

**PUBLIC SCHOOL RETIREMENT SYSTEM
OF THE CITY OF ST. LOUIS
INVESTMENT AND OPERATING GUIDELINES,
February 24, 2025**

I. GENERAL

- A. The Public School Retirement System of the City of St. Louis ("PSRSSTL") is a defined benefit retirement plan established to provide retirement benefits to participants in accordance with the specific provisions of R.S. Mo. §§169.410 -169.540 and the general provisions of R.S. Mo. §§169.560 - 169.597 and R.S. Mo. §§ 105.660 - 105.691 (collectively the "PSRSSTL Statutes").
- B. These Investment and Operating Guidelines are issued pursuant to Rule XIV of the PSRSSTL Rules and Regulations for the guidance of fiduciaries, including the PSRSSTL staff, investment consultant, other investment professionals and the investment managers ("Managers") in the course of investing the retirement funds ("Fund") of the PSRSSTL and to assist in measuring the performance of the Managers and the Fund. These guidelines supplement the formal Investment Policies of the PSRSSTL Board of Trustees as set forth in Chapter A, Rule XIV of the PSRSSTL Rules and Regulations and should be read in conjunction therewith.

II. PERFORMANCE OBJECTIVES

- A. Total return on Fund assets shall consistently rank in the top half of the investment consultant's Public Total Funds Universe and shall meet or exceed the return of the PSRSSTL Policy Index. "Total return", as used herein, includes income less expenses plus realized and unrealized gains and losses in the PSRSSTL assets. (See Appendix I for an explanation of the Policy Index.)
- B. Appendix III to these guidelines provides specific guidance regarding individual Manager assignments or classifications, benchmarks, and guideline exceptions. Appendix III, combined with the applicable sections of these guidelines and the PSRSSTL Rule XIV, provide a complete statement of investment objectives, rules and guidelines for each investment Manager, exclusive of rules or guidelines directly incorporated into contracts or other similar agreements.
- C. Total Fund risk exposure and risk adjusted returns will be regularly evaluated and compared to the investment consultant's appropriate third-party Public Total Funds Universe. Total Fund risk exposure is expected to be midrange (25th to 75th percentile) relative to the investment consultant's universe of public total funds. Risk-adjusted returns are expected to rank consistently in the top half of the investment consultant's Public Total Funds Universe over time. (See Appendix I for an explanation of risk adjusted returns.)
- D. Equity Managers
 - 1. Total return for domestic equity specialist Managers shall meet or exceed an appropriate index based on the Manager's style and consistently rank in the top half of the investment consultant's appropriate Fund Universe as outlined in Appendix III.
 - 2. Total return for international equity specialist Managers shall meet or exceed an appropriate index based on the Manager's style and consistently rank in the top half of the investment consultant's appropriate Fund Universe as outlined in Appendix III.

3. Total return for Emerging international equity Managers shall meet or exceed an appropriate index based on the Manager's style and rank in the top half of the investment consultant's appropriate Fund Universe as outlined in Appendix III.
4. Total return for Global Equity Managers shall meet or exceed an appropriate index based on the Manager's style and rank in the top half of the investment consultant's appropriate Fund Universe as outlined in Appendix III.

E. Fixed-Income Managers

1. Total return for domestic fixed-income Managers shall consistently meet or exceed an appropriate index based on the Manager's style, and consistently rank in the top half of the investment consultant's appropriate domestic Fixed Income Fund Universe as outlined in Appendix III.
2. Total return for specialist fixed income Managers, including but not limited to global, absolute return, TIPS, and Emerging Markets fixed income shall meet or exceed an appropriate index based on the Manager's style and consistently rank in the top half of the investment consultant's appropriate universe of Fixed Income Specialist managers as outlined in Appendix III.

F. Real Estate Managers

1. The Total Return for Real Estate Managers shall meet or exceed an appropriate index based on the Manager's strategy and to rank in the top half of the investment consultant's appropriate real estate fund universe as outlined in Appendix III.

G. Global Asset Allocation Managers (GAA)

1. The Total Return for Global Asset Allocation Managers shall meet or exceed an appropriate index based on the Manager's strategy and to rank in the top half of the investment consultant's appropriate GAA fund universe as outlined in Appendix III.

H. Hedge Fund Managers

1. The Total Return for Hedge Fund Managers shall meet or exceed an appropriate index based on the Manager's strategy and to rank in the top half of the investment consultant's appropriate hedge fund manager fund universe as outlined in Appendix III.

