

State Teachers Retirement System of Ohio

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March 17, 2022

Ms. Bethany Rhodes, Director Ohio Retirement Study Council 30 E. Broad St. 2nd Floor Columbus, OH 43215

Dear Bethany:

Pursuant to Substitute Senate Bill 133 and as required by Section 3307.044 of the Ohio Revised Code, enclosed is a report of the actions of the Audit Committee of the State Teachers Retirement Board for calendar year 2021.

Please don't hesitate to contact me if you have any questions.

Sincerely,

William & Neville

William J. Neville Executive Director

Enclosure

To: Ohio Retirement Study Council (ORSC)

Subject: STRS Ohio Audit Committee Reports - 2021 Activities

Date: March 17, 2022

As required by Section 3307.044 of the Ohio Revised Code, the following report outlines the activities of the STRS Ohio Audit Committee and the STRS Ohio Internal Audit Department for the year ending Dec. 31, 2021. This report outlines the following: audit reviews completed during 2021; STRS Ohio Audit Committee meetings and actions; and the 2022 Internal Audit Plan. Audit Committee members during 2021 were Robert McFee (Chair/Active Member), Claudia Herrington (Vice Chair/Appointee), Jeffrey Rhodes (Active Member), Wade Steen (Appointee), Rita Walters (Retired Member), and Carol Correthers (Active Member/Non-Voting Observer).

Audit Reviews Completed During 2021

The attached 2021 Internal Audit Summary lists the audits performed, the scope of each audit, the recommendations to management; management's response and expected implementation dates. The Internal Audit Summaries were provided to all STRS Ohio Board Members in March, August, and December of 2021.

STRS Ohio Audit Committee Meetings and Actions

The Audit Committee met on August 19, 2021, at 8:00 a.m. and was called to order by the committee chair. Committee members taking part were Rita Walters, Claudia Herrington, Jeffrey Rhodes and Wade Steen. Also in attendance were board members Carol Correthers, Robert McFee, Scott Hunt, and Dale Price; Arthur Lard and Yoel Mayerfeld joined the meeting in progress. Staff present included Bill Neville, Lynn Hoover, Kathy Boettcher, Jeff Lieser, Robert Vance, Philip Licata, Kimberly VanGundy, Stacey Wideman and Rhonda Hare.

Robert Vance, chief audit executive, reviewed the Quarterly Internal Audit Summary and informed the committee that there were no material findings and Internal Audit had full cooperation from STRS Ohio management. Management has accepted all internal audit recommendations and is in various stages of action-planning or implementation. Mr. Vance informed the committee that his review of the fiscal year 2021 performance-based incentives (PBIs) was complete, and he found the PBIs to be in compliance with the STRS Ohio Board Policy. He also informed the committee that Internal Audit has initiated meetings with non-Investment department associates, who have PBI review responsibilities, to discuss reviewing and coordinating multi-departmental procedures for the purpose of identifying ways of potentially improving efficiencies and coverage. The outcome of these meetings will be discussed with the committee at a future meeting. The next update will be presented to the committee at the December meeting. All audit activity for 2021 will be summarized, and the 2022 Internal Audit Plan will be presented at that time for approval.

Mr. Licata, IT audit controls manager, provided a summary of the scope of active IT audit testing for security and administration of Cloud-based storage and services. Additionally, he provided a brief summary of closed IT audits that did not result in formal recommendations.

Ms. VanGundy, investment audit specialist, provided an update on completed investment audits and discussed recommendations related to documentation of policies and procedures. She indicated that the staff was highly qualified and cooperative and that she was working on follow-up on the implementation of the recommendations.

Ms. Hoover, deputy executive director – Finance, introduced Christine Torres, engagement partner and Jen Aras, concurring partner – Crowe LLC to present a summary of the Fiscal 2021 Financial Statement Audit Plan. Crowe LLC Serves as the independent public accounting firm for STRS Ohio, under the oversight of the

Ohio Auditor of State. Crowe's audit of the system includes testing of investments, contributions and the pension liability and will issue an independent auditor report and required communications will be presented to the Audit Committee in December.

Ms. Hoover introduced Karen Foley, partner – ACA Group, to present their annual investment performance verification and annual performance examination of STRS Ohio for the fiscal year ended June 30, 2021. ACA Group is the third-party verification firm for STRS Ohio and performs rigorous testing and validates to third-party support, the STRS Ohio total fund performance calculation inputs, resulting return and reporting. Their independent tests also verifies that STRS Ohio has both complied and designed its policies and procedures to calculate and present performance in compliance with the Global Investment Performance Standards (GIPS®). ACA Group plans to issue their verification and performance examination report by August 31, 2021, and the final report will be provided to the board in September.

Upon roll call the vote was as follows: Mr. McFee, yes; Ms. Herrington, yes; Ms. Correthers, yes; Dr. Fichtenbaum, yes; Dr. Hunt, yes; Mr. Lard, yes; Mr. Price, yes; Mr. Rhodes, yes; Ms. Walters, yes. The motion carried.

A meeting of the Audit Committee was called to order by the committee chair, on December 16, 2021, at 8:00 a.m. Committee members present were Mr. McFee, Mr. Rhodes, Mr. Steen and Ms. Walters. Board members Ms. Correthers, Dr. Fichtenbaum, Dr. Hunt, Mr. Lard and Mr. Price were also in attendance. Ms. Herrington joined the meeting in progress. Staff present included Mr. Neville, Ms. Hoover, Ms. Boettcher, Mr. Vance, Mr. Licata, Ms. VanGundy, Ms. Wideman and Ms. Hare.

Mr. Vance began with the 2021 Internal Audit Summary. He stated the summary contained no material findings and Internal Audit had full cooperation from management. The results of the Board Expenses, Child Care, and Investment Performance Incentive (PBI) audits were presented. The majority of the outstanding summary recommendations are scheduled to be implemented by management by June 2022.

Mr. Licata summarized the purpose and recommendations related to the IT Change Controls, IT Operations, Business Continuity, and Cloud Access Security Broker audits performed in 2021. Ms. VanGundy summarized the purpose and recommendations related to the Real Estate, Liquidity Reserves, and Operation Risk performed in 2021.

Mr. Vance then reviewed the Executive Summary of the 2022 Internal Audit Plan and the Risk Assessment Process that determines which audits to conduct. Mr. Licata provided a summary of the purpose of the IT Firewall, Cloud Computing/Infrastructure, and Bring Your Own Device (B.Y.O.D) audits scheduled to be performed in 2022. Ms. VanGundy provided a summary of the purpose of the Research, Broker, Trading, Annual PBI and Death Match Process audits to be performed in 2022. Mr. Vance reviewed the process for requesting audits of areas not on the current-year plan and stated the board will be notified of significant areas of concern outside of the quarterly or annual reporting cycle as necessary.

Mr. McFee moved, seconded by Ms. Walters to enter executive session under the authority of the Division (G)(5) of Section 121.22 of the Ohio Revised Code for the purpose of discussing matters required to be kept confidential by federal law or state statute.

Upon roll call the vote was as follows: Mr. McFee, yes; Ms. Walters, yes; Ms. Herrington, yes; Mr. Rhodes, yes; Mr. Steen, yes. The motion carried.

Crowe LLP issued an unmodified opinion on the 2021 financial statements.

Public session resumed and the meeting was adjourned at 9:50 a.m.

