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# Western Conference of Teamsters Pension Plan

## January 1, 2015 Actuarial Valuation

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August 31, 2015

Board of Trustees  
Western Conference of Teamsters Pension Plan

Dear Trustees:

As requested, we performed an actuarial valuation of the Western Conference of Teamsters Pension Plan as of January 1, 2015, for the Plan Year ending December 31, 2015. Our findings are set forth in this actuary's report.

In preparing this report, we relied, without audit, on information supplied by the administrative office, the Plan's independent auditor and the Plan's attorney. This information includes, but is not limited to, Plan documents and provisions, employee data, and financial information. The financial information was taken from a draft of the audit report and is, hence, subject to finalization. We found this information to be reasonably consistent and comparable with information used for other purposes. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete our results may be different and our calculations may need to be revised.

For actuarial requirements under ERISA, all costs, liabilities, rates of interest, and other factors under the Plan (except when mandated directly by the Internal Revenue Code and its regulations) have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the Plan and reasonable expectations) and which, in combination, offer our best estimate of anticipated experience under the Plan. We completed this actuarial valuation in accordance with our understanding of IRS minimum funding requirements as amended by subsequent legislation, including the Pension Protection Act of 2006 (PPA), the Pension Relief Act of 2010 (PRA) and the Multiemployer Pension Reform Act of 2014, and reflecting all proposed regulations and guidance issued to date.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to many factors, including: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the Plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements. Actuarial computations under ERISA are to determine the minimum required, and maximum allowable funding amounts, and the unfunded vested benefit liability for purposes of withdrawal liability for an ongoing plan. The calculations in the enclosed report have been made on a basis consistent with our understanding of ERISA.

For actuarial requirements under FASB ASC Topic 960, all liabilities, rates of interest, and other factors under the Plan have been determined on the basis of actuarial assumptions and methods which are reasonable and consistent with our understanding of FASB ASC Topic 960. Results for other purposes may be significantly different than the results in this report; other calculations may be needed for other purposes, such as judging benefit security at plan termination.

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The consultants who worked on this assignment are pension actuaries. Milliman's advice is not intended to be a substitute for qualified legal or accounting counsel.

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.

We respectfully submit the following report, and we look forward to discussing it with you.

Sincerely,



Peter R. Sturdivan, FSA, EA, MAAA  
Principal and Consulting Actuary

PRS:ccg

## Table of Contents

	<u>Page</u>
<b>LETTER OF CERTIFICATION</b>	
<b>SECTION 1 – Summary of Valuation Results</b> .....	1
<b>SECTION 2 – Introduction</b> .....	12
<b>SECTION 3 – Trust Fund Activity</b> .....	13
Exhibit 3.1 – Market Value of Assets .....	14
Exhibit 3.2 – Receipts and Disbursements .....	16
Exhibit 3.3 – Investment Return .....	17
Exhibit 3.4 – Actuarial Value of Assets .....	18
Exhibit 3.5 – Assets for Withdrawal Liability.....	20
Exhibit 3.6 – Net Cash Flow .....	21
<b>SECTION 4 – Contribution Requirements and Amortization Period</b> .....	22
Exhibit 4.1 – Actuarial Balance Sheet .....	24
Exhibit 4.2 – Analysis of Change in the Unfunded Actuarial Liability.....	25
Exhibit 4.3 – Normal Cost.....	26
Exhibit 4.4 – Funding Standard Account as of 2014.....	27
Exhibit 4.5 – Projected Funding Standard Account as of 2015.....	28
Exhibit 4.6 – Maximum Tax-Deductible Contribution .....	30
Exhibit 4.7 – Amortization Period .....	32
<b>SECTION 5 – Funded Status</b> .....	33
Exhibit 5.1 – Statement of Actuarial Present Value of Accumulated Plan Benefits .....	34
Exhibit 5.2 – Statement of Changes in Actuarial Present Value of Accumulated Plan Benefits.....	35
Exhibit 5.3 – Unfunded Vested Benefit Liability .....	36
<b>SECTION 6 – History and Projections</b> .....	37
Exhibit 6.1 – Historical Statistics .....	38
Exhibit 6.2 – Projected Benefit Payouts .....	39
<b>Appendix A – Summary of the Plan</b> .....	40
<b>Appendix B – Participant Statistics</b> .....	51
<b>Appendix C – Actuarial Assumptions and Methods</b> .....	75

# Summary of Valuation Results

<b>Overview of Results</b>	<b>Actuarial Valuation for Plan Year Beginning</b>	
(\$ In Thousands)	January 1, 2014	January 1, 2015
<b>Assets</b>		
Market Value of Assets	\$35,193,014	\$36,739,196
Actuarial Value of Assets	\$35,478,550	\$36,878,833
Investment Return (non-dedicated assets)		
Market Value of Assets	15.25%	7.56%
Actuarial Value of Assets	7.66%	7.46%
<b>Funded Status</b>		
Actuarial Accrued Liability	\$39,116,028	\$40,167,611
Market Funded Percentage	90.0%	91.5%
Actuarial (Pension Protection Act) Funded Percentage	90.7%	91.8%
<b>Withdrawal Liability</b>		
Present Value of Vested Benefits	\$37,280,381	\$38,337,368
Assets for Withdrawal Liability	\$32,019,915	\$34,284,858
Unfunded Vested Benefit Liability (UVBL)	\$5,260,466	\$4,052,510
<b>Credit Balance and Contribution Requirements</b>		
Actuarial Accrued Liability	\$39,116,028	\$40,167,611
Actuarial Value of Assets	\$35,478,550	\$36,878,833
Unfunded Actuarial Accrued Liability	\$3,637,478	\$3,288,778
Credit Balance at End of Prior Year	\$2,446,164	\$2,714,643
Normal Cost (including expenses)	\$798,458	\$849,190
Anticipated Contributions	\$1,401,000	\$1,500,000
Contribution to Maintain Credit Balance (Middle of Year)	\$1,276,363	\$1,324,638
Actual Contributions	\$1,544,129	To Be Determined
<b>Amortization Period</b>		
Actuarial Value of Assets	8.3 years	6.7 years
Market Value of Assets	9.2 years	7.1 years
<b>Participant Data</b>		
Retirees & Beneficiaries <sup>(1)</sup>	217,924	221,502
Vested Inactive Participants	167,940	166,440
Active Participants	<u>195,620</u>	<u>197,120</u>
Total Participants in Valuation	581,484	585,062
<sup>(1)</sup> The figures above are estimated counts. The retired life valuation included 252,493 and 257,987 records as of January 1, 2014 and January 1, 2015 respectively.		
<b>Certification Status</b>	Green	Green

## A. Purpose of this Report

This report has been prepared for the Western Conference of Teamsters Pension Plan as of January 1, 2015 to:

- § Review the Plan's funded status as of January 1, 2015.
- § Review the experience for the plan year ending December 31, 2014, including the Plan's trust fund activity and investment return, and changes in plan participant demographics that impact liabilities.
- § Calculate the Plan's funding requirements under ERISA for the plan year beginning January 1, 2015.
- § Determine the Plan's Amortization Period as of January 1, 2015.
- § Determine the Plan's Unfunded Vested Benefit Liability for withdrawal liability purposes as of December 31, 2014 in accordance with the Multiemployer Pension Plan Amendments Act of 1980.
- § Determine the actuarial present value of accumulated plan benefits as of December 31, 2014 for purposes of disclosing the Plan's liabilities under FASB ASC Topic 960.

## B. Plan Provisions

The valuation reflects the plan provisions in effect on January 1, 2015. The following changes occurred during the plan year ending December 31, 2014:

- § Several bargaining units chose PEER coverage for the first time, or chose more valuable PEER coverage. These actions increased the Plan's actuarial liability by approximately \$15 million. The increases in contributions due to the associated contribution rate increases serve to offset the impact on the unfunded actuarial liability over time.

In addition, the following changes were made to the Plan's provisions:

- § Technical amendment regarding employee and spouse actuarial factors,
- § Windsor resolution – same sex marriages; amended date references

This valuation was not impacted by these amendments.

## C. Actuarial Methods and Assumptions

Other than the assumptions mandated by the IRS, the following changes were made to the assumptions for this valuation in order to reflect recent and anticipated plan experience:

- § The discount rate used for the 1982/1984 Annuity Account was changed to 5.87% for 2015 from 6.59% for 2014, and the discount rate used for the SBA Dedication was changed to 4.88% for 2015 from 4.42% for 2014.

The change in discount rates decreased the Plan's actuarial liability by about \$93 million.

- § The assumed annual rates of post-retirement mortality and pre-retirement healthy mortality for females were changed to the RP2014 Female Blue Collar Employee/Annuitant tables, with a 1 year age set forward projected to year 2020 using Scale BB also set forward 1 year. The previous assumption was based on the RP 2000 Mortality Tables for Female Employees adjusted for Blue Collar and projected by Scale AA to 2017.
- § Our method for determining liabilities for participants whose records do not contain valid dates of birth has been revised. Formerly, we accounted for these participants' liabilities by applying adjustment factors to the liabilities calculated for the complete records. Starting with this year's valuation, we are instead adding imputed dates of birth to the incomplete records and including them in the valuation data file.

The change in discount rates decreased the Plan's actuarial accrued liability by about \$93 million. The other changes increased the Plan's actuarial liability by about \$273 million.

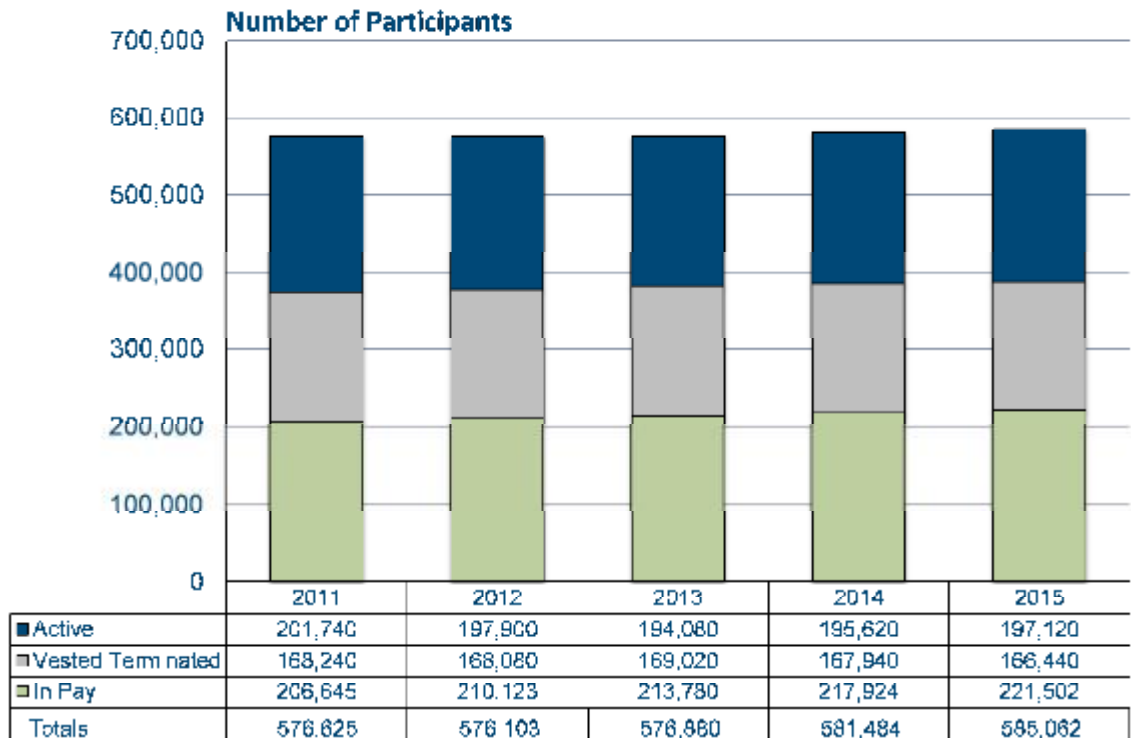
In addition, the following changes were made:

- § The annual non-investment expenses assumption was increased from \$87 million to \$97 million primarily due to the increase in PBGC premiums.
- § The anticipated annual employer contributions were increased to \$1.5 billion for purposes of projecting the 2015 Funding Standard Account and determining the Amortization Period.
- § The demographics of the new entrant cohort were updated to better reflect the demographics of the recent new entrants to the Plan. This change increases the new entrant load to the normal cost from approximately \$9.8 to \$13.3 million.

## D. Participant Information

### Participant Counts

The following chart shows the number of participants included in this valuation, along with comparable information from the last several valuations.

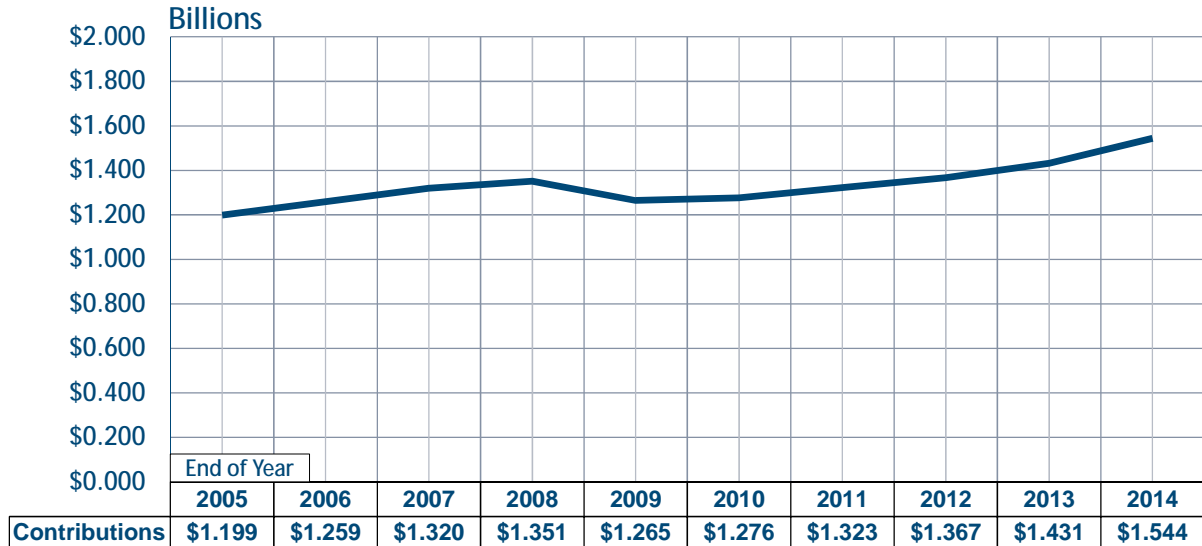


For valuation purposes, an active participant is not retired, terminated or deceased on the valuation date, has satisfied the participation requirements of the Plan, and worked at least 250 hours in the plan year immediately prior to the valuation date, or worked at least one hour in the plan year immediately prior to the valuation date and worked at least 250 hours in the second plan year preceding the valuation date.



**Contributions**

Based on the assumptions used for the Plan’s zone certification under the Pension Protection Act, contributions for the plan year beginning January 1, 2015 are expected to be \$1,500,000,000. The graph below shows how this level compares with the Plan’s historical level of contributions.



**E. Plan Assets**

The Plan’s market value of assets is the value of net assets available for benefits as shown on the Plan’s financial statements. The Plan’s assets are split into dedicated assets and non-dedicated assets.

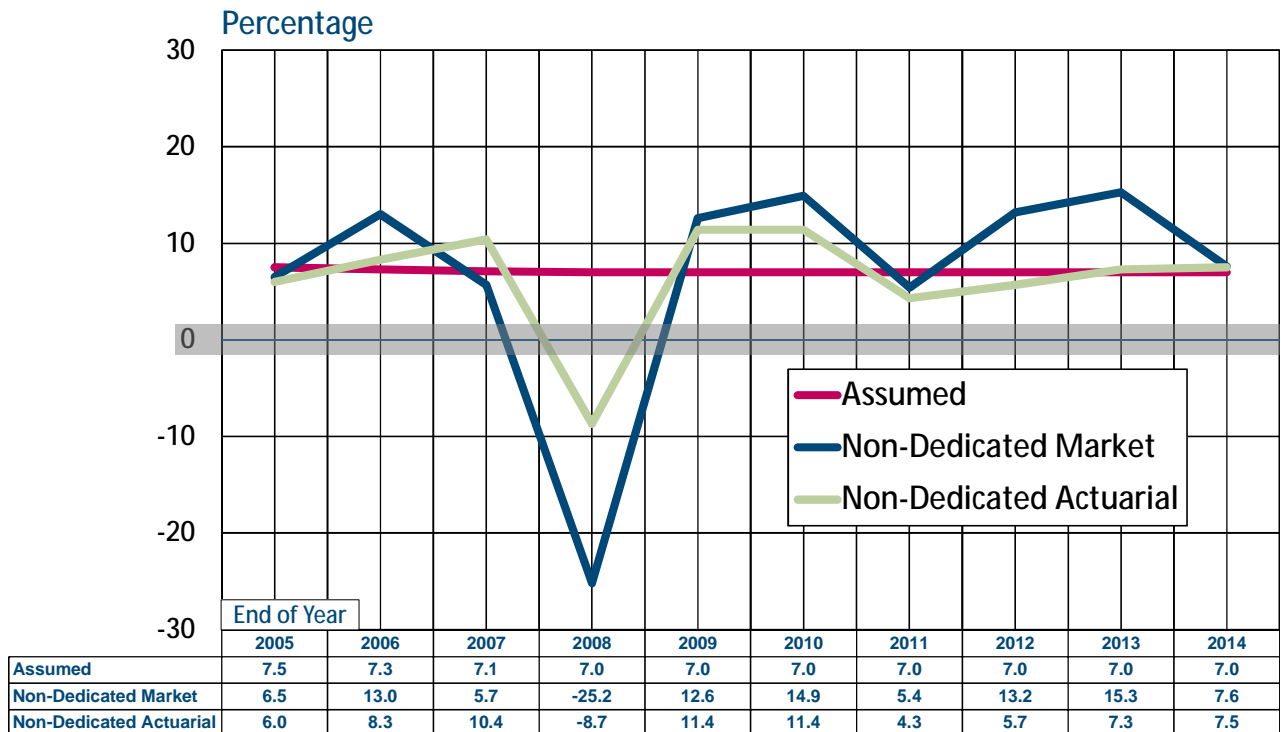
The dedicated assets include the Fixed Dollar Account (FDA), the 1982/84 Annuity Account (82/84 Account), and the Strategic Bond Account (SBA). The FDA is held at book value. The FDA includes the Supplemental Bond Fund, which is an additional amount necessary to maintain cash flow matching and it is held at amortized cost. The two other accounts are also held at amortized cost.