I. Private Capital Market Investments, as defined in Rule XIV

1. Achieve a market rate of return commensurate with the perceived risk for each investment undertaken.
2. Investment returns will be compared to the return on similar investments that originated during the same period based on an internal rate of return.
3. Investment returns will be compared to an appropriate Public Market Equivalent benchmark reflecting cash flows and timing of the respective investment.

- J. Normally results will be evaluated over a three-year to five-year time horizon, but shorter-term results will be reviewed regularly and earlier action taken if the Board of Trustees, in its sole discretion, determines such action to be in the best interest of the Fund.

III. ASSET ALLOCATION POLICY

In order to have a reasonable probability of consistently earning the long-term target return, the PSRSSTL Board of Trustees ("Trustees") has adopted the asset allocation policy contained as Appendix II to these guidelines.

IV. REBALANCING

The PSRSSTL asset allocation shall be maintained within the ranges outlined in Appendix II and normal cash flows (contributions, benefit payments and expense) shall be managed in a manner to maintain compliance with and rebalance toward Policy targets and ranges. Should the asset allocation or manager allocations vary from the policy ranges at the end of any quarter, the asset mix shall be rebalanced as soon as practical to fall within the ranges either by direction of cash flow, shifting of assets, or both. Rebalancing is to be accomplished by the PSRSSTL Executive Director and staff in coordination with the Investment Consultant, Custodian and the respective Managers providing liquidity.

V. INVESTMENT GUIDELINES

A. Rule XIV authorizes the adoption of such policies, procedures and limitations as are necessary, advisable or appropriate for the management of the Fund or any asset class component of the Fund. Toward this end, Managers shall manage their holdings in compliance with the provisions set forth below.

B. Domestic Equity Managers

1. Equity Managers will be expected to manage their holdings in order to maximize net long-term returns. It is contemplated that the equity specialist Managers, except the equity component of balanced portfolios, shall normally be fully invested, maintaining a 90-100% equity commitment level. Managers should determine that the securities to be purchased are of an investment grade suitable for their accounts.
2. A single company, except mutual funds, shall neither exceed 10% of the market value of an equity Manager's total portfolio at purchase nor increase to 15% of the Manager's total portfolio.
3. No purchase shall be made by a Manager, which would cause a holding to exceed 10% of the market value of the issue outstanding.
4. There shall be no short selling, securities lending, use of financial futures or other specialized investment activity without the prior approval of PSRSSTL.
5. Equity Managers may invest up to 10% of their portfolios in reserve and cash equivalent investments. However, these investments should be made primarily on the basis of safety and liquidity and only secondarily by yield available. Such securities shall carry ratings the equivalent of Standard & Poor's Corporation A1 or Moody's Investors Service, Inc. P-1.

C. Domestic Fixed-Income Managers

1. Fixed-income securities are to be selected and managed to ensure appropriate quality and maturity exposure, consistent with these guidelines and current money market and economic conditions. "Active" bond management (both for the fixed-income portion of the balanced portfolios and within fixed-income specialist portfolios) is encouraged, as deemed appropriate by the Managers.

Fixed-income specialists, except the fixed-income portion of balanced portfolios, may vary their bond commitments from 90-100% of assets under their discretion.

2. As provided in the PSRSSTL Rule XIV, domestic debt securities may include U.S. Government and Agency obligations, corporate bonds, asset backed securities, agency guaranteed mortgage pass-through securities, and low risk collateralized mortgage obligations of comparable or lower risk, such as Planned Amortizations Class Level 1 and Sequentials, commercial paper, certificates of deposit and other instruments deemed prudent by the Managers.
3. No security, except issues of the U.S. Government or its agencies or mutual funds, shall comprise more than 6% of the Manager's total portfolio of assets, measured at market. Further, no individual portfolio shall purchase more than 6% or hold more than 10% of its assets in the securities of any single issuer, excepting issues of the U.S. Government or its agencies. (For mortgage-backed securities, an issuer is defined as a separate trust.)
4. The average duration (interest rate sensitivity) of an actively managed portfolio shall remain within 75% to 125% of the Manager's respective benchmark duration. (See Appendix I for an explanation of "duration".)
5. The prudent diversification of securities by maturity, quality, sector and coupon is a discretionary responsibility of the Managers.
6. There shall be no use of options, financial futures or other specialized investment activity without the prior approval of PSRSSTL.
7. The overall average quality of each high-grade fixed income portfolio shall be AA or better. The average quality rating of the securities held in a high yield portfolio shall be "B" or better. For split rated issues, for the purposes of meeting credit quality standards, the middle rating shall be considered (if rated by all three agencies), and the lower of the two ratings shall be considered (if rated by only two agencies). For issues rated by only one agency, that agency's rating shall be considered for the purposes of meeting credit quality standards.

