

# **Actuarial Audit Update**

# Public Pension Oversight Board LRC Staff October 19, 2021



# **Actuarial Audit 2021**





# Why? Statutory Duty

- House Bill 238 (RS 2016) codified as KRS 7A.250
  - Actuarial Audit
    - Mandatory
    - Every 5 years
    - Evaluate the reliability of each system's actuarial assumptions and methods
  - Funding pursuant to KRS 7A.240
    - To be paid by the state-administered retirement systems to the LRC
    - Included in administrative budget of the systems



### What is an Actuarial Audit?

- Each system retains a *consulting actuary* to perform an actuarial valuation each fiscal year.
- An actuarial audit involves engaging an outside actuary or reviewing actuary to evaluate the work of the retirement system's consulting actuary.
- An actuarial audit is <u>NOT</u>:
  - A financial statement audit, as conducted by a CPA or the Auditor of Public Accounts
  - A forensic audit, such as those conducted to investigate public companies, probe investments, bank statements, etc.
  - An operational or management audit to analyze administrative expenses



# **Actuarial Audit**

#### **Actuarial Assumptions**

Economic

Non-Economic/Demographic

Health Insurance

# Actuarial Valuation Replication

**Total Liability** 

**Funding Level** 

Depends on Level of Audit\*

#### **Actuarial Methods**

Amortization

**Asset Smoothing** 

#### Reasonable

Consistent

Accurate

Calculations Match\*

#### **Actuarial Process**

Standards of Practice

Reporting

**Board Presentation and Advice** 



## **Three Levels of Actuarial Audit**

SCOPE OF REVIEW	LEVEL 1 Full Scope	LEVEL 2 Limited Scope	LEVEL 3 Basic
Examines consulting actuary's valuation reports, experience studies, CAFR, other data, and may dialogue with actuary and staff	✓	✓	✓
Examines actuarial methods, procedures, and assumptions	$\checkmark$	✓	$\checkmark$
Uses same data, assumptions, methods, calculations, and experience used by consulting actuary	✓	✓	
Uses sample of system's member data to test valuation		✓	
Replicates original actuarial valuation using member data as received by consulting actuary	✓		
Demonstrates degree to which audit deviates from valuation (i.e. 100% match or less)	✓	✓	
Offers opinion on whether valuation is reasonable consistent, and accurate	✓	✓	✓



# Previous Actuarial Audits of the State-Administered Retirement Systems

- Generally conducted every 10 years
- Kentucky Retirement Systems
  - 2019-2020
  - The Segal Group
  - June 30, 2019 Actuarial Valuation and 2014-2018 Experience Study
  - Limited Scope
  - \$97.5 K\*
- Teachers' Retirement System
  - 2015
  - The Segal Group
  - June 30, 2014 Actuarial Valuation
  - Full Scope
  - \$95 K\*

<sup>\*</sup>Based on publicly available contracts stating not-to-exceed fees for services.

# TANTUCK!

### How? In a perfect world...

- LRC (on behalf of PPOB) contracts with a firm (Reviewing Actuary) to conduct a Level 1, full-scope actuarial audit of 3 multi-plan, multi-tiered state-administered systems
- Reviewing Actuary receives from each retirement system and from each of the systems' consulting actuaries all pertinent data necessary to conduct an audit, for example:
  - Plan provisions
  - Member data
  - Asset information
  - Actuarial valuation reports with underlying data
  - Experience study reports with underlying data
- Reviewing Actuary is able to:
  - Match calculations of systems' actuaries, and
  - Confirm that each system's actuary's assumptions and methods are reasonable, consistent, and accurate
- Reviewing Actuary submits preliminary report to LRC/retirement system staff
- Reviewing Actuary presents final report to Public Pension Oversight Board



# How? Request for Information

- Part of the procurement process
- Issued prior to a RFP, RFQ, or other procurement step
- Explains the task without a narrow scope of work
- Seeks proposed solutions for how to accomplish the task
- Informational only.
  - Does not obligate contracting entity (LRC) to conduct a RFP, solicitation, or purchase
  - LRC not financially responsible for any cost associated with responses
  - Permits greater public discussion (i.e. before the PPOB)
- Provides the contracting entity (LRC) with a pool of interested firms
- Offers answers/solutions to assist contracting entity (LRC) tailor the final scope of work





- Interested firms respond with no specific bid, but may provide:
  - Answers to contracting entity's inquiries
  - Alternate solutions (either/both)
  - Discussion of matters unique to contracting entity
  - Qualifications necessary to accomplish task
  - Number of staff required to complete task along with titles
  - Prior experience with similar tasks
  - Estimated time to accomplish task
  - Estimated cost for the type of task



## **RFI for PPOB Actuarial Audit**

- Introduction, Background Information
- What scope of actuarial audit recommended?
  - Level 1 (Full scope, replication)
  - Level 2 (Limited scope, sampling)
  - Level 3 or other proposal?
- How to conduct an actuarial audit of three (3) systems?
  - Other issues unique to the Kentucky state-administered retirement systems
- Level of independence (i.e. prior service to systems)
- Structure of the audit process (i.e. it's not a perfect world)
- Qualifications necessary to conduct the actuarial audit
- Estimated time (within six months or less)
- Estimated number of actuaries/staff (primary, secondary, other)
- Estimated cost



## **Questions?**

