# Local 805 Pension and Retirement Plan Actuarial Valuation <br> 3/31/2016 

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January 2017

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## 1. Certification of Results

This report was prepared on behalf of the Teamsters Local 805 Pension Plan based on employee data, asset statements and Plan documents provided by the Plan Sponsor or its representatives. We relied upon the data as submitted, without formal audit. However, the data was tested for reasonableness, and we have no reason to believe that any other information which would have had a material effect on the results of this valuation was overlooked.

Therefore, to the best of our knowledge and belief, the information presented in this report is complete and accurate, and in our opinion, each assumption used represents our best estimate of anticipated experience under the Plan.

## Certified by:



Craig AVoelker, FSA, MAAA, EA
Enrolled Actuary No.: 14-05537

Local 805 Pension and Retirement Plan
O'sullivan
Actuarial Valuation as of 3/31/2016

- Associates Inc
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## 2. Valuation Summary

## A. Long-Term Funding

Projected annual contributions of $\$ 1.55$ million ( $\$ 309.87$ per month) plus the value of expected future withdrawal liability payments of $\$ 0.24$ million ( $\$ 49.01$ per month) fall short of the total annual cost of benefits of $\$ 11.62$ million ( $\$ 2,325.47$ per month). This leaves a negative margin of $\$ 9.83$ million or $\$(1,966.59)$ per month.

## B. Withdrawal Liability

White Rose Trucking withdrew from the Plan in 2014 and was assessed $\$ 13.5$ million dollars in withdrawal liability. The employer is currently in bankruptcy proceedings and it is unclear how much money the Plan will receive.

We continue to assume White Rose will not pay any of its withdrawal liability assessment.
In addition, Center Candy withdrew from the Plan in 2016, and YRC incurred a partial withdrawal in the Plan Year ended $3 / 31 / 2013$. These companies are currently paying their assessments, and their payments are included in our funding projections.

## C. Pension Protection Act

As of April 1, 2016 the Plan's funding percentage is $36.7 \%$ and it has a negative credit balance. Additionally, the Plan is projected to become insolvent within the current or next 19 years, and its ratio of inactive to active participants is in excess of 2 to 1 . Therefore, as of April 1, 2016, the Plan is in Critical and Declining Status.

The Trustees have adopted a Rehabilitation Plan to address the Plan's funding issues, which is explained in detail in Section 4.4 of the report.

## D. Assumption Changes

We updated the retirement assumption as shown in Section 6.1, and changed the assumed interest rate from $6.75 \%$ per year to $6.50 \%$.

## 3. Summary of Funding Measures

| 1. Current | As of March 31 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2016 |  | 2015 |  |
| Assets |  |  |  |  |
| a at Market | \$ | 51,672,207 | \$ | 62,149,280 |
| b at Actuarial | \$ | 59,927,451 | \$ | 68,843,795 |
| c Actuarial / Market (b/a) |  | 116.0\% |  | 110.8\% |
| Present Values |  |  |  |  |
| d Vested Benefits | \$ | 162,975,125 | \$ | 158,491,026 |
| e Accrued Benefits (Accrued Liability) | \$ | 163,427,314 | \$ | 158,912,439 |
| Funding Percentages |  |  |  |  |
| f Vested at market (a/d) |  | 31.7\% |  | 39.2\% |
| g Vested at actuarial (b/d) |  | 36.8\% |  | 43.4\% |
| h Accrued at market (a/e) |  | 31.6\% |  | 39.1\% |
| i Accrued at actuarial (b/e) |  | 36.7\% |  | 43.3\% |

For Plan Year Ending March 31

## 2. Prospective

Contributions

| a Minimum Required | \$ | 47,294,876 | \$ | 38,348,354 |
| :---: | :---: | :---: | :---: | :---: |
| b Anticipated | \$ | 1,548,436 | \$ | 1,777,517 |
| c Actual |  | tbd | \$ | 1,582,883 |
| d Maximum Deductible | \$ | 261,624,998 | \$ | 246,184,995 |
| e Credit Balance | \$ | $(45,555,942)$ * | \$ | $(36,717,078)$ |
| Minimum to preserve Credit Balance * projected | \$ | 10,275,165 * | \$ | 9,125,471 |
| g WL PMTs received in year | \$ | 140,747 | \$ |  |
| h WL PMTs receivable spread over 15 years * Projected | \$ | 244,922 | \$ | - |
| Costs |  |  |  |  |
| i Cost of benefits earned in year | \$ | 927,774 | \$ | 940,735 |
| j Amortization of Unfunded Liability | \$ | 10,692,570 | \$ | 9,444,724 |
| k Total Cost ( $\mathrm{i}+\mathrm{j}$ ) | \$ | 11,620,344 | \$ | 10,385,459 |
| 1 Margin (b+h-k) | \$ | $(9,826,986)$ | \$ | (8,607,942) |

## 3. Assumptions

a Interest rate per annum
6.50\%
6.75\%
b Total Months
4,997

## 4. Plan Cost

### 4.1 Contributions, Cost and Margin

A. As of

1. Actuarial liability
2. Actuarial value of assets
3. Unfunded actuarial liability (1-2)
4. Normal cost
5. Expenses
6. Total cost of benefits $(4+5)$
7. Amortization of unfunded liability

3/31/2016
\$ 163,427,314
59,927,451
\$ 103,499,863
456,807
440,000
\$ 896,807
\$ 10,335,679
B. Anticipated Contribution Income*

| 1. Projected months | 4,997 |
| :--- | ---: |
| 2. Projected contribution rate | $\underline{\$ 309.87}$ |
| 3. Anticipated annual contribution (1x2) | $\$ 1,548,436$ |
| 4. Value of future withdrawal payments | $\underline{\$ 244,922}$ |
| 5. Total | $\$ 1,793,358$ |

C. Actuarial Costs*

1. Cost of benefits earned in the year
2. Amortization of unfunded liability
3. Total annual costs $(1+2)$
D. Margin (B3-C5)
E. Market value of assets
\$ 51,672,207
F. Spread Statistic
G. Margin using assets at market
-16.0\%
\$(10,679,836)

As a \% of
Contributions
100.0\%
13.7\%
113.7\%

There are two component costs to funding a pension plan: the cost of benefits earned in the year and the amortization of the unfunded liability. The costs above are calculated consistent with a funding policy of paying off the unfunded liability over 15 years assuming asset returns of $6.50 \%$ annually. The margin, found on Line D above, indicates that the Plan needs an average additional amount of $\$ 1,966.59$ per month (off the accrual rate) to pay for all future benefits.