D. International Equity Managers

1. International equity securities are expected to be issued by non-US. corporations, although the Manager, if authorized, may have latitude to hold U.S. securities provided that such investments are consistent with attainment of the portfolio's investment objective. An international equity Manager employing an active currency management program may, upon specific authorization of PSRSSTL, deal in futures and options within the discipline of that currency management program provided that use is not to leverage risk exposure.
2. These portfolios should be considered as "equity funds" and shall normally be fully invested, maintaining a 90-100% equity exposure.
3. Decisions as to the prudent diversification of portfolios, including number of international equity issues held and their geographic distribution shall be left to the Managers, provided that equity holdings in any one company, excluding mutual funds, may not exceed 6% of the market value of the Manager's total portfolio without the consent of the Trustees.
4. Short-term reserves may be held in U.S. dollar denominated securities or investment vehicles available through the PSRSSTL custodian.

5. Subject to limitations that may be contained in PSRSSTL Rule XIV, Managers may enter into forward exchange contracts on currency provided that use of such contracts is designed to dampen portfolio volatility or to facilitate settlement of securities transactions, rather than to leverage portfolio risk exposure.

E. Opportunistic Bond Managers

1. PSRSSTL opportunistic fixed-income portfolios including, but not limited to global, Emerging Markets, TIPS and Absolute Return should be considered as "bond funds" and shall normally be fully invested, maintaining a 90-100% bond exposure.
2. Short-term reserves may be held in U.S. dollar denominated securities or investment vehicles available through the PSRSSTL custodian or sub-custodian banks. Short-term funds must be rated A1 (S&P) or P1 (Moody's) or the equivalent using similar credit criteria.
3. Prudent diversification decisions as to the number of issues held and their geographic distribution shall be left to the Manager.
4. Upon specific authorization of the Trustees, opportunistic Managers may employ an active currency management program and deal in futures and options within the discipline of that currency management program. In the context of an active currency management program, cross currency and proxy hedging is allowed. The use of such contracts is designed to dampen portfolio volatility rather than leverage portfolio risk exposure. Currency contracts may also be used to either hedge the portfolio's currency risk exposure or in the settlement of securities transactions.
5. The overall average quality of each opportunistic fixed-income portfolio shall be A or higher. Non-rated issues may be purchased, provided that in the judgment of the Manager, they are of a quality sufficient to maintain the average overall portfolio quality of A or higher.
6. The average duration (interest rate sensitivity) of an actively managed opportunistic fixed-income portfolio shall not differ from that of the respective passive benchmark (as outlined in Appendix III) by more than 75% to 125%.

F. Global Asset Allocation (GAA) Managers

1. Global Asset Allocation Strategies are allowed, where the manager has the ability to invest in, but is neither limited by nor required to hold, domestic, international and emerging equities and bonds, investments in real assets, such as commodities and real estate, and derivative products. The Manager will employ a global tactical asset allocation strategy that can change the capital structure of the fund at any time as market conditions dictate within the strategy guidelines of the Manager. These strategies may employ either a passive or active / tactical approach with regard to how the assets are invested. These strategies should be employed to improve the overall portfolio's diversification and to provide attractive risk-adjusted returns. These strategies may include products that are focused on generating absolute or real returns, compared to other strategies in the portfolio which may be more benchmark sensitive.
2. Fully covered or protected investments using options, futures or short sales are permitted in the interest of reducing volatility and protecting capital or changing asset mix.