Upon roll call the vote was as follows: Mr. McFee, yes; Ms. Walters, yes; Ms. Correthers, yes; Dr. Fichtenbaum, yes; Ms. Herrington, yes; Dr. Hunt, yes; Mr. Lard, yes; Mr. Price, yes; Mr. Rhodes, yes; Mr. Roulston, yes; Mr. Steen, yes. The motion carried.

Special Reviews/Projects

Internal Audit received no requests for supplemental reviews from the Audit Committee or management. See the 2021 Internal Audit Summary, "Other Audit Related Activity" section, for additional departmental activities.

2022 Internal Audit Plan

The 2022 Internal Audit Plan was approved by the STRS Ohio Board on December 16, 2021. A copy of the 2022 Internal Audit Plan is enclosed.

If you have any questions, or need further information, please feel free to call me at (614) 227-4046.

Respectfully submitted,

Robert L. Vance, MBA, MSA Chief Audit Executive

2021 Internal Audit Summary

| | | | Closed Audits: Recommendation | 26 | | | | | | |
|------------------------|-------------------|---------------------------------------|--|-----------------------|-------------|--------------------------|--|--|--|--|
| | Implementation or | | | | | | | | | |
| Audit Area | Risk Rating | Scope | Recommendations | Management's Response | Implemented | Target Implementation | | | | |
| Associate Payroll | Low | State and Federal Tax Regulations | Locate missing/obtain new Form 1-9 and review | Agree | Yes | August 2021 | | | | |
| | | Access to Payroll Database | the controls related to retention to strengthen compliance with documentation requirements. | | | | | | | |
| | | Accuracy of Associates' Net Pay | | | | | | | | |
| | | Immigration Guidelines/Compliance | | | | | | | | |
| | | Form W-4 | | | | | | | | |
| | | | | | | | | | | |
| Child Care Center | Low | Compliance with State Licensing Rules | Management meet to review and discuss updates to Child Care Center operational goals and guidelines. | Agree | Yes | November-21 | | | | |
| | | Compliance with State Inspections | | | | | | | | |
| | | Enrollment | | | | | | | | |
| | | Tuition Payments | | | | | | | | |
| | | Review of Cost Neutrality | | | | | | | | |
| | | Segregation of Duties | | | | | | | | |
| T. Change Control | Med | Change Authorizations | Evaluate the cost/benefit of implementing controls | Agree | Yes | June 2021 | | | | |
| 0 | | Change Testing | designed to reduce the risks associated with privileged user access in the STRS Ohio ITS | 0 | | 2 | | | | |
| | | Change Approved | Change Control process. | | | | | | | |
| | | Change Monitoring | | | | | | | | |
| | | Segregation of Duties | | | | | | | | |
| | | | | | | | | | | |
| | | Emergency Change Management | | | | | | | | |
| nternational Investing | Low | Documented Policies and Procedures | Processes should be updated to include desktop procedures, time of deliverables, Board materials | Agree | Yes | June 2021 | | | | |
| | | Foreign Tax Reclamations | approval documents, meeting notes, revision dates, external manager reviews, and quarterly, annual, and | | | | | | | |
| | | External Manager Fees | ad hoc meeting information to mitigate oversight, inconsistencies, and continuity concerns. | | | | | | | |
| | | Monitoring of External Managers | Store all phases of the investment lifecycle in central | Agree | Yes | June 2021 | | | | |
| | | Segregation of Duties | and accessible locations. | 8 | | J | | | | |
| | | | With the upgrade to a new accounting platform, Finance and ITS departments consider the | Agree | No | June 2023 | | | | |
| | | | cost/benefit of automating and integrating the | | | | | | | |
| | | | foreign tax reclaim process to reduce the risk of inaccuracies or untimely collections. | | | | | | | |
| iquidity Reserves | Low | Documented Policies and Procedures | The Liquidity Reserve and other Cash Manager | Agree | Yes | July 2021 | | | | |
| | | Compliance - Approved Issuers | procedures should be reviewed for completeness at least annually and updated with an appropriate | - | | | | | | |
| | | Compliance - Approved Guidelines | level of detail to reference clearly defined and consistent expectations. | | | | | | | |
| | | Compliance - Independent Reviews | Staff should ensure processes are in the form of | Agree | Yes | July 2021 | | | | |
| | | Income Management | written desktop procedures and should include the expected timing of deliverables, approvals, and | gice | 103 | July 2021 | | | | |
| | | | monthly, quarterly, annual, and ad hoc activities to | | | | | | | |
| | | Board Reporting | mitigate inconsistencies, oversight, and continuity concerns. | | | | | | | |
| | | Business Continuity | All procedures should be reviewed for automation | Agree | Yes | July 2021 | | | | |
| | | | to reduce the potential for manual errors and stored in central and accessible locations. | | | | | | | |
| | | | Write access and changes to the Approved Issuers | Agree | Yes | July 2021 | | | | |
| | | 1 | List should be limited to Investment Operations | | | 1 | | | | |

| OEC Reporting | | Filer List Updates G/L Support Reporting Follow-up Segregation of Duties | Each department review and document procedural steps to ensure sufficiency and to reduce the risk of errors or omissions during administration or absence of key associates. | Agree | Yes | November 2021 |
|---------------|-----|--|--|-------------------------|----------------|--|
| Real Estate | Low | Proper Documentation and Approval Written Policies and Procedures Due Diligence Property Management Company Audit Recommendations Segregation of Duties Compliance Monitoring Key Person Risk | For indirect real estate investments, ensure the completeness of vetting and fiduciary oversight documentation and store with consistent file structures in centralized, accessible locations. Enhance written procedures and include appropriate checklists for approval documents, acquisitions, monitoring, etc. Increase key-person risk coverage of indirect real estate investments to ensure continuity during periods of employee turnover. | Agree Agree Agree | No No No | March 2022 December 2021 June 2022 |

Closed Audits: No Recommendations

| Audit Area | Risk Rating | Scope | Management's Response |
|--|----------------|--|-----------------------|
| Business Continuity Plan | Low | Policies and Procedures | N/A |
| | | Change Approval | |
| | | Change Documentation | |
| | | Change Monitoring | |
| Contribution Reporting | Low | Foundation Management | N/A |
| | | Employee Contribution Management | |
| | | G/L Postings | |
| | | Segregation of Duties | |
| I.T. Operations | Low | Policies and Procedures | N/A |
| | | Batch-Job Processing and Monitoring | |
| | | Backup and Recovery | |
| | | Issues Resolution | |
| I.T. Security Access - MRI | Low | Password Settings | N/A |
| | | User Access | |
| | | Logical Access | |
| | | Privileged Access | |
| Investment Performance (PBI Review) | Low | Segregation of Duties | N/A |
| (PDI Review) | | Compliance with Policy | |
| | | Accuracy | |
| Purchase Service Credit | Low | STaRS Access | N/A |
| | | Certifications and Cost Calculations | |
| | | Member Applications | |
| | | Posting of Purchase Service Credit Payments | |
| | | Compliance with the Ohio Revised Code | |
| | I | | |

| | | Active Audits | |
|--|----------------|---|-------------------|
| Audit Area | Risk Rating | Scope | Target Completion |
| Benefit Payment Process | N/A | Investment Operations Department Review and Verification ITS Department Review and Verification Finance Department Review and Verification Segregation of Duties | January 2022 |
| Board Expenses | N/A | Preapproval of Travel Accuracy of Reimbursements Compliance with Policy | December 2021 |
| Cloud Access Security Broker (C.A.S.B.) | N/A | Service Level Agreement (SLA) Identity and Access Management Credentialling Security Configuration Program Management | January 2022 |
| Fixed Income | N/A | Sufficiency of Current Policies and Procedures Compliance with Policies and Procedures Due Diligence Segregation of Duties Performance Reporting Turnover Best Execution Trade Confirmation/Monitoring | February 2022 |
| Member Services Center | N/A | Scheduling and Adherence Performance Monitoring Associate Training KPI | December 2021 |
| Other Staff Expenses | N/A | Compliance Accuracy of Board Reporting | December 2021 |
| Securities Lending | N/A | Sufficiency of Current Policies and Procedures Compliance with Policies and Guidelines Collateral Requirements Income and Expenses Contract Indemnification Reconciliations and Reporting | February 2022 |

