561 | 168,600 | 168,600 |
| Plan Amendment | 1/1/1985 | 35.00 | 2.00 | | 3,177,239 | 301,455 | 156,003 |
| Plan Amendment | 1/1/1986 | 35.00 | 3.00 | | 3,832,226 | 562,976 | 200,933 |
| Plan Amendment | 1/1/1987 | 35.00 | 4.00 | | 4,466,400 | 891,123 | 246,686 |
| Plan Amendment | 1/1/1988 | 35.00 | 5.00 | | 7,521,437 | 1,892,824 | 433,319 |
| Plan Amendment | 1/1/1989 | 35.00 | 6.00 | | 6,238,198 | 1,887,849 | 372,143 |
| Plan Amendment | 1/1/1990 | 35.00 | 7.00 | | 1,991,358 | 700,596 | 122,268 |
| Plan Amendment+Act Assump | 1/1/1991 | 35.00 | 8.00 | | 3,867,632 | 1,543,450 | 243,346 |
| Plan Amendment | 1/1/1992 | 35.00 | 9.00 | | 2,315,769 | 1,028,711 | 148,790 |
| Plan Amendment | 1/1/1993 | 35.00 | 10.00 | | 8,009,694 | 3,902,259 | 524,040 |
| Plan Amendment+Act Assump | 1/1/1994 | 35.00 | 11.00 | | 5,816,782 | 3,071,022 | 386,626 |
| Plan Amendment | 1/1/1995 | 35.00 | 12.00 | | 3,954,934 | 2,240,612 | 266,543 |
| Actuarial Assumption | 1/1/1996 | 35.00 | 13.00 | | 2,334,000 | 1,407,322 | 159,236 |
| Plan Amendment | 1/1/1996 | 35.00 | 13.00 | | 19,722,004 | 11,891,648 | 1,345,523 |
| Plan Amendment | 1/1/1997 | 35.00 | 14.00 | | 12,051,000 | 7,680,179 | 831,144 |
| Plan Amendment | 1/1/1998 | 35.00 | 15.00 | | 12,834,000 | 8,594,142 | 893,747 |
| Actuarial Assumption | 1/1/1998 | 35.00 | 15.00 | | 5,651,596 | 3,784,521 | 393,572 |
| Actuarial Assumption | 1/1/1999 | 35.00 | 16.00 | | 500,000 | 350,028 | 35,122 |
| Plan Amendment | 1/1/1999 | 35.00 | 16.00 | : | 21,615,699 | 15,131,868 | 1,518,376 |
| Plan Amendment | 1/1/2000 | 35.00 | 17.00 | | 7,937,933 | 5,783,581 | 561,942 |
| Actuarial Assumption | 1/1/2000 | 35.00 | 17.00 | | 4,389,753 | 3,198,373 | 310,759 |

Experience Loss

Experience Loss

Total Charges

Appendix G - Funding Standard Account (for Schedule MB) (Continued)