The Plan uses an asset smoothing method on the non-dedicated portion of the assets that recognizes market value investment gains and losses over a period of five years, except that the Trustees elected to recognize the 2008 investment loss over 10 years under the Pension Relief Act of 2010. For purposes of developing the Unfunded Vested Benefit Liability, the Pension Relief Act of 2010 election is ignored.

The sum of the dedicated assets and the smoothed value of non-dedicated assets is called the actuarial value of assets, and is used for determining the PPA funded percentage, the minimum and maximum contributions under ERISA, and computation of the Amortization Period. The table below shows these values along with the Plan’s rate of investment return, net of investment expenses, over the past five years.

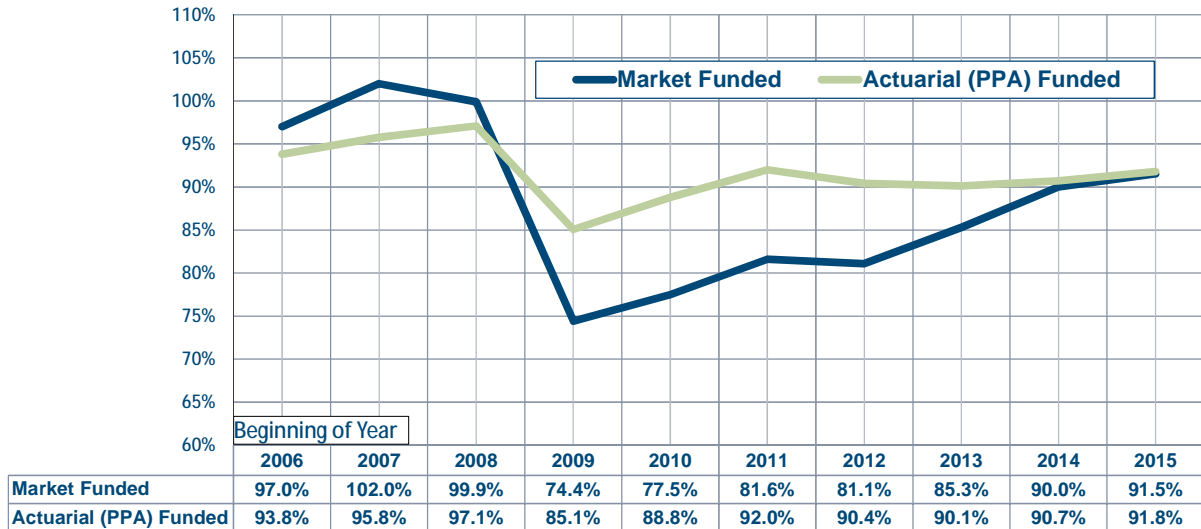
January 1,	Prior Year Rate of Return		(\$ In Thousands)		
	Market	Actuarial	Market Value of Assets	ERISA Actuarial Value of Assets	UVBL Actuarial Value of Assets
2015	7.56%	7.46%	\$36,739,196	\$36,878,833	\$34,284,858
2014	12.59	7.33	35,193,014	35,478,550	32,019,915
2013	11.93	5.82	32,309,867	34,132,485	29,809,192
2012	6.26	4.62	29,891,186	33,310,140	29,851,506
2011	13.53	10.55	29,164,847	32,880,990	30,287,014

Over the past 20 years, the Plan's total assets have averaged an 8.15% return on a market value basis, net of investment expenses. The Plan's non-dedicated assets have averaged an 8.86% return on a market value basis, net of investment expenses over the same time period. The numerical history can be found on Exhibit 3.3 in this report. The graph below shows the Plan's annual returns on the non-dedicated assets over this time period, compared with the Plan's investment return assumption.



## F. Funded Status

An important indicator of the Plan's funded status is the ratio of the Plan's *market value of assets* to the Plan's liability for all benefits earned to date, called the actuarial accrued liability. For purposes of determining the Plan's zone status under the PPA, the Plan's *actuarial value of assets* is compared with this liability measurement. Below is a chart showing a historical comparison of these measurements



Below is a table that details the relevant information for the past several valuations.

January 1,	Actuarial Accrued Liability (\$ In Thousands)				Market Value Funded %	Actuarial Value (PPA) Funded %
	Retirees & Beneficiaries	Vested Inactive	Active	Total		
2015	\$22,796,728	\$4,494,421	\$12,876,462	\$40,167,611	91.5%	91.8%
2014	22,111,382	4,422,913	12,581,733	39,116,028	90.0	90.7
2013	20,981,370	4,465,074	12,419,003	37,865,447	85.3	90.1
2012	20,394,735	4,247,924	12,204,678	36,847,337	81.1	90.4
2011	19,775,329	4,194,890	11,759,007	35,729,226	81.6	92.0

The **Annual Funding Notice** to participants must be distributed within 120 days of the end of the plan year and will include the actuarial (PPA) funded percentage for 2013, 2014, and 2015, as shown above.

## G. Contribution Requirements

### Actuarial Accrued Liability

For computing ERISA minimum and maximum funding requirements, the actuarial cost method takes into account benefits that are earned to date. The resulting liability is called the actuarial accrued liability, and is compared with the actuarial value of assets, as shown below.

January 1,	(In Thousands)		
	Actuarial Accrued Liability	Actuarial Value of Assets	Unfunded Actuarial Accrued Liability
<b>2015</b>	\$40,167,611	\$36,878,833	\$3,288,778
<b>2014</b>	39,116,028	35,478,550	3,637,478
<b>2013</b>	37,865,447	34,132,485	3,732,962
<b>2012</b>	36,847,337	33,310,140	3,537,197

### Development of Minimum Required Contribution and Credit Balance

The Plan's minimum required contribution consists of two components:

- § Gross normal cost, which includes the cost of benefits allocated to the next plan year and administrative expenses expected to be paid in the next plan year, and
- § Amortization payments to the unfunded actuarial accrued liability.

If contributions do not meet these costs, the Plan's credit balance, which was created by contributions in excess of minimum required contributions in past years, may be used to offset the costs. The table below summarizes the Plan's contribution requirements, actual contributions, and credit balance over the last several years.

(In Thousands)						
December 31,	Normal Cost	Net Amortization Payment	Annual Cost, Beginning of Year	Contribution To Maintain Credit Balance	Actual Contribution	Credit Balance, End of Year
<b>2015</b>	\$849,190	\$609,712	\$1,458,902	\$1,324,638	\$1,500,000 <sup>(1)</sup>	\$2,887,176
<b>2014</b>	798,458	596,184	1,394,642	1,276,363	1,544,129	2,714,643
<b>2013</b>	767,700	600,481	1,368,181	1,260,413	1,431,091	2,446,164
<b>2012</b>	744,736	562,808	1,307,544	1,208,316	1,367,269	2,277,520
<b>2011</b>	515,637	756,114	1,271,751	1,180,723	1,322,549	2,120,933

<sup>(1)</sup> Expected based on information from the Administrative Office.

## H. Amortization Period

The Plan's amortization period is a measure of the long-term financial solvency of the Plan. The amortization period is the number of years necessary for a level excess of anticipated employer contributions over the normal cost and administrative expenses to pay off the unfunded actuarial liability or funding shortfall. The unfunded actuarial liability is the difference between the actuarial liability and the actuarial value of assets. The funding shortfall is the difference between the actuarial liability and the market value of assets.

PPA requires plans to amortize changes in the unfunded actuarial liability (i.e. annual experience gains and losses, changes in assumptions and plan amendments) over a 15-year period. The average amortization period at any point in time under PPA is about 10 years. Therefore, based on the unfunded actuarial liability, an amortization period of less than 10 years is desired.

Amortization Period		
	January 1, 2014	January 1, 2015
Unfunded Actuarial Liability (UAL)	\$3,637,478	\$3,288,778
Expected Employer Contributions	1,401,000	1,500,000
Normal Cost plus Expenses (payable monthly)	828,106	880,722
Excess Contributions	572,894	619,278
Years to Amortize UAL	8.3	6.7
Funding Shortfall on a Market Value basis	3,923,014	3,428,415
Years to Amortize Market Funding Shortfall	9.2	7.1

## I. Unfunded Vested Benefit Liability

Withdrawing employers are assessed a portion of the Plan's unfunded vested benefit liability for withdrawal liability, which is determined by subtracting the Plan's assets for withdrawal liability purposes (calculated in Exhibit 3.5) from the liability for all *vested* benefits earned to date. The assets for withdrawal liability are identical to the actuarial value of assets except that the 2008 investment loss is recognized over five years rather than 10 years. The table below summarizes this information for the past several years.

(In Thousands)			
December 31,	Present Value of Vested Benefits	Assets For Withdrawal Liability	Unfunded Vested Benefit Liability
2014	\$38,337,368	\$34,284,858	\$4,052,510
2013	37,280,381	32,019,915	5,260,466
2012	36,108,886	29,809,192	6,299,694
2011	34,993,567	29,851,506	5,142,061
2010	33,829,110	30,287,014	3,542,096

## J. Zone Status

### Zone Status

The following chart shows the Plan's Zone Status that has been reported in the Actuarial Certification since PPA became effective beginning in 2008.

Plan Year Beginning January 1,	Zone Status
2015	Green
2014	Green
2013	Green
2012	Green
2011	Green
2010	Green
2009	Green
2008	Green

As shown above, the Plan is neither endangered nor critical for the plan year beginning January 1, 2015.

### **Benefit Restrictions**

The Plan is subject to certain restrictions on Plan amendments increasing benefits because the Trustees elected funding relief under the Pension Relief Act of 2010. In general, such a plan amendment cannot go into effect unless the plan actuary certifies that the increase is paid for out of additional contributions that were not allocated to the plan at the end of the prior plan year. This restriction will remain in effect through December 31, 2016.

## **K. Plan Experience**

### **Initial Observations**

We note the following comparisons from last year's valuation:

- Employer contributions in 2014 (exclusive of withdrawal liability payments) increased by 7.2% to \$1.51 billion from \$1.41 billion in 2013.
- Benefit payments increased by 2.9% to \$2.53 billion in 2014 from \$2.46 billion in 2013.
- Administrative expenses in 2014 amounted to 5.7% of total employer contributions; compared with 6.1% in the previous two years.
- The net assets available for plan benefits on a market value basis increased by \$1.5 billion during 2014, compared with an increase of \$2.9 billion during the previous year.

### **Impact of Plan Experience during Prior Plan Year**

Actuarial gains are produced from more favorable experience than assumed in the previous valuation. On the other hand, actuarial losses are produced from experience less favorable than assumed. The most important of these gains and losses are shown below and described in the paragraphs that follow.

### ***Investment Return***

The estimated investment return on the net market value of assets was approximately 7.6% for 2014. The corresponding returns for 2013 and 2012 were 12.6% and 11.9% respectively.

The estimated market value investment return for 2014 on non-dedicated assets was about 7.6%, resulting in an approximate \$170 million gain over the assumed net investment return of 7.0%. In the same year, the net investment return on the actuarial value of non-dedicated assets was approximately 7.5%, resulting in an approximate \$140 million gain. The investment return on the actuarial value of non-dedicated assets trails the investment return on the market value of non-dedicated assets because of the smoothing of investment gains and losses. Due to the election of PRA 2010 relief, the 2008 investment loss continues to be recognized at about \$865 million annually (over ten years) while other non-dedicated investment gains and losses are recognized over five years. The last portion of the 2008 investment loss will be fully recognized by January 1, 2018.

The investment return on the actuarial value of total assets was estimated to be 7.5%. This resulted in an actuarial gain of about \$120 million, slightly lower than the gain on the non-dedicated assets due to small losses on the dedications which are held at either book value or amortized cost.

### ***Demographic Experience***

The gains and losses due to all non-investment experience during 2014 increased the Plan's actuarial liability by approximately 0.14%, or \$55 million. The commentary below identifies the major components of the demographic gains and losses experienced during 2014.

### **Change in Contribution Rates**

Various bargaining parties negotiated increases in contribution rates which, due to the Plan's benefit formula, increased benefits earned during 2014. We estimated that the increase in the Plan's liabilities was about \$26 million. The increase in liability is offset over time by the change in contributions resulting from these rate increases.

The following is a summary of the remaining major demographic gains and losses.

### **Demographic Losses**

A demographic loss emerged on continuing active participants because they earned larger benefits during 2014 due to higher hours than expected under the current assumptions. Also actual new entrants displayed different demographic characteristics than expected, and likely earned larger benefits than expected under the new entrant assumption. We note that some or all of the loss is offset by an increase in contributions due to these increased hours and the impact on the unfunded actuarial liability is mitigated.

Another continuing source of demographic loss was the Plan's experience for termination from active status. During 2014, individuals covered under PEER were not terminating as quickly as assumed, while individuals who did not have PEER were actually leaving employment in greater numbers than expected.

### **Demographic Gains**

The largest source of demographic gain was from retirement from active status and inactive status. Individuals chose to work and/or delay retirement when compared with the current assumptions. The gain from retirement is consistent with the Plan's retirement experience in recent years.

### **Comments**

The overall loss is not very large indicating that, in the aggregate, the current assumptions produced reasonable results. However, given the experience detailed above and in our mortality study, we will review the following assumptions for possible changes in the 2016 valuation or a future valuation:

- Retirement from active and inactive status
- Termination from active status
- Postretirement and preretirement male mortality
- Postretirement disability mortality

### **Sensitivity of Results**

The results presented in this report are dependent upon the actuarial assumptions being realized in the future. To the extent that actual Plan experience differs from the assumptions, future actuarial costs will differ from those presented in this report. For example, actuarial gains and losses emerge in plan years where actual contribution amounts differ from those anticipated by our assumptions.



## SECTION 2 Introduction

The purpose of this actuarial valuation of the Western Conference of Teamsters Pension Plan is to review last year's activity, compute this year's cost, and test the Plan's funded status. Specifically:

- § In Section 3, we summarize the Plan's trust fund activity and measure its investment return.
- § In Section 4, we evaluate the Plan's contribution requirements, determine the appropriate charges and credits to the ERISA minimum Funding Standard Account for the plan year ending December 31, 2014, and estimate the credit balance at the end of this year. We also calculate the maximum tax-deductible contribution for the plan year ending December 31, 2014, and the Amortization Period as of January 1, 2015.
- § In Section 5, we test the Plan's funded status by comparing the market value of assets with the actuarial present value of accumulated plan benefits, computed in accordance with FASB ASC Topic 960. We also summarize the Plan's Present Value of Vested Benefits in Exhibit 5.3 and calculate the Plan's Unfunded Vested Benefit Liability for withdrawal liability purposes.
- § In Section 6, we compare the significant results of this valuation with those of the last nine valuations, and provide a 20-year projection of the Plan's expected benefit payments. Exhibit 6.3 includes a summary of contribution rates and benefit improvements since Plan inception.

The appendices present a summary of the Plan, participant statistics (active, retired, inactive vested), a description of the unit credit cost method, and a summary of our actuarial assumptions.

## SECTION 3 Trust Fund Activity

In this section, we show the present status of the Plan's trust fund, trust activity over the past year, and historical investment return.

**Exhibit 3.1** lists the types of assets held and their market value.

**Exhibit 3.2** summarizes the fund's receipts and disbursements during the past year.

**Exhibit 3.3** summarizes the fund's investment return, net of investment-related expenses. The exhibit displays annual rates of return at market value on all assets and non-dedicated assets for each of the last 20 years. For the plan year ended December 31, 2014, the assets of the fund experienced a 7.56% investment return, net of investment-related expenses, when measured at market value. The non-dedicated assets also experienced a 7.56% investment return, net of investment expenses for the plan year ending December 31, 2014. This should be compared with our assumed rate of 7.00% net of investment expenses.

**Exhibit 3.4** develops the actuarial value of assets as of December 31, 2014 and reflects 10-year smoothing of the 2008 net investment loss, as elected under the Pension Relief Act of 2010.

**Operation of the Actuarial Asset Valuation Method for Non-Dedicated Assets** presents the recognition of investment gains and losses on a market value basis over actuarial expectation.

**Exhibit 3.5** develops the assets as of December 31, 2014 for the purpose of determining employer liability upon withdrawal from the Plan during 2015. The 2008 net investment loss has been fully recognized.

**Exhibit 3.6** presents the progress of the fund balance for the past 20 years in terms of employer contributions, benefit payments, operating expenses, other income and net investment income.

