

April 17, 2015

Ms. Kim Free
Pension Plan Administrator
Utility Board of the City of Key West
1001 James Street
Key West, Florida 33040-6935

Re: January 1, 2015 Actuarial Valuation

Dear Kim:

As requested, we are pleased to enclose two (2) copies of the January 1, 2015 Actuarial Valuation Report for the Retirement System for General Employees of the Utility Board of the City of Key West.

We appreciate the opportunity to work with the Board on this important project. We look forward to presenting the key financial results of our Valuation at an upcoming Pension Board Meeting.

As you are aware, a copy of the Report should be filed with the State at the following address upon approval by the Pension Board.

Mr. Douglas E. Beckendorf, A.S.A.
Actuary
Florida Division of Retirement
Post Office Box 9000
Tallahassee, Florida 32315-9000

If you should have any questions concerning the above, please do not hesitate to contact us.

Sincerest regards,



Lawrence F. Wilson, A.S.A.
Senior Consultant and Actuary

Enclosures

cc: Mr. Harry L. Bethel, Chairman



**RETIREMENT SYSTEM FOR GENERAL EMPLOYEES OF THE UTILITY
BOARD OF THE CITY OF KEY WEST**

ACTUARIAL VALUATION AS OF JANUARY 1, 2015

This Valuation Determines the Annual Contribution for the Plan Year January 1, 2015 through December 31, 2015
to be Paid in the Calendar Year Ending December 31, 2015

April 17, 2015

**Retirement System for General Employees of the
Utility Board of the City of Key West**

TABLE OF CONTENTS

	<u>Page</u>
Commentary	1
I. Summary of Retirement Plan Costs	5
II. Comparison of Cost Data of Current and Prior Valuations	8
III. Characteristics of Participants in Actuarial Valuation	9
IV. Statement of Assets	10
V. Reconciliation of Plan Assets.....	11
VI. Actuarial Gains / (Losses) for Plan Year	13
VII. Amortization of Unfunded Actuarial Accrued Liability	14
VIII. Accounting Disclosure Exhibit	15
IX. Outline of Principal Provisions of the Retirement Plan	25
X. Actuarial Assumptions and Actuarial Cost Methods Used.....	29
XI. Reconciliation of Plan Participants	33
XII. Distribution of Plan Participants by Attained Age Groups and Service Groups.....	34
XIII. Statistics for Participants Entitled to Deferred Benefits and Participants Receiving Benefits	35
XIV. Review of Compensation, Termination and Investment Return Experience	36
XV. Utility Board Contribution Information	37
XVI. State Required Exhibit	38



April 17, 2015

Board of Trustees
c/o Mr. Jack Wetzler
Assistant General Manager & C.F.O.
Utility Board of the City of Key West
Post Office Drawer 6100
Key West, Florida 33040

Re: Retirement System for General Employees of the Utility Board of the City of Key West

Dear Trustees:

We are pleased to present our January 1, 2015 Actuarial Valuation for the Retirement System for General Employees of the Utility Board of the City of Key West (*System*). The purpose of this report is to indicate appropriate contribution levels, comment on the actuarial stability of the System and to satisfy State requirements. Gabriel, Roeder, Smith & Company (*GRS*), as System actuary, is authorized by the Board of Trustees to prepare an annual actuarial valuation under Section 8.04(f) of the System.

This report consists of this commentary, detailed Tables I through XV, and the State Required Exhibit on Table XVI. The Tables contain basic System cost figures plus significant details on the benefits, liabilities and experience of the System. We suggest you thoroughly review the report at your convenience and contact us with any questions that may arise.

Pension Plan Costs

The minimum payment consists of payment of annual normal costs and amortization of the components of the unfunded actuarial accrued liability over various periods as prescribed by law. The minimum payment for fiscal year ending December 31, 2015 is **39.2% (\$3,546,806)** of covered payroll. The figure in parentheses is the System cost expressed as the percentage of covered annual payroll applied to projected covered payroll as of January 1, 2015 (\$9,046,826).

Changes in Actuarial Assumptions, Methods and System Benefits

The System provisions remain unchanged from the System provisions considered for the January 1, 2014 Actuarial Valuation. System benefits are summarized on Table IX.

Charge (positive) and credit (negative) amortization bases have been separately combined as provided under Internal Revenue Service Regulation 1.412(b)-1.

The actuarial assumptions and methods are unchanged from the January 1, 2014 Actuarial Valuation. The actuarial assumptions and methods are outlined on Table X.

Government Accounting Standards Board Statement Number 68 (GASB No. 68) expense and projected disclosures are included. GASB No. 67 information is *trued-up* as of December 31, 2014.

Comparison of January 1, 2013 and January 1, 2014 Valuation Results

Table II of our report provides information of a comparative nature. The right columns of the Table indicate the costs as calculated for January 1, 2014. The left columns indicate the costs as calculated for January 1, 2015.

Comparing the right and left columns of Table II shows the effect of System experience during the year. The number of active participants decreased by approximately 3% while covered payroll decreased by approximately 2%. The total normal cost decreased both as a percentage of covered payroll and as a dollar amount. The unfunded actuarial accrued liability also decreased both as a percentage of covered payroll and as a dollar amount. The minimum funding requirement remained level as a percentage of covered payroll but decreased as a dollar amount.

The present value of vested accrued benefits exceeds the market value of System assets. The Vested Benefit Security Ratio is 86.4%. This is a decrease from 87.4% as of January 1, 2014.

Actuarial Gains (Losses)

The System experienced an actuarial gain of **\$2,458,881** for 2014. Our Actuarial Valuation report tracks the actual experience in three areas that are very significant in determining whether a gain or loss occurs. Table XIV presents compensation experience, tracks employee turnover and provides information on investment returns.

Table XIV provides statistics on increases in pay enjoyed by active System Members. During 2014 pay increases to active Members averaged 2.3%. Pay increases were less than the average pay increase assumption of 5.6%. This suggests pay increases were generally a source of actuarial gain this year. The three, five and ten-year average annual pay increases are 3.1%, 3.2% and 5.9%, respectively.

In addition, Table XIV provides statistics for active System Members terminating service in comparison to the number of active System Members who were assumed to terminate under the withdrawal assumptions. Member turnover was 120% of expected turnover during 2014. This suggests employee turnover was generally an additional source of actuarial gain this year. Three, five and ten-year average termination experience is 80%, 80% and 100% of expected turnover, respectively.

Table XIV also provides comparative statistics on the investment experience for the System. During 2014, the System experienced a smoothed actuarial value return of approximately 10.5%. This return

was more than the 7.5% anticipated rate of return. Investment return was a significant source of actuarial gain this year. The average smoothed actuarial value rate of return over the last three, five and ten-years is 8.9%, 6.6% and 5.5%, respectively. The corresponding one, three, five and ten-year average market value rates of return are 5.1%, 13.0%, 10.2% and 6.4%, respectively.

Member Census and Financial Data

The Utility Board submitted the Member census data as of January 1, 2015 used for this valuation to us. This information contains name, Social Security number, date of birth, date of hire, current rate of pay and actual salary paid in 2014. Dates of termination and retirement are provided where applicable. The Utility Board updated information on inactive participants including retirees, beneficiaries and vested terminees. Name, Social Security number and January 1, 2015 monthly benefit payment were provided for these members.

The Utility Board also supplied information on the assets of the System as of December 31, 2014.

We do not audit the Member census data and asset information that is provided to us. However, we perform certain reasonableness checks and on this basis we believe that the information that we received is reliable.

Summary

In our opinion the benefits currently provided for under the System will be sufficiently funded through the payment of the amount as indicated in this and future Actuarial Valuation reports. We will continue to update you on the future payment requirements for the System through our actuarial reports. These reports will also continue to monitor the future experience of the System.

The actuarial assumptions used in this Actuarial Valuation are as adopted by the Board of Trustees. The demographic actuarial assumptions are based on the results of an actuarial experience study for the five period ended December 31, 2012. Each assumption represents an estimate of future System experience.