Scheduled Audits

| Audit Area | Risk Rating | Scope | Target Start Date |
|---------------------|----------------|-----------------------------------|----------------------|
| Annual Statements | N/A | Accuracy of Member Information | |
| | | Accuracy of Statement Information | |
| | | External Contracts | December 2021 |
| | | Segregation of Duties | |
| Reemployed Retirees | N/A | Compliance with Ohio Revised Code | |
| | | Input Controls | December 2021 |
| | | Policies and Procedures | |

Rescheduled Audits

| Audit Area | Scope | Explanation |
|---|--------------------------------------|--|
| STRS Ohio Self-Funded Associate Health Insurance | Administrative Service Fees | Associate healthcare administration changed from HRS Dept. to the Member Benefits Health Care Dept. This operational change warranted a postponement of the previously planned audit of HRS activities. The future audit approach will be based on Member Benefits Health Care Dept. |
| | Review of Key Goals and Objectives | operations. |
| | Accuracy of Payroll Withholdings | |
| | Accuracy of Financial Reporting | |
| | Monitoring of Health Insurance Costs | |
| | Miscellaneous Income | |
| | Segregation of Duties | |
| Member Income Taxes | Withholding Change Reconciliations | 2022 Plan: Audit Reprioritization |
| | Tax Interface Reconciliations | |
| | Segregation of Duties | |
| Survivor Benefits | Benefit Calculations | 2022 Plan: Audit Reprioritization |
| | Death Refunds | |
| | Segregation of Duties | |

Other Audit Related Activity

| | Risk | | |
|----------------------------|---------------|---|--|
| Area Multi-departmental | Rating N/A | Subject/Project SimCorp (Maximis system replacement) | Description Consult during the various phases of technical and business process implementation. |
| Multi-departmentai | IN/A | Sintcorp (waxinis system replacement) | consult during the various phases of technical and business process implementation. |
| | | | |
| I.T.S | N/A | Black Hills Information Security: Penetration Testing | Consult with various members management on action items and follow-up. |
| 1010 | | | |
| I.T.S. | N/A | Privileged Access Management (PAM) | Consult with I.T.S. on the evaluation/implementation of a PAM software tool. |
| Multi-departmental | 21/4 | STRS Ohio Disaster Recovery | |
| Multi-departmentai | N/A | STRS One Disaster Recovery | Participate in disaster recovery testing review. Strategize on business and human resource needs. |
| | 6 | | |
| I.T.S. | N/A | IT Framework | Consult with I.T.S. on the evaluation of an IT Framework. |
| | 27/4 | | |
| Multi-departmental | N/A | Organizational Risk Assessment | Participate in multi-departmental risk identification/mitigation efforts. |
| | | | |
| Multi-departmental | N/A | Data Analytics Research/Integration | Consult with I.T.S. to develop useful analytics tools. |

Risk Rating Level: (Refers to rating assigned to findings/recommendations)

High: Requires Immediate attention and remediation.

Medium (Med.): Requires near-term attention.

Low: Improvements possible but does not require attention in immediate or near-term.

Composition of Current Audit Committee:

Robert McFee, Active Member/Chair Claudia Herrington, Appointee/Vice Chair Jeffrey Rhodes, Active Member Wade Steen, Appointee Rita Walters, Retired Member Carol Correthers, Active Member/Non-Voting Observer



2022 Internal Audit Plan

INTERNAL AUDIT DEPARTMENT

Mission Statement

To work in partnership with associates to conduct value-added independent appraisals of policies and procedures to contribute to the continuous improvement of STRS Ohio.

Vision Statement

To be recognized as an innovative department that, through independent appraisals and partnered solutions, strives for quality enhancements and the elimination of non-value-added processes.

To create an environment that encourages teamwork, innovation, open communication, empowerment and personal and professional growth.

Guiding Principles

To achieve our mission and vision, we will:

- Prepare a comprehensive, practical, planned program of audit coverage consistent with STRS Ohio's mission, vision and guiding principles.
- Perform audits in compliance with the International Standards for the Professional Practice of Internal Auditing.
- Verify the adequacy and effectiveness of STRS Ohio's systems of administrative, operating and financial controls.
- Understand the associates' business from their perspective.
- Produce objective, clear, concise, constructive and timely reports.
- Maintain contemporary professional proficiency through continuing education and training.
- Seek to continuously improve our team, tools and processes.
- Develop professional expertise for potential career opportunities within STRS Ohio.

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2022 INTERNAL AUDIT SCHEDULE

| Audit Area | Description of Audit Area | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|-----------------------------------|---|------|------|------|------|-----|------|------|------|------|------|------|------|
| Quality Assurance Activities: I/A | Administrative Reviews | | | | | | | | | | | | |
| | Quality Improvement and Compliance Updates | | | | | | | | | | | | |
| Board/Audit Committee Support | Reviews Performed to the Request of the Board/Audit | | | | | | | | | | | | |
| | Committee | | | | | | | | | | | | |
| Internal Audit Recommendation | Document and Report on Recommendation Compliance | | | | | | | | | | | | |
| Follow-Up | | | | | | | | | | | | | |
| Fiduciary Audit Support | Recommendation Consultation | | | | | | | | | | | | |
| | Implementation Tracking & Reporting | | | | | | | | | | | | |
| Reemployed Retirees | Compliance with Policies and Procedures | | | | | | | | | | | | |
| | Compliance with Ohio Revised Code | | | | | | | | | | | | |
| | Input Controls | | | | | | | | | | | | |
| Member Income Taxes | Withholding Change Reconciliations | | | | | | | | | | | | |
| | Tax Interface Reconciliations | | | | | | | | | | | | |
| | Segregation of Duties | | | | | | | | | | | | |
| Personal Investment Disclosure | Compliance with Policies and Procedures | | | | | | | | | | | | |
| | Accuracy and Completeness | | | | | | | | | | | | |
| | Monitoring | | | | | | | | | | | | |
| Cloud Computing/Infrastructure | Identity and Access Management | | | | | | | | | | | | |
| | Configuration | | | | | | | | | | | | |
| | Security | | | | | | | | | | | | |
| | Program Management | | | | | | | | | | | | |
| | Issues Logging, Monitoring, and Reporting | | | | | | | | | | | | |
| Firewall Review | Firewall Security: Logical/Physical | | | | | | | | | | | | |
| | Configuration | | | | | | | | | | | | |
| | Change Management | | | | | | | | | | | | |
| | Intrusion Detection | | | | | | | | | | | | |
| Member Withdrawals | Compliance with Ohio Revised Code | | | | | | | | | | | | |
| | Refund Estimates | | | | | | | | | | | | |
| | Refund Payments | | | | | | | | | | | | |
| | Non-Zero Accounts | | | | | | | | | | | | |
| | Segregation of Duties | | | | | | | | | | | | |
| Death Match | Compliance with Policies and Procedures | | | | | | | | | | | | |
| | Vendor Data Management | | | | | | | | | | | | |
| | Monitoring | | | | | | | | | | | | |
| | Timeliness of Response/Updates | | | | | | | | | | | | |
| | Risk Mitigation | | | | | | | | | | | | |

