

Manchester Employees' Contributory Retirement System

Investment Objectives & Guidelines

Developed in Cooperation with

NEPC, LLC



Version 2023

Last Updated May 9, 2023

INVESTMENT OBJECTIVES AND GUIDELINES

Manchester Employees' Contributory Retirement System

INTRODUCTION

The Manchester Employees' Contributory Retirement System, (MECRS) the "Fund" or the "Plan" is a "defined benefit" plan and operates pursuant to Section 8.09 of the City Charter of Manchester, New Hampshire, in accordance with the State of New Hampshire Laws of 1973, Chapter 218 as amended, and is intended to create a tax-qualified governmental retirement plan under sections 401(a) and 414(d) of the Internal Revenue Code as amended. This defined benefit plan is superior to defined contribution plans in that it calculates the retirement benefit based upon average final earnings, creditable service, and age at retirement as opposed to simply the total accumulation of dollars in the plan. The System is governed by a seven-member board in accordance with Articles I and II of its By Laws and operates in accordance with Administrative Rules established for that purpose. The System exists for the benefit of its membership.

The Retirement System applies to all full-time and permanent employees of the City, the Manchester school district, Manchester public library, and the Manchester contributory retirement system including elected and appointed officials. Trustees of the retirement system who are not otherwise eligible to participate are prohibited from being member in the plan. The Retirement System does not cover certain categories of employees, such as temporary employees, members of boards and commissions who are not full-time or permanent part-time employees of the City, trustees of the plan who are not otherwise eligible to participate, Group II members of the fire and police departments, and teachers who are eligible to participate in a state-administered retirement system, and other persons who are eligible to participate in the New Hampshire Retirement System.

The management of the MECRS is vested in a seven (7) member Board of Trustees established pursuant to New Hampshire law. The Board of Trustees shall exercise reasonable care, skill and caution and invest and manage trust assets as a prudent investor would, by considering the purposes, terms, distribution requirements and other circumstances of the Plan. Investments of the Plan shall be made in full accordance with any and all applicable City and State statutes, as well as any other applicable legislation or regulation, state, federal or otherwise.

This policy statement is issued for the guidance of fiduciaries, including the members of the Board of Trustees, administrative staff, and investment managers, in the course of investing the assets of the Plan.

Policy guidelines may be amended by the Board of Trustees both upon their own initiative and upon consideration of the advice and recommendations of the investment managers and fund professionals. Proposed modification must be in writing to the Plan, must be reviewed by the Plan's Investment Consultant, and must be voted into effect by the MECRS Board at a scheduled meeting prior to being placed in effect.

STATEMENT OF GOALS AND OBJECTIVES
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This statement of investment goals and objectives is set forth in keeping with the fiduciary requirements under existing state and federal laws. Its purpose is to set forth an appropriate set of goals and objectives for the Plan's assets and to define guidelines within which the investment managers may formulate and execute their investment decisions.

1. Achieving a total return, consistent with prudent investment management, greater than the earnings assumption for the Plan in order to satisfy long term plan liabilities and maintaining an acceptable funded ratio is the primary goal of the Plan. The total return target is 6.75% net of fees compounded annually, which considers the actuarial rate of return of 6.75% Total return, as used herein, includes income plus realized and unrealized gains and losses on Plan assets. In addition, assets of the Plan shall be invested to ensure that principal is preserved and enhanced over time.
2. The total return for the overall Plan shall meet or exceed the Plan's Policy Index (as described in Appendix I). As a secondary comparison, the Plan shall also be compared with comparable public pension funds as represented by the Consultants Public Pension Fund peer group universe (IF Universe), with the understanding that the Plan's funded status and overall investment risk profile may differ from the average public pension fund in that universe.
3. Total portfolio risk exposure and risk-adjusted returns will be regularly evaluated and compared with a universe of similar funds for the Plan and each investment manager. Total portfolio risk exposure should generally rank in the mid-range of comparable funds. Risk-adjusted returns are expected to consistently rank in the top-half of comparable funds.

Investment managers shall exceed the return of the designated benchmark index noted below and rank in the top-half of the appropriate asset class and style universe. Specific guidelines and benchmarks and performance requirements for the Investment Managers are specified in Appendix IV.

Asset Class	Benchmark	Asset Class Universe	Style Universe
Global Equity	MSCI ACWI	Equity Funds	All Cap Equity
Domestic Large Cap Equity	S&P 500, Russell 1000 Growth or Value Index	Equity Funds	Large Core, Growth or Value
Domestic SMID Cap Equity	Russell 2500, Russell 2500 Growth or Value	Equity Funds	SMID CAP Universe
Non-US Equity	MSCI EAFE Index	Developed Int'l Equity Funds	NA
Emerging Equity	MSCI Emerging Markets Free	Emerging Int'l Equity Funds	NA
Fixed Income	BC Aggregate	Fixed Income Funds	Core Bonds, Core Plus Bonds
Real Estate Allocation	NCREIF	Real Estate Funds	NA

Private Equity	Cambridge Private Equity	NA	NA
Real Assets	TBD based on manager	NA	NA

- The Retirement Board is aware that there may be deviations from these performance targets. Normally, results are evaluated over a three- to five-year time horizon, but shorter- term results will be regularly reviewed and earlier action taken if in the best interest of the Plan.

