


**2018 REGULAR SESSION  
ACTUARIAL NOTE SB 3**

<p><b>Senate Bill 3 SLS 18RS-65 Engrossed with Senate Retirement Committee Amendment #779</b></p> <p><b>Author: Senator Peacock Date: March 15, 2018 LLA Note SB 3.02</b></p> <p><b>Organizations Affected: Louisiana State Employees' Retirement System Sheriffs' Pension and Relief Fund</b></p> <p><b>EG INCREASE APV</b></p>	<p>This Note has been prepared by the Actuarial Services Department of the Legislative Auditor with assistance from either the Fiscal Notes staff of the Legislative Auditor or staff of the Legislative Fiscal Office. The attachment of this Note provides compliance with the requirements of R.S. 24:521 as amended by Act 353 of the 2016 Regular Session.</p> <div style="text-align: center;">  <p><b>Paul T. Richmond, ASA, MAAA, EA Manager Actuarial Services</b></p> </div>
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**Bill Header:** RETIREMENT BENEFITS: Provides for benefits for survivors of hazardous duty plan members killed by an intentional act of violence.

**Cost Summary:**

The estimated actuarial and fiscal impact of SB 3 on the retirement systems and their plan sponsors is summarized below. Actuarial costs pertain to estimated changes in the *actuarial present value of future benefit payments*. Fiscal costs or savings pertain to changes to all cash flows over the next five year period including retirement system cash flows, OPEB cash flows, or cash flows related to other government entities.

An increase in actuarial costs is denoted throughout the actuarial note by "Increase" or a positive number. Actuarial savings are denoted by "Decrease" or a negative number. An increase in expenditures or revenues (fiscal impact) is denoted by "Increase" or a positive number. A decrease in expenditures or revenues is denoted by "decrease" or a negative number.

**Estimated Actuarial Impact:**

The top part of the following chart shows the estimated change in the *actuarial present value of future benefit payments and expenses*, if any, attributable to the proposed legislation. The bottom part shows the effect on cash flows.

<b>Actuarial Costs Pertaining to:</b>		<b><u>Actuarial Cost</u></b>
The Retirement Systems		Increase
Other Post Employment Benefits (OPEB)		0
Other Government Entities		<u>0</u>
Total		Increase
<b>Five Year Fiscal Cost Pertaining to:</b>	<b><u>Expenses</u></b>	<b><u>Revenues</u></b>
The Retirement Systems	Increase	Increase
Other Post Employment Benefits	0	0
Other Government Entities	<u>0</u>	<u>0</u>
Total	Increase	Increase

This bill is subject to the Louisiana Constitution which requires unfunded liabilities created by an improvement in retirement benefits to be amortized over a period not to exceed ten years.

**Bill Information**

**Current Law**

Current law provides survivor benefits for the spouse and children of a member of the Louisiana State Employees' Retirement System (LASERS) hazardous duty service plan who dies in the line of duty (or from immediate effects of an injury received while in the line of duty). The survivor benefit payable to the spouse and children is equal to 80% of the member's average compensation at the time of death. The benefit is shared equally by the surviving spouse and children.

**Proposed Law**

SB 3 will provide survivor benefits for the spouse and children of a member of the LASERS Hazardous Duty service plan, the Corrections Officers' plan, the Wildlife Officers' plan, the Public Safety Officers' plan, or the Harbor Police Officers' plan, who was killed by *an intentional act of violence in the line of duty* (or from immediate effects of an injury received by *an intentional act of violence in the line of duty*).

The survivor benefit payable to the spouse and children is equal to 100% of the member's average compensation at the time of death. The benefit is shared equally by the surviving spouse and children.

The LASERS and Sheriffs' Pension & Relief Fund (SPRF) boards of trustees shall electronically notify all members of the legislature when a survivor benefit is granted as provided for in SB 3.

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**Implications of the Proposed Changes**

SB 3 will provide for a greater survivor benefit in the case of a death by *an intentional act of violence in the line of duty* (or from immediate effects of an injury received by *an intentional act of violence in the line of duty*).

**I. ACTUARIAL ANALYSIS SECTION**

**A. Analysis of Actuarial Costs  
(Prepared by the LLA)**

This section of the actuarial note pertains to actuarial costs or savings associated with the retirement systems, with OPEB, and with other government entities.

**1. Retirement Systems**

The actuarial present value cost of SB 3 associated with the retirement systems will increase. Our analysis is summarized below.

SB 3 will increase the death benefit payable when a member of the LASERS working in a hazardous position dies by an intentional act of violence in the line of duty (or from immediate effects of an injury received by an intentional act of violence in the line of duty). According to the system's most recent actuarial valuation, as of June 30, 2017, the hazardous duty service plan of LASERS had 2,624 active employees. Less than five are expected to die from all causes in the following year. While an intentional act of violence is not explicitly defined, it is reasonable to assume that a few deaths in the line of duty will fall in that category and the system will pay a greater death benefit in those instances.