If all actuarial assumptions are met and if all future minimum required contributions are paid, System assets will be sufficient to pay all System benefits. System minimum required contributions are determined in compliance with the requirements of the Florida Protection of Public Employee Retirement Benefits Act with normal cost determined as a level percent of covered payroll and a level percent amortization payment using an initial amortization period of 30 years.

The VSBR may be appropriate for assessing the sufficiency of System assets to meet the estimated cost of settling benefit obligations based upon funding assumptions but may not be appropriate for assessing the need for or the amount of future contributions.

The GASB Plan Fiduciary Net Position as a Percentage of Total Pension Liability may not be appropriate for assessing the sufficiency of System assets to meet the estimated cost of settling benefit obligations but may be appropriate for assessing the need for or the amount of future contributions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: System 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); and changes in System provisions or applicable law. Due to the limited scope of the actuary's assignment, the actuary did not perform an analysis of the potential range of such future measurements.

This report should not be relied on for any purpose other than the purpose described in the primary communication. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the System as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.

This report may be provided to parties other than the Board only in its entirety and only with the permission of an approved representative of the Board.

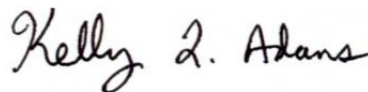
The signing actuaries are independent of the System and Utility Board.

The undersigned are Members of the American Academy of Actuaries and meet the qualification standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. We are available to respond to any questions with regards to matters covered in this report.

Very truly yours,



Lawrence F. Wilson, A.S.A.
Senior Consultant and Actuary



Kelly L. Adams, A.S.A.
Consultant and Actuary

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Summary of Retirement Plan Costs

	Hired after May 31, 2010 January 1, 2015		Hired before June 1, 2010 January 1, 2015		Total January 1, 2015		Total January 1, 2014	
	<u>Cost</u>	<u>% of</u>	<u>Cost</u>	<u>% of</u>	<u>Cost</u>	<u>% of</u>	<u>Cost</u>	<u>% of</u>
	<u>Data</u>	<u>Payroll</u>	<u>Data</u>	<u>Payroll</u>	<u>Data</u>	<u>Payroll</u>	<u>Data</u>	<u>Payroll</u>
A. Participant Data Summary (Table III)								
1. Active Employees	15	N/A	111	N/A	126	N/A	130	N/A
2. Terminated Vested	0	N/A	25	N/A	25	N/A	26	N/A
3. Receiving Benefits	0	N/A	176	N/A	176	N/A	170	N/A
4. Total Participants	15	N/A	312	N/A	327	N/A	326	N/A
5. Annual Payroll of Active Employees	\$ 847,868	100.0%	\$ 8,198,958	100.0%	\$ 9,046,826	100.0%	\$ 9,226,528	100.0%
B. Total Normal Costs								
1. Age Retirement Benefits	\$ 76,854	9.1%	\$ 1,260,492	15.4%	\$ 1,337,346	14.8%	\$ 1,400,553	15.2%
2. Deferred Vesting Benefits	7,585	0.9%	144,266	1.8%	151,851	1.7%	157,639	1.7%
3. Death Benefits	4,244	0.5%	52,334	0.6%	56,578	0.6%	59,497	0.6%
4. Disability Benefits	3,243	0.4%	66,548	0.8%	69,791	0.8%	71,235	0.8%
5. Subtotal*	\$ 91,926	10.8%	\$ 1,523,640	18.6%	\$ 1,615,566	17.9%	\$ 1,688,924	18.3%
6. Expenses	N/A		N/A		80,934	0.9%	67,103	0.7%
7. Total Annual Normal Costs	N/A		N/A		\$ 1,696,500	18.8%	\$ 1,756,027	19.0%

* Net of expenses

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Summary of Retirement Plan Costs

	January 1, 2015		January 1, 2014	
	<u>Cost</u>	<u>% of</u>	<u>Cost</u>	<u>% of</u>
	<u>Data</u>	<u>Payroll</u>	<u>Data</u>	<u>Payroll</u>
C. Total Actuarial Accrued Liability				
1. Age Retirement Benefits Active Employees	\$ 37,048,577	409.5%	\$ 38,156,392	413.6%
2. Deferred Vested Benefits Active Employees	121,887	1.3%	119,217	1.3%
3. Death Benefits Active Employees	341,846	3.8%	338,979	3.7%
4. Disability Benefits Active Employees	857,405	9.5%	833,997	9.0%
5. Retired or Terminated Vested Participants Receiving Benefits	53,006,384	585.9%	48,205,877	522.5%
6. Terminated Vested Participants Entitled to Future Benefits	1,668,751	18.4%	1,822,158	19.7%
7. Deceased Participants Whose Beneficiaries are Receiving Benefits	5,979,877	66.1%	5,448,058	59.0%
8. Disabled Participants Receiving Benefits	1,921,815	21.2%	2,172,566	23.5%
9. Total Actuarial Accrued Liability	\$100,946,542	1115.8%	\$ 97,097,244	1052.4%
D. Market Value of Assets (Table IV)	\$ 79,365,980	877.3%	\$ 76,694,383	831.2%
E. Smoothed Actuarial Value of Assets (Table V)	\$ 75,345,754	832.8%	\$ 69,362,352	751.8%
F. Unfunded Actuarial Accrued Liability (C-E)	\$ 25,600,788	283.0%	\$ 27,734,892	300.6%
G. Minimum Required Contribution				
1. Total Normal Cost	\$ 1,696,500	18.8%	\$ 1,756,027	19.0%
2. Amortization of Unfunded Liability	1,722,108	19.0%	1,728,259	18.7%
3. Interest Adjustment	128,198	1.4%	130,661	1.4%
4. Total Payment	\$ 3,546,806	39.2%	\$ 3,614,947	39.2%
H. Actuarial Gains (Losses) (Table VI)	\$ 2,458,881	27.2%	\$ 3,397,417	36.8%

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Summary of Retirement Plan Costs

	January 1, 2015		January 1, 2014	
	Cost	% of	Cost	% of
	<u>Data</u>	<u>Payroll</u>	<u>Data</u>	<u>Payroll</u>
I. Actuarial Present Value of Vested Accrued Benefits				
1. Retired, Terminated Vested, Beneficiaries, Disabled Receiving Benefits	\$ 60,908,076	673.3%	\$ 55,826,501	605.1%
2. Terminated Vested Participants Entitled to Future Benefits	1,668,751	18.4%	1,822,158	19.7%
3. Active Participants Entitled to Future Benefits	29,233,288	323.1%	30,130,646	326.6%
4. Total Actuarial Present Value of Vested Accrued Benefits	\$ 91,810,115	1014.8%	\$ 87,779,305	951.4%
J. Unfunded Actuarial Present Value of Vested Accrued Benefits (I.4 - D., not less than zero)	\$ 12,444,135	137.6%	\$ 11,084,922	120.1%
K. Vested Benefit Security Ratio (D. ÷ I.4.)	86.4%	N/A	87.4%	N/A

Table II

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Comparison of Cost Data of January 1, 2014 and January 1, 2015 Valuations

	January 1, 2015		January 1, 2014	
	Cost Data	% of Annual Compensation	Cost Data	% of Annual Compensation
A. Participants				
1. Active Employees	126	N/A	130	N/A
2. Terminated Vested	25	N/A	26	N/A
3. Receiving Benefits	176	N/A	170	N/A
4. Annual Payroll of Active Employees	\$ 9,046,826	100.0%	\$ 9,226,528	100.0%
B. Total Normal Costs	\$ 1,696,500	18.8%	\$ 1,756,027	19.0%
C. Total Actuarial Accrued Liability	\$ 100,946,542	1115.8%	\$ 97,097,244	1052.4%
D. Smoothed Actuarial Value of Assets	\$ 75,345,754	832.8%	\$ 69,362,352	751.8%
E. Unfunded Actuarial Accrued Liability	\$ 25,600,788	283.0%	\$ 27,734,892	300.6%
F. Net Minimum Funding Payment	\$ 3,546,806	39.2%	\$ 3,614,947	39.2%
G. Actuarial Gain (Loss)	\$ 2,458,881	27.2%	\$ 3,397,417	36.8%
H. Unfunded Actuarial Present Value of Vested Accrued Benefits	\$ 12,444,135	137.6%	\$ 11,084,922	120.1%
I. Vested Benefit Security Ratio	86.4%	N/A	87.4%	N/A

