

Town of Little Compton

The Town of Little Compton uses the Alternative Calculation method due to its size.

This document includes the 2013 OPEB Cost and Liability reports for the following:

Public Safety (Fire & Police)

School Certified (Teachers)

School Non-Certified (educational support)

FINAL

ACOPEB

Report on the OPEB Costs and Liability

Little Compton Public Safety

For the Year Ending June 30, 2013

11/14/2013

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Description of Report

This report was prepared using ACOPEB.com software to satisfy the requirements of Government Accounting Standards Board Statement No. 45 (GASB 45). This Statement requires that the annual cost and liability associated with other post employment benefits (OPEB) be computed and gradually brought onto the governments' books. If the Little Compton Public Safety is using this report to comply with GASB 45, then the Little Compton Public Safety has under 100 participants covered under the plan and is eligible for the alternative measurement method.

This report provides four primary results: the Actuarial Accrued Liability (AAL), the Unfunded Actuarial Accrued Liability (UAAL), the Annual Required Contribution (ARC), and the Net OPEB Obligation.

The Actuarial Accrued Liability (AAL) is the total projected liability for the post employment benefits covered under the plan. The AAL calculation uses the data on active employees, employees who have left employment but who are eligible for retiree healthcare, current retirees and their beneficiaries, and spouses who are eligible for the retiree healthcare benefit provided by the Little Compton Public Safety. This information along with a set of economic assumptions (see page 8) is used to project the cost of these future benefits and then do an actuarial analysis on the future cost of the benefits to arrive at the AAL. These computations can be found in the appendix.

Unfunded Actuarial Accrued Liability (UAAL) is the AAL less the value of plan assets. Any plan assets used to reduce AAL will have been reported in a fiduciary fund on the fund financial statements.

Annual Required Contribution (ARC) is the current amortization of the UAAL and the normal costs that need to be reported in the basic financial statements.

Net OPEB Obligation is the ARC less certain contributions that can be counted as payment toward the ARC plus any prior year OPEB obligations.

For financial statement purposes, GASB 45 impacts the government-wide and/or the proprietary fund statements but does not affect the governmental fund financial statements. The ARC and Net OPEB Obligation will be among the adjusting entries made to convert the governmental funds from the modified accrual basis to the full accrual basis. The ARC amount will be expensed on the government-wide statement of activities. The Net OPEB Obligation amount will be reported as a liability on the government-wide statement of net assets. For proprietary funds, the impact of GASB 45 affects the fund financial statements, with the Net OPEB Obligation being reported as a liability and the ARC as an expense.

Additional note disclosures and required supplementary information (RSI) are required as a result of GASB 45. The portion of this disclosure related specifically to the computations has been provided on page 5.

Results of the ACOPEB Calculation

Normal cost (current service cost)	\$	56,877
Amortization of UAAL (for past service)		109,151
Annual Required Contribution (ARC)		<u>166,028</u>
Interest on beginning net OPEB obligation		9,805
ARC adjustment		(11,103)
Annual OPEB expense		<u>164,730</u>
Actual active employee matching contributions		0
Employer Portion of Annual OPEB expense		<u>164,730</u>
Actual current year employer contribution and/or payment		153,293
Increase in OPEB obligation		11,437
Net OPEB obligation at beginning of year		<u>245,121</u>
Net OPEB obligation at end of year		<u><u>256,558</u></u>
Covered payroll		454,765
Annual OPEB expense as a % of covered payroll		36.51 %

Source for Government-Wide Adjustments

OPEB Expense presented in Government-wide Statement of Activities	164,730
Liability on the Government-wide Statement of Net Assets	256,558

OPEB Information for Note Disclosure and Required Supplementary Information

	<u>Current Calculation</u>
Actuarial accrued liabilities (AAL)	\$ 2,409,636
Actuarial value of plan assets	<u>0</u>
Unfunded actuarial accrued liabilities (UAAL)	<u>2,409,636</u>
Funded Ratio	0 %
Covered Payroll	\$ 454,765
UAAL as % of Covered Payroll	529.86 %

Calculation of the Amortization of UAAL

Amortization Component

AAL	2,409,636
Less: Assets	0
UAAL	<hr/> 2,409,636
Divided by PV factor	22.9592
Amortization Payment	<hr/> 104,953
Current year interest	4,198
Total Amortization Payment	<hr/> <hr/> 109,151

How the Results Affect Your Annual Financial Report

This report provides your organization's annual OPEB expense amount and the net OPEB obligation at the end of the year both of which will be reported in your financial statements. Additionally, the portion of the required note disclosure related specifically to the computations has been provided on page 5.

This report presents the ARC and net OPEB obligation as a total for the entire plan. In many cases it will be necessary to allocate the OPEB expense and net OPEB obligation between governmental and proprietary funds and/or to different programs within the government. When preparing the relative percentages to allocate these amounts, it is important to note that the retired members will not be represented in any current year FTE or payroll statistics. As a result, it may be most accurate when creating the relative percentages to use the plan data provided in this report, and then to determine where the retired members (including associated spouses) worked when creating the relative percentages.

Applying the OPEB expense and Net OPEB Obligation Amount to your financial statements.

If your organization only has governmental funds, the OPEB expense and net OPEB obligation are reported only on the government-wide financial statements.

If your organization has proprietary funds, the portion of the OPEB expense and the net OPEB obligation attributable to each proprietary fund is reported in the proprietary fund financial statements and on the government-wide financial statements.

Report Assumptions

Assumed retirement age	54
Discount rate	4%
Average salary increase	2%
Medical insurance premium increases (for both active and retired participants)	
Year 1	3%
Year 2	3%
Year 3	3%
Year 4	3%
Year 5	3%
Year 6	3%
Years 7-10	3%
Years 11-21	3%
Years 21 on	3%

Note: The medical insurance premium increases should be reasonably comparable with those found in the *National Health Care Expenditures Projections* of the Office of the actuary at the Centers for Medicare and Medicaid Services in 2007.

The probability of remaining employed until retirement age from current and entry age by age comes from the Table 1 in GASB Statement 45.

Life expectancy by gender comes from the *Life Expectancy Table* from National Center for Health Statistics updated in 2008.

Disclaimer

The Little Compton Public Safety provided all the information entered into ACOPEB.com necessary for the successful completion of the work. The Little Compton Public Safety attests that the data provided is accurate, reflects reasonable assumptions, and is consistent with that required for calculation of OPEB costs and obligations. The Little Compton Public Safety attests that the accuracy of the OPEB calculations is dependent on the accuracy of the data and holds harmless AFS Associates, Inc. from any misstatement of the Government's data.

AFS Associates, Inc provided the software to prepare this report on OPEB costs and obligations to meet the requirements of the alternative measurement methodology of GASB 45. However, AFS Associates, Inc. has not audited the data provided by the Little Compton Public Safety and accordingly does not express an opinion on the quality or accuracy of the Government's data and is held harmless for the effects of any errors or misstatement of the results caused by inaccurate data or assumptions.

APPENDIX

Methodology – A detailed description of how the calculations are done.

Present Value Computation – The columns in the table shows the calculation of the future benefits for each plan member for each future year. The individual year present values are calculated and then totaled to arrive at a total present value of future benefits for each plan member.

ARC and AAL Using the Entry Age Actuarial Cost Method – Shows the calculation of the normal cost at current age and the actuarial accrued liability (AAL) using the present value of future benefits for individual plan members from the previous table.

Methodology

The methodology used for calculating the normal the annual required contribution and the actuarial accrued liability follows the process used in the example found in GASB Statement 45. However, ACOPEB.com uses only the entry age actuarial cost method (also called entry age normal actuarial cost method) of calculation and the level percent of payroll option. This is the methodology AFS Associates, Inc. believes is used by the majority of pension and OPEB plans.

