

STATE TEACHERS RETIREMENT SYSTEM OF OHIO

275 East Broad Street Columbus, OH 43215-3771 614-227-4090 www.strsoh.org

March 24, 2015

Ms. Bethany Rhodes, Director Ohio Retirement Study Council 88 E. Broad St., Suite 1175 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 2014.

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

Sincerely,

h

Michael J. Nehf Executive Director

Enclosure

RETIREMENT BOARD CHAIR ROBERT STEIN

RETIREMENT BOARD VICE CHAIR CAROL CORRETHERS

EXECUTIVE DIRECTOR MICHAEL J. NEHF

То:		1 0	оғ Оніо
Subject:	STRS Ohio Audit Committee Report – 2014		275 East Broad Street Columbus, OH 43215-3771
Date:	March 24, 2015		614-227-4090 www.strsoh.org

STATE TEACHERS

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, 2014. This report outlines the following: audit reviews completed during 2014; STRS Ohio Audit Committee meetings and actions; special reviews completed during 2014; and the 2015 Internal Audit Plan. Audit Committee members during 2014 were Craig Brooks (Chair), Tim Myers (Vice Chair), Craig Brooks, Mark Hill, Jim McGreevy, and Bob Stein (non-voting observer).

Audit Reviews Completed During 2014

The attached 2014 Internal Audit Summary lists the audits performed, the scope for each audit, the recommendations to management, management's response and expected implementation dates. The Internal Audit Summaries were mailed to all State Teachers Retirement Board Members in March, June, September and December 2014.

STRS Ohio Audit Committee Meetings and Actions

The Audit Committee met on June 19, 2014, at 9 a.m. Committee members Mr. Price, Mr. Myers, Mr. Brooks, Mr. McGreevy and Mr. Hill were in attendance. Board members Ms. Correthers and Mr. Stein were present as well as senior staff members.

The Committee reviewed and discussed the Quarterly Internal Audit Summary. Mr. Tackett informed the Committee that there were no material findings and that there was full cooperation from management. Management has accepted all recommendations and is in various stages of action-planning or implementation.

The meeting was adjourned at 9:10 a.m.

The Audit Committee met on Aug. 14, 2014. Committee members present were Mr. Myers, Mr. Brooks, Mr. Hill and Mr. McGreevy. Board members Mr. Stein and Ms. Correthers were also in attendance. Mr. Mayerfeld joined the meeting in progress. Staff present included Mr. Nehf, Mr. Snyder, Ms. Hoover, Mr. Tackett and Mr. Vance.

Kevin Rohrs of CliftonLarsonAllen, presented a summary of their plan for the 2013-14 financial statement audit and tentative schedule for issuing an audit report and management letter. Their overall risk assessment on this engagement is moderate, and CliftonLarsonAllen has identified investments, contributions, benefit payments and actuarial assumptions as critical audit areas. STRS Ohio will implement GASB 67 for the year ended June 30, 2014. The final audit report, including management letter, will be presented to the Audit Committee in December.

The meeting adjourned at approximately 9:44 a.m.

The Audit Committee met on Dec. 18, 2014, at 10:10 a.m. Committee members Mr. Brooks, Mr. Myers, Mr. Hill, and Mr. McGreevy were in attendance. Board members Mr. Price and Mr. Stein were present as well as senior staff members.

The committee reviewed and discussed the 2014 Internal Audit Summary. Mr. Tackett informed the committee that there were no material findings and that there was full cooperation from management. Management has accepted all recommendations and is in various stages of action-planning or implementation.

The 2015 Internal Audit Plan was presented for review and discussion. The committee had no changes to the 2015 Internal Audit Plan. There was general discussion related to preventive IT security measures at STRS Ohio since there was a recently publicized security breach at an out-of-state pension system.

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

Upon roll call the vote was as follows: Mr. Hill, yes; Mr. McGreevy, yes; Mr. Brooks, yes. Motion carried.

Public session resumed and the Audit Committee meeting was adjourned at 10:31 a.m.

Special Reviews/Projects

There were no special reviews, projects or engagements.

2015 Internal Audit Plan

The 2015 Internal Audit Plan was approved by the STRS Ohio Board on Dec. 18, 2014. A copy of the 2015 Plan is enclosed.