There are many actuarial measures and statistics to measure the state of the Plan's funding. The margin is designed to provide a single simplified statistic for a Trustee to get a sense for whether the Plan is keeping up with its costs. As long as the margin is positive, it is a strong indication that the current benefits are affordable on a long-term basis. If negative, it is an indication that the overall funding may need to be improved before benefits are affordable.

* Assumes contributions and costs are paid at the end of the month.


### 4.2 Development of Plan Asset Values

### 4.2.1 Market Value of Assets

A. Assets at $3 / 31 / 2015$

Total Fund
\$ 62,149,280
B. Employer contributions \$ 1,582,883
C. Withdrawal Liability payments received
D. Investment income:

1. Interest and dividends \$ 1,019,430
2. Realized/unrealized gain/(loss)
$(707,588)$
3. Investment fees
$(214,327)$
4. Total investment income
\$ 97,515
E. Distributions:
5. Benefit payments $\quad \$(11,704,972)$
6. Administrative expenses $(452,499)$
7. Total distributions
\$ (12,157,471)
F. Market value as of $3 / 31 / 2016 \quad \$ 51,672,207$
$\begin{aligned} & \text { G. Average invested assets } \\ & (\mathrm{A}+.5 \times(\mathrm{B}+\mathrm{C}+\mathrm{E} 3))\end{aligned} \$ 56,861,986$
H. Rate of return, D4 $\div \mathrm{G} \quad 0.2 \%$

### 4.2.2 Actuarial Value of Assets

A. Market value as of $3 / 31 / 2016$

Development of amount deferred

| Year Ending <br> March 31 | Unexpected <br> Amount | Percentage <br> Deferred | Deferred <br> 1. 2009 |
| :---: | :---: | :---: | :---: |
| $\$(30,094,302)$ | $20 \%$ | Amount <br> 2. 2015 | 772,221 |
| 3.2016 | $(3,740,669)$ | $33 \%$ | $257,860)$ |
| 3. 2016 |  | $(2,493,779)$ |  |

B. Total deferred amount
C. Preliminary actuarial value of assets (A-B)
D. $80 \%$ of market value
E. $120 \%$ of market value
F. Actuarial value as of $3 / 31 / 2016$ (C not less than D or greater than E)

### 4.2.3 Actuarial Asset Gain/(Loss)

A. Actuarial assets at $3 / 31 / 2015$
\$ 68,843,795
B. Investment income:

1. Expected income (net of investment expenses)
\$ 3,838,184
Development of amount recognized

| Year Ending <br> March 31 | Unexpected <br> Amount | Percentage <br> Recognized | Recognized <br> Amount |  |
| :---: | :---: | :---: | :---: | :---: |
| 2009 | $\$(30,094,302)$ | $10 \%$ |  | $\$(3,009,430)$ |
| 2014 | $5,456,954$ | $33 \%$ |  | $1,818,985$ |
| 2016 | 772,221 | $33 \%$ |  | 257,395 |
|  |  | $(3,740,669)$ | $33 \%$ |  |
| $1,246,890)$ |  |  |  |  |

2. Total recognized amount
\$ $(2,179,940)$
3. Forced recognition (due to $+/-20 \%$ corridor) $\underline{\$ 0}$
4. Total investment income $(1+2+3) \quad \$ 1,658,244$
C. Employer contributions $\$ 1,582,883$
D. Withdrawal Liability Payments 0
E. Distributions:
5. Benefit payments \$ (11,704,972)
6. Administrative expenses
$(452,499)$
7. Total distributions
F. Actuarial value as of $3 / 31 / 2016 \quad \$ 59,927,451$
G. Average actuarial value (A+.5x(C+D+E3)) \$ 63,556,501
H. Rate of return (B4 $\div \mathrm{G}) \quad 2.6 \%$
I. Assumed rate of return 6.75\%
J. Expected income (G x I) 4,290,064
K. Asset gain/(loss) (B4-J)
$(2,631,820)$

### 4.2.4 Total Gain/Loss

A. Unfunded accrued liability (UAL) at $3 / 31 / 2015$
\$ 90,068,644
B. Annual cost of benefits and expenses at $3 / 31 / 2015$

908,193
C. Less contributions
$(1,582,883)$
D. Interest on A, B, and C
E. Expected unfunded accrued liability as of $3 / 31 / 2016(\mathrm{~A}+\mathrm{B}+\mathrm{C}+\mathrm{D})$

6,092,544
F. Preliminary UAL before changes as of $3 / 31 / 2016$
G. Total gain/(loss), (E-F)
\$ 95,486,498
100,961,599
\$ $(5,475,101)$
H. Change due to:

1. Assumption changes \$2,538,264
2. Plan amendments 0
3. Method changes $\underline{0}$
4. Subtotal changes \$ 2,538,264
I. Actual unfunded (surplus) accrued liability as of $3 / 31 / 2016$ ( $\mathrm{F}+\mathrm{H} 4$ )
\$ 103,499,863
J. Gain/(loss) due to:
5. Asset experience $\$(2,631,820)$
6. Expenses 3,267
7. Demographic experience
$(2,846,548)$
8. Total gain/(loss)
\$ $(5,475,101)$

### 4.3 Historical Information

### 4.3.1 Gain/(Loss)

| Plan <br> Year |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Ending <br> 3/31 | Assets | Expense | Demographic Assumptions | Total Gain/(Loss) |
| 2012 | \$ 557,831 | \$ 56,563 | \$ (2,493,973) | \$ (1,879,579) |
| 2013 | $(2,264,932)$ | 19,058 | $(970,540)$ | $(3,216,414)$ |
| 2014 | 477,351 | $(8,979)$ | $(1,034,657)$ | $(566,285)$ |
| 2015 | 771,764 | $(118,898)$ | $(205,180)$ | 447,686 |
| 2016 | \$ (2,631,820) | \$ 3,267 | \$ $(2,846,548)$ | \$ (5,475,101) |
| 5-year |  |  |  |  |
| Average | \$ $(617,961)$ | \$ $(9,798)$ | \$ (1,510,180) | \$ $(2,137,939)$ |

Gain/loss analysis is one of the most important tools available to an actuary to ensure that the actuary's model of the Plan's funding is accurate. The exhibit above shows the total gain/(loss) broken down into two components: assets and demographic assumptions.

