

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN ANNUAL ACTUARIAL VALUATION REPORT DECEMBER 31, 2016 SAGINAW CO (7303)



Spring, 2017

Saginaw Co

In care of: Municipal Employees' Retirement System of Michigan 1134 Municipal Way Lansing, Michigan 48917

This report presents the results of the Annual Actuarial Valuation, prepared as of December 31, 2016. The report includes the determination of liabilities and contribution rates resulting from the participation of Saginaw Co (7303) in the Municipal Employees' Retirement System of Michigan ("MERS"). MERS is a nonprofit organization, independent from the State, that has provided retirement plans for municipal employees for 70 years. Saginaw Co is responsible for the employer contributions needed to provide MERS benefits for its employees and former employees under the Michigan Constitution and the MERS Plan Document.

The purpose of the December 31, 2016 annual actuarial valuation is to:

- Measure funding progress
- · Establish contribution requirements for the fiscal year beginning October 1, 2018
- Provide actuarial information in connection with applicable Governmental Accounting Standards Board (GASB) statements

This valuation report should not be relied upon for any other purpose. Reliance on information contained in this report by anyone for anything other than the intended purpose could be misleading.

The valuation uses financial data, plan provision data, and participant data as of December 31, 2016 furnished by MERS. In accordance with Actuarial Standards of Practice No. 23, the data was checked for internal and year to year consistency as well as general reasonableness, but was not otherwise audited. CBIZ Retirement Plan Services does not assume responsibility for the accuracy or completeness of the data used in this valuation.

The actuarial assumptions and methods are adopted by the MERS Retirement Board, and are reviewed every five years in an Experience Study. The most recent study was completed in 2015. Please refer to the division-specific assumptions described in table(s) in this report, and to the Appendix on the MERS website at:

www.mersofmich.com/Portals/0/Assets/Resources/AAV-Appendix/MERS-2016AnnualActuarialValuation-Appendix.pdf.



The actuarial assumptions used for this valuation produce results that we believe are reasonable.

To the best of our knowledge, this report is complete and accurate, was prepared in conformity with generally recognized actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board, and is in compliance with Act No. 220 of the Public Acts of 1996, as amended, and the MERS Plan Document as revised. All of the undersigned are members of the American Academy of Actuaries (MAAA), and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein. The Retirement Board of the Municipal Employees' Retirement System of Michigan confirms that the System provides for payment of the required employer contribution as described in Section 20m of Act No. 314 of 1965 (MCL 38.1140m).

This information is purely actuarial in nature. It is not intended to serve as a substitute for legal, accounting or investment advice.

This report was prepared at the request of the Retirement Board and may be provided only in its entirety by the municipality to other interested parties (MERS customarily provides the full report on request to associated third parties such as the auditor for the municipality). CBIZ Retirement Plan Services is not responsible for the consequences of any unauthorized use.

You should notify MERS if you disagree with anything contained in the report or are aware of any information that would affect the results of the report that have not been communicated to us. If you have reason to believe that the plan provisions are incorrectly described, that important plan provisions relevant to this valuation are not described, that conditions have changed since the calculations were made, that the information provided in this report is inaccurate or is in anyway incomplete, or if you need further information in order to make an informed decision on the subject matter in this report, please contact your Regional Manager at 1.800.767.MERS(6377).

Sincerely,

Cathy Nagy, MAAA, FSA Jim Koss, MAAA, ASA Curtis Powell, MAAA, EA

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Executive Summary

Actuarial Assumptions and Methods Adopted with the December 31, 2015 Valuations

The actuarial assumptions and methods are adopted by the MERS Retirement Board, and are reviewed every five years in an Experience Study. The Experience Study is a comprehensive, detailed analysis that reviews MERS' funding policy and compares actual experience with the current actuarial assumptions; the study recommends adjustments as necessary. The most recent study was completed in 2015 and changes to the assumptions and methods based on the 2015 Experience Study were first reflected in the December 31, 2015 valuations. The impact of these changes is being phased-in over a 5 year period. The phase-in allows the employer to spread the impact of the new assumptions over 5 fiscal years. This report continues to provide contributions both with and without the phase-in adjustments.

The assumptions and methods are described in the Appendix on the MERS website.

As part of the recent Experience Study, the following changes are first reflected in the December 31, 2016 annual valuation:

- The asset smoothing was changed from 10 to 5 years. The gain (loss) recognized each year will be 20% of the current year's gain (loss) plus 20% of the gain (loss) from each of the 4 preceding years. The cumulative difference between the market value and valuation assets as of December 31, 2015 will be recognized over 4 years.
- Annual changes in Unfunded Accrued Liability (UAL) will be amortized over fixed periods, creating "layers" of UAL. This will require removing and creating "layers" of UAL on an annual basis.
 - o Once the amortization period drops below 15 years (10 years for closed divisions), any future liability and asset gains or losses will be spread over a 15-year fixed period for open divisions and a 10-year fixed period for closed divisions creating "layers" of UAL on an annual basis.
 - o This transparent method allows tracking of what changed your UAL, and sets a fixed period in time in which that UAL change will be fully funded.

MERS created a dedicated resource page on their website for additional information on these topics (http://www.mersofmich.com/Employer/Work-Scenarios/Unfunded-Liability).

Funded Ratio and Required Employer Contributions

The MERS Defined Benefit Plan is an agent multiple-employer plan, meaning that assets are pooled for investment purposes but separate accounts are maintained for each individual employer. Each municipality is responsible for their own plan liabilities; MERS does not borrow from one municipality's account to pay for another.

The funded ratio of a plan is the percentage of the dollar value of the accrued benefits that is covered by the actuarial value of assets.

Your Funded Ratio:

| | 12/31/2016 | 12/31/2015 |
|--------------|------------|------------|
| Funded Ratio | 86% | 90% |

Michigan Law requires that pension plans be pre-funded, meaning money is set aside now to pay for future benefits. Pension plans are usually funded by employer and employee contributions, and investment income.

How quickly a plan attains the 100% funding goal depends on many factors such as:

- · The current funded ratio
- The future experience of the plan
- · The amortization period

It is more important to look at the trend in the funded ratio over a period of time than at a particular point in time.

Your Required Employer Contributions:

Your computed employer contributions are shown in the following table. Employee contributions, if any, are in addition to the computed employer contributions. Changes to the assumptions and methods based on the 2015 Experience Study were first reflected in the December 31, 2015 valuations. The impact of these changes is being phased-in over a 5 year period. The phase-in allows the employer to spread the impact of the new assumptions over 5 fiscal years. This valuation reflects the second year of the phase-in.

Your minimum required contribution is the amount in the "Phase-in" columns. By default, MERS will invoice you the phased-in contribution amount, but strongly encourages you to contribute more than the minimum required contribution. If for 2017 your municipality is making employer contributions based on rates without the phase-in applied, contact MERS to ensure this rate is used again for 2018 and not the defaulted phase-in rates.

| | Percentage of Payroll | | | | Monthly \$ Based on Projected Payroll | | | | |
|------------------------|-----------------------|--------------------|--------------------|--------------------|---------------------------------------|--------------------|--------------------|--------------------|--|
| | Phase-in | No Phase-in | Phase-in | No Phase-in | Phase-in | No Phase-in | Phase-in | No Phase-in | |
| Valuation Date: | 12/31/2016 | 12/31/2016 | 12/31/2015 | 12/31/2015 | 12/31/2016 | 12/31/2016 | 12/31/2015 | 12/31/2015 | |
| Fiscal Year Beginning: | October 1, 2018 | October 1, 2018 | October 1, 2017 | October 1, 2017 | October 1, 2018 | October 1, 2018 | October 1, 2017 | October 1, 2017 | |
| Division | | | | | · | | | | |
| 01 - General | - | - | - | - | \$ 11,360 | \$ 18,380 | \$ 6,386 | \$ 25,718 | |
| 02 - Sheriff POAM | - | - | - | - | 22,652 | 31,061 | 29,530 | 52,750 | |
| 09 - UAW Managers | - | - | - | - | 58,667 | 72,500 | 67,615 | 105,819 | |
| 10 - UAWProfessional | - | - | - | - | 5,083 | 6,727 | 3,326 | 7,778 | |
| 11 - Gnrl Local486 | - | - | - | - | 6,153 | 7,446 | 10,548 | 13,720 | |
| 13 - Sheriff/Cooks | - | - | - | - | 944 | 1,361 | 835 | 1,859 | |
| 14 - Nurses | - | - | - | - | 7,876 | 9,031 | 11,864 | 15,056 | |
| 15 - Hith Dept | - | - | - | - | 18,598 | 22,012 | 25,798 | 35,222 | |
| 16 - Elctd Commsnrs | - | - | - | - | 2,188 | 2,815 | 2,838 | 4,574 | |
| 17 - Animal Control | - | - | - | - | 1,899 | 2,250 | 2,682 | 3,654 | |
| 18 - Judges | _ | - | - | - | 0 | 0 | 0 | 0 | |
| 19 - Dist Judges | - | - | - | - | 3,710 | 4,064 | 5,442 | 6,314 | |
| 20 - Sheriff FOP | - | - | - | - | 840 | 840 | 908 | 908 | |
| 21 - Shrff/Lts/Capts | - | - | - | - | 26,860 | 29,203 | 41,648 | 47,408 | |
| 23 - P.O.A.M. Non 312 | - | - | - | - | 7,903 | 9,964 | 2,527 | 7,579 | |
| 91 - Juvenile Probtn | - | - | - | - | 3,929 | 4,433 | 6,401 | 7,789 | |
| 92 - Dist Court Prob | - | - | - | - | 2,897 | 3,332 | 4,559 | 5,759 | |
| 93 - Pros Attys Union | - | - | - | - | 5,663 | 6,707 | 8,259 | 11,135 | |
| 94 - Upper Management | - | - | - | - | 15,845 | 18,152 | 21,269 | 25,177 | |
| 95 - NonUnion Mgmnt | - | - | - | - | 603 | 603 | 0 | 0 | |
| 96 - UAW Para prof. | - | - | - | - | 190 | 199 | 188 | 200 | |
| Municipality Total | | | | | \$ 203,860 | \$ 251,080 | \$ 252,623 | \$ 378,419 | |

Employee contribution rates reflected in the valuations are shown below:

| | Employee Contribution Rate | | | | |
|-----------------------|----------------------------|------------|--|--|--|
| Valuation Date: | 12/31/2016 | 12/31/2015 | | | |
| Division | | | | | |
| 01 - General | 3.88% | 3.88% | | | |
| 02 - Sheriff POAM | 4.00% | 4.00% | | | |
| 09 - UAW Managers | 3.20% | 3.20% | | | |
| 10 - UAWProfessional | 0.00% | 0.00% | | | |
| 11 - Gnrl Local486 | 0.00% | 0.00% | | | |
| 13 - Sheriff/Cooks | 1.00% | 1.00% | | | |
| 14 - Nurses | 0.00% | 0.00% | | | |
| 15 - Hith Dept | 0.00% | 0.00% | | | |
| 16 - Elctd Commsnrs | 0.00% | 0.00% | | | |
| 17 - Animal Control | 0.00% | 0.00% | | | |
| 18 - Judges | 0.00% | 0.00% | | | |
| 19 - Dist Judges | 0.00% | 0.00% | | | |
| 20 - Sheriff FOP | 0.00% | 0.00% | | | |
| 21 - Shrff/Lts/Capts | 0.00% | 0.00% | | | |
| 23 - P.O.A.M. Non 312 | 4.00% | 4.00% | | | |
| 91 - Juvenile Probtn | 3.45% | 3.45% | | | |
| 92 - Dist Court Prob | 3.84% | 3.84% | | | |
| 93 - Pros Attys Union | 0.00% | 0.00% | | | |
| 94 - Upper Management | 0.00% | 0.00% | | | |
| 95 - NonUnion Mgmnt | 0.00% | 0.00% | | | |
| 96 - UAW Para prof. | 4.34% | 4.34% | | | |

The employer may contribute more than the minimum required contributions, as these additional contributions will earn investment income and may result in lower future contribution requirements.

MERS strongly encourages employers to contribute more than the minimum contribution shown above.

If you are interested in making additional contributions, please contact MERS and they can assist you with evaluating your options.

How and Why Do These Numbers Change?

In a defined benefit plan contributions vary from one annual actuarial valuation to the next as a result of the following:

- Changes in benefit provisions (see Table 2)
- Changes in actuarial assumptions and methods (see the <u>Appendix</u>)
- Experience of the plan (investment experience and demographic experience); this is the difference between actual experience of the plan and the actuarial assumptions. For example:
 - o Lower actual investment returns would result in higher required employer contributions, and vice-versa.

- o Smaller than assumed pay increases would lower required employer contributions.
- o Reductions in the number of active employees would lower required contribution dollars, but would usually increase the contribution rate expressed as a percentage of (the now lower) payroll.
- o Retirements at earlier ages than assumed would usually increase required employer contributions.
- o More non-vested terminations of employment than assumed would decrease required contributions.
- o More disabilities or survivor (death) benefits than assumed would increase required contributions.
- o Longer lifetimes after retirement than assumed would increase required employer contributions.

Actuarial valuations do not affect the ultimate cost of the plan; the benefit payments (current and future) determine the cost of the plan. Actuarial valuations only affect the timing of the contributions into the plan. Because assumptions are for the long term, plan experience will not match the actuarial assumptions in any given year (except by coincidence). Each annual actuarial valuation will adjust the required employer contributions up or down based on the prior year's actual experience.

Comments on Asset Smoothing

The actuarial value of assets, used to determine both your funded ratio and your required employer contribution, is based on a smoothed value of assets (10-year smoothing prior to 2016; 5-year smoothing beginning in 2016). A smoothing method reduces the volatility of the valuation results, which affects your required employer contribution and funded ratio. The smoothed actuarial rate of return for 2016 was 5.14%.

As of December 31, 2016 the actuarial value of assets is 108% of market value. This means that meeting the actuarial assumption in the next few years will require average annual market returns that exceed the 7.75% investment return assumption.

If the December 31, 2016 valuation results were based on market value on that date instead of smoothed funding value: i) the funded percent of your entire municipality would be 80% (instead of 86%); and ii) your total employer contribution requirement for the fiscal year starting October 1, 2018 would be \$4,052,592 (instead of \$3,012,960).

The asset smoothing method is a powerful tool for reducing the volatility of your required employer contributions. However, if the current 8% difference between the smoothed value and the market value of assets is not made up, the result would be gradual increases in your employer contribution requirement over the next few years (to around the levels described above).

Risk Characteristics of Defined Benefit Plans

It is important to understand that Defined Benefit retirement plans, the plan sponsor, and the plan participants are exposed to certain risks. While risks cannot be eliminated entirely, they can be managed through various strategies. Below are a few examples of risk (this is not an all-inclusive list):

- Economic investment return, wage inflation, etc.
- Demographic longevity, disability, retirement, etc.
- Plan Sponsor and Employees contribution volatility, attract/retain employees, etc.

The MERS Retirement Board adopts certain assumptions and methods to manage the economic and demographic risks, and the contribution volatility risks. For example, the investment risk is the largest economic risk and is managed by having a balanced portfolio and a clearly defined investment strategy. Demographic risks are managed by preparing special studies called experience studies on a regular basis to determine if the assumptions used are reasonable compared to the experience. Risk may be managed through a plan design that provides benefits that are sustainable in the long run. An Experience Study is completed every five years to review the assumptions and methods. The next Experience Study will be completed in 2020.

Alternate Scenarios to Estimate the Potential Volatility of Results ("What If Scenarios")

The calculations in this report are based on assumptions about long-term economic and demographic behavior. These assumptions will never materialize in a given year, except by coincidence. Therefore the results will vary from one year to the next. The volatility of the results depends upon the characteristics of the plan. For example:

- Open divisions that have substantial assets compared to their active employee payroll will have more volatile employer contribution rates due to investment return fluctuations.
- Open divisions that have substantial accrued liability compared to their active employee payroll will have more volatile employer contribution rates due to demographic experience fluctuations.
- Small divisions will have more volatile contribution patterns than larger divisions because statistical fluctuations are relatively larger among small populations.
- Shorter amortization periods result in more volatile contribution patterns.

The analysis in this section is intended to review the potential volatility of the actuarial valuation results. It is important to note that calculations in this report are mathematical estimates based upon assumptions regarding future events, which may or may not materialize. Actuarial calculations can and do vary from one valuation to the next, sometimes significantly depending on the group's size.

Many assumptions are important in determining the required employer contributions. In the table below, we show the impact of varying one actuarial assumption: the future annual rate of investment return. Lower investment returns would result in higher required employer contributions, and vice-versa.

The relative impact of each investment return scenario below will vary from year to year, as the participant demographics change. The impact of each scenario should be analyzed for a given year, not from year to year. The results in the table are based on the December 31, 2016 valuation, and are for the municipality in total, not by division. These results do not reflect a 5-year phase in of the impact of the new actuarial assumptions.

| | Assumed Future Annual Smoothed Rate of Investment Return | | | | | | |
|--|--|----------------|-------------------------|----------------|--|--|--|
| | Lower Future A | Annual Returns | Valuation Assumption | Higher Returns | | | |
| 12/31/2016 Valuation Results | 5.75% | 6.75% | 7.75% | 8.75% | | | |
| Accrued Liability | \$ 179,182,374 | \$ 162,684,511 | \$ 148,676,653 | \$ 136,682,175 | | | |
| Valuation Assets | \$ 128,382,162 | \$ 128,382,162 | \$ 128,382,162 | \$ 128,382,162 | | | |
| Unfunded Accrued Liability | \$ 50,800,212 | \$ 34,302,349 | \$ 20,294,491 | \$ 8,300,013 | | | |
| Funded Ratio | 72% | 79% | 86% | 94% | | | |
| Monthly Normal Cost | \$ 28,205 | \$ 20,974 | \$ 15,538 | \$ 11,445 | | | |
| Monthly Amortization Payment | \$ 590,274 | \$ 414,743 | \$ 235,542 | \$ 115,959 | | | |
| Total Employer Contribution ¹ | \$ 618,479 | \$ 435,717 | \$ 251,080 | \$ 127,404 | | | |

¹ If assets exceed accrued liabilities for a division, the division's amortization payment is negative and is used to reduce the division's employer contribution requirement. If the overfunding credit is larger than the normal cost, the division's full credit is included in the municipality's amortization payment above but the division's total contribution requirement is zero. This can cause the displayed normal cost and amortization payment to not add up to the displayed total employer contribution.