If you have any questions or need further information, please feel free to call me at (614) 227-2821.

Respectfully submitted,

David S. Tackett, CFA, CPA, CIA Chief Audit Executive



State Teachers Retirement System of Ohio

2014 Internal Audit Summary

		Summary	1	1	
Audit Area	Scope	Recommendations	Management's Response	Implemented	Implementation Date or Targeted Implementation Date
		Closed Audits			
Associate Payroll*	State and Federal Tax Regulations	Audit Did Not Result In Recommendations	N/A	N/A	N/A
	Access to Payroll Database				
	Accuracy of Associate Gross/Net Pay				
	Final Payments to Terminated Employees				
	Immigration Guidelines/Compliance				
Associate Travel	Prior Authorization	Audit Did Not Result in Recommendations	N/A	N/A	N/A
	Compliance with Travel Policy				
	Approval/Payment of Travel Expense				
Board Expenses	Preapproval of Travel	Audit Did Not Result in Recommendations	N/A	N/A	N/A
	Accuracy of Reimbursements				
	Compliance with Rules/Policies				
Call Center*	Associate Training	Create documented policies and	Agree	Yes	11/13/2013
	Scheduling of Call Center Associates	procedures that outline how and when to create and use the Key Performance			
	Monitoring of Associates	Indicator Report that aids in the tracking and management of Call Center performance			
Derivatives*	Derivative Exposure Report	Audit Did Not Result in Recommendations	N/A	N/A	N/A
	Currency Forward Settlements				
	SWAP Settlements				
	Equity SWAP Collateral				
	Segregation of Duties				
Educational Assistance	Compliance with Policy	Obtain G/L information from the Finance Dept. to aid in year-end reconciliations	Agree	Yes	12/31/2013
Fixed Income	Compliance	Audit Did Not Result In Recommendations	N/A	N/A	N/A
	Approved Brokers/Commissions				
	Accuracy of Pricing				
	Due Diligence				
	Monitoring of External Managers				
Investment Compliance	Identification of Key Policies	Revise the Investment Staff Guidelines and	Agree	Yes	8/1/2014
	Review of Controls	Procedures to include details and support- ing documentation on how key activities			
	Applicable Laws/Regulations	related to the monitoring of external mana- gers will be accomplished/controlled			
	Controls for Laws/Regulations				
Investment Performance	Review of PBI Memos	Audit Did Not Result In Recommendations	N/A	N/A	N/A
	Accuracy of PBI Awards				
	Investment Policy Compliance				