ACOPEB.com uses the data entered as economic assumptions and member data to calculate the actuarial present value of future benefits for each individual. This projection uses the assumed retirement age for members of the plan and the employer's portion of health insurance premiums for current retirees and spouses as a statistical base to forecast the cost of future benefits. The projections differentiate between members who are Medicare eligible and those who are not. Premiums are inflated using future insurance premium increase assumptions. The life expectancy and thus the number of years benefits are projected to be received, is estimated based on the Expectation of Life by Age and Sex in the U.S. table prepared by the National Center for Health Statistics and updated in 2008. The assumed retirement age for active members and their spouses is adjusted to reflect any eligibility requirement, such as a vesting period, by entering an eligible retirement age in the member data for each active member. (For example, an active member is 62 years of age and has 3 years of service and the plan has an assumed retirement age of 65 with a vesting requirement of 10 years. For this member, the age entered in the eligibility requirements is 72 years of age. Benefits will begin at age 72 rather than the assumed retirement age of 65.) The benefits will begin at the eligible retirement age if greater than the assumed retirement age. If there is a minimum age requirement for spouses this will adjust when benefits start being received.

Unidentified former members who may be eligible for benefits are not included in the calculations. Children of active members are not considered in the calculations. Children of retirees receiving benefits are included as additional retired members in the member records. They are included for benefits until they reach the age when benefits terminate, as dictated by the plan.

The current annual premium for an active member represents what the plan is now paying for a retiree member or their spouse. For a retired member the current annual premium is the actual amount the plan paid for that member. As a result, the premiums entered for an active employee and spouse will be very similar, if not the same, as existing retired members and spouses.

A second premium amount is entered for when a member becomes eligible for Medicare. The Medicare premium for each member in the member records should be the amount of annual premiums covered by the plan which could include both the medicare premium and supplemental insurance premiums. The premiums are entered for each member in the member records. If a member is not eligible for Medicare, the Medicare premium value would be 0.

If the assumed retirement age is at or above that necessary to be eligible for Medicare, then the amount entered for both premiums would be the annual Medicare eligible premium. If the assumed retirement age is below the Medicare eligible age, the premium would be based on what the plan is now paying for retired members who are not Medicare eligible.

The annual premium is projected into the future for each member and their spouse. The cost of future premiums are computed using the premium inflation rates input on the economic assumptions page. This annual compounded inflation rate is published at the top of the Present Value Computations report in the appendix.

For active members, the projected costs begin when the member reaches the assumed retirement age, and/or the year they meet the vesting requirement. For active employees who are past the assumed retirement age, they are considered to be retired in the next year or the year in which they meet the plan's vesting requirement whichever is later. If the plan has a limit on the number of years a member will receive benefits after retirement the benefits will stop at the age when benefits terminate as entered in the member records. The projection of benefits ends when a member's life expectancy ends.

Generally speaking, spousal eligibility, terms, and projections of benefits follow the corresponding members. It is assumed that spouses become eligible for benefits when the member retires unless the plan has a minimum age requirement for spouses in which case spousal benefits may be deferred. When the member reaches his/her life expectancy the spousal benefits continue to be projected by their own life expectancy estimate unless the "Benefits Terminate" item is checked as True on the spouse's member record.

Calculation of Projected Cost of Benefits

The next 55 years of benefits are summed to calculate the total for future benefits. The total present value of future benefits is calculated using each year's estimated annual premium discounted by the discount rate entered on the economic assumption page. The discount rate is checked for reasonableness by AFS Associates, Inc.

Calculation of Normal Cost at Current Age and Actuarial Accrued Liability (AAL)

The present value of the future benefits for each member and spouse is then multiplied by the probability of the member remaining employed from current age until assumed retirement age and the probability of remaining employed from entry age until retirement age. These factors are from the table in GASB's Guide to Implementation of GASB Statements 43 and 45 on Other Post Employment Benefits . The resulting amounts are the present values adjusted for the probability of being paid from current age to retirement age and from entry age to retirement age.

The entry age present value adjusted for the probability of being paid is then divided by the PV factor of \$1 per year from entry age to retirement age. The result is the normal cost at entry age. The normal cost at entry age is then inflated using the salary increase rate as the inflation factor for the number of years of employment to obtain the normal cost at current age for each member and spouse. The sum of these is the normal cost at current age for the plan.

The present value factor of \$1 per year from current age to assumed retirement age is then multiplied by the normal cost at current age to obtain the present value of future normal cost.

The present value of future normal costs is then subtracted from the current-age probability-adjusted present value of total benefits to be paid. The resulting amount is the actuarial accrued liability (AAL) for each member and spouse. The sum of all individual AAL's is the AAL for the plan.

Calculation of the Amortization of UAAL

The current value of assets held by the plan is then subtracted from the AAL to determine the unfunded actuarial accrued liability (UAAL). This amount is then divided by the amortization present value factor based on a 30 year amortization period. The result is the amortization payment that would have been due at the beginning of the year. Interest for one year is then calculated using the discount rate. The sum of the amortization payment plus the interest on that amount for the current year is the total amortization amount for the current year.

Calculation of ARC and the Annual OPEB Expense

The total normal cost is then added to the total amortization payment to obtain the annual required contribution (ARC). The interest on the beginning of the year net OPEB obligation, if any, is calculated to be added to the ARC. An ARC adjustment is then calculated to be subtracted from the ARC. The resulting number is the annual OPEB expense.

Any active employee contributions for their future retiree healthcare are then subtracted from the OPEB expense to determine the employer portion of the annual OPEB expense. The annual employer contribution (or amount paid for benefits if a pay-as-you-go funding method is used) is then subtracted from the employer portion of the annual OPEB expense to determine the net change in the OPEB obligation. The Net Change in OPEB Obligation is then added to the Net OPEB Obligation at the beginning of the year to determine the Net OPEB obligation at the end of the year.

**Present Value Computations
Little Compton Public Safety
For Fiscal Year 2013**

ID / Year	Employment Status	Gender	Years Employed	Retirement Age	Age	Years of Benefit	Premium	Medicare Premium	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
									103.00%	106.09%	109.27%	112.55%	115.93%	119.41%	122.99%	126.68%	130.48%	134.39%
10055	Active	M	23	54	46	19	23338	1									\$30,451	\$31,364
10068	Retired	M	24	50	59	6	21899	1	\$22,556	\$23,233	\$23,929	\$24,647	\$25,388	\$26,150	\$1			
10064	Retired	M	6	47	63	2	21899	1	\$22,556	\$23,233	\$1							
10066	Retired	M	25	50	60	5	21899	1	\$22,556	\$23,233	\$23,929	\$24,647	\$25,388	\$1				
10069	Retired	M	25	45	45	20	21899	1	\$22,556	\$23,233	\$23,929	\$24,647	\$25,388	\$26,150	\$26,934	\$27,742	\$28,574	\$29,430
10062	Active	M	26	54	52	13	22816	1			\$24,931	\$25,679	\$26,451	\$27,245	\$28,061	\$28,903	\$29,770	\$30,662
10067	Retired	M	20	56	59	6	21899	1	\$22,556	\$23,233	\$23,929	\$24,647	\$25,388	\$26,150	\$1			
10065	Retired	M	26	56	57	8	21899	1	\$22,556	\$23,233	\$23,929	\$24,647	\$25,388	\$26,150	\$26,934	\$27,742	\$1	
10056	Active	M	17	54	37	28	23338	1										
10057	Active	M	8	54	46	19	10048	1									\$13,111	\$13,504
10070	Retired	M	28	49	61	4	21899	1	\$22,556	\$23,233	\$23,929	\$24,647	\$1					
10058	Active	M	8	54	52	13	23338	1			\$25,501	\$26,267	\$27,056	\$27,868	\$28,703	\$29,565	\$30,451	\$31,364
10059	Active	M	15	54	47	18	23338	1								\$29,565	\$30,451	\$31,364
10060	Active	M	25	54	54	11	23338	1	\$24,038	\$24,759	\$25,501	\$26,267	\$27,056	\$27,868	\$28,703	\$29,565	\$30,451	\$31,364
10063	Active	M	24	54	44	21	22816	1										
10061	Active	M	2	54	23	42	10048	1										