| FUNDING STANDARD ACCOUNT | AMORTIZATION BASE | 018) (CONT | 8) (CONTINUED) | | | | | |
|--------------------------|---------------------|---------------------|---------------------|-----------|-------|--------------|------------------------------|--|
| | Amortiz | Amortization Period | | | Balar | | | |
| Charges | Date Established | Initial Period | Remaining Period | Init | tial | Remaining | Beginning-of-Year Payment | |
| Plan Amendment | 1/1/2001 | 35.00 | 18.00 | \$ 12,746 | ,807 | \$ 9,629,042 | \$ 908,708 | |
| Plan Amendment | 1/1/2002 | 35.00 | 19.00 | 2,268 | ,072 | 1,770,351 | 162,714 | |
| Plan Amendment | 1/1/2003 | 35.00 | 20.00 | 2,964 | ,980 | 2,384,196 | 213,933 | |
| Experience Loss | 1/1/2003 | 20.00 | 5.00 | 12,151 | ,612 | 4,130,225 | 945,524 | |
| Experience Loss | 1/1/2004 | 20.00 | 6.00 | 23,109 | ,456 | 9,441,111 | 1,861,090 | |
| Experience Loss | 1/1/2005 | 20.00 | 7.00 | 12,406 | ,469 | 5,892,392 | 1,028,346 | |
| Plan Amendment | 1/1/2005 | 35.00 | 22.00 | 1,000 | ,895 | 847,631 | 72,938 | |
| Actuarial Assumption | 1/1/2005 | 35.00 | 22.00 | 1,063 | ,519 | 900,658 | 77,502 | |
| Experience Loss | 1/1/2006 | 20.00 | 8.00 | 6,485 | ,444 | 3,493,930 | 550,865 | |
| Plan Amendment | 1/1/2006 | 35.00 | 23.00 | 1,459 | ,383 | 1,264,153 | 106,809 | |
| Plan Amendment | 1/1/2007 | 35.00 | 24.00 | 1,475 | ,698 | 1,305,003 | 108,429 | |
| Plan Amendment | 1/1/2008 | 20.00 | 10.00 | 1,383 | ,243 | 909,753 | 122,173 | |
| Experience Loss | 1/1/2009 | 20.00 | 11.00 | 123,105 | ,349 | 87,741,197 | 11,046,176 | |
| Experience Loss | 1/1/2011 | 15.00 | 8.00 | 5,600 | ,066 | 3,693,815 | 582,379 | |
| Experience Loss | 1/1/2012 | 15.00 | 9.00 | 39,179 | ,040 | 28,170,068 | 4,074,425 | |
| Experience Loss | 1/1/2013 | 15.00 | 10.00 | 33,032 | ,826 | 25,580,604 | 3,435,249 | |
| Experience Loss | 1/1/2016 | 15.00 | 13.00 | 506 | ,616 | 465,630 | 52,686 | |

Rael & Letson 45

14.00

15.00

1,021,519

1,612,860

981,644

1,612,860

\$ 269,790,637

106,233

167,729

35,923,394

1/1/2017

1/1/2018

15.00

15.00

Appendix G - Funding Standard Account (for Schedule MB) (Continued)

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (As of January 1, 2018) (CONTINUED)

| | Amortization Period | | | Balances | | | | | |
|-------------------|---------------------|-------------------|---------------------|----------|--------------|----|--------------|------------------------------|-------------|
| Credits | Date Established | Initial Period | Remaining Period | | Initial | | Remaining | Beginning-of-Year Payment | |
| Experience Gain | 1/1/2010 | 15.00 | 7.00 | \$ | (27,345,881) | \$ | (16,295,104) | \$ | (2,843,835) |
| Plan Amendment | 1/1/2010 | 15.00 | 7.00 | | (32,045,400) | | (19,095,490) | | (3,332,562) |
| Experience Gain | 1/1/2014 | 15.00 | 11.00 | | (14,564,452) | | (12,030,906) | | (1,514,630) |
| Experience Gain | 1/1/2015 | 15.00 | 12.00 | | (8,275,002) | | (7,234,014) | | (860,559) |
| Assumption Change | 1/1/2017 | 15.00 | 14.00 | | (6,594,691) | | (6,337,270) | | (685,815) |
| Total Credits | | | | | | \$ | (60,992,784) | \$ | (9,237,401) |

Appendix H - Additional Schedule MB Information

| DISTRIBUTION OF ACTIVE PARTICIPANTS BY AGE AND CREDITED SERVICE (FOR 2018 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 | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 25 - 29 | 0 | 25 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| 30 - 34 | 0 | 23 | 21 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| 35 - 39 | 0 | 49 | 19 | 18 | 7 | 0 | 0 | 0 | 0 | 0 | 93 |
| 40 - 44 | 0 | 23 | 13 | 12 | 14 | 4 | 0 | 0 | 0 | 0 | 66 |
| 45 - 49 | 0 | 13 | 13 | 16 | 15 | 12 | 6 | 0 | 0 | 0 | 75 |
| 50 - 54 | 0 | 17 | 10 | 15 | 18 | 7 | 9 | 6 | 0 | 0 | 82 |
| 55 - 59 | 0 | 10 | 10 | 15 | 18 | 16 | 10 | 8 | 2 | 0 | 89 |
| 60 - 64 | 0 | 10 | 15 | 12 | 12 | 8 | 13 | 4 | 2 | 2 | 78 |
| 65 - 69 | 0 | 4 | 6 | 8 | 6 | 7 | 4 | 2 | 2 | 0 | 39 |
| 70 and Over | 0 | 0 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 7 |
| Total | 0 | 187 | 116 | 105 | 92 | 55 | 42 | 20 | 7 | 2 | 626 |