The gain/(loss) on assets is very unpredictable due to the unpredictable returns on the market value of assets. Moreover, the gain/(loss) on assets is greatly influenced by the smoothing method. The pattern of asset gains is discussed later in this report.

After itemizing the gain/(loss) on assets and administrative expenses, what remains is the gain/(loss) on all the other demographic assumptions including retirement, turnover, disability, and mortality. Over time, to remain confident in the future funding, it is important that the gains and losses on the demographic assumptions average zero, or at least a relatively small number.

For the last five years the Plan has averaged a loss on demographic assumptions. We will continue to monitor the gain and losses and make assumption changes in the future as necessary.

### 4.3.2 Asset Information

| As of$3 / 31$ | Contributions | With- <br> drawal <br> Liability <br> Payments | Benefits | Expenses | Market Investment Income | Market Value of Assets | $\begin{gathered} \text { ROR } \\ \text { At } \\ \text { Market } \end{gathered}$ | $\begin{gathered} \text { ROR } \\ \text { At } \\ \text { Actuarial } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 2012 | \$ 1,333,334 | \$ | \$ (11,224,000) | \$ $(389,562)$ | \$ 3,964,581 | \$ 71,300,012 | 5.4\% | 8.2\% |
| 2013 | 1,616,634 | - | $(11,428,240)$ | $(385,567)$ | 6,816,972 | 67,919,811 | 10.0 | 4.6 |
| 2014 | 1,784,266 | 20,000 | $(11,534,520)$ | $(410,313)$ | 9,154,354 | 66,933,598 | 14.4 | 8.2 |
| 2015 | 1,770,559 | - | $(11,666,983)$ | $(545,186)$ | 5,657,292 | 62,149,280 | 8.7 | 8.6 |
| 2016 | 1,582,883 | $=$ | $(11,704,972)$ | $(452,499)$ | 97,515 | \$ 51,672,207 | 0.2\% | 2.6\% |
| Totals | \$ 8,087,676 | \$ 20,000 | \$ (57,558,715) | \$ (2,183,127) | \$ 25,690,714 |  |  |  |

The average geometric return on the market value of assets for the 5 years ending March 31, 2016 was $7.6 \%$.
The performance of the actuarial value of assets as measured by the rate of return smooths out the market value performance. As seen in the table above, the market value return in Plan Year ended $3 / 31 / 2016$ was $0.2 \%$. The actuarial rate of return was $2.6 \%$.


### 4.3.3 Employment

| Plan Year <br> Ending |  | Weighted <br> Average | Estimated <br> Total |
| :---: | ---: | :---: | :---: |
| $\frac{3 / 31}{2013}$ | $\$ \mathbf{I n c o m e}$ | Intribution <br> Contribution | Rate <br> Units of |
| 2014 | $1,6164,634$ | $\$ 257.85$ | 6,266 |
| Employment |  |  |  |
| 2015 | $1,770,559$ | 293.24 | 6,085 |
| 2016 | $\$ 1,582,883$ | $\$ 301.07$ | 5,978 |
|  |  |  | 5,258 |



The employment assumption included in the valuation is 4,997 total units annually.

### 4.3.4 Funded Percentage

| Plan | Present |  |  | Funded Percentage as of March 31 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Years | Market | Value of |  | $90 \%$ |  |  |  |  |  |  |
| Ending | Value | Accrued | Funded | 80\% |  |  |  |  |  |  |
| 3/31 | of Assets | Benefits | Percentage | 70\% |  |  |  |  |  |  |
| 2011 | \$ 77,615,659 | \$ 134,175,975 | 57.8\% | 60\% |  |  |  |  |  |  |
| 2012 | 71,300,012 | 136,331,942 | 52.3 | $50 \%$ |  |  |  |  |  |  |
| 2013 | 67,919,811 | 138,241,282 | 49.1 | 30\% |  |  |  |  |  | , |
| 2014 | 66,933,598 | 138,296,016 | 48.4 | 20\% |  |  |  |  |  |  |
| 2015 | 62,149,280 | 158,912,439 | 39.1 | $\begin{array}{r} 10 \% \\ 0 \% \end{array}$ |  |  |  |  |  |  |
| 2016 | \$ 51,672,207 | \$ 163,427,314 | 31.6\% |  | $\stackrel{\star}{2}$ | $\stackrel{\imath}{2}$ | $\stackrel{n}{2}$ | $\underset{\text { arket }}{\stackrel{\rightharpoonup}{i}}$ | $\underset{\sim}{2}$ | $\stackrel{\bullet}{2}$ |

The Funded Percentage is a statistic commonly followed by Trustees. It provides an alternative measure of the Plan's current level of funding. The Funded Percentage compares the market value of assets to the value of benefits accrued as of the valuation date. Based on the market value of assets of \$51,672,207 and the total value of accumulated benefits of $\$ 163,427,314$, the Funded Percentage is $31.6 \%$ as of March 31, 2016.

The fact that the Funded Percentage is under $100 \%$ means that there are unfunded accumulated benefits when valuing the Plan on an ongoing basis. It does not necessarily imply that the Plan is underfunded on a long term basis because it makes no consideration of future contributions relative to future costs. The Margin is the best single statistic to get a sense of how well funded the Plan is on a long term basis.

Moreover, the Funded Percentage is not a measure of funding on a Plan termination basis. That would require a different interest assumption.

The Funded Percentage as per the Pension Protection Act uses the actuarial value of assets and is $36.7 \%$ as of March 31, 2016.

### 4.3.5 Actuarial Value of Assets Expressed as a \% of Market Value



The three primary measures that help an actuary assess how well funded a plan is on a long-term basis are:

1. Margin,
2. Gain/loss analysis and an assessment of assumptions, and
3. Spread, defined as the difference between the market and actuarial value of assets expressed as a percentage of the market value of assets.

The margin and assumptions were covered in earlier sections.
The third factor is the Spread statistic. When positive it represents a cushion to help offset potential future unfavorable investment experience. Conversely, when the actuarial value is greater than the market value the Spread turns negative. When this is the case future investment returns over and above the assumed return are necessary over time to restore the market value of assets equal to the actuarial value.

Currently the Spread is $-16.0 \%$.