INVESTMENT GUIDELINES

The overall capital structure targets and permissible ranges for eligible asset classes are detailed in Appendix I.

Full discretion, within the parameters of the guidelines described herein, is granted to the investment managers regarding the asset allocation, the selection of securities, and the timing of transactions.

- Equity investments, i.e., common stocks, convertibles, warrants and rights are permitted; subject to the guidelines in Appendix I. Equity specialists may vary equity commitment from 90% to 100% of assets under management. The managers should determine that the securities to be purchased are of an investment grade suitable for this Plan. American Depository Receipts (ADRs), which are dollar denominated foreign securities traded on the domestic U.S. stock exchanges, e.g., Reuters, Nestle, Sony, may be held by each domestic stock manager in proportions which each manager shall deem appropriate.
- Domestic fixed income investments are permitted, subject to the guidelines in Appendix I, and may include U.S. Government and Agency obligations, mortgage backed securities; including non-agency mortgages and commercial mortgage-backed securities; asset-backed securities; corporate bonds; debentures; commercial paper; and taxable municipals.
- The minimum quality rating of any fixed income issue held in an investment grade portfolio shall be B as rated by Moody's, or the equivalent as defined by Fitch or Standard & Poor's, and the overall weighted average quality shall be A or higher. The ratings in this Policy Statement are for guidance only; the investment managers are responsible for making an independent analysis of the credit worthiness of securities and their suitability as investments regardless of the classifications provided by rating agencies.
- The average duration (interest rate sensitivity) of an actively managed fixed income portfolio shall be within +/- 30% of its benchmark index. Given the nature of their process, absolute return managers may have additional flexibility around this target.
- Investment in Non-US Fixed Income, specifically global sovereign and emerging market debt local currency, securities is permissible. It is expected that investment in these securities will be via a commingled vehicle, therefore being managed under separate guidelines than the ones listed herein. However, as described below, commingled investment vehicles selected by the Board are exempt from the policies and restrictions specified herein.

6. Securities of an individual issuer, excepting the U.S. government and agencies and sovereign nations and their agencies, shall not constitute more than 5% of an investment manager's portfolio at any time, at market value.
7. Investment managers may maintain reserve and cash equivalent investments. However, these investments should be made on the basis of safety and liquidity, and only secondarily by yield available. Such securities shall carry the equivalent of Standard & Poor's A1 or A2 ratings.
8. The use of exchange traded funds (ETF's) is permitted in the portfolio, so long as it is within the parameters of the guidelines listed above. It is understood that an allocation to ETF's is meant to represent broad market exposure via an individual security, therefore, any allocation that falls outside of the parameters of these guidelines requires prior Board approval.

Ineligible Investments

Unless specifically approved by the Plan, certain securities, strategies and investments are ineligible for inclusion within separately managed accounts in the Plan's asset base. Among these are:

- Derivative instruments except as permitted in the Derivatives Policy in Appendix II or specifically provided for in individual manager guidelines.
- Privately-placed or other non-marketable debt, except securities issued under Rule 144a.
- Lettered, legend or other so-called restricted stock.
- Commodities – Except by a manager investing in Real Assets.
- Straight preferred stocks and non-taxable municipal securities should not normally be held unless pricing anomalies in the marketplace suggest the likelihood of near-term capital gains when normal spread relationships resume.
- Short sales – Except by GTAA managers in a 130/30 scenario.
- Direct investments in private placements, real estate, oil and gas and venture capital.
- Any transaction prohibited by ERISA.

Benefit Payments

Investment managers will be given 30 days notice of cash needs and an estimation of the liquidity requirements from their funds. They will be expected to manage their funds to provide for anticipated withdrawals without impairing the investment process.

Proxy Voting

Responsibility for the exercise of ownership rights through proxy solicitations shall rest solely with the investment managers, who shall exercise this responsibility strictly for the economic benefit of the portfolios. Managers shall annually report to the Plan standing policies with respect to proxy voting, including any changes that have occurred in those policies.

Commingled Funds

Mutual funds and other types of commingled investment vehicles provide, under some circumstances, lower costs and better diversification than can be obtained with a separately managed fund pursuing the same investment objectives. However, commingled investment funds cannot customize investment policies and guidelines to the specific needs of individual clients. The Board is willing to accept the policies of such funds in order to achieve the lower costs and diversification benefits of commingled funds. Therefore, commingled investment vehicles selected by the Board are exempt from the policies and restrictions specified herein.

Alternative Investments

The Board recognizes that certain Alternative Investment strategies (such as absolute return and private equity strategies) do in fact make use of derivatives and other instruments which may not be in full compliance with the guidelines set out for separately managed portfolios. Given that virtually all alternative investment strategies will be in a commingled format, the above Guidelines for Pooled Funds will apply. To the extent that the Board selects an Alternative Investment manager offering a separately managed account, the Board may use its discretion in terms of granting exceptions to these guidelines to that manager and any such exceptions shall be documented in appendices of the investment management / subscription agreement.

