

# **New Hampshire Retirement System**

A Component Unit of the State of New Hampshire

## **Comprehensive Annual Investment Report**

**For the Fiscal Year Ended June 30, 2020**



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December 8, 2020

The Honorable Christopher Sununu, Governor  
The Honorable Chuck Morse, President of the Senate  
The Honorable Richard Hinch, Speaker of the House of Representatives

### Annual Report 2020

The Independent Investment Committee (Committee) of the New Hampshire Retirement System (NHRS, System) is pleased to present the Comprehensive Annual Investment Report for the Fiscal Year ended June 30, 2020, in accordance with the provisions of the Revised Statutes Annotated (RSA) 100-A:15, VII of the State of New Hampshire.

The Committee would like to honor and thank Senator Harold W. Janeway for his service and commitment to the Independent Investment Committee. Sen. Janeway passed away in August 2020. He was elected to the New Hampshire State Senate in 2007 and served for two terms. During this time, he played an integral role in establishing the Committee, on which he served as its Chair since its inception in January 2009 through February 2017. He will be greatly missed.

### Asset Allocation & Summary of Results

Total assets at the end of Fiscal Year 2020 were flat relative to the prior year's assets of \$9.1 billion. The System's investment portfolio is prudently managed for the long-term in order to generate adequate returns to support benefit payments promised to members. To achieve that goal, investments are broadly diversified across the following asset classes: domestic (U.S.) and non-U.S. stocks, bonds, real estate, and alternative investments.

The target allocation and range for each asset class shown below was adopted by the Board of Trustees on May 14, 2019, based on a recommendation of the Committee.

<b>Asset Class</b>	<b>Target Allocation</b>	<b>Allocation Range</b>	<b>Actual Allocation at June 30, 2020*</b>
U.S. Equity	30%	20 - 40%	30.0%
Non-U.S. Equity	20%	15 - 25%	15.6%
Fixed Income	25%	20 – 30%	24.6%
Real Estate	10%	5 – 20%	10.7%
Alternative Investments	15%	5 – 25%	19.1%

\* U.S. Equity and Non-U.S. Equity have been adjusted to reflect a global equity portfolio which may opportunistically invest in each of these asset classes. Fixed Income includes cash. Refer to Appendix C for additional detail.

As illustrated in the table, as of June 30, 2020 all asset classes were within the allocation ranges.

The NHRS return was 1.1% net of fees for the Fiscal Year ended June 30, 2020 compared to the benchmark’s return of 4.8%. The five-year annualized net of fees return was 5.9% compared to the benchmark return of 6.9%. The ten-year annualized net of fees return and benchmark return were 8.7% and 9.3%, respectively. Note that these benchmarks do not include any management fees which would be incurred if NHRS invested in the underlying indices. Compared to our peers, NHRS ranked in the top 50% and 24% for the five and ten-year trailing periods, respectively. These rankings are based on the InvMetrics Public Defined Benefit Net Universe.

Over the long-term the 25-year annualized net of fees return was 7.5%. The System’s current actuarial assumed rate of return is 6.75% which was reduced from 7.25% in June 2020.

***Please refer to Appendix A for a detailed review of investment performance as well as market commentary.***

### The Committee

The Committee is responsible for investing in accordance with policies established by the NHRS Board of Trustees (Board); making recommendations to the Board regarding asset allocation; investment consultants, and other investment policy matters. In addition, the Committee is responsible for selecting investment managers, agents, and custodial banks; and reviewing performance.

The Committee meets monthly and is comprised of six members: three independent members and an active member of the retirement system appointed by the Governor and Executive Council; and two members of the Board of Trustees appointed by the Chair of the Board. All are required by statute to have significant experience in institutional investing or finance. As of June 30, 2020 the three independent members were Christine Clinton, CFA; Daniel LaPlante, CFA; and Keith Quinton and the active member was Michael McMahon.

The two Board members serving on the Committee are Maureen Kelliher, CFA (Chair); and Timothy Lesko. Brief biographies and photographs of the Committee members follow this report.

### Investment Manual

The NHRS Investment Manual which provides governance and oversight of the pension fund assets is presented in Appendix C of this report and highlights are listed below:

- The Investment Policy and Accountability Matrix provide a description of the roles and responsibilities of the Board, the Investment Committee, NHRS Staff, and the System's service providers
- The Proxy Voting Policy and Securities Lending Policy provide specific guidance on these individual topics
- The program's benchmarks and asset allocation policy are detailed along with discussions of risk management, liquidity, rebalancing and portfolio monitoring controls
- Various considerations related to the oversight of investments are described, including the selection of service providers and use of active or passive strategies
- Asset class guidelines detail portfolio construction, permissible and prohibited investment vehicles, as well as concentration limits

The Board sets the assumed rate of return based on the recommendations of the System's actuary, staff, the Investment Committee, and analysis provided by the investment consultant and other industry experts. A written opinion letter on this subject is included in this report as Appendix B.

## Governance, Benchmarks and Measurement of Outcomes

The management and administration of the pension trust is a complex effort involving multiple stakeholders with distinct roles and responsibilities as described in the Investment Manual and in statute. At each regular meeting of the Board or Investment Committee, status reports are provided regarding the outcomes of various investment initiatives. Additionally, performance is reviewed versus benchmarks at the manager-level, asset class-level, and portfolio-level on a monthly and quarterly basis, as appropriate, and over various time-periods since the inception of a particular investment mandate or strategy to continually evaluate the portfolio.

NHRS continuously monitors the investment fees paid to managers and consistently ranks favorably as compared to peers in the public fund universe. The NHRS investment expenses for the prior fiscal year were 30 basis points (bps) as compared to the NEPC Public Fund Universe average investment expenses of 48 bps and the NCPERS Universe average investment expenses of 48 bps. NHRS has a procedure to monitor Environmental, Social, and Governance factors for all marketable managers.

## Administrative Comments

The Committee meets at the System's offices monthly. Notice is provided regarding the time, agenda and location of these meetings pursuant to RSA 91-A:2, II. The Committee promotes transparency regarding the investment program through these public meetings, investment materials and reports. Meeting minutes are posted on the NHRS website. Certain investment matters may require discussion in non-public session in accordance with statute. On a regular basis, the Committee receives presentations from investment managers currently retained by NHRS as well as from prospective managers.

Lawrence A. Johansen is the System's Director of Investments. In this role, Mr. Johansen serves as the primary staff liaison on investment matters. In addition, he directs all aspects of the System's investment program including the development of recommendations regarding the System's overall investment strategy and asset allocation; oversight of external portfolio managers; and promoting productive relationships with investment consultants and service providers. A brief biography of Mr. Johansen follows this report.



Each fiscal year, NHRS produces a Comprehensive Annual Financial Report (CAFR) which details the operation and financial condition of the retirement system. This report also includes a financial section which outlines the funded status and unfunded actuarial accrued liability, in addition to other actuarial statistics. CAFR reports are available on the System's website, [www.nhrs.org](http://www.nhrs.org).

#### Overview of Significant Investment Committee Initiatives during the Fiscal Year:

- Reviewed capital market expectations and asset allocation in conjunction with a review of the actuarial assumed rate of return (ARR). Recommended a revised ARR to Board.
  - In June 2020 the Board adopted an ARR of 6.75% (from 7.25%)
- Reviewed the long-term performance of all current marketable investment managers against their respective benchmarks and renewed their contracts, where appropriate:
  - Terminated a non-U.S. equity manager and transferred the assets to the existing developed market non-U.S. equity managers
- Reviewed and renewed, where appropriate, service provider/other contracts:
  - Renewed the trading cost analysis provider agreement with Abel Noser for an additional two-year period
  - Issued Request For Proposal (RFP) for investment consultant which resulted in a contract with Callan for a five-year period
- Completed rebalance of the fixed income portfolio
- Reviewed and discussed the structure of the public markets portfolio
- Performed a comprehensive review of all private debt and equity commitments made since the program's restart in 2009 and adopted an annual private debt and equity strategic plan

- Continued the expansion of the alternative investments program; New commitments of \$200 million in aggregate were made to two private equity and one private debt investment strategies totaling \$150 million and \$50 million, respectively
- Adopted an annual real estate manager investment plan

The Investment Committee is dedicated to achieving the best long-term investment results possible within acceptable levels of risk and consistent with prudent policies and practices.

Respectfully submitted,

Maureen Kelliher, Chair  
Christine Clinton  
Daniel LaPlante  
Timothy Lesko  
Michael McMahon  
Keith Quinton

George P. Lagos, Executive Director  
Lawrence A. Johansen, Director of Investments



Maureen Kelliher has more than three decades of investment management experience. She has served as co-chief and chief investment officer for trust and investment management firms as well as money desk manager for several banks. In addition to being a member of the Board of Trustees of the New Hampshire Retirement System, Maureen holds the Chartered Financial Analyst designation and is a member of the CFA Institute.



Christine Clinton has been working in the investment management industry for more than a decade after co-founding Bluestone Wealth Management LLC. Prior to Bluestone, she worked as a Corporate Controller for several hi-tech start-ups in the communications, finance and biotech industries in the Boston area. Christine is a CPA as well as a Chartered Financial Analyst (CFA) charterholder. She is a member of the CFA Institute and Boston Securities Analysts Society.



Dan LaPlante has over 30 years of experience in investment management for institutions and individuals. He has significant background in asset allocation, risk management, and manager evaluation. He also has experience in treasury and balance sheet risk management in the financial services industry. Dan is involved with several non-profit organizations and is a CFA Charterholder. He is a member of the CFA Institute and the Boston CFA Society.



Tim Lesko is a Partner and Portfolio Manager at Granite Investment Advisors. He joined the firm in 1999. Along with the other Partners, he is responsible for the management of Granite Investment Advisors and the High Net Worth team. His 22 years of vast industry experience began with positions at Merrill Lynch and NationsBanc Montgomery Securities. Tim has had numerous television appearances as a trusted research specialist with CNBC, NPR Nightly Business Review and Fox Business News.



Michael McMahon has been a member of Hampton Fire rescue for over 25 years, rising to the rank of Captain. During this time he has served in a variety of financial and investment roles. He has spent nearly two decades in credit union leadership and is currently a director at Service Credit Union. He is chairman of the Board of Trustees at Cocheco Academy of the Arts, a public charter school. Mike was a member of the 2017 Decennial Retirement Commission and serves in many other community leadership roles.



Keith Quinton is a 30+ year investment industry veteran with broad and deep experience managing complex multi-billion dollar institutional and mutual fund portfolios. He held a variety of positions at well-known firms including: Drexel Burnham, Putnam Investments, MFS and Fidelity. He is currently a lecturer at the Tuck School at Dartmouth, chairman of the board for the New Hampshire Municipal Bond Bank and is an independent trustee at Eaton Vance Funds.



Lawrence A. Johansen has more than four decades of experience with investment and administration of public pensions. He held progressively more responsible positions at the New York State Teachers' Retirement System. His most recent positions at the New York State Teachers' Retirement System were Managing Director, Securities Investment Officer and Actuary.

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# **Appendix A**

Investment Consultant's Letter

Investment Performance Review & Market Commentary

Investment Reports

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NEPC, LLC

**KEVIN M. LEONARD**  
PARTNER

October 14, 2020

Board of Trustees  
Investment Committee  
Executive Director

**The New Hampshire Retirement System**

54 Regional Drive  
Concord, NH 03301-8507

Dear NHRS Fiduciaries:

NEPC, LLC (NEPC) is pleased to introduce this overview of the New Hampshire Retirement System (NHRS) investment program for the fiscal year ended June 30, 2020.

The overall objective of NHRS is to provide service, disability, death and vested retirement benefits, and other postemployment benefits to members and their beneficiaries. To ensure a solid foundation for the future of the System, NHRS plans and implements an investment program designed to achieve the maximum rate of return over the long term, while prudently managing the risk of the portfolio. Additionally, the NHRS investment program is administered in accordance with sound governance practices and applicable statutes. The Board of Trustees (Trustees) established an Investment Policy which includes asset allocation targets and acceptable ranges as well as asset class benchmarks for performance measurement. The Trustees retain the services of actuaries and consultants to provide guidance regarding actuarial matters, asset allocation, and investment policy. The Independent Investment Committee (Committee) manages the investment program pursuant to the investment policy, develops asset class guidelines, monitors and evaluates performance, and makes determinations regarding the retention of managers. Professional investment managers are selected by the Committee to manage portfolios in accordance with investment management agreements. The investment manual includes all investment policies and asset class guidelines and may be obtained from the NHRS website at [www.nhrs.org](http://www.nhrs.org). The following pages report on the performance and attributes of the investment program for fiscal year 2020.