**Present Value Computations
Little Compton Public Safety
For Fiscal Year 2013**

ID / Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	138.42%	142.58%	146.85%	151.26%	155.80%	160.47%	165.28%	170.24%	175.35%	180.61%	186.03%	191.61%	197.36%	203.28%	209.38%	215.66%	222.13%	228.79%
10055	\$32,304	\$33,275	\$34,272	\$35,301	\$36,361	\$37,450	\$38,573	\$39,731	\$40,923	\$2								
10068																		
10064																		
10066																		
10069	\$30,313	\$31,224	\$32,159	\$33,124	\$34,119	\$35,141	\$36,195	\$37,281	\$38,400	\$39,552	\$2							
10062	\$31,582	\$32,531	\$33,505	\$2														
10067																		
10065																		
10056								\$39,731	\$40,923	\$42,151	\$43,416	\$44,718	\$46,060	\$47,441	\$48,865	\$50,331	\$51,841	\$53,395
10057	\$13,908	\$14,326	\$14,755	\$15,199	\$15,655	\$16,124	\$16,607	\$17,106	\$17,619	\$2								
10070																		
10058	\$32,304	\$33,275	\$34,272	\$2														
10059	\$32,304	\$33,275	\$34,272	\$35,301	\$36,361	\$37,450	\$38,573	\$39,731	\$2									
10060	\$32,304	\$1																
10063	\$31,582	\$32,531	\$33,505	\$34,511	\$35,547	\$36,613	\$37,710	\$38,842	\$40,008	\$41,208	\$42,445	\$2						
10061																		

**Present Value Computations
Little Compton Public Safety
For Fiscal Year 2013**

ID / Year	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
	235.66%	242.73%	250.01%	257.51%	265.23%	273.19%	281.39%	289.83%	298.52%	307.48%	316.70%	326.20%	335.99%	346.07%	356.45%	367.15%	378.16%	389.50%
10055																		
10068																		
10064																		
10066																		
10069																		
10062																		
10067																		
10065																		
10056	\$2																	
10057																		
10070																		
10058																		
10059																		
10060																		
10063																		
10061				\$25,875	\$26,650	\$27,450	\$28,274	\$29,122	\$29,995	\$30,896	\$31,822	\$32,777	\$33,760	\$34,773	\$4			

**Present Value Computations
Little Compton Public Safety
For Fiscal Year 2013**

ID / Year	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	Total	Present Value of Benefits
	401.19%	413.23%	425.62%	438.39%	451.54%	465.09%	479.04%	493.41%	508.21%	523.46%	539.17%	555.34%	572.00%	589.16%		
10055															\$390,007	\$224,343
10068															\$145,904	\$127,044
10064															\$45,790	\$43,170
10066															\$119,754	\$106,378
10069															\$606,093	\$396,345
10062															\$319,322	\$232,418
10067															\$145,904	\$127,044
10065															\$200,580	\$167,783
10056															\$508,874	\$205,660
10057															\$167,916	\$96,590
10070															\$94,366	\$85,511
10058															\$326,628	\$237,735
10059															\$378,649	\$226,522
10060															\$307,877	\$242,373
10063															\$404,504	\$215,128
10061															\$331,398	\$77,343

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ARC using the Entry Age Cost Method
Little Compton Public Safety
For the Fiscal Year 2013

Employee ID	Status	Entry Age	Employee Age	Assumed Retirement Age	Years of Past Service	Present Value of Total Benefits	Probability of remaining employed Current Age to Retirement	Probability of remaining employed Entry Age to Retirement	Present Value adjusted for probability of being paid	Entry Age Probability-Adjusted	PV factor of \$1 per year from Entry age to Ret Age	Normal Cost at Entry Age	Normal Cost at Current Age	PV factor of \$1 per year from current age to retirement	PV of future normal cost	AAL
10055	Active	23	46	54	23	\$224,343	0.943	0.379	\$211,555	\$34,497	14.6200	\$2,360	\$3,721	7.4818	\$27,840	\$183,715
10068	Retired	26	59	50	24	\$127,044	1	0.472	\$127,044	\$23,394	0	0	0.0000	0	\$127,044	
10064	Retired	41	63	47	6	\$43,170	1	0.86	\$43,170	\$29,341	0	0	0.0000	0	\$43,170	
10066	Retired	25	60	50	25	\$106,378	1	0.44	\$106,378	\$17,558	0	0	0.0000	0	\$106,378	
10069	Retired	20	45	45	25	\$396,345	0.928	0.296	\$367,808	\$44,008	0	0	0.0000	0	\$396,345	
10062	Active	26	52	54	26	\$232,418	1	0.472	\$232,418	\$39,568	14.6200	\$2,706	\$4,528	1.9808	\$8,969	\$223,449
10067	Retired	36	59	56	20	\$127,044	1	0.753	\$127,044	\$43,660	0	0	0.0000	0	\$127,044	
10065	Retired	30	57	56	26	\$167,783	1	0.593	\$167,783	\$35,887	0	0	0.0000	0	\$167,783	
10056	Active	20	37	54	17	\$205,660	0.777	0.296	\$159,798	\$31,252	13.8870	\$2,250	\$3,151	13.1397	\$41,403	\$118,395
10057	Active	38	46	54	8	\$96,590	0.943	0.799	\$91,084	\$56,391	12.3778	\$4,556	\$5,338	7.4818	\$39,938	\$51,146
10070	Retired	21	61	49	28	\$85,511	1	0.321	\$85,511	\$9,154	0	0	0.0000	0	\$85,511	
10058	Active	44	52	54	8	\$237,735	1	0.912	\$237,735	\$158,424	8.3379	\$19,000	\$22,262	1.9808	\$44,097	\$193,638
10059	Active	32	47	54	15	\$226,522	0.958	0.65	\$217,008	\$81,757	14.6200	\$5,592	\$7,526	6.6089	\$49,739	\$167,269
10060	Active	29	54	54	25	\$242,373	1	0.564	\$242,373	\$51,278	14.6200	\$3,507	\$5,754	0.0000	0	\$242,373
10063	Active	20	44	54	24	\$215,128	0.912	0.296	\$196,197	\$24,842	13.8870	\$1,789	\$2,877	8.3379	\$23,988	\$172,209
10061	Active	21	23	54	2	\$77,343	0.379	0.321	\$29,313	\$22,954	13.8870	\$1,653	\$1,720	14.6200	\$25,146	\$4,167
													\$56,877		\$2,409,636	

FINAL

ACOPEB

Report on the OPEB Costs and Liability

Little Compton School Certified

For the Year Ending June 30, 2013

11/14/2013

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Results of the ACOPEB Calculation

Normal cost (current service cost)	\$	20,112
Amortization of UAAL (for past service)		16,625
Annual Required Contribution (ARC)		<u>36,737</u>
Interest on beginning net OPEB obligation		5,727
ARC adjustment		(6,486)
Annual OPEB expense		<u>35,978</u>
Actual active employee matching contributions		0
Employer Portion of Annual OPEB expense		<u>35,978</u>
Actual current year employer contribution and/or payment		26,324
Increase in OPEB obligation		9,654
Net OPEB obligation at beginning of year		<u>143,182</u>
Net OPEB obligation at end of year		<u><u>152,836</u></u>
Covered payroll		1,747,359
Annual OPEB expense as a % of covered payroll		2.10 %

Source for Government-Wide Adjustments

OPEB Expense presented in Government-wide Statement of Activities	35,978
Liability on the Government-wide Statement of Net Assets	152,836

OPEB Information for Note Disclosure and Required Supplementary Information

	<u>Current Calculation</u>
Actuarial accrued liabilities (AAL)	\$ 367,016
Actuarial value of plan assets	<u>0</u>
Unfunded actuarial accrued liabilities (UAAL)	<u><u>367,016</u></u>
Funded Ratio	0 %
Covered Payroll	\$ 1,747,359
UAAL as % of Covered Payroll	21.00 %

Calculation of the Amortization of UAAL

Amortization Component

AAL	367,016
Less: Assets	0
UAAL	<hr/> 367,016
Divided by PV factor	22.9592
Amortization Payment	<hr/> 15,986
Current year interest	639
Total Amortization Payment	<hr/> <hr/> 16,625

How the Results Affect Your Annual Financial Report

This report provides your organization's annual OPEB expense amount and the net OPEB obligation at the end of the year both of which will be reported in your financial statements. Additionally, the portion of the required note disclosure related specifically to the computations has been provided on page 5.