### Exhibit 3.1

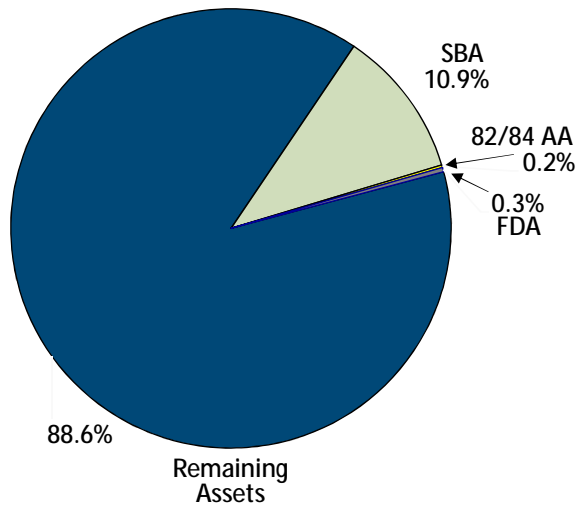
#### Market Value of Assets (December 31, 2014)

<u>ASSETS</u>	<u>2014</u>
INVESTMENTS - at fair value	
103-12 investment entities	\$1,091,162,576
Cash and cash equivalents	1,423,140,396
Common/collective trusts	10,613,315,407
Corporate debt securities	2,427,764,728
Equity securities	3,939,823,295
Insurance company contracts	9,191,446,740
Limited partnerships	4,152,827,447
Mutual fund	326,588,038
Other private equity	881,409,915
Real estate	1,105,434,794
U.S. Government and Government Agency obligations	<u>414,279,692</u>
	<u>35,567,193,028</u>
Securities on loan	
Corporate debt securities	20,623,449
Equity securities	429,234,225
Insurance company contracts	1,940,497,405
U.S. Government and Government Agency obligations	<u>77,630,433</u>
	<u>2,467,985,512</u>
Fair value of collateral held for securities on loan	<u>2,425,210,467</u>
Total investments	<u>40,460,389,007</u>
RECEIVABLES	
Due from broker for securities sold	413,279,923
Contributions due from employers - net	114,070,392
Withdrawal liability receivable - net	18,000,000
Accrued investment income	81,324,737
Swaps receivable from counterparties	618,929
Forward foreign currency contracts	<u>354,829</u>
Total receivables	<u>627,648,810</u>
OTHER ASSETS	3,469,201
CASH	<u>6,493,634</u>
Total assets	<u>41,098,000,652</u>
<b>LIABILITIES AND NET ASSETS</b>	
LIABILITIES	
Liability to return collateral held for securities on loan	2,523,494,471
Securities sold, not yet purchased	1,334,072,702
Due to broker for securities purchased	477,236,746
Accounts payable and accrued expenses	22,241,658
Swaps payable to counterparties	1,407,875
Forward foreign currency contracts	<u>350,816</u>
Total liabilities	<u>4,358,804,268</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u>\$ 36,739,196,384</u>

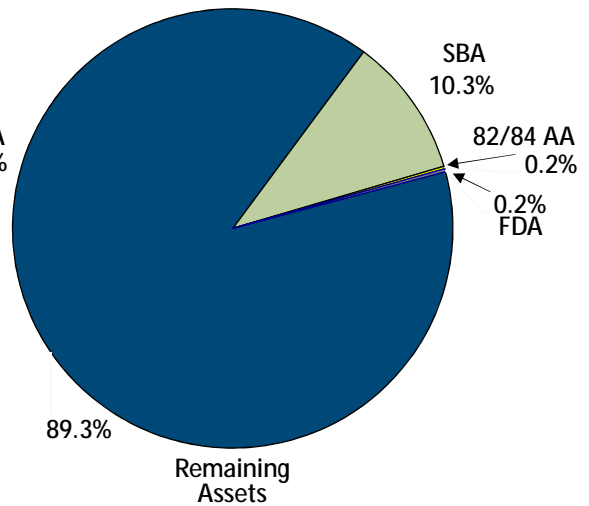
### Exhibit 3.1 (Continued)

(In Thousands)		
	Year Ending December 31, 2013	Year Ending December 31, 2014
a. Fixed Dollar Account (Including Supplemental Bond Account)	\$ 121,313	\$ 94,100
b. 1982/1984 Annuity Account	68,127	60,521
c. Strategic Bond Account	3,833,377	3,775,869
d. All Remaining Assets	<u>31,170,197</u>	<u>32,808,706</u>
e. Net Assets Available for Plan Benefits	\$ 35,193,014	\$ 36,739,196

December 31, 2013



December 31, 2014



## Exhibit 3.2

### Receipts and Disbursements (Year Ended December 31, 2014)

	<u>2014</u>
<b>ADDITIONS</b>	
Investment income	
Interest, dividends and other investment income	\$ 807,655,427
Net appreciation in fair value of investments	1,977,419,262
Net appreciation in fair value of collateral held for securities on loan	<u>5,601,469</u>
	2,790,676,158
Less investment expenses	<u>(169,863,190)</u>
Investment income - net	2,620,812,968
Employer contributions	1,508,028,726
Employer withdrawal liability income	36,100,497
Other income	<u>1,980,293</u>
Total additions	4,166,922,484
<b>DEDUCTIONS</b>	
Pension benefits	2,530,265,208
Administrative expenses	88,635,638
Income tax expense	<u>490,737</u>
Total deductions	2,619,391,583
<b>NET CHANGE</b>	1,547,530,901
<b>NET ASSETS AVAILABLE FOR BENEFITS</b>	
Beginning of year	<u>35,193,013,563</u>
Adjustment to Final Assets	<u>(1,348,080)</u>
End of year	<u>\$ 36,739,196,384</u>

### Exhibit 3.3

#### Investment Return

Market Value of Assets Annual Rate of Investment Return					
Annual Rate for One-Year Period			Average Annual Rate for Period Ending December 31, 2014		
Plan Year Ending December 31,	All Assets	Non- Dedicated Assets	Period	All Assets	Non- Dedicated Assets
2014	7.56%	7.56%	1	7.56%	7.56%
2013	12.59%	15.25%	2	10.05%	11.34%
2012	11.93%	13.15%	3	10.67%	11.94%
2011	6.26%	5.35%	4	9.55%	10.26%
2010	13.53%	14.87%	5	10.34%	11.16%
2009	10.96%	12.60%	6	10.44%	11.40%
2008	-20.58%	-25.23%	7	5.36%	5.23%
2007	5.41%	5.67%	8	5.36%	5.29%
2006	10.61%	12.98%	9	5.94%	6.12%
2005	6.05%	6.55%	10	5.95%	6.16%
2004	9.49%	10.22%	11	6.26%	6.52%
2003	16.33%	20.76%	12	7.07%	7.64%
2002	-2.29%	-7.56%	13	6.32%	6.39%
2001	2.05%	0.89%	14	6.01%	5.99%
2000	3.35%	0.46%	15	5.83%	5.61%
1999	8.08%	14.06%	16	5.97%	6.12%
1998	14.86%	16.28%	17	6.47%	6.69%
1997	19.22%	23.21%	18	7.14%	7.55%
1996	9.11%	15.69%	19	7.24%	7.96%
1995	26.98%	27.50%	20	8.15%	8.86%

All rates reflect total investment return, net of investment-related expenses.

### Exhibit 3.4

#### Actuarial Value of Assets (January 1, 2015)

#### Non-Dedicated Asset Reconciliation (In Thousands)

Year	(1) Market Value of Assets beginning of year	(2) Contributions	(3) Benefit Payments	(4) Operating Expenses	(5) Other Transactions	(6) Cash Flow (2)-(3)- (4)+(5)	(7) Actual Investment Income	(8) Market Value of Assets End of Year (1)+(6)+(7)
2014	\$31,170,197	\$1,544,129	\$2,169,123	\$ 88,635	\$ 20,755	(\$692,874)	\$ 2,331,383	\$32,808,706
2013	27,575,124	1,431,091	2,079,846	87,541	169,439	(566,857)	4,161,930	31,170,197
2012	25,024,396	1,367,269	1,972,420	83,759	(5,047)	(693,957)	3,244,685	27,575,124
2011	24,252,606	1,322,549	1,893,208	83,757	141,717	(512,699)	1,284,489	25,024,396
2010	21,809,742	1,276,476	1,804,405	84,716	(131,516)	(744,166)	3,187,025	24,252,606

#### Development of the Actuarial Value of Assets (In Thousands)

Year	Actual Investment Rate of Return*	Actual Investment Return*	Expected Investment Return	Difference between Actual and Expected
2014	7.56%	\$ 2,331,383	\$ 2,157,663	\$173,720
2013	15.25%	4,161,930	1,904,668	2,257,262
2012	13.15%	3,244,685	1,727,419	1,517,265
2011	5.35%	1,284,489	1,679,738	(395,250)

Market Value of Non-Dedicated Assets on January 1, 2015	\$32,808,706
Subtract 80% of \$173,120 gain	(138,976)
Subtract 60% of \$2,257,262 gain	(1,354,357)
Subtract 40% of \$1,517,265 gain	(606,906)
Add back 20% of \$395,250 loss	79,050
Add back 30% of 2008 investment loss of \$8,646,585**	<u>2,593,975</u>
Actuarial Value of Non-Dedicated Assets on January 1, 2015	\$ 33,381,492
Preliminary Actuarial Value as a Percentage of Market Value	102%
Actuarial Value of Non-dedicated Assets (limited to 80%-120% of Market Value)	\$ 33,381,492
Actuarial Value of Dedicated Funds: FDA, 82/84AA, SBA (see Appendix C)	3,497,341
Actuarial Value of Assets on January 1, 2015	\$ 36,878,833

\* Based on market values.

\*\* Investment loss for 2008 is recognized over 10 years as elected under the Pension Relief Act of 2010.

**Exhibit 3.4  
(Continued)**

**Operation of the Actuarial Asset Valuation Method for Non-Dedicated Assets  
(In Thousands)**

**Investment Gain / (Loss) Recognized as of January 1, 2015**

Year	Investment Gain / (Loss) Market over Actuarially Expected	Investment Gain / (Loss) Recognition in Past Years				Investment Gain / (Loss) Recognized in Current Year	Investment Gain / (Loss) Recognized in Future Years					
		2010	2011	2012	2013		2014	2015	2016	2017	2018	2019
2008	(\$8,646,585)	(\$864,659)	(\$864,659)	(\$864,659)	(\$864,659)	(\$864,659)	(\$864,659)	(\$864,659)	(\$864,659)	(\$864,659)		
2009	\$1,098,417	\$219,683	\$219,683	\$219,683	\$219,683							
2010	\$1,686,388	\$337,278	\$337,278	\$337,278	\$337,278	\$337,278						
2011	(\$395,250)		(\$79,050)	(\$79,050)	(\$79,050)	(\$79,050)	(\$79,050)					
2012	\$1,517,265			\$303,453	\$303,453	\$303,453	\$303,453	\$303,453				
2013	\$2,257,262				\$451,452	\$451,452	\$451,452	\$451,452	\$451,452	\$451,452		
2014	\$173,720					\$34,744	\$34,744	\$34,744	\$34,744	\$34,744	\$34,744	
Net Gains / (Losses) Recognized by Year						\$183,219	(\$154,059)	(\$75,009)	(\$378,462)	\$34,744	\$0	
Interest on Prior Year Gains / (Losses)						(\$39,430)	(\$40,095)	(\$29,311)	(\$24,060)	\$2,432	\$0	
Additional Gains / (Losses) Recognized in Current year because of 80% - 120% Corridor						\$0						
Total Gain / (Loss) Recognized by year						\$143,788	(\$194,154)	(\$104,320)	(\$402,523)	\$37,176	\$0	
Total Gains / (Losses) Deferred and to be Recognized in Future Years						(\$572,786)	(\$418,727)	(\$343,718)	\$34,744	\$0	\$0	



### Exhibit 3.5

#### Assets for Withdrawal Liability (January 1, 2015)

#### Non-Dedicated Asset Reconciliation (In Thousands)

Year	(1) Market Value of Assets beginning of year	(2) Contributions	(3) Benefit Payments	(4) Operating Expenses	(5) Other Transactions	(6) Cash Flow (2)-(3)- (4)+(5)	(7) Actual Investment Income	(8) Market Value of Assets End of Year (1)+(6)+(7)
2014	\$31,170,197	\$1,544,129	\$2,169,123	\$ 88,635	\$ 20,755	(\$692,874)	\$ 2,331,383	\$32,808,706
2013	27,575,124	1,431,091	2,079,846	87,541	169,439	(566,857)	4,161,930	31,170,197
2012	25,024,396	1,367,269	1,972,420	83,759	(5,047)	(693,957)	3,244,685	27,575,124
2011	24,252,606	1,322,549	1,893,208	83,757	141,717	(512,699)	1,284,489	25,024,396
2010	21,809,742	1,276,476	1,804,405	84,716	(131,516)	(744,166)	3,187,025	24,252,606

#### Development of the Actuarial Value of Assets (In Thousands)

Year	Actual Investment Rate of Return*	Actual Investment Return*	Expected Investment Return	Difference between Actual and Expected
2014	7.56%	\$ 2,331,383	\$ 2,157,663	\$ 173,720
2013	15.25%	4,161,930	1,904,668	2,257,262
2012	13.15%	3,244,685	1,727,419	1,517,265
2011	5.35%	1,284,489	1,679,738	(395,250)

Market Value of Non-Dedicated Assets on January 1, 2015	\$32,808,706
Subtract 80% of \$173,720 gain	(138,976)
Subtract 60% of \$2,257,262 gain	(1,354,357)
Subtract 40% of \$1,517,265 gain	(606,906)
Add Back 20% of \$395,250 loss	79,050
Actuarial Value of Non-Dedicated Assets on January 1, 2015	\$ 30,787,517
Preliminary Actuarial Value as a Percentage of Market Value	94%
Actuarial Value of Non-dedicated Assets (limited to 80%-120% of Market Value)	\$ 30,787,517
Actuarial Value of Dedicated Funds: FDA, 82/84AA, SBA (see Appendix C)	3,497,341
Actuarial Value of Assets on January 1, 2015	\$ 34,284,858

\* Based on market values.

### Exhibit 3.6

#### Net Cash Flow (In Thousands)

December 31,	Total Contributions	Operating Expenses	Benefit Payments	Net Cash Flow	Total Investment Income	Net Cash Flow + Investment Income
1995	719,932	44,130	981,766	(305,964)	3,364,703	3,058,739
1996	764,490	43,644	1,052,921	(332,075)	1,432,608	1,100,533
1997	800,461	43,259	1,109,959	(352,757)	3,211,930	2,859,173
1998	873,273	48,964	1,174,440	(350,131)	2,892,689	2,542,558
1999	912,445	50,024	1,230,062	(367,641)	1,776,796	1,409,155
2000	981,425	52,791	1,352,093	(423,459)	784,219	360,760
2001	1,008,409	54,737	1,437,374	(483,702)	893,971	410,269
2002	1,030,563	57,454	1,557,808	(584,699)	(550,761)	(1,135,460)
2003	1,068,717	59,761	1,649,918	(640,962)	3,741,095	3,100,133
2004	1,117,378	59,232	1,746,603	(688,457)	2,466,296	1,777,839
2005	1,199,154	64,061	1,838,524	(703,431)	1,679,009	975,578
2006	1,258,898	71,638	1,919,384	(732,124)	3,045,672	2,313,548
2007	1,320,358	73,833	1,996,396	(749,871)	1,677,254	927,383
2008	1,350,530	80,375	2,059,601	(789,446)	(6,570,632)	(7,360,078)
2009	1,264,683	87,502	2,154,335	(977,154)	2,683,399	1,706,245
2010	1,276,476	84,716	2,232,529	(1,040,769)	3,537,349	2,496,580
2011	1,322,549	83,757	2,305,404	(1,066,612)	1,792,951	726,339
2012	1,367,269	83,759	2,367,600	(1,084,090)	3,502,770	2,418,680
2013	1,431,091	87,541	2,458,053	(1,114,503)	3,974,410	2,859,907
2014	1,544,129	88,635	2,530,265	(1,074,771)	2,620,954	1,546,183
Cumulative as of 12/31/14	\$22,612,230	\$1,319,813	\$35,155,035	(\$13,862,618)	\$37,956,682	\$24,094,064

## SECTION 4

### Contribution Requirements and Amortization Period

In this section, we calculate the projected ERISA minimum Funding Standard Account and the maximum tax-deductible limit under the Internal Revenue Code. Under the law, an Enrolled Actuary must calculate costs using an approved actuarial cost method and actuarial assumptions which, in combination, are his best estimate of future Plan experience. We also determine the Plan's Amortization Period which provides the Trustees an additional indication of the Plan's ability to pay all benefits expected to be paid for by the Plan. Our actuarial cost method and assumptions are fully explained in Appendices C and D: the following discussion explains only the highlights of our cost method.

The actuarial present value of projected plan benefits is made up of liabilities for benefits being paid to current retirees and their beneficiaries and of liabilities that are projected to be paid to future retirees. The chart below illustrates the allocation of the actuarial present value of projected plan benefits among these categories of participants.