Projection Scenarios

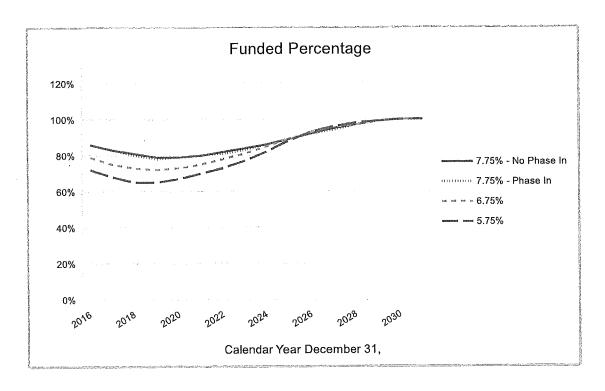
The next two pages show projections of the plan's funded ratio and computed employer contributions under the actuarial assumptions used in the valuation and alternate assumed long-term investment return scenarios. All four projections take into account the past investment losses that will continue to affect the smoothed rate of return in the short term. Under the 7.75% scenarios, two sets of projections are shown:

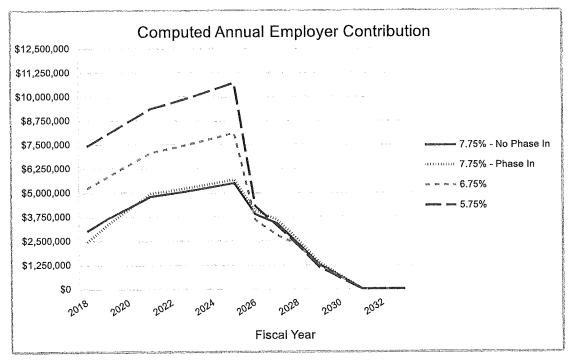
- Based on the phase-in over 5 fiscal years (beginning in 2017) of the increased contribution requirements associated with the new actuarial assumptions. This projects your minimum required contribution.
- Based on no phase-in of the increased contribution requirements.

The 7.75% scenarios provide an estimate of computed employer contributions based on current actuarial assumptions, and a projected 7.75% market return. The other two scenarios may be useful if the municipality chooses to budget more conservatively, and make contributions in addition to the minimum requirements. The 6.75% and 5.75% projections provide an indication of the potential required employer contribution if MERS were to realize investment returns of 6.75% and 5.75% over the long-term.

The projections are shown both in tabular and graphical form in total for the employer. The tables show projections for six years. The graphs show projections for fifteen years.

| Valuation Year Ending 12/31 | Fiscal Year Beginning 10/1 | Acti | uarial Accrued Liability | Va | luation Assets | Funded Percentage | | nputed Annual Employer Contribution |
|-----------------------------------|----------------------------------|-------------|-----------------------------|---------------|------------------|----------------------|----|---|
| 7 75% Assur | ned Interest | Disco | unt Rate and Fut | hure <i>l</i> | Annual Market Ra | te of Return | | |
| | EAR PHASE- | | unt itale and i u | | amaan markee ka | | | |
| 2016 | 2018 | \$ | 148,676,653 | \$ | 128,382,162 | 86% | \$ | 2,446,320 |
| 2017 | 2019 | * | 147,700,000 | Ť | 122,800,000 | 83% | ľ | 3,370,000 |
| 2018 | 2020 | | 146,300,000 | | 117,700,000 | 80% | | 4,160,000 |
| 2019 | 2021 | | 144,400,000 | | 112,700,000 | 78% | | 4,960,000 |
| 2020 | 2022 | | 142,000,000 | | 111,500,000 | 79% | | 5,120,000 |
| 2021 | 2023 | | 139,300,000 | | 110,800,000 | 80% | | 5,290,000 |
| 2021 | , +320 | | , , , | | • | | | |
| NO 5-YEA | I AR PHASE-IN | | | | | | | |
| 2016 | 2018 | \$ | 148,676,653 | \$ | 128,382,162 | 86% | \$ | 3,012,960 |
| 2017 | 2019 | 1 | 147,700,000 | | 122,800,000 | 83% | | 3,670,000 |
| 2018 | 2020 | | 146,300,000 | | 117,800,000 | 81% | | 4,220,000 |
| 2019 | 2021 | | 144,400,000 | | 113,400,000 | 79% | 1 | 4,810,000 |
| 2020 | 2022 | | 142,000,000 | | 112,500,000 | 79% | | 4,960,000 |
| 2021 | 2023 | | 139,300,000 | | 111,900,000 | 80% | | 5,130,000 |
| 8 | | | unt Rate and Fu | ture a | Annual Market R | ate of Return | | |
| 2016 | AR PHASE-IN | \$ | 162,684,511 | \$ | 128,382,162 | 79% | \$ | 5,228,604 |
| 2016 | 2018 2019 | 1 2 | 161,300,000 | Ψ | 121,600,000 | 75% | ۳ | 5,840,000 |
| 2017 | 2019 | | 159,500,000 | | 116,000,000 | 73% | | 6,450,000 |
| 2018 | 2020 | | 157,100,000 | | 112,700,000 | 72% | | 7,080,000 |
| 2019 | 2021 | | 154,300,000 | | 112,900,000 | 73% | | 7,320,000 |
| 2020 | 2022 | | 151,100,000 | | 113,600,000 | 75% | | 7,560,000 |
| | | 1 | | | | | | |
| 5.75% Assu | । med Interest | Disco | ount Rate and Fu | ı ture . | Annual Market R | ate of Return | 1 | |
| | AR PHASE-IN | | | 1 | | 1 | | |
| 2016 | 2018 | \$ | 179,182,374 | \$ | 128,382,162 | 72% | \$ | 7,421,748 |
| 2017 | 2019 | 1 | 177,300,000 | | 120,400,000 | 68% | | 8,070,000 |
| 2018 | 2020 | | 174,900,000 | | 114,100,000 | 65% | | 8,700,000 |
| 2019 | 2021 | 1 | 172,000,000 | | 112,000,000 | 65% | | 9,360,000 |
| 2020 | 2022 | | 168,600,000 | | 113,400,000 | 67% | | 9,670,000 |
| 2021 | 2023 | | 164,800,000 | | 115,300,000 | 70% | | 10,000,000 |





Employer Contribution Details For the Fiscal Year Beginning October 1, 2018

Table 1

| | Emp | oloyer Contribution | ons ¹ | | * | | | |
|---|-------------|---|---|---|--|--|--------------------------------|---|
| Division | Normal Cost | Payment of the Unfunded Accrued Liability ⁴ | Computed Employer Contribut. No Phase-In | Computed Employer Contribut. With Phase-In | Blended ER Rate No Phase-In ⁵ | Blended ER Rate With Phase-In ⁵ | Employee Contribut. Rate | Employee Contribut. Conversion Factor ² |
| Percentage of Payroll | | | | | | | | |
| 01 - General | - | - | - | - | | | 3.88% | |
| 02 - Sheriff POAM | - | - | - | - | | | 4.00% | |
| 09 - UAW Managers | - | - | + | - | | | 3.20% | |
| 10 - UAWProfessional | - | - | - | - | | | 0.00% | |
| 11 - Gnrl Local486 | - | - | - | - | | | 0.00% | |
| 13 - Sheriff/Cooks | - | - | - | - | | | 1.00% | |
| 14 - Nurses | - | - | - | - | | | 0.00% | |
| 15 - Hlth Dept | - | _ | - | - | | | 0.00% | |
| 16 - Elctd Commsnrs | - | - | - | - | | | 0.00% | |
| 17 - Animal Control | - | - | - | - | | } | 0.00% | |
| 18 - Judges | - | - | - | - | | | 0.00% | |
| 19 - Dist Judges | - | - | - | - | | | 0.00% | 1 |
| 20 - Sheriff FOP | - | _ | - | - | | | 0.00% | |
| 21 - Shrff/Lts/Capts | - | - | - | - | | | 0.00% | ļ. |
| 23 - P.O.A.M. Non 312 | - | - | - | - | • | | 4.00% | |
| 91 - Juvenile Probtn | - | - | - | - | | | 3.45% | |
| 92 - Dist Court Prob | - | - | - | - | | | 3.84% | |
| 93 - Pros Attys Union | - | - | - | - | | | 0.00% | ľ |
| 94 - Upper Management | - | - | - | - | | | 0.00% | |
| 95 - NonUnion Mgmnt | - | - | - | - | | | 0.00% | |
| 96 - UAW Para prof. | _ | - | - | - | | | 4.34% | |
| Estimated Monthly Contribution ³ | | | | | | | | |
| 01 - General | \$ 1,564 | \$ 16,816 | \$ 18,380 | \$ 11,360 | | | [| |
| 02 - Sheriff POAM | 4,111 | | 1 | 1 | I . | | | |

| Table 1 (continued) | | | | | | | | |
|--|-------------|---|---|---|--|--|--------------------------------|---|
| | Emp | loyer Contribution | ons ¹ | | | | | |
| Division | Normal Cost | Payment of the Unfunded Accrued Liability ⁴ | Computed Employer Contribut, No Phase-In | Computed Employer Contribut. With Phase-In | Blended ER Rate No Phase-In ⁵ | Blended ER Rate With Phase-In ⁵ | Employee Contribut. Rate | Employee Contribut. Conversion Factor ² |
| 09 - UAW Managers | 2,111 | 70,389 | 72,500 | 58,667 | | | | |
| 10 - UAWProfessional | 1,798 | 4,929 | 6,727 | 5,083 | | | | |
| 11 - Gnrl Local486 | 1,020 | 6,426 | 7,446 | 6,153 | | | | |
| 13 - Sheriff/Cooks | 0 | 1,361 | 1,361 | 944 | | | | |
| 14 - Nurses | 295 | 8,736 | 9,031 | 7,876 | | | | |
| 15 - Hith Dept | 657 | 21,355 | 22,012 | 18,598 | | | | |
| 16 - Elctd Commsnrs | 0 | 2,815 | 2,815 | 2,188 | | | | |
| 17 - Animal Control | 0 | 2,250 | 2,250 | 1,899 | | | | |
| 18 - Judges | 0 | 0 | 0 | 0 | | | | |
| 19 - Dist Judges | 219 | 3,845 | 4,064 | 3,710 | | | | ĺ |
| 20 - Sheriff FOP | 840 | 0 | 840 | 840 | | | | • |
| 21 - Shrff/Lts/Capts | 725 | 28,478 | 29,203 | 26,860 | | | | |
| 23 - P.O.A.M. Non 312 | 1,575 | 8,389 | 9,964 | 7,903 | | | | |
| 91 - Juvenile Probtn | 0 | 4,433 | 4,433 | 3,929 | | | ļ | |
| 92 - Dist Court Prob | 0 | 3,332 | 3,332 | 2,897 | E . | | ĺ | |
| 93 - Pros Attys Union | 424 | 6,283 | 6,707 | | i | | | |
| 94 - Upper Management | 0 | 18,152 | 18,152 | 1 | | | | |
| 95 - NonUnion Mgmnt | 0 | 603 | 603 | 603 | | | | |
| 96 - UAW Para prof. | 199 | 1 | 199 | | | | | |
| Total Municipality | \$ 15,538 | \$ 235,542 | \$ 251,080 | \$ 203,860 | | | | |
| Estimated Annual Contribution ³ | \$ 186,456 | \$ 2,826,504 | \$ 3,012,960 | \$ 2,446,320 | <u> </u> | | <u> </u> | |

¹ The above employer contribution requirements are in addition to the employee contributions, if any.

If employee contributions are increased/decreased by 1.00% of pay, the employer contribution requirement will decrease/increase by the Employee Contribution Conversion Factor. The conversion factor is usually under 1%, because employee contributions may be refunded at termination of employment, and not used to fund retirement pensions. Employer contributions will all be used to

³ For divisions that are open to new hires, estimated contributions are based on projected fiscal year payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts. For divisions that will have no new hires (le closed divisions), invoices will be based on the above dollar amounts which are based on projected fiscal year payroll. See description of Open Divisions and Closed Divisions in the <u>Appendix</u>.

If projected assets exceed projected liabilities as of the beginning of the October 1, 2018 fiscal year, the negative unfunded accrued liability is treated as overfunding credit and is used to reduce the contribution. This amortization is used to reduce the employer contribution rate. Note that if the overfunding credit is larger than the normal cost, the full credit is shown above but the total contribution requirement is zero. This will cause the displayed normal cost and unfunded accrued liability contributions to not add across.

| SAGINAW CO (7303) |
|--|
| |
| For linked divisions, the employer will be invoiced the Computed Employer Contribution with Phase-in rate shown above for each linked division (a contribution rate for the open division; a contribution dollar for the closed-but-linked division), unless the employer elects to contribute the Blended Employer Contribution rate shown above, by contacting MERS at 800-767-2308. |
| Please see the Comments on Asset Smoothing in the Executive Summary of this report. |
| |
| |
| |
| |
| |

Benefit Provisions

Table 2

01 - General: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| | 55/20 | 55/20 |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 3.88% | 3.88% |
| DC Plan for New Hires: | 1/1/2000 | 1/1/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

02 - Sheriff POAM: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) |
| Employee Contributions: | 4% | 4% |
| DC Plan for New Hires: | 9/30/2000 | 9/30/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

09 - UAW Managers: Closed to new hires

| a) Belleu Seller (1 a. et ulltum ₹ 1 a. a. e. until u. e. e | 2016 Valuation | 2015 Valuation | |
|--|----------------------------|----------------------------|--|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) | |
| Normal Retirement Age: | 60 | 60 | |
| Vesting: | 6 years | 6 years | |
| Early Retirement (Unreduced): | 55/15 | 55/15 | |
| , | 25 and Out | 25 and Out | |
| Early Retirement (Reduced): | • | - | |
| Final Average Compensation: | 5 years | 5 years | |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) | |
| Employee Contributions: | 3.20% | 3.20% | |
| DC Plan for New Hires: | 3/1/1998 | 3/1/1998 | |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) | |
| | | | |

10 - UAWProfessional: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.25% Multiplier (80% max) | 2.25% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| • | 55/15 | 55/15 |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 3/1/1998 | 3/1/1998 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

11 - Gnrl Local486: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.25% Multiplier (80% max) | 2.25% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/20 | 55/20 |
| Early Retirement (Reduced): | 50/25 | 50/25 |
| | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 9/30/2000 | 9/30/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

13 - Sheriff/Cooks: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| • | 55/20 | 55/20 |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 1% | 1% |
| DC Plan for New Hires: | 9/30/2000 | 9/30/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

14 - Nurses: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|---|----------------------------|----------------------------|
| Benefit Multiplier: | 2.25% Multiplier (80% max) | 2.25% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| • | 55/20 | 55/20 |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 1/1/1999 | 1/1/1999 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

15 - Hith Dept: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.25% Multiplier (80% max) | 2.25% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| · · · · · · | 55/20 | 55/20 |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 1/1/1999 | 1/1/1999 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

16 - Elctd Commsnrs: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/15 | 55/15 |
| | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 3 years | 3 years |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 3/1/1998 | 3/1/1998 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

17 - Animal Control: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.25% Multiplier (80% max) | 2.25% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| , | 55/20 | 55/20 |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 1/1/2000 | 1/1/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

18 - Judges: Closed to new hires

| and the plant of the second of | 2016 Valuation | 2015 Valuation |
|--|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/15 | 55/15 |
| , | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 5 years | 5 years |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 1/1/1999 | 1/1/1999 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

19 - Dist Judges: Closed to new hires

| | 2016 Valuation | 2015 Valuation | |
|-------------------------------|----------------------------|----------------------------|---|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) | - |
| Normal Retirement Age: | 60 | 60 | |
| Vesting: | 6 years | 6 years | |
| Early Retirement (Unreduced): | 55/15 | 55/15 | |
| , | 25 and Out | 25 and Out | |
| Early Retirement (Reduced): | - | - | |
| Final Average Compensation: | 5 years | 5 years | |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) | |
| Employee Contributions: | 0% | 0% | |
| DC Plan for New Hires: | 1/1/1999 | 1/1/1999 | |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) | |

20 - Sheriff FOP: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/15 | 55/15 |
| | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 1/1/2000 | 1/1/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

21 - Shrff/Lts/Capts: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/15 | 55/15 |
| • | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 5 years | 5 years |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 1/1/1999 | 1/1/1999 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

23 - P.O.A.M. Non 312: Closed to new hires

| and provide the figure of the section of the sectio | 2016 Valuation | 2015 Valuation |
|--|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) |
| Employee Contributions: | 4% | 4% |
| DC Plan for New Hires: | 9/30/2000 | 9/30/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

91 - Juvenile Probtn: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/20 | 55/20 |
| - | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 3.45% | 3.45% |
| DC Plan for New Hires: | 9/30/2000 | 9/30/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

92 - Dist Court Prob: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/20 | 55/20 |
| | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 3.84% | 3.84% |
| DC Plan for New Hires: | 1/1/2000 | 1/1/2000 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

93 - Pros Attys Union: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.25% Multiplier (80% max) | 2.25% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| | 55/20 | 55/20 |
| Early Retirement (Reduced): | 55/15 | 55/15 |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 1/1/1999 | 1/1/1999 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

94 - Upper Management: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/15 | 55/15 |
| , | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 3 years | 3 years |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) |
| Employee Contributions: | 0% | 0% |
| RS50% Percentage: | 50% | 50% |
| DC Plan for New Hires: | 6/20/2006 | 6/20/2006 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

95 - NonUnion Mgmnt: Closed to new hires

| | 2016 Valuation | 2015 Valuation |
|-------------------------------|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 55/15 | 55/15 |
| , | 25 and Out | 25 and Out |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 5 years | 5 years |
| COLA for Future Retirees: | 2.50% (Non-Compound) | 2.50% (Non-Compound) |
| Employee Contributions: | 0% | 0% |
| DC Plan for New Hires: | 6/20/2006 | 6/20/2006 |
| Act 88: | Yes (Adopted 10/1/2005) | Yes (Adopted 10/1/2005) |
| | | • |