Audit Area	Scope	Recommendations	Management's Response	Implemented	Implementation Date or Targeted Implementation Date
IT Change Control**	Proper Authorizations	Ensure that a comprehensive change-	Agree	Yes	2/28/2014
	Proper Testing	management procedure is documented to outline all stages of the process			
	Proper Approvals	All user and ITS testing should be formally documented, authorized and approved by	Agree	Yes	2/28/2014
	Proper Monitoring	users and ITS prior to migration to pro- duction			
	Proper Segregation of Duties	Create a documented roll-back plan for all changes	Agree	Yes	3/31/2014
		Individuals responsible for making changes should be limited to development/test environments and functionally separated from production systems (Practicality, cost-benefit consideration resulted in Internal Audit accepting an alternative solution of increased monitoring)	Agree	Yes	6/30/2014
IT Operations**	Data Backup and Recovery	Regularly perform and document evidence	Agree	Yes	8/1/2014
	Job Scheduling and Administration	of successful system restores and data recoveries along with testing procedures			
IT Security/ Access**	Polices and Incidents Password Settings	Uniformly apply password security	Agreed ¹	Yes	6/30/2014
The Occurry Access	User Access	standards across all IT systems (Logical Access - Password Configuration)	Agreed	103	0/00/2014
	Physical Access	Annually complete STaRS access reviews (Logical Access- Periodic Access Reviews)	Agreed	Yes	6/04/2013
	Logical Access	Develop policy/procedures to manage the	Agreed	Yes	10/31/2013
	Privileged Access	monitoring and review of access to ITS critical areas (Physical Access - ITS Critical Areas and User Access)	Agroca		
		Log Maximis and STaRS MSS & ESS un- successful login attempts and monitor regularly to identify potential suspicious activity	Agreed	Yes	10/31/2013
		Set 'login' and 'rlogin (remote login)' values for root accounts to "False" to reduce the risks associated with elevated/privileged or unauthorized systems access	Agreed	Yes	6/04/2013
Other Staff Expenses	Compliance with Policies	Audit Did Not Result in Recommendations	N/A	N/A	N/A
	Accuracy of Board Reporting				
Purchasing Practices*	Compliance with Policies	Update the Policy for Approval of Admini- strative Expenses	Agree	Yes	6/4/2014
	Due Diligence/Efficient Use of Resource	Document the various levels of purchasing authority to the lowest signee	Agree	Yes	1/02/2014
	Receipt/Tracking of Goods and Services	Consider the potential benefits of partnering with other organizations	Agree	Yes	10/1/2013
Real Estate 2013*	Segregations Property Management Fees	for purchasing purposes Reevaluate the Budget Asset Management	Agree	Yes	8/12/2014
	Site Inspections	process to determine the appropriateness of benchmarking used by Real Estate Dept.			
	External Compliance Reviews	to award PBIs to asset managers	Agree	Yes	8/12/2014
	Tenant Surveys	Revise the Asset Management Manual to include the process for monitoring and			
	Compliance with Investment Policy	verifying monthly property management fees			
Securities Lending*	Compliance	Revise Investment Guidelines to explain the	Agree	Yes	6/30/2014
ž	Accuracy of Income	purpose and objectives of reviewing the SSAE 16 Report (Service Organization Control Report)			
	Approved Borrowers				
	Quality of Collateral				
	Counterparty Risk				

			Management's		Implementation Date or Targeted Implementation
Audit Area Unused Sick/Vacation Leave	Scope Compliance	Recommendations Audit Did Not Result In Recommendations	Response N/A	Implemented N/A	Date N/A
	Accuracy of Payments	Addit Did Not Result in Recommendations	1074	10/74	1975
	Disposition	Active Audits			
AIX/Windows Security v	Verify FTP Login is Restricted	Draft Report Under Management Review	N/A	N/A	N/A
	Disabled Default Accounts				
	Registry Access Permissions				
	Domain/AD Model				
	Account Lockout Settings				
	Update Access				
	Review Groups				
Alternative Investments*	Opportunistic/Diversified: Due Diligence	Draft Under Mgmt. Review	N/A	N/A	N/A
	Monitoring				
	Valuations				
Alternative Investments*	Private Equity: Due Diligence	Audit In Progress	N/A	N/A	N/A
	Monitoring				
	Valuations				
Database Security (Oracle)	Security and Password Configurations	Audit In Progress	N/A	N/A	N/A
	Access to Database Listeners				
	Default Accounts and Passwords				
	Host-Based Authentication Methods				
	General Password Settings				
Disability Benefits	Reexamination Schedules	Audit In Progress	N/A	N/A	N/A
	Medical Invoice Payments				
	Statement of Employment/Earnings				
	Terminated Benefits - Notification				
	Benefit Calculations				
Domestic Equities*	Compliance with Investment Policy	Audit in Progress	N/A	N/A	N/A
	Monitoring of External Portfolio Managers				
Financial Reporting	Role-Based Security/Segregation	Audit in Progress	N/A	N/A	N/A
	Adjusting Journal Entries				
	Disaster Recovery				
	Audit Trail Integrity				
Health Care	Records Retention/Management	Audit Initiates 12/19/2014	N/A	N/A	N/A
	Issues Monitoring and Resolution				
	Disbursement Reconciliations				
International Investigation	Segregation of Duties	Doving the foreign toy and the analysis	Final Dat Useda	N1/A	NI/A
International Investing*	External Manager Fees Monitoring of External Managers	Review the foreign tax reclaim process to reduce the risk of inaccurate or insufficient calculations and collection of receivable	Final Rpt Under Mgmt. Review	N/A	N/A
	Foreign Tax Reclamations	funds			
	Sub-Custodian Controls	Work with custodial bank to develop and deliver appropriate month-end reports			