### 4.3.6 Summary of Withdrawal Payments by Employer

Employers Continuing to Make Quarterly Payments

|  | Total <br> Payments <br> As of | Expected <br> Annual <br> Payments 2016 <br> and Beyond |
| :--- | ---: | ---: |
| Employer | 3/31/2016 | $\underline{\$ 77,338}$ |
| Center Candy | $\$ 0$ | $\underline{136,104}$ |
| YRC | $\underline{0}$ | $\$ 213,442$ |

### 4.4 Pension Protection Act

The Plan continues to be in the Red Zone as of April 1, 2016 because it has a funding deficiency. Moreover, the Plan is in Critical and Declining Status (a Red Zone category) as of 4/1/2016 due to the following:
> The Plan meets the criteria for Critical Status, and
$>$ The Plan is projected to become insolvent in the current or next 19 years and
$>$ The Plan's ratio of inactive to active participants is in excess of 2 to 1 .

The following is a history of the Plan's Zone Status under the Pension Protection Act:

| $\frac{\text { As of 4/1 }}{\text { Zone Status }}$ |  |
| :---: | :---: |
| $2008-2014$ | $\underline{\text { Critical (Red) }}$ |
| $2015-2016$ | Critical and Declining (Red) |

The Trustees have implemented a "reasonable measures" Rehabilitation Plan (RP) as per the Pension Protection Act (PPA) intended to forestall insolvency under IRC §432(e)(3)(A)(ii). The Rehabilitation Plan and important dates are as follows:

$$
\begin{array}{ll}
\text { Adoption Period: } & 4 / 01 / 2008-3 / 31 / 2011 \\
\text { Rehabilitation Period: } & 4 / 01 / 2011-3 / 31 / 2024
\end{array}
$$

## Original Rehabilitation Plan

## 1) Default Schedule

## Benefit Changes to Plan

Future accruals decreased to $1 \%$ of employer contributions
Elimination of the following adjustable benefits:

- "25-Years-and-Out"
- "20-Years-and-Out"
- Disability Retirement


## Contribution Requirements

$12.4 \%$ increases annually

## 2) Preferred Schedule

## Benefit Changes to Plan

Future accruals decreased to $1 \%$ of employer contributions
Elimination of the following adjustable benefits for participants who do not have at least 20 years of Credited Service as of April 1, 2009:

- "25-Years-and-Out"
- "20-Years-and-Out"


## Contribution Requirements

13.3\% increases annually

## 3) Alternative Schedule

Benefit Changes to Plan
None

## Contribution Requirements

Must contribute $\$ 556$ per participant per month

- The Alternative Schedule only applies to participants employed by Yellow Freight.


## Update as of April 1, 2014

## 1) Default Schedule

Benefit Changes to Prior RP
Accruals not to exceed $\$ 50$ per year of Credited Service.

Contribution Requirements
3.0\% increases annually

## 2) Preferred Schedule (Also referred to as Alternative Schedule II)

Benefit Changes to Prior RP
The monthly accrual rates per year of Credited Service for each Plan Year beginning April 1,2014 are as follows:

| Year | Accrual |
| :---: | :---: |
| 2014 | \$ 35.00 |
| 2015 | 35.65 |
| 2016 | 36.40 |
| 2017 | 37.10 |
| 2018 | \$ 38.25 |

For Plan Years beginning after March 31, 2019, the accrual increases $3 \%$ annually. In no case would accruals exceed $\$ 50$ per year of Credited Service or be less than the accrual rate in effect as of March 31, 2014.

## Contribution Requirements

The monthly contribution rates each Plan Year beginning April 1, 2014 are as follows:

| Year |  | $\underline{\text { Rate }}$ |
| :--- | ---: | ---: |
| 2014 |  | $\$ 291.61$ |
| 2015 |  | 297.44 |
| 2016 |  | 303.39 |
| 2017 |  | $\$ 309.46$ |

For Plan Years beginning on or after April l, 2018, contributions will increase 3\% per year. Notwithstanding the preceding sentence, in no event shall the contribution rate per participant determined under this updated RP, effective April l, 2014, result in a contribution rate per participant for any employer that is less than the contribution rate per participant that was in effect for such employer as of March 31, 2014.

## 3) Alternative Schedule I

Benefit Changes to Prior RP
No changes

Contribution Requirements
No changes
Update as of November 30, 2016

## 1) Default Schedule

Benefit Changes to Prior RP
No changes

## Contribution Requirements

No changes

## 2) Preferred Schedule (Also referred to as Alternative Schedule II)

Benefit Changes to Prior RP
$80 \%$ increases to the contribution rate in effect for the prior year per for each year through the Plan Year ending $3 / 31 / 2024$, beginning as of the end of the current CBA.

## Contribution Requirements

For increases not already bargained for and ratified under a current collective bargaining agreement as of the date this RP update is provided to the bargaining parties, there are no increases in contributions.

The charts below show the Plan's projected funded percentage and credit balance as of the 3/31/2016 snapshot date. These charts assume that there are no gains or losses on demographic assumptions and that the market value of assets returns the assumed rate of $6.50 \%$.



## Explanation of Why Plan is not Expected to Emerge from Critical Status

The severe economic downturn of 2008 has created a tremendous funding burden related to the investment loss and reduction in employment (future contributions). As a result, the plan sponsor determined that, based on reasonable actuarial assumptions and upon exhaustion of all reasonable measures, the plan cannot reasonably be expected to emerge from critical status by the end of the rehabilitation period.

Next the Trustees considered reasonable measures to emerge from critical status at a later time. The Trustees believed that such required contribution increases would cause employers to withdraw from the Plan leading to insolvency, financial assistance from the PBGC, and benefit cuts.

Based upon the above, the Trustees have selected the schedule of benefits described above as permitted by IRC §432(e)(3)(A)(ii), also known as a "reasonable measures" schedule, which is intended to forestall insolvency.

## 5. ASC No. 960 Disclosures

### 5.1 Present Value of Accumulated Plan Benefits

As of March 31, 2016
A. Present Value of Vested Benefits:

1. Participants currently receiving payments \$ 113,013,788
2. Other vested benefits 49,961,337
3. Subtotal vested benefits
\$ 162,975,125
B. Present Value of Non-Vested Benefits

452,189
C. Present Value of Accumulated Benefits ( $\mathrm{A}+\mathrm{B}$ )
\$ 163,427,314

The ASC No. 960 values were computed using the same assumptions as those used for determining funding requirements.