This report presents the ARC and net OPEB obligation as a total for the entire plan. In many cases it will be necessary to allocate the OPEB expense and net OPEB obligation between governmental and proprietary funds and/or to different programs within the government. When preparing the relative percentages to allocate these amounts, it is important to note that the retired members will not be represented in any current year FTE or payroll statistics. As a result, it may be most accurate when creating the relative percentages to use the plan data provided in this report, and then to determine where the retired members (including associated spouses) worked when creating the relative percentages.

Applying the OPEB expense and Net OPEB Obligation Amount to your financial statements.

If your organization only has governmental funds, the OPEB expense and net OPEB obligation are reported only on the government-wide financial statements.

If your organization has proprietary funds, the portion of the OPEB expense and the net OPEB obligation attributable to each proprietary fund is reported in the proprietary fund financial statements and on the government-wide financial statements.

Report Assumptions

Assumed retirement age	62
Discount rate	4%
Average salary increase	2%
Medical insurance premium increases (for both active and retired participants)	
Year 1	3%
Year 2	3%
Year 3	3%
Year 4	3%
Year 5	3%
Year 6	3%
Years 7-10	3%
Years 11-21	3%
Years 21 on	3%

Note: The medical insurance premium increases should be reasonably comparable with those found in the *National Health Care Expenditures Projections* of the Office of the actuary at the Centers for Medicare and Medicaid Services in 2007.

The probability of remaining employed until retirement age from current and entry age by age comes from the Table 1 in GASB Statement 45.

Life expectancy by gender comes from the *Life Expectancy Table* from National Center for Health Statistics updated in 2008.

Disclaimer

The Little Compton, RI Schools Certified provided all the information entered into ACOPEB.com necessary for the successful completion of the work. The Little Compton, RI Schools Certified attests that the data provided is accurate, reflects reasonable assumptions, and is consistent with that required for calculation of OPEB costs and obligations. The Little Compton, RI Schools Certified attests that the accuracy of the OPEB calculations is dependent on the accuracy of the data and holds harmless AFS Associates, Inc. from any misstatement of the Government's data.

AFS Associates, Inc provided the software to prepare this report on OPEB costs and obligations to meet the requirements of the alternative measurement methodology of GASB 45. However, AFS Associates, Inc. has not audited the data provided by the Little Compton, RI Schools Certified and accordingly does not express an opinion on the quality or accuracy of the Government's data and is held harmless for the effects of any errors or misstatement of the results caused by inaccurate data or assumptions.

APPENDIX

Methodology – A detailed description of how the calculations are done.

Present Value Computation – The columns in the table shows the calculation of the future benefits for each plan member for each future year. The individual year present values are calculated and then totaled to arrive at a total present value of future benefits for each plan member.

ARC and AAL Using the Entry Age Actuarial Cost Method – Shows the calculation of the normal cost at current age and the actuarial accrued liability (AAL) using the present value of future benefits for individual plan members from the previous table.

Methodology

The methodology used for calculating the normal the annual required contribution and the actuarial accrued liability follows the process used in the example found in GASB Statement 45. However, ACOPEB.com uses only the entry age actuarial cost method (also called entry age normal actuarial cost method) of calculation and the level percent of payroll option. This is the methodology AFS Associates, Inc. believes is used by the majority of pension and OPEB plans.

ACOPEB.com uses the data entered as economic assumptions and member data to calculate the actuarial present value of future benefits for each individual. This projection uses the assumed retirement age for members of the plan and the employer's portion of health insurance premiums for current retirees and spouses as a statistical base to forecast the cost of future benefits. The projections differentiate between members who are Medicare eligible and those who are not. Premiums are inflated using future insurance premium increase assumptions. The life expectancy and thus the number of years benefits are projected to be received, is estimated based on the Expectation of Life by Age and Sex in the U.S. table prepared by the National Center for Health Statistics and updated in 2008. The assumed retirement age for active members and their spouses is adjusted to reflect any eligibility requirement, such as a vesting period, by entering an eligible retirement age in the member data for each active member. (For example, an active member is 62 years of age and has 3 years of service and the plan has an assumed retirement age of 65 with a vesting requirement of 10 years. For this member, the age entered in the eligibility requirements is 72 years of age. Benefits will begin at age 72 rather than the assumed retirement age of 65.) The benefits will begin at the eligible retirement age if greater than the assumed retirement age. If there is a minimum age requirement for spouses this will adjust when benefits start being received.

Unidentified former members who may be eligible for benefits are not included in the calculations. Children of active members are not considered in the calculations. Children of retirees receiving benefits are included as additional retired members in the member records. They are included for benefits until they reach the age when benefits terminate, as dictated by the plan.

The current annual premium for an active member represents what the plan is now paying for a retiree member or their spouse. For a retired member the current annual premium is the actual amount the plan paid for that member. As a result, the premiums entered for an active employee and spouse will be very similar, if not the same, as existing retired members and spouses.

A second premium amount is entered for when a member becomes eligible for Medicare. The Medicare premium for each member in the member records should be the amount of annual premiums covered by the plan which could include both the medicare premium and supplemental insurance premiums. The premiums are entered for each member in the member records. If a member is not eligible for Medicare, the Medicare premium value would be 0.

If the assumed retirement age is at or above that necessary to be eligible for Medicare, then the amount entered for both premiums would be the annual Medicare eligible premium. If the assumed retirement age is below the Medicare eligible age, the premium would be based on what the plan is now paying for retired members who are not Medicare eligible.

The annual premium is projected into the future for each member and their spouse. The cost of future premiums are computed using the premium inflation rates input on the economic assumptions page. This annual compounded inflation rate is published at the top of the Present Value Computations report in the appendix.

For active members, the projected costs begin when the member reaches the assumed retirement age, and/or the year they meet the vesting requirement. For active employees who are past the assumed retirement age, they are considered to be retired in the next year or the year in which they meet the plan's vesting requirement whichever is later. If the plan has a limit on the number of years a member will receive benefits after retirement the benefits will stop at the age when benefits terminate as entered in the member records. The projection of benefits ends when a member's life expectancy ends.

Generally speaking, spousal eligibility, terms, and projections of benefits follow the corresponding members. It is assumed that spouses become eligible for benefits when the member retires unless the plan has a minimum age requirement for spouses in which case spousal benefits may be deferred. When the member reaches his/her life expectancy the spousal benefits continue to be projected by their own life expectancy estimate unless the "Benefits Terminate" item is checked as True on the spouse's member record.

Calculation of Projected Cost of Benefits

The next 55 years of benefits are summed to calculate the total for future benefits. The total present value of future benefits is calculated using each year's estimated annual premium discounted by the discount rate entered on the economic assumption page. The discount rate is checked for reasonableness by AFS Associates, Inc.

Calculation of Normal Cost at Current Age and Actuarial Accrued Liability (AAL)

The present value of the future benefits for each member and spouse is then multiplied by the probability of the member remaining employed from current age until assumed retirement age and the probability of remaining employed from entry age until retirement age. These factors are from the table in GASB's Guide to Implementation of GASB Statements 43 and 45 on Other Post Employment Benefits . The resulting amounts are the present values adjusted for the probability of being paid from current age to retirement age and from entry age to retirement age.

The entry age present value adjusted for the probability of being paid is then divided by the PV factor of \$1 per year from entry age to retirement age. The result is the normal cost at entry age. The normal cost at entry age is then inflated using the salary increase rate as the inflation factor for the number of years of employment to obtain the normal cost at current age for each member and spouse. The sum of these is the normal cost at current age for the plan.

The present value factor of \$1 per year from current age to assumed retirement age is then multiplied by the normal cost at current age to obtain the present value of future normal cost.

The present value of future normal costs is then subtracted from the current-age probability-adjusted present value of total benefits to be paid. The resulting amount is the actuarial accrued liability (AAL) for each member and spouse. The sum of all individual AAL's is the AAL for the plan.