**Market Review for the Year Ended June 30, 2020**

The fiscal year ended 2020 saw the end of the longest economic expansion on record. Economies around the world were disrupted because of COVID-19 and markets reacted with historically fast-paced declines. Governments and central banks from around the world took extraordinary measures to stimulate shuttered economies. In the U.S., fiscal stimulus reached over 12% of GDP while Germany, Japan, France and the U.K. had materially larger stimulus packages. The Federal Reserve provided additional support to the U.S. economy by reducing the Fed Funds Rate to a targeted range of 0.00% -to- 0.25%, resumed quantitative easing, and flooded markets with liquidity. Similar actions were taken by central banks globally. These stimulus measures, along with optimism around a potential vaccine for COVID-19 and easing of lockdown restrictions resulted in a historically dramatic reversal in risk assets in the fourth fiscal quarter. U.S. stocks posted their eleventh consecutive year of positive returns and outperformed international equities, returning 7.5% as measured by the S&P 500 Index. International developed-markets equities returned -5.1% for the year, as measured by the

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MSCI EAFE Index, lagging domestic equities by 12.6%. U.S. equity outperformance was driven in large part by big technology stocks that benefitted from a demand surge in the wake of the pandemic. Emerging markets equities as measured by the MSCI Emerging Markets Index returned -3.4%, underperforming U.S. equities and outperforming international-developed markets equities. Driven by declining interest rates and demand for safe-haven assets, U.S. high quality fixed income investments generated a positive 8.7% return in the fiscal year as measured by the Bloomberg Barclays U.S. Aggregate Bond Index.

### **The NHRS Investment Portfolio**

For the fiscal year ended June 30, 2020, the NHRS Total Fund returned 1.1% on a net-of-fees basis, underperforming the Total Fund custom benchmark return of 4.8% and ranking in the 84<sup>th</sup> percentile (1% being the highest, 100% being the lowest) relative to other investors in the InvMetrics Public Defined Benefit Net Universe (universe). NHRS's fiscal year fourth quartile relative ranking was impacted by the domestic equity portfolio's value bias, the domestic equity portfolio's small/SMID cap overweight and the fixed income portfolio's underweight to U.S. Treasuries. For the trailing three years ending June 30, 2020, the NHRS Total Fund return of 5.2% ranked in the 71<sup>st</sup> percentile of the universe. For the trailing five years ending June 30, 2020 the NHRS Total Fund return of 5.9% ranked in the 50<sup>th</sup> percentile of the universe. During the following periods the NHRS Total Fund provided strong annualized net-of-fees returns relative to the universe: For the trailing ten year period ending June 30, 2020, the NHRS Total Fund returned 8.7% and ranked in the 24<sup>th</sup> percentile of the universe; For the trailing twenty-five year period ending June 30, 2020, the NHRS Total Fund returned 7.5%, exceeding the current assumed rate of return of 6.75%, and ranked in the 29<sup>th</sup> percentile of the universe.

During fiscal year 2020, the Committee monitored and executed the structure of the marketable assets portfolio and continued to implement the expansion of the alternative investment portfolio.

NEPC provides NHRS with quarterly economic and investment market updates and performance reviews, investment manager monitoring and selection advice, and related investment services for traditional and non-traditional asset classes. Investment performance analysis and comparisons produced by NEPC have been calculated using standard performance evaluation methodologies and are consistent with industry standards. Performance results are calculated using a time-weighted return methodology and are reported on a net-of-fees basis.

Sincerely,

A handwritten signature in black ink, appearing to be 'S. M. L.', is located below the word 'Sincerely,'. The signature is fluid and cursive.

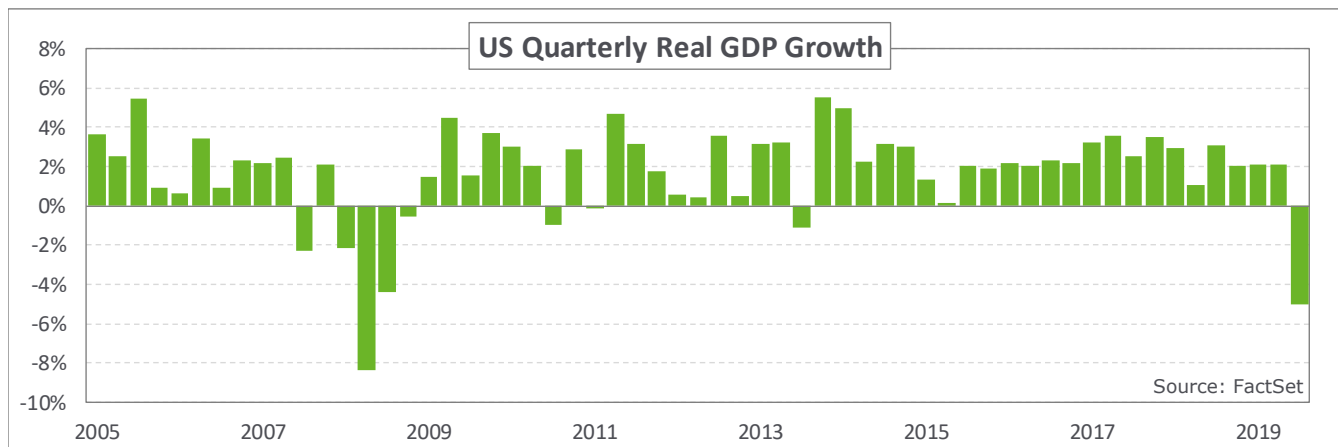


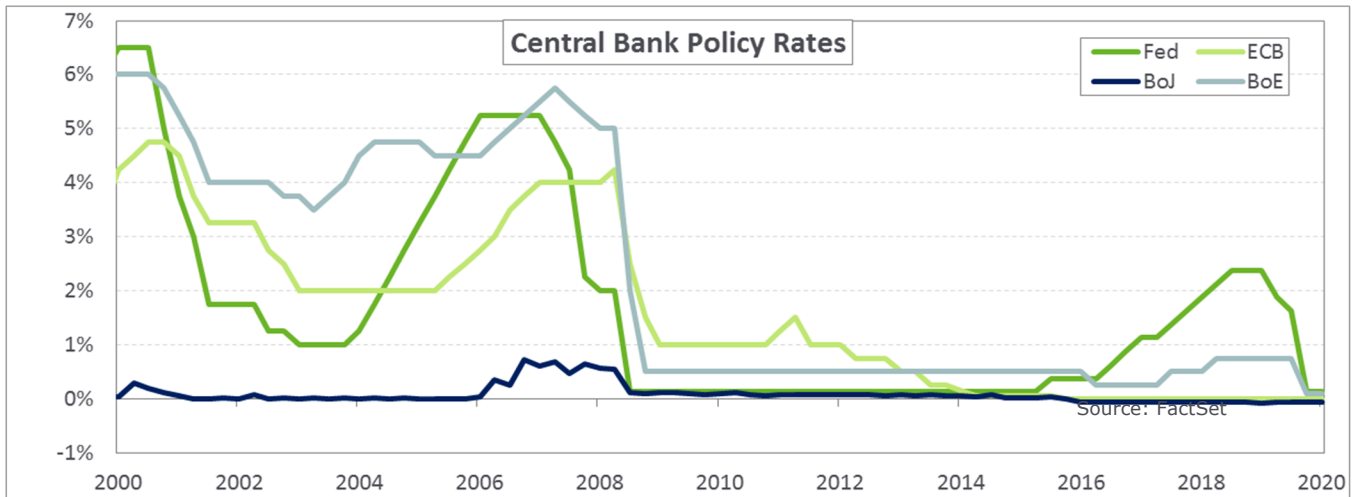
## Investment Performance Review – Fiscal Year 2020

### Overview

The fiscal year ended June 2020 saw the end of the longest economic expansion on record. Economies around the world were disrupted because of COVID-19 and markets reacted with historically fast-paced declines. Governments and central banks from around the world took extraordinary measures to stimulate shuttered economies. In the U.S., fiscal stimulus reached over 12% of GDP while Germany, Japan, France and the U.K. had materially larger stimulus packages. The Federal Reserve provided additional support to the U.S. economy by reducing the Fed Funds Rate to a targeted range of 0.00% -to- 0.25%, resumed quantitative easing, and flooded markets with liquidity. Similar actions were taken by central banks globally. These stimulus measures, along with optimism around a potential vaccine for COVID-19 and easing of lockdown restrictions resulted in a historically dramatic reversal in risk assets in the fourth fiscal quarter. U.S. stocks posted their eleventh consecutive year of positive returns and outperformed international equities, returning 7.5% as measured by the S&P 500 Index. International developed-markets equities returned -5.1% for the year as measured by the MSCI EAFE Index and lagged domestic equities by 12.6% as measured by the S&P 500 Index. U.S. equity outperformance was driven in large part by big technology stocks that benefitted from a demand surge in the wake of the pandemic. Emerging markets equities returned -3.4% as measured by the MSCI Emerging Markets Index, underperforming U.S. equities and outperforming international-developed markets equities. Driven by declining interest rates and demand for safe-haven assets, U.S. high quality fixed income investments generated a positive 8.7% return in the fiscal year as measured by the Bloomberg Barclays U.S. Aggregate Bond Index.

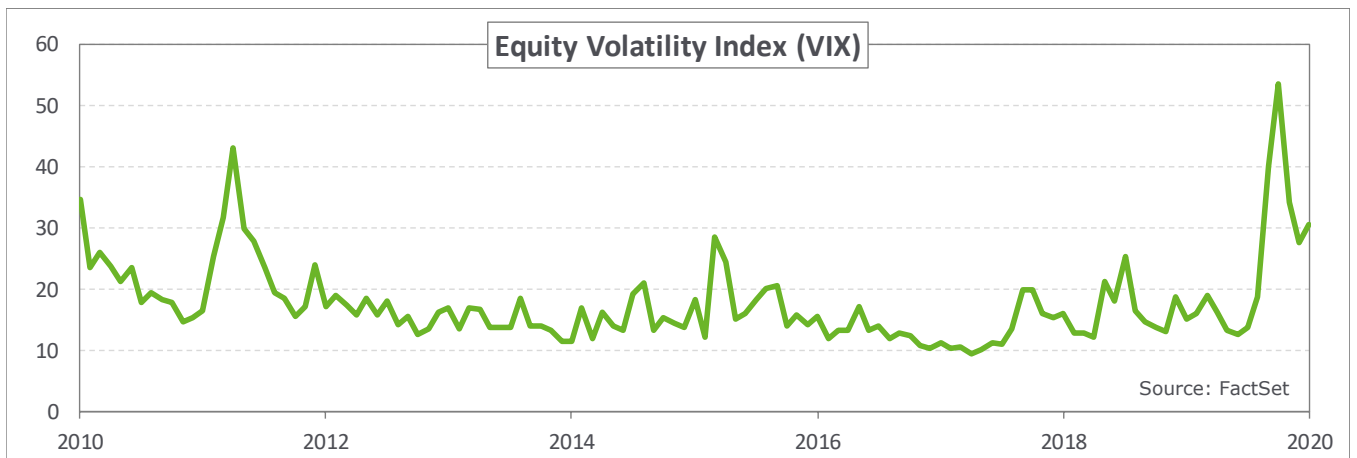
For the fiscal year ended June 30, 2020, the NHRS Total Fund returned 1.1% on a net-of-fees basis, underperforming the Total Fund custom benchmark return of 4.8% and ranking in the 84<sup>th</sup> percentile (1% being the highest, 100% being the lowest) relative to other investors in the InvMetrics Public Defined Benefit Net Universe (universe). NHRS's fiscal year fourth quartile relative ranking was impacted by the domestic equity portfolio's value bias, the domestic equity portfolio's small/SMID cap biases, and the fixed income portfolio's underweight to U.S. Treasuries. For the trailing three years ending June 30, 2020, the NHRS Total Fund return of 5.2% ranked in the 71<sup>st</sup> percentile of the universe. For the trailing five years ending June 30, 2020 the NHRS Total Fund return of 5.9% ranked in the 50<sup>th</sup> percentile of the universe. During the following periods the NHRS Total Fund provided strong annualized net-of-fees returns relative to the universe: For the trailing ten year period ending June 30, 2020, the NHRS Total Fund returned 8.7% and ranked in the 24<sup>th</sup> percentile of the universe; For the trailing twenty-five year period ending June 30, 2020, the NHRS Total Fund returned 7.5%, exceeding the current assumed rate of return of 6.75%, and ranked in the 29<sup>th</sup> percentile of the universe.