A	2	December	Management's Response		Implementation Date or Targeted Implementation
	Audit Area Scope Recommendations vidity Reserves Compliance Audit Initiates 12/22/2014			Implemented N/A	Date N/A
Liquidity Reserves	Income Purchases/Sales	Audit Initiates 12/22/2014	N/A	N/A	N/A
Member Data Management*	Third-Party Access to Member Data	Require routine sign-off of data owners	Agree	No	2/28/2015
	Transmission of Member Data/Security Third-Party Operations/Control	to verify accuracy of tracking information related to the sharing and security of member data.	Agroc		2202010
	Contractual Agreements				
Member Income Taxes	Withholding Change Reconciliations Tax Interface Reconciliations	Review segregation of duties for shared access to STaRS processing screens	Agree	No	3/31/2015
Member Withdrawals	Segregation of Duties	Audit In Drogroop	N/A	N/A	N/A
Mender Wilhorawais	Compliance Refund Estimates/Payments Non-Zero Accounts Segregation of Duties	Audit In Progress	N/A	N/A	NA
Personal Investment Dis-	Compliance with Policies	Audit In Progress	N/A	N/A	N/A
closure	Accuracy/Completeness Monitoring				
Post-Retirement Benefits	Death Match	Audit Initiated	N/A	N/A	N/A
Service Retirement Benefits	Annuity Certain Expirations Overpayments/Collections Disbursement Compliance Departmental Process Documentation	Draft Report Stage	N/A	N/A	N/A
De la De G	Benefit Calculations Management of Overpayments Segregation of Duties	D. // D	NIA	A1/A	N/A
Survivor Benefits	Benefit Calculations	Draft Report Stage	N/A	N/A	N/A
	Student Benefits Segregation of Duties				
		nnounced/Unplanned Audits or Rev	iews		
Petty Cash	Reconciliations	Audit Did Not Result in Recommendations	N/A	N/A	N/A
	Proper Audit Trail				
	Segregation of Duties				
		Off-Audit Plan Work			
Area	Subject/Project	Description	nite to develop a pro-	ee for SToPC to	arform annual user
Internal Audit/I.T.S.	STaRS Redesign Project	Work with I.T.S. and other internal business u access reviews	This to develop a proces	s ior staks to pe	anorm annual user-
Multi-departmental	Authentication for ESS & MSS Project	Work with Web authentication group to resear	rch tools and technique	s to better safegua	rd member and
Multi-departmental	ACL (Audit Command Language - audit software) for Eligibility Files	Work with I.T.S. and other internal business u run for continuous audit purposes	nits to develop CAATs	(computer-assisted	d audit techniques) to
Multi-departmental	DLP (Data Loss Prevention)	Participate on the DLP Committee to impleme work at STRS	ent, monitor and evaluat	te the data loss pro	oduction as it should
Multi-departmental	STaRS Disaster Recovery	Participate in disaster recovery testing/review	for 2014		

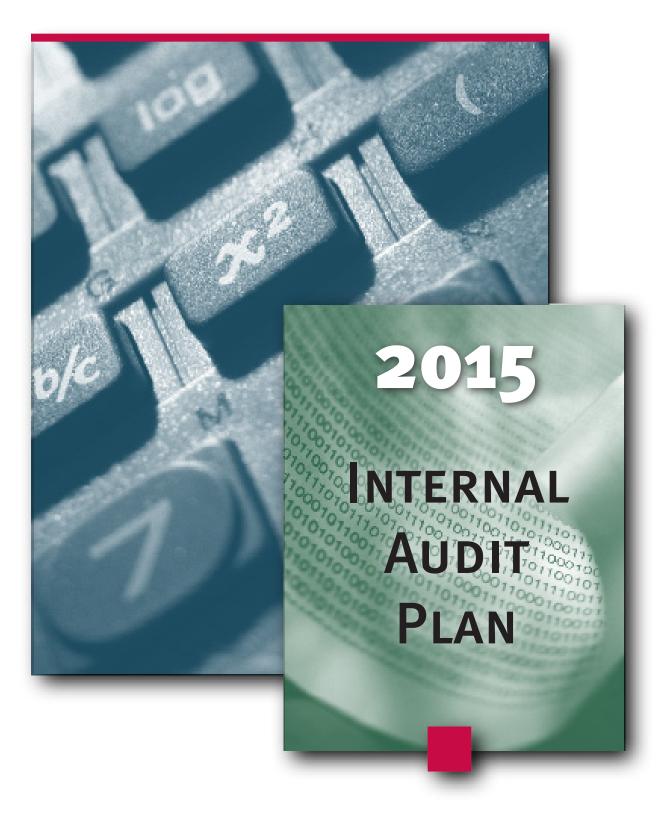
 Multi-departmental
 STaRS Disaster Recovery
 Participate in disaster recovery testing/review for 2014