2022 INTERNAL AUDIT SCHEDULE

| Audit Area | Description of Audit Area | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
|------------------------------|---|------|------|------|------|-----|------|------|------|------|------|------|------|
| Broker/CSA/Research | Compliance with Policies and Procedures | | | | | | | | | | | | |
| | Segregation of Duties | | | | | | | | | | | | |
| | Compliance with Approved Brokers | | | | | | | | | | | | |
| | Compliance with SEC Section 28(e) | | | | | | | | | | | | |
| | Broker Utilization | | | | | | | | | | | | |
| | Fees | | | | | | | | | | | | |
| | Trade Accuracy | | | | | | | | | | | | |
| | Proper Allocation | | | | | | | | | | | | |
| Bring Your Own Device (BYOD) | Compliance with Policies and Procedures | | | | | | | | | | | | |
| | New-User Setup | | | | | | | | | | | | |
| | Monitoring and Data Security | | | | | | | | | | | | |
| Risk Management/Insurance | Compliance with the STRS Ohio Insurance | | | | | | | | | | | | |
| | and Risk Management Manual | | | | | | | | | | | | |
| | Adequacy of Existing Insurance Policies | | | | | | | | | | | | |
| | Adequacy of Carrier Ratings | | | | | | | | | | | | |
| | Accuracy of Premium Payments | | | | | | | | | | | | |
| | Segregation of Duties | | | | | | | | | | | | |
| Survivor Benefits | Benefit Calculations | | | | | | | | | | | | |
| | Death Refunds | | | | | | | | | | | | |
| | Segregation of Duties | | | | | | | | | | | | |
| Trading | Compliance with Policies and Procedures | | | | | | | | | | | | |
| | Segregation of Duties | | | | | | | | | | | | |
| | Approved Brokers | | | | | | | | | | | | |
| | Best Execution | | | | | | | | | | | | |
| | Trade Accuracy | | | | | | | | | | | | |
| | Proper Allocation | | | | | | | | | | | | |
| Investment Performance/PBI | Associate Eligibility | | | | | | | | | | | | |
| Review | Compliance with PBI Policy | | | | | | | | | | | | |
| Board Expenses | Preapproval of Travel | | | | | | | | | | | | |
| | Accuracy of Reimbursement | | | | | | | | | | | | |
| | Compliance with Rules/Policies | | | | | | | | | | | | |

RISK FACTORS

| RISK FACTOR | RISK FACTOR DESCRIPTION | WEIGHTING |
|--------------------|---|-----------|
| А | Adequacy and Effectiveness of the System of Internal Controls | 9 |
| В | Major Changes in Technology, Operations, the Organization or the Economy | 8 |
| С | Dates and Results of Previous Audits | 7 |
| D | Recent or Relevant Changes in Key Personnel | 6 |
| Е | Complexity or Volatility of Activities | 5 |
| F | Asset Size or Transaction Volume | 4 |

RISK ASSESSMENT SCALE

The risk assessment scale is a 9-point system with graduations of risk as follows:

| RISK FACTOR DESCRIPTION | SCORE |
|-------------------------|-------|
| Extremely Risky | 9 |
| Very Risky | 7 |
| Risky | 5* |
| Slightly Risky | 3 |
| Not Risky | 1 |

* If no previous audit was performed, the auditable area was assessed a 5 — Risky.

| | | Risk Factors* | | | | | | | |
|---|-------|---------------|---|---|---|---|-------|--|--|
| Audit Area | Α | В | С | D | Е | F | Total | | |
| ADN | INIST | RATIO | N | | | | | | |
| Associate Travel Expenses | 2 | 1 | 1 | 1 | 1 | 2 | 8 | | |
| Attendance Reporting | 4 | 2 | 2 | 2 | 2 | 2 | 14 | | |
| Benefit Payment Process | 3 | 4 | 3 | 3 | 3 | 3 | 19 | | |
| Board Expenses | 1 | 1 | 1 | 1 | 1 | 1 | 6 | | |
| Fixed Assets — Computer Equipment | 3 | 4 | 2 | 3 | 3 | 4 | 19 | | |
| Flexible Spending Plans | 2 | 2 | 2 | 2 | 3 | 2 | 13 | | |
| HRS: Associate Payroll | 2 | 2 | 2 | 3 | 2 | 2 | 13 | | |
| HRS: Child Care Center | 2 | 2 | 2 | 2 | 2 | 1 | 11 | | |
| HRS: Educational Assistance Program | 2 | 2 | 2 | 2 | 2 | 2 | 12 | | |
| HRS: Exit Interview Management | 1 | 1 | 5 | 1 | 1 | 1 | 10 | | |
| Insurance/Risk Management | 2 | 2 | 1 | 1 | 2 | 2 | 10 | | |
| Legal: Contract Management | 3 | 2 | 3 | 2 | 4 | 5 | 19 | | |
| Legal: OEC Reporting | 1 | 2 | 1 | 2 | 2 | 1 | 9 | | |
| Legal: Records Management | 2 | 2 | 4 | 1 | 2 | 3 | 14 | | |
| Other Staff Expenses | 2 | 1 | 1 | 1 | 1 | 1 | 7 | | |
| Personal Investment Disclosure | 1 | 1 | 3 | 3 | 5 | 3 | 16 | | |
| Purchasing Practices | 3 | 2 | 3 | 2 | 2 | 3 | 15 | | |
| Third-Party Relationships: Administration | 3 | 3 | 5 | 3 | 3 | 4 | 21 | | |
| STRS Ohio Self Insurance Plan | 3 | 2 | 3 | 2 | 3 | 3 | 16 | | |
| Unused Sick and Vacation Leave | 2 | 1 | 2 | 2 | 2 | 1 | 10 | | |
| | | | | | | | | | |

| | Risk Factors* | | | | | | | |
|---|---------------|-----|---|---|---|---|-------|--|
| Audit Area | Α | В | С | D | Е | F | Total | |
| | FINA | NCE | | | | | | |
| Accounts Payable | 2 | 1 | 2 | 1 | 2 | 2 | 10 | |
| Administrative Services: Postage | 2 | 2 | 2 | 1 | 2 | 3 | 12 | |
| Administrative Services: Security & Safety | 3 | 2 | 5 | 1 | 1 | 1 | 13 | |
| Annual Reporting | 2 | 3 | 2 | 2 | 2 | 2 | 13 | |
| Building Services: Maintenance | 3 | 2 | 3 | 2 | 2 | 2 | 14 | |
| Contribution Reporting | 1 | 3 | 1 | 1 | 3 | 5 | 14 | |
| Financial Reporting (STRS Ohio) | 2 | 2 | 2 | 2 | 3 | 4 | 15 | |
| Fixed Assets | 3 | 2 | 3 | 3 | 2 | 2 | 15 | |
| Investment Accounting | 3 | 5 | 5 | 1 | 5 | 5 | 24 | |
| Member Income Taxes | 1 | 1 | 2 | 2 | 4 | 5 | 15 | |
| Member Withdrawals | 2 | 1 | 2 | 2 | 2 | 2 | 11 | |
| Petty Cash/Café Operations | 2 | 2 | 2 | 3 | 1 | 1 | 11 | |
| Purchasing Service Credit by Payroll Deduction | 2 | 2 | 2 | 2 | 2 | 3 | 13 | |
| Tax Management | 3 | 5 | 5 | 1 | 3 | 4 | 21 | |
| Third-Party Relationships: Finance | 3 | 3 | 5 | 4 | 3 | 4 | 22 | |