Appendix H - Additional Schedule MB Information (Continued)

| CURRENT LIABILITY (FOR 2018 SCHEDULE MB) | | | |
|---|--------|----|-----------------|
| | Counts | , | January 1, 2018 |
| A. Retirees and Beneficiaries | 3,970 | \$ | 537,462,626 |
| B. Vested Inactive Participants | 2,798 | | 242,303,060 |
| C. Active Participants | | | |
| 1. Non-Vested | 187 | \$ | 1,284,671 |
| 2. Vested | 439 | | 71,139,035 |
| 3. Sub-total (1 + 2) | 626 | \$ | 72,423,706 |
| D. Total Current Liability (A + B + C3) | | \$ | 852,189,392 |
| E. Market Value of Assets | | | 335,048,313 |
| F. Funded Percentage Using Market Value of Assets (E / D) | | | 39.32 % |
| G. Expected Increase in Current Liability | | \$ | 1,674,462 |
| H. Expected Release from Current Liability ¹ | | | 42,502,936 |
| I. Expected Disbursements ¹ | | | 42,502,936 |
| J. Current Liability Interest Rate | | | 2.98 % |

Actual disbursements during the 2018 Plan Year will be used in the 2018 Schedule MB.

Appendix H - Additional Schedule MB Information (Continued)

| PROJECTION OF EXPECTED BENEFIT | PAYMENTS |
|--------------------------------|----------|
| (FOR 2018 SCHEDULE MB) | |

| Plan Year | Expected Annual Benefit Payment |
|-------------------|------------------------------------|
| 2018 ¹ | \$ 42,430,014 |
| 2019 | 42,895,461 |
| 2020 | 43,175,028 |
| 2021 | 43,645,926 |
| 2022 | 44,094,818 |
| 2023 | 44,302,545 |
| 2024 | 44,504,128 |
| 2025 | 44,379,250 |
| 2026 | 44,167,309 |
| 2027 | 44,000,290 |

Actual benefit payments for the 2018 Plan Year as provided by Vavrinek, Trine, Day & Co. LLP will be used in the 2018 Schedule MB.

Appendix I – Maximum Deductible Contribution

| MAXIMUM DEDUCTIBLE CONTRIBUTION | |
|---|------------------------------|
| | Year Ending mber 31, 2018 |
| A. Normal Cost | \$ 2,090,000 |
| B. 10-Year Amortization of Unfunded Accrued Liability | 25,779,726 |
| C. Interest to End of Plan Year | 2,020,555 |
| D. Preliminary Max (A + B + C) | \$ 29,890,281 |
| E. Full Funding Limitation | |
| 1. ERISA | \$ 208,128,867 |
| 2. RPA Full Funding Limit Override | 440,525,995 |
| 3. Greater of E1 or E2 | 440,525,995 |
| F. Regular Maximum Deductible Contribution (lesser of D and E3) | 29,890,281 |
| G. Minimum Required Contribution, End of Year | 12,813,167 |
| H. 140% of Current Liability Basis | |
| Current Liability, Projected to End of Year | \$ 836,172,291 |
| 2. Actuarial Value of Assets Projected to End of Year | 312,029,067 |
| 3. Excess of 140% of Current Liability over Actuarial Value of Assets at End of Year (140% x H1 - H2) | \$ 858,612,140 |
| I. Maximum Deductible Contribution (greater of F, G and H3) | \$ 858,612,140 |

Appendix I - Maximum Deductible Contribution (Continued)