96 - UAW Para prof.: Closed to new hires

| and the state of t | 2016 Valuation | 2015 Valuation |
|--|----------------------------|----------------------------|
| Benefit Multiplier: | 2.50% Multiplier (80% max) | 2.50% Multiplier (80% max) |
| Normal Retirement Age: | 60 | 60 |
| Vesting: | 6 years | 6 years |
| Early Retirement (Unreduced): | 50/25 | 50/25 |
| , | 55/15 | 55/15 |
| Early Retirement (Reduced): | - | - |
| Final Average Compensation: | 5 years | 5 years |
| Employee Contributions: | 4.34% | 4.34% |
| DC Plan for New Hires: | 6/20/2006 | 6/20/2006 |
| Act 88: | Yes (Adopted 10/19/1965) | Yes (Adopted 10/19/1965) |

Participant Summary

Table 3

| | 2016 | 2016 Valuation 201 | | | Va | aluation | 2016 Valuation | | | |
|----------------------------|--------|--------------------|--------------------------------|--|-----------|--------------------------------|----------------|--|--|--|
| Division | Number | | Annual Payroll ¹ | Number | | Annual Payroll ¹ | Average Age | Average Benefit Service ² | Average Eligibility Service ² | |
| 01 - General | | | | | | | | | | |
| Active Employees | 11 | \$ | 431,557 | 11 | \$ | 428,361 | 60.7 | 29.9 | 29.9 | |
| Vested Former Employees | 14 | | 96,128 | 16 | | 107,909 | 54.2 | 12.1 | 12.9 | |
| Retirees and Beneficiaries | 146 | | 1,756,980 | 150 | | 1,776,694 | 73.1 | | | |
| 02 - Sheriff POAM | | | | | | | | | | |
| Active Employees | 8 | \$ | 526,172 | 8 | \$ | 515,941 | 49.9 | 24.7 | 25.4 | |
| Vested Former Employees | 5 | | 32,690 | 6 | | 43,586 | 53.8 | 6.5 | 9.4 | |
| Retirees and Beneficiaries | 59 | | 1,445,058 | 59 | | 1,438,627 | 69.9 | | | |
| 09 - UAW Managers | | T | | | Γ | | | | | |
| Active Employees | 5 | \$ | 343,888 | 6 | \$ | 378,264 | 56.6 | 30.8 | 30.8 | |
| Vested Former Employees | 3 | | 55,598 | 4 | | 77,317 | 48.6 | 12.6 | 12.6 | |
| Retirees and Beneficiaries | 91 | | 3,216,675 | 90 | | 3,096,059 | 66.6 | | | |
| 10 - UAWProfessional | | T | | | | | | | | |
| Active Employees | 5 | \$ | 295,880 | 6 | \$ | 338,418 | 57.5 | 28.2 | 28.2 | |
| Vested Former Employees | 8 | | 40,963 | 12 | | 58,283 | 55.2 | 6.9 | 9.0 | |
| Retirees and Beneficiaries | 61 | | 923,298 | 56 | | 881,071 | 69.6 | | | |
| 11 - Gnrl Local486 | | 十 | | | T | | | | | |
| Active Employees | 3 | \$ | 151,267 | 3 | \$ | 137,587 | 52.6 | 25.8 | 25.8 | |
| Vested Former Employees | 2 | | 19,562 | 2 | l | 19,562 | 52.4 | 12.6 | 19.7 | |
| Retirees and Beneficiaries | 12 | | 233,565 | 1 | | 257,463 | 65.8 | | | |
| 13 - Sheriff/Cooks | | ╁ | | 1 | T | | | | | |
| Active Employees | 0 | \$ | 0 | 0 | \$ | 0 | 0.0 | 0.0 | 0.0 | |
| Vested Former Employees | 0 | 1 | 0 | 0 | | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 6 | | 123,484 | ı | | 126,004 | 66.5 | , | | |
| 14 - Nurses | | + | | | t | | | | | |
| Active Employees | 1 | \$ | 56,236 | 1 | \$ | 51,524 | 56.9 | 28.5 | 28.5 | |
| Vested Former Employees | 2 | | 23,507 | 4 | ľ | 31,248 | 1 | 12.4 | 13.2 | |
| Retirees and Beneficiaries | 19 | | 307,335 | | | 300,038 | 8 | | | |
| 15 - Hith Dept | + | ╁ | | | \dagger | | | | | |
| Active Employees | 4 | \$ | 129,843 | 6 | \$ | 212,736 | 57.3 | 31.0 | 31.0 | |
| Vested Former Employees | 10 | | 56,434 | 1 | [| 56,408 | | 9.5 | 11.4 | |
| Retirees and Beneficiaries | 69 | | 871,945 | | | 818,804 | | | | |
| 16 - Elctd Commsnrs | 1 | ╁ | 07.1,010 | + | + | 2.0,00 | 1 | | | |
| Active Employees | 0 | \$ | 0 | 0 | \$ | | 0.0 | 0.0 | 0.0 | |
| Vested Former Employees | 2 | ۱" | 6,027 | | " | 19,626 | B | 10.0 | 10.0 | |
| • • | 16 | | 163,122 | | | 151,541 | 1 | , 0.0 | 10.0 | |
| Retirees and Beneficiaries | 1 10 | 1 | 103,122 | 13 | 1 | 101,041 | / 1.0 | | | |

Table 3 (continued)

| | 2016 Valuation | | | 2015 | Va | aluation | 2016 Valuation | | | |
|----------------------------|--|----------|--------------------------------|----------|----------|--------------------------------|----------------|--|--|--|
| Division | Number | | Annual Payroli ¹ | Number | | Annual Payroll ¹ | Average Age | Average Benefit Service ² | Average Eligibility Service ² | |
| 17 - Animal Control | | | | | | | | | | |
| Active Employees | 0 | \$ | 0 | 0 | \$ | 0 | 0.0 | 0.0 | 0.0 | |
| Vested Former Employees | 0 | ľ | 0 | 0 | | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 5 | | 108,647 | 5 | | 108,647 | 59.2 | | | |
| 18 - Judges | <u> </u> | | | | \vdash | | | | | |
| Active Employees | 1 | \$ | 27,434 | 1 | \$ | 27,434 | 72.1 | 44.0 | 44.0 | |
| Vested Former Employees | 0 | ľ | 0 | 0 | | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 5 | | 52,594 | 5 | | 52,300 | 80.5 | | | |
| 19 - Dist Judges | | \vdash | | | \vdash | | | | | |
| Active Employees | 1 | \$ | 27,434 | 2 | \$ | 54,868 | 61.3 | 26.4 | 26.4 | |
| Vested Former Employees | 0 | | 0 | 0 | İ | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 5 | | 80,186 | 4 | | 51,998 | 77.3 | | | |
| 20 - Sheriff FOP | - | H | | | ┢ | | | | | |
| Active Employees | 2 | \$ | 144,119 | 2 | \$ | 145,475 | 53.0 | 29.0 | 29.0 | |
| Vested Former Employees | 0 | | Ó | 0 | | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 14 | | 516,631 | 14 | | 516,631 | 65.3 | | | |
| 21 - Shrff/Lts/Capts | | H | | † | 一 | ·· | | | | |
| Active Employees | 1 | \$ | 77,865 | 1 | \$ | 72,833 | 45.2 | 24.9 | 24.9 | |
| Vested Former Employees | 0 | | . 0 | 0 | | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 13 | | 545,186 | 13 | | 536,585 | 64.6 | | | |
| 23 - P.O.A.M. Non 312 | | T | | <u> </u> | 十 | | | | | |
| Active Employees | 3 | \$ | 226,794 | 3 | \$ | 184,022 | 55.1 | 24.5 | 24.5 | |
| Vested Former Employees | 1 | | 9,062 | 1 | | 9,062 | 49.6 | 9.3 | 9.3 | |
| Retirees and Beneficiaries | 18 | | 610,817 | 18 | | 598,662 | 63.1 | | | |
| 91 - Juvenile Probtn | | T | | | T | | | | | |
| Active Employees | 0 | \$ | 0 | 0 | \$ | 0 | 0.0 | 0.0 | 0.0 | |
| Vested Former Employees | 0 | | 0 | 0 | | ¹ . 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 5 | | 141,912 | 5 | 1 | 141,912 | 68.3 | | | |
| 92 - Dist Court Prob | | T | | 1 | 十 | | | | | |
| Active Employees | 0 | \$ | 0 | 0 | \$ | 0 | 0.0 | 0.0 | 0.0 | |
| Vested Former Employees | 2 | | 36,258 | 2 | | 36,258 | 53.5 | 15.5 | 17.2 | |
| Retirees and Beneficiaries | 3 | | 103,649 | • | | 103,649 | 63.2 | | | |
| 93 - Pros Attys Union | | T | | | T | | | | | |
| Active Employees | 1 | \$ | 79,554 | 1 | \$ | 78,257 | 66.7 | 27.9 | 27.9 | |
| Vested Former Employees | 0 | | . 0 | B | | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 7 | | 270,805 | 7 | | 270,805 | 66.0 | | | |
| 94 - Upper Management | + | 十 | <u> </u> | 1 | T | | | | | |
| Active Employees | 0 | \$ | 0 | 1 | \$ | 81,689 | 0.0 | 0.0 | 0.0 | |
| Vested Former Employees | 0 | | 0 | | | Ċ | | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 10 | | 587,346 | ı | | 590,131 | 65.7 | | | |

Table 3 (continued)

| | 2016 Valuation | | | 2015 Valuation | | | 2016 Valuation | | | |
|----------------------------|----------------|----|--------------------------------|----------------|----|--------------------------------|----------------|--|--|--|
| Division | Number | | Annual Payroll ¹ | Number | | Annual Payroli ¹ | Average Age | Average Benefit Service ² | Average Eligibility Service ² | |
| 95 - NonUnion Mgmnt | | | | | | | | | | |
| Active Employees | 0 | \$ | 0 | 0 | \$ | 0 | 0.0 | 0.0 | 0.0 | |
| Vested Former Employees | 0 | | 0 | 0 | İ | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 1 | | 62,676 | 1 | | 54,822 | 68.2 | | | |
| 96 - UAW Para prof. | | | | | | | | | | |
| Active Employees | 1 | \$ | 61,040 | 1 | \$ | 60,310 | 60.4 | 34.5 | 34.5 | |
| Vested Former Employees | 0 | | 0 | 0 | | 0 | 0.0 | 0.0 | 0.0 | |
| Retirees and Beneficiaries | 4 | | 70,874 | 4 | | 70,874 | 60.0 | | | |
| Total Municipality | | Г | | | Г | | | | İ | |
| Active Employees | 47 | \$ | 2,579,083 | 53 | \$ | 2,767,719 | 56.6 | 28.5 | 28.6 | |
| Vested Former Employees | 49 | | 376,229 | 60 | | 459,259 | 54.1 | 10.2 | 11.9 | |
| Retirees and Beneficiaries | <u>569</u> | | 12,192,785 | <u>563</u> | | 11,943,317 | 69.9 | | | |
| Total Participants | 665 | 1 | | 676 | | | | | | |

¹ Annual payroll for active employees; annual deferred benefits payable for vested former employees; annual benefits being paid for retirees and beneficiaries.

² Description can be found under Miscellaneous and Technical Assumptions in the Appendix.

Reported Assets (Market Value)

Table 4

| | 2016 Val | luation | 2015 Valuation | | | |
|-----------------------|--------------------------------------|-----------------------|--------------------------------------|-----------------------|--|--|
| Division | Employer and Retiree ¹ | Employee ² | Employer and Retiree ¹ | Employee ² | | |
| 01 - General | \$ 16,552,975 | \$ 247,045 | \$ 16,481,622 | \$ 267,884 | | |
| 02 - Sheriff POAM | 15,858,251 | 654,028 | 15,500,321 | 627,646 | | |
| 09 - UAW Managers | 30,900,919 | 170,009 | 30,631,639 | 214,940 | | |
| 10 - UAWProfessional | 9,281,064 | 148,078 | 9,151,369 | 150,435 | | |
| 11 - Gnrl Local486 | 2,599,645 | . 0 | 2,546,161 | 0 | | |
| 13 - Sheriff/Cooks | 1,035,626 | 0 | 1,046,972 | 0 | | |
| 14 - Nurses | 2,068,913 | 3,196 | 2,137,857 | 7,484 | | |
| 15 - Hlth Dept | 6,828,665 | 44,051 | 6,901,252 | 48,703 | | |
| 16 - Elctd Commsnrs | 1,168,466 | 1,537 | 1,193,737 | 1,524 | | |
| 17 - Animal Control | 932,209 | 0 | 935,199 | 0 | | |
| 18 - Judges | 700,474 | 67,276 | 672,979 | 66,709 | | |
| 19 - Dist Judges | 433,706 | 0 | 377,659 | 50,036 | | |
| 20 - Sheriff FOP | 6,409,094 | 58,810 | 6,225,804 | 58,314 | | |
| 21 - Shrff/Lts/Capts | 4,243,142 | 51,721 | 4,247,185 | 51,285 | | |
| 23 - P.O.A.M. Non 312 | 7,534,225 | 192,678 | 7,306,024 | 182,058 | | |
| 91 - Juvenile Probtn | 894,241 | 0 | 936,855 | 0 | | |
| 92 - Dist Court Prob | 1,061,529 | 19,752 | 1,044,745 | 19,585 | | |
| 93 - Pros Attys Union | 2,508,458 | 0 | 2,499,407 | 0 | | |
| 94 - Upper Management | 4,827,480 | 0 | 4,727,597 | 31,840 | | |
| 95 - NonUnion Mgmnt | 554,689 | 0 | 557,946 | 0 | | |
| 96 - UAW Para prof. | 1,105,349 | 35,676 | 1,055,668 | 32,748 | | |
| Municipality Total | \$117,499,120 | \$ 1,693,857 | \$116,177,998 | \$ 1,811,191 | | |
| Combined Reserves | \$ 119,1 | 92,977 | \$ 117,989,189 | | | |

¹ Reserve for Employer Contributions and Benefit Payments

The December 31, 2016 valuation assets are equal to 1.077095 times the reported market value of assets (compared to 1.135382 as of December 31, 2015). The derivation of valuation assets is described, and detailed calculations of valuation assets are shown, in the <u>Appendix</u>.

² Reserve for Employee Contributions

Flow of Valuation Assets

Table 5

| Year Ended | 마음에 아이들은 그 사람이 나면 그는 그림을 하는데 이어 하다 | | Employer Contributions Employee Investment | | Benefit | Employee Contribution | Net | Valuation Asset | |
|---------------|------------------------------------|------------|--|--------------|----------------|--------------------------|-----------|--------------------|--|
| 12/31 | Required | Additional | Contributions | Income | Payments | Refunds | Transfers | Balance | |
| 2006 | \$ 2,718,336 | | \$ 216,719 | \$ 6,996,640 | \$ (5,982,593) | \$ (2,893) | \$ 68,448 | \$ 91,934,019 | |
| 2007 | 3,042,832 | | 220,975 | 7,437,289 | (6,482,434) | (4,111) | 91,996 | 96,240,566 | |
| 2008 | 3,161,891 | | 187,842 | 3,863,205 | (7,805,116) | (3,575) | 421,418 | 96,066,231 | |
| 2009 | 3,106,777 | | 134,975 | 2,741,524 | (9,213,487) | 0 | 144,517 | 92,980,537 | |
| 2010 | 3,114,732 | | 127,851 | 3,822,727 | (9,373,913) | 0 | 80,076 | 90,752,010 | |
| 2011 | 4,151,136 | s 0 | 122,049 | 3,948,807 | (9,603,674) | 0 | 114,001 | 89,484,329 | |
| 2012 | 4,672,827 | 0 | 112,274 | 3,535,581 | (9,781,816) | 0 | 19,921 | 88,043,116 | |
| 2013 | 5,342,289 | 0 | 99,342 | 4,817,789 | (10,624,888) | 0 | 122,127 | 87,799,775 | |
| 2014 | 397,713 | 51,623,224 | 80,446 | 10,421,658 | (11,277,194) | 0 | 22,954 | 139,068,576 | |
| 2015 | 378,427 | 0 | 70,844 | 5,986,477 | (11,572,834) | 0 | 31,311 | 133,962,801 | |
| 2016 | 401,184 | 0 | 61,122 | 5,839,888 | (11,882,833) | 0 | 0 | 128,382,162 | |

Notes:

Transfers in and out are usually related to the transfer of participants between municipalities, and to employer and employee payments for service credit purchases (if any) that the governing body has approved.

Additional employer contributions, if any, are shown separately starting in 2011. Prior to 2011, additional contributions are combined with the required employer contributions.

In the actuarial valuation additional employer contributions are combined with required contributions and used to reduce computed future required employer contributions.

The investment income column reflects the recognized investment income based on the smoothed value of assets. It does not reflect the market value investment return in any given year.