 *Audits were listed as "Under Mgmt. Review", "In Progress", "Audit Initiated", or had not implemented recommendation(s) at the time of the last Annual Audit Summary presentation

 **Not on the 2013 Audit Plan. IT Auditor hired after Audit Plan preparation. Future 2013 IT audits will be highlighted with any other off-plan audit work performed

VNot on the 2014 Audit Plan. IT audit coverage need determined, and work performed, during the year (post 2014 Audit Plan creation).

"Agreed 1" (IT Security/Access): Consideration of industry practices, and wonpyor and member needs, and the intended benefits will be discussed by multi-departmental stakeholders. There is agreement that increased security measures should be discussed. Internal Audit accepted management's response to this recommendation and will follow-up on a future date.



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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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EXECUTIVE SUMMARY

2015 Internal Audit Schedule

DETAILED SUMMARY

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2015 INTERNAL AUDIT SCHEDULE

Audit Area	Description of Audit Area	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Child Care Center	Compliance with State Licensing State Inspections Tuition Payments Enrollment												
Benefit Payment Process	Accuracy of Monthly Forecast General Reconciliations G/L Postings Segregation of Duties												
OEC Reporting	Compliance												
Accounts Payable	Vendor Approval Process Vendor Payment History Compliance with Policy Segregation of Duties												
Attendance Reporting	Accuracy Compliance with Policy												
Fixed Assets	Tracking, Reporting, and Monitoring Depreciation Disposition												
Proxy Voting	Proxy Voting for Active Investments Compliance with Proxy Voting Policy												
Derivatives	Semi-Annual Derivative Exp. Report Currency Forward Settlements Equity Swap Settlements Counterparty Risk Equity SWAP Collateral Segregation of Duties												
Investment Performance	Review of PBI Memos Accuracy of PBI Awards Investment Policy Compliance												
Fixed Income Investments	Due Diligence Approved Brokers/Commissions Accuracy of Pricing Interest Income Monitoring of External Managers Compliance with Investment Policies												

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2015 INTERNAL AUDIT SCHEDULE

Audit Area	Description of Audit Area	Jan.	Feb.	Mar.	Apr.	Мау	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Fixed Assets — Computer Equipment	Purchasing Accuracy of Inventory Records Disposition												
IT Security: HIPAA	Awareness & Education Project Planning Electronic Transactions General Security												
Building Maintenance	Purchases of Goods and Services Preventive Maintenance Associate Training Quality Assurance												
Postage	Compliance with Policies/Procedures Disbursements												
Real Estate	Property Management Fees Site Inspections External Compliance Reviews Tenant Surveys Compliance with Investment Policy												
Board Expenses	Preapproval of Travel Accuracy of Reimbursements Compliance with Rules/Policies												
Alternative Investments	Due Diligence Proper Notification and Approval Monitoring Valuations												

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
E	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.