| | Risk Factors* | | | | | | | |
|--|---------------|-------|--------|-------|---|---|-------|--|
| Audit Area | Α | В | С | D | Е | F | Total | |
| INFORMATIO | N TECH | NOLOG | GY SER | VICES | | | | |
| Active Directory/Azure | 5 | 3 | 5 | 1 | 3 | 3 | 20 | |
| Business Continuity Plan | 3 | 3 | 3 | 3 | 5 | 3 | 20 | |
| Cloud Computing/Infrastructure | 5 | 5 | 5 | 3 | 5 | 3 | 26 | |
| Compliance: B.Y.O.D. | 5 | 3 | 5 | 1 | 3 | 3 | 20 | |
| Data Analytics | 5 | 3 | 5 | 1 | 5 | 3 | 22 | |
| Data Management | 5 | 3 | 5 | 1 | 3 | 3 | 20 | |
| Data Privacy | 5 | 3 | 5 | 1 | 2 | 3 | 19 | |
| Data Warehouse | 5 | 3 | 5 | 1 | 5 | 3 | 22 | |
| Database Security | 3 | 3 | 3 | 1 | 4 | 3 | 17 | |
| Data Loss Prevention (DLP) | 3 | 3 | 3 | 1 | 3 | 3 | 16 | |
| Email Security | 3 | 3 | 3 | 3 | 5 | 3 | 20 | |
| Endpoint Security | 3 | 3 | 3 | 1 | 5 | 5 | 20 | |
| External Partners/Assessments | 3 | 3 | 3 | 1 | 4 | 5 | 19 | |
| Firewall Security | 5 | 3 | 3 | 1 | 5 | 3 | 20 | |
| I.T. Cloud/CASB | 5 | 5 | 5 | 1 | 5 | 3 | 24 | |
| I.T. Operations | 3 | 3 | 3 | 1 | 3 | 3 | 16 | |
| I.T. Security: Change Control | 4 | 3 | 3 | 3 | 3 | 3 | 19 | |
| I.T. Security: Cyber Vulnerabilities | 3 | 3 | 3 | 1 | 3 | 3 | 16 | |
| I.T. Security: HIPAA Security/Privacy | 5 | 3 | 5 | 1 | 5 | 3 | 22 | |
| I.T. Security: Logical/Physical Access | 3 | 3 | 3 | 1 | 5 | 3 | 18 | |
| I.T. Security: MRI | 3 | 3 | 3 | 1 | 3 | 3 | 16 | |
| I.T. Security: PeopleSoft Security | 3 | 3 | 3 | 3 | 4 | 3 | 19 | |
| I.T. Vendor Contract Management | 3 | 3 | 3 | 1 | 5 | 3 | 18 | |
| Incident Response Plan | 5 | 3 | 5 | 1 | 2 | 3 | 19 | |
| Intrusion Projection Services (IPS) | 5 | 3 | 5 | 1 | 5 | 3 | 22 | |
| Manage Requests | 3 | 3 | 3 | 1 | 3 | 3 | 16 | |
| Network Security | 5 | 5 | 5 | 3 | 5 | 3 | 26 | |
| Project Management (ITS Projects) | 4 | 3 | 3 | 3 | 3 | 3 | 19 | |
| Remote Access | 3 | 3 | 3 | 1 | 3 | 3 | 16 | |
| Social Engineering | 5 | 3 | 3 | 1 | 5 | 3 | 20 | |
| Web Security | 3 | 3 | 3 | 1 | 5 | 3 | 18 | |
| Wireless Security | 4 | 3 | 3 | 3 | 3 | 3 | 19 | |

| | Risk Factors* | | | | | | |
|-------------------------------------|---------------|--------------|---|---|---|---|-------|
| Audit Area | Α | В | С | D | Е | F | Total |
| | INVEST | IENTS | | | | | |
| Alternative Investments | 3 | 3 | 2 | 4 | 5 | 4 | 21 |
| Brokers/CSA/Research | 4 | 3 | 5 | 2 | 3 | 4 | 21 |
| Compliance | 4 | 5 | 5 | 1 | 4 | 4 | 23 |
| Consultants | 5 | 3 | 5 | 1 | 4 | 3 | 21 |
| Custodians/Record Keepers | 5 | 5 | 5 | 1 | 4 | 3 | 23 |
| Derivatives | 4 | 4 | 3 | 2 | 5 | 3 | 21 |
| Domestic Equities | 2 | 3 | 3 | 3 | 2 | 4 | 17 |
| External Management | 5 | 3 | 5 | 3 | 3 | 3 | 22 |
| Fixed Income | 2 | 3 | 2 | 3 | 2 | 4 | 16 |
| International Investing | 3 | 3 | 2 | 3 | 3 | 4 | 18 |
| Investment Performance (PBI Review) | 2 | 2 | 2 | 3 | 3 | 2 | 14 |
| Liquidity Reserves | 2 | 2 | 1 | 3 | 2 | 3 | 13 |
| Investments Operations | 5 | 5 | 5 | 5 | 3 | 4 | 27 |
| Proxy Voting | 2 | 2 | 1 | 3 | 2 | 3 | 13 |
| Real Estate | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| Securities Lending | 2 | 3 | 2 | 2 | 3 | 4 | 16 |
| Trading | 5 | 3 | 5 | 1 | 3 | 4 | 21 |

| | Risk Factors* | | | | | | |
|---|---------------|-------|----|---|---|---|-------|
| Audit Area | Α | В | С | D | Е | F | Total |
| ME | MBER B | ENEFI | TS | | | | |
| Annual Statements | 2 | 2 | 2 | 2 | 2 | 2 | 12 |
| Death Match | 3 | 3 | 3 | 2 | 3 | 3 | 17 |
| Defined Contribution Plan | 2 | 2 | 2 | 2 | 2 | 3 | 13 |
| Disability Benefits | 3 | 2 | 2 | 4 | 2 | 3 | 16 |
| Health Care | 3 | 2 | 2 | 2 | 3 | 4 | 16 |
| Member Data Processing | 3 | 3 | 2 | 2 | 2 | 2 | 14 |
| Member Data Management | 3 | 3 | 3 | 1 | 3 | 3 | 16 |
| Member Records Management | 2 | 3 | 2 | 2 | 2 | 2 | 13 |
| Member Services Center | 2 | 2 | 2 | 1 | 2 | 2 | 11 |
| Purchasing Service Credit | 2 | 3 | 2 | 2 | 2 | 2 | 13 |
| Recipient Benefit Processing | 2 | 2 | 3 | 2 | 3 | 3 | 15 |
| Reemployed Retirees | 2 | 3 | 2 | 2 | 2 | 2 | 13 |
| Service Retirement Benefits | 2 | 3 | 2 | 3 | 3 | 3 | 16 |
| Survivor Benefits | 3 | 2 | 2 | 3 | 2 | 3 | 15 |
| Third-Party Relationships: Member Benefits | 3 | 3 | 5 | 4 | 3 | 4 | 22 |