**U.S. Equity Markets**

U.S. stocks posted their eleventh consecutive year of positive returns and outperformed international equities, returning +7.5% as measured by the S&P 500 Index. U.S. equities outperformance was primarily driven by a few large technology stocks which benefitted from a demand surge in the wake of the pandemic. Although technology companies began the fiscal year detracting from domestic equity portfolio, the sector was a significant driver of performance with a fiscal year return of 35.9% as measured by the S&P Technology Index. Growth ended the fiscal year outpacing value, driven in part by the markets increasing risk appetite, ending the fiscal year with the widest margin for a 6-month period since 1998. Large cap names outpaced their small cap peer, returning +7.5% as measured by the S&P 500 versus the Russell 2000 return which returned -6.6% for the one year period.

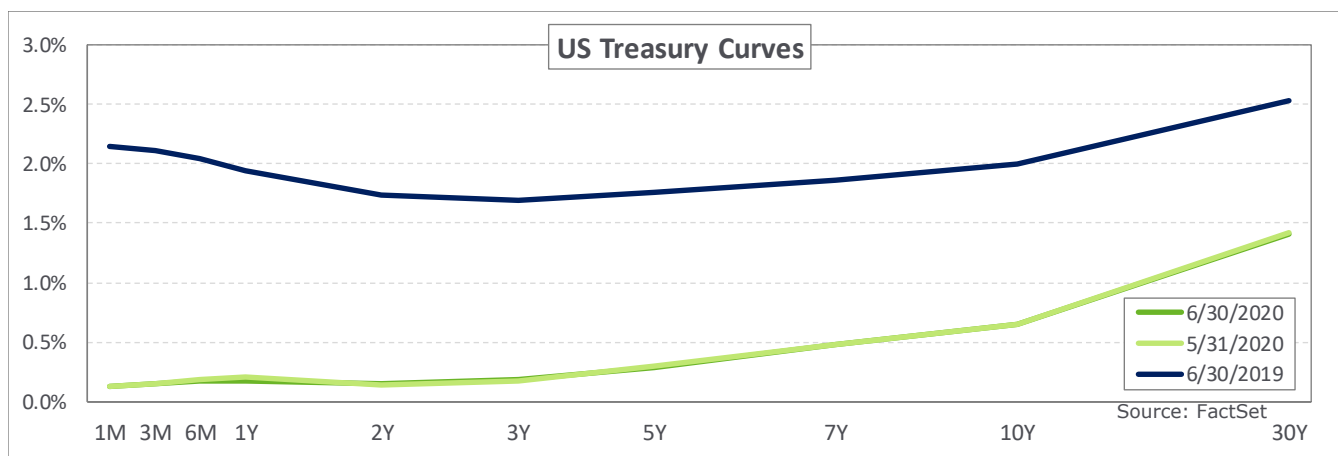


**Non-U.S. Equities**

International stocks saw a volatile fiscal year, beginning with negative returns driven by increased volatility amid concerns around the global fallout from the ongoing trade war between the United States and China. International names were a part of the equity blaze of glory during the last quarter of 2019, driven by strong emerging market returns as the trade pact between the US and China was used to inject confidence into the international markets. The positive returns from quarter end of 2019 were disintegrated as the equity markets took a nosedive as markets entered into a global pandemic. For the fiscal year end, developed markets underperformed emerging markets, although both ended the one year period with negative returns. One bright spot within international markets was Japan, which was helped during Q2 2020 when the Japanese government approved a record stimulus package equalling almost 40% of GDP to prevent COVID-19. For the one year period ending June 30, 2020, developed markets, measured by MSCI EAFE, posted a return of -5.1% and emerging markets (measured by MSCI Emerging Markets Index) posted a return of -3.4%.

## Fixed Income

Driven by declining interest rates and demand for safe-haven assets, U.S. high quality fixed income investments generated a positive 8.7% return in the fiscal year as measured by the Bloomberg Barclays U.S. Aggregate Bond Index. Credit markets ended the fiscal year with Corporate bond spreads compressed significantly in the second quarter of 2020 amid the Fed's massive intervention in fixed income markets. The central bank held benchmark rates at a range of 0% to 0.25%. US corporate credit benefitted from improved market liquidity with the Bloomberg Barclays US Aggregate Index returning 2.9% in the second quarter bringing fiscal year end gains to +8.7%; the Bloomberg Barclays US Corporate High Yield Index was flat, while the S&P/LSTA Leveraged Loan Index returned -0.5% for the fiscal year.



## Real Estate and Alternative Investments

The real estate market returned 2.2% for the fiscal year as measured by the NCREIF ODCE Index. Positive returns in the second half of 2019 helped mitigate the losses faced year-to-date as the real estate market has been challenged in 2020, specifically the hospitality and retail sectors.

Alternative investments posted negative returns for the fiscal year as non-essential goods and services experienced very low demand. Commodities were in the red in fiscal year 2020, down 17.3%, according to the Bloomberg Commodity Index; losses were fueled by ongoing concerns about the global outlook and pandemic-resistant sectors.

## NHRS Asset Class Highlights

NHRS Asset Class	FY Return
<b>Total Fund</b>	<b>1.1%</b>
<i>Total Fund Custom Index</i>	4.8%
<b>Total Domestic Equity</b>	<b>0.4%</b>
<i>US Equity Index</i>	7.5%
<b>Total Non-US Equity</b>	<b>-4.9%</b>
<i>Non-US Equity Index</i>	-4.8%
<b>Total Fixed Income</b>	<b>6.5%</b>
<i>Fixed Income Benchmark</i>	7.9%
<b>Total Real Estate</b>	<b>3.5%</b>
<i>Real Estate Blended Benchmark</i>	1.3%
<b>Total Alternatives</b>	<b>0.5%</b>
<i>Alternative Assets Benchmark</i>	7.1%

The NHRS Total Domestic Equity portfolio, comprised of both passive and actively managed portfolios, returned 0.4% (net) underperforming the U.S. Equity Index return of 7.5% by 710 basis points. The Domestic Equity portfolio was hindered by its value bias as growth stocks (Russell 1000 Growth Index) outperformed value stocks (Russell 1000 Value Index) by 32.1% for the year. The small/SMID-cap exposure also served as a headwind as larger cap names outperformed their small/SMID-cap counterparts. Large cap was up 7.5% (S&P 500 Index) while small cap stocks (Russell 2000) were down 6.6% for the fiscal year.

The NHRS Total Non-U.S. Equity portfolio, which is comprised of actively-managed portfolios with exposures to both developed and emerging countries, returned -4.9% (net). The Non-U.S. Equity portfolio underperformed its benchmark by 10 basis points this fiscal year.

The NHRS Total Fixed Income portfolio is comprised of broadly diversified actively managed portfolios, and includes domestic and international exposures. This aggregate portfolio generated a net 6.5% return, underperforming the Total Fixed Income Index return of 7.9% by 140 basis points. Underperformance was primarily driven by the portfolio's non-US exposures and non-investment grade sectors exposure.

The NHRS Real Estate portfolio returned 3.5% (net) outperforming its benchmark of 1.3% by 220 basis points. Outperformance came from both the Core and Non-Core Real Estate allocations within the portfolio.

Lastly, for fiscal year 2020, the Alternative Investment portfolio generated a return of 0.5% (net) while its benchmark returned 7.1%. Underperformance being impacted by newer commitments within the private equity portfolio (J-curve impact).

Investment Market Update (sorted by asset type)

Index Summary (6/30/20)	1 Year	3 Year	5 Year	10 Year
<b>Equity</b>				
S&P 500	7.5%	10.7%	10.7%	14.0%
Russell 1000	7.5%	10.6%	10.5%	14.0%
Russell 1000 Growth	23.3%	19.0%	15.9%	17.2%
Russell 1000 Value	-8.8%	1.8%	4.6%	10.4%
Russell 2000	-6.6%	2.0%	4.3%	10.5%
Russell 2000 Growth	3.5%	7.9%	6.9%	12.9%
Russell 2000 Value	-17.5%	-4.3%	1.3%	7.8%
Russell 2500	-4.7%	4.1%	5.4%	11.5%
Russell 3000	6.5%	10.0%	10.0%	13.7%
MSCI ACWI	2.1%	6.1%	6.5%	9.2%
MSCI ACWI ex US	-4.8%	1.1%	2.3%	5.0%
MSCI EAFE	-5.1%	0.8%	2.1%	5.7%
MSCI EAFE SC	-3.5%	0.5%	3.8%	8.0%
MSCI Europe	-6.8%	0.0%	1.5%	5.7%
MSCI Japan	3.1%	3.0%	3.4%	6.1%
MSCI Emerging Markets	-3.4%	1.9%	2.9%	3.3%
<b>Fixed Income</b>				
Barclays Aggregate 1-3 Year	4.0%	2.8%	2.1%	1.6%
Barclays Aggregate	8.7%	5.3%	4.3%	3.8%
Barclays TIPS	8.3%	5.0%	3.7%	3.5%
Barclays High Yield	0.0%	3.3%	4.8%	6.7%
S&P/LSTA US Lev Loan 100	-0.5%	2.5%	3.0%	4.1%
Barclays Global Agg	4.2%	3.8%	3.6%	2.8%
Barclays Muni High Yield	1.0%	5.3%	5.8%	6.1%
JPM EMBI Global Diversified	0.5%	3.6%	5.3%	6.0%
JPM GBI-EM Global Diversified	-2.8%	1.1%	2.3%	1.6%
<b>Other</b>				
Bloomberg Commodity Index	-17.3%	-6.1%	-7.7%	-5.8%
GSCI Commodity Index	-33.7%	-8.7%	-12.5%	-8.5%
Alerian Midstream Index	-29.4%	-8.9%	-8.0%	-
NAREIT Composite Index	-8.0%	2.8%	6.2%	9.9%
NCREIF ODCE Index	2.2%	5.7%	7.3%	10.8%

Investment Market Update (sorted by best to worst 1-year performers)

Index Summary (6/30/20)	1 Year	3 Year	5 Year	10 Year
Russell 1000 Growth	23.3%	19.0%	15.9%	17.2%
Barclays Aggregate	8.7%	5.3%	4.3%	3.8%
Barclays TIPS	8.3%	5.0%	3.7%	3.5%
S&P 500	7.5%	10.7%	10.7%	14.0%
Russell 1000	7.5%	10.6%	10.5%	14.0%
Russell 3000	6.5%	10.0%	10.0%	13.7%
Barclays Global Agg	4.2%	3.8%	3.6%	2.8%
Barclays Aggregate 1-3 Year	4.0%	2.8%	2.1%	1.6%
Russell 2000 Growth	3.5%	7.9%	6.9%	12.9%
MSCI Japan	3.1%	3.0%	3.4%	6.1%
NCREIF ODCE Index	2.2%	5.7%	7.3%	10.8%
MSCI ACWI	2.1%	6.1%	6.5%	9.2%
Barclays Muni High Yield	1.0%	5.3%	5.8%	6.1%
JPM EMBI Global Diversified	0.5%	3.6%	5.3%	6.0%
Barclays High Yield	0.0%	3.3%	4.8%	6.7%
S&P/LSTA US Lev Loan 100	-0.5%	2.5%	3.0%	4.1%
JPM GBI-EM Global Diversified	-2.8%	1.1%	2.3%	1.6%
MSCI Emerging Markets	-3.4%	1.9%	2.9%	3.3%
MSCI EAFE SC	-3.5%	0.5%	3.8%	8.0%
Russell 2500	-4.7%	4.1%	5.4%	11.5%
MSCI ACWI ex US	-4.8%	1.1%	2.3%	5.0%
MSCI EAFE	-5.1%	0.8%	2.1%	5.7%
Russell 2000	-6.6%	2.0%	4.3%	10.5%
MSCI Europe	-6.8%	0.0%	1.5%	5.7%
NAREIT Composite Index	-8.0%	2.8%	6.2%	9.9%
Russell 1000 Value	-8.8%	1.8%	4.6%	10.4%
Bloomberg Commodity Index	-17.3%	-6.1%	-7.7%	-5.8%
Russell 2000 Value	-17.5%	-4.3%	1.3%	7.8%
Alerian Midstream Index	-29.4%	-8.9%	-8.0%	-
GSCI Commodity Index	-33.7%	-8.7%	-12.5%	-8.5%

S&P 500 Sectors (sorted by best to worst 1-year performers)

Index Summary (6/30/19-6/30/20)	Benchmark Weight (%)	Benchmark Return (%)
Information Technology	27.5	35.9
Consumer Discretionary	10.8	12.6
Communication Services	10.8	11.1
Health Care	14.6	10.9
Consumer Staples	7.0	3.6
Materials	2.5	-1.1
Real Estate	2.8	-2.0
Utilities	3.1	-2.1
Industrials	8.0	-9.0
Financials	10.1	-13.9
Energy	2.8	-36.1

\* Source: FactSet

## Summary

We continue to believe that the asset allocation of the NHRS portfolio will benefit from its diversification as volatility may increase and central bank policy drives markets. Most importantly the long-term focus remains to reduce the volatility of the portfolio, achieve above-market returns, and position the portfolio to meet the objectives of the pension plan. This has certainly been the case for NHRS over the long-term as the net of fee twenty-five-year return, as of June 30, 2020, was 7.5% annualized.