ASSIGNMENT OF RISK RATING

Risk Factors*											
Audit Area	Α	В	С	D	Е	F	Total				
ADMINISTRATION											
Associate Payroll	2	2	2	2	2	3	13				
Associate Travel Expenses	2	1	1	2	2	2	10				
Attendance Reporting	3	2	3	2	2	3	15				
Benefit Payment Process	3	4	3	3	3	3	19				
Board Expenses	2	1	1	2	2	2	10				
Building Maintenance	2	2	2	4	2	2	14				
Business Continuity Plan	3	3	3	3	4	3	19				
Child Care Center	2	2	2	2	2	2	12				
Educational Assistance Program	2	2	2	2	2	2	12				
Fixed Assets — Computer Equipment	3	3	3	3	3	3	18				
Flexible Spending Plans	2	2	3	2	2	2	13				
Insurance/Risk Management	2	2	1	2	2	2	11				
OEC Reporting	1	2	1	2	2	1	9				
Other Staff Expenses	2	2	2	1	1	1	9				
Personal Investment Disclosure	3	2	4	2	3	2	16				
Postage	3	2	2	2	2	3	14				
Purchasing Practices	3	2	3	2	2	3	15				
STRS Ohio Self Insurance Plan	3	3	3	2	3	3	17				
Unused Sick and Vacation Leave	2	1	2	2	2	1	10				

ASSIGNMENT OF RISK RATING

	Risk Factors*								
Audit Area	Α	В	С	D	Е	F	Total		
	FINAN	CE							
Accounts Payable	2	2	2	2	2	2	12		
Annual Reporting	2	3	2	2	2	2	13		
Contribution Reporting	2	3	2	2	2	3	14		
Financial Reporting (STRS Ohio)	3	3	2	2	4	4	18		
Fixed Assets	3	2	3	4	2	2	16		
Member Income Taxes	4	4	2	2	3	4	19		
Member Withdrawals	2	3	2	2	2	3	14		
Petty Cash/Café Operations	2	2	2	3	1	1	11		
Purchasing Service Credit									
by Payroll Deduction	2	4	2	2	3	2	15		

INFORMATION TECHNOLOGY SERVICES											
AIX/ Windows Security	5	3	5	1	5	5	24				
Database Security	5	3	5	1	5	5	24				
Internet/Intranet Security	2	3	3	2	3	3	16				
I.T. Operations	5	3	5	1	5	5	24				
I.T. Security: Change Control	5	3	3	3	5	5	24				
I.T. Security: Logical/Physical Access	5	3	3	1	5	5	22				
I.T. Security: HIPAA	5	3	5	1	5	5	24				

	INVEST	MENTS					
Alternative Investments	4	4	3	2	4	4	21
Derivatives	3	4	2	3	4	3	19
Domestic Equities	3	4	2	2	4	5	20
Fixed Income	2	4	2	3	3	3	17
International Investing	5	5	4	5	4	5	28
Investment Performance	2	2	2	2	3	2	13
Liquidity Reserves	2	3	2	2	2	2	13
Proxy Voting	2	2	2	2	2	1	11
Real Estate	3	4	3	3	3	3	19
Securities Lending	2	4	2	2	3	4	17

ASSIGNMENT OF RISK RATING

	Risk Factors*						
Audit Area	Α	В	С	D	Е	F	Total
MI	EMBER BI	ENEFIT	S				
Annual Statements	3	4	2	2	2	2	15
Member Services Center	2	2	2	1	2	2	11
Defined Contribution Plan	2	2	2	2	2	2	12
Disability Benefits	3	3	2	2	2	3	15
Health Care	3	3	2	2	3	4	17
Member Data Management	3	4	4	2	2	2	17
Benefit Services (Post Retirement)	3	4	2	2	2	2	15
Purchasing Service Credit	2	3	2	2	3	2	14
Members Records Management	2	2	2	2	2	2	12
Reemployed Retirees	3	4	3	3	2	2	17
Service Retirement Benefits	2	4	2	3	3	4	18
Survivor Benefits	3	3	2	3	2	3	16

RISK FACTORS WEIGHTED

	Risk Factors*							
Audit Area	Α	В	С	D	Е	F	Total	
AD	MINIST	RATIO	N					
Associate Payroll	18	16	14	12	10	12	82	
Associate Travel Expenses	18	8	7	12	10	8	63	
Attendance Reporting	27	16	21	12	10	12	98	
Benefit Payment Process	27	32	21	18	15	12	125	
Board Expenses	18	8	7	12	10	8	63	
Building Maintenance	18	16	14	24	10	8	90	
Business Continuity Plan	27	24	21	18	20	12	122	
Child Care Center	18	16	14	12	10	8	78	
Educational Assistance Program	18	16	14	12	10	8	78	
Fixed Assets — Computer Equipment	27	24	21	18	15	12	117	
Flexible Spending Plans	18	16	21	12	10	8	85	
Insurance/Risk Management	18	16	7	12	10	8	71	
OEC Reporting	9	16	7	12	10	4	58	
Other Staff Expenses	18	16	14	6	5	4	63	
Personal Investment Disclosure	27	16	28	12	15	8	106	
Postage	27	16	14	12	10	12	91	
Purchasing Practices	27	16	21	12	10	12	98	
STRS Ohio Self Insurance Plan	27	24	21	12	15	12	111	
Unused Sick and Vacation Leave	18	8	14	12	10	4	66	