Table III

**Retirement System for General Employees of
the Utility Board of the City of Key West**

**Characteristics of Participants in
Actuarial Valuation as of January 1, 2015**

A. Active Plan Participants Summary

1. Active participants as of beginning of prior year	130
2. New entrants during prior year	5
3. Exits during prior year	(9)
4. Active participants as of beginning of year	126
5. Active participants fully vested	71
6. Active participants partially vested	39
7. Active participants non-vested	16
8. Annual payroll of active participants	\$ 9,046,826
9. Average pay	\$ 71,800
10. Average hire age	31.88 years
11. Average attained age	45.91 years
12. Percent female	34.9%

B. Characteristics of Inactive Participants

1. Inactives as of beginning of prior year	196
2. Newly inactive during prior year	11
3. Exits during prior year	(6)
4. Inactives as of beginning of year	201
5. Age retirees	143
6. Projected annual benefits for age retirees	\$ 4,333,814
7. Beneficiaries of deceased participants	24
8. Projected annual benefits for beneficiaries	\$ 509,054
9. Disabled participants receiving benefits	9
10. Projected annual benefits for disabled participants	\$ 187,201
11. Terminated vested due deferred benefits	25
12. Projected annual benefits for terminated vested participants	\$ 200,909

Table IV

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Statement of Assets as of January 1, 2015 *

<u>Assets</u>	<u>Market Value</u>
<u>Investments at Market Value</u>	
Cash and Cash Equivalents	\$ 1,364,424
Bonds and Notes	7,115,259
Mortgage Backed Securities	6,595,950
Mutual Funds	
- Vanguard Domestic Stock Mutual Fund	7,293,690
- Vanguard International Stock Mutual Fund	4,359,623
- Global Bond Mutual Fund	3,670,640
International Equities	5,046,622
Common Stocks	36,634,690
Real Estate	7,077,323
Total Investments	<u>\$ 79,158,221</u>
<u>Receivables</u>	
Accrued Interest	\$ 109,391
Pending Trades	317,980
Utility Board Contributions	7,013
Miscellaneous	390
Total Receivables	<u>\$ 434,774</u>
<u>Other - Prepaid Benefits and Expenses</u>	<u>\$ 389,044</u>
<u>Liabilities</u>	
Accrued Benefits and Expenses	\$ 107,583
Pending Trades	508,476
Total Liabilities	<u>\$ 616,059</u>
<u>Net Assets Available For Benefits</u>	<u>\$ 79,365,980</u>

* As reported on financial statements prepared by the Utility Board.

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Reconciliation of Plan Assets*

A. <u>Market Value of Assets as of January 1, 2014</u>	\$	76,694,383
B. <u>Receipts During Year</u>		
1. Utility Board contributions	\$	3,511,645
2. Interest, dividends and other		
(a) Dividends, interest and other	\$	1,933,769
(b) Investment fees		531,488
(c) Net dividends, interest and other [(a)-(b)]	\$	1,402,281
3. Net appreciation / (depreciation)		2,507,023
4. Net receipts during year	\$	7,420,949
C. <u>Disbursements During Year</u>		
1. Pension benefit payments	\$	4,673,833
2. Contribution refunds		0
3. Administrative expenses paid		75,519
4. Total disbursements during year	\$	4,749,352
D. <u>Market Value of Assets as of December 31, 2014</u>	\$	79,365,980

* As reported on financial statements prepared by the Utility Board.

Retirement System for General Employees of
the Utility Board of the City of Key West

Development of Smoothed Actuarial Value of Assets as of December 31

	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
A. Preliminary smoothed actuarial value from prior year	\$ 62,826,701	\$ 69,362,352	\$ 75,345,754			
B. Market value end of year	76,694,383	79,365,980				
C. Market value beginning of year	64,668,829	76,694,383	79,365,980			
D. Non-investment net cash flow	(1,400,348)	(1,237,707)				
E. Investment return						
1. Total market value return: B. - C. - D.	13,425,902	3,909,304				
2. Amount for immediate recognition (7.5%) *	5,117,492	5,705,665				
3. Amount for phased-in recognition: E.1. - E.2.	8,308,410	(1,796,361)				
F. Phased-in recognition of investment return						
1. Current year: 20% of E.3.	1,661,682	(359,272)				
2. First prior year	633,734	1,661,682	(359,272)			
3. Second prior year	(795,197)	633,734	1,661,682	(359,272)		
4. Third prior year	374,498	(795,197)	633,734	1,661,682	(359,272)	
5. Fourth prior year	943,790	374,497	(795,199)	633,734	1,661,682	(359,273)
6. Total phased-in recognition of investment return	<u>2,818,507</u>	<u>1,515,444</u>	<u>1,140,945</u>	<u>1,936,144</u>	<u>1,302,410</u>	<u>(359,273)</u>
G. Smoothed actuarial value end of year						
1. Preliminary smoothed actuarial value end of year:						
A. + D. + E.2. + F.6.	69,362,352	75,345,754				
2. Upper corridor limit: 120% of B.	92,033,260	95,239,176				
3. Lower corridor limit: 80% of B.	61,355,506	63,492,784				
4. Smoothed actuarial value end of year:						
G.1., not more than G.2., nor less than G.3.	69,362,352	75,345,754				
H. Difference between market value and smoothed actuarial value	7,332,031	4,020,226				
I. Smoothed actuarial value rate of return	12.8%	10.5%				
J. Market value rate of return	21.0%	5.1%				

* 8.0% for 2013

Table VI

**Retirement System for General Employees of
the Utility Board of the City of Key West**

**Actuarial Gains / (Losses) for
Plan Year Ended December 31, 2014**

A. Derivation of Actuarial Gain / (Loss)

1. Normal cost previous valuation	\$ 1,756,027
2. Unfunded actuarial accrued liability previous valuation	27,734,892
3. Utility Board contributions	3,511,645
4. Interest on:	
(a) Normal cost	\$ 131,702
(b) Unfunded actuarial accrued liability	2,080,117
(c) Utility Board contributions	131,424
(d) Net total: (a) + (b) - (c)	\$ 2,080,395
5. Expected unfunded actuarial accrued liability current year: (1. + 2. - 3. + 4.)	\$ 28,059,669
6. Actual unfunded actuarial accrued liability current year	25,600,788
7. Actuarial gain / (loss): (5. - 6.)	\$ 2,458,881

B. Approximate Portion of Gain / (Loss)
due to Investments

1. Smoothed actuarial value of assets previous year	\$ 69,362,352
2. Contributions during year	3,511,645
3. Benefits and administrative expenses during year	4,749,352
4. Expected appreciation for period	5,155,500
5. Expected smoothed actuarial value of assets current year: (1. + 2. - 3. + 4.)	\$ 73,280,145
6. Actual smoothed actuarial value of assets current year	\$ 75,345,754
7. Approximate gain / (loss) due to investments: (6. - 5.)	\$ 2,065,609

C. Approximate Portion of Gain / (Loss)
due to Liabilities: A.7. - B.7.

\$ 393,272

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Amortization of Unfunded Actuarial Accrued Liability

