


**2015 REGULAR SESSION
ACTUARIAL NOTE SB 13**

<p>Senate Bill 13 SLS 15RS-111 Original</p> <p>Author: Senator Barrow Peacock Date: April 14, 2015</p> <p>LLA Note SB 13.01</p> <p>Organizations Affected: Firefighters' Retirement System</p> <p>OR DECREASE APV</p>	<p>This Note has been prepared by the Actuarial Services Department of the Office of the Legislative Auditor. The attachment of this Note to SB 13 provides compliance with the requirements of R.S. 24:521</p> <div style="text-align: center;">  Paul T. Richmond, ASA, MAAA, EA Manager Actuarial Services </div>
---	---

Bill Header: FIREFIGHTERS RETIREMENT. Provides benefits for members hired on or after January 1, 2016. (6/30/15)

Cost Summary:

The estimated actuarial and fiscal impact of the proposed legislative is summarized below. Actuarial costs pertain to changes in the *actuarial present value of future benefit payments*. A cost is denoted by "Increase" or a positive number. Savings are denoted by "Decrease" or a negative number.

Actuarial Cost to Retirement Systems	Decrease
Total Five Year Fiscal Cost	
Expenditures	\$ (4,000,000)
Revenues	\$ (4,000,000)

Estimated Actuarial Impact:

The chart below shows the estimated change in the *actuarial present value of future benefit payments*, if any, attributable to the proposed legislation. A cost is denoted by "Increase" or a positive number. Savings are denoted by "Decrease" or a negative number. Present value costs associated with administration or other fiscal concerns are not included in these values.

<u>Actuarial Cost to:</u>	<u>Change in the Actuarial Present Value</u>
All Louisiana Public Retirement Systems	Decrease
Other Post Retirement Benefits	Decrease
Total	Decrease

Estimated Fiscal Impact:

The chart below shows the estimated fiscal impact of the proposed legislation. This represents the effect on cash flows for the retirement systems and other government entities.. Fiscal costs include estimated administrative costs and costs associated with other fiscal concerns. A fiscal cost is denoted by "Increase" or a positive number. Actuarial or fiscal savings are denoted by "Decrease" or a negative number.

EXPENDITURES	2015-16	2016-17	2017-18	2018-2019	2019-2020	5 Year Total
State General Fund	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Agy Self Generated	0	0	0	0	0	0
Stat Deds/Other	0	0	0	0	0	0
Federal Funds	0	0	0	0	0	0
Local Funds	0	(250,000)	(750,000)	(1,250,000)	(1,750,000)	(4,000,000)
Annual Total	\$ 0	\$ (250,000)	\$ (750,000)	\$ (1,250,000)	\$ (1,750,000)	\$ (4,000,000)

REVENUES	2015-16	2016-17	2017-18	2018-2019	2019-2020	5 Year Total
State General Fund	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Agy Self Generated	0	(250,000)	(750,000)	(1,250,000)	(1,750,000)	(4,000,000)
Stat Deds/Other	0	0	0	0	0	0
Federal Funds	0	0	0	0	0	0
Local Funds	0	0	0	0	0	0
Annual Total	\$ 0	\$ (250,000)	\$ (750,000)	\$ (1,250,000)	\$ (1,750,000)	\$ (4,000,000)

**2015 REGULAR SESSION
ACTUARIAL NOTE SB 13**

Bill Information:

Current Law

Current law provides for retirement eligibility, a 3 year final average compensation (FAC) period, and 3 1/3% accrual rate for all members of Firefighters Retirement System (FRS).

Proposed Law

SB 13 changes the retirement eligibility, the FAC computation period, and the accrual rate for employees of FRS hired on or after January 1, 2016. These changes are summarized below.