Real Asset Investments

It is the intent of the Board to invest in real assets with a manager or managers who will invest across multiple asset classes. Allocation of asset classes is tactical in nature and will be determined by the manager. The investment will be made through a comingled vehicle.

Real asset investments are defined as investments designed to benefit from and provided a hedge against rising and high inflation. Further, they are also designed to yield an inflation adjusted “real” return. In addition, due to their counter cyclical nature and relatively low correlation to traditional broad markets, real assets also provide significant diversification to the entire portfolio.

Real asset strategies will vary significantly by mandate, however, will encompass a wide array of exposure to inflation sensitive assets. The exposure may include the following:

- **Inflation Linked Bonds** – Must follow investment guidelines for fixed income investments. Inflation linked bonds are described as bonds whose principal is adjusted for inflation such that income payments are inflation adjusted, such as TIPS. Both domestic and global securities may be utilized.
- **Commodities** – Exposure to energy, agriculture, livestock and precious metals is permitted through the use of derivatives, subject to guidelines in Appendix II. Receipt of physical commodities is prohibited.
- **Global Equities** – Must follow investment guidelines set for equity investments. The following publically traded equities may be utilized:
 1. Energy
 2. Farmland/Agribusiness
 3. Global Climate Change

4. Metals and Mining
 5. Global Natural Resources
- **Real Estate** – Investments in publically traded Real Estate Investment Trusts (REIT's) is permitted. Private placement real estate investments require separate Board approval.

Although real asset investments have the potential for capital appreciation, their main objective is to outpace inflation over the long term; helping to preserve purchasing power caused by rising input prices.

Manager Probation

Investment Managers may be placed on a watch list in response to the Board's concerns about the Manager's recent or long-term investment results, failure of the Investment Manager to comply with any of this Investment Policy Statement (IPS), significant changes in the Investment Manager's firm, changes in the Manager's investment strategy, anticipated changes in Fund structure, or any other reasons which the Board deems appropriate. A Manager may be placed on probationary status when:

- Performance fails, over four consecutive quarters or any six quarters during a ten-quarter period, to achieve median same style universe performance levels as defined by the Fund; and
- During this same period the return does not meet the return of the benchmark index.

Nothing in the general guidelines above precludes the Fund from placing a Manager on the watch list for performance in a lesser time period or taking other actions if deemed appropriate by the Fund.

LIQUIDITY AND CASH MANAGEMENT POLICY

Purpose and Objective: The purpose and objective of this policy is to ensure cash balances are sufficient for the operation of the organization, without holding excess amounts of cash which can dampen the performance of the total fund. The need for the policy results from a recognition that the Board has elected to invest in alternative assets classes, which are funded through a series of capital calls over the life of the investment. That recognition is coupled with the Board's desire to avoid over-allocations to cash, while awaiting capital calls. The Board further recognizes that the maturing makeup of plan participants has caused monthly retiree obligations to match or exceed contribution inflows from members and employers. If not monitored and managed, these factors can combine to result in cash balance deficiencies. In order to ensure adequate liquidity for the operation of the System, while remaining fully invested with minimal (target) cash holdings, the Board previously elected, upon the recommendation of the investment consultant, to invest in an S&P 500 index fund to be used as one source for cash when low balances dictate such action (See appendix IV, Section 4). Given its mutual fund structure, and daily liquidity, the S&P 500 index fund, provides for rapid redemption when cash is suddenly required.

Because the magnitude of long-term investment commitments exceeds the anticipated allocation to the S&P 500 Index Fund, the Board understands that investments other than the S&P 500 Index Fund should be called upon to provide liquidity when, in the opinion and upon the recommendation of its investment consultant, drawing upon such sources will contribute to maintenance of the asset allocation targets approved by the Board. The Board further understands that some investments also involve the collection of distributions and redemptions which, by their nature, are paid out over time and not at specific dates. These cash events can also move the composition of asset classes from their target allocations approved by the Board. Driven by the desire to keep actual investment allocations correlated with target allocations, the Board depends upon its consultant and administrative staff to manage cash flow requirements, while simultaneously retaining asset allocation objectives.

For the reasons cited above, the Board hereby authorizes its consultants and staff to manage daily liquidity and cash flow needs of the Retirement System by augmenting cash balances through the redemption of such assets as may be required to avoid overdrafts. Redemptions are to be made from such asset classes and investment vehicles as may be identified by the consultant in order to comply with the long-term objectives authorized by the Board. In order to preserve control over the redemption process, while still affording time critical liquidity needs, the Board hereby stipulates that administrative staff shall inform the Chairman of the Board and the Chairman of the Investment Committee by email, in advance of all asset redemptions. The Board acknowledges that capital calls for investment commitments, which cannot be precisely timed, may result in redemption of funds from the portfolio to meet the liquidity needs at that time, and which can result in an investment loss. As part of this policy, administrative staff shall document all asset redemptions as described in the section below.