## INVESTMENT REPORTS

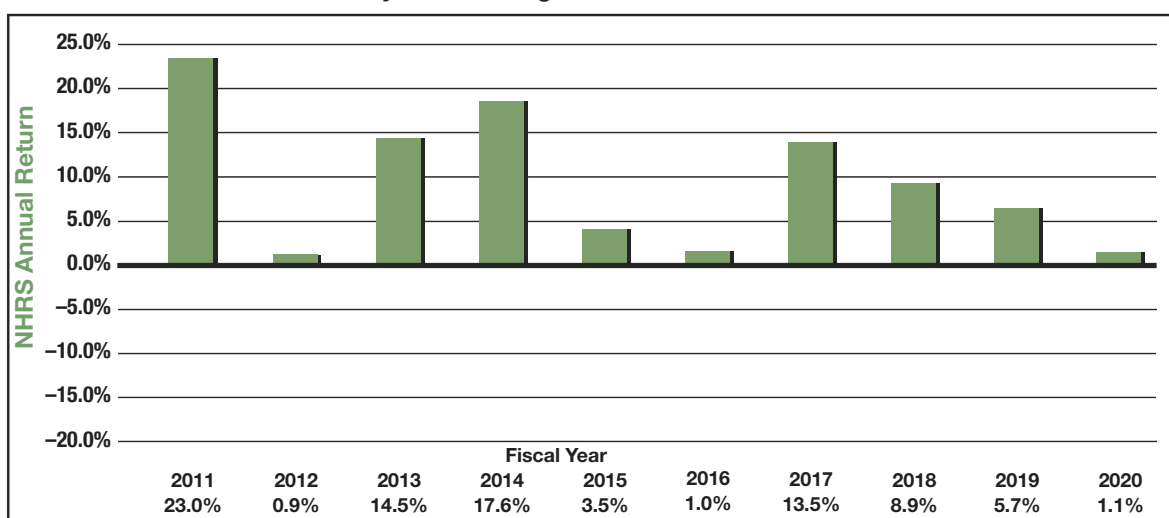
### ANNUALIZED INVESTMENT RETURNS—ACTUAL VERSUS INDICES

	Current Year 2020	3 Year	Annualized 5 Year	10 Year
Total NHRS Fund	1.1%	5.2%	5.9%	8.7%
Total Fund Custom Index*	4.8	6.7	6.9	9.3
Domestic Equity	0.4	6.8	7.8	12.3
Total Domestic Equity Blended Benchmark*	7.5	10.7	10.7	14.1
Non-U.S. Equity	-4.9	1.6	3.0	5.7
Total Non-U.S. Equity Blended Benchmark*	-4.8	1.1	2.3	5.0
Fixed Income	6.5	4.3	4.2	4.5
Total Fixed Income Blended Benchmark*	7.9	5.2	4.4	4.1
Real Estate	3.5	7.0	8.7	11.1
Total Real Estate Blended Benchmark*	1.3	4.7	6.3	9.8
Alternative Investments	0.5	6.0	6.5	6.9
Total Alternative Investments Blended Benchmark*	7.1	8.4	8.2	12.1
Cash Equivalents	1.8	1.9	1.3	0.7
90 Day T-Bills	1.3	1.7	1.1	0.6

Performance returns are calculated on a net-of-fees time-weighted rate of return basis.

\*In a dynamic market, strategies and objectives evolve over time. Consequently, these benchmarks are blended due to historical investment strategy decisions. Detailed descriptions of the benchmarks above are available by contacting NHRS.

### Ten Year History of Time-Weighted Total NHRS Fund Annual Returns

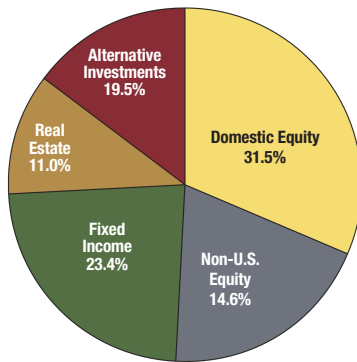




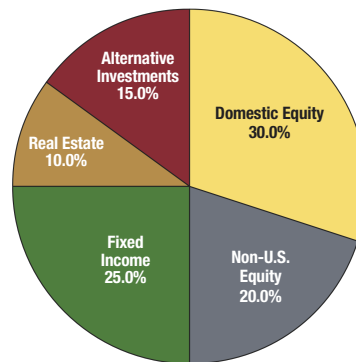
**ACTUAL ASSET ALLOCATION VERSUS TARGET ASSET ALLOCATION**

	Actual %	As of June 30, 2020	
		Target %	Target Range %
Domestic Equity	31.5	30.0%	20 – 40
Non-U.S. Equity	14.6	20.0	15 – 25
Fixed Income	23.4	25.0	20 – 30
Real Estate	11.0	10.0	5 – 20
Alternative Investments	19.5	15.0	5 – 25
<b>TOTAL FUND</b>	<b>100.0%</b>	<b>100.0%</b>	

**Actual Asset Allocation as of June 30, 2020**



**Target Asset Allocation as of June 30, 2020**



**TEN LARGEST STOCK HOLDINGS BY FAIR VALUE\*** (in thousands)

	<b>Shares</b>	<b>Stock</b>	<b>June 30, 2020 Fair Value</b>
1	483,568	Microsoft Corp.	\$98,411
2	213,543	Apple Inc.	77,900
3	25,413	Amazon.com Inc.	70,110
4	22,013	Alphabet Inc. — CL C	31,118
5	126,029	Facebook Inc.	28,617
6	18,909	Alphabet Inc. — CL A	26,814
7	184,986	Johnson & Johnson	26,015
8	85,423	Mastercard Inc.	25,260
9	56,452	Adobe Inc.	24,574
10	68,717	Roche Holding AG	23,812

**TEN LARGEST FIXED INCOME HOLDINGS BY FAIR VALUE\*** (in thousands)

	<b>Par**</b>	<b>Security</b>	<b>June 30, 2020 Fair Value</b>
1	21,557,000	U.S. Treasury Bond — 4.500%, 2038	\$34,009
2	16,800,000	U.S. Treasury Bond — 3.500%, 2039	23,768
3	21,534,000	U.S. Treasury Note — 0.375%, 2025	21,632
4	15,120,000	U.S. Treasury Bond — 3.000%, 2048	20,793
5	12,761,000	U.S. Treasury Bond — 4.500%, 2036	19,534
6	14,204,192	U.S. Treasury CPI Inflation — 0.125%, 2024	14,876
7	14,500,000	U.S. Treasury Note — 0.125%, 2022	14,489
8	14,040,000	U.S. Treasury Note — Var Rate, 2022	14,048
9	11,130,000	U.S. Treasury Note — Var Rate, 2022	11,145
10	9,174,000	U.S. Treasury Bond — 2.250%, 2049	11,033

\*A complete listing of separate account portfolio holdings is available by contacting the NHRS offices. NHRS also invests in various commingled investment vehicles, for which the underlying investments are custodied outside of The Bank of NY Mellon (Master Custodian for NHRS), as reported on the Summary of Investments schedule.

\*\*Par value is denoted in local currency.

**SCHEDULE OF INVESTMENT MANAGEMENT AND SERVICE FEES**

	YEAR ENDED JUNE 30, 2020		
	Assets Under Management (in thousands)	Fees (in thousands)	Average Basis Points
<b>INVESTMENT MANAGEMENT FEES</b>			
Equity Portfolios:			
Domestic	\$ 2,780,008	\$ 7,868	28
Non-U.S.	1,287,403	8,855	69
Fixed Income Portfolios	2,066,842	6,467	31
Alternative Investments*	1,724,604	—	—
Real Estate	967,354	2,392	25
Cash and Cash Equivalents**	216,132	—	—
<b>TOTAL INVESTMENT MANAGEMENT FEES</b>	<b>\$ 9,042,343</b>	<b>\$ 25,582</b>	<b>28</b>
<b>INVESTMENT SERVICE FEES</b>			
Custodial Fees	\$ 9,042,343	\$ 650	1
Investment Advisor Fees — External	9,042,343	750	1
Investment Professional Fees	9,042,343	207	1
Investment Administrative Expenses — Internal	9,042,343	669	1
<b>TOTAL INVESTMENT MANAGEMENT AND SERVICE FEES</b>	<b>\$ 9,042,343</b>	<b>\$ 27,858</b>	<b>31</b>

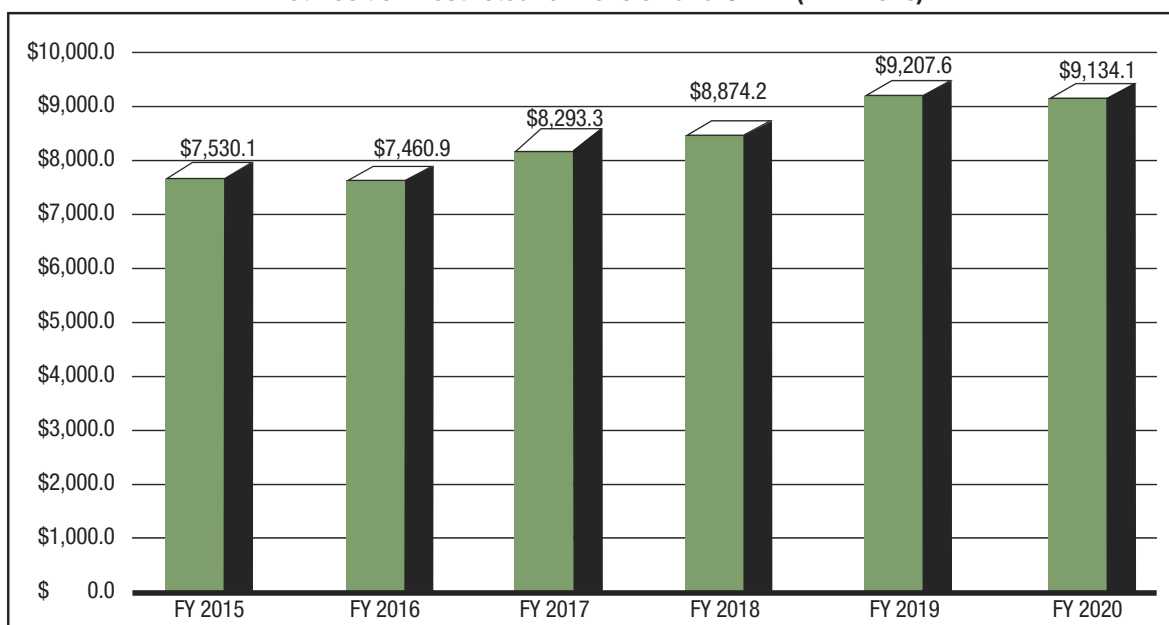
\*The custodian records all transactions on a net of fee basis.

