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October 28, 2016

## **VIA E-MAIL**

Steve Rodeman Executive Director Oregon PERS

Re: Request Number: 2016-008

Analysis of Potential 2017 Legislation: \$100,000 Final Average Salary Limit

Dear Steve:

Per the request noted above, we have estimated the system-wide average effects of introducing a limit of \$100,000 on the Final Average Salary. The limit would apply prospectively, and would affect both Tier 1/Tier 2 members and OPSRP pension members.

Our analysis is based upon our understanding of the current concept as informed by discussions with PERS staff.

We understand the proposed \$100,000 limit on Final Average Salary would apply as follows:

- The limit would apply to the calculation of all OPSRP pension benefits and for Tier 1/ Tier 2 benefits determined under the Full Formula or Formula Plus Annuity calculation methods. Tier 1/Tier 2 benefits determined under the Money Match calculation would not be affected.
- The limit would apply prospectively beginning January 1, 2018 for members with service after that date.
- For members with a Final Average Salary of over \$100,000 as of January 1, 2018, the \$100,000 limit on Final Average Salary would only apply to future service as discussed below. This means two Final Average Salary amounts and two service periods would be tracked and used in subsequent benefit calculations for such members.
  - For example, suppose at January 1, 2018 a member has 20 years of service and a Final Average Salary of \$120,000 as of that date, then continues to work for 5 more years after the effective date with a salary above that level. At their subsequent retirement, the pre-2018 Final Average Salary of \$120,000 would apply to 20 years of service (their pre-2018 service) and the \$100,000 limit would apply to 5 years of service (their post-2017 service).
- The \$100,000 limit level would <u>not</u> be indexed in future years. As a result, a greater share of PERS active members would be affected by the limit over time due to the effects of inflation on wages.

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Tier 2 and OPSRP pension participants are already subject to a limit on the amount of annual salary in any year that may be reflected in the FAS calculation. This limit is consistent with the level prescribed in Internal Revenue Code Section 401(a)(17), which is \$265,000 in 2016 and indexed with inflation in future years.

Other than as described herein, our analysis used the same assumptions as used in the December 31, 2015 Actuarial Valuation. The analysis estimates the impact on Actuarial Accrued Liability and system-wide average advisory <u>uncollared</u> base pension contribution rates calculated in the December 31, 2015 Actuarial Valuation of the changes and assumed implementation dates described above.

The <u>uncollared</u> base pension contribution rate, which this concept lowers, is the theoretical rate which employers would need to pay starting at the valuation date to amortize the unfunded liability over the specified amortization period if future experience follows assumptions. Employers actually pay the <u>collared</u> base pension contribution rate reflecting the effect of the rate collar, which spreads large needed rate increases over several biennia. The system-average uncollared base pension contribution rate in the December 31, 2015 actuarial valuation is more than 8% of payroll greater than the collared base pension contribution rate for the 2017-2019 biennium<sup>1</sup>.

The consultants who worked on this assignment are pension actuaries. We have not explored any legal issues with respect to these change concepts. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

## **SUMMARY OF LIABILITY RESULTS**

The table below summarizes key December 31, 2015 valuation results for pension benefits prior to reflecting any legislative concept, along with the change in those results from the \$100,000 Final Average Salary limit described above.

"Accrued Liability" refers to the net present value of projected future benefits allocated to service already completed as of the valuation date in accordance with the current actuarial cost allocation method, while "Total Liability" also includes the value allocated to projected future service for current active members. The contribution rate shown is a blended rate reflecting the weighted averages of Tier 1, Tier 2 & OPSRP payroll as of the valuation date. The base contribution rate is shown on an <u>uncollared</u> basis. Contribution rates shown in the table are rounded to the nearest 0.05% of payroll.

The change in system-wide December 31, 2015 valuation results is shown below.

<sup>&</sup>lt;sup>1</sup> Slide 23, July 2016 PERS Board Presentation

	12/31/2015 Total	12/31/2015 Accrued	2017-2019 Uncollared Base Pension Employer Contribution Rates (% of Payroll)		
	Liability (\$B)	Liability (\$B)	Normal Cost	UAL	Total
12/31/2015 Pension Valuation Results	\$83.8	\$76.2	11.79%	17.29%	29.08%
Final Average Salary Limit of \$100,000	(\$3.3)	(\$2.0)	(1.30%)	(1.55%)	(2.85%)

Our analysis assumed that employer contribution rates would continue to apply to <u>all</u> subject salary, including salary in excess of the \$100,000 limit.