Actuarial Accrued Liabilities and Valuation Assets As of December 31, 2016

Table 6

| Table 6 | | Actuarial | | | **** <u>\</u> | (0 | Unfunded Overfunded) Accrued |
|----------------------------|--------|----------------|------|----------------|----------------|----|------------------------------------|
| Division | Acc | rued Liability | Valu | ation Assets ' | Percent Funded | | Liabilities |
| 01 - General | 1. | | | | 40.00/ | Ψ. | 4 440 004 |
| Active Employees | \$ | 2,735,457 | \$ | 1,319,396 | 48.2% | \$ | 1,416,061 |
| Vested Former Employees | | 699,947 | l | 699,947 | 100.0% | | 0 |
| Retirees And Beneficiaries | | 16,067,602 | | 16,067,602 | 100.0% | | 0 |
| Pending Refunds | | <u>8,273</u> | ١. | <u>8,273</u> | 100.0% | ٦ | <u>0</u> |
| Total | \$ | 19,511,279 | \$ | 18,095,218 | 92.7% | \$ | 1,416,061 |
| 02 - Sheriff POAM | 1 | | ١. | | | | |
| Active Employees | \$ | 3,965,002 | \$ | 1,697,751 | 42.8% | \$ | 2,267,251 |
| Vested Former Employees | | 249,171 | ļ | 249,171 | 100.0% | | 0 |
| Retirees And Beneficiaries | | 15,837,801 | | 15,837,801 | 100.0% | 1 | 0 |
| Pending Refunds | | <u>570</u> | | <u>570</u> | 100.0% | | <u>0</u> |
| Total | \$ | 20,052,544 | \$ | 17,785,293 | 88.7% | \$ | 2,267,251 |
| 09 - UAW Managers | | | | | | | |
| Active Employees | \$ | 2,553,371 | \$ | 117,615 | 4.6% | \$ | 2,435,756 |
| Vested Former Employees | 1 | 317,731 | | 52,380 | 16.5% | | 265,351 |
| Retirees And Beneficiaries | | 36,557,236 | 1 | 33,296,346 | 91.1% | ļ | 3,260,890 |
| Pending Refunds | l | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 39,428,338 | \$ | 33,466,341 | 84.9% | \$ | 5,961,997 |
| 10 - UAWProfessional | | | | | | | |
| Active Employees | \$ | 1,648,688 | \$ | 1,234,462 | 74.9% | \$ | 414,226 |
| Vested Former Employees | | 308,497 | | 308,497 | 100.0% | | 0 |
| Retirees And Beneficiaries | | 8,613,123 | 1 | 8,613,123 | 100.0% | İ | 0 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 10,570,308 | \$ | 10,156,082 | 96.1% | \$ | 414,226 |
| 11 - Gnrl Local486 | | | | | | T | |
| Active Employees | \$ | 867,909 | \$ | 275,872 | 31.8% | \$ | 592,037 |
| Vested Former Employees | | 131,993 | | 131,993 | 100.0% | | 0 |
| Retirees And Beneficiaries | | 2,392,200 | | 2,392,200 | 100.0% | | 0 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 3,392,102 | \$ | 2,800,065 | 82.5% | \$ | 592,037 |
| 13 - Sheriff/Cooks | \top | | T | | | 1 | |
| Active Employees | \$ | 0 | \$ | 0 | 0.0% | \$ | . 0 |
| Vested Former Employees | 1 | 0 | | 0 | 0.0% | | 0 |
| Retirees And Beneficiaries | | 1,236,899 | | 1,115,468 | 90.2% | 1 | 121,431 |
| Pending Refunds | | , , <u>o</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 1,236,899 | \$ | 1,115,468 | 90.2% | \$ | 121,431 |

| Division | Acc | Actuarial rued Liability | Valu | ation Assets ¹ | Percent Funded | (0 | Jnfunded verfunded) Accrued Liabilities |
|----------------------------|--|-----------------------------|------|---------------------------|----------------|----|--|
| 14 - Nurses | | | | | | | |
| Active Employees | \$ | 327,659 | \$ | 0 | 0.0% | \$ | 327,659 |
| Vested Former Employees | | 144,008 | | 3,196 | 2.2% | | 140,812 |
| Retirees And Beneficiaries | p de la companya de l | 2,496,362 | | 2,228,662 | 89.3% | | 267,700 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 2,968,029 | \$ | 2,231,858 | 75.2% | \$ | 736,171 |
| 15 - Hith Dept | | | | | | | |
| Active Employees | \$ | 818,848 | \$ | 18,981 | 2.3% | \$ | 799,867 |
| Vested Former Employees | 1 | 405,227 | | 21,422 | 5.3% | | 383,805 |
| Retirees And Beneficiaries | | 7,986,573 | | 7,362,165 | 92.2% | | 624,408 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 9,210,648 | \$ | 7,402,568 | 80.4% | \$ | 1,808,080 |
| 16 - Elctd Commsnrs | | | | | | | |
| Active Employees | \$ | 0 | \$ | 0 | 0.0% | \$ | 0 |
| Vested Former Employees | | 63,316 | | 0 | 0.0% | | 63,316 |
| Retirees And Beneficiaries | | 1,434,745 | | 1,260,204 | 87.8% | | 174,541 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 1,498,061 | \$ | 1,260,204 | 84.1% | \$ | 237,857 |
| 17 - Animal Control | | | | | | | |
| Active Employees | \$ | 0 | \$ | 0 | 0.0% | \$ | 0 |
| Vested Former Employees | | 0 | | 0 | 0.0% | | 0 |
| Retirees And Beneficiaries | | 1,199,513 | 1 | 1,004,078 | 83.7% | | 195,435 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 1,199,513 | \$ | 1,004,078 | 83.7% | \$ | 195,435 |
| 18 - Judges | | | | | | | |
| Active Employees | \$ | 334,036 | \$ | 417,511 | 125.0% | \$ | (83,475) |
| Vested Former Employees | | 0 | | 0 | 0.0% | 1 | C |
| Retirees And Beneficiaries | | 409,429 | ļ | 409,429 | 100.0% | | C |
| Pending Refunds | 1 | <u>0</u> | | <u>0</u> | 0.0% | | <u>C</u> |
| Total | \$ | 743,465 | \$ | 826,940 | 111.2% | \$ | (83,475) |
| 19 - Dist Judges | | | | | | | |
| Active Employees | \$ | 187,232 | \$ | 0 | 0.0% | \$ | 187,232 |
| Vested Former Employees | | 0 | | 0 | 0.0% | | (|
| Retirees And Beneficiaries | | 663,218 | | 467,143 | 70.4% | | 196,075 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>(</u> |
| Total | \$ | 850,450 | \$ | 467,143 | 54.9% | \$ | 383,307 |
| 20 - Sheriff FOP | | | | | | | |
| Active Employees | \$ | 1,031,553 | \$ | 1,485,438 | 144.0% | \$ | (453,885 |
| Vested Former Employees | l | 0 | | 0 | 0.0% | | (|
| Retirees And Beneficiaries | | 5,481,109 | | 5,481,109 | 100.0% | | (|
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>(</u> |
| Total | \$ | 6,512,662 | \$ | 6,966,547 | 107.0% | \$ | (453,885 |

| | | | la de la | | | , | Unfunded |
|--|---|----------------|-----------------|---------------------------|----------------|----|---------------------|
| 경기 보다가 되는 사람들이 하면 하는 사람들이 되었다. 보통 등 사람들은 물을 보고 있다. 그는 사람들이 되었다. | | | | | | (1 | Overfunded) |
| | | Actuarial | \ /_ I | _4: | Percent Funded | | Accrued Liabilities |
| Division | ACC | rued Liability | vaiu | ation Assets ¹ | reicent runded | | Liabilities |
| 21 - Shrff/Lts/Capts | | | _ | E 4 704 | 0.007 | 4 | EZE 400 |
| Active Employees | \$ | 627,190 | \$ | 51,721 | 8.2% | \$ | 575,469 |
| Vested Former Employees | | 0 | | 0 | 0.0% | | 0 |
| Retirees And Beneficiaries | - | 6,719,466 | | 4,574,254 | 68.1% | | 2,145,212 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | 0 |
| Total | \$ | 7,346,656 | \$ | 4,625,975 | 63.0% | \$ | 2,720,681 |
| 23 - P.O.A.M. Non 312 | 1 | | | | | | |
| Active Employees | \$ | 1,508,044 | \$ | 775,039 | 51.4% | \$ | 733,005 |
| Vested Former Employees | İ | 53,241 | | 53,241 | 100.0% | | 0 |
| Retirees And Beneficiaries | | 7,494,329 | | 7,494,329 | 100.0% | | 0 |
| Pending Refunds | l | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 9,055,614 | \$ | 8,322,609 | 91.9% | \$ | 733,005 |
| 91 - Juvenile Probtn | \top | - | T | | | | |
| Active Employees | \$ | 0 | \$ | 0 | 0.0% | \$ | 0 |
| Vested Former Employees | | 0 | | 0 | 0.0% | | 0 |
| Retirees And Beneficiaries | 1 | 1,343,414 | | 963,183 | 71.7% | | 380,231 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 1,343,414 | \$ | 963,183 | 71.7% | \$ | 380,231 |
| 92 - Dist Court Prob | | | 1 | | | Ī | |
| Active Employees | \$ | 0 | \$ | 0 | 0.0% | \$ | 0 |
| Vested Former Employees | ľ | 339,688 | | 48,577 | 14.3% | | 291,111 |
| Retirees And Beneficiaries | | 1,116,065 | | 1,116,065 | 100.0% | | 0 |
| Pending Refunds | 1 | <u>0</u> | | <u>0</u> | 0.0% | | 0 |
| Total | \$ | 1,455,753 | \$ | 1,164,642 | 80.0% | \$ | 291,111 |
| 93 - Pros Attys Union | - | 1,100,100 | +` - | 7,107,01 | | H | |
| - | \$ | 406,336 | \$ | 0 | 0.0% | \$ | 406,336 |
| Active Employees Vested Former Employees | ١٣ | 400,000 | * | 0 | 0.0% | ` | 0 |
| Retirees And Beneficiaries | | 2,825,805 | | 2,701,848 | 95.6% | | 123,957 |
| · | - 1 | 2,023,003 | | 2,701,040 | 0.0% | | 0 |
| Pending Refunds | \$ | 3,232,141 | \$ | 2,701,848 | 83.6% | \$ | 530,293 |
| Total | | 3,232,141 | +* | 2,701,040 | 00.070 | ╀ | 000,200 |
| 94 - Upper Management | • | 0 | \$ | 0 | 0.0% | \$ | C |
| Active Employees | \$ | 0 | Ψ | 0 | | ۱۳ | C |
| Vested Former Employees | | 7 202 042 | | 0 5 400 655 | 0.0% 72.2% | | 2,004,257 |
| Retirees And Beneficiaries | | 7,203,912 | | 5,199,655 | | | · |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | | 2,004,257 |
| Total | \$ | 7,203,912 | \$ | 5,199,655 | 72.2% | \$ | ∠,∪∪4,∠5/ |
| 95 - NonUnion Mgmnt | ١. | | _ | _ | 2.25 | _ | , |
| Active Employees | \$ | 0 | \$ | 0 | 0.0% | \$ | (|
| Vested Former Employees | | 0 | | 0 | 0.0% | | (|
| Retirees And Beneficiaries | 1 | 649,311 | | 597,453 | 92.0% | | 51,858 |
| Pending Refunds | | <u>0</u> | | <u>0</u> | 0.0% | _ | <u>)</u> |
| Total | \$ | 649,311 | \$ | 597,453 | 92.0% | \$ | 51,858 |

| Division | Ac | Actuarial crued Liability | Val | uation Assets ¹ | Percent Funded | (0 | Unfunded Overfunded) Accrued Liabilities |
|----------------------------|----|---------------------------|-----|----------------------------|----------------|----|---|
| 96 - UAW Para prof. | | | | | | | (15.450) |
| Active Employees | \$ | 425,432 | \$ | 438,870 | 103.2% | \$ | (13,438) |
| Vested Former Employees | | 0 | | 0 | 0.0% | | 0 |
| Retirees And Beneficiaries | | 790,122 | | 790,122 | 100.0% | | 0 |
| Pending Refunds | 1 | <u>0</u> | | <u>0</u> | 0.0% | | <u>0</u> |
| Total | \$ | 1,215,554 | \$ | 1,228,992 | 101.1% | \$ | (13,438) |
| Total Municipality | | | | | | | |
| Active Employees | \$ | 17,436,757 | \$ | 7,832,656 | 44.9% | \$ | 9,604,101 |
| Vested Former Employees | | 2,712,819 | | 1,568,424 | 57.8% | | 1,144,395 |
| Retirees and Beneficiaries | 1 | 128,518,234 | | 118,972,239 | 92.6% | | 9,545,995 |
| Pending Refunds | | <u>8,843</u> | | <u>8,843</u> | 100.0% | | <u>o</u> |
| Total Participants | \$ | 148,676,653 | \$ | 128,382,162 | 86.3% | \$ | 20,294,491 |

¹ Includes both employer and employee assets.

Please see the Comments on Asset Smoothing in the Executive Summary of this report.

See Section 46 of the Plan Document for MERS Fiscal Responsibility policy, on the MERS website at: https://employerportal.mersofmich.com/SharePointFormsService/Default.aspx?Publication=MERSPlanDocument.pdf.

Actuarial Accrued Liabilities - Comparative Schedule

Table 7

| lable / | | | | Unfunded |
|----------------|---------------|------------------|---------|----------------------|
| Valuation Date | Actuarial | | Percent | (Overfunded) Accrued |
| December 31 | | Valuation Assets | Funded | Liabilities |
| | | | | |
| 2002 | \$ 99,129,201 | \$ 78,295,659 | 79% | \$ 20,833,542 |
| 2003 | 104,989,442 | 82,375,896 | 78% | 22,613,546 |
| 2004 | 109,067,562 | 85,338,467 | 78% | 23,729,095 |
| 2005 | 116,271,363 | 87,919,362 | 76% | 28,352,001 |
| 2006 | 121,846,675 | 91,934,019 | 75% | 29,912,656 |
| 2007 | 125,684,383 | 96,240,566 | 77% | 29,443,817 |
| 2008 | 135,044,418 | 96,066,231 | 71% | 38,978,187 |
| 2009 | 136,732,789 | 92,980,537 | 68% | 43,752,252 |
| 2010 | 137,462,228 | 90,752,010 | 66% | 46,710,218 |
| 2011 | 138,842,567 | 89,484,329 | 64% | 49,358,238 |
| 2012 | 139,666,340 | 88,043,116 | 63% | 51,623,224 |
| 2013 | 142,346,636 | 87,799,775 | 62% | 54,546,861 |
| 2014 | 142,319,348 | 139,068,576 | 98% | 3,250,772 |
| 2015 | 149,188,929 | 133,962,801 | 90% | 15,226,128 |
| 2016 | 148,676,653 | 128,382,162 | 86% | 20,294,491 |

Notes: Actuarial assumptions were revised for the 2004, 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 8-01: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 19,290,800 | \$ 16,150,497 | 84% | \$ 3,140,303 |
| 2007 | 19,151,816 | 15,020,616 | 78% | 4,131,200 |
| 2008 | 20,136,698 | 14,740,482 | 73% | 5,396,216 |
| 2009 | 20,208,441 | 13,880,928 | 69% | 6,327,513 |
| 2010 | 20,009,957 | 13,239,723 | 66% | 6,770,234 |
| 2011 | 20,294,019 | 12,758,515 | 63% | 7,535,504 |
| 2012 | 19,902,410 | 12,289,309 | 62% | 7,613,101 |
| 2013 | 19,599,081 | 12,057,652 | 62% | 7,541,429 |
| 2014 | 19,285,438 | 19,890,908 | 103% | (605,470) |
| 2015 | 19,932,465 | 19,017,088 | 95% | 915,377 |
| 2016 | 19,511,279 | 18,095,218 | 93% | 1,416,061 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-01: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee | |
|----------------|----------|--------------|---------------------------|-------------------|--|
| Valuation Date | | Annual | Employer | Contribution | |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² | |
| 2006 | 52 | \$ 1,836,864 | \$ 29,798 | 3.88% | |
| 2007 | 49 | 1,663,682 | \$ 34,152 | 3.88% | |
| 2008 | 33 | 1,161,510 | \$ 45,027 | 3.88% | |
| 2009 | 33 | 1,226,665 | \$ 55,451 | 3.88% | |
| 2010 | 28 | 1,004,444 | \$ 62,454 | 3.88% | |
| 2011 | 25 | 939,216 | \$ 78,236 | 3.88% | |
| 2012 | 23 | 853,425 | \$ 90,848 | 3.88% | |
| 2013 | 14 | 516,849 | \$ 108,120 | 3.88% | |
| 2014 | 13 | 481,646 | \$ 1,886 | 3.88% | |
| 2015 | 11 | 428,361 | \$ 25,718 | 3.88% | |
| 2016 | 11 | 431,557 | \$ 18,380 | 3.88% | |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

See the Benefit Provision History on page 78 for past benefit provision changes.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-02: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 16,093,985 | \$ 10,766,307 | 67% | \$ 5,327,678 |
| 2007 | 17,404,182 | 12,459,731 | 72% | 4,944,451 |
| 2008 | 18,097,683 | 12,530,204 | 69% | 5,567,479 |
| 2009 | 18,063,622 | 12,048,918 | 67% | 6,014,704 |
| 2010 | 18,167,949 | 11,679,664 | 64% | 6,488,285 |
| 2011 | 18,461,481 | 11,607,609 | 63% | 6,853,872 |
| 2012 | 18,511,500 | 11,349,958 | 61% | 7,161,542 |
| 2013 | 18,705,014 | 11,360,963 | 61% | 7,344,051 |
| 2014 | 19,002,807 | 18,813,211 | 99% | 189,596 |
| 2015 | 20,164,050 | 18,311,403 | 91% | 1,852,647 |
| 2016 | 20,052,544 | 17,785,293 | 89% | 2,267,251 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-02: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 18 | \$ 993,622 | \$ 39,039 | 4.00% |
| 2007 | 16 | 1,051,611 | \$ 37,574 | 4.00% |
| 2008 | . 9 | 556,792 | \$ 44,048 | 4.00% |
| 2009 | 9 | 551,299 | \$ 51,357 | 4.00% |
| 2010 | 9 | 556,221 | \$ 60,714 | 4.00% |
| 2011 | 9 | 575,442 | \$ 72,406 | 4.00% |
| 2012 | 9 | 571,396 | \$ 87,744 | 4.00% |
| 2013 | 9 | 566,327 | \$ 110,062 | 4.00% |
| 2014 | 9 | 570,129 | \$ 4,699 | 4.00% |
| 2015 | 8 | 515,941 | \$ 52,750 | 4.00% |
| 2016 | 8 | 526,172 | \$ 31,061 | 4.00% |

For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

See the Benefit Provision History on page 78 for past benefit provision changes.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 09 - UAW Managers

Table 8-09: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date | Actuarial | | | Unfunded (Overfunded) Accrued |
|----------------|-------------------|------------------|----------------|-------------------------------------|
| December 31 | Accrued Liability | Valuation Assets | Percent Funded | Liabilities |
| 2006 | \$ 28,210,689 | \$ 18,621,355 | 66% | \$ 9,589,334 |
| 2007 | 29,073,477 | 22,201,445 | 76% | 6,872,032 |
| 2008 | 33,655,793 | 23,427,965 | 70% | 10,227,828 |
| 2009 | 34,503,332 | 22,726,869 | 66% | 11,776,463 |
| 2010 | 34,834,216 | 22,176,771 | 64% | 12,657,445 |
| 2011 | 34,545,933 | 21,684,388 | 63% | 12,861,545 |
| 2012 | 35,308,533 | 21,474,996 | 61% | 13,833,537 |
| 2013 | 36,644,206 | 22,159,800 | 61% | 14,484,406 |
| 2014 | 36,649,796 | 36,329,218 | 99% | 320,578 |
| 2015 | 38,994,658 | 35,022,651 | 90% | 3,972,007 |
| 2016 | 39,428,338 | 33,466,341 | 85% | 5,961,997 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-09: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|--------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 35 | \$ 1,958,416 | \$ 73,549 | 3.20% |
| 2007 | 31 | 1,823,338 | \$ 51,074 | 3.20% |
| 2008 | 19 | 1,138,639 | \$ 82,298 | 3.20% |
| 2009 | 19 | 1,215,989 | \$ 101,445 | 3.20% |
| 2010 | 18 | 1,183,514 | \$ 116,671 | 3.20% |
| 2011 | 17 | 1,055,648 | \$ 131,408 | 3.20% |
| 2012 | 16 | 907,495 | \$ 165,447 | 3.20% |
| 2013 | 12 | 745,579 | \$ 213,459 | 3.20% |
| 2014 | 10 | 606,318 | \$ 3,814 | 3.20% |
| 2015 | 6 | 378,264 | \$ 105,819 | 3.20% |
| 2016 | 5 | 343,888 | \$ 72,500 | 3.20% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 10 - UAWProfessional