Limitations, Reporting Requirements and Market Volatility: The Board shall be informed on a monthly basis, of the cash balances held by the System and of all asset redemptions driven by liquidity needs. Furthermore, the report shall identify receipts and disbursements for the period just ended, which are reconciled to bank balances. The report will also include a listing of cash commitment balances attributed to any investments made by the Board, which are being funded over time. The monthly cash management report shall be compiled by the Executive Director, who shall also sign the report. Said report shall be included on the agenda of each monthly meeting, where its acceptance by the Board will acknowledge their oversight of these delegated cash management practices.

Policy updated: May 9, 2023.

ROLES AND RESPONSIBILITIES

Board of Trustees

The Board of Trustees (Trustees) have a fiduciary obligation to review the total investment program. The Trustees and their investment consultants shall carry out that review in accordance with an approved investment policy and provide overall direction to the staff in the execution of the investment policy. The Trustees and their administrative staff, with the assistance of the investment consultant, are responsible for evaluating, hiring, and terminating investment managers, consultants and custodian banks.

Investment Consultant

The Investment Consultant shall assist the Trustees in developing and modifying policy objectives and guidelines, including the development of asset allocation strategies, recommendations on long term asset allocation and the appropriate mix of investment manager styles and strategies. The consultant shall also provide assistance in manager searches and selection, and in investment performance calculation, evaluation, and analysis. The consultant shall provide timely information, written and/or oral, on investment strategies, instruments, managers and other related issues, as requested by the Board of Trustees

Investment Managers

The duties and responsibilities of each of the investment advisors retained by the Plan include:

1. Managing the Plan's assets in accordance with the policy guidelines and objectives expressed herein.
2. Meeting with the Board of Trustees at their request. Each manager shall report to the Plan and the Investment Consultant as outlined in Appendix III. Quarterly reports should be submitted in writing within 30 days at the end of a quarter.
3. Working with the custodian bank to verify monthly accounting reports.
4. Acknowledging in writing to the Plan the investment manager's intention to comply with this Statement as it currently exists or as modified in the future.

Custodian Bank

In order to maximize the Plan's return, no money should be allowed to remain idle. Dividends, interest, proceeds from sales, new contributions and all other monies are to be invested or reinvested promptly.

The custodian bank(s) will be responsible for performing the following functions:

1. Accept daily instructions from designated staff.
2. Notify investment managers of proxies, tenders, rights, fractional shares or other dispositions of holdings.
3. Resolve any problems that designated staff may have relating to the custodial account.
4. Safekeeping of securities.

5. Collection of interest and dividends.
6. Daily cash sweep of idle principal and income cash balances.
7. Processing of all investment manager transactions.
8. Collection of proceeds from maturing securities.
9. Disbursement of all income or principal cash balances as directed.
10. Collect asset values from pooled accounts, private equity investments and other alternative asset classes not "held / custodied" by the bank for inclusion in the Plan's comprehensive monthly valuation reports.
11. Providing monthly statements by investment account and a consolidated statement of all assets to the Plan and its investment consultant.
12. Working with the investment consultant and the Fund accountant to ensure accuracy in reporting.
13. Provide written statements revealing monthly reconciliation of custody and investment managers' accounting statements.

OTHER CONSIDERATIONS

It is the intent of the Plan to revise this statement of goals and objectives to reflect modifications and revisions to the Plan, which may develop from time to time. It is also the practice of the Plan to review these goals and objectives at least once per year and to communicate any material change thereto to the investment managers.

This Policy statement is prepared to provide appropriate guidelines for the investment managers, consistent with the Plans' return objectives and risk tolerances. Should any investment manager believe that the guidelines are unduly restrictive or inappropriate, the Plan expects to be advised accordingly.

IMPLEMENTATION

All monies invested for the Plan by its investment managers after the adoption of this Investment Policy shall conform to this policy. The Investment Policy statement was adopted by the Board of Trustees of the City of Manchester, NH at their meeting on January 8, 2008, most recently amended on July 9, 2013, and updated to reflect manager changes on May 9, 2023.



Certified By: _____

Melanie Murray – Executive Director

Date: May 9, 2023

City of Manchester, NH

ASSET ALLOCATION POLICY

In order to have a reasonable probability of achieving the target return at an acceptable risk level, the Plan has adopted the asset allocation policy outlined below. The actual asset allocation will be reviewed on a quarterly basis and will be readjusted when an asset class weighting is outside its target range.

ASSET CLASS	TARGET %	TARGET RANGE%	TARGET BENCHMARK
EQUITY			
Domestic Equity		20% - 35%	Russell 3000
<i>Large Cap</i>	20%	18% - 25%	S&P 500
<i>Small/SMID Cap</i>	6%	4% - 8%	Russell 2500
Non US Equity		15-25%	MSCI ACWI Ex US
<i>International Equity</i>	11%	6%-14%	MSCI EAFE
<i>Emerging Equity</i>	7%	5% - 10%	MSCI Emerging Markets
Global Equity	10%	8% - 15%	MSCI ACWI
FIXED INCOME			
<i>High Quality Bonds</i>	12%	8-16%	BC Aggregate
<i>Multi Sector Credit</i>	8%	4% - 10%	BC Aggregate
ALTERNATIVES			
<i>Real Estate/Real Assets</i>	12%	0% - 16%	NCRIF
<i>Private Equity</i>	12%	0% - 16%	CA Private Equity
CASH	2%	0% - 4%	90 Day T-Bills

The Plan's Policy Index is a custom benchmark designed to indicate the returns that a passive investor would earn by consistently following the asset allocation targets set forth in this investment policy statement. It is useful in separating the impact of investment policy from execution of the investment strategy in evaluating the performance of the Fund's investment program.