Calculation of the Amortization of UAAL

The current value of assets held by the plan is then subtracted from the AAL to determine the unfunded actuarial accrued liability (UAAL). This amount is then divided by the amortization present value factor based on a 30 year amortization period. The result is the amortization payment that would have been due at the beginning of the year. Interest for one year is then calculated using the discount rate. The sum of the amortization payment plus the interest on that amount for the current year is the total amortization amount for the current year.

Calculation of ARC and the Annual OPEB Expense

The total normal cost is then added to the total amortization payment to obtain the annual required contribution (ARC). The interest on the beginning of the year net OPEB obligation, if any, is calculated to be added to the ARC. An ARC adjustment is then calculated to be subtracted from the ARC. The resulting number is the annual OPEB expense.

Any active employee contributions for their future retiree healthcare are then subtracted from the OPEB expense to determine the employer portion of the annual OPEB expense. The annual employer contribution (or amount paid for benefits if a pay-as-you-go funding method is used) is then subtracted from the employer portion of the annual OPEB expense to determine the net change in the OPEB obligation. The Net Change in OPEB Obligation is then added to the Net OPEB Obligation at the beginning of the year to determine the Net OPEB obligation at the end of the year.

**Present Value Computations
Little Compton, RI Schools Certified
For Fiscal Year 2013**

ID / Year	Employment Status	Gender	Years Employed	Retirement Age	Age	Years of Benefit	Premium	Medicare Premium	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
									103.00%	106.09%	109.27%	112.55%	115.93%	119.41%	122.99%	126.68%	130.48%	134.39%	
10072	Active	F	36	62	66	1	268	1	\$276	\$1									
10073	Active	F	19	62	55	12	5501	1								\$6,969	\$7,178	\$7,393	
10071	Active	F	14	62	49	18	5501	1											
10079	Active	F	3	62	32	35	5501	1											
10074	Active	F	4	62	58	9	5501	1					\$6,377	\$6,569	\$6,766	\$6,969	\$7,178	\$1	
10075	Active	F	15	62	54	13	5501	1										\$7,178	\$7,393
10095	Active	F	8	62	30	37	2152	1											
10076	Active	F	25	62	60	7	268	1			\$293	\$302	\$311	\$320	\$330	\$1			
10077	Active	M	16	62	42	25	5501	1											
10078	Active	F	12	62	56	11	5501	1								\$6,766	\$6,969	\$7,178	\$7,393
10100	Retired	F	25	64	65	4	5501	1	\$5,666	\$5,836	\$1	\$1	\$1						
10083	Active	F	4	62	26	41	2152	1											
10080	Active	F	4	62	28	39	2152	1											
10081	Active	F	15	62	46	21	5501	1											
10082	Active	F	4	62	47	20	5501	1											
10084	Active	F	11	62	35	32	5501	1											
10085	Active	F	18	62	43	24	5966	1											
10086	Active	F	27	62	59	8	5501	1				\$6,191	\$6,377	\$6,569	\$6,766	\$6,969	\$1		
10102	Retired	M	39	56	61	19.68	2152	1	\$2,217	\$2,283	\$2,351	\$2,422	\$2,495	\$2,570	\$1	\$1	\$1	\$1	
10101	Retired	F	38	59	62	2	2152	1	\$2,217	\$2,283	\$2,351								
10087	Active	F	17	62	41	26	5501	1											
10088	Active	F	14	62	60	7	5501	1			\$6,011	\$6,191	\$6,377	\$6,569	\$6,766	\$1			
10089	Active	F	4	62	32	35	5501	1											
10103	Retired	M	36	57	58	4	5501	1	\$5,666	\$5,836	\$6,011	\$6,191	\$6,377						
10090	Active	M	7	62	66	1	5501	1	\$5,666	\$1									
10091	Active	F	15	62	53	14	5501	1											
10092	Active	F	10	62	35	32	5501	1											
10093	Active	F	4	62	31	36	2152	1											
10094	Active	F	5	62	33	34	5501	1											
10096	Active	M	5	62	36	31	5501	1											
10104	Retired	F	34	57	60	2	5501	1	\$5,666	\$5,836	\$6,011								
10097	Active	F	11	62	52	15	5501	1											
10098	Active	F	31	62	65	2	2152	1	\$2,217	\$2,283	\$1								
10099	Active	M	25	62	58	9	5966	1					\$6,916	\$7,124	\$7,338	\$7,558	\$7,784	\$1	

**Present Value Computations
Little Compton, RI Schools Certified
For Fiscal Year 2013**

ID / Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	138.42%	142.58%	146.85%	151.26%	155.80%	160.47%	165.28%	170.24%	175.35%	180.61%	186.03%	191.61%	197.36%	203.28%	209.38%	215.66%	222.13%	228.79%
10072																		
10073	\$7,614	\$7,843	\$1															
10071				\$8,321	\$8,571	\$8,827	\$9,092	\$9,365	\$2									
10079																		
10074																		
10075	\$7,614	\$7,843	\$8,078	\$2														
10095																		
10076																		
10077											\$10,234	\$10,540	\$10,857	\$11,182	\$11,518	\$2		
10078	\$7,614	\$1																
10100																		
10083																		
10080																		
10081							\$9,092	\$9,365	\$9,646	\$9,935	\$10,234	\$2						
10082						\$8,827	\$9,092	\$9,365	\$9,646	\$9,935	\$2							
10084																		\$12,586
10085										\$10,775	\$11,099	\$11,431	\$11,774	\$12,128	\$2			
10086																		
10102	\$1	\$1	\$1	\$2	\$2	\$2	\$2	\$2	\$2	\$2	\$2							
10101																		
10087												\$10,540	\$10,857	\$11,182	\$11,518	\$11,863	\$2	
10088																		
10089																		
10103																		
10090																		
10091	\$7,614	\$7,843	\$8,078	\$8,321	\$2													
10092																		\$12,586
10093																		
10094																		
10096																	\$12,219	\$12,586
10104																		
10097	\$7,614	\$7,843	\$8,078	\$8,321	\$8,571	\$2												
10098																		
10099																		

**Present Value Computations
Little Compton, RI Schools Certified
For Fiscal Year 2013**

ID / Year	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
	235.66%	242.73%	250.01%	257.51%	265.23%	273.19%	281.39%	289.83%	298.52%	307.48%	316.70%	326.20%	335.99%	346.07%	356.45%	367.15%	378.16%	389.50%
10072																		
10073																		
10071																		
10079			\$13,753	\$14,166	\$14,590	\$15,028	\$15,479	\$3										
10074																		
10075																		
10095					\$5,708	\$5,879	\$6,056	\$6,237	\$6,424	\$3								
10076																		
10077																		
10078																		
10100																		
10083									\$6,424	\$6,617	\$6,815	\$7,020	\$7,231	\$3				
10080							\$6,056	\$6,237	\$6,424	\$6,617	\$6,815	\$3						
10081																		
10082																		
10084	\$12,964	\$13,353	\$13,753	\$14,166	\$3													
10085																		
10086																		
10102																		
10101																		
10087																		
10088																		
10089			\$13,753	\$14,166	\$14,590	\$15,028	\$15,479	\$3										
10103																		
10090																		
10091																		
10092	\$12,964	\$13,353	\$13,753	\$14,166	\$3													
10093				\$5,542	\$5,708	\$5,879	\$6,056	\$6,237	\$3									
10094		\$13,353	\$13,753	\$14,166	\$14,590	\$15,028	\$3											
10096	\$12,964	\$13,353	\$13,753	\$3														
10104																		
10097																		
10098																		
10099																		