Table 8-10: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date | Actuarial | | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|----------------|-------------------|------------------|----------------|--|
| December 31 | Accrued Liability | Valuation Assets | | |
| 2006 | \$ 10,791,050 | \$ 9,182,137 | 85% | \$ 1,608,913 |
| 2007 | 10,624,411 | 8,526,110 | 80% | 2,098,301 |
| 2008 | 10,967,405 | 8,098,960 | 74% | 2,868,445 |
| 2009 | 11,121,208 | 7,664,257 | 69% | 3,456,951 |
| 2010 | 11,117,976 | 7,365,110 | 66% | 3,752,866 |
| 2011 | 11,280,242 | 7,230,548 | 64% | 4,049,694 |
| 2012 | 11,301,354 | 7,063,933 | 63% | 4,237,421 |
| 2013 | 10,905,024 | 6,712,078 | 62% | 4,192,946 |
| 2014 | 10,375,412 | 10,926,965 | 105% | (551,553) |
| 2015 | 10,764,715 | 10,561,101 | 98% | 203,614 |
| 2016 | 10,570,308 | 10,156,082 | 96% | 414,226 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-10: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroli | Contribution ¹ | Rate ² |
| 2006 | 19 | \$ 968,541 | \$ 16,191 | 0.00% |
| 2007 | 18 | 920,299 | \$ 18,457 | 0.00% |
| 2008 | 9 | 499,823 | \$ 24,076 | 0.00% |
| 2009 | 8 | 494,821 | \$ 30,422 | 0.00% |
| 2010 | 8 | 489,208 | \$ 35,429 | 0.00% |
| 2011 | 9 | 526,168 | \$ 43,203 | 0.00% |
| 2012 | 9 | 530,101 | \$ 52,269 | 0.00% |
| 2013 | 7 | 381,854 | \$ 61,756 | 0.00% |
| 2014 | 6 | 331,768 | \$ 2,178 | 0.00% |
| 2015 | 6 | 338,418 | \$ 7,778 | 0.00% |
| 2016 | 5 | 295,880 | \$ 6,727 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-11: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 2,504,715 | \$ 1,803,532 | 72% | \$ 701,183 |
| 2007 | 2,899,137 | 2,034,522 | 70% | 864,615 |
| 2008 | 3,076,394 | 2,001,772 | 65% | 1,074,622 |
| 2009 | 2,975,074 | 1,924,910 | 65% | 1,050,164 |
| 2010 | 3,037,755 | 1,908,266 | 63% | 1,129,489 |
| 2011 | 3,067,062 | 1,884,508 | 61% | 1,182,554 |
| 2012 | 3,075,893 | 1,857,645 | 60% | 1,218,248 |
| 2013 | 3,202,910 | 1,857,577 | 58% | 1,345,333 |
| 2014 | 3,333,390 | 3,003,686 | 90% | 329,704 |
| 2015 | 3,499,114 | 2,890,865 | 83% | 608,249 |
| 2016 | 3,392,102 | 2,800,065 | 83% | 592,037 |

Table 9-11: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 12 | \$ 468,009 | \$ 7,171 | 0.00% |
| 2007 | 10 | 404,372 | \$ 7,734 | 0.00% |
| 2008 | 6 | 231,803 | \$ 8,774 | 0.00% |
| 2009 | 6 | 237,885 | \$ 8,974 | 0.00% |
| 2010 | 5 | 198,973 | \$ 10,041 | 0.00% |
| 2011 | 5 | 198,723 | \$ 11,570 | 0.00% |
| 2012 | 5 | 198,311 | \$ 13,264 | 0.00% |
| 2013 | 3 | 112,301 | \$ 16,461 | 0.00% |
| 2014 | 3 | 148,770 | \$ 2,300 | 0.00% |
| 2015 | 3 | 137,587 | \$ 13,720 | 0.00% |
| 2016 | 3 | 151,267 | \$ 7,446 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-13: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 985,858 | \$ 1,015,896 | 103% | \$ (30,038) |
| 2007 | 1,171,090 | 819,506 | 70% | 351,584 |
| 2008 | 1,326,516 | 804,034 | 61% | 522,482 |
| 2009 | 1,329,109 | 732,077 | 55% | 597,032 |
| 2010 | 1,326,847 | 703,697 | 53% | 623,150 |
| 2011 | 1,226,506 | 630,201 | 51% | 596,305 |
| 2012 | 1,219,383 | 613,436 | 50% | 605,947 |
| 2013 | 1,207,932 | 610,762 | 51% | 597,170 |
| 2014 | 1,236,883 | 1,260,847 | 102% | (23,964) |
| 2015 | 1,277,816 | 1,188,713 | 93% | 89,103 |
| 2016 | 1,236,899 | 1,115,468 | 90% | 121,431 |

Table 9-13: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 5 | \$ 157,360 | \$ 863 | 1.00% |
| 2007 | 5 . | 193,655 | \$ 3,466 | 1.00% |
| 2008 | 2 | 65,922 | \$ 4,017 | 1.00% |
| 2009 | 2 | 71,599 | \$ 4,737 | 1.00% |
| 2010 | 2 | 69,882 | \$ 5,273 | 1.00% |
| 2011 | 1 | 36,711 | \$ 5,144 | 1.00% |
| 2012 | 1 | 36,820 | \$ 6,023 | 1.00% |
| 2013 | 1 | 36,441 | \$ 7,000 | 1.00% |
| 2014 | 0 | 0 | \$0 | 0.00% |
| 2015 | 0 | 0 | \$ 1,859 | 1.00% |
| 2016 | 0 | 0 | \$ 1,361 | 1.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 14 - Nurses

Table 8-14: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date | Actuarial | | | Unfunded (Overfunded) Accrued |
|----------------|-------------------|------------------|----------------|-------------------------------------|
| December 31 | Accrued Liability | Valuation Assets | Percent Funded | Liabilities |
| 2006 | \$ 3,203,370 | \$ 2,379,270 | 74% | \$ 824,100 |
| 2007 | 2,969,253 | 2,449,313 | 82% | 519,940 |
| 2008 | 2,935,889 | 2,476,099 | 84% | 459,790 |
| 2009 | 2,921,768 | 2,359,304 | 81% | 562,464 |
| 2010 | 2,910,479 | 2,239,647 | 77% | 670,832 |
| 2011 | 2,928,508 | 2,091,845 | 71% | 836,663 |
| 2012 | 2,910,595 | 1,948,813 | 67% | 961,782 |
| 2013 | 2,922,195 | 1,835,982 | 63% | 1,086,213 |
| 2014 | 2,884,099 | 2,626,807 | 91% | 257,292 |
| 2015 | 3,001,013 | 2,435,782 | 81% | 565,231 |
| 2016 | 2,968,029 | 2,231,858 | 75% | 736,171 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-14: Computed Employer Contributions - Comparative Schedule

| | Active | Employees | Computed | Employee |
|----------------|--------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 6 | \$ 308,972 | \$ 7,474 | 0.00% |
| 2007 | 6 | 288,478 | \$ 4,989 | 0.00% |
| 2008 | 3 | 146,401 | \$ 3,965 | 0.00% |
| 2009 | 3 | 155,484 | \$ 5,462 | 0.00% |
| 2010 | 3 | 152,204 | \$ 6,892 | 0.00% |
| 2011 | 2 | 102,584 | \$ 8,985 | 0.00% |
| 2012 | 2 | 102,354 | \$ 11,906 | 0.00% |
| 2013 | 1 | 50,662 | \$ 16,120 | 0.00% |
| 2014 | 1 | 50,699 | \$ 278 | 0.00% |
| 2015 | 1 | 51,524 | \$ 15,056 | 0.00% |
| 2016 | 1 | 56,236 | \$ 9,031 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 15 - Hlth Dept

Table 8-15: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date | Actuarial | | | Unfunded (Overfunded) Accrued Liabilities |
|----------------|-------------------|------------------|----------------|--|
| December 31 | Accrued Liability | Valuation Assets | Percent Funded | |
| 2006 | \$ 7,919,060 | \$ 6,494,700 | 82% | \$ 1,424,360 |
| 2007 | 8,229,526 | 6,315,433 | 77% | 1,914,093 |
| 2008 | 8,626,232 | 6,194,171 | 72% | 2,432,061 |
| 2009 | 8,646,444 | 5,925,674 | 69% | 2,720,770 |
| 2010 | 8,720,667 | 5,763,585 | 66% | 2,957,082 |
| 2011 | 8,636,783 | 5,571,562 | 65% | 3,065,221 |
| 2012 | 8,573,513 | 5,489,782 | 64% | 3,083,731 |
| 2013 | 8,770,805 | 5,461,552 | 62% | 3,309,253 |
| 2014 | 8,828,631 | 8,332,651 | 94% | 495,980 |
| 2015 | 9,191,875 | 7,890,854 | 86% | 1,301,021 |
| 2016 | 9,210,648 | 7,402,568 | 80% | 1,808,080 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-15: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 29 | \$ 949,862 | \$ 15,552 | 0.00% |
| 2007 | 27 | 928,261 | \$ 17,031 | 0.00% |
| 2008 | 17 | 570,302 | \$ 21,152 | 0.00% |
| 2009 | 17 | 590,015 | \$ 24,674 | 0.00% |
| 2010 | 15 | 528,044 | \$ 28,366 | 0.00% |
| 2011 | 14 | 499,392 | \$ 32,648 | 0.00% |
| 2012 | 14 | 494,260 | \$ 38,031 | 0.00% |
| 2013 | 8 | 255,145 | \$ 48,902 | 0.00% |
| 2014 | 7 | 238,745 | \$ 1,400 | 0.00% |
| 2015 | 6 | 212,736 | \$ 35,222 | 0.00% |
| 2016 | 4 | 129,843 | \$ 22,012 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 16 - Elctd Commsnrs

Table 8-16: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 1,487,088 | \$ 1,946,036 | 131% | \$ (458,948) |
| 2007 | 1,484,242 | 1,189,434 | 80% | 294,808 |
| 2008 | 1,516,883 | 1,109,081 | 73% | 407,802 |
| 2009 | 1,510,587 | 1,002,216 | 66% | 508,371 |
| 2010 | 1,522,345 | 940,103 | 62% | 582,242 |
| 2011 | 1,520,974 | 876,994 | 58% | 643,980 |
| 2012 | 1,503,643 | 816,921 | 54% | 686,722 |
| 2013 | 1,490,242 | 780,672 | . 52% | 709,570 |
| 2014 | 1,470,430 | 1,448,212 | 99% | 22,218 |
| 2015 | 1,532,560 | 1,357,078 | 89% | 175,482 |
| 2016 | 1,498,061 | 1,260,204 | 84% | 237,857 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-16: Computed Employer Contributions - Comparative Schedule

| | Active | Employees | Computed | Employee |
|----------------|--------|-----------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 7 | \$ 98,454 | \$0 | 0.00% |
| 2007 | 4 | 60,095 | \$ 2,347 | 0.00% |
| 2008 | 2 | 32,688 | \$ 3,179 | 0.00% |
| 2009 | 2 | 32,236 | \$ 4,108 | 0.00% |
| 2010 | 1 | 15,959 | \$ 5,259 | 0.00% |
| 2011 | 1 | 15,884 | \$ 6,318 | 0.00% |
| 2012 | 1 | 16,099 | \$ 7,947 | 0.00% |
| 2013 | 0 | 0 | \$ 10,167 | 0.00% |
| 2014 | 0 | 0 | \$0 | 0.00% |
| 2015 | 0 | 0 | \$ 4,574 | 0.00% |
| 2016 | 0 | 0 | \$ 2,815 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 17 - Animal Control

Table 8-17: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|-----------------------------|------------------|----------------|--|
| 2006 | \$ 929,221 | \$ 664,803 | 72% | \$ 264,418 |
| 2007 | 1,037,974 | 728,184 | 70% | 309,790 |
| 2008 | 927,730 | 743,634 | 80% | 184,096 |
| 2009 | 944,706 | 747,042 | 79% | 197,664 |
| 2010 | 970,773 | 758,479 | 78% | 212,294 |
| 2011 | 982,208 | 761,323 | 78% | 220,885 |
| 2012 | 1,016,933 | 765,397 | 75% | 251,536 |
| 2013 | 1,029,536 | 785,421 | 76% | 244,115 |
| 2014 | 1,103,126 | 1,081,161 | 98% | 21,965 |
| 2015 | 1,213,107 | 1,061,808 | 88% | 151,299 |
| 2016 | 1,199,513 | 1,004,078 | 84% | 195,435 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-17: Computed Employer Contributions - Comparative Schedule

| | Active Employees | | Computed | Employee |
|----------------|------------------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 3 | \$ 119,466 | \$ 2,437 | 0.00% |
| 2007 | 2 | 90,340 | \$ 2,671 | 0.00% |
| 2008 | 2 | 82,737 | \$ 1,870 | 0.00% |
| 2009 | 2 | 87,243 | \$ 2,118 | 0.00% |
| 2010 | 2 | 89,687 | \$ 2,448 | 0.00% |
| 2011 | 2 | 86,834 | \$ 2,761 | 0.00% |
| 2012 | 2 | 94,539 | \$ 3,567 | 0.00% |
| 2013 | 2 | 92,542 | \$ 3,993 | 0.00% |
| 2014 | 2 | 107,496 | \$ 608 | 0.00% |
| 2015 | 0 | 0 | \$ 3,654 | 0.00% |
| 2016 | 0 | 0 | \$ 2,250 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-18: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 1,118,328 | \$ 1,046,406 | 94% | \$ 71,922 |
| 2007 | 1,122,311 | 890,135 | 79% | 232,176 |
| 2008 | 870,777 | 674,588 | 77% | 196,189 |
| 2009 | 899,069 | 660,996 | 74% | 238,073 |
| 2010 | 891,720 | 658,389 | 74% | 233,331 |
| 2011 | 879,354 | 637,313 | 73% | 242,041 |
| 2012 | 867,918 | 616,065 | 71% | 251,853 |
| 2013 | 865,307 | 605,018 | 70% | 260,289 |
| 2014 | 837,054 | 854,423 | 102% | (17,369) |
| 2015 | 764,963 | 839,828 | 110% | (74,865) |
| 2016 | 743,465 | 826,940 | 111% | (83,475) |

Table 9-18: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|-----------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 3 | \$ 82,302 | \$ 1,439 | 0.00% |
| 2007 | 3 | 82,302 | \$ 1,857 | 0.00% |
| 2008 | 2 | 54,868 | \$ 1,469 | 0.00% |
| 2009 | 2 | 56,978 | \$ 1,754 | 0.00% |
| 2010 | 1 | 27,434 | \$ 1,861 | 0.00% |
| 2011 | 1 | 27,538 | \$ 2,135 | 0.00% |
| 2012 | 1 | 27,168 | \$ 2,493 | 0.00% |
| 2013 | 1 | 28,489 | \$ 3,002 | 0.00% |
| 2014 | 1 | 27,434 | \$ 0 | 0.00% |
| 2015 | 1 | 27,434 | \$ 0 | 0.00% |
| 2016 | 1 | 27,434 | \$ 0 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 19 - Dist Judges

Table 8-19: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 1,078,351 | \$ 876,742 | 81% | \$ 201,609 |
| 2007 | 1,087,270 | 853,927 | 79% | 233,343 |
| 2008 | 1,102,321 | 854,101 | 77% | 248,220 |
| 2009 | 1,211,493 | 862,841 | 71% | 348,652 |
| 2010 | 1,186,822 | 882,320 | 74% | 304,502 |
| 2011 | 1,192,004 | 906,515 | 76% | 285,489 |
| 2012 | 798,085 | 932,821 | 117% | (134,736) |
| 2013 | 783,928 | 657,120 | 84% | 126,808 |
| 2014 | 772,769 | 515,133 | 67% | 257,636 |
| 2015 | 811,675 | 485,597 | 60% | 326,078 |
| 2016 | 850,450 | 467,143 | 55% | 383,307 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-19: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|-----------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 3 | \$ 82,302 | \$ 2,151 | 0.00% |
| 2007 | 3 | 82,302 | \$ 2,139 | 0.00% |
| 2008 | . 3 | 82,302 | \$ 2,372 | 0.00% |
| 2009 | 3 | 85,467 | \$ 2,918 | 0.00% |
| 2010 | 3 | 82,302 | \$ 2,695 | 0.00% |
| 2011 | 3 | 82,614 | \$ 2,802 | 0.00% |
| 2012 | 2 | 54,336 | \$0 | 0.00% |
| 2013 | 2 | 56,978 | \$ 1,898 | 0.00% |
| 2014 | 2 | 54,868 | \$ 4,741 | 0.00% |
| 2015 | 2 | 54,868 | \$ 6,314 | 0.00% |
| 2016 | 1_ | 27,434 | \$ 4,064 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-20: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 7,838,478 | \$ 5,142,627 | 66% | \$ 2,695,851 |
| 2007 | 7,450,313 | 6,104,070 | 82% | 1,346,243 |
| 2008 | 8,118,694 | 6,319,592 | 78% | 1,799,102 |
| 2009 | 8,174,582 | 6,279,416 | 77% | 1,895,166 |
| 2010 | 8,296,149 | 6,136,690 | 74% | 2,159,459 |
| 2011 | 7,424,929 | 5,643,842 | 76% | 1,781,087 |
| 2012 | 7,465,796 | 5,584,843 | 75% | 1,880,953 |
| 2013 | 6,621,436 | 5,017,221 | 76% | 1,604,215 |
| 2014 | 6,614,575 | 7,267,704 | 110% | (653,129) |
| 2015 | 6,566,960 | 7,134,874 | 109% | (567,914) |
| 2016 | 6,512,662 | 6,966,547 | 107% | (453,885) |