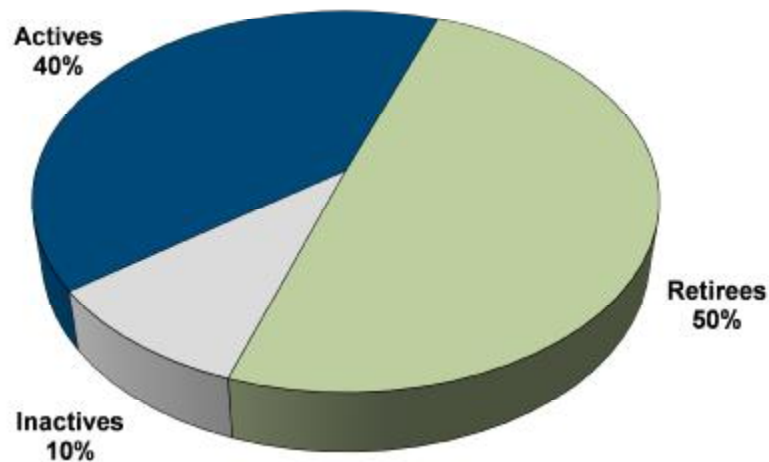


Exhibit 4.1 contains information on the actuarial balance sheet. Plan requirements consist of the actuarial present value of projected plan benefits on January 1, 2015. As illustrated above, 60% of the Plan's liabilities are for benefits to be paid to participants who are no longer contributing to the Plan. Plan resources consist of the actuarial value of assets and expected contributions to pay for projected future normal costs and expected future payments to eliminate the Plan's unfunded actuarial liability.

Exhibit 4.2 details the changes in the value of the Plan's unfunded actuarial liability from January 1, 2014 to January 1, 2015. Unfunded actuarial (accrued) liability changes during the year result from benefit accruals, contributions to the Plan, and actuarial gains and losses, which arise from actual experience different from expected. Changes to Plan provisions, actuarial assumptions, or the Plan's funding method can also impact the unfunded actuarial liability.

This year's normal cost is shown in Exhibit 4.3. The normal cost is the annual cost of benefits allocated to a plan year by the cost method and includes an allowance for operating expenses expected during the plan year.

### **ERISA Minimum Funding Requirements**

Exhibit 4.4 details the entries to the Plan's Funding Standard Account for the plan year ending December 31, 2014.

Exhibit 4.5 projects the Plan's Funding Standard Account through December 31, 2015 and provides detail on the amortization charges and credits. A positive credit balance is produced by cumulative contributions sufficient to pay normal costs and to amortize the unfunded actuarial liability faster than required.

Note that for each exhibit, we have assumed that the IRS will approve the request for change in funding method filed in December, 2012.

### **Maximum Deductible Contribution**

Exhibit 4.6 calculates the maximum deductible contribution for the 2015 plan year. The anticipated contributions are less than the maximum deductible contribution, and are therefore expected to be fully deductible.

### **Amortization Period**

Exhibit 4.7 displays the calculation of the period to amortize the Plan's unfunded actuarial liability using the actuarial value of assets and the market value of assets.

## Exhibit 4.1

### Actuarial Balance Sheet (January 1, 2015)

#### Requirements (In Thousands)

Present Value of Projected Benefits		
Retired Participants	\$	22,796,728
Vested Inactive Participants		4,494,421
Active Participants		
Retirement	\$	16,267,922
Vested Withdrawal		1,515,499
Death		307,340
Disability		508,095
		18,598,856
Total Present Value of Projected Benefits	\$	45,890,005

#### Resources (In Thousands)

Actuarial Value of Assets	\$	36,878,833
Present Value of Future Normal Costs		5,722,394
Unfunded Actuarial Liability		3,288,778
Total	\$	45,890,005

## Exhibit 4.2

### Analysis of Change in the Unfunded Actuarial Liability (January 1, 2015)

<b>Expected Unfunded Actuarial Liability on January 1, 2015</b>	<b>(In Thousands)</b>
Unfunded Actuarial Liability as of January 1, 2014	\$ 3,637,478
Normal Cost, Including Expenses	798,458
Interest on the above items	310,515
Contributions	(1,544,129)
Interest on Contributions	<u>(45,386)</u>
Expected Unfunded Actuarial Liability as of January 1, 2015	\$ 3,156,936
 <b>Changes</b>	
Assumption changes	\$ 272,629
Discount rate changes on dedicated funds	(93,240)
PEER Level changes	14,602
Increase in Contribution Rates	26,380
Demographic (Gain)/Loss	28,829
Asset (Gain)/Loss	<u>(117,358)</u>
Total	<u>131,842</u>
 <b>Unfunded Actuarial Liability on January 1, 2015</b>	 \$ 3,288,778

**Exhibit 4.3**  
**Normal Cost**  
**(January 1, 2015)**

<b>Unit Credit Normal Cost</b>	<b>(In Thousands)</b>	
Retirement	\$ 613,215	
Vested Withdrawal	22,961	
Death	94,801	
Disability	<u>11,452</u>	\$ 742,429
<b>New Entrant Adjustment</b>		13,234
<b>Expenses (\$97,000,000 Payable Mid-Year)</b>		<u>93,527</u>
<b>Total Normal Cost (Beginning of Year)</b>		\$ 849,190

## Exhibit 4.4

### Funding Standard Account (Year Ending December 31, 2014)

<b>Charges to Funding Standard Account</b>	<b>(In Thousands)</b>
Prior Year Fund Deficiency, if any	\$ 0
Normal Cost for Year	798,458
Amortization Charges	1,108,666
Interest on Fund Deficiency, Normal Cost, and Amortization Charges	133,499
Total Charges	\$ 2,040,623
<b>Credits to Funding Standard Account</b>	
Prior Year Credit Balance, if any	\$ 2,446,164
Employer Contributions	1,544,129
Amortization Credits	512,482
Interest on Credit Balance, Amortization Credits, and Contributions	252,491
Total Credits	\$ 4,755,266
<b>Balance</b>	
Projected Credit Balance, if any	\$ 2,714,643



## Exhibit 4.5

### Projected Funding Standard Account (Year Ending December 31, 2015)

<b>Charges to Funding Standard Account</b>	<b>(In Thousands)</b>
Prior Year Fund Deficiency, if any	\$ 0
Normal Cost for Year	849,190
Amortization Charges*	1,128,571
Interest on Fund Deficiency, Normal Cost, and Amortization Charges	138,443
Total Charges	\$ 2,116,204
<b>Credits to Funding Standard Account</b>	
Prior Year Credit Balance, if any	\$ 2,714,643
Expected Employer Contributions	1,500,000
Amortization Credits*	518,859
Interest on Credit Balance, Amortization Credits, and Contributions	269,878
Total Credits	\$ 5,003,380
<b>Balance</b>	
Projected Credit Balance, if any	\$ 2,887,176
<b>Minimum Required Contribution</b>	\$ -

\* See table on the following page for detail.

Amortization Bases (In Thousands)

The following table depicts the various entries used to establish the year-by-year charges and credits with respect to the Funding Standard Account.

(In Thousands)					
	Year Established	Original Balance	01/01/2015 Balance	Years Remaining	Amortization Payment
<b>Charges</b>					
Original Offset Base	2011	\$7,051,080	\$5,650,383	9.9	\$756,126
Assumption Changes	2012	\$129,823	\$113,215	12.0	\$13,321
PEER Changes	2012	\$12,996	\$11,332	12.0	\$1,333
Plan Change - Annuitized Extra Check	2012	\$17,668	\$15,408	12.0	\$1,813
2008 Net Investment Loss	2012	\$467,560	\$445,672	23.0	\$36,951
All Other Experience Loss	2012	\$650,006	\$566,849	12.0	\$66,699
Assumption Changes	2013	\$101,790	\$93,405	13.0	\$10,445
PEER Changes	2013	\$14,938	\$13,707	13.0	\$1,533
2008 Net Investment Loss	2013	\$875,912	\$847,246	23.0	\$70,245
Assumption Changes	2014	\$152,801	\$146,721	14.0	\$15,679
PEER Changes	2014	\$11,827	\$11,356	14.0	\$1,214
2008 Net Investment Loss	2014	\$1,635,968	\$1,607,847	23.0	\$133,307
PEER Changes	2015	\$14,602	\$14,602	15.0	\$1,498
Assumption Changes	2015	\$179,389	\$179,389	15.0	\$18,407
<i>Total Charges</i>		\$11,316,360	\$9,717,132		\$1,128,571
<b>Credits</b>					
Funding Method Credit	2012	\$2,355,538	\$1,807,437	7.0	\$313,435
Experience Gain	2013	\$434,151	\$398,388	13.0	\$44,549
Experience Gain	2014	\$1,505,654	\$1,445,737	14.0	\$154,498
Experience Gain	2015	\$62,149	\$62,149	15.0	\$6,377
<i>Total Credits</i>		\$4,357,492	\$3,713,711		\$518,859

## Exhibit 4.6

### Maximum Tax-Deductible Contribution (Plan Year Ending December 31, 2015)

1. <b>Ten Year Amortization Limitation: (IRC Section 404(a)(1)(A)(iii))</b>	(In Thousands)	
Normal Cost	\$ 849,190	
Amortization of Unfunded Actuarial Liability	437,615	
Interest	90,076	\$ 1,376,881
2. <b>Full Funding Limitation: (IRC Section 412(c)(7)(A)(i))</b>		
Actuarial Liability at Beginning of Year	\$ 40,167,611	
Unit Credit Normal Cost, including expenses, at Beginning of Year	849,190	
Test Value of Assets, at Beginning of Year	36,739,196	
Interest	299,432	\$ 4,577,037
3. <b>Unfunded Current Liability</b>		
90% of RPA Current Liability, at End of Year	\$ 58,459,087	
Actuarial Value of Assets Projected to End of Year	36,609,855	\$ 21,849,232
4. <b>Unfunded Current Liability Limitation: (IRC Section 404(a)(1)(D))</b>		
140% of Current Liability at Year End	\$ 90,936,357	
Actuarial Value of Assets at Year End	36,859,661	
Unfunded Current Liability		\$ 54,076,696
<b>5. Maximum Tax-Deductible Contribution Lesser of (1) or (2), but not less than (3) or (4)</b>		<b>\$ 54,076,696</b>

There are alternative calculations of the Maximum Deductible Contribution under IRC Section 404 that may produce a different amount than illustrated above. Please consult your tax advisors regarding the deductibility of cash contributions.

## Exhibit 4.6 (Continued)

The current liability defined under IRC Section 404(a)(1)(D) is developed in the following table. Current liability is determined using a 3.51% interest assumption and mortality as specified by the IRS. The 3.51% interest assumption is within the required corridor of the weighted average of 30-Year Treasury Bond Rates published by the IRS.

<b>Current Liability, Beginning of Year</b>	
Retirees	\$ 31,223,308
Vested Inactive Participants	8,401,999
Active Participants	<u>24,145,980</u>
Total	\$ 63,771,287
 <b>Changes Expected During 2015 Plan Year</b>	
Accrual of Benefits	\$ 1,546,157
Expected Benefit Payments	2,609,744
Interest	<u>2,246,841</u>
Total	\$ 1,183,254
<b>Current Liability, End of Year</b>	<b>\$ 64,954,541</b>

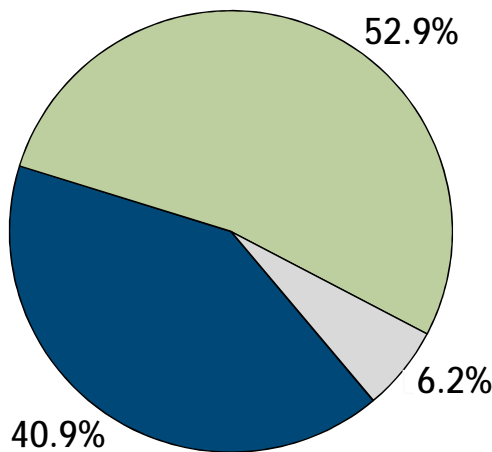
The amortization limitation required by IRC Section 404(a)(1)(A)(iii) is based on a 10-year level dollar amortization of the Unfunded Actuarial Liability of \$1,376,881.

### Exhibit 4.7 Amortization Period

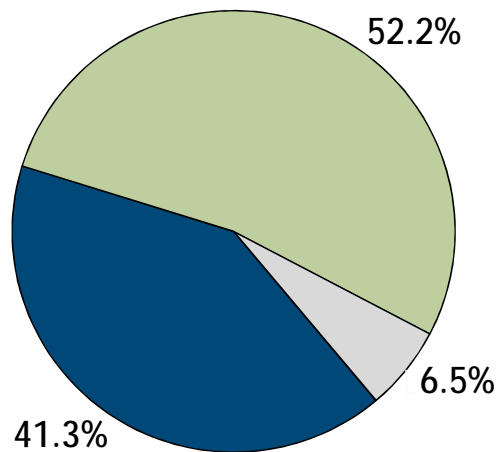
Exhibit 4.7 shows the amortization periods as of January 1, 2015 and January 1, 2014.

(In Thousands)		
	Unit Credit	
	January 1, 2014	January 1, 2015
a. Estimated Employer Contributions	\$1,401,000	\$1,500,000
b. Expenses	\$87,000	\$97,000
c. Normal Cost (payable monthly)	\$741,106	\$783,722
d. Estimated Employer Contribution to Amortize Unfunded Actuarial Liability (a.-b.-c.)	\$572,894	\$619,278
e. Unfunded Actuarial Liability	\$3,637,478	\$3,288,778
f. Amortization Period	8.3 years	6.7 years
g. Estimated Period to Amortize the Unfunded Actuarial Liability using Market Value of Assets	9.2 years	7.1 years

**2014 - \$1.401 Billion**



**2015 - \$1.500 Billion**



**UAL Amortization**
 **Normal Cost**
 **Expenses**

## **SECTION 5 Funded Status**

In this section, we provide the Plan's funded status by comparing the Fund's Market Value of Assets with the Actuarial Present Value of Accumulated Plan Benefits and the Plan's Present Value of Vested Benefits under FASB ASC Topic 960. As shown on Exhibit 5.1, the Market Value of the Plan's Assets is less than the Present Value of Accumulated Plan Benefits as of December 31, 2014. Exhibit 5.2 shows the change in the Present Value of Accumulated Plan Benefits from December 31, 2013 to December 31, 2014.

Exhibit 5.3 shows the Plan's Unfunded Vested Benefits Liability for purposes of determining withdrawal liability. As of December 31, 2014, the Assets for Withdrawal Liability are less than the Present Value of Vested Benefits. This determination will impact withdrawal liability calculations for employers withdrawing from the Plan during the 2015 plan year.

## Exhibit 5.1

### Statement of Actuarial Present Value of Accumulated Plan Benefits (In Thousands)

	FASB ASC Topic 960	
	December 31, 2013	December 31, 2014
<b>Vested Benefits</b>		
Retirees & Beneficiaries	\$ 22,103,238	\$ 22,789,078
Vested Inactive Participants	4,422,913	4,494,421
Active Participants	10,754,230	11,053,869
Total	\$ 37,280,381	\$ 38,337,368
<b>Non-Vested Benefits</b>		
Active and Other Non-Vested Benefits	1,835,647	1,830,243
Total	\$ 1,835,647	\$ 1,830,243
<b>Actuarial Present Value of Accumulated Plan Benefits</b>	\$ 39,116,028	\$ 40,167,611
<b>Assets</b>		
Market Value of Assets (MV)	\$ 35,193,014	\$ 36,739,196
Actuarial Value of Assets (AV)	\$ 35,478,550	\$ 36,878,833
<b>Funding Ratios</b>		
Ratio of MV to Present Value of Vested Benefits	94.4%	95.8%
Ratio of MV to Present Value of Accumulated Plan Benefits	90.0%	91.5%
<b>PPA Funding Ratio</b>		
Ratio of AV to Present Value of Accumulated Plan Benefits	90.7%	91.8%

## Exhibit 5.2

### Statement of Changes in Actuarial Present Value of Accumulated Plan Benefits (In Thousands)

<b>Value as of December 31, 2013</b>	<b>\$39,116,028</b>
Changes	
Benefits Accumulated	714,573
Actuarial (Gain)/Loss	49,852
Plan Amendments	14,602
Interest	2,623,432
Benefit Payments	(2,530,265)
Assumption Changes	<u>179,389</u>
<b>Net Change</b>	<b>\$1,051,583</b>
 <b>Value as of December 31, 2014</b>	 <b>\$40,167,611</b>



### Exhibit 5.3

#### Unfunded Vested Benefit Liability (In Thousands)

	<u>As of December 31, 2013</u>	<u>As of December 31, 2014</u>
<b>Actuarial Present Value of Vested Benefits</b>		
Active Participants	\$ 10,754,230	\$11,053,869
Vested Inactive Participants	4,422,913	4,494,421
Retirees & Beneficiaries	<u>22,103,238</u>	<u>22,789,078</u>
Total	\$ 37,280,381	\$38,337,368
<b>UVBL Asset Value*</b>	<u>32,019,915</u>	<u>34,284,858</u>
<b>Unfunded Vested Benefit Liability</b>	\$ 5,260,466	\$ 4,052,510
<b>Excess of the Actuarial Value of Assets over the Vested Benefit Liability</b>	NA	NA
<b>Percentage Funded</b>	85.9%	89.4%

\*The UVBL Asset Values were determined without regard to the Pension Relief Act election previously mentioned – i.e., for this calculation, five-year smoothing was used for all market value gains and losses.

## SECTION 6 History and Projections

**Exhibit 6.1** shows five years of the more important Plan statistics.

§ **Investment Return.** Investment return often represents the largest source of actuarial gain or loss.

§ **Participant Statistics.** Changes, if any, in the active and inactive participants' characteristics over time can cause significant changes in costs.