### 5.2 Reconciliation of Changes in Present Value of Accumulated Benefits

A. Present Value of Accumulated Benefits at Prior Valuation Date
\$ 158,912,439
B. Changes During the Year Due to:

1. Benefits accumulated and net gains 3,350,036
2. Benefits paid (11,704,972)
3. Assumption changes

2,538,264
4. Method changes0
5. Plan amendments 0
6. Passage of time

10,331,547
7. Total change \$4,514,875
C. Present Value of Accumulated Benefits at Current Valuation Date

## 6. Government Reporting

### 6.1 Summary of Assumptions

These are the assumptions used for the ongoing valuation calculations, unless otherwise noted.
Interest Rate $\quad 6.50 \%$ per annum
The long-term funding rate assumption is based upon expected returns for the asset classes selected under the Plan's investment policy. The expected asset returns were generated using a building block approach that includes inflation expectation and anticipated risk premiums for each asset class.

Mortality
Healthy

Disabled

Termination
Sarason T-8 Table
The termination rates are based upon historical and current demographic data, as well as future demographic expectations and professional judgment.

|  | Percent |
| :---: | :---: |
| Age | Retiring |
| 55 | $20 \%$ |
| $56-61$ | $5 \%$ |
| 62 | $25 \%$ |
| $63-64$ | $5 \%$ |
| 65 | $70 \%$ |
| 66 | $50 \%$ |
| $67+$ | $100 \%$ |

If the participant had at least 20 years of Credited Service as of April 1, 2009, there is a one-time additional retirement incidence of $60 \%$ when the participant reaches age 55 and at least 25 years of Credited Service. This additional incidence applies immediately for participants who are already age 55 with 25 years of Credited Service.

The retirement rates are based upon historical and current demographic data, as well as future demographic expectations and professional judgment.

Employment 4,997 total months annually
The future employment assumption is based upon the current Plan population, and includes input from the Plan sponsor regarding its expectation of future employment.

The marital assumption is based upon future demographic expectations and professional judgment.

Age of Spouse Females are 3 years younger than their spouses.
The expected spouse age is based upon historical and current demographic data, as well as future demographic expectations and professional judgment.

Expenses $\quad \$ 440,000$ payable at the beginning of the year
The Plan expense assumption is based upon historical expense experience, adjusted for future expense expectations.

Value of Assets Average Fair Market Value (without-phase-in). Averaging period is 3 years.
Adjusted under the Pension Relief Act of 2010 for a 10-year recognition of the 2008/2009 Plan Year loss.

Funding Method Unit Credit
Interest Rate for
6.50\% per annum

Withdrawal Liability:

RPA '94 Current
Interest: 3.23\%; Last year 3.40\% was used
Liability Assumptions

Defined Contribution Dollars

Assumption Mortality: As per IRS Regulation §1.430(h)(3)-1

The liabilities were grossed up to include the value of the defined contribution plan for certain YRCW participants. Pursuant to the audit, this amount is $\$ 112,477$ as of March 31, 2016.

Changes
The retirement assumption was change from:
Participants with 20 years of Credited Service as of April 1, 2009 are assumed to retire 3.25 years following 25 years of Credited Service for those credits accrued through March 31, 2005. The remaining credits accrued after April 1, 2005 are assumed to be payable at age 55.

Participants with fewer than 20 years of Credited Service as of April 1, 2009 are assumed to retire upon age 65 and 5 Years of Participation.

To the following table:

|  | Percent |
| :---: | :---: |
| Age | Retiring |
| 55 | $20 \%$ |
| $56-61$ | $5 \%$ |
| 62 | $25 \%$ |
| $63-64$ | $5 \%$ |
| 65 | $70 \%$ |

$$
\begin{array}{cc}
66 & 50 \% \\
67+ & 100 \%
\end{array}
$$

If the participant had at least 20 years of Credited Service as of April 1, 2009, there is a one-time additional retirement incidence of $60 \%$ when the participant reaches age 55 and at least 25 years of Credited Service. This additional incidence applies immediately for participants who are already age 55 with 25 years of Credited Service.

The future service assumption was reduced from 5,910 months per year to 4,997 months, due to an employer withdrawal.

The assumed interest rate was changed from $6.75 \%$ per year to $6.50 \%$

### 6.2 Summary of Plan Provisions

Participation
Credited Service

Vesting Credit

## Break Year

Suspension of Benefits

Prohibited
Employment
Hours Threshold

## Normal Retirement Pension

Age requirement: 65
Service requirement: Five years of Credited Service, or the fifth anniversary of participation
Amount:
(Preferred Schedule)

Immediate

| Effective |  |
| :--- | :--- |
| March 31, 2010 and prior | $\frac{\text { Definition }}{1,000 \text { hours equals one year }}$ |

April 1, 2010 and after $\quad 1 / 12^{\text {th }}$ of a year for each month or part thereof for which a contribution is obligated to be made

1,000 hours equals one year
A year with less than 501 hours worked
A member's benefit is suspended while working over the Hour Threshold while in Prohibited Employment.

Work in an industry covered by the Plan in the same geographical area covered by the Plan

40 hours per month, except as follows:

|  | Credited <br> Age | Hours <br> Service | Threshold |
| :---: | :---: | :---: | :---: |
| 50 | 25 years | 70 |  |
| 65 | 15 years | 70 |  |

## Early Retirement Pension

Age requirement 55
Service requirement 15 years of Credited Service
Amount Normal Retirement actuarially reduced, with a minimum as below.

Minimum for Participants who worked prior to January 1, 1999.

|  | YRC | Non-YRC |
| ---: | ---: | ---: |
| 55 | $\$ 800$ | $\$ 672$ |
| 56 | 877 | 737 |
| 57 | 991 | 833 |
| 58 | 1,109 | 931 |
| 59 | 1,247 | 1,048 |
| 60 | 1,380 | 1,159 |
| 61 | 1,559 | 1,309 |
| 62 | 1,751 | 1,471 |
| 63 | 1,950 | 1,638 |
| 64 | 2,200 | 1,848 |
| 65 | $\$ 2,500$ | $\$ 2,100$ |

## 25-Year Service Retirement Pension

Rehabilitation Plan: Preferred Schedule
The following was eliminated for all Participants except those with at least 20 years of Credited Service earned through April 1, 2009.

Age requirement None

Service requirement 25 years of Credited Service
Must have worked on or after January 1, 1999
Amount: $\quad$ Age Monthly Benefit
Less than 55 Benefit earned prior to 4/1/2005 unreduced
55 and older Entire benefit unreduced

The benefit payable is based on the Participant's age on the date the payment is made, not the age of retirement.