A. Amortization of Unfunded Accrued Liability

<u>Date</u>	<u>Unfunded Liability</u>	<u>Amortization Payment</u>
January 1, 2015	\$ 25,600,788	\$ 1,722,108
January 1, 2016	\$ 25,669,579	\$ 1,721,480
January 1, 2017	\$ 25,744,209	\$ 1,767,959
January 1, 2018	\$ 25,774,464	\$ 1,860,830
January 1, 2019	\$ 25,707,156	\$ 1,911,073
...		
...		
January 1, 2045	\$ 0	\$ 0

B. Covered Payroll History

<u>Date</u>	<u>Covered Payroll</u>	<u>Annual Increase</u>
January 1, 2015	\$ 9,046,826	(1.9%)
January 1, 2014	\$ 9,226,528	(3.5%)
January 1, 2013	\$ 9,558,105	(1.1%)
January 1, 2012	\$ 9,667,272	(3.4%)
January 1, 2011	\$ 10,005,398	(0.2%)
January 1, 2010	\$ 10,024,867	2.5%
January 1, 2009	\$ 9,782,010	6.3%
January 1, 2008	\$ 9,202,549	10.3%
January 1, 2007	\$ 8,343,673	9.2%
January 1, 2006	\$ 7,644,008	10.2%
January 1, 2005	\$ 6,933,885	N/A
Ten-Year Average Annual Increase		2.7%

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Accounting Disclosure Exhibit

	01/01/2015	01/01/2014
I. <u>Number of Plan Members</u>		
1. Retirees and beneficiaries receiving benefits	176	170
2. Terminated System members entitled to but not yet receiving benefits	25	26
3. Active Plan members	126	130
4. Total	327	326
II. <u>Financial Accounting Standards Board Allocation</u>		
<u>As of January 1, 2015</u>		
A. <u>Statement of Accumulated Plan Benefits</u>		
1. Actuarial present value of accumulated vested Plan benefits		
a. Participants currently receiving benefits	\$ 60,908,076	\$ 55,826,501
b. Other participants	30,902,039	31,952,804
c. Total	\$ 91,810,115	\$ 87,779,305
2. Actuarial present value of accumulated non-vested Plan benefits	\$ 1,178,863	\$ 1,376,780
3. Total actuarial present value of accumulated Plan benefits	\$ 92,988,978	\$ 89,156,085
B. <u>Statement of Change in Accumulated Plan Benefits</u>		
1. Actuarial present value of accumulated Plan benefits as of January 1, 2014	\$ 89,156,085	
2. Increase (decrease) during year attributable to:		
a. Plan amendment	\$ 0	
b. Change in actuarial assumptions	0	
c. Benefits paid	(4,673,833)	
d. Other, including benefits accumulated, increase for interest due to decrease in the discount period	8,506,726	
e. Net increase	\$ 3,832,893	
3. Actuarial present value of accumulated Plan benefits as of January 1, 2015	\$ 92,988,978	
C. <u>Significant Matters Affecting Calculations</u>		
1. Assumed rate of return used in determining actuarial present values	7.5%	
2. Change in Plan provisions	None.	
3. Change in actuarial assumptions	None.	

**Table VIII
(Cont'd)**

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Accounting Disclosure Exhibit

III. Net Pension Liability and Related Ratios (GASB No. 67 & No. 68)

Measurement date	<u>Projected 12/31/2015*</u>	<u>Actual 12/31/2014</u>
A. <u>Total Pension Liability</u>		
Service Cost	\$ 1,615,566	\$ 1,688,924
Interest	7,500,304	7,233,694
Benefit Changes	0	0
Difference Between Actual and Expected Experience	(399,487)	(552,616)
Assumption Changes	0	3,883,996
Benefit Payments, including Refunds of Member Contributions	<u>(5,116,122)</u>	<u>(4,673,833)</u>
Net Change in Total Pension Liability	3,600,261	7,580,165
Total Pension Liability (TPL) - (beginning of year)	<u>101,346,029</u>	<u>93,765,864</u>
Total Pension Liability (TPL) - (end of year)	<u><u>\$ 104,946,290</u></u>	<u><u>\$ 101,346,029</u></u>
B. <u>Plan Fiduciary Net Position</u>		
Contributions - Plan Sponsor	\$ 3,546,806	\$ 3,511,645
Contributions - Member	0	0
Net Investment Income	5,890,564	3,909,304
Benefit Payments, including Refunds of Member Contributions	(5,116,122)	(4,673,833)
Administrative Expenses	(80,934)	(75,519)
Other	<u>0</u>	<u>0</u>
Net Change in Plan Fiduciary Net Position	4,240,314	\$ 2,671,597
Plan Fiduciary Net Position - (beginning of year)	<u>79,365,980</u>	<u>76,694,383</u>
Plan Fiduciary Net Position - (end of year)	<u><u>\$ 83,606,294</u></u>	<u><u>\$ 79,365,980</u></u>
C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u>	\$ 21,339,996	\$ 21,980,049
D. <u>Plan Fiduciary Net Position as a Percentage of TPL: (B) / (A)</u>	79.67 %	78.31 %
E. <u>Covered Employee Payroll</u>	\$ 9,046,826	\$ 8,958,281
F. <u>NPL as a Percentage of Covered Employee Payroll: (C) / (E)</u>	235.88 %	245.36 %
G. <u>Notes to Schedule:</u>		
Valuation Date	01/01/2015	01/01/2014
Update procedures used to roll forward TPL to the measurement dates.		
No benefit changes during 2014 or 2015.		
See Table VIII, Item VI for assumption changes for 2014. No assumption changes for 2015.		

* Projected - actual amounts will be available after fiscal year end

**Table VIII
(Cont'd)**

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Accounting Disclosure Exhibit

IV. Schedule of Employer Contributions (GASB No. 67)

<u>Fiscal Year Ended 12/31</u>	<u>Actuarially Determined Contribution</u>	<u>Actual Contribution</u>	<u>Contribution Deficiency (Excess)</u>	<u>Covered Payroll</u>	<u>Actual Contribution as a % of Covered Payroll</u>
2005	\$ 2,014,613	\$ 2,014,613	\$ 0	\$ 7,089,604	28.42%
2006	2,208,905	2,208,905	0	7,706,973	28.66%
2007	2,462,847	2,462,847	0	8,538,661	28.84%
2008	2,537,303	2,537,303	0	9,104,074	27.87%
2009	3,318,721	3,318,721	0	9,790,423	33.90%
2010	3,045,252	3,103,795	(58,543)	9,729,240	31.90%
2011	3,174,884	3,174,884	0	9,562,205	33.20%
2012	3,356,361	3,356,361	0	9,312,610	36.04%
2013	3,628,209	3,628,209	0	9,162,598	39.60%
2014	3,511,645	3,511,645	0	8,958,281	39.20%
2015*	3,546,806	3,546,806	0	9,046,826	39.20%

* Projected - actual amounts will be available after fiscal year end

**Table VIII
(Cont'd)**

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Accounting Disclosure Exhibit

V. Schedule of Employer Contributions (GASB No. 68)

<u>Fiscal Year End 9/30</u>	<u>Actuarially Determined Contribution</u>	<u>Actual Contribution</u>	<u>Contribution Deficiency (Excess)</u>	<u>Covered Payroll¹</u>	<u>Actual Contribution as a % of Covered Payroll</u>
2006	\$ 2,160,332	\$ 2,160,332	\$ 0	\$ 7,552,631	28.60%
2007	2,399,362	2,399,362	0	8,330,739	28.80%
2008	2,518,689	2,518,689	0	8,962,721	28.10%
2009	3,123,367	3,123,367	0	9,618,836	32.47%
2010	3,113,619	3,172,162	(58,543)	9,744,536	32.55%
2011	3,142,476	3,142,476	0	9,603,964	32.72%
2012	3,310,992	3,310,992	0	9,375,009	35.32%
2013	3,560,247	3,560,247	0	9,200,101	38.70%
2014	3,540,786	3,540,786	0	9,009,360	39.30%
2015 ²	3,538,016	3,538,016	0	9,024,690	39.20%

¹ Based on prorated calendar year pay prior to fiscal year ended September 30, 2015

² Projected - actual amounts will be available after fiscal year end

Retirement System for General Employees of
the Utility Board of the City of Key West

Accounting Disclosure Exhibit

VI. Notes to Schedule of Contributions (GASB No. 67 & No. 68)

Valuation Date: Actuarially determined contributions are calculated using a valuation date as of the beginning of the plan year (each January 1st).