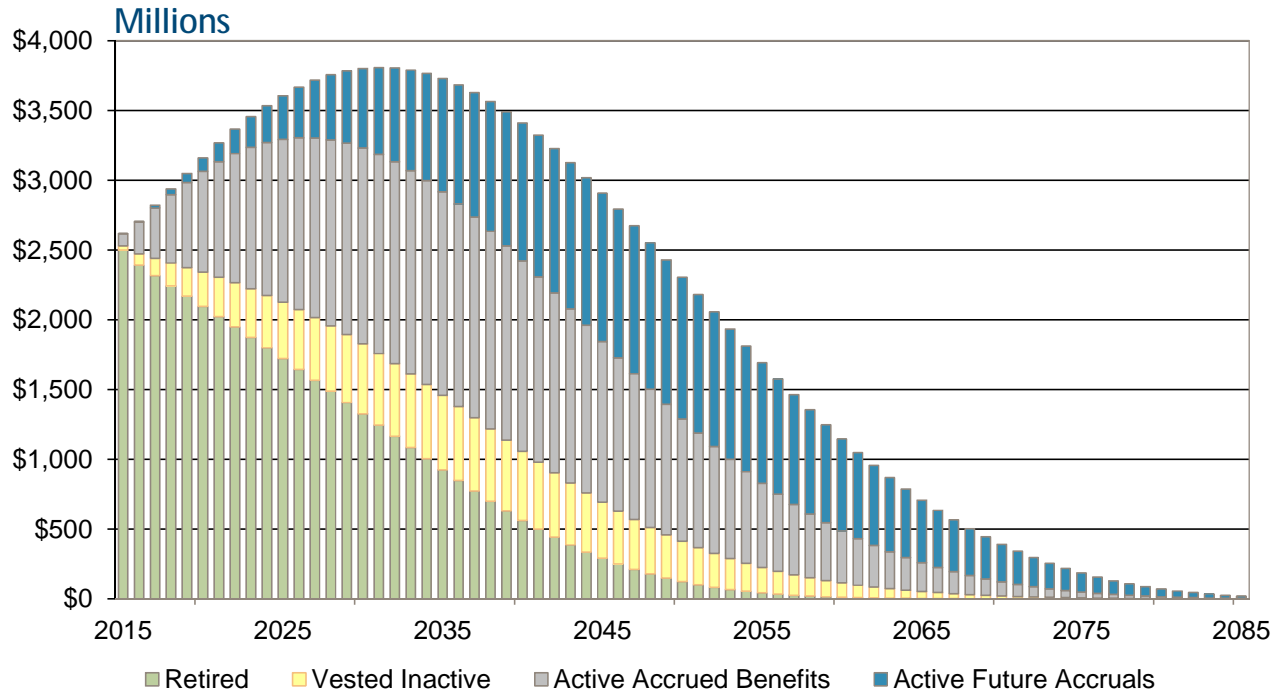
**Exhibit 6.2** provides a projection of benefit payments. This can be useful for the investment manager in planning future liquidity requirements.

## Exhibit 6.1

### Historical Statistics (Dollars in Thousands)

	<u>January 1, 2011</u>	<u>January 1, 2012</u>	<u>January 1, 2013</u>	<u>January 1, 2014</u>	<u>January 1, 2015</u>
<b><u>Actuarial Present Value of Accumulated Plan Benefits</u></b>					
Vested Benefits					
Retirees	\$ 19,747,735	\$20,386,683	\$ 20,973,585	\$ 22,103,238	\$ 22,789,078
Inactives	4,194,021	4,247,074	4,464,195	4,422,913	4,494,421
Actives	<u>9,887,354</u>	<u>10,359,810</u>	<u>10,671,106</u>	<u>10,754,230</u>	<u>11,053,869</u>
Total	\$ 33,829,110	\$ 34,993,567	\$ 36,108,886	\$ 37,280,381	\$ 38,337,368
Non-Vested Benefits	\$ 4,121,168	\$ 1,853,770	\$ 1,756,561	\$ 1,835,647	\$ 1,830,243
Accumulated Plan Benefits	\$ 37,950,278	\$ 36,847,337	\$ 37,865,447	\$ 39,116,028	\$ 40,167,611
<b><u>Assets</u></b>					
Market Value of Fund	\$ 29,164,847	\$ 29,891,186	\$ 32,309,867	\$ 35,193,014	\$ 36,739,196
Market Value Return in Prior Year	13.53%	6.26 %	11.93%	12.59%	7.56%
Actuarial Value for Funding	\$ 32,880,990	\$ 33,310,140	\$ 34,132,485	\$ 35,478,550	\$ 36,878,833
<b><u>Participant Statistics</u></b>					
Retired Participants and Beneficiaries					
Number of Retirees and Beneficiaries	206,645	210,123	213,780	217,924	221,502
Total Annual Benefits	\$ 2,232,529	\$ 2,305,404	\$ 2,367,600	\$ 2,458,053	\$ 2,530,265
Active Participants					
Number of Participants	201,740	197,900	194,080	195,620	197,120
Average Age	42.9	43.4	43.6	43.7	43.4
Average Credited Service	11.8	12.1	12.3	12.4	12.3
Vested Inactive Participants					
Number of Participants	168,240	168,080	169,020	167,940	166,440
<b><u>Actuarial Assumptions</u></b>					
Interest Assumption	7.00%	7.00%	7.00%	7.00%	7.00%
Expected Contributions	1,270,000	1,320,000	1,375,000	1,401,000	1,500,000
Actual Contributions	\$ 1,322,549	\$ 1,367,269	\$ 1,431,091	\$ 1,544,129	TBD

## Exhibit 6.2 Projected Benefit Payouts



### Detail of Total Projected Payments for Next 20 Years (In Thousands)

<u>Plan Year</u>	<u>Estimated Payout of Retirement Benefits</u>	<u>Plan Year</u>	<u>Estimated Payout of Retirement Benefits</u>
2015	\$2,619,683	2025	\$3,607,134
2016	2,708,274	2026	3,667,968
2017	2,822,392	2027	3,717,244
2018	2,937,704	2028	3,755,741
2019	3,049,107	2029	3,784,158
2020	3,162,318	2030	3,801,303
2021	3,268,037	2031	3,807,288
2022	3,366,324	2032	3,804,604
2023	3,455,428	2033	3,790,528
2024	3,535,156	2034	3,765,329

# Appendix A

## Summary of the Plan

**1. Active Participation**

Non-Seasonal employees for whom contributions are required to be made to the Trust under the terms of a pension agreement become “Active Participants” on the day on which they first accumulate 750 covered hours in the current and immediately preceding calendar years. Seasonal employees become “Active Participants” if they satisfy one-half of the covered hour requirement of Non-Seasonal employees.

**2. Monthly Pension at Normal Retirement**

The monthly pension earned for service prior to 1987 is determined based on the 1986 Plan provisions as outlined in the January 1, 1986 Actuarial Report. The final five-year average contribution rate used for this determination recognizes contribution rates applicable to all 500 hour years through 1991.

For service after 1986, monthly pension benefits are earned as follows:

Calendar Year	Contribution Percentage	
	First 20 Years	After 20 Years
1987-1991	2.00%	2.65%
1992-1996	2.30%	3.05%
1997-1999	2.46%	3.26%
2000-2002	2.70%	3.58%
1/2003-6/2003	2.20%	2.92%
7/2003-2006	1.20%	1.20%
2007	1.65%	1.65%
2008	2.00%	2.65%
2009+	1.20%	1.20%

**3. Past Service Credits**

A participant is granted credit for the number of years and months of specified types of unbroken employment rendered prior to his or her first covered hour, subject to limits specified in the Plan.

**4. Vesting Service**

A Plan member earns a vesting service year for each year after 1975 during which he or she is credited with at least 500 covered hours (250 covered hours for Seasonal Plan members). For service before 1976, a Plan member is credited with a vesting service year for each year of continuous coverage under the Plan.

**5. Normal Retirement Age**

A participant reaches Normal Retirement Age upon the later of age 65 or an Active participant’s age on the second anniversary of his or her first covered hour.

**6. Normal Pension Form**

The normal form of pension for unmarried participants is a Life Only Pension. In general, married participants who do not elect otherwise receive a reduced Employee and Spouse Pension. This reduced amount is an “actuarial equivalent” of the Life Only Pension. Participants who retired under the Employee and Spouse Pension Option will have their pension restored to the amount payable under the Normal Form if the spouse dies first. In the event that the participant dies first, the amount of spouse pension is 66 2/3% of the retiree’s pension for those who retired after 1991 with recent coverage; otherwise the amount of spouse pension is 50% of the retiree’s pension. In both instances, the actuarial reduction factor for the Employee and Spouse Pension amount is calculated as though the spouse pension benefit would be 50% of the reduced Employee and Spouse Pension.

**7. Other Pension Forms**

An Optional Employee and Spouse Pension providing a 75% spouse pension is available. Participants retiring under age 65 may elect a Benefit Adjustment Option with or without the regular or Optional Employee and Spouse Pension.

**8. Early Retirement Eligibility Date**

In general, this date is the first day of the month coincident with or immediately following the later of the participant’s 55<sup>th</sup> birthday or the date the individual becomes a vested participant. However, a participant with recent coverage may retire at any age if he or she meets the Rule of 84 (or Rule of 82 or Rule of 80) under the Program for Enhanced Early Retirement (PEER program); that is, the sum of his or her attained age plus years of contributory service is equal to or greater than 84 (or 82 or 80).

**9. Monthly Pension at Early Retirement for a Participant with Recent Coverage**

If a participant meets the Rule of 84 and has recent coverage, the monthly pension benefit is reduced by the sum of 0.45% for each of the first 60 months that the early retirement date precedes his or her 62<sup>nd</sup> birthday plus 0.33% for each month that the early retirement date precedes his or her 57<sup>th</sup> birthday.

If a participant has recent coverage but does not meet the Rule of 84, his or her monthly pension benefit is reduced by the sum of 0.60% for each of the first 60 months that the early retirement date precedes his or her 62<sup>nd</sup> birthday plus 0.40% for each month that the early retirement date precedes his or her 57<sup>th</sup> birthday.

**10. Monthly Pension at Early Retirement for a Participant with Current PEER Coverage**

If a participant meets the Rule of 84 (or Rule of 82 or Rule of 80), is a member of a bargaining unit which has negotiated PEER 84 (or PEER 82 or PEER 80) contribution surcharges, and has current PEER coverage, the early retirement benefit equals 100% of the earned pension benefits. A participant has current PEER coverage at his or her retirement effective date if the applicable PEER contributions have been paid for at least 1,000 covered hours in the 24-month period immediately preceding his or her retirement effective date.

**Note:** If a participant is in a category of early retirement where benefits are subsidized (as described in paragraph 1 of Item 9 or in Item 10) and accumulates 25 years of service under the Plan while so covered, then his or her subsidized early retirement benefits are “locked-in” and cannot be forfeited.

**11. Disability Benefit**

Upon a vested participant's total and permanent disability before age 65, the monthly benefit is the greater of (a) 85% of the earned monthly pension benefit or (b) the early retirement pension otherwise payable, provided the vested participant has met the specified recent coverage requirement on the disability onset date.

**12. Vested Benefit Upon Termination of Employment**

Upon termination of employment, a participant is vested in his or her accrued pension, based on past and future service credits, if he or she has completed at least 5 years of vesting service, one of which was completed during or after 1991.

A terminated vested participant may elect early commencement of the earned retirement benefit at any time on or after the Early Retirement Eligibility Date. If the participant does not have recent coverage and has not "locked-in" rights to unreduced pension benefits by having completed 25 years of Plan service before termination, the benefit is reduced by the sum of 0.60% per month for each of the first 60 months that the early retirement date precedes the participant's 65<sup>th</sup> birthday plus 0.40% per month for each month that such early retirement date precedes the participant's 60<sup>th</sup> birthday.

Vested participants who are not covered by the current Plan provisions may be subject to additional limitations on their benefits.

**13. Extra Check**

An annual "Extra Check" is payable to: (i.) pre-1985 retirees in the amount of \$540 and to (ii.) their eligible survivors in the amount of \$450.

**14. Death Benefits**

Upon the death of a participant or pensioner who has met the specified recent coverage requirement, a temporary monthly pension is payable to the surviving children under conditions specified in the Plan.

A pre-retirement benefit to the surviving spouse is payable upon the death of a vested participant. If a married participant had recent coverage at the time of death, the spouse receives an immediate benefit based on the participant's earned benefit. The earned benefit is reduced to reflect early retirement, as specified in the Plan, and the appropriate Employee and Spouse Pension factor. 66 2/3% of the resulting amount is then payable immediately to the spouse. If the participant does not have recent coverage, the benefit is calculated as described above, but a 50% factor is applied in lieu of the 66 2/3% factor, and, if the participant was not eligible to retire on the date of death, commencement of the pension is deferred until the time the participant would have been first eligible to retire.

A single sum death benefit equal to 50% of contributions, subject to a maximum of \$10,000, is payable upon the death of an Active or Terminated participant who has completed at least 5 years of vesting service. In addition, for unmarried vested participants who satisfy the recent coverage requirements and would otherwise be eligible to retire, a death benefit of 48 times the participant's accrued pension, reduced to reflect early retirement as specified in the Plan, is payable as a lump sum amount.



Upon the death of a pensioner with a retirement date before January 1, 1992, a single sum benefit of 12 times the monthly normal form pension (Life Only annuity), subject to a maximum of \$10,000 is payable. Beginning with retirements in 1992, beneficiaries of retirees with recent coverage who elect a Life Only or Benefit Adjustment Option (without the Spouse Pension) receive a 4-Year Certain death benefit payment equal to 48 times the pensioner's Life Only benefit minus the total monthly payments already received by the pensioner.

If a pensioner retires after January 1, 1992, he or she may elect an Optional Lump Sum Death Benefit equal to 12 times the monthly normal form pension (Life Only annuity). The Optional Lump Sum Death Benefit is paid for by reducing the pensioner's monthly payment.

**15. Transition Provisions**

Certain minimum benefits are provided to participants who were covered by prior versions of the Plan.

## PLAN AMENDMENT HISTORY

The following is a summary of the major Plan changes since 1984.

Effective Date	Description of Change
1/1/2011	Annual “Extra Checks” to pre-1985 retirees and their eligible survivors were made a permanent part of the Plan.
1/1/2009	A 75% Optional Employee and Spouse Pension was added. Also, a \$40 million reserve for extra check payments was established.
1/1/2008	Effective for calendar year 2008 only, the percentages used to calculate Plan participant account benefits have been increased from 1.20% to 2.00% for participants who have not completed 20 years of service, and from 1.20% to 2.65% for participants who have completed at least 20 years of service. The percentages for years 2009 and later remain at 1.20%.
1/1/2007	Effective for calendar year 2007 only, the percentage used to calculate Plan participant account benefits was increased from 1.20% to 1.65%. The percentages for years 2008 and later remain at 1.20%.
7/1/2003	Effective July 1, 2003, the percentage used to calculate Plan participant account benefits has been reduced to 1.20% for the second half of 2003 and all subsequent years.
1/1/2000	<p>Effective for calendar years 2000, 2001 and 2002, the percentage used to calculate Plan participant account benefits has been increased. An Active participant will earn a monthly pension benefit of 2.70% instead of 2.16% for contributions credited in this period if he/she has not completed 20 year of service. If such participant has completed at least 20 years of contributory service, he/she will earn a monthly pension benefit of 3.58% instead of 2.86% during this same period.</p> <p>Effective for calendar years 2003, 2004 and 2005, the percentage used to calculate Plan participant contribution account benefits has been increased. An Active participant will earn a monthly pension benefit of 2.20% instead of 2.00% for contributions credited in this period, if he/she has not completed 20 years of service. If such participant has completed at least 20 years of contributory service, he/she will earn a monthly pension benefit of 2.92% instead of 2.65% during this same period.</p> <p>Effective with calendar year 2000, all Disability Pensioner benefits have been increased to 85% of his/her Normal Retirement Benefit unless said Disability Pensioner’s benefits are already payable in a greater amount. Spouses of certain deceased Disability Pensioners have had their benefits appropriately adjusted, as applicable. The same 85% “floor” monthly pension benefit shall be paid to all Disability Pensioners and, as applicable, to their spouses for Plan participants who become Disabled Pensioners after calendar year 1999.</p>

## PLAN AMENDMENT HISTORY

Effective Date	Description of Change
1/1/2000 (Continued)	<p>Effective with calendar year 2000, the maximum Child Survivor Benefits have been increased to \$1,000 and such increased benefits shall be payable, in general, upon the death of a person who was an Active Participant on 1/1/1987 or thereafter and who otherwise satisfied the applicable recency of employment requirements at the time of death.</p> <p>Effective with calendar year 2000, PEER eligible participants with 25 years of contributory service “lock-in” PEER coverage by working at least 1,000 covered hours during any consecutive 24 month period that ends on or after completion of 25 years of contributory service.</p>
1/1/1999	<p>Effective with retirements in calendar year 1999, a vested participant who has not suffered a forfeiture of service after 1975 may qualify to have pre-1976 forfeited contributory service credit restored.</p>
1/1/1998	<p>Effective for calendar years 1997, 1998 and 1999, the percentage used to calculate Plan participant contribution account benefits has been increased. An Active participant will earn a monthly pension benefit of 2.46% instead of 2.00% for contributions credited in this period if he/she has not completed 20 years of service. If a participant has completed at least 20 years of contributory service, he/she will earn a monthly pension benefit of 3.26% instead of 2.65% during this same period.</p> <p>Effective for calendar years 2000, 2001 and 2002, the percentage used to calculate Plan participant contribution account benefits has been increased. An Active participant will earn a monthly pension benefit of 2.16% instead of 2.00% for contributions credited in this period, if he/she has not completed 20 years of service. If a participant has completed at least 20 years of contributory service, he/she will earn a monthly pension benefit of 2.86% instead of 2.65% of contributions during this same period.</p>
1/1/1994	<p>Effective for calendar years 1994, 1995 and 1996, the percentage used to calculate Plan participant contribution account benefits has been increased. An Active participant will earn a monthly pension benefit of 2.3% instead of 2.00% for contributions credited in 1992 through 1996, inclusive, if he/she has not completed 20 years of contributory service. If a participant has completed at least 20 years of such service, he/she will earn a monthly pension benefit of 3.05% instead of 2.65% during this same period.</p> <p>The “Rule of 85” early retirement test was lowered to a “Rule of 84” test for both the PEER program supported by 6.5% surcharge contributions and regular enhanced early retirement features.</p>