The Policy Index is calculated by multiplying the target commitment to each asset class by the rate of return of the appropriate market index, as listed above, on a monthly basis.

Rebalancing

The Board, with the assistance of the consultant, will review asset allocation at least quarterly to determine if the asset allocation is consistent with the exposure ranges described herein. The MECRS Executive Director will direct investment managers to transfer funds to rebalance the asset allocation as necessary following prior Board authorization. The transfers should be on a pro-rata basis. The Board will consider market conditions and transaction costs, as well as any other relevant factors when rebalancing.

The Plan shall strive to maintain a neutral bias with respect to Style Allocation (Growth versus Value) in its equity investments. The Trustees recognize that over the long run, returns from Growth and Value investing tend to approximate each other; over shorter periods, however, returns between the two can be significantly different. The Board, as part of the normal rebalancing responsibilities, shall use appropriate judgment and care when rebalancing portfolios.

City of Manchester, NH
DERIVATIVES POLICY STATEMENT

A. Objectives

This derivatives policy statement identifies and allows common derivative investments and strategies which are consistent with applicable law and the Investment Policy Statement and requires investment managers to petition for the inclusion of additional derivative instruments and strategies. The guidelines also require investment managers to follow certain controls, documentation and risk management procedures.

B. Definition and Classification of Derivatives

A derivative is a security or contractual agreement which derives its value from some underlying security, commodity, currency, or index. These guidelines classify derivatives into four separate categories distributed across two classes: derivative contracts and derivative securities:

1. Derivative Contracts

- a) Forward-based derivatives, including forward contracts, futures contracts, swaps, and similar instruments
- b) Option-based derivatives, including put options, call options, interest rate caps and floors, and similar instruments

2. Derivative Securities

- a) Collateralized Mortgage Obligations (CMOs)
- b) Structured Notes

C. Allowed Uses of Derivatives**1. Derivative Contracts**

- a) **Hedging.** To the extent that the non-derivative component of a portfolio is exposed to clearly defined risks and derivative contracts exist which can be used to reduce those risks, the investment managers are permitted to use such derivatives for hedging purposes, including cross-hedging of currency exposures, subject to the documentation requirements below.
- b) **Creation of Market Exposures.** Investment managers are permitted to use derivatives to replicate the risk/return profile of an asset or asset class, provided that the guidelines for the investment manager allow for such exposures to be created with the underlying assets themselves.

- c) **Management of Country and Asset Allocation Exposure.** Managers charged with tactically changing the exposure of their portfolio to different countries and/or asset classes are permitted to use derivative contracts for this purpose.

2. Derivative Securities

- a) **"Plain Vanilla" CMOs.** For the purpose of this policy, we will define a "plain vanilla" CMO as one which can be shown that the CMO is less exposed to interest rate and prepayment risk than the underlying collateral.
- b) **Other CMOs.** CMOs which are not plain vanilla are restricted to 10% of a manager's portfolio.
- c) **Structured Notes.** Structured notes may be used so long as the exposure implied by their payment formula would be allowed if created without use of structured notes.

D. Prohibited Uses of Derivatives

Any use of derivatives not listed in section C is prohibited without written approval of the Plan. Investment managers are encouraged to solicit such approval if they believe the list in section C is too restrictive. By way of amplification, it is noted that the following two uses of derivatives are prohibited:

1. **Leverage.** Derivatives shall not be used to magnify exposure to an asset, asset class, interest rate, or any other financial variable beyond that which would be allowed by a portfolio's investment guidelines if derivatives were not used.
2. **Unrelated Speculation.** Derivatives shall not be used to create exposures to securities, currencies, indices, or any other financial variable unless such exposures would be allowed by a portfolio's investment guidelines if created with non-derivative securities.

E. Transaction-Level Risk Control Procedures and Documentation Requirements

For each over-the-counter derivative transaction, except foreign exchange forward contracts, investment managers are required to obtain at least two competitive bids or offers. For small-issue CMOs, it is acceptable to obtain competitive prices on similar securities.

For all derivatives transactions, investment managers should maintain adequate records to prove that all derivative contracts used are employed for allowed strategies. In addition, the following requirements apply to derivative securities:

- a) **"Plain Vanilla" CMOs**

- Document that the CMO is in fact "plain vanilla", according to the definition in section C.2.a.

- b) **Other CMOs**

- These CMOs must be stress tested to estimate how their value and duration will change with extreme changes in interest rates. An extreme change is one of at least 300 basis points.

c) Structured Notes

Document that note does not create exposures which would not be allowed if created without derivatives.