| FULL FUNDING LIMITS | | |
|--|----------|---|
| | | Year Ending mber 31, 2018 |
| 1. ERISA FFL A. Interest Rate B. Liability C. Normal Cost (without expenses) D. Expected Benefit Payments E. Interest on B, C and D F. Expected Liability (B + C + D + E) G. Min of AVA and MVA H. Credit Balance | \$ | 7.25 % 525,324,100 738,000 (42,430,014) 36,601,414 520,233,500 333,355,231 N/A |
| I. Adjusted Assets J. Expected Benefit Payments K. Expected Operating Expenses L. Interest on I, J, and K | • | 333,355,231 (42,430,014) (1,352,681) 22,532,097 |
| M. Expected Assets (I + J + K + L)) N. ERISA FFL (F - M) 2. RPA '94 FFL | \$ \$ | 312,104,633 208,128,867 |
| A. Interest Rate B. Liability C. Normal Cost (without expenses) D. Expected Benefit Payments E. Interest on B, C and D | \$ | 2.98 % 852,189,392 1,674,000 (42,502,936) 24,811,835 |
| F. Expected Liability (B + C + D + E) G. Funding Limit Factor | \$ | 836,172,291 90 % |
| H. Funding Limit Liability (F * G) I. AVA J. Expected Benefit Payments K. Expected Operating Expenses L. Interest on I, J, and K | \$ \$ | 752,555,062 333,355,231 (42,502,936) (1,352,681) 22,529,453 |
| M. Expected Assets (I + J + K + L)) N. RPA '94 FFL (H - M) | \$ \$ | 312,029,067 440,525,995 |

Appendix J - Auditor Information (FASB ASC 960)

| | 2016 | 2017 |
|---|-------------------|-------------------|
| Actuarial Present Value of Accumulated Plan Benefits at Beginning of Year (January 1) | \$ 534,860,955 | \$ 534,050,659 |
| Increase/(Decrease) during the Year Attributable to: | | |
| Benefits Accumulated and Actuarial Experience | \$ 985,329 | \$ 741,451 |
| Plan Amendments | 0 | 0 |
| Actuarial Assumption Changes ¹ | 0 | (6,594,691) |
| Increase for Interest | 37,358,097 | 37,263,706 |
| Benefits Paid | (39,153,722) | (40,137,025) |
| Net Increase/(Decrease) | \$ (810,296) | \$ (8,726,559) |
| Actuarial Present Value of Accumulated Plan Benefits at End of Year (December 31) | \$ 534,050,659 | \$ 525,324,100 |

ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS

| | 2016 | 2017 |
|---|-------------------|-------------------|
| Actuarial Present Value of Accrued Benefits | | |
| Vested Benefits | | |
| Participants Currently Receiving Benefits | \$ 360,262,305 | \$ 370,879,885 |
| Other Participants | 173,056,751 | 153,777,448 |
| Total Vested Benefits | \$ 533,319,056 | \$ 524,657,333 |
| Non-Vested Benefits | 731,603 | 666,767 |
| Actuarial Present Value of Accumulated Plan Benefits at End of Year (December 31) | \$ 534,050,659 | \$ 525,324,100 |

Assumption changes were effective on January 1, 2017.

Appendix K - Withdrawal Liability Information

| DETERMINATION OF VESTED BENEFIT LIABILITIES FOR WITHDRAWAL LIABILITY PURPOSES | | | | | | | |
|---|----|-------------|----|-------------|--|--|--|
| December 31, 2016 December 31, 2017 | | | | | | | |
| Vested Benefit Liabilities Earned to Date | \$ | 533,319,056 | \$ | 524,657,333 | | | |
| 2. PBGC 10-3 Base ¹ | | 17,656,697 | | 16,197,852 | | | |
| 3. Vested Benefit Liabilities (1 + 2) | \$ | 550,975,753 | \$ | 540,855,185 | | | |

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.

Appendix K - Withdrawal Liability Information (Continued)

| PBGC 10-3 BASES | | |
|------------------------|-------------------|-------------------|
| | Outstanding E | Balance as of |
| Base Established as of | December 31, 2016 | December 31, 2017 |
| December 31, 2013 | 17,656,697 | 16,197,852 |
| Total | \$ 17,656,697 | \$ 16,197,852 |

Appendix L - Funding Standard Account (No Amortization Extension)