While under this proposal the \$100,000 Final Average Salary limit would apply to all members, it would not affect all tiers, employer groups, or individual members to the same extent. Examples of this include:

• Liabilities for longer service and later-career members would decrease less percentage-wise than for members earlier in their careers. As a result, Tier 1 liabilities show a smaller relative percentage decrease than Tier 2 liabilities, which in turn have a smaller percentage decrease than OPSRP liabilities. This is because longer-service members will have fewer expected future working years that will be subject to the concept's Final Average Salary limit. In addition, longer-service Tier 1 members are more likely to have their benefit determined by the Money Match calculation, which is unaffected by the limit. The table below shows the percentage decrease in Actuarial Accrued Liability by tier.

	% Decrease in Accrued Liability for Active Members		
Tier 1	-4.4%		
Tier 2	-12.8%		
OPSRP Pension	-18.1%		

 The liability effects of this concept differ significantly between school district general service members, all other general service members and police and fire members. The differing impacts are primarily caused by differences in the salary distributions of different types of employers.

	% Decrease in Accrued Liability for Active Members
School Districts	-3.9%
Other General Service	-9.5%
Police & Fire	-17.4%

 The effects of this concept differ significantly from member to member; members with lower salaries may not be impacted by a Final Average Salary limit while more highlypaid members are significantly impacted. Also, as mentioned, members whose benefits are determined under the Money Match calculation would be unaffected.

# **DATA, METHODS, ASSUMPTIONS AND PROVISIONS**

Other than the exceptions and additions discussed in this letter, the data, methods, assumptions, and plan provisions used to calculate employer contribution rates are the same as those used in the December 31, 2015 System-wide Actuarial Valuation Report, which we anticipate publishing in September 2016. That information, including a discussion of the inherent limitations of use of actuarial valuation results, is herein incorporated to this letter by reference.

Our valuation assumptions portion of the analysis does not include any assumed change in participant behavior such as retirement patterns due to the proposed changes in policy, or to bargaining agreements or employer pay practices as a result of any legislative changes. Such potential impacts merit consideration. Actual experience will vary from assumption, and sometimes the variance from assumption will be significant. The variance will affect the long-term financial impact of any proposed legislation.

In calculating the illustrative changes in uncollared employer base employer contribution rates shown above, we assumed all changes in Actuarial Accrued Liability were amortized over a closed 20-year period as a level percent of projected payroll using current valuation assumptions. This is the method currently used in the valuation when establishing new Tier 1/ Tier 2 UAL amortization bases. If a different amortization method were used, the overall impact on employer rates could be significantly different than shown in this letter.

## **ACTUARIAL BASIS AND QUALIFICATIONS**

In preparing this letter and the valuation report on which it is based, we relied, without audit, on information (some oral and some in writing) supplied by Oregon PERS. This information includes, but is not limited to, statutory provisions, employee data, and financial information. We found this information to be reasonably consistent and comparable with information used for other purposes. The updated estimates depend on the integrity of this information. If any of this

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information is inaccurate or incomplete our results may be different and our calculations may need to be revised.

All costs, liabilities, rates of interest, and other factors for the System have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the System and reasonable expectations); and which, in combination, offer a reasonable estimate of anticipated experience affecting the System.

Future actuarial measurements may differ significantly from the current measurements presented in this estimate due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period, additional cost or contribution requirements based on the plan's funded status, or a change in the cost allocation method); and changes in plan provisions or applicable law. Due to the limited scope of this estimate, we did not perform an analysis of the potential range of future measurements. The Board has the final decision regarding the valuation assumptions and adopted the assumptions used in the December 31, 2015 valuation in September 2015.

Actuarial computations presented in this estimate are for purposes of providing a high-level analysis of the requested change concepts to the System. As such, they cannot be relied upon for financial reporting or other purposes, and calculations for purposes other than this use may be significantly different from the estimates contained in this letter. Accordingly, additional determinations may be needed for other purposes.

Milliman's work is prepared solely for the use of Oregon PERS. Milliman does not intend to benefit or create a legal duty to any third party recipient of its work product. No third party recipient of Milliman's work product should rely upon Milliman's work product. Such recipients should engage qualified professionals for advice appropriate to their own specific needs.

The consultants who worked on this assignment are pension actuaries. We have not explored any legal issues with respect to the change concepts. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

The signing actuaries are independent of the System. We are not aware of any relationship that would impair the objectivity of our work.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein.

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If you have any questions about our response or need any additional information, please let us know.

Scott D. Preppernau,

Principal and Consulting Actuary

Sincerely,

Matt Larrabee, FSA, EA, MAAA Principal and Consulting Actuary

MRL:sdp

cc: Debra Hembree, Marjorie Taylor

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