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method	Entry Age
Amortization Method	Level Percentage of Pay, Closed
Amortization Period	30 years
Asset Valuation Method	5-year smoothed market
Inflation	3.0%
Salary Increases	4.5% - 10.0%
Investment Rate of Return	7.5%
Payroll Growth Assumption	3.0% per year, but limited to average annual increase over most recent ten years (2.7%).
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition
Mortality	For healthy participants, the RP 2000 Mortality Table was used, with separate rates for males and females and for annuitants and non-annuitants, projected with full generational mortality improvements with Scale AA. For disabled participants, the RP 2000 Disabled Mortality Table was used, with separate rates for males and females, projected with full generational mortality improvements with Scale AA.
Cost-of-Living Increases	3.0%

Other Information:

Benefit Changes

2011: New benefit structure added for employees hired on or after June 1, 2010 including career average earnings and 2.0% multiplier. 2009: Normal retirement eligibility updated to attainment of age 60 and completion of 10 years of credited service from attainment of age 60 if member enters Plan after November 13, 2008; pre-retirement death benefit for child beneficiaries end date extended from 21 years of age to 25 years of age provided the child is a full-time student in college or disabled under Social Security; actuarially equivalent joint and survivor with pop-up optional form of payment added. 2007: Service required for eligibility for disability benefits increased from 5 years of credited service to 10 years of credited service. 2005: Retiree benefits were adjusted to reflect corrected prior benefit improvement amounts.

Retirement System for General Employees of
the Utility Board of the City of Key West

Accounting Disclosure Exhibit

VI. Notes to Schedule of Contributions (GASB No. 67 & No. 68) (continued)

Assumption Changes

2014: Investment return updated from 8.0% to 7.5%; withdrawal, salary increase and retirement rates updated. 2009: Mortality, withdrawal, salary increase and retirement rates updated; assumption for child beneficiaries added for pre-retirement death benefits. 2006: Payroll growth assumption added.

VII. Discount Rate (GASB No. 67 & No. 68)

A discount rate of 7.5% was used to measure the TPL. This discount rate was based on the expected rate of return on System investments of 7.5%. The projection of cash flows used to determine this discount rate assumed member contributions will be made at the current contribution rate and employer contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current System members. Therefore, the long-term expected rate of return on System investments was applied to all periods of projected benefit payments to determine the TPL.

VIII. Sensitivity of the NPL to the Discount Rate Assumption (GASB No. 67 & No. 68)

Measurement date: 12/31/2014

	1% Decrease	Current Discount Rate	1% Increase
Discount Rate	6.50%	7.50%	8.50%
NPL	\$ 34,646,761	\$ 21,980,049	\$ 11,474,507

Measurement date: 12/31/2015 *

	1% Decrease	Current Discount Rate	1% Increase
Discount Rate	6.50%	7.50%	8.50%
NPL	\$ 34,390,800	\$ 21,339,996	\$ 10,517,454

* Projected - actual amounts will be available after fiscal year end

Retirement System for General Employees of
the Utility Board of the City of Key West

Accounting Disclosure Exhibit

IX. Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions (GASB No. 68)

Pension Expense for Fiscal Year Ending September 30, 2015: \$ 4,661,253

Summary of Outstanding Deferred Inflows and Outflows of Resources as of September 30, 2015

	<u>Deferred Outflows of Resources</u>	<u>Deferred Inflows of Resources</u>
Differences between actual and expected experience on liabilities	\$ 0	\$ 385,157
Changes of assumptions or other inputs	2,707,028	0
Net difference between projected and actual earnings on pension plan investments	<u>1,437,089</u>	<u>0</u>
Total	<u>\$ 4,144,117</u>	<u>\$ 385,157</u>

Summary of Deferred Outflows and Inflows of Resources that will be Recognized in the Pension Expense in Future Years.

<u>Year ending</u>	<u>Amount</u>
9/30/2016	\$ 1,368,781
9/30/2017	1,368,781
9/30/2018	662,125
9/30/2019	359,272
9/30/2020	0
Thereafter	0

**Table VIII
(Cont'd)**

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Accounting Disclosure Exhibit

The following information is not required to be disclosed but is provided for informational purposes.

X. Components of Pension Expense (GASB No. 68)

Measurement Date	Projected 12/31/2015*	12/31/2014
Service Cost	\$ 1,615,566	\$ 1,688,924
Interest on Total Pension Liability	7,500,304	7,233,694
Current-Period Benefit Changes	0	0
Contributions - Member	0	0
Projected Earnings on Plan Investments	(5,890,564)	(5,705,665)
Administrative Expenses	80,934	75,519
Other Changes in Plan Fiduciary Net Position	0	0
Recognition of Beginning Deferred Outflows / (Inflows) due to Liabilities	884,669	1,009,509
Recognition of Beginning Deferred Outflows / (Inflows) due to Assets	359,272	359,272
Total Pension Expense	<u>\$ 4,550,181</u>	<u>\$ 4,661,253</u>

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Accounting Disclosure Exhibit

The following information is not required to be disclosed but is provided for informational purposes.

XI. Recognition of Deferred Outflows and (Inflows) Due to Liabilities (GASB No. 68)

Recognition of Deferred Outflows due to Differences Between Actual and Expected Experience on Liabilities

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 12/31/2014	Recognition Amount for 2014	Balance as of 12/31/2014
2014	\$ 0	3.3	2.3	\$ 0	\$ 0
TOTAL				\$ 0	\$ 0

Recognition of Deferred (Inflows) due to Differences Between Actual and Expected Experience on Liabilities

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 12/31/2014	Recognition Amount for 2014	Balance as of 12/31/2014
2014	\$ (552,616)	3.3	2.3	\$ (167,459)	\$ (385,157)
TOTAL				\$ (167,459)	\$ (385,157)

Recognition of Deferred Outflows due to Changes of Assumptions or Other Inputs

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 12/31/2014	Recognition Amount for 2014	Balance as of 12/31/2014
2014	\$ 3,883,996	3.3	2.3	\$ 1,176,968	\$ 2,707,028
TOTAL				\$ 1,176,968	\$ 2,707,028

Recognition of Deferred (Inflows) due to Changes of Assumptions or Other Inputs

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 12/31/2014	Recognition Amount for 2014	Balance as of 12/31/2014
2014	\$ 0	3.3	2.3	\$ 0	\$ 0
TOTAL				\$ 0	\$ 0

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Accounting Disclosure Exhibit

The following information is not required to be disclosed but is provided for informational purposes.

XII. Recognition of Deferred Outflows / (Inflows) due to Assets (GASB No. 68)

Recognition of Deferred Outflows / (Inflows) due to Differences Between Projected and Actual Earnings on Pension Plan Investments

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 12/31/2014	Recognition Amount for 2014	Balance as of 12/31/2014
2014	\$ 1,796,361	5	4	\$ 359,272	\$ 1,437,089
			TOTAL	\$ 359,272	\$ 1,437,089

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Outline of Principal Provisions of the Retirement Plan

A. Effective Date:

April 9, 1954, as amended and restated as of September 28, 1983, and further amended through Resolution No. 82 effective January 15, 2014.

B. Eligibility Requirements:

All regular and permanent employees of the Utility Board shall become members of the Plan immediately upon completion of probationary period. All regular and permanent employees of the Utility Board employed prior to October 2, 2003 became members of the Plan immediately upon employment. Elected Utility Board officials become members of the Plan immediately upon election.