**Present Value Computations
Little Compton, RI Schools Certified
For Fiscal Year 2013**

ID / Year	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	Total	Present Value of Benefits
	401.19%	413.23%	425.62%	438.39%	451.54%	465.09%	479.04%	493.41%	508.21%	523.46%	539.17%	555.34%	572.00%	589.16%		
10072															\$277	\$266
10073															\$36,998	\$24,975
10071															\$44,178	\$23,569
10079															\$73,019	\$19,998
10074															\$33,860	\$25,711
10075															\$38,108	\$24,735
10095															\$30,307	\$7,674
10076															\$1,557	\$1,279
10077															\$54,333	\$22,027
10078															\$35,921	\$25,218
10100															\$11,505	\$10,846
10083															\$34,110	\$7,383
10080															\$32,152	\$7,527
10081															\$48,274	\$22,895
10082															\$46,867	\$23,117
10084															\$66,825	\$20,587
10085															\$57,209	\$24,121
10086															\$32,873	\$25,960
10102															\$14,361	\$12,498
10101															\$6,851	\$6,333
10087															\$55,962	\$21,815
10088															\$31,915	\$26,211
10089															\$73,019	\$19,998
10103															\$30,081	\$26,721
10090															\$5,667	\$5,449
10091															\$39,251	\$24,497
10092															\$66,825	\$20,587
10093															\$29,425	\$7,749
10094															\$70,893	\$20,193
10096															\$64,878	\$20,787
10104															\$17,513	\$16,188
10097															\$40,429	\$24,261
10098															\$4,501	\$4,243
10099															\$36,721	\$27,883

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**ARC using the Entry Age Cost Method
Little Compton, RI Schools Certified
For the Fiscal Year 2013**

Employee ID	Status	Entry Age	Employee Age	Assumed Retirement Age	Years of Past Service	Present Value of Total Benefits	Probability of remaining employed Current Age to Retirement	Probability of remaining employed Entry Age to Retirement	Present Value adjusted for probability of being paid	Entry Age Probability-Adjusted	PV factor of \$1 per year from Entry Age to Ret Age	Normal Cost at Entry Age	Normal Cost at Current Age	PV factor of \$1 per year from current age to retirement	PV of future normal cost	AAL
10072	Active	30	66	62	36	\$266	1	0.593	\$266	\$38	18.0786	\$2	\$4	0.0000	0	\$266
10073	Active	36	55	62	19	\$24,975	1	0.753	\$24,975	\$8,926	17.4135	\$513	\$747	6.6089	\$4,937	\$20,038
10071	Active	35	49	62	14	\$23,569	0.986	0.729	\$23,239	\$9,922	17.4135	\$570	\$752	11.6009	\$8,724	\$14,515
10079	Active	29	32	62	3	\$19,998	0.65	0.564	\$12,999	\$10,027	18.0786	\$555	\$589	18.0786	\$10,648	\$2,351
10074	Active	54	58	62	4	\$25,711	1	1	\$25,711	\$21,978	7.4818	\$2,938	\$3,180	3.8861	\$12,358	\$13,353
10075	Active	39	54	62	15	\$24,735	1	0.821	\$24,735	\$11,276	16.7353	\$674	\$907	7.4818	\$6,786	\$17,949
10095	Active	22	30	62	8	\$7,674	0.593	0.349	\$4,551	\$1,957	16.0439	\$122	\$143	18.0786	\$2,585	\$1,966
10076	Active	35	60	62	25	\$1,279	1	0.729	\$1,279	\$350	17.4135	\$20	\$33	1.9808	\$65	\$1,214
10077	Active	26	42	62	16	\$22,027	0.879	0.472	\$19,362	\$5,551	17.4135	\$319	\$438	15.3388	\$6,718	\$12,644
10078	Active	44	56	62	12	\$25,218	1	0.912	\$25,218	\$14,365	14.6200	\$983	\$1,247	5.7188	\$7,131	\$18,087
10100	Retired	39	65	64	25	\$10,846	1	0.821	\$10,846	\$3,340	0	0	0	0.0000	0	\$10,846
10083	Active	22	26	62	4	\$7,383	0.472	0.349	\$3,485	\$2,203	16.0439	\$137	\$148	17.4135	\$2,577	\$908
10080	Active	24	28	62	4	\$7,527	0.534	0.41	\$4,019	\$2,638	16.7353	\$158	\$171	18.0786	\$3,091	\$928
10081	Active	31	46	62	15	\$22,895	0.943	0.622	\$21,590	\$7,907	18.0786	\$437	\$588	13.1397	\$7,726	\$13,864
10082	Active	43	47	62	4	\$23,117	0.958	0.896	\$22,146	\$17,705	14.6200	\$1,211	\$1,311	12.3778	\$16,227	\$5,919
10084	Active	24	35	62	11	\$20,587	0.729	0.41	\$15,008	\$5,483	16.7353	\$328	\$408	17.4135	\$7,105	\$7,903
10085	Active	25	43	62	18	\$24,121	0.896	0.44	\$21,612	\$5,239	17.4135	\$301	\$430	14.6200	\$6,287	\$15,325
10086	Active	32	59	62	27	\$25,960	1	0.65	\$25,960	\$5,852	18.0786	\$324	\$553	2.9427	\$1,627	\$24,333
10102	Retired	17	61	56	39	\$12,498	1	0.296	\$12,498	\$801	0	0	0	0.0000	0	\$12,498
10101	Retired	21	62	59	38	\$6,333	1	0.321	\$6,333	\$458	0	0	0	0.0000	0	\$6,333
10087	Active	24	41	62	17	\$21,815	0.86	0.41	\$18,761	\$4,592	16.7353	\$274	\$384	16.0439	\$6,161	\$12,600
10088	Active	46	60	62	14	\$26,211	1	0.943	\$26,211	\$14,273	13.1397	\$1,086	\$1,433	1.9808	\$2,838	\$23,373
10089	Active	28	32	62	4	\$19,998	0.65	0.534	\$12,999	\$9,128	18.0786	\$505	\$547	18.0786	\$9,889	\$3,110
10103	Retired	21	58	57	36	\$26,721	1	0.321	\$26,721	\$2,090	0	0	0	0.0000	0	\$26,721
10090	Active	59	66	62	7	\$5,449	1	1	\$5,449	\$4,141	2.9427	\$1,407	\$1,616	0.0000	0	\$5,449
10091	Active	38	53	62	15	\$24,497	1	0.799	\$24,497	\$10,868	16.7353	\$649	\$873	8.3379	\$7,279	\$17,218
10092	Active	25	35	62	10	\$20,587	0.729	0.44	\$15,008	\$6,119	17.4135	\$351	\$428	17.4135	\$7,453	\$7,555
10093	Active	27	31	62	4	\$7,749	0.622	0.503	\$4,820	\$3,332	17.4135	\$191	\$207	18.0786	\$3,742	\$1,078
10094	Active	28	33	62	5	\$20,193	0.677	0.534	\$13,671	\$8,863	18.0786	\$490	\$541	18.0786	\$9,781	\$3,890
10096	Active	31	36	62	5	\$20,787	0.753	0.622	\$15,653	\$10,627	18.0786	\$588	\$649	17.4135	\$11,301	\$4,352
10104	Retired	23	60	57	34	\$16,188	1	0.379	\$16,188	\$1,617	0	0	0	0.0000	0	\$16,188
10097	Active	41	52	62	11	\$24,261	1	0.86	\$24,261	\$13,553	16.0439	\$845	\$1,051	9.1775	\$9,646	\$14,615
10098	Active	34	65	62	31	\$4,243	1	0.703	\$4,243	\$884	18.0786	\$49	\$91	0.0000	0	\$4,243
10099	Active	33	58	62	25	\$27,883	1	0.677	\$27,883	\$7,081	18.0786	\$392	\$643	3.8861	\$2,499	\$25,384
																\$20,112
																\$367,016

FINAL

ACOPEB

Report on the OPEB Costs and Liability

Little Compton School Non-Certified

For the Year Ending June 30, 2013

11/14/2013

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Description of Report

This report was prepared using ACOPEB.com software to satisfy the requirements of Government Accounting Standards Board Statement No. 45 (GASB 45). This Statement requires that the annual cost and liability associated with other post employment benefits (OPEB) be computed and gradually brought onto the governments' books. If the Town of Little Compton, RI is using this report to comply with GASB 45, then the Town of Little Compton, RI has under 100 participants covered under the plan and is eligible for the alternative measurement method.

This report provides four primary results: the Actuarial Accrued Liability (AAL), the Unfunded Actuarial Accrued Liability (UAAL), the Annual Required Contribution (ARC), and the Net OPEB Obligation.