**SCHEDULE OF BROKERAGE COMMISSIONS PAID**

Brokerage Firm	YEAR ENDED JUNE 30, 2020		
	Number of Shares Traded (in thousands)	Total Commissions (in thousands)	Commissions Per Share
J.P. Morgan	22,485	\$ 143	0.01
Goldman Sachs & Company	8,215	131	0.02
Merrill Lynch & Company Inc.	10,292	99	0.01
Credit Suisse	9,553	96	0.01
Morgan Stanley & Company Inc.	4,838	66	0.01
Liquidnet	3,874	64	0.02
UBS Securities/Warburg	6,321	62	0.01
Barclay's Capital Inc.	4,406	60	0.01
Instinet, Inc.	4,367	57	0.01
Bernstein Sanford C & Co, New York	4,323	51	0.01
Cowen and Company LLC	2,916	50	0.02
Jefferies & Company, Inc.	2,722	48	0.02
Citigroup Global Markets Inc.	3,410	47	0.01
Baird, Robert W & Co Inc.	1,060	33	0.03
Pershing Securities LTD	1,297	31	0.02
Electronic Brokerage Systems	1,384	27	0.02
BTIG LLC	1,086	25	0.02
Wells Fargo Securities, LLC.	856	20	0.02
Keefe Bruyette + Woods Inc.	810	18	0.02
All Others (124 not listed separately)	31,562	501	0.02
<b>TOTAL BROKERAGE COMMISSIONS PAID</b>	<b>125,777</b>	<b>\$ 1,629</b>	<b>0.01</b>

Commission detail is not included in the schedule above for the commingled funds in which NHRS invests.

**Net Position Restricted for Pension and OPEB (in millions)**



**SUMMARY OF INVESTMENTS**

TYPE OF INVESTMENT	June 30, 2020	
	Fair Value (in millions)	Percent of Total Fair Value
<b>FIXED INCOME</b>		
Collateralized/Asset Backed Securities	\$ 197.0	2.2%
Corporate Bonds	708.2	8.0%
Government and Agency Bonds	357.0	4.0%
Blackrock Strategic Income Opportunities	241.5	2.7%
Fidelity	358.6	4.1%
Manulife	204.5	2.3%
<b>TOTAL FIXED INCOME</b>	<b>\$2,066.8</b>	<b>23.4%</b>
<b>EQUITY</b>		
Consumer Discretionary	\$ 442.4	5.0%
Consumer Staples	201.4	2.3%
Energy	86.2	1.0%
Financial Services	629.7	7.1%
Health Care	532.2	6.0%
Producer Durables	395.7	4.5%
Information Technology	723.4	8.2%
Materials	211.4	2.4%
Utilities	148.9	1.7%
Ishares Russell 2000 ETF	7.4	0.1%
LSV International Value Fund	254.9	2.9%
Neuberger Berman Emerging Markets Equity Fund	173.2	2.0%
Segall Bryant & Hamill Int'l Small Cap	101.9	1.2%
Wellington Emerging Markets Local Equity Fund	158.7	1.8%
<b>TOTAL EQUITY</b>	<b>\$4,067.4</b>	<b>46.1%</b>
<b>OTHER INVESTMENTS</b>		
Alternative Investments	\$1,724.6	19.5%
Real Estate	967.4	11.0%
<b>TOTAL INVESTMENTS</b>	<b>\$8,826.2</b>	<b>100.0%</b>

## **Appendix B**

Gabriel Roeder Smith & Company Actuarial Opinion Letter

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October 16, 2020

Board of Trustees  
New Hampshire Retirement System  
54 Regional Drive  
Concord, New Hampshire 03301-8509

**Re: Reasonableness of the Assumed Rate of Return**

Dear Board Members:

The purpose of this letter is to provide our actuarial opinion regarding the reasonableness of the assumed rate of return for the New Hampshire Retirement System and to address any differences between the assumed rate of return and the expected rate of return under the System's investment policy statement as required under New Hampshire statute.

**Background:**

The requirement under New Hampshire statute is as follows:

**RSA 100-A:15 VII.**

- (c) An annual investment policy statement which shall incorporate the following:
  - (1) A clear statement of investment objectives including the adoption of a reasonable and sound expected rate of return the retirement system is attempting to earn. The expected rate of return utilized for the statement of investment objectives shall bear some reasonable relationship to the assumed rate of return set by the trustees for the biennial actuarial calculation. *The retirement system's actuaries shall issue a written opinion in regard to the reasonableness of the assumed rate of return that shall address any difference between the assumed rate of return and the expected rate of return.*

We understand the current asset allocation targets and ranges are based on asset liability modeling and asset allocation recommendations from New England Pension Consultants (NEPC) adopted by the Board of Trustees in September 2012. We further understand that based on their 2020 capital market assumptions, NEPC has indicated the following expectations for NHRS' current asset allocation:

- During the next 10-year period:
  - The expected rate of return is 6.02%;
  - The standard deviation is 12.95%; and
  - The implicit price inflation rate is 2.3%.
  
- During the next 30-year period:
  - The expected rate of return is 7.18%; and
  - The implicit price inflation rate is 2.5%.

In determining the assumed rate of return for the actuarial valuation, we abide by Actuarial Standard of Practice (ASOP) No. 27, Selection of Economic Assumptions for Measuring Pension Obligations, as adopted by the Actuarial Standards Board.

Under ASOP No. 27, we determine a reasonable assumption for each economic assumption. The reasonable assumption must be appropriate for the purpose of the measurement, reflect the actuary's professional judgement, take into account relevant historical and current demographic data, reflect the actuary's estimate of future experience or the estimates inherent in the market data and have no significant bias. For the investment return assumption, we use the building block method which determines the assumed rate of return as the sum of inflation and real return assumption. For actuarial valuation purposes, we focus more on the long term, which is similar to NEPC's 30-year period.

**Actuarial Opinion:**

For the June 30, 2020 valuation, the actuarial assumed rate of return is made up of a price inflation assumption of 2.0% and a real rate of return assumption of 4.75% for a total of 6.75% per year, net of investment expenses. This assumption was adopted by the Board to be effective in the June 30, 2019 valuation based on the 2015-2019 Experience Study.

Based on our independent analysis using NHRS' target asset allocation and current capital market assumptions from 14 nationally recognized investment consultants, we have calculated a geometric rate of return of 5.84% over a 10-year horizon and 6.74% over a 20-30-year horizon if we use 6 consultants' 20-30-year horizon expectations. The current NHRS net investment rate assumption of 6.75% is reasonable when compared to our 5.84% - 6.74% and NEPC's 6.02% - 7.18% current estimates for the expected rate of return.





Differences between the expected rate of return in the System's Investment Policy and the actuarial assumed rate of return are attributable in part to the different objectives of the measurement. Key differences are:

- The Investment Policy focuses on asset allocation decisions and establishes benchmarks for manager performance. The assumed rate of return is a long-term assumption for funding policy.
- The Investment Horizon of 10 years in the Investment Policy is based on a shorter time frame than used to determine the assumed rate of return which can be 20-30 years or longer. When focusing on the 20-30-year time horizon, the policy and the actuarial assumption produce similar expected returns.

Given the purpose and use of the different assumptions, different results are not uncommon. Under the current actuarial standard of practice, the current assumed rate of return for valuation purposes is reasonable and, therefore, meets the requirements of those standards.

**Governmental Accounting Standards Board (GASB) Statement No. 67:**

The statutory funding requirements of RSA 100-A:16 and the NHRS' Actuarial Funding Policy call for the NHRS pension unfunded actuarial accrued liability as of June 30, 2017 to be amortized through 2039. Each subsequent change in liability as calculated in odd-numbered years shall be separately amortized over a fixed period of no longer than 20 years. Based on this, the GASB discount rate will be the assumed rate of investment return of 6.75%.

David T. Kausch and Heidi G. Barry are independent of the plan sponsor and are Members of the American Academy of Actuaries (MAAA) and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.

Respectfully submitted,



David T. Kausch, FSA, EA, FCA, MAAA, PhD



Heidi G. Barry, ASA, FCA, MAAA

DTK/HGB:sc



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# **Appendix C**

Investment Manual

NHRS Investment Philosophy

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# **NEW HAMPSHIRE RETIREMENT SYSTEM**



# **NHRS**

New Hampshire Retirement System

## **Investment Manual**

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- **Proxy Voting Policy**
- **Securities Lending Policy**
- **Securities Litigation Policy**
- **Private Markets Disclosure Policy**

## **Section II**

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## **Section III**

- **Independent Investment Committee Charter**

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  - Non-U.S. Equity
  - Fixed Income
  - Real Estate
  - Alternative Investments

# **SECTION I**

# **Investment Policy**



<p style="text-align: center;"><b>New Hampshire Retirement System Investment Policy Amended by NHRS Board of Trustees on December 8, 2020</b></p>
---

**I. Introduction to the Investment Policy**

The purpose of this Investment Policy is to:

- A. Fulfill the Board's and IIC's statutory duty to oversee the investments of NHRS in accordance with the basic fiduciary responsibilities. These duties include:
  - Managing the fund with the care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like capacity and familiar with these matters would use in the conduct of an enterprise of a like character with like objectives.
  - Making all decisions solely in the interest of, and for the exclusive purpose of providing benefits to the members, retirees, and their beneficiaries.
  - Defraying reasonable administrative expenses.
- B. Set forth the investment policies the Board and IIC judge to be appropriate, prudent and, in consideration of the Systems' needs, to comply with current laws and to direct the investment of the System's assets.
- C. Ensure appropriate flexibility within the investment process to allow for the System to participate in prudent investment opportunities while also establishing risk parameters within which the portfolio will operate.
- D. Establish criteria to evaluate the System's investment performance.
- E. Communicate investment policies, objectives, asset class guidelines, and performance criteria to staff, external investment managers/advisors, consultants, custodians, and all other interested parties.
- F. Serve as a review document to guide ongoing oversight of the System's investments for compliance with the laws of New Hampshire.

## II. Responsible Parties and Their Duties

Key parties that participate in the investment decision-making and oversight process for NHRS include the:

- Board of Trustees
- Independent Investment Committee (IIC)
- Investment Staff
- Investment Consultants
- Investment Managers
- Custodian Bank
- Proxy Voting Service Provider

### **Board of Trustees:**

The Board sets investment policy in accordance with applicable State and Federal laws, hires the investment consultant(s), and sets policy for establishing and modifying investment objectives. The Board also has responsibility to review quarterly and annual reports from the IIC.

### **Independent Investment Committee:**

The IIC prepares for the Board's review and approval an investment policy statement, including investment objectives, an expected rate of return the System is attempting to earn, asset allocation targets and ranges, and identification of appropriate benchmarks. The IIC has the full power to hold, purchase, sell, assign, transfer, and dispose of any securities and investments, as well as the proceeds of such investments, in accordance with the policy set by the Board. The IIC has the responsibility to establish asset class guidelines and for selecting, monitoring, and terminating investment managers. The IIC is responsible for reporting to the Board on a quarterly and annual basis as directed by the statute.

### **Investment Staff:**

The NHRS investment staff, led by the Director of Investments, is responsible for implementation of the investment decisions made by the Board of Trustees and/or the IIC. In general, the responsibilities of the investment staff include:

- Ensuring the asset allocation of the Fund is implemented in accordance with the policy approved by the Board, including rebalancing as necessary in accordance with the investment policy
- Monitoring policy and statutory compliance of the portfolio
- Assisting the IIC in developing investment policy recommendations to present to the Board for approval
- Monitoring investment managers and performing due diligence on new investment opportunities or managers as directed by the IIC
- Coordinating work with the investment consultant or any other investment-related service provider selected by the Board
- Conducting special research or analysis as directed by the Board, IIC, or Director of Investments

- Ensuring the Board and IIC receive appropriate reporting regarding the investment portfolio

**Investment Consultant:**

The investment consultant will perform those services as described in its contract. The investment consultant is hired by the Board, and is expected to work cooperatively and collaboratively with the Board, the IIC, as well as the investment staff. In general, the investment consultant's responsibilities include:

- Providing advice on asset allocation
- Assisting the Board, IIC, and staff with decision-making
- Providing reviews of investment policy, asset class structure, and investment managers
- Calculating performance
- Reporting and analyzing performance of the total portfolio, asset classes, and individual investment managers
- Performing research as needed
- Providing investment education to the Board, IIC and staff as requested
- Reports quarterly to the Board on investment consultant contract fulfillment actions
- Reports to the Board quarterly on recommendations made to the IIC and the status of their recommendations.

**Investment Managers:**

The investment managers hired by the IIC have the duty to manage the assets allocated to them as fiduciaries and in accordance with the Investment Management Guidelines established for their accounts and their individual contracts. Investment managers must execute all transactions for the benefit of NHRS and update NHRS regarding any major changes to the portfolio management team, investment strategy, portfolio structure, ownership, organizational structure, or other changes relevant to the account.