C. Member Contributions:

Eliminated effective October 1, 1985 (October 1, 1983 for management members).

D. Utility Board Contributions:

The Utility Board shall contribute an amount which will be determined annually by decision of the Utility Board.

E. Credited Service:

Credited service is service performed subject to a maximum of 30 years. However, any member with more than 30 years of credited service as of November 20, 1998 will be grandfathered under the prior 35 year cap.

F. Average Final Compensation:

Average final compensation (AFC) equals the average annual pensionable earnings received during a period of the five highest years out of the last ten years of service immediately preceding retirement. Pensionable earnings are calculated using the member's base hourly rate each pay period, multiplied by 80 hours, less any hours that are considered *leave without pay*.

G. Career Average Compensation:

Career average compensation (CAC) means the average of the pensionable earnings received by a member from date of participation to termination of service. Pensionable earnings are calculated using the member's base hourly rate each pay period, multiplied by 80 hours, less any hours that are considered *leave without pay*.

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Outline of Principal Provisions of the Retirement Plan

H. Normal Retirement:

1. Eligibility:

Earlier of:

- (a) Attainment of age 60 and completion of 10 years of credited service, attainment of age 60 if a Plan Member on or before November 13, 2008.
- (b) Completion of 30 years of credited service.

2. Benefit:

For employees hired on or before May 31, 2010, 2.4% times AFC times years of credited service. For employees hired on or after June 1, 2010, 2.0% times CAC times years of credited service.

I. Early Retirement:

1. Eligibility:

Earliest of:

- (a) Attainment of age 55 with completion of 10 years of credited service.
- (b) Completion of 20 years of credited service.

2. Benefit:

Benefit as calculated for normal retirement based on credited service and AFC or CAC as of early retirement date. The member may elect to defer receipt of the benefit until the normal retirement date or alternatively, may elect a benefit reduced 5% for each year the benefit commencement date precedes normal retirement date.

J. Disability Retirement:

1. Eligibility:

Totally and permanently disabled as defined under the Plan and completion of 10 years of credited service as of date of disability.

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Outline of Principal Provisions of the Retirement Plan

2. Benefit:

For employees hired on or before May 31, 2010, benefit as calculated for normal retirement based on credited service and average basic compensation during the three years immediately preceding disability, minimum benefit of 20% of final three year average basic compensation at date of disability.

For employees hired on or after June 1, 2010, benefit as calculated for normal retirement based on credited service and CAC as of date of disability, minimum benefit of 20% of CAC at date of disability.

These benefits will be offset by any benefits payable under Workers' Compensation or similar injury or disability benefit payments.

K. Pre-Retirement Death Benefit:

In the case of death of a member while currently employed, the amount of the projected benefit which such member would have received had the member continued employment until normal retirement date at the current rate of pay shall be determined. Each Plan Member may elect survivor payment under Option 1 or Option 2, however, Option 2 is only available if the Plan Member has children under 21 years of age (25 years of age provided the child is a full-time student in college or disabled under Social Security).

Option 1, 75% of the benefit calculated above payable during the remaining lifetime of the spouse or domestic partner.

Option 2, 100% of the benefit calculated above payable until the youngest child is 21 years of age (25 years of age provided the child is a full-time student in college or disabled under Social Security). Upon attainment of age 21 (age 25 provided the child is a full-time student in college or disabled under Social Security) by the youngest child, 60% of the benefit calculated above payable during the remaining lifetime of the surviving spouse or domestic partner.

Notwithstanding the above, the minimum death benefit paid shall not be less than the accumulated employee contributions, if any, as of date of death.

L. Termination Benefit:

Upon termination prior to normal or early retirement date a member shall be entitled to choose (1) or (2) below, where:

- (1) is a refund of employee contributions plus 1% if termination with 5 years or less of service, or 3% if termination after 5 years of service; and,

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Outline of Principal Provisions of the Retirement Plan

(2) is (a) x (b), where (a) is the benefit as calculated for normal retirement, based on AFC or CAC and credited service at date of termination, and (b) is a percentage as shown on the following table:

<u>Years of Credited Service</u>	<u>Percentage</u>
Less than 5	0%
5	25%
6	30%
7	40%
8	60%
9	80%
10 or more	100%

If this option is selected, unreduced vested benefits commence as of the terminated employees' normal retirement date. Alternatively, the member may elect to commence receiving a reduced vested benefit any time after early retirement eligibility requirements are met. Such benefit is reduced by 5% for each year that commencement of benefits precedes the date which the member would have been eligible for normal retirement.

M. Normal Form of Payment:

Monthly life annuity with final payment due in month in which death occurs. Effective January 1, 1986, monthly benefits are increased 2% per annum. Effective January 1, 2001, monthly benefits are increased 3% per annum.

N. Changes Since Previous Valuation

None.

**Retirement System for General Employees of
the Utility Board of the City of Key West**

**Actuarial Assumptions and Actuarial Cost Methods
Used in the Valuation**

A. Mortality

For healthy participants, the RP 2000 Mortality Table was used, with separate rates for males and females and for annuitants and non-annuitants, projected with full generational mortality improvements with Scale AA.

For disabled participants, the RP 2000 Disabled Mortality Table was used, with separate rates for males and females, projected with full generational mortality improvements with Scale AA.

B. Interest to be Earned by Fund

7.5%, net of investment expenses, compounded annually.

C. Allowances for Expenses or Contingencies

Average of actual administrative expenses during prior three (3) years.

D. Employee Withdrawal Rates

Withdrawal rates were used in accordance with tables per the following illustrative example:

<u>Withdrawal Rates</u>	
<u>Service</u>	<u>Unisex Rates</u>
0	10.00%
1	9.00%
2	8.00%
3	6.00%
4	4.00%
5+	3.50%

**Retirement System for General Employees of
the Utility Board of the City of Key West**

**Actuarial Assumptions and Actuarial Cost Methods
Used in the Valuation**

E. Salary Increase Factors

Current salary was assumed to increase according to the following table.

Age	Salary Increase Factors		
	Assumed Wage Inflation	Promotion & Seniority	Total Current Rates
< 25	3.50%	6.50%	10.00%
25 - 34	3.50%	4.00%	7.50%
35 - 44	3.50%	2.50%	6.00%
45 - 54	3.50%	1.50%	5.00%
55 & After	3.50%	1.00%	4.50%

F. Disability Benefits

Class (01) Inter-Company modified disability rates for males were used. Rates for females were doubled. No Workers' Compensation benefits are assumed to be payable.

G. Assumed Retirement Age

Employees are assumed to retire at the rates shown in the following table.

<u>Age</u>	<u>Rate of Retirement</u>
< 55	5%
55 - 58	15%
59 - 60	30%
61 - 62	10%
63 - 69	15%
70	100%

**Retirement System for General Employees of
the Utility Board of the City of Key West**

**Actuarial Assumptions and Actuarial Cost Methods
Used in the Valuation**

Employees who attain age 50 with 30 years of service after the valuation date are assumed to retire no later than age 50 with 30 years of service. Employees who have reached age 70 or age 50 with 30 years of service as of the valuation date are assumed to remain employed for an additional year.

H. Death Benefits

1. The assumed incidence of deaths is 90% service incurred and 10% as non-service incurred.
2. 10% of participants are assumed to designate a child as beneficiary eligible for future children's benefits.
3. 90% of participants are assumed to be married.

I. Valuation of Assets

The method used for determining the smoothed actuarial value of assets phases in the deviation between the expected and actual return on assets at the rate of 20% per year. The smoothed actuarial value of assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the fair market value of System assets and whose upper limit is 120% of the fair market value of System assets.

J. Increase in Covered Payroll

3.0% per year, but limited to average annual increase over most recent ten years (2.7%).

K. Cost Method

Normal Retirement, Termination, Disability, and Death Benefits: Entry-Age-Actuarial Cost Method.