## PLAN AMENDMENT HISTORY

Effective Date	Description of Change
<p>1/1/1994 (Continued)</p>	<p>The Program for Enhanced Early Retirement (PEER) was expanded to allow participants who meet the Rule of 82 (or Rule of 80) to retire with no early retirement reduction. To qualify, a participant must have current PEER coverage and must retire from a bargaining unit that has negotiated 11.5% PEER 82 surcharge contributions, effective on or after 8/1/1993, or 16.5% PEER 80 surcharge contributions, effective on or after 8/1/1994.</p> <p>The Plan's recent coverage provisions were liberalized to provide protection to participants with at least 25 years of contributory service. Participants who satisfy the latter condition and who leave covered employment under age 55 now have access to the Plan's enhanced early retirement, death and survivor benefits.</p> <p>The Plan's minimum disability pension has been increased from 55% to 62%.</p>
<p>1/1/1992</p>	<p>A Plan participant is vested in his or her accrued pension if he/she has completed at least 5 years of vesting service, one of which was earned in 1991 or later. Prior to this date, a participant became vested upon completion of 10 years of vesting service.</p> <p>Effective for calendar years 1992 and 1993, Plan participants will receive a 15% increase in the percentage used to calculate his/her Contribution Account Benefit. A participant will earn a monthly pension benefit of 2.3% instead of 2.00% for contributions credited in 1992 and 1993 if he/she has not completed 20 years of service. If a participant has completed at least 20 years of contributory service, he/she will earn a monthly pension benefit of 3.05% instead of 2.65%.</p> <p>Pre-Retirement Death Benefits were modified as follows:</p> <ul style="list-style-type: none"> <li>• The temporary spouse survivor benefit is eliminated;</li> <li>• For married vested participants who die with recent coverage, a 66-2/3% Spouse Lifetime Pension is payable immediately; and</li> <li>• For non-married vested participants who die with recent coverage, a single sum death benefit is payable to their designated beneficiaries. The lump sum amount equals 48 times the participant's monthly accrued benefit.</li> </ul>

**PLAN AMENDMENT HISTORY**

Effective Date	Description of Change
<p>1/1/1992 (Continued)</p>	<p>Post-Retirement Death Benefits were revised as follows:</p> <ul style="list-style-type: none"> <li>• For participants who retire with recent coverage, the After Retirement Spouse Lifetime Pension is increased from 50% to 66-2/3%. If a participant retires without recent coverage, the After Retirement Spouse Lifetime Pension remains at 50%.</li> <li>• Non-married vested participants or married vested participants who did not elect the Employee and Spouse Pension, who retired with recent coverage and die before receiving 4 years of benefit payments will have the remainder of 4 years benefits paid to their designated beneficiary.</li> </ul> <p>Enhanced early retirement benefits became available for participants with recent coverage if the sum of their attained age and years of contributory service is equal to or greater than 85 (the "Rule of 85"). Reduction for early retirement under this provision is cut by approximately 25%.</p> <p>The Program for Enhanced Early Retirement (PEER) also became available. Under this program, participants who meet the Rule of 85, who retire from a bargaining unit that has negotiated 6.5% surcharge PEER contributions, and who have current PEER coverage can retire with no early retirement reduction, regardless of their age.</p> <p>There is a 9 month period (4/1/1991 to 12/31/1991) where members with pension effective dates or application requests (and recent coverage) within this time frame were permitted to rescind their 1991 pension effective dates and defer them until 1/1/1992 in order to benefit from Plan improvements effective on that date. Members electing to rescind and defer their pension effective dates were required to repay any benefit amounts paid to them. Also, pension increases effective after 1991 are governed by the new death and survivor benefit rules.</p>
<p>7/1/1988</p>	<p>The Plan was modified to provide an additional optional pension form: The Employee and Spouse Pension with Benefit Adjustment Option.</p>

**PLAN AMENDMENT HISTORY**

Effective Date	Description of Change
1/1/1987	<p>Two formulas were used to compute a participant's retirement benefit: An improved version of the Plan's pre-1987 5-Year Average Benefit formula (used to determine the retirement benefit for service before January 1, 1987 and applicable only if a participant first became covered by the Plan before 1987) and the Contribution Account Benefit (used to determine the retirement benefit for a participant's contributory service under the Plan after 1986). Note, participants that are active in the Plan both before and after January 1, 1987 had their retirement benefit based on the sum of their 5-Year Average Benefit <u>and</u> their Contribution Account Benefit. Also, participants who first became covered by the Plan after 1986 might have qualified for a Non-contributory Service benefit based on any past employment either before or after January 1, 1987.</p> <ul style="list-style-type: none"> <li>• 5-Year Average Benefit: A participant's monthly retirement benefit was based on his/her total prior Plan past and future service credits earned as of 12/31/1986 multiplied by his/her 5-year average rate benefit factor. The maximum prior Plan credits were increased from 30 credits to 33-1/3 credits. Also, when determining a participant's 5-year average contribution rate, the formula recognized employer contributions after 1986 up to the end of 1991 (or participant's retirement date, if earlier).</li> <li>• Contribution Account Benefit: A participant's monthly retirement benefit is based on a percentage of the total Employer Contributions made on his/her behalf for contributory service after 1986. The percentage that applies is: <ul style="list-style-type: none"> <li>2% of all the employer contributions made for a participant's covered employment (after 1986) during the first 20 calendar years of service</li> <li style="text-align: center;">PLUS</li> <li>2.65% of all the employer contributions made for a participant's covered employment (after 1986) that comes after the end of his/her 20<sup>th</sup> calendar year of service.</li> </ul> </li> </ul>

## PLAN AMENDMENT HISTORY

Effective Date	Description of Change
1/1/1987 (Continued)	<ul style="list-style-type: none"> <li>Non-contributory Service Benefit: If a participant first started working in covered employment after 1986, the value of this benefit is based on 2% of the participant's average annual contribution in his/her first five 500 covered hour years multiplied by the participant's years of non-contributory service (to a maximum of 10).</li> </ul>
1/1/1985	A 25% increase in retirement and survivor benefits calculated under the Plan's 5-year average contribution rate benefit schedule was adopted. To be eligible, a participant must have had a pension effective date on or after January 1, 1985 and have earned 250 or more covered hours in a single calendar year beginning on or after January 1, 1983.
8/1/1984	<p>Pre-retirement spouse benefits were extended to the surviving spouses of all vested participants who die before the effective date of their retirement benefit. Under the old rules, a pre-retirement spouse benefit was only payable if the vested participant attained age 55 and was in active service under the Plan for at least one calendar month ending after his 55<sup>th</sup> birthday.</p> <p>The rule requiring reduction of the spouse survivor benefit by the amount of any pre-retirement spouse benefit was eliminated.</p>

# Appendix B

## Participant Statistics



The sources of WCT Plan participant data for our actuarial calculations are: (a) extracts from Prudential Investments' Annuitant Benefit Consolidation (ABC) System file, (b) extracts from the T2 Participant Data File (PDF) maintained by Northwest Administrators and Prudential Investments, and (c) extracts from the Western States Food data base.

The following paragraphs describe how the data were prepared for valuation purposes and present statistical characteristics of the data base.

#### **1. Data Base for Active and Vested Inactive Participants**

Northwest Administrators sent us a December 31, 2014 valuation data file that included T2 extract records for all vested participants, a 5% sub-file of non-vested participants (Social Security numbers ending in 00, 05, 10, 15, or 20), and all claims and deaths for the last five years.

From this file containing 390,593 records, we selected the 5% sample valuation file for all active participants, (both vested and non vested), and for all vested inactive participants. A participant was considered Active as of January 1, 2015 if he or she was not included on the ABC file as retired as of the valuation date, and if he/she earned at least 250 covered hours during 2014, or earned at least 1 covered hour in 2014 and at least 250 covered hours in 2013.

9,331 Non-Seasonal Active 5% sample records representing 186,620 participants were included in the valuation. For this purpose, Active participant records with non-seasonal industry codes or with 1,000 or more covered hours in each of the last two years were considered Non-Seasonal.

525 Seasonal Active 5% sample records representing 10,500 participants were included in the valuation. Active participants with a seasonal industry code and less than 1,000 covered hours in one or both of the last two years were considered Seasonal.

8,322 Vested Inactive 5% sample records representing 166,440 participants were included in the valuation.

372,415 T2 extract records were not used for the valuation. These records primarily represent non-5% sample participant records, pre-valuation date claims, and non-vested inactives.

## 2. Statistical Information

Highlights of the data characteristics for Active Plan participants on January 1, 2015 are shown below, together with corresponding information from the January 1, 2014 and January 1, 2013 Actuarial Reports.

- For actuarial valuation purposes, the Active participant population was 194,080 as of January 1, 2013, 195,620 as of January 1, 2014, and 197,120 as of January 1, 2015. The aggregate proportion of Active participants covered under PEER is 84.9% (including Non-Seasonal and Seasonal employees) on January 1, 2015. All information summarized below was based on 5% sample data.

<b>NUMBER OF ACTIVE PLAN PARTICIPANTS</b>			
<b>Industry</b>	<b>As of 1/1/2013</b>	<b>As of 1/1/2014</b>	<b>As of 1/1/2015</b>
<b>All Actives</b>			
Non-Seasonal	181,720	184,040	186,620
Seasonal	12,360	11,580	10,500
<b>Total</b>	<b>194,080</b>	<b>195,620</b>	<b>197,120</b>
<b>PEER Units</b>			
Non-Seasonal PEER 80	58,020	58,020	59,740
Non-Seasonal PEER 82	5,100	4,980	4,920
Non-Seasonal PEER 84	90,620	91,760	92,920
Seasonal PEER 80	8,280	7,740	7,580
Seasonal PEER 82	440	460	400
Seasonal PEER 84	2,580	2,420	1,880
<b>Total PEER Participants</b>	<b>165,040</b>	<b>165,380</b>	<b>167,440</b>
<b>Non-PEER Units</b>			
Non-Seasonal	27,980	29,280	29,040
Seasonal	1,060	960	640
<b>Total Non-PEER Participants</b>	<b>29,040</b>	<b>30,240</b>	<b>29,680</b>

- The average attained age of Active Plan participants included in the valuation is 43.2 years for Non-Seasonal participants and 47.5 years for Seasonal participants. The corresponding ages as of January 1, 2014 were 43.4 years for Non-Seasonal employees and 48.2 years for Seasonal employees. The average attained ages for all Active participants for the last three years, including the separate PEER units, are summarized below.

<b>AVERAGE ATTAINED AGES FOR ACTIVE PLAN PARTICIPANTS</b>			
Industry	As of 1/1/2013	As of 1/1/2014	As of 1/1/2015
<b>All Actives</b>			
Non-Seasonal	43.3	43.4	43.2
Seasonal	47.4	48.2	47.5
<b>PEER Units</b>			
Non-Seasonal PEER 80	44.9	44.9	44.7
Non-Seasonal PEER 82	45.4	45.4	45.1
Non-Seasonal PEER 84	41.1	41.3	41.3
Seasonal PEER 80	49.2	49.9	49.0
Seasonal PEER 82	43.3	44.2	46.3
Seasonal PEER 84	44.4	44.7	43.7
<b>Non-PEER Units</b>			
Non-Seasonal	46.4	46.6	46.0
Seasonal	42.9	46.0	42.4

- The average number of years of contributory service for Active Plan participants is 12.3 years for Non-Seasonal participants and 12.0 years for Seasonal participants. As of January 1, 2014 the corresponding average number of years of contributory service was 12.4 years for Non-Seasonal employees and 11.9 years for Seasonal employees. The average number of years of contributory service for Active participants during the last three years is compared below.

<b>AVERAGE CONTRIBUTORY SERVICE YEARS FOR ACTIVE PLAN PARTICIPANTS</b>			
<b>Industry</b>	<b>As of 1/1/2013</b>	<b>As of 1/1/2014</b>	<b>As of 1/1/2015</b>
<b>All Actives</b>			
Non-Seasonal	12.4	12.4	12.3
Seasonal	11.5	11.9	12.0
<b>PEER Units</b>			
Non-Seasonal PEER 80	16.5	16.5	16.2
Non-Seasonal PEER 82	13.1	13.3	13.4
Non-Seasonal PEER 84	10.9	11.1	11.1
Seasonal PEER 80	13.6	14.1	13.9
Seasonal PEER 82	7.6	8.0	8.2
Seasonal PEER 84	7.0	6.6	7.1
<b>Non-PEER Units</b>			
Non-Seasonal	8.4	8.4	8.0
Seasonal	8.2	9.7	5.8

- The end of year average basic hourly contribution rate for Non-Seasonal Actives included in the valuation was \$3.91 as of December 31, 2013 and \$4.05 as of December 31, 2014. The average basic hourly contribution rate for Seasonal Actives included in this valuation was \$0.95 as of December 31, 2013 and \$1.00 as of December 31, 2014. This information is displayed for Active participants, including separate data for PEER units, in the following table.

<b>AVERAGE BASIC HOURLY CONTRIBUTIONS FOR ACTIVE PLAN PARTICIPANTS</b>			
<b>Industry</b>	As of 12/31/2012	As of 12/31/2013	As of 12/31/2014
<b>All Actives</b>			
Non-Seasonal	\$3.83	\$3.91	\$4.05
Seasonal	\$0.90	\$0.95	\$1.00
<b>PEER Units</b>			
Non-Seasonal PEER 80	\$5.11	\$5.20	\$5.43
Non-Seasonal PEER 82	\$3.76	\$4.01	\$4.13
Non-Seasonal PEER 84	\$3.78	\$3.90	\$3.99
Seasonal PEER 80	\$1.10	\$1.17	\$1.22
Seasonal PEER 82	\$0.11	\$0.11	\$0.11
Seasonal PEER 84	\$0.33	\$0.31	\$0.27
<b>Non-PEER Units</b>			
Non-Seasonal	\$1.37	\$1.39	\$1.43
Seasonal	\$1.09	\$1.13	\$1.11

- Based on the data for continuing non-seasonal Active participants in the sample who worked 500 or more hours in each of the last two years, the Plan's hourly contribution rates for "continuing" Non-Seasonal employees increased an average of 8.3%. When the data are analyzed by broad contribution rate groupings, the average increase for groups with hourly rates \$2.00 and below was also 8.3% while the average increase was 10.9% for rate groups between \$2.00 and \$4.00, and 6.6% for rate groups over \$4.00. The higher contribution rate groups generally have longer service and older age characteristics than the lower rate groups, and they are becoming a larger portion of the total population. Table 2015-2 presents substantial statistical data on rate increases during the most recent four plan years.

### 3. Comparison of Sample Data Characteristics with Full Population Data Characteristics

Each year, we receive three Employee Census Reports from the Administrative Office based on the T2 Participant Data File (PDF). The first report contains information for the full population of Plan participants and the second and third reports contain corresponding information for the 2% and 5% samples of the full population. A comparison of key information from the full population and 5% reports is used to corroborate our assumption that the sample records adequately represent the total population (see Table 2015-1).

**4. Procedures to Account for Data with Missing or Invalid Birthdates or Sex Codes**

Records with missing or invalid birthdates were accounted for by creating valuation input records with imputed dates of birth. Since the average entry age has been approximately 31 in recent years, we assigned dates of birth 31 years prior to the first covered hour date. All remaining fields were taken from the T2 records provided by the administrative office.

Records with missing sex codes were assumed to represent males in the Non-Seasonal group and females in the Seasonal group. We have concluded that this assumption is reasonable based on the population characteristics illustrated in this section.

There were 138 non-retired valuation records, representing 2,760 participants with missing dates of birth. There were 1,550 Non-Seasonal non-retired sample valuation records with missing or invalid sex codes that are assumed to be males and 106 Seasonal non-retired sample valuation records with missing or invalid sex codes that are assumed to be female.

**5. Age Retirees, Disability Retirees, and Surviving Beneficiaries**

We based our actuarial calculations for retired lives on extracts from the ABC retired file provided by Prudential Investments. This file contains records for all Pensioners and Beneficiaries.

We received 268,945 records from Prudential. Of these, 10,958 were disregarded (10,006 deaths, 273 expirations, and 679 other rejects such as cancellations, post-valuation date retirements, etc.). This resulted in the inclusion of 257,987 records representing all benefits for 221,502 pensioners and beneficiaries. Approximately 78.0% of these records are for Age Retirees, 8.2% are for Disability Retirees, and 13.8% are for Beneficiaries. There were no missing birthdates in these records.

## TABLES OF STATISTICAL DATA

In the process of completing the actuarial valuation, we have compiled a considerable amount of statistical information that may prove useful in understanding the operation of the Plan. This information is illustrated in the following tables:

- **TABLE 2015-1 Comparison of Sample Data with Total Population Data for Active Vested Participants**

This table demonstrates that the 5% sample reasonably represents the entire population. Sample and full file participant counts, average hours and average contribution rates are compared for Active Vested participants. The table provides breakdowns of the data by forty-cent rate bands through \$5.20, and for rates over \$5.20. The correlation between sample and total population also was tested for non-vested and new participants and, in our opinion, actuarial results based on the sample population adequately represent values for the total population.

- **TABLE 2015-2 Basic Rate Increases for Continuing Non-Seasonal Active Participants**

This table shows the year-to-year increases in contribution rates for continuing Active Non-Seasonal participants, analyzed by end of year basic contribution rates. The percentage increases are shown for four experience years.