| | Risk Fa | k Factors* | | | | | |
|---|---------------|------------|----|----|----|----|-------|
| Audit Area | Α | В | С | D | Е | F | Total |
| ADM | /INIST | RATIO | N | | | | |
| Associate Travel Expenses | 18 | 8 | 7 | 6 | 5 | 8 | 52 |
| Attendance Reporting | 36 | 16 | 14 | 12 | 10 | 8 | 96 |
| Benefit Payment Process | 27 | 32 | 21 | 18 | 15 | 12 | 125 |
| Board Expenses | 9 | 8 | 7 | 6 | 5 | 4 | 39 |
| Fixed Assets — Computer Equipment | 27 | 32 | 14 | 18 | 15 | 16 | 122 |
| Flexible Spending Plans | 18 | 16 | 14 | 12 | 15 | 8 | 83 |
| HRS: Associate Payroll | 18 | 16 | 14 | 18 | 10 | 8 | 84 |
| HRS: Child Care Center | 18 | 16 | 14 | 12 | 10 | 4 | 74 |
| HRS: Educational Assistance Program | 18 | 16 | 14 | 12 | 10 | 8 | 78 |
| HRS: Exit Interview Management | 9 | 8 | 35 | 6 | 5 | 4 | 67 |
| Insurance/Risk Management | 18 | 16 | 7 | 6 | 10 | 8 | 65 |
| Legal: Contract Management | 27 | 16 | 21 | 12 | 20 | 20 | 116 |
| Legal: OEC Reporting | 9 | 16 | 7 | 12 | 10 | 4 | 58 |
| Legal: Records Management | 18 | 16 | 28 | 6 | 10 | 12 | 90 |
| Other Staff Expenses | 18 | 8 | 7 | 6 | 5 | 4 | 48 |
| Personal Investment Disclosure | 9 | 8 | 21 | 18 | 25 | 12 | 93 |
| Purchasing Practices | 27 | 16 | 21 | 12 | 10 | 12 | 98 |
| Third-Party Relationships: Administration | 27 | 24 | 35 | 18 | 15 | 16 | 135 |
| STRS Ohio Self Insurance Plan | 27 | 16 | 21 | 12 | 15 | 12 | 103 |
| Unused Sick and Vacation Leave | 18 | 8 | 14 | 12 | 10 | 4 | 66 |

| | Risk Factors* | | | | | | |
|---|---------------|-----|----|----|----|----|-------|
| Audit Area | Α | В | С | D | Е | F | Total |
| | FINA | NCE | | | | | |
| Accounts Payable | 18 | 8 | 14 | 6 | 10 | 8 | 64 |
| Administrative Services: Postage | 18 | 16 | 14 | 6 | 10 | 12 | 76 |
| Administrative Services: Security & Safety | 27 | 16 | 35 | 6 | 5 | 4 | 93 |
| Annual Reporting | 18 | 24 | 14 | 12 | 10 | 8 | 86 |
| Building Services: Maintenance | 27 | 16 | 21 | 12 | 10 | 8 | 94 |
| Contribution Reporting | 9 | 24 | 7 | 6 | 15 | 20 | 81 |
| Financial Reporting (STRS Ohio) | 18 | 16 | 14 | 12 | 15 | 16 | 91 |
| Fixed Assets | 27 | 16 | 21 | 18 | 10 | 8 | 100 |
| Investment Accounting | 27 | 40 | 35 | 6 | 25 | 20 | 153 |
| Member Income Taxes | 9 | 8 | 14 | 12 | 20 | 20 | 83 |
| Member Withdrawals | 18 | 8 | 14 | 12 | 10 | 8 | 70 |
| Petty Cash/Café Operations | 18 | 16 | 14 | 18 | 5 | 4 | 75 |
| Purchasing Service Credit by Payroll Deduction | 18 | 16 | 14 | 12 | 10 | 12 | 82 |
| Tax Management | 27 | 40 | 35 | 6 | 15 | 16 | 139 |
| Third-Party Relationships: Finance | 27 | 24 | 35 | 24 | 15 | 16 | 141 |

| | Risk Factors* | | | | | | |
|---------------------------------------|---------------|-------|--------|-------|----|----|-------|
| Audit Area | Α | В | С | D | Е | F | Total |
| INFORMATION | TECH | NOLOG | GY SER | VICES | | | |
| Active Directory/Azure | 45 | 24 | 35 | 6 | 15 | 12 | 137 |
| Business Continuity Plan | 27 | 24 | 21 | 18 | 25 | 12 | 127 |
| Cloud Computing/Infrastructure | 45 | 40 | 35 | 18 | 25 | 12 | 175 |
| Compliance: B.Y.O.D. | 45 | 24 | 35 | 6 | 15 | 12 | 137 |
| Data Analytics | 45 | 24 | 35 | 6 | 25 | 12 | 147 |
| Data Management | 45 | 24 | 35 | 6 | 15 | 12 | 137 |
| Data Privacy | 45 | 24 | 35 | 6 | 10 | 12 | 132 |
| Data Warehouse | 45 | 24 | 35 | 6 | 25 | 12 | 147 |
| Database Security | 27 | 24 | 21 | 6 | 20 | 12 | 110 |
| Data Loss Prevention (DLP) | 27 | 24 | 21 | 6 | 15 | 12 | 105 |
| Email Security | 27 | 24 | 21 | 18 | 25 | 12 | 127 |
| Endpoint Security | 27 | 24 | 21 | 6 | 25 | 20 | 123 |
| External Partners/Assessments | 27 | 24 | 21 | 6 | 20 | 20 | 118 |
| Firewall Security | 45 | 24 | 21 | 6 | 25 | 12 | 133 |
| .T. Cloud/CASB | 45 | 40 | 35 | 6 | 25 | 12 | 163 |
| .T. Operations | 27 | 24 | 21 | 6 | 15 | 12 | 105 |
| .T. Security: Change Control | 36 | 24 | 21 | 18 | 15 | 12 | 126 |
| .T. Security: Cyber Vulnerabilities | 36 | 32 | 35 | 6 | 25 | 12 | 146 |
| .T. Security: HIPAA Security/Privacy | 45 | 24 | 35 | 6 | 25 | 12 | 147 |
| .T. Security: Logical/Physical Access | 27 | 24 | 21 | 6 | 25 | 12 | 115 |
| .T. Security: MRI | 27 | 24 | 21 | 6 | 15 | 12 | 105 |
| .T. Security: PeopleSoft Security | 27 | 24 | 21 | 18 | 20 | 12 | 122 |
| .T. Vendor Contract Management | 27 | 24 | 21 | 6 | 25 | 12 | 115 |
| ncident Response Plan | 45 | 24 | 35 | 6 | 10 | 12 | 132 |
| ntrusion Projection Services (IPS) | 45 | 24 | 35 | 6 | 25 | 12 | 147 |
| Manage Requests | 27 | 24 | 21 | 6 | 15 | 12 | 105 |
| Network Security | 45 | 40 | 35 | 18 | 25 | 12 | 175 |
| Project Management (ITS Projects) | 36 | 24 | 21 | 18 | 15 | 12 | 126 |
| Remote Access | 27 | 24 | 21 | 6 | 15 | 12 | 105 |
| Social Engineering | 45 | 24 | 21 | 6 | 25 | 12 | 133 |
| Neb Security | 27 | 24 | 21 | 6 | 25 | 12 | 115 |
| Wireless Security | 36 | 24 | 21 | 18 | 15 | 12 | 126 |