G. Private Market Investments

1. Private capital markets investments are intended to enhance the diversification of the Fund and to achieve a market rate of return commensurate with the perceived risk of each investment.
2. All investments must have a mechanism for exit acceptable to the Trustees. The Trustees, after reviewing the totality of an investment's terms and acting in consultation with the PSRSSTL's Investment Consultant and other plan professionals, shall have sole discretion in determining whether an investment has an acceptable mechanism for exit, which could include, but is not necessarily limited to the right to sell or transfer the PSRSSTL's interest in the investment to a third party without the investment manager unreasonably withholding its consent to such transfer or sale.
3. References on the sponsor, investment adviser, manager, general partner or other person(s) performing substantially the same function (regardless of title) must be checked prior to investing in a fund, partnership or other investment vehicle.
4. An investment screening and review committee may be established to pre-qualify investment proposals. Evaluation of proposals will address the manager, the fund focus and strategy, and the fund structure.
5. The private markets investments will be prudently diversified to reduce the risk of any single investment on the total Fund.
6. No more than 25% of the assets earmarked for private markets should be invested with a single manager, general partner, or single fund, with the exception of fund of funds.
7. Preference will be given to those funds where the general partner is contributing at least 1% of the total fund.
8. Reserves for future alternative investments may be held in any liquid asset classes in compliance with the Asset Allocation Policy Ranges, as appropriate, subject to the investment guidelines for such investments.
9. Because commitments to most private market investments are drawn down over time, actual investments are usually less than committed investments. To compensate for this, the Fund may commit more than the target allocation, perhaps as much as twice the target allocation, to private market investments in order to achieve the actual investment target.

H. Hedge Funds and Fund of Funds

1. The primary objective of these strategies is to provide positive absolute return throughout a market cycle, as well as provide increased diversification to the portfolio.
2. Each investment should fall within the expected risk and return characteristics historically displayed by domestic fixed income and public domestic equity investments.
3. Leverage may be employed by direct manager investment and sub-advisors/managers within a specific fund of hedge funds. Fund of Funds managers shall not employ leverage at the Fund of Funds level.

I. Real Estate Investments

1. The role of the real estate segment is to provide a stable return premium, after inflation, and to increase the diversification of the overall Fund.
2. Real Estate Managers will have full discretion to prudently invest and diversify portfolios in accordance with the terms of their investment strategies. It is expected that the Managers will adhere to their stated philosophies and that any material deviation will be communicated promptly to the Trustees.

J. General Guidelines

1. Full discretion shall be granted to the Managers regarding their prudent portfolio diversification, the selection of securities, and the timing of transactions, within the parameters of the objectives and guidelines described herein and in PSRSSTL Rule XIV.
2. While PSRSSTL is sensitive to excessive turnover, there shall be no specific limitation in this regard, recognizing the importance of providing flexibility to the Managers to adjust their asset mix in changing market conditions.
3. The flexible management of the portfolio is permitted, and while PSRSSTL is appropriately sensitive to book losses, there is no justification to hold a particular security, or to manage the collective assets, for the sole purpose of avoiding the recognition of a book loss.
4. For purposes of this Policy and Guidelines pooled funds may include, but are not limited to, mutual funds, commingled funds, collective investment trusts (CIT), and limited partnerships. Pooled funds may be governed by separate documents which may include investments not expressly permitted in this Policy and Guidelines as they pertain to separately managed accounts. In the event of an investment by PSRSSTL into a pooled fund, the prospectus or governing policy of that pooled fund, as updated from time to time, shall be treated as an addendum to this Investment Policy Statement and Guidelines.

V. BENEFIT AND EXPENSE PAYMENTS

Managers should assume that withdrawals may be made from their portfolios from time to time to pay benefits and expenses. The PSRSSTL Executive Director shall provide an annual projection of cash needs, updated on an interim basis, and an estimate of the drawdown requirements from their portfolios. Accordingly, appropriate liquidity should be maintained to fund these withdrawals without impairing the investment process.

VI. STANDARDS OF INVESTMENT PERFORMANCE

Performance of the Fund and individual Managers will be evaluated on a regular basis. Consideration will be given to the degree to which performance results meet the goals and objectives as set forth herein and in PSRSSTL Rule XIV. Toward that end, the following standards will be used in evaluating investment performance.

- A. Managers will be deemed to have performed satisfactorily when compared with:
1. the objectives set, and
 2. other similarly managed funds.

- B. In addition to reviewing each Manager's results, PSRSSTL will re-evaluate, from time to time, its progress **in** achieving the objectives set for the Fund overall. This re-evaluation will involve an assessment of the continued appropriateness of (1) the manager structure; (2) the allocation of assets among the Managers; and (3) the investment objectives for the Fund.
- C. The Trustees may appoint investment consultants to assist in the ongoing evaluation process. The consultants selected by the Trustees are expected to be familiar with the investment practices of similar retirement plans and will be responsible for suggesting appropriate changes in the investment program over time.