- **TABLES 2015-3N and 3S Distribution of Non-Seasonal and Seasonal Active Participants in PEER and Non-PEER Units by Contribution Rate**

These tables show the distribution of Non-Seasonal and Seasonal Actives in PEER and Non-PEER units by their basic hourly contribution rates.

- **TABLE 2015-4 Age at First Participation Distributions – Comparison of Experience with Actuarial Assumptions**

This table compares the entry age distributions of new participants during the most recent three years with the assumed distributions used in calculating the entry age normal cost used in the calculation of the Funding Policy actuarial liability. The relationship of actual versus assumed percentages indicates that the assumptions are suitable for entry age normal cost calculation purposes.

## TABLES OF STATISTICAL DATA

- **TABLES 2015-5N, 5S and 5VI Distributions of Non-Seasonal and Seasonal Active Participants by Attained Age and Contributory Service, and of Vested Inactive Participants by Attained Age.**

The first two tables show how Non-Seasonal and Seasonal active life participants are distributed by attained age and length of service. The third table shows how PEER and Non-PEER vested inactive participants are distributed by attained age, and shows average monthly accrued benefits by age band.

- **TABLE 2015-6 Data Build-Through Report/Participant Reconciliation**

This table exhibits data reconciliation by status for Active and Vested Terminated participants.

- **TABLE 2015-7 and 2015-8 New 2014 Pensioners and Beneficiaries; Recent History of New Pensioners**

Table 2015-7 shows the counts and average monthly pensions for Age Pensioners, Disabled Pensioners and Beneficiaries who were new to the December 31, 2014 retiree data file. The data for Age Pensioners is shown by option election.

Table 2015-8 compares the counts and average monthly pensions of new Pensioners during the most recent three-year period.

- **TABLE 2015-9 Historical Statistics by Year of Retirement**

For this table, all records representing Age Pensioners were analyzed by year of retirement.

- **TABLE 2015-10 through 2015-12 Age/Longevity of Age Pensioners, Beneficiaries and Disabled Pensioners**

These tables show the distribution of Pensioners and Beneficiaries by attained age group and number of years since retirement or pension commencement, as applicable.

The count for Disabled Pensioners is somewhat inflated by the existence of record pairs for many of the Disabled Retirees receiving an increase because of the increase in the floor percentage from 62% to 85%, effective January 1, 2000.



TABLE 2015-1

**Comparison of Sample Data with Total Population Data  
for Active Vested Participants**

Contribution Rates	5% Sample			Total Population		
	No. of Participants (Times 20)	Avg. 2014 Hrs. per Participant	Avg. 2014 Contrib. Rate	No. of Participants	Avg. 2014 Hrs. per Participant	Avg. 2014 Contrib. Rate
<b>Seasonals - Food Processing</b>						
All Contribution Rates	7,640	653	\$1.01	8,204	659	\$0.97
<b>Regulars - Food Processing</b>						
All Contribution Rates	6,700	1,940	\$1.88	6,233	1,954	\$1.85
<b>Non-Seasonals - Non-Food Processing</b>						
\$0.40 and under	2,520	1,871	\$0.24	2,453	1,878	\$0.24
Over \$0.40 but not more than \$0.80	3,880	1,831	\$0.61	3,637	1,776	\$0.62
Over \$0.80 but not more than \$1.20	12,920	1,795	\$1.09	12,596	1,820	\$1.09
Over \$1.20 but not more than \$1.60	6,700	1,907	\$1.42	6,510	1,934	\$1.42
Over \$1.60 but not more than \$2.00	6,080	1,892	\$1.80	5,925	1,922	\$1.81
Over \$2.00 but not more than \$2.40	6,100	1,951	\$2.17	6,291	1,947	\$2.18
Over \$2.40 but not more than \$2.80	4,680	1,971	\$2.58	5,413	1,950	\$2.58
Over \$2.80 but not more than \$3.20	7,640	1,994	\$3.02	7,386	2,004	\$3.02
Over \$3.20 but not more than \$3.60	11,720	1,973	\$3.43	10,766	1,951	\$3.42
Over \$3.60 but not more than \$4.00	7,720	1,963	\$3.81	7,625	1,962	\$3.81
Over \$4.00 but not more than \$4.40	7,600	1,986	\$4.20	7,399	1,993	\$4.21
Over \$4.40 but not more than \$4.80	5,800	1,931	\$4.56	5,506	1,924	\$4.58
Over \$4.80 but not more than \$5.20	4,760	1,997	\$4.95	4,604	1,990	\$4.95
Over \$5.20	42,240	1,801	\$7.58	42,677	1,784	\$7.57
<b>Total Non-Seasonals - Non-Food Processing</b>	<b>130,360</b>	<b>1,886</b>	<b>\$4.23</b>	<b>128,788</b>	<b>1,880</b>	<b>\$4.24</b>

TABLE 2015-2 Basic Rate Increases for Continuing Non-Seasonal Active Participants					
End of Year Contribution Rate	2014 Number of Lives	Average Increase			
		2014	2013	2012	2011
\$0.40 and under	3,580	-0.5%	-1.6%	0.6%	1.5%
Over \$0.40 but not more than \$0.80	4,600	8.3%	11.3%	3.4%	18.3%
Over \$0.80 but not more than \$1.20	17,180	3.1%	9.8%	3.3%	3.5%
Over \$1.20 but not more than \$1.60	10,920	18.6%	6.5%	3.1%	7.3%
Over \$1.60 but not more than \$2.00	9,520	8.9%	1.7%	1.8%	9.5%
Weighted Average: \$2.00 and under	45,800	8.3%	6.7%	2.7%	7.3%
Over \$2.00 but not more than \$2.40	10,460	3.1%	5.5%	7.7%	11.9%
Over \$2.40 but not more than \$2.80	6,820	11.4%	9.6%	4.0%	18.7%
Over \$2.80 but not more than \$3.20	9,080	17.7%	9.4%	8.1%	2.2%
Over \$3.20 but not more than \$3.60	13,520	11.1%	9.1%	3.7%	2.9%
Over \$3.60 but not more than \$4.00	9,720	12.5%	11.2%	11.2%	10.0%
Weighted Average: Over \$2.00 but not more than \$4.00	49,600	10.9%	8.8%	7.1%	8.1%
Weighted Average: Over \$4.00	70,520	6.6%	5.5%	6.1%	11.2%
Weighted Average: All Rates	165,920	8.3%	6.9%	5.4%	9.0%

TABLE 2015-3N			
Distribution of Non-Seasonal Active Participants in PEER and Non-PEER Units by Contribution Rate			
End of Year Contribution Rate	Number of PEER Actives	Number of Non-PEER Actives	Total Number of Actives
\$0.40 and under	1,680	3,720	5,400
Over \$0.40 but not more than \$0.80	1,220	4,760	5,980
Over \$0.80 but not more than \$1.20	13,840	5,500	19,340
Over \$1.20 but not more than \$1.60	6,160	5,840	12,000
Over \$1.60 but not more than \$2.00	7,460	3,400	10,860
Total for Rates \$2.00 and under	30,360	23,220	53,580
Over \$2.00 but not more than \$2.40	9,920	1,640	11,560
Over \$2.40 but not more than \$2.80	6,240	1,540	7,780
Over \$2.80 but not more than \$3.20	8,660	1,280	9,940
Over \$3.20 but not more than \$3.60	14,160	400	14,560
Over \$3.60 but not more than \$4.00	10,400	180	10,580
Total for Rates over \$2.00 but not more than \$4.00	49,380	5,040	54,420
Total for Rates over \$4.00	77,840	780	78,620
Total for All Rates	157,580	29,040	186,620

PEER Eligibility Statistics (Non-Seasonal Actives)			
PEER Unit	Number of Actives	Percentage of Non-Seasonal Actives by PEER Unit	Prior Year's Percentage of Non-Seasonal Actives by PEER Unit
Non-PEER	29,040	15.6%	15.9%
PEER 84	92,920	49.8%	49.9%
PEER 82	4,920	2.6%	2.7%
PEER 80	59,740	32.0%	31.5%

TABLE 2015-3S Distribution of Seasonal Active Participants in PEER and Non-PEER Units by Contribution Rate			
End of Year Contribution Rate	Number of PEER Actives	Number of Non-PEER Actives	Total Number of Actives
\$0.40 and under	2,420	180	2,600
Over \$0.40 but not more than \$0.80	0	0	0
Over \$0.80 but not more than \$1.20	80	20	100
Over \$1.20 but not more than \$1.60	7,200	380	7,580
Over \$1.60 but not more than \$2.00	160	40	200
Total for Rates \$2.00 and under	9,860	620	10,480
Over \$2.00 but not more than \$2.40	0	0	0
Over \$2.40 but not more than \$2.80	0	20	20
Over \$2.80 but not more than \$3.20	0	0	0
Over \$3.20 but not more than \$3.60	0	0	0
Over \$3.60 but not more than \$4.00	0	0	0
Total for Rates over \$2.00 but not more than \$4.00	0	20	20
Total for Rates over \$4.00	0	0	0
Total for All Rates	9,860	640	10,500

PEER Eligibility Statistics (Seasonal Actives)			
PEER Unit	Number of Actives	Percentage of Seasonal Actives by PEER Unit	Prior Year's Percentage of Seasonal Actives by PEER Unit
Non-PEER	640	6.1%	8.3%
PEER 84	1,880	17.9%	20.9%
PEER 82	400	3.8%	4.0%
PEER 80	7,580	72.2%	66.8%

TABLE 2015-4

Age at First Participation Distributions  
Comparison of Experience with Actuarial Assumptions

Ages	Non-Seasonal Employees		Seasonal Employees	
	Actual Percentages for 2012 thru 2014 New Participants	Percentages Assumed for Actuarial Calculation Purposes	Actual Percentages for 2012 thru 2014 New Participants	Percentages Assumed for Actuarial Calculation Purposes
Through 24	28.0%	28.0%	26.4%	25.0%
25 - 29	18.8%	20.0%	12.0%	13.0%
30 - 34	12.4%	12.5%	13.6%	13.0%
35 - 39	10.7%	10.0%	8.8%	9.0%
40 - 44	9.7%	10.0%	8.0%	9.0%
45 - 49	7.5%	7.5%	8.8%	9.0%
50 - 54	5.6%	5.0%	8.8%	9.0%
55 and Over	7.3%	7.0%	13.6%	13.0%

TABLE 2015-5N								
Distribution of Non-Seasonal Active Participants with Good Birthdates by Attained Age and Contributory Service								
Age Last Birthday	Years of Contributory Service							Total
	Less than 5	5 – 9	10 - 14	15 - 19	20 – 24	25 – 29	30 and Over	
Under 20	480	0	0	0	0	0	0	480
20 - 24	9,800	680	0	0	0	0	0	10,480
25 - 29	9,120	7,240	920	0	0	0	0	17,280
30 - 34	8,260	7,060	6,060	780	0	0	0	22,160
35 - 39	5,380	5,640	6,140	4,320	500	0	0	21,980
40 - 44	4,660	5,140	5,140	4,900	3,660	660	0	24,160
45 - 49	3,520	4,580	5,160	4,400	4,100	3,920	320	26,000
50 - 54	2,900	3,860	4,920	4,360	3,860	4,820	2,480	27,200
55 - 59	2,500	3,220	4,160	2,820	2,220	3,080	4,640	22,640
60 - 64	1,180	1,540	2,340	1,360	1,240	1,380	3,280	12,320
65 - 69	380	240	400	200	40	100	300	1,660
70 and Over	80	80	40	40	0	0	20	260
<b>Total</b>	<b>48,260</b>	<b>39,280</b>	<b>35,280</b>	<b>23,180</b>	<b>15,620</b>	<b>13,960</b>	<b>11,040</b>	<b>186,620</b>

TABLE 2015-5S								
Distribution of Seasonal Active Participants with Good Birthdates by Attained Age and Contributory Service								
Age Last Birthday	Years of Contributory Service							Total
	Less than 5	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 and Over	
Under 20	80	0	0	0	0	0	0	80
20 - 24	560	80	0	0	0	0	0	640
25 - 29	360	80	40	0	0	0	0	480
30 - 34	640	200	140	0	0	0	0	980
35 - 39	220	160	160	40	0	0	0	580
40 - 44	240	200	240	120	40	0	0	840
45 - 49	260	360	260	180	200	120	0	1,380
50 - 54	320	240	460	360	340	160	60	1,940
55 - 59	280	240	120	340	320	200	220	1,720
60 - 64	140	200	200	180	160	280	180	1,340
65 - 69	80	100	60	60	40	20	40	400
70 and Over	40	40	20	0	0	0	20	120
<b>Total</b>	<b>3,220</b>	<b>1,900</b>	<b>1,700</b>	<b>1,280</b>	<b>1,100</b>	<b>780</b>	<b>520</b>	<b>10,500</b>

TABLE 2015-5VI				
Distribution of Vested Inactive Participants by Attained Age				
Ages	Number PEER	Average Monthly Benefit	Number Non PEER	Average Monthly Benefit
20 - 24	0	\$0.00	40	\$198.19
25 - 29	0	\$0.00	2,400	\$295.35
30 - 34	0	\$0.00	7,900	\$349.05
35 - 39	0	\$0.00	11,520	\$439.25
40 - 44	0	\$0.00	20,480	\$494.19
45 - 49	40	\$3,241.16	29,960	\$518.58
50 - 54	500	\$1,771.14	34,660	\$551.16
55 - 59	620	\$1,747.40	30,180	\$528.05
60 - 64	460	\$1,754.36	20,020	\$436.01
65 - 69	80	\$1,505.86	5,100	\$309.75
70 and over	20	\$1,835.22	2,460	\$128.14
<b>Total</b>	<b>1,720</b>	<b>\$1,780.69</b>	<b>164,720</b>	<b>\$484.80</b>



<b>TABLE 2015-6</b>	
<b>Data Build-Through Report</b>	
<b>Participant Reconciliation</b>	
<b>Active Participants 1/1/2014</b>	<b>195,620</b>
New Participants	
Non-Vested	19,060
Vested	840
Rehires	1,720
Terminations	
Non-Vested	(7,920)
Vested	(6,840)
Retirements	
	(4,880)
Deaths	
	(100)
Data Adjustments	
	(340)
<b>Active Participants 1/1/2015</b>	<b>197,120</b>
<b>Vested Terminations 1/1/2014</b>	<b>167,940</b>
New Vested Terminations	
New Vested Terminations	7,380
Rehires	(1,720)
Retirements	(4,560)
Deaths	(200)
Data Adjustments	(2,400)
<b>Vested Terminations 1/1/2015</b>	<b>166,440</b>

<b>TABLE 2015-7</b> <b>New 2014 Pensioners and Beneficiaries</b> <b>Option Elections, Average Pensions and Average Ages</b> (Based on Number of Participants)			
Option	Count	Average Monthly Pension	Average Age as of January 1 2015
Life	2,627	\$907.57	64.1
Employee and Spouse 50%	334	\$332.81	64.0
Employee and Spouse 67%	734	\$1,441.98	63.7
Employee and Spouse 75%	931	\$1,065.36	64.4
Benefit Adjustment	2,464	\$1,404.66	59.5
Employee and Spouse 50% with Benefit Adjustment	187	\$464.09	60.1
Employee and Spouse 67% with Benefit Adjustment	610	\$1,886.15	59.8
Employee and Spouse 75% with Benefit Adjustment	795	\$1,556.82	60.1
All Age Pensioners	8,682	\$1,208.21	62.0
Disabled Pensioners	722	\$1,071.51	56.1
Surviving Beneficiaries	442	\$518.01	53.1
Total	9,846	\$1,167.20	61.2
Total Last Year	10,454	\$1,165.44	60.9

Notes: This exhibit includes all pensions associated with participants new to the December 31, 2014 ABC file.

The average monthly pension amount shown for the Benefit Adjustment Option and the Employee and Spouse with Benefit Adjustment Option is the sum of the lifetime portion of the benefit, plus any temporary benefit remaining as of December 31, 2014.

TABLE 2015-8						
Recent History of New Pensioners Option Elections and Average Monthly Pensions (Based on Number of Participants)						
Option	2014		2013		2012	
	Count	Average Monthly Pension	Count	Average Monthly Pension	Count	Average Monthly Pension
Life Only	2,627	\$907.57	2,668	\$874.31	2,483	\$839.93
Benefit Adjustment	2,464	\$1,404.66	2,654	\$1,360.70	2,540	\$1,320.29
Employee and Spouse	1,999	\$1,081.25	2,046	\$1,057.52	1,861	\$1,015.98
Employee and Spouse with Benefit Adjustment	1,592	\$1,559.65	1,783	\$1,668.15	1,680	\$1,519.60
All Age Pensioners	8,682	\$1,208.21	9,151	\$1,211.01	8,564	\$1,153.99
Disabled Pensioners	722	\$1,071.51	825	\$1,044.70	850	\$1,051.25
Surviving Beneficiaries	442	\$518.01	478	\$501.45	340	\$572.13
Total	9,846	\$1,167.20	10,454	\$1,165.44	9,754	\$1,124.75

Notes: This exhibit includes all pensions associated with participants new to the ABC file as of December 31, 2012, 2013, and 2014.

The average monthly pension amount shown for the Benefit Adjustment Option and the Employee and Spouse with Benefit Adjustment Option is the sum of the lifetime portion of the benefit, plus any temporary benefit remaining as of December 31, 2014.