**Custodian Bank:**

The duties of the custodian bank are set forth by their contract with NHRS. In general, the custodian's responsibilities include:

- Safekeeping of NHRS assets
- Settling investment transactions and collecting income
- Preparing monthly and year-end accounting statements
- Serving as the "book of record" for investment transactions and valuations
- Properly recording and reporting investment activities, transactions, income, and valuations

When selecting the custodian bank the IIC will use the current industry standards appropriate for evaluating the qualifications of a custodian bank.

### **Proxy Voting Service Provider:**

The duties of the proxy voting service provider are set forth by their contract with NHRS. In general, those responsibilities include:

- Voting proxies on behalf of NHRS per the Proxy Voting Policy
- Providing research reports
- Preparing monthly and year-end summaries
- Alert staff to issues not covered by the NHRS Proxy Voting Policy
- Recommending revisions to the NHRS Proxy Voting Policy
- Assisting in revising the NHRS Proxy Voting Policy

The Accountability Matrix adopted by the Board on April 10, 2012 and incorporated herein by reference further summarizes key responsibilities and duties of the Board; IIC; Director of Investments and Investment Staff; Internal Legal Staff; Investment Consultant(s); and Actuary. Additional responsibilities are also detailed in the Board's governance manual, contracts, and NHRS's position descriptions for staff.

### **III. Investment Objectives**

In light of the purpose of the System, the Board, based on the recommendation of the IIC, has adopted the following investment objectives:

- Efficiently allocate and manage the assets of the Fund so that beneficiaries will receive promised benefits.
- Manage the portfolio on a total return basis, which recognizes the importance of the preservation of capital, as well as the fact that reasonable and varying degrees of investment risk are generally rewarded over the long-term.
- Work towards achieving and then maintaining a fully funded pension status.
- Exceed the Policy benchmark on a net of fees basis over a full market cycle.

### **IV. Risk Management**

The Board's role in risk management is to approve the asset allocation targets and ranges for each asset class of the Fund. The Board recognizes that in order for the Fund to achieve its investment objectives, a reasonable level of risk must be present within the investment portfolio. Risk is referenced both in terms of absolute risk (the risk of loss) and volatility (the variability of returns). The Board will seek to minimize the risk of loss by approving an asset allocation that includes an appropriate level of diversification of Fund assets. The Board will periodically review the level of risk as represented by the asset allocation targets and ranges within the Fund and each asset class to ensure it is reasonable and within its tolerance for risk. Equity volatility (risk) is among the highest for any asset class. Other risks that the Board will consider when approving investment policy include benchmark risk, timing risk, market risk, credit risk, currency risk, liquidity risk, and any other risk it determines is relevant.

The Board acknowledges that the IIC also has a responsibility to consider risk when recommending asset allocation, and to monitor risks within the portfolio. The IIC will consider market risk, credit risk, currency risk, liquidity risk, and any other risk it believes to be relevant when it determines an asset allocation to recommend to the Board. The IIC is responsible for risk management at the manager level as it decides upon the number and types of managers to utilize within each asset class portfolio. When making decisions, the IIC will consider idiosyncratic risk (firm specific risk), benchmark risk, timing risk, market risk, credit risk, liquidity risk, interest rate risk, operational risk, concentration risk or any other risk it determines relevant as it makes its decisions.

The investment managers are responsible for risk management within the portfolio they manage on behalf of NHRS. Investment managers will consider those risks most relevant to their portfolio, which could include market risk, credit risk, currency risk, liquidity risk, inflation risk, geo-political risk, political risk, interest rate risk, and operational risk.

Descriptions of major types of risk follow:

- A. Credit Risk: The risk of default of a party owing cash to the System as the result of a transaction. These parties may include, but are not limited to, the counterparty and the issuer.
- B. Counterparty risk (default risk): The risk to each party of a contract that the counterparty will not live up to its contractual obligations. Counterparty risk is a risk to both parties and should be considered when evaluating a contract.
- C. Liquidity Risk: There are two types of liquidity risk: market liquidity risk and funding liquidity risk. Market liquidity risk is the risk of being unable to purchase or liquidate a security quickly enough (or in requisite quantities) at a fair price. Market liquidity risk differs from market risk (defined below). Market liquidity risk only reflects realized price changes, while market risk reflects both realized and unrealized price changes. Funding liquidity risk relates to the relative ease of the organization to meet its cash flow needs as they come due.
- D. Market Risk: The risk of unexpected change in market price (amount or direction). Price changes in securities can result from movements in equity markets, interest rates, and currency exchange rates, in addition to various other factors. Market risk incorporates both realized and unrealized price changes.
- E. Systemic Risk: Risk that affects an entire financial market or system, and not just specific asset classes. Systemic risk cannot be avoided through diversification.
- F. Absolute Risk: Risk of loss of capital.
- G. Volatility Risk: The variability of returns often used as a proxy for risk.

- H. Operational Risk: The risk of inadequate controls against fraud, incorrect market valuation, failure to record or settle a deal, settlement with the wrong counterparty, failure to collect amounts due, failure of the computer system, or enforceability of contracts. The implications of operational risk include both financial loss and loss of reputation.
- I. Geo-Political Risk: The risk of the occurrence of an unanticipated international and/or domestic incident such as war, assassination, terrorism or energy shock that adversely affects global and capital markets resulting in the re-pricing of securities.
- J. Political Risk: The risk of nationalization or other unfavorable government action.
- K. Idiosyncratic Risk: Firm specific risk or the risk of the change in price of a security due to the unique circumstances of that security.
- L. Benchmark Risk: The risk that an investment may outperform or underperform its target return.
- M. Interest rate risk: The risk of an investment losing value (such as bonds) when interest rates rise. Rising interest rates increase the cost of doing business for most companies and can also, thereby, raise market risk.
- N. Inflation risk: The risk that rising inflation may erode the value of income and/or assets.
- O. Currency risk: The risk that currency movements will negatively impact an investment's return. If the value of the U.S. dollar rises in relation to other currencies, the value of foreign stock shares translates into a smaller number of U.S. dollars for investors who hold those shares. Put another way, a "strong" dollar can buy more foreign goods, including foreign stocks. Conversely, if the dollar falls in relation to other currencies, the value of foreign stock shares rises, as more "weak" dollars are needed to buy a given amount of foreign stock.
- P. Timing risk: The risk that the market will not move in the anticipated direction when an investment is made (upward for long positions, and downward for short positions).
- Q. Concentration risk: The risk that the System does not appropriately and effectively diversify the assets within an asset class. An example of concentration risk is having too large a percentage of System assets with a single investment manager.

## V. Asset Allocation

The Board approves the asset allocation targets and ranges for each asset class of the Fund (the allowable asset classes and the distribution of assets among those asset classes) based on recommendations from the IIC. As fiduciaries, the Board and the IIC have a duty to diversify the investments of the System to reduce risk, while maximizing the investment return. Approximately ninety percent (90%) of the long-term total return stems from the asset allocation decision. The remaining ten percent (10%) is expected to be attributable to either the selection of individual assets or timing. Accordingly, asset allocation is one of the most important fiduciary decisions. The Board adopts an asset allocation based on recommendations from the IIC, which relies upon the advice from the Director of Investments and the investment consultant to formulate its recommendations to the Board.

The asset allocation approved by the Board will reflect the results of an Asset Liability Study performed at least once in every five year period, or more often, as recommended by the IIC, System staff, and investment consultant.

The Asset Liability Study identifies a mix of investments, by asset class, which is expected to produce the return required to meet future funding requirements at the lowest level of risk, given all of the assumptions made and employing a mean-variance optimization model.

The asset allocation chart, which follows, lists the approved asset classes in the portfolio and the target percentages and ranges, at market value, of the System's assets to be invested in each. Due to fluctuations of market values, positioning within a specified range is acceptable and constitutes compliance with the policy. Based on the approved asset allocation, recommendations from the System's consulting actuary, IIC, investment managers and staff, the Board adopts an assumed rate of return, which is subject to periodic change and which is the long-term return that can be expected from this combination of assets. As of June 9, 2020, the assumed rate of return was 6.75%.

<b>Asset Class</b>	<b>Target Allocation</b>	<b>Allocation Range</b>
Domestic Equity	30%	20 – 40%
Non-U.S. Equity	20%	15 – 25%
Fixed Income	25%	20 – 30%
Real Estate	10%	5 – 20%
Alternative Investments	15%	5 – 25%

The Board has approved the use of the above listed asset classes for the following reasons:

Domestic Equity: The allocation to domestic equity serves to expose the fund to the largest economy of the world. An allocation to domestic equity should allow for return enhancement and principal appreciation.

Non-U.S. Equity: The allocation to non-U.S. equity, both developed and emerging markets, will serve as potential for return enhancement and principal appreciation. A secondary consideration is the diversification it provides from the U.S. market. While the U.S. and non-U.S. markets are considerably correlated, they are not perfectly correlated. Assets that are not perfectly correlated serve to reduce volatility over the long term.

Fixed Income: The investment in fixed income will serve to reduce volatility experienced in the equity markets, as well as offer an opportunity for return enhancement by investment in selected securities (for example, investment grade corporates and high yield). A portion of the fixed income allocation is expected to be invested in Treasury or other government-related issues, which will serve to reduce risk within the portfolio.

Real Estate: The investment in real estate will serve as an inflation hedge, return enhancement opportunity, income generator, and diversification source and will include investments within core, value-added, and opportunistic opportunities.

Alternative Investments: Alternative investments are nontraditional investments, not covered by another investment class. In general, alternative investments are incorporated into the NHRS asset allocation to enhance the portfolio's risk-adjusted return (private equity/private debt) or to diversify volatility (opportunistic strategies). While the risk associated with these types of investments is higher than that of other asset classes, the expected return is also higher. Strategies the IIC may use in private equity/private debt may include, but are not limited to: Buyouts; Distressed Opportunities; Energy-focused; Growth Equity; Infrastructure; Mezzanine; Direct Lending; Secondaries; Special Situations; and Venture Capital. Strategies the IIC may use for opportunistic strategies include: Credit Linked; Equity Linked; Event Driven; Trading; and Multi-Strategy.

## **VI. Rebalancing**

The actual asset class allocation of the Fund will be continuously reviewed by staff relative to the asset class policy targets. Market movements or cash flow requirements may require the actual allocations in the portfolio to deviate from the target allocations. Staff shall seek to maintain the Fund's actual asset allocation within allocation ranges at all times. When rebalancing is required, the staff will develop a rebalancing plan that, when possible, minimizes transaction costs. The plan will identify whether the assets will be rebalanced to a point within the allowable range, or to the allocation target. Staff will give due consideration to market environments, costs and risks of implementation, potential impacts on manager-level performance, and other relevant factors. The staff will report to the IIC and the Board regarding rebalancing activities that have occurred.



## VII. Equity Investment in Another Entity

When the System makes an equity investment in another entity, the underlying assets of such other entity will be deemed “assets” of the System for purposes of Section 100-A15, I-b of the RSA except with respect to investments in the following entities:

- (a) Publicly-offered securities
- (b) An investment company registered under the Investment Company Act of 1940
- (c) A Company primarily engaged, either directly or through majority-owned subsidiaries, in the production and/or sale of goods and/or services (other than the investment of capital) (“Operating Company”)
- (d) A private equity fund whose primary objective is to invest in Operating Companies in which it has contractual rights to influence company management
- (e) A private investment fund whose primary objective is to invest in real estate with respect to which it has the right to participate directly in the development or management
- (f) A government mortgage pool guaranteed by the United States or an agency or instrumentality thereof
- (g) An investment fund or entity in which:
  - (1) (i) private U.S. employee benefit plans subject to Part 4 of Subtitle B of Title 1 of the Employee Retirement Income Security Act of 1974 (“ERISA Plans”), (ii) plans subject to Section 4975 of the Internal Revenue Code (“4975 Plans”), and (iii) other entities deemed under ERISA to hold assets of such ERISA Plans and 4975 Plans (together with ERISA Plans and 4975 Plans, “Benefit Plan Investors”), hold less than 25% of any class of equity interests and
  - (2) the System holds less than 25% of the total equity interests
- (h) An insurance company general account to the extent that the non-guaranteed policy portion of such account is less than 25% held by Benefit Plan Investors and less than 25% held by the System.

It is the intention of the Board that in settling any ambiguity regarding this section of policy, the Board shall look to available guidance under ERISA to settle such ambiguity.

## VIII. Liquidity

Currently, each fiscal year, the member benefit payments paid by the System exceed the employer contributions received by the System. As a result, maintaining appropriate liquidity is critical to the System's operations and the System's ability to meet its financial obligations. The staff will be responsible for ensuring the System maintains the appropriate liquidity for the payment of member benefits, fund expenses and capital calls from its General Partners.