RISK FACTORS WEIGHTED

	Risk Factors*						
Audit Area	Α	В	С	D	Е	F	Total
	FINA	NCE					
Accounts Payable	18	16	14	12	10	8	78
Annual Reporting	18	24	14	12	10	8	86
Contribution Reporting	18	24	14	12	10	12	90
Financial Reporting (STRS Ohio)	27	24	14	12	20	16	113
Fixed Assets	27	16	21	24	10	8	106
Member Income Taxes	36	32	14	12	15	16	125
Member Withdrawals	18	24	14	12	10	12	90
Petty Cash/Café Operations	18	16	14	18	5	4	75
Purchasing Service Credit							
by Payroll Deduction	18	32	14	12	15	8	99

INFORMATION TECHNOLOGY SERVICES												
AIX/ Windows Security	45	24	35	6	25	20	155					
Database Security	45	24	35	6	25	20	155					
Internet/Intranet Security	18	24	21	12	15	12	102					
I.T. Operations	45	24	35	6	25	20	155					
I.T. Security: Change Control	45	24	21	18	25	20	153					
I.T. Security: Logical/Physical Access	45	24	21	6	25	20	141					
I.T. Security: HIPAA	45	24	35	6	25	20	155					

	INVESTMENTS											
Alternative Investments	36	32	21	12	20	16	137					
Derivatives	27	32	14	18	20	12	123					
Domestic Equities	27	32	14	12	20	20	125					
Fixed Income	18	32	14	18	15	12	109					
International Investing	45	40	28	30	20	20	183					
Investment Performance	18	16	14	12	15	8	83					
Liquidity Reserves	18	24	14	12	10	8	86					
Proxy Voting	18	16	14	12	10	4	74					
Real Estate	27	32	21	18	15	12	125					
Securities Lending	18	32	14	12	15	16	107					

RISK FACTORS WEIGHTED

	Risk Factors*						
Audit Area	Α	В	С	D	Е	F	Total
М	EMBER B	ENEFI	TS				
Annual Statements	27	32	14	12	10	8	103
Member Services Center	18	16	14	6	10	8	72
Defined Contribution Plan	18	16	14	12	10	8	78
Disability Benefits	27	24	14	12	10	12	99
Health Care	27	24	14	12	15	16	108
Member Data Management	27	32	28	12	10	8	117
Benefit Services (Post Retirement)	27	32	14	12	10	8	103
Purchasing Service Credit	18	24	14	12	15	8	91
Member Records Management	18	16	14	12	10	8	78
Reemployed Retirees	27	32	21	18	10	8	116
Service Retirement Benefits	18	32	14	18	15	16	113
Survivor Benefits	27	24	14	18	10	12	105