The ultimate cost of the line of duty death benefit depends on the number of members of the LASERS hazardous duty service plan who die in the line of duty. The cost increase associated with the proposed higher benefit payable due to an intentional act of violence will depend on how "intentional act of violence" is interpreted. A broad interpretation would encompass a larger number of line of duty deaths than would a narrower interpretation.

**2. Other Post-Employment Benefits (OPEB)**

The actuarial present value cost of SB 3 associated with OPEB, including retiree health insurance premiums, is estimated to be \$0. Our analysis is summarized below.

The liability for post-retirement medical insurance protection provided to retirees by the Office of Group Benefits or other insurers is not affected by an increase in the death benefit.

**3. Other Government Entities**

The actuarial cost of SB 3 associated with government entities other than those identified in SB 3, is estimated to be \$0.

**B. Actuarial Data, Methods and Assumptions  
(Prepared by the LLA)**

Unless indicated otherwise, the actuarial note for SB 3 was prepared using actuarial data, methods, and assumptions as disclosed in the most recent actuarial valuation report adopted by PRSAC. The data, methods and assumptions are being used to provide consistency with the actuary for the retirement system who may also be providing testimony to the Senate and House retirement committees.

**C. Actuarial Caveat  
(Prepared by the LLA)**

There is nothing in SB 3 that will compromise the signing actuary's ability to present an unbiased statement of actuarial opinion.

**II. FISCAL ANALYSIS SECTION**

Tables A, B, C, and D have been prepared by the LLA. These tables include information developed by the LLA from its own sources as well as information supplied by Tanesha Morgan of the Legislative Fiscal Office (LFO). Table D includes all costs and savings pertaining to Louisiana government.

The LFO has requested that the information supplied by Tanesha Morgan be included in the actuarial note verbatim and without any changes. This information is shown below under Fiscal Costs Developed by the LFO. The reader should note that complete fiscal cost information is contained within Table D. Fiscal costs developed by the LFO only reflect the portion of Table D that was supplied by the LFO.

Table A pertains to fiscal costs or savings associated with the retirement systems; Table B pertains to OPEB; Table C pertains to fiscal costs associated with government entities other than the retirement systems and sponsors. Table D is the cumulative sum of Tables A, B, and C.

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**A. Estimated Fiscal Impact – Retirement Systems**  
(Prepared by the LLA using information supplied by the LFO)

1. Narrative

Table A shows the estimated fiscal impact of the proposed legislation on the retirement systems and the government entities that sponsor them. Fiscal costs and savings include both administrative and actuarial costs and savings. A fiscal cost is denoted by “Increase” or a positive number. Fiscal savings are denoted by “Decrease” or a negative number. A revenue increase is denoted by “Increase” or a positive number. A revenue decrease is denoted by “Decrease” or a negative number.

**Retirement System Fiscal Cost: Table A**

<b>EXPENDITURES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
State General Fund	\$ 0	Increase	Increase	Increase	Increase	Increase
Agy Self Generated	Increase	Increase	Increase	Increase	Increase	Increase
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	Increase	Increase	Increase	Increase	Increase

<b>REVENUES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
State General Fund	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Agy Self Generated	0	Increase	Increase	Increase	Increase	Increase
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	Increase	Increase	Increase	Increase	Increase

The effect that SB 3 will have on retirement related fiscal costs and revenues during the five year measurement period is shown in Table A and in Items 2 and 3 below.

2. Expenditures:

- a. Expenditures from the General Fund will increase to the extent that employer contribution requirements for LASERS will increase to accommodate additional benefits paid to specified surviving spouses and children. These expenditures are expected to be small to negligible.
- b. Expenditures from LASERS (Agy Self-Generated) will increase to the extent that larger benefits will be paid to specified surviving spouses and children.
- c. There will be implementation costs to LASERS to make minor software modifications to existing computer programs to identify the beneficiaries specified in the bill and update their benefit calculations. These costs are negligible and are anticipated to be absorbed through the agency’s existing budget.

3. Revenues:

- a. LASERS revenues (Agy Self-Generated) will increase to the extent that employer contributions for LASERS will increase to accommodate additional benefits payable to specified surviving spouses and children.
- b. Otherwise there is no anticipated direct material effect on revenues for LASERS and SPRF as a result of this measure.

**B. Estimated Fiscal Impact – OPEB**  
(Prepared by the LLA)

1. Narrative

Table B shows the estimated fiscal impact of SB 3 on actuarial costs or savings associated with OPEB and the government entities that sponsor these benefit programs. Fiscal costs or savings in Table B include administrative costs associated with the government entity sponsoring the OPEB program. A fiscal cost is denoted by “Increase” or a positive number. Fiscal savings are denoted by “Decrease” or a negative number. A revenue increase is denoted by “Increase” or a positive number. A revenue decrease is denoted by “Decrease” or a negative number.

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**OPEB Fiscal Cost: Table B**

<b>EXPENDITURES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
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	0	0	0	0	0
Annual Total	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

<b>REVENUES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
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	0	0	0	0	0
Annual Total	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

SB 3 will have no effect on OPEB related fiscal costs and revenues during the five year measurement period.