VII. WATCH LIST/ PROBATION

- A. A Manager may be placed on a watch list or on probation in response to significant changes in the ownership structure or key personnel; anticipated changes in the investment process; concerns about the Manager's recent or long-term investment results; failure of the Manager to comply with the investment guidelines or other sep rate instructions; legal or regulatory concerns, or, any other event which the Trustees conclude may lead to a change in the Manager's status with the Fund. This is a guide for action, and notwithstanding the provisions herewith, the Trustees reserve the right to immediately place a manager on probation or to take immediate action to terminate a Manager for any reason at their sole discretion.
- B. The process leading toward probationary status with regard to long term under-performance will normally be as follows:

A Manager will be placed on probationary status if any 2 of the following conditions exist:
 - 1. the Manager has failed to meet the return of the benchmark index over a rolling 3-year period
 - 2. the Manager has failed to meet the return of the benchmark index over a rolling 5-year period
 - 3.
 - 4. the return has not achieved median ranking in comparison to the Manager's assigned peer group over a rolling 3-year period.
 - 5. the return has not achieved median ranking in comparison to the Manager's assigned peer group over a rolling 5-year period.
- C. A Manager may be placed on the watch list or on probation for under-performance in a lesser time period or other actions may be taken if deemed appropriate.
- D. Any Manager on the watch list or in probationary status will not be eligible to receive additional investment funds.

VIII. REPORTING REQUIREMENTS

- A. Managers shall promptly report on the following as soon as they occur:
 - 1. Discovery of a material violation of the investment guidelines contained in this Investment Policy Statement;
 - 2. A significant change in investment strategy, portfolio structure, or market value or liquidity of managed assets;
 - 3. A significant change, in the ownership affiliations, organizational structure, financial condition, professional staffing, or clientele of the Investment Manager;

4. Sanctions against the firm or its employees by any state or federal governmental or regulatory agency, or the Financial Industry Regulatory Authority (FINRA), to the extent permissible by law.
- B. Quarterly reports provided by each Manager within 30 days after the end of each calendar quarter shall contain the following information:
1. Review of Organizational Structure
 - a. Organizational changes (i.e., ownership)
 - b. Departures of/ additions to key investment staff
 - c. Total assets and accounts for product managed for the System
 - d. Change in assets/accounts (i.e., Gains\$/ Losses\$) since last report
 2. Summary of Investment Guidelines
 - a. Summarize guidelines and objectives
 - b. Discuss adherence to guidelines
 - c. Provide any comments and suggestions regarding policy constraints, guidelines, etc.
 3. *Review of Investment Process and Evaluation of Portfolio Management Process*
 - a. Brief review of investment process
 - b. Discussion of any changes to the investment process
 - c. Investment strategy used over the past quarter and underlying rationale
 - d. Evaluation (in hindsight) of strategy's success/disappointments
 - e. Current investment strategy and underlying rationale
 4. Performance Review
 - a. Present total portfolio and asset class returns for last quarter, year-to-date, last year, three years and five years, and since inception versus designated benchmarks.
 - b. Discuss performance relative to benchmarks. (International equity Managers should provide attribution analysis which identifies returns due to country allocation, stock selection, duration and currency decisions).
 - c. Provide portfolio characteristics relative to benchmark.
 5. Derivatives Review
 - a. A list of all derivative positions as of quarter-end.
 - b. An assessment of how the derivative positions affected the risk exposure of the total portfolio.
 - c. An explanation of any significant pricing discrepancies between the Manager and the PSRSS1L custodian bank.
 - d. A statement certifying compliance with PSRSS1L Rule XIV and these investment guidelines throughout the quarter; or, if the portfolio has been out of compliance, an explanation.
 6. Provide Portfolio Holdings
 - a. Present book value and current market value.

- b. List individual securities by:
 - (i) Standard and Poor's Corporation sectors for domestic equities
 - (ii) Countries and by industry within country for international equities
 - (iii) Sector for domestic fixed income
 - (iv) Country, and, for corporate bonds (if any), by industry within country for global fixed income.
- c. In the case of mutual funds, a statement showing: (1) the fund holdings broken out, minimally, by equity, fixed-income, cash equivalents and uninvested cash balances and (2) fund positions, by individually-named securities.