<b>TABLE 2015-9</b> <b>Historical Statistics by Year of Retirement</b> (Based on Number of Records)				
Year of Retirement	Number of Surviving Retirees	Average Age at Retirement	Average Age as of 1/1/2015	Average Monthly Pension Normal Form
1989 and prior	18,080	58.8	87.9	\$445.99
1990 - 1994	19,869	59.4	81.5	\$783.33
1995 - 1999	28,557	59.7	76.9	\$909.98
2000 - 2004	42,034	60.2	72.5	\$1,074.29
2005 - 2009	47,489	60.9	68.3	\$975.59
2010 - 2014	45,136	61.1	63.7	\$1,096.43
<b>Total</b>	<b>201,165</b>	<b>60.3</b>	<b>72.4</b>	<b>\$947.43</b>
<b>Total Last Year</b>	<b>196,275</b>	<b>60.2</b>	<b>72.3</b>	<b>\$940.80</b>

TABLE 2015-10							
Age / Longevity of Age Pensioners (Based on Number of Records)							
Attained Age Group	Years Since Pension Commencement						Total
	Less than 1	1 – 4	5 - 9	10 - 14	15 - 19	Greater than 19	
Under 50	16	63	25	6	3	2	115
50 - 54	408	847	154	26	11	1	1,447
55 - 59	1,519	6,914	2,132	125	20	3	10,713
60 - 64	2,361	10,078	9,686	2,096	92	23	24,336
65 - 69	2,111	17,577	12,265	10,512	1,077	57	43,599
70 - 74	63	3,106	19,714	12,626	8,824	401	44,734
75 - 79	1	58	3,366	13,639	9,838	7,072	33,974
80 - 84	0	9	118	2,912	6,523	11,495	21,057
85 - 89	0	2	20	71	2,092	11,631	13,816
90 and Over	0	3	9	21	77	7,264	7,374
<b>Total</b>	<b>6,479</b>	<b>38,657</b>	<b>47,489</b>	<b>42,034</b>	<b>28,557</b>	<b>37,949</b>	<b>201,165</b>

TABLE 2015-11								
Age / Longevity of Beneficiaries (Based on Number of Records)								
Attained Age Group	Years Since Pension Commencement							Total
	Deferred	Less than 1	1 - 4	5 - 9	10 - 14	15 - 19	Greater than 19	
39 and Under	8	78	738	646	336	62	23	1,891
40 - 44	20	12	77	82	40	18	24	273
45 - 49	60	25	121	117	86	57	59	525
50 - 54	78	43	284	281	218	139	111	1,154
55 - 59	33	56	475	570	473	287	261	2,155
60 - 64	12	44	433	866	873	513	491	3,232
65 - 69	2	11	319	873	1,426	1,052	964	4,647
70 - 74	0	6	81	537	1,342	1,735	2,141	5,842
75 - 79	0	0	12	145	659	1,490	3,372	5,678
80 - 84	0	0	4	44	153	587	3,915	4,703
85 - 89	0	0	1	8	38	162	3,176	3,385
90 and Over	0	0	1	1	10	40	2,139	2,191
<b>Total</b>	<b>213</b>	<b>275</b>	<b>2,546</b>	<b>4,170</b>	<b>5,654</b>	<b>6,142</b>	<b>16,676</b>	<b>35,676</b>

TABLE 2015-12							
Age / Longevity of Disabled Pensioners (Based on Number of Records)							
Attained Age Group	Years Since Pension Commencement						Total
	Less than 1	1 - 4	5 - 9	10 - 14	15 - 19	Greater than 19	
39 and Under	2	27	26	5	0	0	60
40 - 44	4	60	80	36	7	0	187
45 - 49	4	124	172	104	47	17	468
50 - 54	30	418	344	254	113	57	1,216
55 - 59	66	923	784	519	233	200	2,725
60 - 64	45	867	1,150	864	369	499	3,794
65 - 69	4	209	868	1,207	662	860	3,810
70 - 74	0	0	134	832	892	1,411	3,269
75 - 79	0	0	0	109	568	1,921	2,598
80 - 84	0	0	0	0	72	1,755	1,827
85 - 89	0	0	0	0	2	831	833
90 and Over	0	0	0	2	0	357	359
<b>Total</b>	<b>155</b>	<b>2,628</b>	<b>3,558</b>	<b>3,932</b>	<b>2,965</b>	<b>7,908</b>	<b>21,146</b>

# Appendix C

## Actuarial Assumptions and Cost Methods



## Actuarial Assumptions

### Investment Earnings Assumptions

#### ***Fixed Dollar Account***

The assumed rate of return for these assets, which is used to value the pension benefits<sup>1</sup> for Pensioners and Beneficiaries whose benefits commenced on or before August 1, 1982 (as identified by Prudential Investments), is 6.50%.

#### ***1982/1984 Annuity Account***

The assumed rate of return for these assets, which is used to value the pension benefits<sup>1</sup> for Pensioners and Beneficiaries whose benefits commenced from September, 1982 through December, 1984 (as identified by Prudential Investments), is 5.87%.

#### ***Strategic Bond Account (SBA)***

The assumed rate of return for these assets is 4.88%. This assumption is used to value 85.20% of the pension benefits<sup>1</sup> related to service through December 31, 1985, based on December 31, 1984 Plan provisions and not covered by the prior asset dedications.

#### ***Remaining Assets***

The assumed rate of investment return which is used to value all benefits expected to be paid out of remaining assets and future contributions is 7.00%, net of investment expenses.

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<sup>1</sup>Single sum death benefits are not valued using the investment earnings assumptions described above. Instead, the "Remaining Assets" assumption is used.

### Post-retirement Mortality Rates

For males

- Rates based on RP 2000 mortality tables
- Ages up through 29, male employee table,
- Ages 30-49, male employee table with blue collar adjustment
- Ages 50-70, custom blend of the healthy male annuitant and the employee tables, starting at 50%/50% at age 50, to 98%/2% at age 70. The blended table is adjusted by male blue collar adjustments
- Ages 70 and above, healthy male annuitant, adjusted by blue collar adjustments
- All projected to 2015 using male Scale AA

For females

- Rates based on RP 2014 mortality tables
- Ages up through 49, female employee table set forward one year, with blue collar adjustment
- Ages 50-78, healthy female annuitant table set forward one year, with blue collar adjustment
- Ages 79-119, 95% of healthy female annuitant table, set forward one year, with blue collar adjustment
- All projected to 2020 using Scale BB, set forward one year

Special mortality tables, reflecting Plan experience, are used for disabled pensioners. Examples of mortality rates used are shown in the table below:

Annual Probability of Death						
Age Last Birthday	Non-Retired Participants		Age Retirees & Beneficiaries		Disabled Retirees	
	Male	Female	Male	Female	Male	Female
25	0.0003	0.0002	0.0002	0.0002	0.0244	0.0176
40	0.0012	0.0005	0.0005	0.0007	0.0244	0.0176
55	0.0027	0.0020	0.0043	0.0040	0.0252	0.0182
70	0.0156	0.0076	0.0151	0.0199	0.0336	0.0242
85	0.1086	0.0677	0.0677	0.0797	0.1362	0.0981

**Pre-retirement Mortality Rates**

The assumed annual rates of healthy mortality for males is based on the RP 2000 Mortality Tables for Male Employees adjusted for Blue Collar and projected by Scale AA to 2015.

The assumed annual rates of healthy mortality for females is based on the RP 2014 Mortality Tables for Female Employees, set forward one year, adjusted for Blue Collar and projected by Scale BB, set forward one year, to 2020.

**Provision for Non-investment Expenses**

Administrative expenses are assumed to be \$97 million per year, payable mid-year.

**Age Retirement Rates**

Age retirement rates apply only to retirement eligible participants.

We use five retirement rate tables. Their values are displayed in the three columns of table (1), and the fourth and fifth columns of table (2), below. (Note that the first two columns of table (1), and the first two columns of table (2), represent the same two tables).

In general, for a given participant in a PEER unit, two or more of these tables may be accessed during a single run, with the under 25 years of service rates applying until the participant is projected to attain the required number of age plus service points, (80, 82, or 84) at which time the 25 or more years of service rates apply.

Participants with fewer than 25 Years of Service

Age Last Birthday	Non-PEER Eligible Actives	PEER Eligible Actives	Non-PEER Eligible Vested Terminated
49	0.030	0.150	NA
50	0.030	0.150	NA
51	0.030	0.150	NA
52	0.030	0.150	NA
53	0.030	0.150	NA
54	0.080	0.160	0.160
55	0.060	0.120	0.120
56	0.060	0.120	0.060
57	0.060	0.120	0.060
58	0.060	0.120	0.060
59	0.100	0.200	0.100
60	0.100	0.200	0.100
61	0.350	0.350	0.300
62	0.350	0.350	0.200
63	0.150	0.150	0.150
64	0.300	0.300	0.300
65	0.300	0.300	0.200
66	0.200	0.200	0.060
67	0.200	0.200	0.060
68	0.200	0.200	0.060
69	1.000	1.000	1.000

Participants with 25 or more Years of Service

Age Last Birthday	Non-PEER Eligible Actives	PEER Eligible Actives	Non-PEER Eligible Vested Terminated	PEER Eligible Vested Terminated
49	0.030	0.150	0.150	0.230
50	0.030	0.150	0.150	0.230
51	0.030	0.150	0.150	0.230
52	0.030	0.150	0.150	0.230
53	0.030	0.150	0.150	0.230
54	0.080	0.160	0.160	0.350
55	0.060	0.120	0.120	0.250
56	0.060	0.120	0.090	0.200
57	0.060	0.120	0.090	0.180
58	0.060	0.120	0.090	0.180
59	0.100	0.200	0.150	0.300
60	0.100	0.200	0.150	0.300
61	0.350	0.350	0.350	0.350
62	0.350	0.350	0.350	0.350
63	0.150	0.150	0.150	0.150
64	0.300	0.300	0.300	0.300
65	0.300	0.300	0.300	0.300
66	0.200	0.200	0.200	0.200
67	0.200	0.200	0.200	0.200
68	0.200	0.200	0.200	0.200
69	1.000	1.000	1.000	1.000

**Disability Retirement**

Disability rates apply only to employees with 4 or more years of vesting service.

Age Last Birthday	Examples of Annual Probability of Disability Retirement
32	0.0006
37	0.0008
42	0.0011
47	0.0017
52	0.0030
57	0.0052

**Employee Termination Rates**

The termination rates shown below exclude death, disability and retirement rates. Termination rates are not applied when an individual is eligible for age retirement. Below are examples of annual probabilities of employment termination for active employees with less than 9 years of coverage.

Non-Seasonal Employees				
Age Last Birthday At First Covered Hour	Years Since First Covered Hour			
	0	1	2	8
22	0.0945	0.1795	0.2272	0.1120
32	0.0844	0.1478	0.1914	0.0896
42	0.0776	0.1214	0.1674	0.0784
52	0.0641	0.0898	0.1435	0.0784
62	0.0574	0.0686		
Seasonal Employees				
Age Last Birthday At First Covered Hour	Years Since First Covered Hour			
	0	1	2	8
22	0.7004	0.5443	0.3039	0.1600
32	0.6254	0.4482	0.2559	0.1280
42	0.5754	0.3682	0.2240	0.1120
52	0.4753	0.2721	0.1920	0.1120
62	0.4253	0.2081		

Examples of annual probabilities for termination are listed below for Non-Seasonal and Seasonal Active employees with 9 or more years of coverage.

Non-Seasonal and Seasonal Employees		
Age Last Birthday	After 9 or more Years Since First Covered Hour	
	Non-Seasonal	Seasonal
32	0.0734	0.0978
42	0.0435	0.0790
52	0.0422	0.0562
62	0.0077	0.0102

### Future Annual Hours and Contributions

Projected benefit amounts for 2015 were calculated assuming that: (a) Active Non-Seasonal employees work an average of 1800 hours per year; (b) Active Seasonal employees work an average of 600 hours per year; and (c) contribution rates would continue at the December 31, 2014 levels.

A non-retired participant was considered Active as of January 1, 2015 if he or she earned at least 250 covered hours during 2014, or at least 1 covered hour in 2014 and at least 250 covered hours in 2013.

### Expected Annual Employer Contributions

The annual employer contributions expected during 2015 have been assumed to be \$1.500 billion. This amount is used to determine the projected Funding Standard Account and the expected amortization period of the UAL.

### Sample Valuation Data

We have relied on data supplied by Prudential Investments and Northwest Administrators. The actuarial values for non-retired participants are based on a sample of the employees covered under the Plan, as described in Appendix B. The actuarial values for records with valid data are adjusted for sampling and incomplete data, and the results are assumed to represent the values of the entire covered group.

### Form of Payment

Participants without recent coverage are assumed to elect the single life annuity. Participants with recent coverage are assumed to elect a four year certain and life annuity. A factor of 1.0039 is applied in order to account for the availability of a subsidized joint and survivor benefit.

### Probability of Marriage

Non-retired participants are assumed to be married at various percentages. Below is a brief summary of these percentages.

Age	Probability of Marriage
32	69.8%
42	75.5%
52	82.0%
62	82.0%

### Spouse Age Difference

Where applicable, husbands are assumed to be two years older than their wives.

### Past Employment

Total past employment (continuous past employment plus special past employment) for each employee was calculated as the number of years from year of union membership until year of coverage, but not less than the known continuous past employment for the employee.

### Survivor Benefit Costs

The family composition of covered employees was assumed to be similar to that tabulated in the 15<sup>th</sup> Actuarial Valuation published by the Railroad Retirement Board. This assumption was used to estimate the probability that an employee will be survived by a beneficiary eligible for a survivor benefit and to establish the probable duration of the benefit.

### Inactive Participants

Vested inactive participants who are older than 74 as of the valuation date are assumed to be deceased and excluded from this valuation. Inactive participants who are coded as a claim for more than one year are expected to be either deceased or not eligible for a benefit from the Plan. We assume that any such participants do not have and will not create any liability for the Plan.

### Assumption Changes Incorporated in the January 1, 2015 Valuation

- The current liability interest rate was decreased from 3.64% to 3.51% to remain within the IRS prescribed corridor.
- The current liability mortality tables were changed from annuitant / non-annuitant projected version of the RP-2000 Mortality Tables for 2014 to the annuitant / non-annuitant projected version of the RP-2000 Mortality Tables for 2015 as prescribed by the IRS.
- The discount rate used for the 1982/1984 Annuity Account was changed to 5.87% for 2015 from 6.59% for 2014, and the discount rate used for the SBA Dedication was changed to 4.88% for 2015 from 4.42% for 2014.

The following assumptions were changed to better reflect recent and expected future experience:

- The anticipated annual employer contributions were increased to \$1.500 billion for purposes of projecting the 2015 Funding Standard Account and determining the Amortization Period.
- The subsidized joint and survivor factor was changed from 1.0045 to 1.0039 to update to current assumptions.
- The future annual administrative expenses were increased to \$97 million from \$87 million.
- The assumed annual rates of pre-retirement healthy mortality for females were changed to the RP 2014 Mortality Tables for Female Employees, set forward one year, adjusted for Blue Collar and projected by Scale BB, set forward one year, to 2020.
- The assumed annual rates of post-retirement healthy mortality for females were changed to the RP 2014 Mortality Tables for Employees and Annuitants, set forward one year, adjusted for Blue Collar and projected by Scale BB, set forward one year, to 2020.

### Actuarial Value of Assets

The Prudential Investments Fixed Dollar Account (FDA), in general, was valued at book value. However, to the extent that cash flows from the FDA are not sufficient to provide the projected FDA benefits, certain bonds valued at amortized cost were assigned to the FDA so that all projected FDA benefits were supported by dedicated assets. The 1982/1984 Annuity Account and the SBA were valued on an amortized cost basis. Below is a summary of the actuarial value of the dedicated asset as of the valuation date:

<b>Dedicated Account</b>	<b>(In Thousands)</b>
FDA	\$ 94,100
1982/1984 Annuity Account	57,629
SBA	<u>3,345,612</u>
Total Actuarial Value of Dedicated Assets	\$ 3,497,341

The remaining assets were valued using a smoothing procedure under which the 2008 market value loss is recognized at the rate of 10% per year for ten years. All other market value gains and losses are recognized at the rate of 20% per year over five years. The actuarial value of the remaining assets may not be greater than 120% or less than 80% of the market value.

The actuarial value of assets for purposes of determining the unfunded vested benefit liability is the same method used for ERISA funding purposes, except the Pension Relief Act of 2010 election to smooth the 2008 investment loss is not used.

### Actuarial Cost Method

The Unit Credit actuarial cost method was used for this valuation. Under this method, the Actuarial Liability is the Accrued Benefit Liability for all participants included on the valuation date. The Normal Cost is: (i.) the expected increase in Accrued Benefit Liability for these participants resulting from benefits earned during the current year, plus (ii.) the expected increase in Accrued Benefit Liabilities resulting from new participants who are covered employees on the valuation date.



This table shows the number of years of life expectancy for retirees according to the mortality tables (see Appendix C for description of tables) used to value liabilities under the Plan. The long periods over which age retirees are expected to receive payments indicate the significant assets required to fund benefits for participants who are already retired. The shorter life expectancies for Disabled Pensioners imply a lower level of assets required for males and females who retire under the Plan’s disability provisions.

Years of Life Expectancy				
Age	Age Pensioner		Disabled Pensioner	
	Male	Female	Male	Female
45	35.2	38.7	24.5	28.3
50	30.5	33.9	22.4	25.7
55	26.0	29.5	20.1	22.9
60	21.7	25.2	17.5	20.0
62	20.0	23.5	16.5	18.7
65	17.7	21.0	14.8	16.9
70	14.0	17.1	11.8	13.6
75	10.7	13.5	9.0	10.5
80	7.8	10.3	6.7	8.1
85	5.6	7.5	5.0	6.2
90	3.9	5.3	3.7	4.7

Note: Life expectancies change only when retired life mortality rates are revised.