## Rehabilitation Plan: Default Schedule

Removed from Plan for all Participants not in pay status

## 20-Year Service Pension

Rehabilitation Plan: Preferred Schedule
The following was eliminated for all Participants except those with at least 20 years of Credited Service earned through April 1, 2009.

Age requirement None
Service requirement 20 years of Credited Service, with at least 20 years of Credited Service earned through April 1, 2009

Must have worked on or after January 1, 1999
Amount $\quad \$ 1,250$ per month

## Rehabilitation Plan: Default Schedule

Removed from Plan for all Participants not in pay status

## Disability Retirement Pension

## Rehabilitation Plan: Preferred Schedule

Age requirement 55
Service requirement 15 years of Credited Service
Amount Normal Retirement Pension

## Rehabilitation Plan: Default Schedule

Removed from Plan for all Participants not in pay status

## Vested Pension

Age requirement: None
Service requirement: 5 years
Amount: $\quad$ For Participants who did not work prior to January 1, 1999:
The Early Retirement Pension or Normal Retirement Pension as appropriate
For Participants with less than 15 years of Credited Service who worked prior to January 1, 1999, the greater of their actuarially reduced Early Retirement Pension, or the minimum Early Retirement Pension table above, multiplied by a fraction:

- The numerator of the fraction is the Participant's years of Credited Service
- The denominator of the fraction is 30


## Pre-retirement death

Married
Age requirement: None

Service requirement: 5 years

Amount: $\quad 100 \%$ of the benefit Participant would have received had he retired the day before he died and elected the $100 \%$ joint and survivor option. Benefits commence to beneficiary when Participant would have first been eligible to retire.

Non-Married None

## Post-retirement death

Qualified Joint \& Survivor If married, pension benefits are paid in the form of an actuarially reduced Annuity joint and survivor annuity unless this form is rejected by Participant and spouse. If rejected, or if not married, benefits are payable for the life of the Participant.

### 6.3 Recent Plan Changes

Effective
4/1/2014 (RP
update)

2/24/2009
(RP)

Plan Change
Preferred Plan

- Accruals are not to exceed $\$ 50$ per year.

Default Plan

- Accruals are not to exceed $\$ 50$ per year.

Preferred Plan

- The accrual rate was reduced to $1 \%$ of annual employer contributions.
- The 20-Year Service Pension and 25-Year Service Pension was removed for Participants who did not have 20 years of Credited Service as of April 1, 2009.

Default Plan

- The accrual rate was reduced to $1 \%$ of annual employer contributions.
- The 20-Year Service Pension and 25-Year Service Pension was removed for all Participants.
- The Disability Retirement Pension was removed for all Participants not in pay status.

3/31/2005 Effective March 31, 2005, all benefits accrued under the Plan were frozen and no additional benefits would accrue for all active participants except those employed by Yellow Freight. However, an arbitrator's decision awarded the frozen participants a $\$ 50$ per month accrual for the period April 1, 2006 to March 31, 2007 and the Trustees approved a $\$ 50$ per month accrual for the period April 1, 2007 to March 31, 2009.

### 6.4 Contribution Rates by Employer

|  | Plan Year ending 3/31/2017 |  |  |
| :---: | :---: | :---: | :---: |
|  | (a) | (b) | (c) |
|  |  |  | Expected |
|  | Expected | Monthly | Annual Conts. |
| YRC Employer | Months | Cont. Rate | (a) $\times$ (b) |
|  | 9 | \$ 317.20 | \$ 2,855 |
| Tobacco | 527 | 303.39 | 159,887 |
| Panasonic | 357 | 350.00 | 139,230 |
| IBT 805 | 29 | 390.00 | 10,150 |
| Harold Levinson Associates | 4,075 | \$ 303.39 | 1,236,314 |
| Total | 4,997 |  | \$ 1,548,536 |

Average expected monthly contribution rate (a) / (c) / 12: \$309.87

### 6.5 Funding Standard Account and Minimum Required Contributions

Rules for determining minimum required and maximum deductible contributions are set forth in IRC Sections 431 and 404 , respectively. Since deductibility may be affected by factors not considered here, the deductibility and timing of contributions should be reviewed with tax counsel.

|  | Actual | Projected |
| :---: | :---: | :---: |
| For Plan Year ending March 31: | $\underline{2016}$ | $\underline{2017}$ |
| Charges to the FSA: |  |  |
| a. Funding Deficiency | \$ 28,943,893 | \$ 36,717,078 |
| b. Normal cost | 908,193 | 896,807 |
| c. Amortization charges | 8,144,333 | 8,859,388 |
| d. Interest on a, b and c | 2,564,758 | 3,020,763 |
| e. Total charges | \$ 40,561,177 | \$ 49,494,036 |
| Credits to FSA: |  |  |
| f. Credit Balance at beginning of year | \$ 0 | \$ 0 |
| g. Employer contributions (including withdrawal payments) | 1,582,883 | 1,689,183 |
| h. Amortization credits | 2,072,902 | 2,064,939 |
| i. Interest on above | 188,314 | 183,972 |
| j. Total credits | \$ 3,844,099 | \$ 3,938,094 |
| Credit Balance at end of year | \$ (36,717,078) | \$(45,555,942) |
| Minimum Required Contribution (e-(f+h) x (1.065) ) | \$ 38,348,354 | \$47,294,876 |
| Minimum Without Regard to the Credit Balance (e - h x (1.065)) | \$38,348,354 | \$47,294,876 |

A Plan's Credit Balance represents a cumulative measure of all prior contributions (since the initial ERISA effective date) against all prior minimum requirements. If cumulative contributions exceed cumulative minimums, then the Plan will maintain a Credit Balance which can be used to offset any current year minimum requirements. As of $3 / 31 / 2016$, the Plan has a Funding Deficiency of $\$(36,717,078)$. The minimum requirement for the year ending $3 / 31 / 2017$ is $\$ 47,294,876$.

### 6.6 Maximum Deductible Contribution

A. Traditional Maximum Deductible
\$ 14,883,816
B. $140 \%$ of Projected RPA Current Liability, less Projected Actuarial Value of Assets

266,131,230
C. Minimum Required Contribution
D. Greatest of A, B, and C

47,294,876
\$ 266,131,230

The maximum allowable deduction for the fiscal year ending $3 / 31 / 2017$ is $\$ 266,131,230$. To be deductible for a given fiscal year, a contribution should be made by the time the tax return for that fiscal year is filed with the IRS (including extensions). Specific advice on the deductibility of contributions and timing should be reviewed with your tax counsel.