F. Portfolio-Level Risk Control Procedures and Documentation Requirements

1. Counterparty Credit Risk

Managers are required to measure and monitor exposure to counterparty credit risk. All counterparties must have commercial paper credit ratings of at least A1 or equivalent rating.

2. Ongoing Monitoring of Risk Exposures

The duration and other risk exposure limits specified in the managers' guidelines are expected to be satisfied on an ongoing basis. Thus, managers must monitor changing risk exposures. Fixed income managers investing in CMOs should pay particular attention to the changing duration of their CMOs, and should anticipate potential changes in duration at the time CMOs are purchased so that interest rate and prepayment rate changes do not inadvertently move the portfolio out of compliance.

3. Valuation of Holdings

The investment managers and custodian shall provide the Plan with their pricing policies including a list of sources used. The Plan should be notified of any exceptions to these policies. The custodian is required to obtain prices independent of the manager, or to notify the Plan that independent prices are not available.

The investment managers are required to reconcile the valuations of all derivatives positions with the custodian not less than monthly.

4. Quarterly Reporting

Each manager using derivatives shall submit within thirty days of the end of each quarter a report, to both the Board and the investment consultant, with the following information:

- a) A list of all derivative positions as of quarter-end.
- b) An assessment of how the derivatives positions affect the risk exposures of the total portfolio.
- c) An explanation of any significant pricing discrepancies between the manager and custodian bank.
- d) An explanation of any events of non-compliance.
- e) For managers of commingled funds, a list of derivative positions and assessment of the effect on the risk exposure of the portfolio.

G. Guidelines for Use of Pooled Funds which Employ Derivatives

Mutual funds and other types of commingled investment vehicles provide, under some circumstances, lower costs and better diversification than can be obtained with separately

managed fund pursuing the same investment objectives. However, commingled investment funds cannot customize investment policies and guidelines to the specific needs of individual clients. The Plan is willing to accept the policies of such funds in order to achieve the lower costs and diversification benefits of commingled funds.

Therefore, commingled investment vehicles are exempt from all policies specified above except F.4.e if:

1. The investment practices of the commingled fund are consistent with the spirit of this derivatives policy, and are not significantly different in letter
2. The benefits of using a commingled vehicle rather than a separate account are beneficial to the Fund in either a “financial” or “administrative” manner.

City of Manchester, NH

INVESTMENT MANAGER REPORTING REQUIREMENTS

As Necessary (based on occurrence)

1. Review of Organizational Structure
 - A. Organizational changes (i.e., ownership).
 - B. Discussion of any material changes to the investment process.
 - C. Departures/additions to investment staff.
 - D. Material changes in assets under management for the product managed on behalf of the Plan and for total firm.
 - E. Managers shall disclose all pertinent information regarding any and all regulatory findings and/or litigation in which they were/are involved.

Quarterly

1. Summary of Investment Guidelines
 - A. Discuss adherence to guidelines.
 - B. Comments, concerns, or suggestions regarding the policy statement.
2. Performance Review
 - A. Present total fund and asset class returns for last calendar quarter, year-to-date, last year, last three years, last five years and since inception versus designated benchmarks.
 - B. Discuss performance relative to benchmarks, provide attribution analysis which identifies returns due to allocation and selection decisions, as appropriate.
 - C. Provide portfolio characteristics relative to benchmark.
3. Provide Portfolio Holdings
 - A. Present book value and current market value.
 - B. List individual securities by sector, asset class, or country, as appropriate.

Annually

1. Review of Investment Process and Evaluation of Portfolio Management Process
 - A. Brief review of investment process.
 - B. Investment strategy used over the past year and underlying rationale.
 - C. Evaluation (in hindsight) of strategy's appropriateness.
 - D. Evaluation of strategy's success/disappointments.
 - E. Current investment strategy and underlying rationale.
 - F. Written annual report of the proxy votes for all shares of stock in companies held in the manager's investment program that provides explanations of votes other than those considered routine. These reports shall specifically note any instances where proxies were not voted in accordance with the manager's standing policy.

- G. Each manager shall provide an annual commission report to be delivered to the Board and Investment Consultant within forty-five (45) days of the end of each calendar year [December 31]. The report shall cover all trades executed during the prior calendar year.
- H. On an annual basis, each manager shall submit their soft dollar policy, as well as their soft dollar “usage”, to be delivered to the Board and Investment Consultant within forty-five (45) days of the end of each calendar year [December 31].
- I. Managers shall annually report to the Board, standing policies with respect to ethics and professional practice, within forty-five (45) days of the end of the calendar year [December 31]. Managers shall annually report to the Board compliance with the CFA Institute (CFAI) Code of Ethics. Managers shall disclose if they are made aware of any Chartered Financial Analyst (CFA) charter holders employed by their firm that have been publicly censured by the CFAI.