## IX. Active and Passive Management

The IIC may implement the Board's approved asset allocation through the use of both passive and active management. The use of active and passive management is detailed in the guidelines for each asset class. The goal of passive management is to gain diversified exposure to the desired asset class while incurring minimal expense and seeking a performance return comparable to the asset class benchmark. The goal of active management is to exceed the performance of the appropriate index on a net-of-fees basis at a commensurate level of risk over a full market cycle.

## X. Benchmarks

The following benchmarks represent the standards of measurement to be used for the various investment asset classes of the New Hampshire Retirement System as determined by the Board and IIC.

<b>Asset Class</b>	<b>Benchmark</b>
Domestic Equity	S&P 500 Index
Non-U.S Equity	MSCI All Country World Ex-U.S. Index
Fixed Income	Bloomberg Barclays Capital U.S. Universal Bond Index
Real Estate	NCREIF NFI-ODCE Index (net of fees)
Alternative Investments:	
Private Equity	S&P 500 Index + 3%
Private Debt	S&P/LSTA U.S. Leveraged Loan 100 Index
Total Fund	Total Fund Custom Benchmark

The Total Fund Custom Benchmark is a weighted average return comprised of the respective asset class benchmarks in the same proportion as the target asset allocation.

As performance results may vary under different economic conditions and market cycles, an effective period for measuring performance would span three to five years or more. Performance returns are expected to meet or exceed the relevant benchmark on a net-of-fees basis over time.

The IIC has responsibility for identifying appropriate benchmarks for each investment in the Fund.

Definitions of the benchmarks are listed below:

- A. The S&P 500 Stock Index measures the total return of 500 large capitalization U.S. common stocks. The index tracks leading industries and is capitalization-weighted.
- B. The MSCI ACWI (All Country World Index) is a free-float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets. The term “free float” refers to the number of shares of stock publicly owned and available for trading.
- C. The Bloomberg Barclays Capital U.S. Universal Index represents the union of Bloomberg Barclays Capital’s U.S. Aggregate Index (see below), U.S. Corporate High-Yield, Investment Grade 144A Index, Eurodollar Index, U.S. Emerging Markets Index, and the non-ERISA eligible portion of the CMBS Index. The index covers USD-denominated, taxable bonds that are rated either investment grade or below investment grade.
- D. The Bloomberg Barclays Capital U.S. Aggregate Index is an unmanaged, market-value-weighted index of taxable investment-grade fixed-rate debt issues, including government, corporate, asset-backed and mortgage-backed securities, with maturities of one year or more.
- E. The National Council of Real Estate Investment Fiduciaries (NCREIF) Fund Index Open-End Diversified Core (NFI-ODCE) is a composite comprised of primarily Core open-end funds widely used by institutional investors for exposure to domestic private market real estate. An open-end fund is a large pool of properties held in a commingled fund structure where investors have redemption rights (typically quarterly right to make capital deposits or withdrawals). Because of quarterly purchase or redemption of fund shares, open-end funds have some of the best valuation disciplines in private market real estate. The funds report performance quarterly to NCREIF. Nearly all open-end funds are designed to be perpetual life vehicles, with many having history dating back to the 1970s.
- F. The S&P/LSTA U.S. Leveraged Loan 100 Index (LL100) is a daily tradable index for the U.S. market that seeks to mirror the market-weighted performance of the largest institutional leverage loans. The constituents are drawn from a

universe of syndicated leveraged loans representing over 90% of the leveraged loan market.

## **XI. Reporting to the Board**

Pursuant to RSA 100-A:15, II-a, the IIC will report to the Board at least quarterly on the management, investment, and reinvestment activities of the IIC, and may delegate such reporting as it deems appropriate. The quarterly report will include:

- A report on the investment performance of the assets of the System
- Changes, if any, in the investment managers of the System
- Changes, if any, in the investment guidelines for each of the asset classes
- Rebalancing activities, if any

Pursuant to RSA 100-A:15, VII, the IIC will prepare, for Board approval, a comprehensive annual investment report for the Board. The annual report will include:

- A description of the IIC's philosophy for investing the assets of the System
- An analysis of the return on investment, by category
- An annual investment policy statement
- Any suggested changes in legislation which the Board may seek in order to better serve the members of the system

After Board approval, the comprehensive annual investment report is submitted to the president of the senate, the speaker of the house, and the governor.

The investment staff, investment consultant(s), custodian bank, and other parties will also provide reporting to the Board as requested or needed.

## **XII. Manager Selection, Monitoring, and Termination**

The IIC, with the assistance of the investment staff and the investment consultant, will establish a process by which to select investment managers. Criteria for each manager search will be tailored to the search underway and NHRS' specific needs and requirements. Examples of criteria include:

- Organizational stability
- Investment staff, experience and tenure
- Investment process
- Ownership
- Fees
- Performance

Manager searches will be conducted in a fair and transparent manner. During a manager search, a "no contact policy" will be in effect. During this time, only staff designated by the Director of Investments will have any contact with potential candidates. Trustees, IIC members, and other staff members will refrain from discussing the search with candidate firms or potential candidate firms. This policy does not preclude existing managers from carrying out their normal business requirements with NHRS.

The IIC has delegated selected manager monitoring efforts to the investment staff and the investment consultant. Any significant changes to a manager's investment philosophy, fees, personnel, ownership or organizational structure will be summarized and reported to the IIC. The IIC will receive quarterly and annual reporting regarding the performance of the investment managers within the fund.

The IIC has the right to terminate any investment manager at any time. Grounds for termination may include, but are not limited to:

- Changes in asset allocation that require re-structuring of the portfolio
- Failure to comply with investment management agreements
- Underperformance
- Significant process, organizational, ownership or personnel changes
- Unethical behavior
- Loss of confidence in the organization
- Unresponsiveness or inability to satisfy reporting requests

### **XIII. Private Equity Fund Advisory Board/Committee Participation**

The primary purpose of a private equity fund advisory board/committee is to (1) provide "checks and balances" on the general partner's power and authority to operate the fund; and (2) act as a "sounding board" for matters where the interests of all the fund's partners may not be aligned. The System has determined that the benefits of staff participating on advisory boards/committees far outweigh the risks or potential risks of not participating on advisory boards/committees. As a result, it is appropriate for System staff to represent the System as a member of an advisory board/committee, with the approval of the IIC and provided that there are appropriate protections for such members (e.g., with respect to fiduciary duty/standard of care, indemnification, confidentiality, etc.).

### **XIV. Use of Derivatives**

Derivatives may only be used to modify risk/return characteristics of the portfolio, implement asset allocation changes in a cost-effective manner, or reduce transaction costs or taxes. Derivatives may not be used for speculation or leverage (borrowing).

Contracts with separate account managers will identify the types of derivatives that may be used, consistent with this Manual and prudent discretion. Managers must notify the Director of Investments of modifications in the types of derivatives used and obtain the Director of Investments' approval of such modifications. The System's Non-U.S. Equity managers generally have authorization for broader use of derivatives; however, their actions will be monitored for excessive risk.

Investments in commingled funds are open to other investors; therefore, it is not possible for the System to insist that the managers of such funds abide by System policy regarding the use of derivatives; however, their actions will be monitored for excessive risk. The Director of Investments will monitor a manager's use of derivatives on an ongoing basis to determine whether continued investment in a fund is prudent.

## **XV. Prohibited Transactions**

The following transactions will be prohibited unless stated otherwise in the investment manager guidelines:

- "Prohibited transactions" as defined under the Employee Retirement Income Security Act of 1974 (ERISA).
- Transactions that involve a broker acting as a "principal", where such broker is also the investment manager who is making the transaction.
- Any or all investment activities forbidden by SEC or other applicable governing bodies.

The exposure for options, when permitted by contract, must be based on an appropriate options pricing model.

## **XVI. Review of Investment Policy**

The IIC will review the investment policy at least annually to ensure it remains appropriate and to determine whether any modifications are needed and make a recommendation to the Board for changes, if any, to the investment policy. The Board will review the recommendations of the IIC regarding the investment policy and review the policy at least annually.

## **XVII. Glossary of Common Investment Terms**

Investment in any particular instrument or security remains subject to applicable law and circumstances then prevailing. Notwithstanding, the most common investments are cited below:

- A. Alternative Investments are non traditional investments, not covered by another investment class (e.g. private equity/private debt and opportunistic strategies)
- B. American Depositary Receipts (ADRs) are receipts for the shares of a foreign-based corporation held in the vault of a U.S. bank and entitling the shareholder to all dividends and capital gains. These are traded on various U.S.-based exchanges and are available for hundreds of stocks from numerous countries.
- C. Commercial Mortgage Backed Securities (CMBS) are multi-class bonds backed by pools of commercial mortgages.
- D. Commercial Mortgage Lending investments are notes and bonds secured by a mortgage or deed of trust providing first lien on real estate.

- E. Derivatives are financial instruments such as forwards, futures, options, or other instruments whose values are “derived” from another financial instrument.
- F. Domestic Equity Securities for System purposes typically consist of corporate common stock. These stocks must be registered on a national securities exchange or must be otherwise registered as provided in the Securities Exchange Act of 1934 as amended, with price quotations furnished through a nationwide automated quotations system approved by the National Association of Securities Dealers, Inc. (NASD). Domestic Equity Securities also include stock in corporate real estate investment trusts (REITs), which are traded on a national exchange and acquired as part of an index fund or by one of the System’s domestic equity managers.
- G. Domestic Fixed Income Securities are U.S. Treasury or Government agency obligations; equipment trust certificates; corporate, industrial, or utility bonds; U.S. dollar denominated Euro or Yankee bonds, including Canadian obligations payable in U.S. dollars; residential and commercial mortgage-backed securities; and pass-through certificates. For System purposes, Domestic Fixed Income Securities primarily consist of instruments with maturities in excess of twelve (12) months at time of purchase.
- H. Emerging Market Equities are common or preferred stocks and investment shares which are registered on exchanges outside the U.S. Emerging market countries are the developing international countries which have a relatively low per capita Gross National Product. There is wide variety of economic, regulatory, and market development among the emerging countries.
- I. Equity Real Estate Investments are any investments in real property, either made directly or through the use of pooled vehicles such as limited partnerships, open or closed-end commingled funds, Real Estate Investment Trusts (REITs) including publicly traded REIT securities, and Real Estate Operating Companies (REOCs).
- J. Non-U.S. Equity Securities are common or preferred corporate stocks and investment trust shares. Only stocks registered on recognized exchanges outside the U.S. are to be considered Non-U.S. Equity Securities.
- K. Real Estate Mezzanine Funds are investments in funds or partnerships whose portfolios consist of junior loans secured by real estate or partnership interests in real estate ownership.
- L. Repurchase Agreements are agreements between a seller and a buyer, whereby the seller agrees to repurchase the securities at an agreed upon price and, usually, at a stated time.

- M. Securities Lending occurs when a lender transfers a security to a borrower for cash or non-cash collateral pursuant to an agreement to return the collateral for an identical security in the future.
- N. Short Term Investments (Cash Equivalents) include, but are not limited to, interest bearing or discount instruments such as money market funds; U.S. Treasury Bills; corporate-issued commercial paper; bank-issued Certificates of Deposit; bankers' acceptances; and fully collateralized repurchase agreements. For System purposes, short-term investments consist primarily of instruments maturing in twelve (12) months or less at time of purchase.



# **Proxy Voting Policy**

# New Hampshire Retirement System Proxy Voting Policy

## INTRODUCTION

A proxy is a written power of attorney given by a shareholder of a corporation, authorizing a specific vote on the shareholder's behalf at corporate meetings. A proxy will normally pertain to election of members of the corporation's board of directors, or to various resolutions submitted for shareholder approval. The System's Proxy Voting Policy has been established to protect the System's long-term investment interests and to promote responsible corporate policies and activities which enhance a corporation's financial prospects.

## U.S. PROXY VOTING GUIDELINES

### I. OPERATIONAL ITEMS

#### **Adjourn Meeting**

Generally vote **against** proposals to provide management with the authority to adjourn an annual or special meeting absent compelling reasons to support the proposal.

Vote **for** adjournment proposals that relate specifically to soliciting votes for a merger or transaction if supporting that merger or transaction. Vote **against** such proposals if the wording is too vague or if the proposal includes "other business."