### 6.7 Current Liability at Beginning of Plan Year

Current liability is the present value of accrued benefits under the Plan using actuarial assumptions as prescribed by the Retirement Protection Act of 1994 (RPA '94). The liability is determined using the same assumptions used to determine the Plan's funding requirements, except for the interest rate and mortality table. These values are used for specific, prescribed purposes.

## RPA ‘94 Current Liability:

A. Assumptions:

1. Interest rate
3.23\%
2. Mortality table

As per IRS Regulation §1.430(h)(3)-1
B. RPA '94 Current Liability

1. Retirees and beneficiaries receiving payments
2. Inactive vested participants
3. Actives
4. Total

Vested Benefits
Total Benefits
\$ 142,792,445 \$ 142,792,445
40,425,695
40,425,695
43,600,361
44,339,157
\$ 226,818,501
\$ 227,557,297
C. Expected Increase in Liability
\$ 903,187
D. Expected Benefits To Be Paid During the Year
\$ 11,704,972

### 6.8 Amortization Schedule for Minimum Required Contribution

## Amortization Charges

| $\begin{array}{c}\text { Date } \\ \text { Established: }\end{array}$ | $\begin{array}{c}\text { Base Type }\end{array}$ | $\begin{array}{c}\text { Outstanding } \\ \text { Balance }\end{array}$ | $\begin{array}{c}\text { Years } \\ \text { Remaining }\end{array}$ | $\begin{array}{c}\text { Amortization } \\ \text { Amount }\end{array}$ |
| :--- | :--- | ---: | ---: | ---: |
|  | Combined and offset | $\begin{array}{l}\$ 20,743,457 \\ 2006\end{array}$ | Actuarial Loss | $4,220,388$ |$)$

## Amortization Credits

| Date Established: | Base Type | Outstanding Balance | Years <br> Remaining | Amortization Amount |
| :---: | :---: | :---: | :---: | :---: |
| 2008 | Funding Method | \$ $(630,166)$ | 2 | \$ $(325,001)$ |
| 2008 | Assumption Change | $(3,959,113)$ | 7 | $(677,813)$ |
| 2009 | Plan Amendment (RP) | $(443,876)$ | 8 | $(68,452)$ |
| 2009 | Method Change | $(2,676,578)$ | 3 | $(948,930)$ |
| 2015 | Experience Gain | $(429,525)$ | 14 | \$ $(44,743)$ |
| Total Credits |  | \$ (8,139,258) |  | \$ $(2,064,939)$ |
| Total |  | \$ 66,782,785 |  | \$ 6,794,449 |

### 6.9 Equation of Balance

A. Net Outstanding Balance of Bases
B. Credit Balance
C. Unfunded Actuarial Accrued Liability (A-B)
\$ 66,782,785
\$ $(36,717,078)$
\$ 103,499,863

## 7. Data Summary

### 7.1 Actives by Age and Credited Service

|  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  | $\underline{0-1}$ | $\frac{1-4}{15}$ | $\underline{5-9}$ | $\underline{10-14}$ | $\underline{15-19}$ | $\underline{20-24}$ | $\underline{25-29}$ | $\underline{30-34}$ | $\underline{35-39}$ | $\underline{40}$ | $\underline{\text { Total }}$ |
| 20-24 | 1 | 25 | 6 |  |  |  |  |  |  |  |  |

The average age of the actives is 46.6 and the average pension service is 11.5 years.



### 7.2 Distribution of Months Worked

| Months | Count |
| :---: | ---: |
| 1 | 3 |
| 2 | 3 |
| 3 | 4 |
| 4 | 1 |
| 5 | 6 |
| 6 | 4 |
| 7 | 3 |
| 8 | 2 |
| 9 | 1 |
| 10 | 7 |
| 11 | 3 |
| 12 | $\underline{393}$ |
|  |  |
| Total | 430 |



### 7.3 Flow of Lives

|  | Actives | Inactive Vested | Disabled | Retired \& Beneficiaries | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Beginning of year | 492 | 608 | 13 | 952 | 2,065 |
| To Inactive Vested | -12 | 12 |  |  |  |
| Terminated Non-Vested | -51 |  |  |  | -51 |
| To Retired | -10 | -24 |  | 34 |  |
| To Disabled |  |  |  |  |  |
| New Alternate Payee |  |  |  |  |  |
| Deaths |  | -1 |  | -43 | -44 |
| Returned to work |  |  |  |  |  |
| New entrants | 11 |  |  |  | 11 |
| New Beneficiaries |  |  |  | 13 | 13 |
| Data adjustments |  | 1 |  | 2 | 3 |
| End of year | 430 | 596 | 13 | 958 | 1,997 |

### 7.4 Historical Participation

| As of |  | Separated |  |  |
| :---: | :---: | :---: | :---: | :---: |
| March 31 | Active | Vested | Retired | Total |
| 2007 | 650 | 460 | 970 | 2,080 |
| 2008 | 647 | 456 | 977 | 2,080 |
| 2009 | 638 | 482 | 960 | 2,080 |
| 2010 | 583 | 508 | 963 | 2,054 |
| 2011 | 569 | 514 | 952 | 2,035 |
| 2012 | 597 | 521 | 964 | 2,082 |
| 2013 | 569 | 536 | 966 | 2,071 |
| 2014 | 588 | 544 | 960 | 2,092 |
| 2015 | 492 | 608 | 965 | 2,065 |
| 2016 | 430 | 596 | 971 | 1,997 |



### 7.5 New Pensioners

| Class | Count | Average Age | Monthly Pension |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Min | Average | Max |
| Disabled |  |  |  |  |  |
| Normal | 18 | 67.9 | \$ 150 | \$ 1,131 | \$ 3,055 |
| Early | 18 | 58.1 | $\underline{151}$ | 875 | 1,984 |
| Total | 36 | 63.0 | \$ 150 | \$ 1,003 | \$ 3,055 |
|  |  |  | Monthly Pension |  |  |
| Class | Count | Average <br> Age | Min | Average | Max |
| Survivor | 13 | 74.5 | \$ 122 | \$ 675 | \$ 1,411 |
| Alternate Payee |  |  |  |  |  |
| Total | 13 | 74.5 | \$ 122 | \$ 675 | \$ 1,411 |