C. Annual Reporting

The annual reports submitted to the PSRSSTL Trustees, staff and investment consultant shall contain the following information:

1. Proxy Voting

- a. PSRSSTL may, from time to time, or at any time, retain responsibility for the exercise of ownership rights through proxy solicitations, in which case the Managers shall have no responsibility for proxy voting. If the Trustees delegate to the Managers responsibility for the exercise of ownership rights through proxy solicitations, the Managers shall exercise this responsibility strictly for the economic benefit of the Fund and its participants. Annually, Managers shall describe their standing policies with respect to proxy voting, including any changes that have occurred in those policies.
- b. The proxy votes for all shares of stock in companies held on behalf of PSRSSTL, specifically noting any instances where proxies were not voted in accordance with standing policy.

2. Commissions & Trading Costs

The annual commission report should be delivered to the PSRSSTL Trustees, staff and investment consultant within forty-five (45) days of the end of each calendar year. The report should cover all trades executed during the prior calendar year. Each annual commission report should include the following:

- a. *Broker Selection Policy.* Discussion of the firm's policy for selecting brokers, reviewing brokers, and negotiating brokerage commissions. This discussion should identify any situations where the Manager has a financial interest in brokers used to execute trades in the portfolio and a list of all broker-dealers used by the firm.
- b. *Commission Expense.* Provide a review of the portfolio's actual commission expense over the prior year. At a minimum, this should be broken down by broker and include a distinction between commissions on listed versus unlisted securities, average commission per share, total shares traded, total commission expense, and total trading volume.
- c. *Transaction Cost Analysis.* If the firm has a system for monitoring total transaction cost, commissions plus market impact, a copy of this analysis should be provided. If no system is being used, the commission report should include a complete explanation of how the firm monitors selected brokers for best execution.

- d. *Soft Dollar Policy.* This should include a discussion of the firm's soft dollar policy, including the procedures in place to assure that any services purchased by the firm with soft dollars provide economic benefit to the Fund.
- e. *Soft Dollar Expense Review.* Identify any goods and services purchased with soft dollars over the past year. This should report, at a minimum, the goods and services purchased, the total cost, and the share of that total cost paid by the Fund.

IX. IMPLEMENTATION

All monies invested for PSRSSTL by its Managers after the adoption of this investment policy shall conform to this policy.

FOR PSRSSTL

Approved by:

**PUBLIC SCHOOL RETIREMENT SYSTEM
OF THE CITY OF ST. LOUIS**

Name of Organization

Susan Kane

Signature

SUSAN KANE

Printed Name

EXECUTIVE DIRECTOR

Title

2/24/2025

Date

FOR THE INVESTMENT MANAGER

Approved by:

Name of Organization

Signature

Printed Name

Title

Date

APPENDIX I - Glossary

This appendix to the Investment and Operating Guidelines for the Public School Retirement System of the City of St. Louis ("PSRSSTL") is written to provide additional background regarding the selection and interpretation of various standards contained within the guidelines.

- ◆ **Policy Index** - Total return should meet or exceed the System's Policy Index.

The Policy Index is constructed by using target asset class percentages applied to market rates of return. The Policy Index for the System is calculated using the following target allocations and indices:

Asset Class / Product	Target%	Rating Index
Equities		
Domestic	28.0	Russell 3000
International	15.0	MSCI All Country World Ex-US
Global	5.0	MSCI All Country World
Global Asset Allocation	3.0	60% MSCI World/40% Bloomberg Multiverse
Fixed Income	25.0	Bloomberg Multiverse
Hedge Funds Strategies	5.0	HFRI Fund of Funds Composite
Real Estate	7.0	NCREIFODCE
Private Equity	7.0	Private Equity Benchmark
Private Debt	5.0	S&P UBS Leveraged Loan

Risk-adjusted Returns -

Risk-adjusted returns are usually calculated by isolating the return earned in excess of the risk-free rate (the T-bill rate) and evaluating that return in relation to the additional risk (volatility, or standard deviation) incurred in earning the incremental return.

For example:

	<u>Return</u>	Risk	<u>Excess Return</u>	<u>Excess Return Divided By Risk</u>
T-Bills	8%			
S&P 500	12%	16%	4%	4/16 = 0.25
Manager A	12%	20%	4%	4/20 = 0.20

In this example, both the Equity Manager and the market earned 4% over T-Bills, but the Equity Manager incurred somewhat more risk and had lower risk-adjusted return - not a desirable situation. A higher risk adjusted return indicates that more return was achieved for the amount of risk taken.