2015 INTERNAL AUDIT WORK PLAN

		Duri	Risk	Last	Estimated Audit	
Audit Area	Priority	Dept.	Score	Audit	Date	Risk Codes
International Investing	HIGH		183	2013		F, I, C, O
Alternative Investments	HIGH	I	137	2014	Oct-15	F, I, C, O
Domestic Equities	HIGH	I	125	2014		F, I, C, O
Real Estate	HIGH		125	2013	Jun-15	F, I, C, O
Derivatives	HIGH		123	2013	Mar-15	F, I, C, O
Fixed Income	HIGH	I	109	2013	Apr-15	F, I, C, O
Liquidity Reserves	HIGH	I	86	2014		F, I, C, O
AIX/ Windows Security	MED.	ITS	155	2014		F, I, C, O, PS
Database Security	MED.	ITS	155	2014		F, I, C, O, PS
I.T. Security: Change Control	MED.	ITS	155	2013		F, I, C, O, PS
I.T. Security: Logical/Physical Access	MED.	ITS	153	2013		F, I, C, O, PS
I.T. Security: HIPAA	MED.	ITS	155	N/A	May-15	F, I, C, O, PS
Business Continuity Plan	MED.	А	122	2014		F,I, C, O
Member Data Management	MED.	MB	117	2013		PS, C
Financial Reporting (STRS Ohio)	MED.	F	113	2014		I, C, O
Service Retirement Benefits	MED.	MB	113	2013		I, C, O
Health Care	MED.	MB	108	2014		I, C, O
Annual Statements	MED.	MB	103	2013		I, C, O
I.T. Operations	MED.	ITS	102	2013		F, I, C, O, PS
Contribution Reporting	MED.	F	90	2012		I, C, O
Annual Reporting	MED.	F	86	2013		I, C, O
Accounts Payable	MED.	F	78	2012	Feb-15	I, C, O
Defined Contribution Plan	MED.	MB	78	2012		I, C, O
Risk Management/ Insurance	MED.	А	71	2013		F,I, C, O
Benefit Payment Process	LOW	А	125	2011	Mar-15	I, C, O
Member Income Taxes	LOW	F	125	2014		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

2015 INTERNAL AUDIT WORK PLAN

Audit Area	Priority	Dept.	Risk Score	Last Audit	Estimated Audit Date	Risk Codes
	FIIOIIty	Dept.	30016	Audit	Date	nisk coues
Fixed Assets — Computer Equipment	LOW	А	117	2012	May-15	I, C, O
Reemployed Retirees	LOW	MB	116	2012		I, C, O
STRS Ohio Self Insurance Plan	LOW	А	111	2012		I, C, O
Securities Lending	LOW	I	107	2013		I, C, O
Fixed Assets	LOW	F	106	2012	Feb-15	I, C, O
Benefit Services (Post Retirement)	LOW	MB	103	2014		I, C, O
Purchasing Service Credit by Payroll Deduction	LOW	F	99	2012		I, C, O
Purchasing Practices	LOW	А	98	2013		I, C, O, PS
Attendance Reporting	LOW	А	98	2010	Feb-15	I, C, O
Survivor Benefits	LOW	MB	92	2014		I, C, O
Postage	LOW	А	91	2012	Jun-15	I, C, O
Purchasing Service Credit	LOW	MB	91	2012		I, C, O
Building Maintenance	LOW	А	90	2012	May-15	I, C, O
Member Withdrawals	LOW	F	90	2014		I, C, O
Personal Investment Disclosure	LOW	А	106	2014		I, C
Disability Benefits	LOW	MB	99	2014		I, C, O
Flexible Spending Programs	LOW	А	85	2013		I, C, O
Associate Travel Expenses	LOW	А	63	2014		I, C, O, PS
Investment Performance	LOW	I	83	2014	Apr-15	I, C, O
Associate Payroll	LOW	А	82	2013		I, C, O
Board Expenses	LOW	А	63	2014	Sep-15	I, C, O, PS
Educational Assistance Program	LOW	А	78	2013		I, C, O
Child Care Center	LOW	А	78	2011	Jan-15	I, C, O
Member Records Management	LOW	MB	78	2012		C, O
Other Staff Expenses	LOW	А	63	2014		I, C, O, PS

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O: Operational = Risk related to operational efficiencies/inefficiencies

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

2015 INTERNAL AUDIT WORK PLAN

Audit Area	Priority	Dept.	Risk Score	Last Audit	Estimated Audit Date	Risk Codes
Petty Cash/Café Operations	LOW	F	75	2014		I, C, O, PS
Proxy Voting	LOW	Ι	74	2012	Mar-15	I, C
Member Services Center	LOW	MB	72	2013		C, O
Unused Sick and Vacation Leave	LOW	А	66	2013		I, C, O
OEC Reporting	LOW	А	58	2008	Feb-15	I, C, O, PS

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- O: Operational = Risk related to operational efficiencies/inefficiencies
- PS: Public Sensitivity = No material financial impact but high public sensitivity