| | Risk Factors* | | | | | | |
|-------------------------------------|---------------|--------------|----|----|----|----|-------|
| Audit Area | Α | В | С | D | Е | F | Total |
| | INVEST | IENTS | | | | | |
| Alternative Investments | 27 | 24 | 14 | 24 | 25 | 16 | 130 |
| Brokers/CSA/Research | 36 | 24 | 35 | 12 | 15 | 16 | 138 |
| Compliance | 36 | 40 | 35 | 6 | 20 | 16 | 153 |
| Consultants | 45 | 24 | 35 | 6 | 20 | 12 | 142 |
| Custodians/Record Keepers | 45 | 40 | 35 | 6 | 20 | 12 | 158 |
| Derivatives | 36 | 32 | 21 | 12 | 25 | 12 | 138 |
| Domestic Equities | 18 | 24 | 21 | 18 | 10 | 16 | 107 |
| External Management | 45 | 24 | 35 | 18 | 15 | 12 | 149 |
| Fixed Income | 18 | 24 | 14 | 18 | 10 | 16 | 100 |
| International Investing | 27 | 24 | 14 | 18 | 15 | 16 | 114 |
| Investment Performance (PBI Review) | 18 | 16 | 14 | 18 | 15 | 8 | 89 |
| Liquidity Reserves | 18 | 16 | 7 | 18 | 10 | 12 | 81 |
| Investments Operations | 45 | 40 | 35 | 30 | 15 | 16 | 181 |
| Proxy Voting | 18 | 16 | 7 | 18 | 10 | 12 | 81 |
| Real Estate | 27 | 24 | 21 | 18 | 15 | 12 | 117 |
| Securities Lending | 18 | 24 | 14 | 12 | 15 | 16 | 99 |
| Trading | 45 | 24 | 35 | 6 | 15 | 16 | 141 |

| | Risk Factors* | | | | | | |
|---|---------------|-------|----|----|----|----|-------|
| Audit Area | Α | В | С | D | Е | F | Total |
| ME | MBER B | ENEFI | TS | | | | |
| Annual Statements | 18 | 16 | 14 | 12 | 10 | 8 | 78 |
| Death Match | 27 | 24 | 21 | 12 | 15 | 12 | 111 |
| Defined Contribution Plan | 18 | 16 | 14 | 12 | 10 | 12 | 82 |
| Disability Benefits | 27 | 16 | 14 | 24 | 10 | 12 | 103 |
| Health Care | 27 | 16 | 14 | 12 | 15 | 16 | 100 |
| Member Data Processing | 27 | 24 | 14 | 12 | 10 | 8 | 95 |
| Member Data Management | 27 | 24 | 21 | 6 | 15 | 12 | 105 |
| Member Records Management | 18 | 24 | 14 | 12 | 10 | 8 | 86 |
| Member Services Center | 18 | 16 | 14 | 6 | 10 | 8 | 72 |
| Purchasing Service Credit | 18 | 24 | 14 | 12 | 10 | 8 | 86 |
| Recipient Benefit Processing | 18 | 16 | 21 | 12 | 15 | 12 | 94 |
| Reemployed Retirees | 18 | 24 | 14 | 12 | 10 | 8 | 86 |
| Service Retirement Benefits | 18 | 24 | 14 | 18 | 15 | 12 | 101 |
| Survivor Benefits | 27 | 16 | 14 | 18 | 10 | 12 | 97 |
| Third-Party Relationships: Member Benefits | 27 | 24 | 35 | 24 | 15 | 16 | 141 |

| Audit Area | Priority | Dept. | Risk Score | Last Audit | Estimated Audit Date | Risk Codes |
|---|----------|-------|---------------|---------------|-------------------------|----------------|
| I.T. Cloud/CASB | HIGH | ITS | 163 | 2021 | | F, I, C, O, PS |
| I.T. Security: Cyber Vulnerabilities | HIGH | ITS | 146 | 2019 | | F, I, C, O, PS |
| International Investing | HIGH | I | 114 | 2020 | | F, I, C, O |
| Domestic Equities | HIGH | I | 107 | 2019 | | F, I, C, O |
| Real Estate | HIGH | I | 117 | 2020 | | F, I, C, O |
| Derivatives | HIGH | I | 138 | 2019 | | F, I, C, O |
| Alternative Investments | HIGH | I | 130 | 2019 | | F, I, C, O |
| Fixed Income | HIGH | I | 100 | 2021 | | F, I, C, O |
| Liquidity Reserves | HIGH | | 81 | 2020 | | F, I, C, O |
| Board Expenses | HIGH | А | 39 | 2021 | 2022 | I, C, O, PS |
| Endpoint Security | HIGH | ITS | 123 | N/A | | F, I, C, O, PS |
| Network Security | HIGH | ITS | 175 | N/A | | F, I, C, O, PS |
| Cloud Computing/ Infrastructure | HIGH | ITS | 175 | N/A | 2022 | F, I, C, O, PS |
| I.T. Security: HIPAA Security/ Privacy | HIGH | ITS | 147 | N/A | | F, I, C, O, PS |
| Legal: Contract Management | HIGH | А | 116 | N/A | | F, I, C, O, PS |
| Investment Accounting | HIGH | F | 153 | N/A | | F, I, C, O, PS |
| Investment Operations | HIGH | I | 181 | N/A | | F, I, C, O |
| Compliance | HIGH | I | 153 | N/A | | F, I, C, O |
| Compliance: B.Y.O.D. | MED. | ITS | 137 | 2017 | 2022 | F, I, C, O, PS |
| Database Security | MED. | ITS | 110 | 2020 | | F, I, C, O, PS |
| I.T. Vendor Contract Management | MED. | ITS | 115 | 2020 | | F, I, C, O, PS |
| I.T. Operations | MED. | ITS | 105 | 2021 | | F, I, C, O, PS |
| I.T. Security: Change Control | MED. | ITS | 126 | 2020 | | F, I, C, O, PS |

Risk Codes:

F: Financial = Risk related to financial impact

I: Integrity = Risk related to accuracy of data or asset managed/presented

C: Compliance = Risk related to non-compliance with laws/regulations/internal policies

O: Operational = Risk related to operational efficiencies/inefficiencies

PS: Public Sensitivity = No material financial impact but high public sensitivity

| Audit Area | Priority | Dept. | Risk Score | Last Audit | Estimated Audit Date | Risk Codes |
|---|----------|-------|---------------|---------------|-------------------------|----------------|
| I.T. Security: Logical/Physical Access | MED. | ITS | 115 | 2020 | | F, I, C, O, PS |
| I.T. Security: PeopleSoft Security | MED. | ITS | 122 | 2017 | | F, I, C, O, PS |
| Business Continuity Plan | MED. | А | 127 | 2021 | | F, I, C, O |
| Member Data Management | MED. | MB | 105 | 2017 | | C, PS |
| Financial Reporting (STRS Ohio) | MED. | F | 91 | 2018 | | I, C, O |
| Service Retirement Benefits | MED. | MB | 101 | 2017 | 2022 | I, C, O |
| Annual Statements | MED. | MB | 78 | 2021 | | I, C, O |
| Health Care | MED. | MB | 100 | 2018 | | I, C, O |
| Contribution Reporting | MED. | F | 81 | 2020 | | I, C, O |
| Annual Reporting | MED. | F | 86 | 2020 | | I, C, O |
| Defined Contribution Plan | MED. | MB | 82 | 2020 | | I, C, O |
| Risk Management/Insurance | MED. | А | 65 | 2017 | 2022 | F, I, C, O |
| Accounts Payable | MED. | F | 64 | 2018 | | I, C, O |
| Data Analytics | MED. | ITS | 147 | N/A | | F, I, C, O, PS |
| Data Management | MED. | ITS | 137 | N/A | | F, I, C, O, PS |
| Data Privacy | MED. | ITS | 132 | N/A | | F, I, C, O, PS |
| Data Warehouse | MED. | ITS | 147 | N/A | | F, I, C, O, PS |
| Data Loss Prevention (DLP) | MED. | ITS | 105 | N/A | | F, I, C, O, PS |
| Email Security | MED. | ITS | 127 | N/A | | F, I, C, O, PS |
| External Partners/ Assessments | MED. | ITS | 118 | N/A | | F, I, C, O, PS |
| Firewall Security | MED. | ITS | 133 | N/A | 2022 | F, I, C, O, PS |
| Incident Response Plan | MED. | ITS | 132 | N/A | | F, I, C, O, PS |
| Intrusion Protection System (IPS) | MED. | ITS | 147 | N/A | | F, I, C, O, PS |