City of Manchester, NH
Statement of Investment Performance Measurement for
Arrowstreet Global Equity ACWI Strategy
Global Equity Account

1) REPRESENTATIVE MARKET INDEX:

MSCI ACWI Index

2) PERFORMANCE OBJECTIVE:

Arrowstreet shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Global Equity Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Loomis Sayles Global Equity ACWI Strategy
Global Equity Account

1) REPRESENTATIVE MARKET INDEX:

MSCI ACWI Index

2) PERFORMANCE OBJECTIVE:

Loomis Sayles shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Global Equity Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Aristotle Capital Management
Large Capitalization Value Equity Account

1) REPRESENTATIVE MARKET INDEX:

Russell 1000 Value Index

2) PERFORMANCE OBJECTIVE:

Aristotle Capital shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Large Capitalization Value Manager Universe

4) GUIDELINE EXCEPTIONS:

None.

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Sands Capital Management
Large Capitalization Growth Equity Account

1) REPRESENTATIVE MARKET INDEX:

Russell 1000 Growth Index

2) PERFORMANCE OBJECTIVE:

Sands Capital Management shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Large Capitalization Growth Manager Universe

4) GUIDELINE EXCEPTIONS:

Sands Capital Management shall be exempt from language found in Section 6 of the Investment Guidelines and instead shall abide by the following:

“Securities of an individual issuer, excepting the U.S. government and agencies and sovereign nations and their agencies, shall not constitute more than 12% of this investment manager’s portfolio at any time, at market value.”

* A “full market cycle” is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Fidelity 500 Index Fund – Ticker FXAIX
S&P 500 Index Fund

1) REPRESENTATIVE MARKET INDEX:

S&P 500

2) PERFORMANCE OBJECTIVE:

Shall meet the index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not applicable

4) GUIDELINE EXCEPTIONS:

None

* A “full market cycle” is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Boston Trust Walden
Small/Mid Capitalization Core Equity Account

1) REPRESENTATIVE MARKET INDEX:

Russell 2500 Index

2) PERFORMANCE OBJECTIVE:

Boston Trust Walden shall meet or exceed their Index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Small and Mid Capitalization Core Equity Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Hardman Johnston International Equity
International Equity “Growth” Account

1) REPRESENTATIVE MARKET INDEX:

Primary - MSCI EAFE Index
Secondary – MSCI EAFE Growth Index

2) PERFORMANCE OBJECTIVE:

Hardman Johnston shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

International Equity Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A “full market cycle” is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
***Fidelity Total International Index Fund – Ticker Symbol
FTIHX***
International Equity Exposure with Daily Liquidity

1) REPRESENTATIVE MARKET INDEX:

MSCI ACWI

2) PERFORMANCE OBJECTIVE:

Shall meet the index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable.

4) GUIDELINE EXCEPTIONS:

None

* A “full market cycle” is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Top Tier X
International Small Cap Account

1) REPRESENTATIVE MARKET INDEX:

Primary - Cambridge Venture VY

2) PERFORMANCE OBJECTIVE:

Top Tier shall exceed the average return produced by private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

NONE

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
City of London
Emerging Markets Equity Account

1) REPRESENTATIVE MARKET INDEX:

MSCI Emerging Markets Fund

2) PERFORMANCE OBJECTIVE:

City of London shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Emerging Markets Equity Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Income Research & Management
Investment Grade Fixed Income Account

1) REPRESENTATIVE MARKET INDEX:

Bloomberg US Aggregate Index

2) PERFORMANCE OBJECTIVE:

Income Research & Management shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Core Bond Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Loomis Sayles
Diversified Fixed Income Account

1) REPRESENTATIVE MARKET INDEX:

Primary: Bloomberg US Government Credit Index
Secondary: Bloomberg US Aggregate Index

2) PERFORMANCE OBJECTIVE:

Loomis Sayles shall meet or exceed their index by 100 basis points over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Core "Plus" Bond Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Fidelity Inflation Protected Bond Index Fund – Ticker
Symbol FIPDX
Passive Inflation Protection Fixed Income Account

1) REPRESENTATIVE MARKET INDEX:

Bloomberg US TIPS Index

2) PERFORMANCE OBJECTIVE:

Shall meet the index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable.

4) GUIDELINE EXCEPTIONS:

None

* A “full market cycle” is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
Prudential
Real Estate Account

1) REPRESENTATIVE MARKET INDEX:

NCREIF Equity Index

2) PERFORMANCE OBJECTIVE:

Prudential shall meet or exceed their index over a *full market cycle, net of management fees.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Real Estate Manager Universe

4) GUIDELINE EXCEPTIONS:

None

* A "full market cycle" is defined as an investment period of 3 to 5 years.

City of Manchester, NH
Statement of Investment Performance Measurement for
TA Associates Realty Fund X, XII, and XIII
Private Real Estate Account – Value Add

1) REPRESENTATIVE MARKET INDEX:

Primary: NCREIF Property Index
Secondary: Cambridge Private Equity Index

2) PERFORMANCE OBJECTIVE:

TA shall exceed the average return produced by private estate funds of similar vintage, as well as a broad-based real estate benchmark, over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Kayne Anderson Energy Partners VII
Private Energy Opportunity Fund – Opportunistic

1) REPRESENTATIVE MARKET INDEX:

Cambridge Global Natural Resources

2) PERFORMANCE OBJECTIVE:

Kayne Anderson Energy Partners shall exceed the average return produced by private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Kayne Anderson Real Estate Fund V
US Opportunistic Real Estate