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his age at hire to his assumed retirement age to fund his estimated benefits, assuming the Plan had always been in effect. The normal cost for the Plan is the sum of such amounts for all employees. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the Plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the smoothed actuarial value of assets of the Plan.

**Retirement System for General Employees of
the Utility Board of the City of Key West**

**Actuarial Assumptions and Actuarial Cost Methods
Used in the Valuation**

L. Changes Since Previous Valuation

None.

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Reconciliation of Plan Participants

A. Active Participants

1. Active participants previous year	130
2. Retired during year	(5)
3. Deceased during year	0
4. Disabled during year	0
5. Terminated during year	(4)
6. New active participants	5
7. Rehired participants	0
8. Active participants	<u>126</u>

B. Participants Receiving Benefits

1. Participants receiving benefits previous year	170
2. New retired participants	5
3. New terminated vested receiving benefits	4
4. New disabled receiving benefits	0
5. New beneficiaries receiving benefits	2
6. Deceased or ceased payment during year	(5)
7. Retired or terminated vested receiving benefits current year	<u>176</u>

C. Terminated Vested Participants Entitled to Future Benefits

1. Terminated vested entitled previous year	26
2. Deceased during year	0
3. Commenced receiving benefits during year	(4)
4. New terminated vested	4
5. Terminated vested paid lump sum	0
6. Terminated vested rehired during year	0
7. Adjustment	(1)
8. Terminated vested entitled current year	<u>25</u>

Table XII

**Retirement System for General Employees of
the Utility Board of the City of Key West
Distribution by Attained Age Groups
and Service Groups as of January 1, 2015**

<u>Attained</u> <u>Age Group</u>	-----COMPLETED YEARS OF SERVICE-----							<u>Total</u>
	<u>0-4</u>	<u>5-9</u>	<u>10-14</u>	<u>15-19</u>	<u>20-24</u>	<u>25-29</u>	<u>30 & Over</u>	
Under 25	-	-	-	-	-	-	-	0
25-29	7	6	-	-	-	-	-	13
30-34	2	7	2	-	-	-	-	11
35-39	-	5	7	-	-	-	-	12
40-44	-	4	4	2	2	-	-	12
45-49	2	8	1	3	5	12	-	31
50-54	3	4	1	1	3	5	2	19
55-59	-	5	2	3	4	2	-	16
60-64	2	1	1	1	1	-	1	7
65 & Over	-	2	-	-	2	1	-	5
TOTAL	16	42	18	10	17	20	3	126
Average Attained Age				<u>01/01/2014</u>				<u>01/01/2015</u>
Average Hire Age				45.33 years				45.91 years
Average Pay				\$ 70,973				\$ 71,800
Percent Female				32.3%				34.9%

Table XIII

**Retirement System for General Employees of
the Utility Board of the City of Key West**

**Statistics for Participants Entitled to Deferred Benefits
and Participants Receiving Benefits**

A. Entitled to Deferred Benefits

<u>Current Age Group</u>	<u>Count</u>	<u>Total Annual Benefit</u>	<u>Average Annual Benefit</u>
Less than 50	17	\$ 157,570	\$ 9,269
50-54	6	33,787	5,631
55-59	2	9,552	4,776
60-64	-	-	-
65-69	-	-	-
70 & Over	-	-	-
TOTAL	25	\$ 200,909	\$ 8,036

B. Receiving Benefits

<u>Current Age Group</u>	<u>Count</u>	<u>Total Annual Benefit</u>	<u>Average Annual Benefit</u>
Less than 50	7	\$ 173,746	\$ 24,821
50-54	17	559,240	32,896
55-59	25	577,665	23,107
60-64	22	625,702	28,441
65-69	30	852,476	28,416
70-74	27	825,267	30,565
75-79	25	893,201	35,728
80-84	11	225,121	20,466
85 & Over	12	297,651	24,804
TOTAL	176	\$ 5,030,069	\$ 28,580

Table XIV

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Recent Compensation, Termination and Investment Return Experience

Calendar Year	Compensation		Termination Ratio of Actual to Expected	Investment Return		
	% Increase (Decrease)	Assumed Increase		Smoothed Actuarial Value	Market Value	Assumed Rate of Return
2014	2.3%	5.6%	1.2	10.5%	5.1%	7.5%
2013	3.1%	7.2%	1.2	12.8%	21.0%	8.0%
2012	3.8%	7.2%	0.4	3.6%	13.5%	8.0%
2011	4.4%	7.4%	0.9	2.6%	1.2%	8.0%
2010	2.5%	7.3%	0.5	3.8%	11.5%	8.0%
2009	6.3%	7.2%	0.3	10.8%	18.4%	8.0%
2008	7.8%	5.5%	1.5	(7.0%)	(21.9%)	8.0%
2007	10.4%	5.5%	1.7	9.2%	7.6%	8.0%
2006	8.3%	5.5%	1.5	5.1%	10.8%	8.0%
2005	10.2%	5.5%	2.2	4.6%	3.8%	8.0%
Last 3 Years	3.1%	6.7%	0.8	8.9%	13.0%	7.8%
Last 5 Years	3.2%	6.9%	0.8	6.6%	10.2%	7.9%
Last 10 Years	5.9%	6.4%	1.0	5.5%	6.4%	7.9%

Table XV

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Utility Board Contribution Information

<u>Valuation Date</u>	<u>Contribution Fiscal Year End</u>	<u>Minimum Required Utility Board Contributions</u>	<u>Actual Utility Board Contributions</u>
01/01/2015	12/31/2015	\$ 3,546,806 *	N/A
01/01/2014	12/31/2014	\$ 3,511,645	\$ 3,511,645
01/01/2013	12/31/2013	\$ 3,628,209	\$ 3,628,209
01/01/2012	12/31/2012	\$ 3,356,361	\$ 3,356,361
01/01/2011	12/31/2011	\$ 3,174,884	\$ 3,174,884
01/01/2010	12/31/2010	\$ 3,045,252	\$ 3,103,795
01/01/2009	12/31/2009	\$ 3,318,721	\$ 3,318,721
01/01/2008	12/31/2008	\$ 2,537,303	\$ 2,537,303
01/01/2007	12/31/2007	\$ 2,462,847	\$ 2,462,847
01/01/2006	12/31/2006	\$ 2,208,905	\$ 2,208,905

* 39.2% of expected 2015 covered payroll - \$9,046,826

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Actuarial Valuation as of January 1, 2015

State Required Exhibit

	01/01/2015	01/01/2014
A. <u>Participant Data</u>		
1. Active participants	126	130
2. Retired participants and beneficiaries receiving benefits	167	160
3. Disabled participants receiving benefits	9	10
4. Terminated vested participants	25	26
5. Annual payroll of active participants	\$ 9,046,826	\$ 9,226,528
6. Annual benefits payable to those currently receiving benefits	\$ 5,030,069	\$ 4,634,479
B. <u>Smoothed Actuarial Value of Assets</u>	\$ 75,345,754	\$ 69,362,352
C. <u>Liabilities</u>		
1. Actuarial present value of future expected benefit payments for active members		
a. Retirement benefits	\$ 47,013,482	\$ 48,800,869
b. Vesting benefits	1,513,735	1,533,840
c. Death benefits	710,750	751,566
d. Disability benefits	1,258,841	1,291,818
e. Total	\$ 50,496,808	\$ 52,378,093
2. Actuarial present value of future expected benefit payments for terminated vested members	\$ 1,668,751	\$ 1,822,158
3. Actuarial present value of future expected benefit payments for members currently receiving benefits		
a. Service retired	\$ 53,006,384	\$ 48,205,877
b. Disability retired	1,921,815	2,172,566
c. Beneficiaries	5,979,877	5,448,058
d. Total	\$ 60,908,076	\$ 55,826,501