Table 9-20: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 12 | \$ 968,028 | \$ 24,393 | 0.00% |
| 2007 | 11 | 721,835 | \$ 12,663 | 0.00% |
| 2008 | 8 | 556,083 | \$ 16,958 | 0.00% |
| 2009 | 8 | 582,929 | \$ 19,012 | 0.00% |
| 2010 | 7 | 506,113 | \$ 21,267 | 0.00% |
| 2011 | 5 | 367,338 | \$ 17,700 | 0.00% |
| 2012 | 5 | 359,760 | \$ 20,868 | 0.00% |
| 2013 | 3 | 208,483 | \$ 19,039 | 0.00% |
| 2014 | 3 | 215,514 | \$ 1,529 | 0.00% |
| 2015 | 2 | 145,475 | \$ 908 | 0.00% |
| 2016 | 2 | 144,119 | \$ 840 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-21: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 3,723,126 | \$ 2,156,666 | 58% | \$ 1,566,460 |
| 2007 | 3,836,042 | 2,889,583 | 75% | 946,459 |
| 2008 | 4,139,263 | 2,948,289 | 71% | 1,190,974 |
| 2009 | 4,201,089 | 2,861,615 | 68% | 1,339,474 |
| 2010 | 4,236,423 | 2,755,217 | 65% | 1,481,206 |
| 2011 | 5,020,206 | 3,121,737 | 62% | 1,898,469 |
| 2012 | 5,092,140 | 3,068,826 | 60% | 2,023,314 |
| 2013 | 6,598,786 | 3,763,079 | 57% | 2,835,707 |
| 2014 | 6,608,487 | 5,097,274 | 77% | 1,511,213 |
| 2015 | 7,282,536 | 4,880,405 | 67% | 2,402,131 |
| 2016 | 7,346,656 | 4,625,975 | 63% | 2,720,681 |

Table 9-21: Computed Employer Contributions - Comparative Schedule

| | Active Employees | | Computed | Employee |
|----------------|------------------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 3 | \$ 219,058 | \$ 11,067 | 0.00% |
| 2007 | 2 | 143,928 | \$ 6,217 | 0.00% |
| 2008 | 1 | 71,891 | \$ 8,361 | 0.00% |
| 2009 | 1 | 79,413 | \$ 10,273 | 0.00% |
| 2010 | 1 | 77,857 | \$ 11,983 | 0.00% |
| 2011 | 3 | 222,991 | \$ 19,204 | 0.00% |
| 2012 | 3 | 228,719 | \$ 22,391 | 0.00% |
| 2013 | 3 | 216,478 | \$ 36,561 | 0.00% |
| 2014 | 3 | 212,881 | \$ 19,519 | 0.00% |
| 2015 | 1 | 72,833 | \$ 47,408 | 0.00% |
| 2016 | 1 | 77,865 | \$ 29,203 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-23: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 6,213,655 | \$ 4,197,151 | 68% | \$ 2,016,504 |
| 2007 | 7,012,471 | 5,036,379 | 72% | 1,976,092 |
| 2008 | 7,722,879 | 4,916,106 | 64% | 2,806,773 |
| 2009 | 7,814,124 | 4,806,309 | 62% | 3,007,815 |
| 2010 | 7,823,108 | 4,753,523 | 61% | 3,069,585 |
| 2011 | 8,097,500 | 4,756,597 | 59% | 3,340,903 |
| 2012 | 8,231,285 | 4,703,619 | 57% | 3,527,666 |
| 2013 | 8,167,289 | 4,754,827 | 58% | 3,412,462 |
| 2014 | 8,428,134 | 8,683,821 | 103% | (255,687) |
| 2015 | 8,798,885 | 8,501,834 | 97% | 297,051 |
| 2016 | 9,055,614 | 8,322,609 | 92% | 733,005 |

Table 9-23: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 13 | \$ 656,257 | \$ 15,580 | 4.00% |
| 2007 | 12 | 693,801 | \$ 15,523 | 4.00% |
| 2008 | 6 | 338,658 | \$ 20,886 | 4.00% |
| 2009 | 6 | 337,939 | \$ 23,350 | 4.00% |
| 2010 | 5 | 284,169 | \$ 25,079 | 4.00% |
| 2011 | 5 | 306,129 | \$ 30,712 | 4.00% |
| 2012 | 4 | 237,691 | \$ 36,232 | 4.00% |
| 2013 | 3 | 177,391 | \$ 39,992 | 4.00% |
| 2014 | 3 | 209,708 | \$ 1,607 | 4.00% |
| 2015 | 3 | 184,022 | \$ 7,579 | 4.00% |
| 2016 | 3 | 226,794 | \$ 9,964 | 4.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-91: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 1,261,699 | \$ 836,077 | 66% | \$ 425,622 |
| 2007 | 1,315,958 | 973,577 | 74% | 342,381 |
| 2008 | 1,323,310 | 986,068 | 75% | 337,242 |
| 2009 | 1,327,127 | 941,592 | 71% | 385,535 |
| 2010 | 1,320,595 | 900,679 | 68% | 419,916 |
| 2011 | 1,310,998 | 865,255 | 66% | 445,743 |
| 2012 | 1,301,493 | 834,828 | 64% | 466,665 |
| 2013 | 1,355,111 | 803,258 | 59% | 551,853 |
| 2014 | 1,329,960 | 1,159,578 | 87% | 170,382 |
| 2015 | 1,370,230 | 1,063,688 | 78% | 306,542 |
| 2016 | 1,343,414 | 963,183 | 72% | 380,231 |

Table 9-91: Computed Employer Contributions - Comparative Schedule

| | Active Employees | | Computed | Employee |
|----------------|------------------|-----------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 2 | \$ 95,194 | \$ 3,019 | 3.45% |
| 2007 | 1 | 48,971 | \$ 2,198 | 3.45% |
| 2008 | 1 | 50,064 | \$ 2,533 | 3.45% |
| 2009 | 1 | 52,846 | \$ 3,226 | 3.45% |
| 2010 | 1 | 52,266 | \$ 3,837 | 3.45% |
| 2011 | 1 | 51,702 | \$ 4,573 | 3.45% |
| 2012 | 1 | 51,587 | \$ 5,584 | 3.45% |
| 2013 | 0 | 0 | \$ 8,077 | 0.00% |
| 2014 | 0 | 0 | \$ 708 | 0.00% |
| 2015 | 0 | 0 | \$ 7,789 | 3.45% |
| 2016 | 0 | 0 | \$ 4,43 3 | 3.45% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-92: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 1,021,853 | \$ 773,736 | 76% | \$ 248,117 |
| 2007 | 1,007,781 | 832,132 | 83% | 175,649 |
| 2008 | 1,057,842 | 839,559 | 79% | 218,283 |
| 2009 | 1,133,694 | 885,407 | 78% | 248,287 |
| 2010 | 1,225,491 | 934,868 | 76% | 290,623 |
| 2011 | 1,262,745 | 947,183 | 75% | 315,562 |
| 2012 | 1,282,916 | 960,227 | 75% | 322,689 |
| 2013 | 1,372,272 | 983,234 | 72% | 389,038 |
| 2014 | 1,383,026 | 1,249,209 | 90% | 133,817 |
| 2015 | 1,444,757 | 1,208,421 | 84% | 236,336 |
| 2016 | 1,455,753 | 1,164,642 | 80% | 291,111 |

Table 9-92: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 3 | \$ 155,943 | \$ 2,248 | 3.84% |
| 2007 | 3 | 143,756 | \$ 1,636 | 3.84% |
| 2008 | 3 | 151,163 | \$ 2,460 | 3.84% |
| 2009 | 3 | 160,314 | \$ 2,730 | 3.84% |
| 2010 | 2 | 104,454 | \$ 3,065 | 3.84% |
| 2011 | 2 | 105,580 | \$ 3,753 | 3.84% |
| 2012 | 2 | 105,362 | \$ 4,351 | 3.84% |
| 2013 | 1 | 51,382 | \$ 6,009 | 3.84% |
| 2014 | 1 | 51,225 | \$ 1,124 | 3.84% |
| 2015 | 0 | 0 | \$ 5,759 | 3.84% |
| 2016 | 0 | 0 | \$ 3,332 | 3.84% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Table 8-93: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 2,402,518 | \$ 1,695,880 | 71% | \$ 706,638 |
| 2007 | 2,584,877 | 2,003,804 | 78% | 581,073 |
| 2008 | 2,386,680 | 1,765,640 | 74% | 621,040 |
| 2009 | 2,500,001 | 1,932,219 | 77% | 567,782 |
| 2010 | 2,652,842 | 2,097,445 | 79% | 555,397 |
| 2011 | 2,720,200 | 2,235,267 | 82% | 484,933 |
| 2012 | 2,878,247 | 2,309,542 | 80% | 568,705 |
| 2013 | 2,927,625 | 2,350,397 | 80% | 577,228 |
| 2014 | 3,139,907 | 2,967,524 | 95% | 172,383 |
| 2015 | 3,255,535 | 2,837,782 | 87% | 417,753 |
| 2016 | 3,232,141 | 2,701,848 | 84% | 530,293 |

Table 9-93: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 7 | \$ 534,234 | \$ 8,550 | 0.00% |
| 2007 | 7 | 551,261 | \$ 7,159 | 0.00% |
| 2008 | 6 | 477,852 | \$ 7,647 | 0.00% |
| 2009 | 6 | 500,867 | \$ 7,327 | 0.00% |
| 2010 | 5 | 414,075 | \$ 6,855 | 0.00% |
| 2011 | 5 | 412,512 | \$ 6,823 | 0.00% |
| 2012 | 3 | 244,413 | \$ 7,809 | 0.00% |
| 2013 | 3 | 240,880 | \$ 9,648 | 0.00% |
| 2014 | 1 | 77,264 | \$ 635 | 0.00% |
| 2015 | 1 | 78,257 | \$ 11,135 | 0.00% |
| 2016 | 1 | 79,554 | \$ 6,707 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 94 - Upper Management

Table 8-94: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|-------------------------------|-----------------------------|------------------|----------------|--|
| 2006 | \$ 4,217,347 | \$ 5,134,184 | 122% | \$ (916,837) |
| 2007 | 4,519,896 | 3,617,934 | 80% | 901,962 |
| 2008 | 5,028,892 | 3,379,599 | 67% | 1,649,293 |
| 2009 | 5,179,666 | 3,516,958 | 68% | 1,662,708 |
| 2010 | 5,154,390 | 3,669,725 | 71% | 1,484,665 |
| 2011 | 6,173,163 | 4,072,092 | 66% | 2,101,071 |
| 2012 | 6,589,694 | 4,139,270 | 63% | 2,450,424 |
| 2013 | 7,316,333 | 3,999,761 | 55% | 3,316,572 |
| 2014 | 7,188,840 | 5,658,834 | 79% | 1,530,006 |
| 2015 | 7,504,816 | 5,403,779 | 72% | 2,101,037 |
| 2016 | 7,203,912 | 5,199,655 | 72% | 2,004,257 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-94: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 7 | \$ 719,880 | \$ 583 | 0.00% |
| 2007 | 7 | 785,865 | \$ 10,830 | 0.00% |
| 2008 | 5 | 560,090 | \$ 13,724 | 0.00% |
| 2009 | . 5 | 617,645 | \$ 13,939 | 0.00% |
| 2010 | 5 | 546,310 | \$ 12,434 | 0.00% |
| 2011 | 4 | 436,254 | \$ 18,185 | 0.00% |
| 2012 | 2 | 247,615 | \$ 19,828 | 0.00% |
| 2013 | 1 | 82,006 | \$ 27,409 | 0.00% |
| 2014 | 1 | 81,719 | \$ 11,256 | 0.00% |
| 2015 | 1 | 81,689 | \$ 25,177 | 0.00% |
| 2016 | 0_ | 0 | \$ 18,152 | 0.00% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 95 - NonUnion Mgmnt

Table 8-95: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Actuarial Accrued Liability | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|----------------------------|--------------------------------|------------------|----------------|--|
| 2006 | \$ 439,948 | \$ 294,920 | 67% | \$ 145,028 |
| 2007 | 448,612 | 374,535 | 83% | 74,077 |
| 2008 | 642,217 | 361,625 | 56% | 280,592 |
| 2009 | 645,988 | 336,850 | 52% | 309,138 |
| 2010 | 649,049 | 308,581 | 48% | 340,468 |
| 2011 | 653,894 | 289,480 | 44% | 364,414 |
| 2012 | 655,605 | 271,515 | 41% | 384,090 |
| 2013 | 653,599 | 259,933 | 40% | 393,666 |
| 2014 | 653,574 | 658,895 | 101% | (5,321) |
| 2015 | 591,916 | 633,482 | 107% | (41,566) |
| 2016 | 649,311 | 597,453 | 92% | 51,858 |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-95: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|-----------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 1 | \$ 60,395 | \$ 1,358 | 0.00% |
| 2007 | 1 | 62,066 | \$ 686 | 0.00% |
| 2008 | 0 | 0 | \$ 1,580 | 0.00% |
| 2009 | 0 | 0 | \$ 1,839 | 0.00% |
| 2010 | . 0 | 0 | \$ 2,117 | 0.00% |
| 2011 | 0 | 0 | \$ 2,436 | 0.00% |
| 2012 | 0 | 0 | \$ 2,793 | 0.00% |
| 2013 | 0 | 0 | \$ 3,153 | 0.00% |
| 2014 | 0 | 0 | \$0 | 0.00% |
| 2015 | 0 | 0 | \$ 0 | 0.00% |
| 2016 | 0 | 0 | \$ 603 | 0.00% |

For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 96 - UAW Para prof.

Table 8-96: Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date | Actuarial | | | Unfunded (Overfunded) Accrued |
|----------------|-------------------|------------------|----------------|-------------------------------------|
| December 31 | Accrued Liability | Valuation Assets | Percent Funded | Liabilities |
| 2006 | \$ 1,115,536 | \$ 755,097 | 68% | \$ 360,439 |
| 2007 | 1,253,744 | 920,196 | 73% | 333,548 |
| 2008 | 1,384,320 | 894,662 | 65% | 489,658 |
| 2009 | 1,421,665 | 884,139 | 62% | 537,526 |
| 2010 | 1,406,675 | 879,528 | 63% | 527,147 |
| 2011 | 1,163,858 | 911,555 | 78% | 252,303 |
| 2012 | 1,179,404 | 951,370 | 81% | 228,034 |
| 2013 | 1,208,005 | 983,468 | 81% | 224,537 |
| 2014 | 1,193,010 | 1,242,515 | 104% | (49,505) |
| 2015 | 1,225,283 | 1,235,768 | 101% | (10,485) |
| 2016 | 1,215,554 | 1,228,992 | 101% | (13,438) |

Notes: Actuarial assumptions were revised for the 2008, 2009, 2010, 2011, 2012 and 2015 actuarial valuations.

Table 9-96: Computed Employer Contributions - Comparative Schedule

| | Active I | Employees | Computed | Employee |
|----------------|----------|------------|---------------------------|-------------------|
| Valuation Date | | Annual | Employer | Contribution |
| December 31 | Number | Payroll | Contribution ¹ | Rate ² |
| 2006 | 6 | \$ 229,016 | \$ 3,152 | 4.34% |
| 2007 | 4 | 166,460 | . \$ 2,398 | 4.34% |
| 2008 | 2 | 91,310 | \$ 3,225 | 4.34% |
| 2009 | 2 | 96,885 | \$ 3,674 | 4.34% |
| 2010 | 2 | 94,620 | \$ 3,655 | 4.34% |
| 2011 | 2 | 102,928 | \$ 1,881 | 4.34% |
| 2012 | 2 | 100,721 | \$ 1,925 | 4.34% |
| 2013 | 1 | 59,758 | \$ 1,950 | 4.34% |
| 2014 | 1 | 59,728 | \$ 173 | 4.34% |
| 2015 | 1 | 60,310 | \$ 200 | 4.34% |
| 2016 | 1 | 61,040 | \$ 199 | 4.34% |

¹ For open divisions, a percent of pay contribution is shown. For closed divisions, a monthly dollar contribution is shown.

Note: The contributions shown in Table 9 for the 12/31/2015 through 12/31/2019 valuations do **not** reflect the phase-in of the increased contribution requirements associated with the new actuarial assumptions. The full contribution without phase-in is shown in Table 9 above. The contribution requirements including the 5-year phase-in are shown on page 7.

² For each valuation year, the computed employer contribution is based on the employee rate. If the employee rate changes during the applicable fiscal year, the computed employer contribution will be adjusted.