The Actuarial Accrued Liability (AAL) is the total projected liability for the post employment benefits covered under the plan. The AAL calculation uses the data on active employees, employees who have left employment but who are eligible for retiree healthcare, current retirees and their beneficiaries, and spouses who are eligible for the retiree healthcare benefit provided by the Town of Little Compton, RI. This information along with a set of economic assumptions (see page 8) is used to project the cost of these future benefits and then do an actuarial analysis on the future cost of the benefits to arrive at the AAL. These computations can be found in the appendix.

Unfunded Actuarial Accrued Liability (UAAL) is the AAL less the value of plan assets. Any plan assets used to reduce AAL will have been reported in a fiduciary fund on the fund financial statements.

Annual Required Contribution (ARC) is the current amortization of the UAAL and the normal costs that need to be reported in the basic financial statements.

Net OPEB Obligation is the ARC less certain contributions that can be counted as payment toward the ARC plus any prior year OPEB obligations.

For financial statement purposes, GASB 45 impacts the government-wide and/or the proprietary fund statements but does not affect the governmental fund financial statements. The ARC and Net OPEB Obligation will be among the adjusting entries made to convert the governmental funds from the modified accrual basis to the full accrual basis. The ARC amount will be expensed on the government-wide statement of activities. The Net OPEB Obligation amount will be reported as a liability on the government-wide statement of net assets. For proprietary funds, the impact of GASB 45 affects the fund financial statements, with the Net OPEB Obligation being reported as a liability and the ARC as an expense.

Additional note disclosures and required supplementary information (RSI) are required as a result of GASB 45. The portion of this disclosure related specifically to the computations has been provided on page 5.

Results of the ACOPEB Calculation

Normal cost (current service cost)	\$	462
Amortization of UAAL (for past service)		531
Annual Required Contribution (ARC)		<u>993</u>
Interest on beginning net OPEB obligation		9
ARC adjustment		(10)
Annual OPEB expense		<u>992</u>
Actual active employee matching contributions		0
Employer Portion of Annual OPEB expense		<u>992</u>
Actual current year employer contribution and/or payment		0
Increase in OPEB obligation		992
Net OPEB obligation at beginning of year		<u>216</u>
Net OPEB obligation at end of year		<u><u>1,208</u></u>
Covered payroll		197,652
Annual OPEB expense as a % of covered payroll		0.50 %

Source for Government-Wide Adjustments

OPEB Expense presented in Government-wide Statement of Activities	992
Liability on the Government-wide Statement of Net Assets	1,208

OPEB Information for Note Disclosure and Required Supplementary Information

	<u>Current Calculation</u>
Actuarial accrued liabilities (AAL)	\$ 11,719
Actuarial value of plan assets	<u>0</u>
Unfunded actuarial accrued liabilities (UAAL)	<u>11,719</u>
Funded Ratio	0 %
Covered Payroll	\$ 197,652
UAAL as % of Covered Payroll	5.93 %

Calculation of the Amortization of UAAL

Amortization Component

AAL	11,719
Less: Assets	0
UAAL	<hr/> 11,719
Divided by PV factor	22.9592
Amortization Payment	<hr/> 510
Current year interest	20
Total Amortization Payment	<hr/> <hr/> 531

How the Results Affect Your Annual Financial Report

This report provides your organization's annual OPEB expense amount and the net OPEB obligation at the end of the year both of which will be reported in your financial statements. Additionally, the portion of the required note disclosure related specifically to the computations has been provided on page 5.

This report presents the ARC and net OPEB obligation as a total for the entire plan. In many cases it will be necessary to allocate the OPEB expense and net OPEB obligation between governmental and proprietary funds and/or to different programs within the government. When preparing the relative percentages to allocate these amounts, it is important to note that the retired members will not be represented in any current year FTE or payroll statistics. As a result, it may be most accurate when creating the relative percentages to use the plan data provided in this report, and then to determine where the retired members (including associated spouses) worked when creating the relative percentages.

Applying the OPEB expense and Net OPEB Obligation Amount to your financial statements.

If your organization only has governmental funds, the OPEB expense and net OPEB obligation are reported only on the government-wide financial statements.

If your organization has proprietary funds, the portion of the OPEB expense and the net OPEB obligation attributable to each proprietary fund is reported in the proprietary fund financial statements and on the government-wide financial statements.

Report Assumptions

Assumed retirement age	62
Discount rate	4%
Average salary increase	2%
Medical insurance premium increases (for both active and retired participants)	
Year 1	3%
Year 2	3%
Year 3	3%
Year 4	3%
Year 5	3%
Year 6	3%
Years 7-10	3%
Years 11-21	3%
Years 21 on	3%

Note: The medical insurance premium increases should be reasonably comparable with those found in the *National Health Care Expenditures Projections* of the Office of the actuary at the Centers for Medicare and Medicaid Services in 2007.

The probability of remaining employed until retirement age from current and entry age by age comes from the Table 1 in GASB Statement 45.

Life expectancy by gender comes from the *Life Expectancy Table* from National Center for Health Statistics updated in 2008.

Disclaimer

The Town of Little Compton, RI provided all the information entered into ACOPEB.com necessary for the successful completion of the work. The Town of Little Compton, RI attests that the data provided is accurate, reflects reasonable assumptions, and is consistent with that required for calculation of OPEB costs and obligations. The Town of Little Compton, RI attests that the accuracy of the OPEB calculations is dependent on the accuracy of the data and holds harmless AFS Associates, Inc. from any misstatement of the Government's data.

AFS Associates, Inc provided the software to prepare this report on OPEB costs and obligations to meet the requirements of the alternative measurement methodology of GASB 45. However, AFS Associates, Inc. has not audited the data provided by the Town of Little Compton, RI and accordingly does not express an opinion on the quality or accuracy of the Government's data and is held harmless for the effects of any errors or misstatement of the results caused by inaccurate data or assumptions.

APPENDIX

Methodology – A detailed description of how the calculations are done.

Present Value Computation – The columns in the table shows the calculation of the future benefits for each plan member for each future year. The individual year present values are calculated and then totaled to arrive at a total present value of future benefits for each plan member.

ARC and AAL Using the Entry Age Actuarial Cost Method – Shows the calculation of the normal cost at current age and the actuarial accrued liability (AAL) using the present value of future benefits for individual plan members from the previous table.

Methodology

The methodology used for calculating the normal the annual required contribution and the actuarial accrued liability follows the process used in the example found in GASB Statement 45. However, ACOPEB.com uses only the entry age actuarial cost method (also called entry age normal actuarial cost method) of calculation and the level percent of payroll option. This is the methodology AFS Associates, Inc. believes is used by the majority of pension and OPEB plans.

ACOPEB.com uses the data entered as economic assumptions and member data to calculate the actuarial present value of future benefits for each individual. This projection uses the assumed retirement age for members of the plan and the employer's portion of health insurance premiums for current retirees and spouses as a statistical base to forecast the cost of future benefits. The projections differentiate between members who are Medicare eligible and those who are not. Premiums are inflated using future insurance premium increase assumptions. The life expectancy and thus the number of years benefits are projected to be received, is estimated based on the Expectation of Life by Age and Sex in the U.S. table prepared by the National Center for Health Statistics and updated in 2008. The assumed retirement age for active members and their spouses is adjusted to reflect any eligibility requirement, such as a vesting period, by entering an eligible retirement age in the member data for each active member. (For example, an active member is 62 years of age and has 3 years of service and the plan has an assumed retirement age of 65 with a vesting requirement of 10 years. For this member, the age entered in the eligibility requirements is 72 years of age. Benefits will begin at age 72 rather than the assumed retirement age of 65.) The benefits will begin at the eligible retirement age if greater than the assumed retirement age. If there is a minimum age requirement for spouses this will adjust when benefits start being received.

Unidentified former members who may be eligible for benefits are not included in the calculations. Children of active members are not considered in the calculations. Children of retirees receiving benefits are included as additional retired members in the member records. They are included for benefits until they reach the age when benefits terminate, as dictated by the plan.

The current annual premium for an active member represents what the plan is now paying for a retiree member or their spouse. For a retired member the current annual premium is the actual amount the plan paid for that member. As a result, the premiums entered for an active employee and spouse will be very similar, if not the same, as existing retired members and spouses.