1) REPRESENTATIVE MARKET INDEX:

Primary: NCREIF Property Index
Secondary: Cambridge Private Equity Index

2) PERFORMANCE OBJECTIVE:

Kayne Anderson Real Estate Fund V shall exceed the average return produced by private estate funds of similar vintage, as well as a broad-based real estate benchmark, over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Blue Vista Realty
Private Real Estate Account – Value Add

1) REPRESENTATIVE MARKET INDEX:

Primary: NCREIF Property Index
Secondary: Cambridge Private Equity Index

2) PERFORMANCE OBJECTIVE:

Blue Vista shall exceed the average return produced by private estate funds of similar vintage, as well as a broad-based real estate benchmark, over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
DSF Multi-Family Fund III & 2019
Private Real Estate Account – Value Add

1) REPRESENTATIVE MARKET INDEX:

Primary: NCREIF Property Index
Secondary: Cambridge Private Equity Index

2) PERFORMANCE OBJECTIVE:

DSF Group shall exceed the average return produced by private estate funds of similar vintage, as well as a broad-based real estate benchmark, over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Dalfen Last Mile Industrial Fund IV
Private Real Estate Account – Value Add

1) REPRESENTATIVE MARKET INDEX:

Primary: NCREIF Property Index
Secondary: Cambridge Private Equity Index

2) PERFORMANCE OBJECTIVE:

Dalfen shall exceed the average return produced by private estate funds of similar vintage, as well as a broad-based real estate benchmark, over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

No

City of Manchester, NH
Statement of Investment Performance Measurement for
Lexington Partners VII and Lexington Partners VIII
Private Equity Fund of Funds Account - Secondary

1) REPRESENTATIVE MARKET INDEX:

Cambridge Global Secondary Funds

2) PERFORMANCE OBJECTIVE:

Lexington Partners shall exceed the average return produced by private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Newstone Capital Partners
Private Debt – Mezzanine Debt

1) REPRESENTATIVE MARKET INDEX:

Cambridge US Mezzanine 2010

2) PERFORMANCE OBJECTIVE:

Newstone Partners shall exceed the average return produced by private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Crescent Direct Lending Fund I
Private Debt - Senior Lending

1) REPRESENTATIVE MARKET INDEX:

Primary: Credit Suisse Leveraged Loan Index
Barclays Capital Aggregate Bond Index

2) PERFORMANCE OBJECTIVE:

Crescent shall exceed the average return produced by private debt funds of similar vintage, as well as a broad-based fixed income index over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Private Advisors Fund VI,
Private Advisors Fund VIII and Private Advisors IX
Private Equity Fund of Funds

1) REPRESENTATIVE MARKET INDEX:

Primary: Cambridge Global All PE VY
Secondary: Cambridge Private Equity Index

2) PERFORMANCE OBJECTIVE:

Private Advisors shall exceed the average return produced by private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
***CarVal Credit Value Fund B IV LP and
CarVal Credit Value Fund A V LP***
Credit Opportunity

1) REPRESENTATIVE MARKET INDEX:

Primary: Credit Suisse Leveraged Loan Index
Secondary: Cambridge Private Equity Index

2) PERFORMANCE OBJECTIVE:

CarVal shall exceed the average return produced by private debt funds of similar vintage, as well as a broad-based fixed income index over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
HarbourVest HIPEP VIII LP
Private Equity Fund of Funds

1) REPRESENTATIVE MARKET INDEX:

Primary: Cambridge Global PE VY

2) PERFORMANCE OBJECTIVE:

HarbourVest shall exceed the average return produced by global private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
HarbourVest PE Partners Co-Investment Fund V
Private Equity

1) REPRESENTATIVE MARKET INDEX:

Primary: Cambridge Global All PE VY

2) PERFORMANCE OBJECTIVE:

HarbourVest shall exceed the average return produced by global private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
HarbourVest PE Partners IV Real Assets
Private Real Assets

1) REPRESENTATIVE MARKET INDEX:

Primary: NCREIF Property Index

2) PERFORMANCE OBJECTIVE:

HarbourVest shall exceed the average return produced by global private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
HarbourVest XII
Private Equity Fund of Funds

1) REPRESENTATIVE MARKET INDEX:

Primary: Cambridge Global All PE VY

2) PERFORMANCE OBJECTIVE:

HarbourVest shall exceed the average return produced by global private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Searchlight Capital Partners Fund III
Private Equity

1) REPRESENTATIVE MARKET INDEX:

Primary: Cambridge Global All PE

2) PERFORMANCE OBJECTIVE:

Searchlight shall exceed the average return produced by global private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None

City of Manchester, NH
Statement of Investment Performance Measurement for
Nexus Special Situations Fund III
Private Equity

1) REPRESENTATIVE MARKET INDEX:

Primary: Cambridge Global Distressed

2) PERFORMANCE OBJECTIVE:

Nexus shall exceed the average return produced by global private equity funds of similar vintage over the life of the partnership.

3) A UNIVERSE OF PEER INVESTMENT MANAGERS:

Not Applicable

4) GUIDELINE EXCEPTIONS:

None