Division 01 - General

Table 10-01: Layered Amortization Schedule

| | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|---------------------|---|---|--------------------------|-------------------------------|----|------------------------|--|--|
| Type of UAL | Date Established | Original Balance | Original Amortiza- tion Period** | | utstanding L Balance* | Amortiza- tion Period** | An | nortization Payment | | |
| Initial | 12/31/2015 | \$ 915,377 | 4 | \$ | 836,670 | 8 | \$ | 123,432 | | |
| Gain/Loss | 12/31/2016 | 562,167 | 10 | | 640,613 | 10 | | 78,360 | | |
| Total | | | | \$ | 1,477,283 | | \$ | 201,792 | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 02 - Sheriff POAM

Table 10-02: Layered Amortization Schedule

| Type of UAL | | | | | Amounts for | Fiscal \ 10/1/201 | | Beginning |
|-------------|---------------------|---------------------|---|-----|--------------------------|---------------------------|----|-------------------------|
| | Date Established | Original Balance | Original Amortiza- tion Period** | 100 | ıtstanding L Balance* | Amortiz tion Period | ľ | Amortization Payment |
| Initial | 12/31/2015 | \$ 1,852,647 | 4 | \$ | 1,678,010 | 8 | \$ | 247,560 |
| Gain/Loss | 12/31/2016 | 544,142 | 10 | | 620,072 | 10 | | 75,840 |
| Total | | | | \$ | 2,298,082 | | \$ | 323,400 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 09 - UAW Managers

Table 10-09: Layered Amortization Schedule

| | | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|----|---------------------|---|---|---------------------------|-------------------------------|----|------------------------|--|--|
| Type of UAL | Date Established | | Original Balance | Original Amortiza- tion Period** | 1000 | utstanding \L Balance* | Amortiza- tion Period** | Α | mortization Payment | | |
| Initial | 12/31/2015 | \$ | 3,972,007 | 4 | \$ | 3,579,577 | 8 | \$ | 528,108 | | |
| Gain/Loss | 12/31/2016 | | 2,271,173 | 10 | | 2,588,096 | 10 | | 316,560 | | |
| Total | | | | | \$ | 6,167,673 | | \$ | 844,668 | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 10 - UAWProfessional

Table 10-10: Layered Amortization Schedule

| | | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | |
|-------------|---------------------|----|---------------------|---|--|--------------------------|-------------------------------|-------------------------|--|--|
| Type of UAL | Date Established | | Original Balance | Original Amortiza- tion Period** | 200 | utstanding L Balance* | Amortiza- tion Period** | Amortization Payment | | |
| Initial | 12/31/2015 | \$ | 203,614 | 4 | \$ | 193,564 | 8 | \$ 28,560 | | |
| Gain/Loss | 12/31/2016 | | 219,419 | 10 | | 250,037 | 10 | 30,588 | | |
| Total | | | | | \$ | 443,601 | | \$ 59,148 | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 11 - Gnrl Local486

Table 10-11: Layered Amortization Schedule

| | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|---------------------|---|--|--------------------------|-------------------------------|------|------------------------|--|--|
| Type of UAL | Date Established | Original Balance | Original Amortiza- tion Period** | Oı | utstanding L Balance* | Amortiza- tion Period** | 7.77 | nortization Payment | | |
| Initial | 12/31/2015 | \$ 608,249 | 5 | \$ | 576,063 | 9 | \$ | 76,908 | | |
| Gain/Loss | 12/31/2016 | 1,439 | 10 | | 1,640 | 10 | | 204 | | |
| Total | | | | \$ | 577,703 | | \$ | 77,112 | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 13 - Sheriff/Cooks

Table 10-13: Layered Amortization Schedule

| | | | | | Amounts for | Fiscal Yea 10/1/2018 | r Begi | nning |
|-------------|----------------------------|---|----|--------------------------|-------------------------------|-------------------------|--------------------|--------|
| Type of UAL | Amort Date Original tio | Original Amortiza- tion Period** | Οι | ıtstanding L Balance* | Amortiza- tion Period** | 477737 | rtization yment | |
| Initial | 12/31/2015 | \$ 89,103 | 5 | \$ | 84,375 | 9 | \$ | 11,268 |
| Gain/Loss | 12/31/2016 | 36,326 | 10 | | 41,395 | 10 | | 5,064 |
| Total | | | | \$ | 125,770 | | \$ | 16,332 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 14 - Nurses

Table 10-14: Layered Amortization Schedule

| | | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|----|---------------------|---|--|---------------------------|-------------------------------|----|------------------------|--|--|
| Type of UAL | Date Established | | Original Balance | Original Amortiza- tion Period** | | utstanding \L Balance* | Amortiza- tion Period** | Α | mortization Payment | | |
| Initial | 12/31/2015 | \$ | 565,231 | 4 | \$ | 512,593 | 8 | \$ | 75,624 | | |
| Gain/Loss | 12/31/2016 | | 209,518 | 10 | | 238,754 | 10 | | 29,208 | | |
| Total | | | · | | \$ | 751,347 | | \$ | 104,832 | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 15 - HIth Dept

Table 10-15: Layered Amortization Schedule

| Type of UAL | | | | | Amounts for | Fiscal Yea 10/1/2018 | r B | eginning |
|-------------|---------------------|---------------------|---|-----|--------------------------|-------------------------------|-----|------------------------|
| | Date Established | Original Balance | Original Amortiza- tion Period** | 1.0 | utstanding L Balance* | Amortiza- tion Period** | Α | mortization Payment |
| Initial | 12/31/2015 | \$ 1,301,021 | 4 | \$ | 1,179,679 | 8 | \$ | 174,048 |
| Gain/Loss | 12/31/2016 | 589,825 | 10 | | 672,130 | 10 | | 82,212 |
| Total | | | | \$ | 1,851,809 | | \$ | 256,260 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 16 - Elctd Commsnrs

Table 10-16: Layered Amortization Schedule

| | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|----|---------------------|---|----|--------------------------|------------------------------|----|------------------------|--|
| Type of UAL | Date Established | | Original Balance | Original Amortiza- tion Period** | | ıtstanding L Balance* | Amortiza tion Period** | Α | mortization Payment | |
| Initial | 12/31/2015 | \$ | 175,482 | 4 | \$ | 158,589 | 8 | \$ | 23,400 | |
| Gain/Loss | 12/31/2016 | | 74,461 | 10 | | 84,851 | 10 | | 10,380 | |
| Total | | | | | \$ | 243,440 | | \$ | 33,780 | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 17 - Animal Control

Table 10-17: Layered Amortization Schedule

| | | | | Amounts for | r Fiscal Yea 10/1/2018 | ır B | eginning |
|-------------|---------------------|---------------------|---|------------------------------|-------------------------------|------|------------------------|
| Type of UAL | Date Established | Original Balance | Original Amortiza- tion Period** | itstanding L Balance* | Amortiza- tion Period** | | mortization Payment |
| Initial | 12/31/2015 | \$ 151,299 | 4 | \$ 126,704 | 8 | \$ | 18,696 |
| Gain/Loss | 12/31/2016 | 59,574 | 10 | 67,887 | 10 | | 8,304 |
| Total | | | | \$ 194,591 | | \$ | 27,000 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 18 - Judges

Table 10-18: Layered Amortization Schedule

| Type of UAL | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | | |
|-------------|---------------------|---------------------|---|--|---------------------------|-------------------------------|------|------------------------|--|--|--|
| | Date Established | Original Balance | Original Amortiza- tion Period** | 0 | utstanding \L Balance* | Amortiza- tion Period** | ,=,= | nortization Payment | | | |
| Initial | 12/31/2015 | \$ (74,865) | 10 | \$ | (89,385) | 10 | \$ | (10,932) | | | |
| Gain/Loss | 12/31/2016 | (3,474) | 10 | | (3,959) | 10 | | (480) | | | |
| Total | | | | \$ | (93,344) | | \$ | (11,412) | | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 19 - Dist Judges

Table 10-19: Layered Amortization Schedule

| Type of UAL | | | | Amounts fo | r Fiscal Yea 10/1/2018 | eginning | |
|-------------|---------------------|---------------------|---|------------------------------|-------------------------------|----------|------------------------|
| | Date Established | Original Balance | Original Amortiza- tion Period** | utstanding L Balance* | Amortiza- tion Period** | Α | mortization Payment |
| Initial | 12/31/2015 | \$ 326,078 | 5 | \$ 271,847 | 9 | \$ | 36,300 |
| Gain/Loss | 12/31/2016 | 70,576 | 10 | 80,424 | 10 | | 9,840 |
| Total | | | | \$ 352,271 | | \$ | 46,140 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 20 - Sheriff FOP

Table 10-20: Layered Amortization Schedule

| Type of UAL | | | Original Amortiza- tion Period** | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|---------------------|---|--|--------------------------|-------------------------------|-----|------------------------|--|--|
| | Date Established | Original Balance | | 0 | utstanding L Balance* | Amortiza- tion Period** | · . | mortization Payment | | |
| Initial | 12/31/2015 | \$ (567,914) | 10 | \$ | (703,374) | 10 | \$ | (86,028) | | |
| Gain/Loss | 12/31/2016 | 162,145 | 10 | | 184,771 | 10 | | 22,596 | | |
| Total | | | | \$ | (518,603) | | \$ | (63,432) | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 21 - Shrff/Lts/Capts

Table 10-21: Layered Amortization Schedule

| Type of UAL | | | | | Amounts for | Fiscal Yea 10/1/2018 | ginning | | |
|-------------|---------------------|----|---------------------|---|-------------|---------------------------|-------------------------------|----|------------------------|
| | Date Established | | Original Balance | Original Amortiza- tion Period** | . / | utstanding AL Balance* | Amortiza- tion Period** | | nortization Payment |
| Initial | 12/31/2015 | \$ | 2,402,131 | 5 | \$ | 2,111,639 | 9 | \$ | 281,928 |
| Gain/Loss | 12/31/2016 | | 429,068 | 10 | | 488,941 | 10 | | 59,808 |
| Total | | | | | \$ | 2,600,580 | | \$ | 341,736 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 23 - P.O.A.M. Non 312

Table 10-23: Layered Amortization Schedule

| Type of UAL | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|---------------------|---|---|--------------------------|-------------------------------|----|------------------------|--|--|
| | Date Established | Original Balance | Original Amortiza- tion Period** | | ıtstanding L Balance* | Amortiza- tion Period** | | mortization Payment | | |
| Initial | 12/31/2015 | \$ 297,051 | 5 | \$ | 285,993 | 9 | \$ | 38,184 | | |
| Gain/Loss | 12/31/2016 | 448,278 | 10 | | 510,832 | 10 | | 62,484 | | |
| Total | | | | \$ | 796,825 | | \$ | 100,668 | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 91 - Juvenile Probtn

Table 10-91: Layered Amortization Schedule

| Type of UAL | | | | | Amounts for | Fiscal Yea 10/1/2018 | ginning | |
|-------------|---------------------|---------------------|---|----|--------------------------|-------------------------------|---------|-----------------------|
| | Date Established | Original Balance | Original Amortiza- tion Period** | Οι | ıtstanding L Balance* | Amortiza- tion Period** | An | ortization Payment |
| Initial | 12/31/2015 | \$ 306,542 | 4 | \$ | 270,030 | 8 | \$ | 39,840 |
| Gain/Loss | 12/31/2016 | 95,806 | 10 | | 109,175 | 10 | | 13,356 |
| Total | | | | \$ | 379,205 | | \$ | 53,196 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 92 - Dist Court Prob

Table 10-92: Layered Amortization Schedule

| | | | | | Amounts for Fiscal Year Beginning 10/1/2018 | | | | | | |
|-------------|---------------------|---------------------|---|----|--|-------------------------------|----|------------------------|--|--|--|
| Type of UAL | Date Established | Original Balance | Original Amortiza- tion Period** | • | utstanding L Balance* | Amortiza- tion Period** | | nortization Payment | | | |
| Initial | 12/31/2015 | \$ 236,336 | 4 | \$ | 199,680 | 8 | \$ | 29,460 | | | |
| Gain/Loss | 12/31/2016 | 75,529 | 10 | | 86,068 | 10 | | 10,524 | | | |
| Total | - | | | \$ | 285,748 | | \$ | 39,984 | | | |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 93 - Pros Attys Union

Table 10-93: Layered Amortization Schedule

| | | | | | Amounts for | r Fiscal Yea 10/1/2018 | r B | eginning |
|-------------|---------------------|---------------------|---|-----|---------------------------|-------------------------------|-----|------------------------|
| Type of UAL | Date Established | Original Balance | Original Amortiza- tion Period** | VE. | utstanding LL Balance* | Amortiza- tion Period** | Α | mortization Payment |
| Initial | 12/31/2015 | \$ 417,753 | 4 | \$ | 371,582 | - 8 | \$ | 54,816 |
| Gain/Loss | 12/31/2016 | 147,625 | - 10 | | 168,225 | 10 | | 20,580 |
| Total | | | | \$ | 539,807 | | \$ | 75,396 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 94 - Upper Management

Table 10-94: Layered Amortization Schedule

| | | | | | Amounts for | r Fiscal Yea 10/1/2018 | r B | eginning |
|-------------|---------------------|----|---------------------|---|--------------------------------|-------------------------------|-----|------------------------|
| Type of UAL | Date Established | | Original Balance | Original Amortiza- tion Period** | outstanding AL Balance* | Amortiza- tion Period** | Α | mortization Payment |
| Initial | 12/31/2015 | \$ | 2,101,037 | 9 | \$ 2,124,653 | 11 | \$ | 240,468 |
| Gain/Loss | 12/31/2016 | | (175,560) | 11 | (200,058) | .11 | | (22,644) |
| Total | | | • . | | \$ 1,924,595 | | \$ | 217,824 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 95 - NonUnion Mgmnt

Table 10-95: Layered Amortization Schedule

| | | | | An | nounts fo | Fiscal Yea 10/1/2018 | r Be | ginning |
|-------------|---------------------|---------------------|---|------|---------------------|-------------------------------|--------|------------------------|
| Type of UAL | Date Established | Original Balance | Original Amortiza- tion Period** | Outs | tanding Balance* | Amortiza- tion Period** | - 45 A | nortization Payment |
| Gain/Loss | 12/31/2016 | 51,885 | 10 | | 59,125 | 10 | | 7,236 |
| Total | | | | \$ | 59,125 | | \$ | 7,236 |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

Division 96 - UAW Para prof.

Table 10-96: Layered Amortization Schedule

| | | | | Amounts for | Fiscal Yea 10/1/2018 | ar Be | eginning |
|-------------|---------------------|---------------------|---|--------------------------|-------------------------------|-------|------------------------|
| Type of UAL | Date Established | Original Balance | Original Amortiza- tion Period** | itstanding L Balance* | Amortiza- tion Period** | | mortization Payment |
| Initial | 12/31/2015 | \$ (10,485) | 10 | \$ (8,829) | 10 | \$ | (1,080) |
| Gain/Loss | 12/31/2016 | (3,726) | 10 | (4,246) | 10 | | (516) |
| Total | | | | \$ (13,075) | | \$ | (1,596) |

^{*} This is the remaining balance as of the valuation date, projected to the beginning of the fiscal year shown above.

^{**} Please see the Appendix on the MERS website for a description of the amortization policy.

40/04/0040

GASB 68 Information

The following information has been prepared to provide some of the information necessary to complete GASB Statement No. 68 disclosures. Statement 68 is effective for fiscal years beginning after June 15, 2014. Additional resources, including an Implementation Guide, are available at www.mersofmich.com.

| Actuarial Valuation Date: | | 12/31/2016 |
|---|----------------|-------------------------------|
| Measurement Date of Total Pension Liability (TPL): | | 12/31/2016 |
| At 12/31/2016, the following employees were covered by the benefit terms: Inactive employees or beneficiaries currently receiving benefits: Inactive employees entitled to but not yet receiving benefits: Active employees: | | 569 49 <u>47</u> 665 |
| Total Pension Liability as of 12/31/2015 measurement date: | \$ | 145,954,971 |
| Total Pension Liability as of 12/31/2016 measurement date: | \$ | 145,505,305 |
| Service Cost for the year ending on the 12/31/2016 measurement date: | \$ | 343,667 |
| Change in the Total Pension Liability due to. - Benefit changes ¹ : - Differences between expected and actual experience ² : - Changes in assumptions ² : | \$ \$ \$ | 0 (125,333) 0 |

¹ A change in liability due to benefit changes is immediately recognized when calculating pension expense for the year.

Average expected remaining service lives of all employees (active and inactive):

Covered employee payroll: (Needed for Required Supplementary Information)

Sensitivity of the Net Pension Liability to changes in the discount rate:

1% Decrease Current Discount
(7.00%)

Rate (8.00%)

(9.00%)

Change in Net Pension Liability as of 12/31/2016: \$13,464,546

- \$(11,552,385)

Note: The current discount rate shown for GASB 68 purposes is higher than the MERS assumed rate of return. This is because for GASB 68 purposes, the discount rate must be gross of administrative expenses, whereas for funding purposes it is net of administrative expenses.

² Changes in liability due to differences between actual and expected experience, and changes in assumptions, are recognized in pension expense over the average remaining service lives of all employees.

Benefit Provision History

The following benefit provision history is provided by MERS. Any corrections to this history or discrepancies between this information and information displayed elsewhere in the valuation report should be reported to MERS. All provisions are listed by date of adoption.