### 7.6 All Pensioners

| Class | Count | Average <br> Age | Monthly Pension |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Min | Average | Max |
| Disabled | 13 | 64.6 | \$ 1,365 | \$ 1,945 | \$ 3,265 |
| Normal | 173 | 76.8 | 45 | 1,229 | 5,594 |
| Early | $\underline{617}$ | $\underline{71.3}$ | 7 | 1,043 | 3,800 |
| Subtotal | 803 | 72.4 | \$ 7 | \$ 1,098 | \$ 5,594 |
|  |  |  | Monthly Pension |  |  |
| Class | Count | Average Age | Min | Average | Max |
| Survivor | 166 | 77.8 | \$ 5 | \$ 557 | \$ 2,601 |
| Alternate Payee | $\underline{2}$ | 56.2 | $\underline{155}$ | 503 | 850 |
| Subtotal | $\underline{\underline{168}}$ | $\underline{\underline{77.6}}$ | \$5 | \$ 554 | \$ 2,601 |
| Grand Total | 971 | 73.3 | \$ 5 | \$ 1,004 | \$ 5,594 |

### 7.7 Distribution of Monthly Pensions

|  | $\begin{aligned} & \$ 0- \\ & 249 \\ & \hline \end{aligned}$ | $\begin{gathered} \$ 250- \\ \underline{499} \end{gathered}$ | $\begin{gathered} \$ 500- \\ 749 \\ \hline \end{gathered}$ | $\begin{gathered} \$ 750- \\ 999 \end{gathered}$ | $\begin{aligned} & \$ 1,000 \\ & -1,249 \\ & \hline \end{aligned}$ | $\begin{aligned} & \$ 1,250 \\ & -1,499 \\ & \hline \end{aligned}$ | $\begin{aligned} & \$ 1,500 \\ & -1,749 \\ & \hline \end{aligned}$ | $\begin{aligned} & \$ 1,750 \\ & -1,999 \\ & \hline \end{aligned}$ | $\begin{aligned} & \$ 2,000 \\ & -2,249 \\ & \hline \end{aligned}$ | $\begin{aligned} & \$ 2,250 \\ & -2,499 \\ & \hline \end{aligned}$ | $\begin{aligned} & \$ 2,500 \\ & -2,749 \\ & \hline \end{aligned}$ | $\begin{aligned} & \$ 2,750 \\ & -2,999 \end{aligned}$ | \$3,000+ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| <50 |  |  | 2 |  | 2 |  |  |  |  |  |  |  |  | 4 |
| 50-54 |  |  | 2 | 2 | 1 | 3 | 4 | 3 | 7 |  |  |  |  | 22 |
| 55-59 | 10 | 4 | 13 | 4 | 6 | 4 |  | 6 | 9 | 7 | 8 |  |  | 71 |
| 60-64 | 19 | 17 | 10 | 9 | 3 | 7 | 6 | 4 | 4 | 3 | 9 | 4 |  | 95 |
| 65-69 | 36 | 35 | 28 | 14 | 6 | 14 | 7 | 7 | 19 | 7 | 13 | 8 | 9 | 203 |
| 70-74 | 43 | 26 | 24 | 9 | 7 | 9 | 11 | 4 | 11 | 3 | 7 | 1 | 7 | 162 |
| 75-79 | 49 | 26 | 18 | 14 | 7 | 7 | 11 | 2 | 6 | 1 | 5 | 2 | 5 | 153 |
| 80-84 | 27 | 21 | 17 | 13 | 13 | 10 | 5 | 1 | 5 | 1 | 2 | 1 | 3 | 119 |
| 85-89 | 13 | 15 | 18 | 21 | 3 | 6 | 4 | 3 | 4 |  | 1 |  | 1 | 89 |
| 90-94 | 5 | 10 | 11 | 7 | 4 | 3 |  |  | 1 |  |  |  |  | 41 |
| 95-99 | 1 | 4 | 3 | 1 | 1 |  |  |  | 1 |  |  |  |  | 11 |
| 100+ |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |
| Unk. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 203 | 159 | 146 | 94 | 53 | 63 | 48 | 30 | 67 | 22 | 45 | 16 | 25 | 971 |

The average age of the retirees is 73.3 and the average pension is $\$ 1,004$.



### 7.8 Distribution of Separated/Vested Participant Accrued Monthly Pensions

|  | $\$ 0$ | $\$ 250$ | $\$ 500$ | $\$ 750$ | $\$ 1,000$ | $\$ 1,250$ | $\$ 1,500$ | $\$ 1,750$ | $\$ 2,000$ | $\$ 2,250$ |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\underline{-249}$ | $\underline{-499}$ | $\underline{-749}$ | $\underline{-999}$ | $\underline{-1,249}$ | $\underline{-1,499}$ | $\underline{-1,749}$ | $\underline{-1,999}$ | $\underline{-2,249}$ | $\underline{-2,499}$ | $\underline{2,500+}$ | $\underline{T o t a l}$ |
| $<25$ |  |  |  |  |  |  |  |  |  |  |  | 0 |
| $25-29$ | 5 | 2 |  |  |  |  |  |  |  |  |  | 7 |
| $30-34$ | 9 | 7 | 3 |  |  |  |  |  | 2 |  |  | 19 |
| $35-39$ | 8 | 25 | 17 | 7 |  |  |  |  | 2 |  |  | 59 |
| $40-44$ | 4 | 33 | 20 | 9 | 1 |  |  |  | 5 |  |  |  |
| $45-49$ | 11 | 33 | 19 | 16 | 2 |  |  |  | 8 |  |  | 72 |
| $50-54$ | 26 | 18 | 21 | 34 | 12 | 3 |  |  | 7 | 1 |  | 122 |
| $55-59$ | 21 | 29 | 18 | 15 | 5 | 1 |  |  | 15 |  | 1 | 105 |
| $60-64$ | 26 | 20 | 9 | 9 | 5 | 4 | 1 |  | 2 |  |  | 76 |
| $65-69$ | 9 | 9 | 4 | 1 | 1 |  |  |  |  |  |  | 24 |
| $70-74$ | 11 | 4 |  | 1 | 1 |  |  |  |  |  |  | 17 |
| $75+$ | 3 | 1 | 1 | 1 |  |  |  |  |  |  |  | 6 |
| Total | 133 | 181 | 112 | 93 | 27 | 8 | 1 | 0 | 39 | 1 | 1 | 596 |

The average age of the separated vested is 51.6 and the average accrued benefit is $\$ 614$.