Risk Codes:

F: Financial = Risk related to financial impact

I: Integrity = Risk related to accuracy of data or asset managed/presented

C: Compliance = Risk related to non-compliance with laws/regulations/internal policies

O: Operational = Risk related to operational efficiencies/inefficiencies

PS: Public Sensitivity = No material financial impact but high public sensitivity

| Audit Area | Priority | Dept. | Risk Score | Last Audit | Estimated Audit Date | Risk Codes |
|--|----------|-------|---------------|---------------|-------------------------|----------------|
| Manage Requests | MED. | ITS | 105 | N/A | | F, I, C, O, PS |
| Project Management (IT Project) | MED. | ITS | 126 | N/A | | F, I, C, O, PS |
| Remote Access | MED. | ITS | 105 | N/A | | F, I, C, O, PS |
| Social Engineering | MED. | ITS | 133 | N/A | | F, I, C, O, PS |
| Web Security | MED. | ITS | 115 | N/A | | F, I, C, O, PS |
| Wireless Security | MED. | ITS | 126 | N/A | | F, I, C, O, PS |
| Third-Party Relationships: Member Ben. | MED. | MB | 141 | N/A | | F, I, C, O, PS |
| Third-Party Relationships: Finance | MED. | F | 141 | N/A | | F, I, C, O, PS |
| Third-Party Relationships: Administration | MED. | А | 135 | N/A | | F, I, C, O, PS |
| Active Directory/Azure | MED. | ITS | 137 | N/A | | F, I, C, O, PS |
| Legal: Records Management | MED. | Α | 90 | N/A | | F, I, C, O, PS |
| Tax Management | MED. | F | 139 | N/A | | F, I, C, O, PS |
| Trading | MED. | I | 141 | N/A | 2022 | F, I, C, O |
| External Management | MED. | I | 149 | N/A | | F, I, C, O |
| Custodians/Record Keepers | MED. | Ι | 158 | N/A | | F, I, C, O |
| Consultants | MED. | I | 142 | N/A | | F, I, C, O |
| Brokers/CSA/Research | MED. | I | 138 | N/A | 2022 | F, I, C, O |
| I.T. Security: MRI | LOW | ITS | 105 | 2020 | | F, I, C, O, PS |
| Benefit Payment Process | LOW | А | 125 | 2021 | | I, C, O |
| Member Income Taxes | LOW | F | 83 | 2017 | 2022 | I, C, O |
| Fixed Assets-Computer Equipment | LOW | А | 122 | 2018 | | I, C, O |
| Reemployed Retirees | LOW | MB | 86 | 2021 | | I, C, O |
| | | | | | | |

Risk Codes:

- F: Financial = Risk related to financial impact
- I: Integrity = Risk related to accuracy of data or asset managed/presented
- C: Compliance = Risk related to non-compliance with laws/regulations/internal policies
- O: Operational = Risk related to operational efficiencies/inefficiencies
- PS: Public Sensitivity = No material financial impact but high public sensitivity

| Audit Area | Priority | Dept. | Risk Score | Last Audit | Estimated Audit Date | Risk Codes |
|---|----------|-------|---------------|---------------|-------------------------|-------------|
| STRS Ohio Self Insurance Plan | LOW | А | 103 | 2020 | | I, C, O |
| Securities Lending | LOW | I | 99 | 2021 | | I, C, O |
| Fixed Assets | LOW | F | 100 | 2018 | | I, C, O |
| Personal Investment Disclosure | LOW | А | 93 | 2017 | 2022 | I, C |
| Disability Benefits | LOW | MB | 103 | 2018 | | I, C, O |
| Member Services Center | LOW | MB | 72 | 2021 | | С, О |
| Purchasing Service Credit by Payroll Deduction | LOW | F | 82 | 2019 | | I, C, O |
| Purchasing Practices | LOW | А | 98 | 2019 | | I, C, O, PS |
| Survivor Benefits | LOW | MB | 97 | 2017 | 2022 | I, C, O |
| Member Records Management | LOW | MB | 86 | 2020 | | C, O |
| Building Services: Maintenance | LOW | А | 94 | 2018 | | I, C, O |
| Administrative Services: Postage | LOW | А | 76 | 2018 | | I, C, O |
| Flexible Spending Programs | LOW | А | 83 | 2019 | | I, C, O |
| Attendance Reporting | LOW | А | 96 | 2018 | | I, C, O |
| HRS: Associate Payroll | LOW | А | 84 | 2020 | | I, C, O |
| Member Benefits Processing | LOW | MB | 95 | 2018 | | I, C, O |
| Investment Performance (PBI Review) | LOW | I | 89 | 2021 | 2022 | I, C, O |
| Member Withdrawals | LOW | F | 70 | 2017 | 2022 | I, C, O |
| HRS: Educational Assistance | LOW | А | 78 | 2019 | | I, C, O |
| Petty Cash/Café Operations | LOW | F | 75 | 2017 | | I, C, O, PS |
| | | | | | | |

Risk Codes:

F: Financial = Risk related to financial impact

I: Integrity = Risk related to accuracy of data or asset managed/presented

C: Compliance = Risk related to non-compliance with laws/regulations/internal policies

O: Operational = Risk related to operational efficiencies/inefficiencies

PS: Public Sensitivity = No material financial impact but high public sensitivity

| Audit Area | Priority | Dept. | Risk Score | Last Audit | Estimated Audit Date | Risk Codes |
|---|----------|-------|---------------|---------------|-------------------------|----------------|
| HRS: Child Care Center | LOW | А | 74 | 2021 | | I, C, O |
| Purchasing Service Credit | LOW | MB | 86 | 2020 | | I, C, O |
| Unused Sick and Vacation Leave | LOW | А | 66 | 2019 | | I, C, O |
| Associate Travel Expenses | LOW | А | 52 | 2017 | | I, C, O, PS |
| Other Staff Expenses | LOW | А | 48 | 2021 | | I, C, O, PS |
| Legal: OEC Reporting | LOW | А | 58 | 2020 | | I, C, O, PS |
| Proxy Voting | LOW | I | 81 | 2019 | | I, C, PS |
| HRS: Exit Interview Management | LOW | А | 67 | N/A | | F, I, C, O, PS |
| Administrative Services: Security & Safety | LOW | F | 93 | N/A | | C, O, PS |
| Recipient Benefits Processing | LOW | MB | 94 | N/A | | F, I, C, O, PS |
| Death Match | LOW | MB | 111 | N/A | 2022 | F, I, C, O, PS |

Risk Codes:

F: Financial = Risk related to financial impact

I: Integrity = Risk related to accuracy of data or asset managed/presented

C: Compliance = Risk related to non-compliance with laws/regulations/internal policies

O: Operational = Risk related to operational efficiencies/inefficiencies

PS: Public Sensitivity = No material financial impact but high public sensitivity