01 - General

| graduation for the Art 14 | 我们就是一个大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大 |
|---------------------------|--|
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 5/1/2006 | Member Contribution Rate 3.88% |
| 5/1/2006 | Benefit B-4 (80% max) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 1/1/2000 | DC Adoption Date 01-01-2000 |
| 5/1/1996 | Benefit F50 (With 25 Years of Service) |
| 5/1/1996 | Benefit F55 (With 20 Years of Service) |
| 1/1/1995 | Benefit F55 (With 25 Years of Service) |
| 1/1/1993 | 6 Year Vesting |
| 1/1/1993 | Benefit B-3 (80% max) |
| 9/1/1990 | Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/03/1991) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1988 | Benefit C-2/Base B-1 |
| 1/1/1988 | Member Contribution Rate 0.00% |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 4/1/1982 | Member Contribution Rate 4.00% |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 1/1/1967 | Benefit C-1 (Old) |
| 10/19/1965 | Covered by Act 88 |
| 1/1/1959 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1959 | 10 Year Vesting |
| 1/1/1959 | Benefit C (Old) |
| 1/1/1959 | Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00% |
| | Fiscal Month - October |

02 - Sheriff POAM

| 요 그 시간이 하십시 아름은 사람이 나를 하다. | 그 하는 사람들에 하나와 하지 않는데 하는데 하는데 가는 하는데 한 것 같습니다. |
|----------------------------|--|
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 1/1/2001 | E2 2.5% COLA for future retirees (01/01/1995) |
| 9/30/2000 | DC Adoption Date 09-30-2000 |
| 4/1/2000 | Member Contribution Rate 4.00% |
| 1/1/2000 | E2 2.4% COLA for future retirees (01/01/1995) |
| 4/1/1995 | Benefit B-4 (80% max) |
| 4/1/1005 | Member Contribution Rate 7 09% |

02 - Sheriff POAM

| 1/1/1995 | 25 Years & Out |
|------------|--|
| 1/1/1995 | E2 2.5% COLA for future retirees (01/01/1995) |
| 1/1/1992 | 6 Year Vesting |
| 1/1/1992 | Benefit B-3 (80% max) |
| 1/1/1992 | Benefit F50 (With 25 Years of Service) |
| 9/1/1990 | Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/03/1991) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1989 | Benefit B-2 |
| 1/1/1989 | Member Contribution Rate 0.00% |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1983 | Member Contribution Rate 4.00% |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 1/1/1967 | Benefit C-1 (Old) |
| 10/19/1965 | Covered by Act 88 |
| 1/1/1959 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1959 | 10 Year Vesting |
| 1/1/1959 | Benefit C (Old) |
| 1/1/1959 | Member Contribution Rate 3.00% Under \$4,200.00 - Then 5.00% |
| | Fiscal Month - October |
| | |

09 - UAW Managers

| | 執際 내가 한다는 사람들이 되었다. 그 나는 사람들은 사람들은 사람들은 사람들이 되었다. |
|-----------|--|
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 1/1/2006 | E2 2.5% COLA for future retirees (06/01/2005) |
| 12/1/2005 | Member Contribution Rate 3.20% |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 3/1/1998 | DC Adoption Date 03-01-1998 |
| 1/1/1998 | 25 Years & Out |
| 1/1/1998 | Benefit F55 (With 15 Years of Service) |
| 1/1/1994 | Benefit F55 (With 20 Years of Service) |
| 1/1/1993 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1993 | 6 Year Vesting |
| 1/1/1993 | Benefit B-4 (80% max) |
| 1/1/1993 | Benefit F50 (With 25 Years of Service) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1983 | Member Contribution Rate 0.00% |
| 4/1/1982 | Member Contribution Rate 4.00% |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |

09 - UAW Managers

12/8/1972

Blanket Resolution (All Service)

10/19/1965

Covered by Act 88

Fiscal Month - October

10 - UAWProfessional

| Service Credit Purchase Estimates - Yes |
|--|
| Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| Temporary 20 Years & Out (10/01/2002 - 12/05/2002) |
| DC Adoption Date 03-01-1998 |
| Benefit F55 (With 15 Years of Service) |
| Benefit F50 (With 25 Years of Service) |
| Benefit B-3 (80% max) |
| Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/03/1991) |
| Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 6 Year Vesting |
| Benefit B-2 |
| Benefit F55 (With 20 Years of Service) |
| Flexible E 2% COLA Adopted (01/01/1989) |
| Flexible E 2% COLA Adopted (01/01/1988) |
| Benefit FAC-5 (5 Year Final Average Compensation) |
| 10 Year Vesting |
| Benefit C-2/Base B-1 |
| Benefit F55 (With 25 Years of Service) |
| Member Contribution Rate 0.00% |
| Flexible E 2% COLA Adopted (01/01/1987) |
| Member Contribution Rate 4.00% |
| Blanket Resolution (All Service) |
| Covered by Act 88 |
| Fiscal Month - October |
| |

11 - Gnrl Local486

| ed a familiar and familiar filler and | |
|---------------------------------------|--|
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 9/30/2000 | DC Adoption Date 09-30-2000 |
| 4/1/1996 | Benefit B-3 (80% max) |
| 4/1/1996 | Benefit F55 (With 20 Years of Service) |
| 4/1/1996 | 6 Year Vesting |
| 1/1/1994 | Benefit C-2/Base B-1 |
| 1/1/1994 | Benefit F55 (With 25 Years of Service) |
| 9/1/1990 | Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/03/1991) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 0/1/1087 | Member Contribution Rate 0.00% |

11 - Gnrl Local486

Flexible E 2% COLA Adopted (01/01/1987) 1/1/1987 1/1/1985 10 Year Vesting 1/1/1985 Benefit C-1 (Old) Flexible E 2% COLA Adopted (01/01/1985) 1/1/1985 Benefit FAC-5 (5 Year Final Average Compensation) 1/1/1985 Member Contribution Rate 4.00% 1/1/1982 Flexible E 2% COLA Adopted (01/01/1980) 1/1/1980 12/8/1972 Blanket Resolution (All Service) 10/19/1965 Covered by Act 88 Fiscal Month - October

13 - Sheriff/Cooks

12/1/2016 Service Credit Purchase Estimates - Yes Temporary 20 Years & Out (04/01/2008 - 10/01/2008) 4/1/2008 Temporary 20 Years & Out (10/01/2002 - 12/03/2002) 10/1/2002 Benefit B-4 (80% max) 10/1/2001 Member Contribution Rate 1.00% 10/1/2001 9/30/2000 DC Adoption Date 09-30-2000 Benefit F50 (With 25 Years of Service) 3/1/2000 1/1/1994 6 Year Vesting Benefit B-3 (80% max) 1/1/1994 Benefit F55 (With 20 Years of Service) 1/1/1994 Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) 9/1/1990 Flexible E 2% COLA Adopted (01/01/1989) 1/1/1989 Flexible E 2% COLA Adopted (01/01/1988) 1/1/1988 Benefit FAC-5 (5 Year Final Average Compensation) 9/1/1987 9/1/1987 10 Year Vesting Benefit C-2/Base B-1 9/1/1987 Benefit F55 (With 25 Years of Service) 9/1/1987 Member Contribution Rate 0.00% 9/1/1987 Flexible E 2% COLA Adopted (01/01/1987) 1/1/1987 Flexible E 2% COLA Adopted (01/01/1985) 1/1/1985 Flexible E 2% COLA Adopted (01/01/1980) 1/1/1980 Blanket Resolution (All Service) 12/8/1972 Covered by Act 88 10/19/1965 Fiscal Month - October

14 - Nurses

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|-----------|--|
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 1/1/1999 | DC Adoption Date 01-01-1999 |
| 4/1/1996 | Benefit F50 (With 25 Years of Service) |
| 1/1/1993 | Benefit B-3 (80% max) |
| 1/1/1991 | 6 Year Vesting |
| 1/1/1001 | Benefit B-2 |

| 14 - Nurses | 통료병원 교회 실조를 반복하는 사이에 가장 하는 것 같아. |
|------------------|--|
| 1/1/1991 | Benefit F55 (With 20 Years of Service) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1989 | Benefit C-2/Base B-1 |
| 1/1/1989 | Benefit F55 (With 25 Years of Service) |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1988 | 10 Year Vesting |
| 1/1/1988 | Member Contribution Rate 0.00% |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1982 | Member Contribution Rate 4.00% |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |
| | |
| 15 - Hith Dept | 선생님들은 내용하를 대한 경기에 가장 하는 것이 되었다. |
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 1/1/1999 | DC Adoption Date 01-01-1999 |
| 12/1/1996 | Benefit F50 (With 25 Years of Service) |
| 1/1/1993 | Benefit B-3 (80% max) |
| 9/1/1990 | Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/03/1991) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1990 | 6 Year Vesting |
| 1/1/1990 | Benefit B-2 |
| 1/1/1990 | Benefit F55 (With 20 Years of Service) |
| 1/1/1990 | Member Contribution Rate 0.00% |
| 1/1/1988 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1988 | 10 Year Vesting |
| 1/1/1988 | Benefit C-2/Base B-1 |
| 1/1/1988 | Benefit F55 (With 25 Years of Service) |
| 4/1/1982 | Member Contribution Rate 4.00% |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |
| | |
| 16 - Elctd Comms | |

Service Credit Purchase Estimates - Yes

Benefit F55 (With 15 Years of Service)

Benefit FAC-3 (3 Year Final Average Compensation)

DC Adoption Date 03-01-1998

25 Years & Out

12/1/2016

3/1/1998

1/1/1998

1/1/1998

1/1/1995

16 - Elctd Commsnrs

| 1/1/1995 | E2 2.5% COLA for future retirees (01/01/1995) |
|------------|--|
| 1/1/1993 | Benefit B-4 (80% max) |
| 1/1/1993 | Benefit F50 (With 25 Years of Service) |
| 1/1/1993 | Benefit F55 (With 20 Years of Service) |
| 1/1/1991 | Member Contribution Rate 0.00% |
| 9/1/1990 | Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/03/1991) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1990 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1990 | 6 Year Vesting |
| 1/1/1990 | Benefit B-2 |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Member Contribution Rate 4.00% |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |
| | |

17 - Animal Control

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|------------|--|
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 1/1/2001 | Benefit F50 (With 25 Years of Service) |
| 1/1/2000 | DC Adoption Date 01-01-2000 |
| 1/1/1994 | 6 Year Vesting |
| 1/1/1994 | Benefit B-3 (80% max) |
| 1/1/1994 | Benefit F55 (With 20 Years of Service) |
| 1/1/1992 | 10 Year Vesting |
| 1/1/1992 | Benefit C-2/Base B-1 |
| 1/1/1992 | Benefit F55 (With 25 Years of Service) |
| 1/1/1992 | Member Contribution Rate 0.00% |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1989 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1984 | Member Contribution Rate 4.00% |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |

| 3 - Judges | 황류물로 인생하는데 그런 양물을 하는 그 나는데 그는 사람들이 가지 않는데 다 |
|------------|--|
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 4/1/2001 | E2 2.5% COLA for future retirees (04/01/2001) |
| 1/1/1999 | DC Adoption Date 01-01-1999 |
| 1/1/1998 | 25 Years & Out |
| 1/1/1998 | Benefit F55 (With 15 Years of Service) |
| 1/1/1994 | Benefit B-4 (80% max) |
| 1/1/1994 | Benefit F50 (With 25 Years of Service) |
| 9/1/1990 | Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/03/1991) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/03/1991) |
| 1/1/1990 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1990 | 6 Year Vesting |
| 1/1/1990 | Benefit B-2 |
| 1/1/1990 | Benefit F55 (With 20 Years of Service) |
| 1/1/1990 | Member Contribution Rate 0.00% |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Member Contribution Rate 4.00% |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |
| | |

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|-----------|--|
| 4/1/2001 | E2 2.5% COLA for future retirees (04/01/2001) |
| 1/1/1999 | DC Adoption Date 01-01-1999 |
| 1/1/1998 | 25 Years & Out |
| 1/1/1998 | Benefit F55 (With 15 Years of Service) |
| 1/1/1994 | Benefit B-4 (80% max) |
| 1/1/1994 | Benefit F50 (With 25 Years of Service) |
| 9/1/1990 | Temporary 2.25% Multiplier (no max) (09/01/1990 - 01/01/1991) |
| 9/1/1990 | Temporary Benefit F55 (With 20 Years of Service) (09/01/1990 - 01/01/1991) |
| 1/1/1990 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1990 | 6 Year Vesting |
| 1/1/1990 | Benefit B-2 |
| 1/1/1990 | Benefit F55 (With 20 Years of Service) |
| 1/1/1990 | Member Contribution Rate 0.00% |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Member Contribution Rate 4.00% |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |

19 - Dist Judges

10/19/1965 Covered by Act 88

Fiscal Month - October

20 - Sheriff FOP

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|------------|--|
| 2/15/2011 | Non-Standard Transfer Rules |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 1/1/2000 | 25 Years & Out |
| 1/1/2000 | Benefit F55 (With 15 Years of Service) |
| 1/1/2000 | DC Adoption Date 01-01-2000 |
| 1/1/1994 | Benefit B-4 (80% max) |
| 5/1/1992 | 6 Year Vesting |
| 5/1/1992 | Benefit B-3 (80% max) |
| 5/1/1992 | Benefit F50 (With 25 Years of Service) |
| 1/1/1991 | Benefit B-2 |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1986 | Member Contribution Rate 0.00% |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1983 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1983 | 10 Year Vesting |
| 1/1/1983 | Benefit C-2/Base B-1 |
| 1/1/1983 | Benefit F55 (With 25 Years of Service) |
| 1/1/1983 | Member Contribution Rate 4.00% |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |

21 - Shrff/Lts/Capts

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|-----------|--|
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 1/1/2001 | 25 Years & Out |
| 1/1/2001 | Benefit F55 (With 15 Years of Service) |
| 1/1/2001 | E2 2.5% COLA for future retirees (01/01/2001) |
| 1/1/1999 | DC Adoption Date 01-01-1999 |
| 1/1/1994 | Benefit B-4 (80% max) |
| 5/1/1992 | 6 Year Vesting |
| 5/1/1992 | Benefit B-3 (80% max) |
| 5/1/1992 | Benefit F50 (With 25 Years of Service) |
| 5/1/1992 | Member Contribution Rate 0.00% |
| 1/1/1991 | Benefit FAC-5 (5 Year Final Average Compensation) |

21 - Shrff/Lts/Capts

| 1/1/1991 | 10 Year Vesting |
|------------|---|
| 1/1/1991 | Benefit B-2 |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 1/1/1980 | Flexible E 2% COLA Adopted (01/01/1980) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |

23 - P.O.A.M. Non 312

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|------------|--|
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 9/30/2000 | DC Adoption Date 09-30-2000 |
| 12/1/1999 | 25 Years & Out |
| 12/1/1999 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 12/1/1999 | 6 Year Vesting |
| 12/1/1999 | Benefit B-4 (80% max) |
| 12/1/1999 | Member Contribution Rate 4.00% |
| 12/1/1999 | E2 2.5% COLA for future retirees (12/01/1999) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |

91 - Juvenile Probtn

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|-----------|--|
| | |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 6/1/2005 | Benefit B-4 (80% max) |
| 6/1/2005 | Member Contribution Rate 3.45% |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 10/1/2001 | 25 Years & Out |
| 9/30/2000 | DC Adoption Date 09-30-2000 |
| 1/1/1994 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1994 | 6 Year Vesting |
| 1/1/1994 | Benefit B-3 (80% max) |
| 1/1/1994 | Benefit F50 (With 25 Years of Service) |
| 1/1/1994 | Benefit F55 (With 20 Years of Service) |
| 1/1/1994 | Member Contribution Rate 0.00% |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 12/8/1972 | Blanket Resolution (All Service) |
| | |

91 - Juvenile Probtn

10/19/1965

Covered by Act 88

Fiscal Month - October

92 - Dist Court Prob

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|------------|---|
| 12/1/2016 | Service Credit Purchase Estimates - Yes |
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) |
| 3/1/2006 | Benefit B-4 (80% max) |
| 3/1/2006 | Member Contribution Rate 3.84% |
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 10/1/2001 | 25 Years & Out |
| 1/1/2000 | DC Adoption Date 01-01-2000 |
| 12/1/1996 | Benefit F50 (With 25 Years of Service) |
| 12/1/1996 | Benefit F55 (With 20 Years of Service) |
| 1/1/1994 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 1/1/1994 | 6 Year Vesting |
| 1/1/1994 | Benefit B-3 (80% max) |
| 1/1/1994 | Benefit F55 (With 25 Years of Service) |
| 1/1/1994 | Member Contribution Rate 0.00% |
| 1/1/1989 | Flexible E 2% COLA Adopted (01/01/1989) |
| 1/1/1988 | Flexible E 2% COLA Adopted (01/01/1988) |
| 1/1/1987 | Flexible E 2% COLA Adopted (01/01/1987) |
| 1/1/1985 | Flexible E 2% COLA Adopted (01/01/1985) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |

93 - Pros Attys Union

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|------------|--|
| 10/1/2002 | Temporary 20 Years & Out (10/01/2002 - 12/03/2002) |
| 1/1/1999 | DC Adoption Date 01-01-1999 |
| 11/1/1995 | 6 Year Vesting |
| 10/1/1995 | Benefit FAC-5 (5 Year Final Average Compensation) |
| 10/1/1995 | 10 Year Vesting |
| 10/1/1995 | Benefit B-3 (80% max) |
| 10/1/1995 | Benefit F50 (With 25 Years of Service) |
| 10/1/1995 | Benefit F55 (With 20 Years of Service) |
| 10/1/1995 | Member Contribution Rate 0.00% |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |

94 - Upper Management

| 12/1/2016 | Service Credit Purchase Estimates - Yes |
|-----------|---|
| 6/20/2006 | DC Adoption Date 06-20-2006 |

1/1/2000 E2 2.5% COLA for future retirees (02/01/1999)

94 - Upper Management

| 2/1/1999 | Member Contribution Rate 0.00% |
|------------|---|
| 2/1/1999 | Benefit F55 (With 15 Years of Service) |
| 2/1/1999 | 25 Years & Out |
| 2/1/1999 | Benefit FAC-3 (3 Year Final Average Compensation) |
| 2/1/1999 | Benefit RS 50 (50% Post-Ret. Spouse Benefits) |
| 2/1/1999 | 6 Year Vesting |
| 2/1/1999 | Benefit B-4 (80% max) |
| 12/8/1972 | Blanket Resolution (All Service) |
| 10/19/1965 | Covered by Act 88 |
| | Fiscal Month - October |

95 - NonUnion Mgmnt

| 12/1/2016 | Service Credit Purchase Estimates - Yes | |
|-----------|---|--|
| 6/20/2006 | DC Adoption Date 06-20-2006 | |
| 1/1/2006 | E2 2.5% COLA for future retirees (10/01/2005) | |
| 10/1/2005 | Benefit F55 (With 15 Years of Service) | |
| 10/1/2005 | Member Contribution Rate 0.00% | |
| 10/1/2005 | Blanket Resolution (All Service) | |
| 10/1/2005 | Covered by Act 88 | |
| 10/1/2005 | 25 Years & Out | |
| 10/1/2005 | Benefit FAC-5 (5 Year Final Average Compensation) | |
| 10/1/2005 | 6 Year Vesting | |
| 10/1/2005 | Benefit B-4 (80% max) | |
| | Fiscal Month - October | |

96 - UAW Para prof.

| 12/1/2016 | Service Credit Purchase Estimates - Yes | |
|------------|--|--|
| 4/1/2008 | Temporary 20 Years & Out (04/01/2008 - 10/01/2008) | |
| 6/20/2006 | DC Adoption Date 06-20-2006 | |
| 4/1/2006 | Benefit FAC-5 (5 Year Final Average Compensation) | |
| 4/1/2006 | 6 Year Vesting | |
| 4/1/2006 | Benefit B-4 (80% max) | |
| 4/1/2006 | Benefit F50 (With 25 Years of Service) | |
| 4/1/2006 | Benefit F55 (With 15 Years of Service) | |
| 4/1/2006 | Member Contribution Rate 4.34% | |
| 10/19/1965 | Covered by Act 88 | |
| | Fiscal Month - October | |

Plan Provisions, Actuarial Assumptions, and Actuarial Funding Method

Details on MERS plan provisions, actuarial assumptions, and actuarial methodology can be found in the <u>Appendix</u>. Some actuarial assumptions are specific to this municipality and its divisions. These are listed below.

Increase in Final Average Compensation

| Division | FAC Increase Assumption |
|---------------|----------------------------|
| All Divisions | 1.00% |

Withdrawal Rate Scaling Factor

| Division | Withdrawal Rate Scaling Factor |
|---------------|-----------------------------------|
| All Divisions | 80% |

Miscellaneous and Technical Assumptions

Loads - None.

Amortization Policy for Closed Divisions

| Closed Division | Amortization Option |
|----------------------|-------------------------------------|
| All Closed Divisions | Accelerated to 15-Year Amortization |