| FUNDING STANDARD ACCOUNT (No Amortization Extension) ¹ | | | |
|---|--------------------|----|-------------------------------|
| | 2017 | | 2018 (Estimated) ² |
| 1. Charges | | | |
| A. Funding Deficiency | \$ 19,213,990 | \$ | 44,477,960 |
| B. Normal Cost (Beginning of Year) | 2,108,688 | | 2,090,000 |
| C. Amortization Charges | 38,650,417 | | 36,975,294 |
| D. Interest on A, B and C | 4,348,049 | | 6,056,886 |
| E. Subtotal Charges (A + B + C +D) | 64,321,144 | | 89,600,140 |
| 2. Credits | | | |
| A. Funding Deficiency on January 1 | \$ 0 | \$ | 0 |
| B. Employer Contributions for Year ² | 9,588,489 | | 11,955,000 |
| C. Amortization Credits | 9,237,401 | | 9,237,401 |
| D. Interest on A, B and C | 1,017,294 | | 1,103,080 |
| E. Subtotal Credits (A + B + C + D) | \$ 19,843,184 | \$ | 22,295,481 |
| 3. Funding Deficiency on December 31 (2E - 1E) | \$ (44,477,960) | \$ | (67,304,659) |
| 4. Minimum Required Contribution (Before Credit Balance) | \$ 54,414,031 | \$ | 79,693,027 |
| 5. Minimum Required Contribution (After Credit Balance) | \$ 54,414,031 | \$ | 79,693,027 |
| 6. ERISA FFL (Accrued Liability FFL) | \$ 255,242,290 | \$ | 226,177,952 |
| 7. "RPA '94" Override (90% Current Liability FFL) | \$ 401,689,896 | \$ | 440,525,995 |

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

² 2018 estimated contributions reflect a partial year of withdrawal liability payments for the 2017 withdrawn Employers.

Appendix L - Funding Standard Account (No Amortization Extension) (Continued)

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (No Amortization Extension) (As of January 1, 2018)

| | Amortiz | Amortization Period | | Bala | | |
|---------------------------|---------------------|---------------------|---------------------|------------|------------|------------------------------|
| Charges | Date Established | Initial Period | Remaining Period | Initial | Remaining | Beginning-of-Year Payment |
| Plan Amendment | 1/1/1980 | 40.00 | 2.00 | \$ 395,897 | \$ 54,838 | \$ 28,380 |
| Plan Amendment | 1/1/1981 | 40.00 | 3.00 | 3,609,259 | 725,737 | 259,026 |
| Plan Amendment | 1/1/1989 | 30.00 | 1.00 | 6,238,198 | 480,553 | 480,553 |
| Plan Amendment | 1/1/1990 | 30.00 | 2.00 | 1,991,358 | 296,433 | 153,404 |
| Plan Amendment+Act Assump | 1/1/1991 | 30.00 | 3.00 | 3,867,632 | 834,766 | 297,941 |
| Plan Amendment | 1/1/1992 | 30.00 | 4.00 | 2,315,769 | 644,426 | 178,395 |
| Plan Amendment | 1/1/1993 | 30.00 | 5.00 | 8,009,694 | 2,695,268 | 617,024 |
| Plan Amendment+Act Assump | 1/1/1994 | 30.00 | 6.00 | 5,816,782 | 2,273,135 | 448,093 |
| Plan Amendment | 1/1/1995 | 30.00 | 7.00 | 3,954,934 | 1,745,734 | 304,667 |
| Actuarial Assumption | 1/1/1996 | 30.00 | 8.00 | 2,334,000 | 1,140,400 | 179,799 |
| Plan Amendment | 1/1/1996 | 30.00 | 8.00 | 19,722,004 | 9,636,211 | 1,519,277 |
| Plan Amendment | 1/1/1997 | 30.00 | 9.00 | 12,051,000 | 6,418,460 | 928,344 |
| Plan Amendment | 1/1/1998 | 30.00 | 10.00 | 12,834,000 | 7,362,087 | 988,662 |
| Actuarial Assumption | 1/1/1998 | 30.00 | 10.00 | 5,651,596 | 3,241,969 | 435,369 |
| Actuarial Assumption | 1/1/1999 | 30.00 | 11.00 | 500,000 | 305,952 | 38,517 |
| Plan Amendment | 1/1/1999 | 30.00 | 11.00 | 21,615,699 | 13,226,549 | 1,665,157 |
| Plan Amendment | 1/1/2000 | 30.00 | 12.00 | 7,937,933 | 5,140,348 | 611,495 |
| Actuarial Assumption | 1/1/2000 | 30.00 | 12.00 | 4,389,753 | 2,842,658 | 338,162 |
| Plan Amendment | 1/1/2001 | 30.00 | 13.00 | 12,746,807 | 8,678,372 | 981,945 |
| Plan Amendment | 1/1/2002 | 30.00 | 14.00 | 2,268,072 | 1,614,504 | 174,720 |
| Plan Amendment | 1/1/2003 | 30.00 | 15.00 | 2,964,980 | 2,196,318 | 228,407 |
| Experience Loss | 1/1/2004 | 15.00 | 1.00 | 23,109,456 | 2,403,264 | 2,403,264 |
| Experience Loss | 1/1/2005 | 15.00 | 2.00 | 12,406,469 | 2,493,209 | 1,290,211 |
| Plan Amendment | 1/1/2005 | 30.00 | 17.00 | 1,000,895 | 793,555 | 77,104 |
| Actuarial Assumption | 1/1/2005 | 30.00 | 17.00 | 1,063,519 | 843,205 | 81,928 |