A second premium amount is entered for when a member becomes eligible for Medicare. The Medicare premium for each member in the member records should be the amount of annual premiums covered by the plan which could include both the medicare premium and supplemental insurance premiums. The premiums are entered for each member in the member records. If a member is not eligible for Medicare, the Medicare premium value would be 0.

If the assumed retirement age is at or above that necessary to be eligible for Medicare, then the amount entered for both premiums would be the annual Medicare eligible premium. If the assumed retirement age is below the Medicare eligible age, the premium would be based on what the plan is now paying for retired members who are not Medicare eligible.

The annual premium is projected into the future for each member and their spouse. The cost of future premiums are computed using the premium inflation rates input on the economic assumptions page. This annual compounded inflation rate is published at the top of the Present Value Computations report in the appendix.

For active members, the projected costs begin when the member reaches the assumed retirement age, and/or the year they meet the vesting requirement. For active employees who are past the assumed retirement age, they are considered to be retired in the next year or the year in which they meet the plan's vesting requirement whichever is later. If the plan has a limit on the number of years a member will receive benefits after retirement the benefits will stop at the age when benefits terminate as entered in the member records. The projection of benefits ends when a member's life expectancy ends.

Generally speaking, spousal eligibility, terms, and projections of benefits follow the corresponding members. It is assumed that spouses become eligible for benefits when the member retires unless the plan has a minimum age requirement for spouses in which case spousal benefits may be deferred. When the member reaches his/her life expectancy the spousal benefits continue to be projected by their own life expectancy estimate unless the "Benefits Terminate" item is checked as True on the spouse's member record.

Calculation of Projected Cost of Benefits

The next 55 years of benefits are summed to calculate the total for future benefits. The total present value of future benefits is calculated using each year's estimated annual premium discounted by the discount rate entered on the economic assumption page. The discount rate is checked for reasonableness by AFS Associates, Inc.

Calculation of Normal Cost at Current Age and Actuarial Accrued Liability (AAL)

The present value of the future benefits for each member and spouse is then multiplied by the probability of the member remaining employed from current age until assumed retirement age and the probability of remaining employed from entry age until retirement age. These factors are from the table in GASB's Guide to Implementation of GASB Statements 43 and 45 on Other Post Employment Benefits . The resulting amounts are the present values adjusted for the probability of being paid from current age to retirement age and from entry age to retirement age.

The entry age present value adjusted for the probability of being paid is then divided by the PV factor of \$1 per year from entry age to retirement age. The result is the normal cost at entry age. The normal cost at entry age is then inflated using the salary increase rate as the inflation factor for the number of years of employment to obtain the normal cost at current age for each member and spouse. The sum of these is the normal cost at current age for the plan.

The present value factor of \$1 per year from current age to assumed retirement age is then multiplied by the normal cost at current age to obtain the present value of future normal cost.

The present value of future normal costs is then subtracted from the current-age probability-adjusted present value of total benefits to be paid. The resulting amount is the actuarial accrued liability (AAL) for each member and spouse. The sum of all individual AAL's is the AAL for the plan.

Calculation of the Amortization of UAAL

The current value of assets held by the plan is then subtracted from the AAL to determine the unfunded actuarial accrued liability (UAAL). This amount is then divided by the amortization present value factor based on a 30 year amortization period. The result is the amortization payment that would have been due at the beginning of the year. Interest for one year is then calculated using the discount rate. The sum of the amortization payment plus the interest on that amount for the current year is the total amortization amount for the current year.

Calculation of ARC and the Annual OPEB Expense

The total normal cost is then added to the total amortization payment to obtain the annual required contribution (ARC). The interest on the beginning of the year net OPEB obligation, if any, is calculated to be added to the ARC. An ARC adjustment is then calculated to be subtracted from the ARC. The resulting number is the annual OPEB expense.

Any active employee contributions for their future retiree healthcare are then subtracted from the OPEB expense to determine the employer portion of the annual OPEB expense. The annual employer contribution (or amount paid for benefits if a pay-as-you-go funding method is used) is then subtracted from the employer portion of the annual OPEB expense to determine the net change in the OPEB obligation. The Net Change in OPEB Obligation is then added to the Net OPEB Obligation at the beginning of the year to determine the Net OPEB obligation at the end of the year.

**Present Value Computations
Town of Little Compton, RI
For Fiscal Year 2013**

ID / Year	Employment Status	Gender	Years Employed	Retirement Age	Age	Years of Benefit	Premium	Medicare Premium	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
									103.00%	106.09%	109.27%	112.55%	115.93%	119.41%	122.99%	126.68%	130.48%	134.39%
10127	Active	F	24	62	58	7	1500	1					\$1,500	\$1,500	\$1,500	\$1		
10128	Active	F	13	62	46	19	1500	1										
10129	Active	F	28	62	57	8	1500	1						\$1,500	\$1,500	\$1,500	\$1	
10130	Active	M	37	62	55	10	1500	1								\$1,500	\$1,500	\$1,500
10131	Active	M	7	62	36	29	1500	1										
10132	Active	F	9	62	49	16	1500	1										

**Present Value Computations
Town of Little Compton, RI
For Fiscal Year 2013**

ID / Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
	138.42%	142.58%	146.85%	151.26%	155.80%	160.47%	165.28%	170.24%	175.35%	180.61%	186.03%	191.61%	197.36%	203.28%	209.38%	215.66%	222.13%	228.79%
10127																		
10128							\$1,500	\$1,500	\$1,500	\$2								
10129																		
10130	\$1																	
10131																	\$1,500	\$1,500
10132				\$1,500	\$1,500	\$1,500	\$2											

**Present Value Computations
Town of Little Compton, RI
For Fiscal Year 2013**

ID / Year	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058
	235.66%	242.73%	250.01%	257.51%	265.23%	273.19%	281.39%	289.83%	298.52%	307.48%	316.70%	326.20%	335.99%	346.07%	356.45%	367.15%	378.16%	389.50%
10127																		
10128																		
10129																		
10130																		
10131	\$1,500	\$2																
10132																		

**Present Value Computations
Town of Little Compton, RI
For Fiscal Year 2013**

ID / Year	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	Total	Present Value of Benefits
	401.19%	413.23%	425.62%	438.39%	451.54%	465.09%	479.04%	493.41%	508.21%	523.46%	539.17%	555.34%	572.00%	589.16%		
10127															\$4,501	\$3,559
10128															\$4,502	\$2,223
10129															\$4,501	\$3,422
10130															\$4,501	\$3,164
10131															\$4,502	\$1,502
10132															\$4,502	\$2,501

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**ARC using the Entry Age Cost Method
Town of Little Compton, RI
For the Fiscal Year 2013**

Employee ID	Status	Entry Age	Employee Age	Assumed Retirement Age	Years of Past Service	Present Value of Total Benefits	Probability of remaining employed Current Age to Retirement	Probability of remaining employed Entry Age to Retirement	Present Value adjusted for probability of being paid	Entry Age Probability-Adjusted	PV factor of \$1 per year from Entry age to Ret Age	Normal Cost at Entry Age	Normal Cost at Current Age	PV factor of \$1 per year from current age to retirement	PV of future normal cost	AAL
10127	Active	34	58	62	24	\$3,559	1	0.703	\$3,559	\$976	18.0786	\$54	\$87	3.8861	\$338	\$3,221
10128	Active	33	46	62	13	\$2,223	0.943	0.677	\$2,096	\$904	18.0786	\$50	\$65	13.1397	\$854	\$1,242
10129	Active	29	57	62	28	\$3,422	1	0.564	\$3,422	\$644	18.0786	\$36	\$63	4.8114	\$303	\$3,119
10130	Active	18	55	62	37	\$3,164	1	0.296	\$3,164	\$219	4.8114	\$46	\$96	6.6089	\$634	\$2,530
10131	Active	29	36	62	7	\$1,502	0.753	0.564	\$1,131	\$644	18.0786	\$36	\$41	17.4135	\$714	\$417
10132	Active	40	49	62	9	\$2,501	0.986	0.841	\$2,466	\$1,478	16.0439	\$92	\$110	11.6009	\$1,276	\$1,190
													\$462			\$1,719