	For Members of FRS Hired on or after January 1, 2016	
	Current Law	SB 13
Retirement Eligibility	<ul style="list-style-type: none"> • 25 or more years of service at any age • 20 or more years of service at age 50 • 12 or more years of service at age 55 	<ul style="list-style-type: none"> • 20 or more years of service at age 50 • 12 or more years of service at age 55
FAC	3 years	5 years
Anti-spiking cap	15%	15%
Accrual Rate	3 1/3%	<ul style="list-style-type: none"> • 3 1/3%, only if a member has earned 30 or more years of service • 3%, otherwise

The calculation of additional benefits earned for continued employment after DROP will change for members first employed on or after January 1, 2016. This change is summarized below.

1. If a member's additional service period is less than his FAC period, the additional benefit shall be calculated based on the FAC used to calculate his original benefit.
2. If a member's additional service period is at least his FAC period, the additional benefit shall be calculated based on the FAC during the additional service.

Implications of the Proposed Changes

SB 13 creates a new tier of benefits in FRS for members hired on or after January 1, 2016.

Cost Analysis:

Analysis of Actuarial Costs

Retirement Systems

SB 13 has no effect on any current member of FRS. The actuarial present value of future benefit payments for existing members will not change. SB 13 has no effect on accrued liabilities because it applies to members first employed in the future.

SB 13 provides for a longer FAC period, lower benefit accrual rates and later retirement ages for members first employed on or after January 1, 2016. As a result, the present value of future benefit payments for future members will decrease. Future normal costs and future employer contribution requirements will also decrease. However, savings from SB 13 will not begin to be recognized until new members first employed on or after January 1, 2016 begin to replace currently active members.

The estimated effect of SB 13 on various actuarial cost measures is shown below. This analysis is partially based on information provided to the FRS by G.S. Curran & Company, Ltd.

Change in	Reduction in Normal Cost	
	Long Term over 25 or 30 years	Short Term within 5 years
FAC Period from 3 years to 5 years	1.08%	0.31%
Accrual Rate from 3 1/3% to 3% with 3 1/3% retroactive for members with 30 or more years of service	1.75%	0.51%
Retirement eligibility by Eliminating 25 & out provisions	0.43%	0.18%
Total	3.26%	1.00%

**2015 REGULAR SESSION
ACTUARIAL NOTE SB 13**

Other Post-Employment Benefits

There are potential savings associated with other post-employment benefits (OPEB) depending upon the OPEB plan provisions for firefighters. SB 13 will potentially delay when members of FRS will retire. As a result, firefighters will be receiving OPEB benefits for a shorter period of time and costs will be less.

Analysis of Fiscal Costs

SB 13 will have the following effect on fiscal costs.

Expenditures:

1. Annual expenditures from FRS (Agy Self-Generated) will decrease because benefits for new members will decrease. However, this decrease is expected to be negligible during the 5-year measurement period because the only benefit likely to be paid relative to new members is a refund of employee contributions upon termination of employment and SB 13 has no effect on the calculation of this benefit.
2. Annual expenditures from Local Funds will decrease because employer contribution requirements will decrease. The expected decrease is shown below:

Fiscal Year Ending	Estimated Decrease in Employer Contributions
2016	\$ 0
2017	250,000
2018	750,000
2019	1,250,000
2020	1,750,000

Revenues:

- FRS revenues (Agy Self-Generated) will decrease to the extent that employer contribution requirements decrease.

Actuarial Data, Methods and Assumptions

This actuarial note was prepared using actuarial data, methods, and assumptions as disclosed in the most recent actuarial valuation report adopted by PRSAC.

Actuarial Caveat

There is nothing in SB 13 that will compromise the signing actuary's ability to present an unbiased statement of actuarial opinion.

Actuarial Credentials:

Paul T. Richmond is the actuary for the Louisiana Legislative Auditor. He is an Enrolled Actuary, a member of the American Academy of Actuaries, a member of the Society of Actuaries and has met the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial opinion contained herein.

Dual Referral:

Senate

- 13.5.1: Annual Fiscal Cost \geq \$100,000
- 13.5.2: Annual Tax or Fee Change \geq \$500,000

House

- 6.8(F)(1): Annual Fiscal Cost \geq \$100,000
- 6.8(F)(2): Annual Revenue Reduction \geq \$100,000
- 6.8(G): Annual Tax or Fee Change \geq \$500,000