◆ **Duration -**

Duration is a measure of interest rate sensitivity. It provides a ballpark estimate of how much the current price of a security (or the current cost of funding a liability stream) will vary for a given change in interest rates. For example, the price of bonds with durations of seven years will increase roughly 7% if interest rates decline 1%; conversely, the price of these bonds will tend to decline 7% if rates go up 1%.

Duration may be the same as maturity, but usually it is not. For example, coupon bearing 20-year bonds will typically have durations in the 6-7-year range. However, 20-year zero coupon bonds will have durations of 20 years.

Accordingly, it is appropriate to conclude that a 20-year zero coupon bond is roughly three times more volatile, or aggressive, than a 20-year coupon bearing bond.

For example, if the Bloomberg Aggregate Bond Index has a duration of approximately 5.0 years, the 75% to 125% duration guideline would permit active bond Managers to hold a bond portfolio some 25% more volatile than the market (6.25 versus 5 years). Clearly, this latitude would permit a manager the opportunity to structure a portfolio which would appreciate more than the market in good times, when rates are declining. However, the risk of incurring higher losses than the market also exists if the Manager extends to the maximum allowable term and rates increase.

APPENDIX II - Asset Allocation Policy

The actuarial rate of return (discount rate) assumption for the Fund is 7.5%. In order to have a reasonable probability of achieving this assumption, the Trustees have adopted the asset allocation policy outlined below.

Asset Class / Product	Target Allocation	Exposure Range
Equities	48.0%	38 - 58%
Domestic Large Cap	19.0%	14 - 24%
Domestic Mid/Small/Micro Cap	9.0%	6 - 12%
Developed International	11.0%	6 - 16%
Emerging International	4.0%	0 - 7%
Global Stocks	5.0%	3 - 7%
Global Asset Allocation	3.0%	0 - 6%
Fixed Income	25.0%	15 - 35%
Core	10.0%	5 - 15%
Global Multi-Sector Bonds	12.0%	9 - 15%
Treasury Inflation-Protected Securities (TIPS)	3.0%	0 - 5%
Hedge Fund Strategies	5.0%	3 - 7%
Real Estate	7.0%	4 - 10%
Private Equity	7.0%	4 - 10%
Private Debt	5.0%	3 - 7%
Cash	0.0%	0 - 5%

APPENDIX III - Performance Benchmarks

This Appendix provides specific guidance regarding individual Manager assignments for classifications, benchmarks and guideline exceptions. Combined with the applicable sections of the Investment and Operating Guidelines and PSRSSTL Rule XIV, this Appendix provides a complete statement of investment objectives, rules and guidelines for each investment Manager, exclusive of rules or guidelines directly incorporated into contracts or other similar agreements.

Asset Class/ Manager Product Names	Rating Index/Benchmark	Peer Group Assignment***	Comments / Exceptions**
U.S. EQUITY MANAGERS			
Mellon US Large Cap Growth Index	Russell 1000 Growth	IM Large Cap Growth Managers	Separate Account
TCW Large Cap Growth	Russell 1000 Growth	IM Large Cap Growth Managers	Separate Accounts
Edgar Lomax Large Cap Value	Russell 1000 Value	IM Large Cap Value Managers	Separate Account
Mellon US Large Cap Value Index	Russell 1000 Value	IM Large Cap Value Managers	Co-mingled Fund
Mellon S&P 500 Index Fund	S&P 500	IM Large Cap Core Managers	Co-mingled Fund
Westfield Capital Small Cap Growth	Russell 2000 Growth	IM Small Cap Growth Managers	Separate Account
Systematic Financial Small Cap Value	Russell 2000 Value	IM Small Cap Value Managers	Separate Account
DFA US Micro Cap	Russell 2000	IM Small Cap Core Managers	Mutual Fund
INTERNATIONAL & GLOBAL EQUITY MANAGERS			
Fidelity International Growth	MSCI EAFE Growth	IM International Large Cap Growth Managers	Co-mingled Fund
Causeway International Value	MSCI EAFE Value	IM International Large Cap Value Managers	Separate Account
DFA Emerging Markets Value	MSCI Emerging Markets	IM Emerging Markets Equity Managers	Mutual Fund
Invesco Emerging Markets Equity	MSCI Emerging Markets	IM Emerging Markets Equity Managers	Co-mingled Fund
Xponance Manager of Emerging Managers	MSCI All Country World	IM Large Cap Core Global Equity Managers	Separate Accounts
U.S. CORE BOND MANAGERS			
Manulife Core Fixed Income	Bloomberg US Aggregate	IM US Broad Market Core Fixed Income Managers	Separate Account
Earnest Partners Core Fixed Income	Bloomberg US Aggregate	IM US Broad Market Core Fixed Income Managers	Separate Account
Loop Capital Core Plus Fixed Income	Bloomberg US Aggregate	IM US Broad Market Core Fixed Income Managers	Co-mingled Fund
OPPORTUNISTIC FIXED INCOME MANAGERS			
Loomis Sayles Strategic Alpha Trust	Bloomberg Global Multiverse	IM Global Unhedged Fixed Income Managers	Co-mingled Fund
Neuberger Berman Global Opportunistic Fixed Income	Bloomberg Global Aggregate (Hedged)	IM Global Hedged Fixed Income Managers	Co-mingled Fund
Wellington Multi Sector Credit	Bloomberg Global Multiverse	IM Global Unhedged Fixed Income Managers	Co-mingled Fund
Mellon US TIPS Index	Bloomberg US TIPS	IM US TIPS Managers	Co-mingled Fund
GLOBAL ASSET ALLOCATION (GAA) MANAGERS			
PIMCO All Asset Fund	60% MSCI World/ 40% Bloomberg Global Multiverse	IM Flexible Portfolio Managers	Co-mingled Fund