**C. Estimated Fiscal Impact: Other Government Entities (unrelated to the retirement systems or OPEB)**  
(Prepared by the LLA using information supplied by the LFO and Bradley Cryer, Assistant Legislative Auditor)

1. Narrative

From time to time, legislation is proposed that has an indirect effect on cash flows associated with other government entities, unrelated to the retirement systems or OPEB. Table C shows the estimated fiscal impact (administrative and actuarial) of SB 3 on such government entities. A fiscal cost is denoted by "Increase" or a positive number. Fiscal savings are denoted by "Decrease" or a negative number.

**Fiscal Costs for Other Government Entities: Table C**

<b>EXPENDITURES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
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	0	0	0	0	0
Annual Total	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

<b>REVENUES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
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	0	0	0	0	0
Annual Total	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

SB 3 will have the following effects on fiscal costs and revenues related to other government entities during the five year measurement period.

2. Expenditures:

a. SB 3 has no effect on expenditures for any Louisiana government entity other than LASERS and SPRF.

3. Revenues:

a. SB 3 has no effect on revenues for any Louisiana government entity other than LASERS and SPRF.

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**D. Estimated Fiscal Impact – All Retirement Systems, OPEB, and All Government Entities**  
**(Prepared by the LLA)**

1. Narrative

Table D shows the estimated fiscal impact of SB 3 on all government entities within the state of Louisiana. Cell values in Table D are the sum of the respective cell values in Table A, Table B, and Table C. A fiscal cost is denoted by “Increase” or a positive number. Fiscal savings are denoted by “Decrease” or a negative number. A revenue increase is denoted by “Increase” or a positive number. A revenue decrease is denoted by “Decrease” or a negative number.

**Total Fiscal Cost: Table D (Cumulative Costs from Tables A, B, & C)**

<b>EXPENDITURES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
State General Fund	\$ 0	Increase	Increase	Increase	Increase	Increase
Agy Self Generated	Increase	Increase	Increase	Increase	Increase	Increase
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	Increase	Increase	Increase	Increase	Increase	Increase

<b>REVENUES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
State General Fund	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Agy Self Generated	0	Increase	Increase	Increase	Increase	Increase
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	Increase	Increase	Increase	Increase	Increase

**Fiscal Costs Received by the LLA from the LFO**

**Estimated Fiscal Impact: Other Government Entities (unrelated to the retirement systems or OPEB)**  
**(Prepared by Tanesha Morgan, Legislative Fiscal Office)**

1. Narrative

Present law provides that survivor benefits for the spouse and children of a member of Louisiana State Employees’ Retirement System’s (LASERS) hazardous duty service plan shall equal 80% of the member’s average compensation. Proposed law increases this to benefit to 100% of the member’s average compensation if the member’s death was a result of an intentional act of violence.

**Fiscal Costs for Other Government Entities**

<b>EXPENDITURES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
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	0	0	0	0	0
Annual Total	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

<b>REVENUES</b>	<b>2018-19</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-23</b>	<b>5 Year Total</b>
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	0	0	0	0	0
Annual Total	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

SB 3 will have the following effects on fiscal costs and revenues related to other government entities during the five year measurement period.

3. Expenditures:

*There will be implementation costs to LASERS to make minor software modifications to existing computer programs to identify the beneficiaries specified in the bill and update their benefit calculations. These costs are negligible and are anticipated to be absorbed through the agency’s existing budget.*

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4. Revenues:

*There is no anticipated direct material effect on governmental revenues as a result of this measure.*

**Credentials of the Signatory Staff:**

Paul T. Richmond is the Manager of Actuarial Services 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.

John D. Carpenter, Legislative Fiscal Officer, and Bradley Cryer have supervised the preparation of the fiscal analyses contained herein.

**Information Pertaining to Article (10)(29(F) of the Louisiana Constitution**

SB 3 contains a retirement system benefit provision having an actuarial cost.

Survivor benefits under some circumstances will be larger with the enactment of SB 3 than they would be without its enactment.

**Dual Referral Relative to Total Fiscal Costs or Total Cash Flows:**

The information presented below is based on information contained in Table D for the first three years following the 2018 regular session.

**Senate**

**House**

13.5.1 Applies to Senate or House Instruments.  
If an annual fiscal cost  $\geq$  \$100,000, then bill is dual referred to:  
**Dual Referral: Senate Finance**

6.8F Applies to Senate or House Instruments.  
If an annual General Fund fiscal cost  $\geq$  \$100,000, then the bill is dual referred to:  
**Dual Referral to Appropriations**

13.5.2 Applies to Senate or House Instruments.  
If an annual tax or fee change  $\geq$  \$500,000, then the bill is dual referred to:  
**Dual Referral: Revenue and Fiscal Affairs**

6.8G Applies to Senate Instruments only.  
If a net fee decrease occurs or if an increase in annual fees and taxes  $\geq$  \$500,000, then the bill is dual referred to:  
**Dual Referral: Ways and Means**