**Retirement System for General Employees of
the Utility Board of the City of Key West**

Actuarial Valuation as of January 1, 2015

State Required Exhibit

	01/01/2015	01/01/2014
4. Total actuarial present value of future expected benefit payments	\$ 113,073,635	\$ 110,026,752
5. Actuarial accrued liability	\$ 100,946,542	\$ 97,097,244
6. Unfunded actuarial accrued liability	\$ 25,600,788	\$ 27,734,892
 D. <u>Statement of Accumulated Plan Benefits</u>		
1. Actuarial present value of accumulated vested benefits		
a. Participants currently receiving benefits	\$ 60,908,076	\$ 55,826,501
b. Other participants	30,902,039	31,952,804
c. Total	\$ 91,810,115	\$ 87,779,305
2. Actuarial present value of accumulated non-vested System benefits	1,178,863	1,376,780
3. Total actuarial present value of accumulated System benefits	\$ 92,988,978	\$ 89,156,085
 E. <u>Statement of Change in Accumulated Plan Benefits</u>		
1. Actuarial present value of accumulated Plan benefits as of January 1, 2014	\$ 89,156,085	
2. Increase (decrease) during year attributable to:		
a. Plan amendment	\$ 0	
b. Change in actuarial assumptions	0	
c. Benefits paid	(4,673,833)	
d. Other, including benefits accumulated and increase for interest due to decrease in the discount period	8,506,726	
e. Net increase	\$ 3,832,893	
3. Actuarial present value of accumulated Plan benefits as of January 1, 2015	\$ 92,988,978	

Retirement System for General Employees of
the Utility Board of the City of Key West

Actuarial Valuation as of January 1, 2015

State Required Exhibit

	<u>01/01/2015</u>	<u>01/01/2014</u>
F. <u>Pension Cost</u>		
1. Total normal cost	\$ 1,696,500	\$ 1,756,027
2. Payment required to amortize unfunded liability	1,722,108	1,728,259
3. Interest adjustment	128,198	130,661
4. Total required contribution	\$ 3,546,806	\$ 3,614,947
5. Item 4 as a percentage of payroll	39.2%	39.2%
6. Estimated employee contributions	\$ 0	\$ 0
7. Item 6 as a percentage of payroll	0.0%	0.0%
8. Net amount payable by Utility Board	\$ 3,546,806	\$ 3,614,947
9. Item 8 as a percentage of payroll	39.2%	39.2%
G. <u>Past Contributions</u>		
1. Total contribution required (% of actual payroll)	\$ 3,546,806	\$ 3,511,645
2. Actual contributions made	N/A	\$ 3,511,645
H. <u>Net Actuarial Gain (Loss)</u>	\$ 2,458,881	\$ 3,397,417
I. <u>Disclosure of Following Items:</u>		
1. Actuarial present value of future salaries - attained age	\$ 70,711,895	\$ 72,868,040
2. Actuarial present value of future employee contributions - attained age	\$ 0	\$ 0
3. Actuarial present value of future contributions from other sources	N/A	N/A
4. Amount of active members' accumulated contributions	\$ 6,552	\$ 15,976
5. Actuarial present value of future salaries and future benefits at entry age	N/A	N/A
6. Actuarial present value of future employee contributions at entry age	N/A	N/A

**Table XVI
(Cont'd)**

**Retirement System for General Employees of
the Utility Board of the City of Key West**

State Required Exhibit

	<u>Unfunded Actuarial Accrued Liabilities</u>	<u>Current Unfunded Liabilities</u>	<u>Amortization Payment</u>	<u>Remaining Funding Period</u>
01/01/1990	Actuarial Loss / (Gain)	(132,181)	(28,905)	5 years
01/01/1991	Plan Amendment	387,781	72,229	6 years
01/01/1991	Actuarial Loss / (Gain)	129,119	24,050	6 years
01/01/1992	Actuarial Loss / (Gain)	(317,221)	(51,757)	7 years
01/01/1993	Actuarial Loss / (Gain)	327,999	47,845	8 years
01/01/1994	Plan Amendment	(11,217)	(1,486)	9 years
01/01/1994	Actuarial Loss / (Gain)	(121,059)	(16,036)	9 years
01/01/1995	Actuarial Loss / (Gain)	2,888,453	351,726	10 years
01/01/1996	Actuarial Loss / (Gain)	(5,624,270)	(635,832)	11 years
01/01/1996	Plan Amendment	3,274,173	370,150	11 years
01/01/1996	Assumption Change	1,581,007	178,735	11 years
01/01/1997	Actuarial Loss / (Gain)	(3,539,969)	(374,577)	12 years
01/01/1997	Assumption Change	(298,430)	(31,578)	12 years
01/01/1998	Actuarial Loss / (Gain)	(5,089,026)	(507,452)	13 years
01/01/1999	Actuarial Loss / (Gain)	(4,914,060)	(464,432)	14 years
01/01/1999	Plan Amendment	3,958,682	374,138	14 years
01/01/2000	Actuarial Loss / (Gain)	(3,026,150)	(272,421)	15 years
01/01/2001	Actuarial Loss / (Gain)	3,603,590	310,324	16 years
01/01/2001	Plan Amendment	4,142,640	356,744	16 years
01/01/2002	Actuarial Loss / (Gain)	4,560,759	377,114	17 years
01/01/2002	Plan Amendment	9,591	793	17 years
01/01/2003	Actuarial Loss / (Gain)	9,494,939	756,337	18 years
01/01/2003	Method Change	(8,197,911)	(653,020)	18 years
01/01/2003	Assumption Change	(518,343)	(41,290)	18 years
01/01/2004	Actuarial Loss / (Gain)	2,031,945	156,384	19 years
01/01/2005	Retiree Benefit Corrections	(1,318,445)	(98,295)	20 years
01/01/2005	Actuarial Loss / (Gain)	1,952,164	145,541	20 years
01/01/2006	Actuarial Loss / (Gain)	2,561,425	185,419	21 years
01/01/2007	Plan Amendment	49,004	3,452	22 years
01/01/2007	Actuarial Loss / (Gain)	1,755,282	123,634	22 years
01/01/2008	Actuarial Loss / (Gain)	(393,591)	(27,026)	23 years
01/01/2009	Actuarial Loss / (Gain)	10,386,920	696,492	24 years
01/01/2009	Assumption Change	1,909,010	128,008	24 years
01/01/2009	Plan Amendment	35,859	2,405	24 years

**Table XVI
(Cont'd)**

**Retirement System for General Employees of
the Utility Board of the City of Key West**

State Required Exhibit

	<u>Unfunded Actuarial Accrued Liabilities</u>	<u>Current Unfunded Liabilities</u>	<u>Amortization Payment</u>	<u>Remaining Funding Period</u>
01/01/2010	Actuarial Loss / (Gain)	(2,255,738)	(147,943)	25 years
01/01/2011	Actuarial Loss / (Gain)	2,298,857	147,680	26 years
01/01/2012	Actuarial Loss / (Gain)	2,711,854	170,864	27 years
01/01/2013	Actuarial Loss / (Gain)	3,345,421	206,983	28 years
01/01/2014	Actuarial Loss / (Gain)	(3,452,255)	(209,978)	29 years
01/01/2014	Assumption Change	3,946,688	240,051	29 years
01/01/2015	Combined Charges*	45,885	45,885	1 year
01/01/2015	Combined Credits*	(119,512)	(41,670)	3 years
01/01/2015	Actuarial Loss / (Gain)	<u>(2,458,881)</u>	<u>(147,177)</u>	30 years
	TOTAL	\$ 25,600,788	\$ 1,722,108	

* Combined per Internal Revenue Code Regulation 1.412(b)-1

This actuarial valuation and/or cost determination was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the Plan and/or paid from the Plan's assets for which liabilities or current costs have not been established or other wise provided for in the valuation. All known events or trends which may require material increase in Plan costs or required contribution rates have been taken into account in the valuation.

Enrollment Number: 14-02802

Dated: April 17, 2015



Lawrence F. Wilson, A.S.A.