Appendix L - Funding Standard Account (No Amortization Extension) (Continued)

| FUNDING CTANDARD ACCOUNT AMORTIZATION DACEC (No. Amoutication Extension) (| (A - of law.com. 4 0040) | (CONTINUED) |
|--|--------------------------|-------------|
| FUNDING STANDARD ACCOUNT AMORTIZATION BASES (No Amortization Extension) (| AS OF January 1 ZUIXI | (CONTINUED) |

| | Amortiz | Amortization Period | | | Balances | | |
|-----------------|---------------------|---------------------|---------------------|--------------|----------------|------------------------------|--|
| Charges | Date Established | Initial Period | Remaining Period | Initial | Remaining | Beginning-of-Year Payment | |
| Experience Loss | 1/1/2006 | 15.00 | 3.00 | \$ 6,485,444 | \$ 1,889,663 | \$ 674,454 | |
| Plan Amendment | 1/1/2006 | 30.00 | 18.00 | 1,459,383 | 1,191,276 | 112,423 | |
| Plan Amendment | 1/1/2007 | 30.00 | 19.00 | 1,475,698 | 1,236,841 | 113,680 | |
| Plan Amendment | 1/1/2008 | 15.00 | 5.00 | 1,383,243 | 628,369 | 143,850 | |
| Experience Loss | 1/1/2009 | 15.00 | 6.00 | 123,105,349 | 64,944,970 | 12,802,342 | |
| Experience Loss | 1/1/2011 | 15.00 | 8.00 | 5,600,066 | 3,693,814 | 582,379 | |
| Experience Loss | 1/1/2012 | 15.00 | 9.00 | 39,179,040 | 28,170,074 | 4,074,425 | |
| Experience Loss | 1/1/2013 | 15.00 | 10.00 | 33,032,826 | 25,580,601 | 3,435,249 | |
| Experience Loss | 1/1/2016 | 15.00 | 13.00 | 506,616 | 465,630 | 52,686 | |
| Experience Loss | 1/1/2017 | 15.00 | 14.00 | 1,021,519 | 981,644 | 106,233 | |
| Experience Loss | 1/1/2018 | 15.00 | 15.00 | 1,612,860 | 1,612,860 | 167,729 | |
| Total Charges | | | | | \$ 208,483,693 | \$ 36,975,294 | |

Appendix L - Funding Standard Account (No Amortization Extension) (Continued)

FUNDING STANDARD ACCOUNT AMORTIZATION BASES (No Amortization Extension) (As of January 1, 2018) (CONTINUED)

| | Amortization Period | | | Balances | | | | | |
|-------------------|---------------------|-------------------|---------------------|----------|--------------|----|--------------|----|------------------------------|
| Credits | Date Established | Initial Period | Remaining Period | | Initial | | Remaining | | Beginning-of-Year Payment |
| Experience Gain | 1/1/2010 | 15.00 | 7.00 | \$ | (27,345,881) | \$ | (16,295,104) | \$ | (2,843,835) |
| Plan Amendment | 1/1/2010 | 15.00 | 7.00 | | (32,045,400) | | (19,095,490) | | (3,332,562) |
| Experience Gain | 1/1/2014 | 15.00 | 11.00 | | (14,564,452) | | (12,030,906) | | (1,514,630) |
| Experience Gain | 1/1/2015 | 15.00 | 12.00 | | (8,275,002) | | (7,234,014) | | (860,559) |
| Assumption Change | 1/1/2017 | 15.00 | 14.00 | | (6,594,691) | | (6,337,270) | | (685,815) |
| Total Credits | | | | | | \$ | (60,992,784) | \$ | (9,237,401) |