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REAL ESTATE MANAGERS

Real Estate Managers	NCREIFODCE	IM Real Estate Managers	Co-mingled Fund/Partnerships
ALTERNATIVE INVESTMENTS			
Private Equity Managers	Private Equity	IRR based on Vintage Year	Partnerships
Private Debt Managers	Credit Suisse Leveraged Loan	IRR Based on Vintage Year	Partnerships
HEDGE FUND MANAGERS			
En Trust Diversified	HFRI Fund of Funds Composite		Co-mingled Funds/Partnerships
Grosvenor Institutional Partners	HFRI Fund of Funds Composite		Co-mingled Funds/Partnerships
Whitebox Multi-Strategy Funds	HFRI Multi Strategy		Co-mingled Funds/Partnerships

* IM refers to Investment Metrics Universe

** Co-mingled Funds, mutual funds, partnerships, and other pooled vehicles may be excluded from some of the PSRSSTL investment and operating guidelines due to specific guidelines adopted in the respective offering memorandum, prospectus, or other governing documents of the investment.

APPENDIX IV-Minority or Women-Owned Business Enterprise (MWBE) Brokerage Policy

The Board encourages the use of broker/dealer firms that are Minority or Women-Owned Business Enterprises.

The Fund's Investment Managers shall give consideration to certified Minority or Women-Owned Business Enterprises when executing trades for the Fund subject to each Investment Manager being responsible for implementing trading policies that result in the best price and execution of any broker/dealer selected.

In implementing this Broker/Dealer Trading Policy, the Fund has established the following minimum annual goals based on its current asset allocation:

1) **Active Domestic Equity Investment Managers:**

Subject to best price execution, each Investment Manager shall direct at least one-third (33.3%) of total commission dollars, on an annual basis, to Minority or Women-Owned Business Enterprises. Step-out-trades will not be counted towards trades with Minority or Women-Owned Business Enterprises.

2) **International Equity Investment Managers:**

Subject to best price execution, each Investment Manager shall direct at least 10% of total commission dollars, on an annual basis to Minority or Women-Owned Business Enterprises. Correspondence arrangements will not be counted towards trades with Minority or Women-Owned Business Enterprises.

3) **Fixed Income Investment Managers:**

Subject to best price execution, each Investment Manager shall direct 10% of eligible fixed income trading volume (par) to Minority or Women-Owned Business Enterprises.

4) **Transition Managers:**

Subject to best price execution, each Transition Manager shall direct at least 40% of total commission dollars to Minority or Women-Owned Business Enterprises. Step-out-trades will not be counted towards this goal.

Reporting

All trades must be identified in an Investment Manager's quarterly report submitted to the Board. Investment Managers must identify which brokers utilized are broker/dealers that are Minority or Women-Owned Business Enterprises and the dollar amount traded with each firm. In addition, the report should detail total shares executed, total trading commissions, and average commission cost per share.

When an Investment Manager cannot meet these goals, the Investment Manager must identify the reasons the goal could not be met within the quarterly report to the Board. Failure by an Investment Manager to meet the goals set forth in this Policy will be considered as a factor when evaluating the Investment Manager's overall performance and relationship with the Fund and may be cause for termination.

(.Adopted 10-21-13)