#### **Amend Quorum Requirements**

Vote **against** proposals to reduce quorum requirements for shareholder meetings below a majority of the shares outstanding unless there are compelling reasons to support the proposal.

#### **Amend Minor Bylaws**

Generally, vote **for** proposals to make bylaw or charter changes that are of a housekeeping nature (updates or corrections) unless the proposed changes are believed to be detrimental to shareholder value.

#### **Change Company Name**

Generally, vote **for** proposals to change company name unless the reasons behind the change and necessity of the change have not been clearly provided by the company.

## **Change Date, Time, or Location of Annual Meeting**

Generally, vote **for** management proposals to rotate the time or place of annual meetings unless the proposed change is unreasonable and motivation is unclear.

Generally, vote **against** shareholder proposals to rotate the time or place of annual meetings unless the current scheduling or location is unreasonable and change is determined to be in the best interests of the company and its shareholders.

## **Ratifying Auditors**

Generally, vote **for** proposals to ratify auditors unless:

- More than 20 percent of total fees paid to the auditors are attributable to nonaudit, but not including, SEC-related work. Nonaudit fees should be calculated by adding financial information systems design and implementation fees and all other fees.
- An auditor has a financial interest in or association with the company, and is therefore not independent
- There is reason to believe that the independent auditor has rendered an opinion which is neither accurate nor indicative of the company's financial position
- Poor accounting practices are identified that rise to a serious level of concern, such as: fraud; misapplication of GAAP; and material weaknesses identified in Section 404 disclosures

Vote **for** shareholder proposals that request the company rotate its auditors, taking into account the length of rotation specified in the proposal.

Vote **for** shareholder proposals that request the board adopt a policy stating that the company's independent accountants will only provide audit services to the company and no other services.

Vote **for** shareholder proposals requesting the company submit the ratification of its auditors to a shareholder vote.

## **Transact Other Business**

Vote **against** management proposals asking for authority to vote at the meeting for "other business" not already described in the proxy statement.

## **II. THE BOARD OF DIRECTORS**

### **Voting on Director Nominees in Uncontested Elections**

Votes on management proposals to elect director nominees are evaluated by taking the following factors into account: composition of the board and key board committees, attendance at board meetings, corporate governance provisions and takeover activity, long-term company performance relative to a market index, directors' investment in the company, whether the chairman is also serving as CEO, and whether a retired CEO sits on the board. However, there are some actions by directors that should result in votes being withheld. These instances include directors who:

- Attend less than 75 percent of the board and committee meetings without a valid excuse
- In cases of chronic poor attendance without reasonable justification, in addition to voting against the director(s) with poor attendance, generally vote against or withhold from appropriate members of the nominating/governance committees or the full board
- Implement or renew a dead-hand or modified dead-hand poison pill
- Adopts a long-term poison pill without shareholder approval. When it comes to the adoption of short-term poison pill, the nomination of directors will be assessed on a case-by-case basis.
- Ignore a shareholder proposal that is approved by a majority of the votes cast
- Are incumbent board members and the board implements an advisory vote on executive compensation on a less frequent basis than the frequency that received the majority of votes cast at the most recent shareholder meeting at which shareholders voted on the say-on-pay frequency
- Failed to act on takeover offers where the majority of the shareholders tendered their shares
- Are inside directors or affiliated outsiders and sit on the audit, compensation, or nominating committees
- Are inside directors or affiliated outsiders and the full board serves as the audit, compensation, or nominating committee or the company does not have one of these committees
- Are audit committee members and the non-audit fees paid to the auditor are more than 20 percent of total fees paid to the auditors
- Are audit committee members and the company receives an adverse opinion on the company's financial statements from its auditor
- Are audit committee members and poor accounting practices are identified that rise to a level of serious concern, such as: fraud; misapplication of GAAP; and material weaknesses identified in Section 404 disclosures

- Are audit committee members and the audit committee entered into an inappropriate indemnification agreement with its auditor
- Are inside directors or affiliated outside directors and the full board is less than majority independent
- Sit on more than two outside public company boards (i.e. more than three boards in total, including the board seat of the company for which the vote is being cast), or sit on more than one outside public company board if they are CEOs of public companies (i.e. more than two boards in total, including the seat for which the vote is being cast)
- Are on the compensation committee and potentially the full board when there is a recurring or egregious negative correlation between chief executive pay and company performance
- Are on the compensation committee and potentially the full board when the company has recurring or egregious problematic pay practices
- Are on the compensation committee and potentially the full board when the company exhibits a significant level of poor communication and responsiveness to shareholders
- Have failed to address the issue(s) that resulted in any of the directors receiving more than 50% withhold votes out of those cast at the previous board election
- Are incumbent board members and the board had material failures of governance, stewardship, risk oversight, or fiduciary responsibilities at the company

In addition, directors who enacted egregious corporate governance policies or failed to replace management as appropriate would be subject to recommendations to **withhold** votes.

If the board lacks accountability and oversight coupled with sustained poor performance relative to peers, any or all appropriate nominees may be held accountable.

If the board is classified and a continuing director responsible for a problematic governance issue at the board/committee level that would warrant a **withhold/against** vote recommendation is not up for election, any or all appropriate nominees may be held accountable.

Exception may be made for new nominees.

### **Term Limits**

Generally, vote **against** term limits unless it is determined that the lack of new perspectives, resulting from insufficient turnover, may be unfavorable to long-term investment interests.

## **Board Size**

Generally, vote **for** management proposals to determine board size.

## **Classification/Declassification of the Board**

Vote **against** management proposals to classify the board.

Vote **for** shareholder proposals to repeal a classified board.

## **Cumulative Voting**

Vote **against** proposals to eliminate cumulative voting.

Vote **for** proposals to restore or permit cumulative voting in those cases where shareholders have access to the board through their own nominations.

## **Director and Officer Indemnification and Liability Protection**

Vote **for** indemnification proposals that only cover legal expenses when the officer acted in good faith in what he/she believed was the company's interest.

Vote **against** proposals that totally eliminate officers' liability.

A certain level of protection is desirable so as to attract and keep qualified candidates as directors and officers. This protection, however, must not go so far as to excuse officers from being accountable for their actions or for becoming negligent in their duties. The protection should only be effective when officers act in good faith, for the best interests of the company. Specifically, officers should be liable for:

- a) breach of loyalty;
- b) acts or omissions not in good faith or involving intentional misconduct or knowing violations of the law;
- c) unlawful purchases or redemptions of stock;
- d) payments of unlawful dividends; or
- e) receipt of improper personal benefits.

## **Establish/Amend Nominee Qualifications**

Generally, vote **for** management proposals to establish or amend director qualifications unless the proposed criteria are unreasonable and would have a demonstrable effect in precluding dissident nominees from joining the board.

Vote **against** shareholder proposals requiring two candidates per board seat.

## **Filling Vacancies/Removal of Directors**

Vote **against** management proposals to allow for a director's removal from the board only for cause. Directors should be elected or removed by a simple majority vote of shareholders.

Vote **against** management proposals which provide that only continuing directors may fill vacancies on the board.

Vote **for** proposals which allow shareholders to fill vacancies on the board.

Vote **for** proposals to restore shareholder ability to remove directors with or without cause.

## **Independent Chairman (Separate Chairman/CEO)**

Vote **for** shareholder proposals to separate the position of chairman of the board and CEO. The combination of the two positions creates an inherent conflict of interests.

## **Majority Vote Proposals**

Vote **for** reasonably crafted proposals calling for directors to be elected with an affirmative majority of votes cast and/or the elimination of the plurality standard for electing directors (including binding resolutions requesting that the board amend the company's bylaws), provided the proposal includes a carve-out for a plurality voting standard when there are more director nominees than board seats (e.g. contested elections).

## **Majority of Independent Directors/Establishment of Committees**

Generally, vote **for** shareholder proposals asking that boards be comprised of a majority of independent directors, unless it has been determined that the current board composition satisfies our independence threshold.

Vote **for** shareholder proposals asking that board audit, compensation, and/or nominating committees be comprised exclusively of independent directors.

## **Proxy Access to Nominate Directors**

Management and shareholder proposals to enact provisions that give shareholders access to the proxy to nominate directors that are evaluated based on the long-term investment interests of the System, and are examined by considering the following factors:

- Company-specific factors; and

- Proposal-specific factors, including:
  - The ownership thresholds proposed in the resolution (i.e. percentage and duration);
  - The maximum proportion of directors that shareholders may nominate each year; and
  - The method of determining which nominations should appear on the ballot if multiple shareholders submit nominations

## **Open Access**

Vote **for** any and all equal access proposals.

Equal access proposals generally relate to three major topics:

- a) discussion of management nominees for the board of directors;
- b) discussion of other management proposals;
- c) discussion of shareholders' own proposals or nominees.

Shareholders should have the freedom to obtain information and discuss all of these topics. Only with sufficient information will they be able to vote their proxies wisely and maximize the value of their stock.

Management will often oppose these equal access proposals, seeing them as an infringement of its rights. Management will argue that the added cost and length of proxy statements is inefficient. The marginal cost of longer proxies, however, will be minimal, and the cost will be borne by the stockholders anyway.

## **Stock Ownership Requirements**

Vote **for** shareholder proposals requiring directors to own company stock in order to qualify as a director, or to remain on the board.

Shareholder proposals asking that the company adopt a holding or retention period for its executives (for holding stock after the vesting or exercise of equity awards) shall be evaluated by taking into account any stock ownership requirements or holding period/retention ratio already in place and the actual ownership level of executives.

## **Plurality Vote Requirement for Director Nominees**

Vote **for** proposals to elect director nominees by the affirmative vote of the majority of votes cast at an annual meeting of shareholders.



### **III. PROXY CONTESTS**

#### **Voting for Director Nominees in Contested Elections**

Votes in a contested election of directors are evaluated based on the long-term economic interest of the System, and must be examined by taking the following factors into account:

- Past performance relative to its peers;
- Market in which fund invests;
- Measures taken by the board to address the issues;
- Past shareholder activism, board activity, and votes on related proposals;
- Strategy of the incumbents versus the dissidents;
- Independence of directors;
- Experience and skills of director candidates;
- Governance profile of the company;
- Evidence of management entrenchment.

#### **Reimbursing Proxy Solicitation Expenses**

Generally, vote **for** proposals to reimburse all appropriate proxy solicitation expenses when voting in conjunction with support of a dissident slate. We will also generally support shareholder proposals calling for the reimbursement of reasonable costs associated with nominating one or more candidates in a contested election where the following apply:

- The election of fewer than 50% of the directors to be elected is contested in the election;
- One or more of the dissident's candidates is elected;
- Shareholders are not permitted to cumulate their votes for directors; and
- The election occurred, and the expenses were incurred, after the adoption of this bylaw.

### **IV. ANTI - TAKEOVER MECHANISMS**

#### **Confidential Voting**

Vote **for** a confidential voting policy.

Confidential voting would minimize the ability of management to influence proxy votes. It would allow shareholders the freedom to vote solely in their best interests, not considering actual or perceived pressure from management.

In order to maintain and monitor fiduciary responsibility, fiduciaries should still make their records available to clients after the confidential vote. Therefore, fiduciaries can still be held accountable for their votes.

### **Advance Notice Requirements for Shareholder Proposals/Nominations**

Generally, vote **for** advance notice resolutions provided that the proposals seek to allow shareholders to submit proposals as close to the meeting date as reasonably possible and within the broadest window possible. A reasonable deadline for shareholder notice of a proposal/ nominations must not be more than 60 days prior to a meeting, with a submittal window of at least 30 days prior to the deadline.

### **Amend Bylaws without Shareholder Consent**

Vote **against** proposals giving the board exclusive authority to amend the bylaws.

Vote **for** proposals giving the board the ability to amend the bylaws in addition to shareholders.

### **Poison Pills**

Vote **for** shareholder resolutions requiring that poison pills must be submitted for shareholder approval before going into effect.

Generally, vote **against** management proposals to approve or renew a poison pill unless the following factors are present:

- 1) 20 percent or higher flip-in
- 2) Two- to three-year sunset provision
- 3) No dead-hand or no-hand provision
- 4) Shareholder redemption feature: If the board refuses to redeem the pill 90 days after an offer is announced, ten percent of the shares may call a special meeting or seek a written consent to vote on rescinding the pill.

### **Shareholder Ability to Act by Written Consent**

Vote **against** management proposals to restrict or prohibit shareholders' ability to take action by written consent.

Vote **for** shareholder proposals to allow or make easier shareholder action by written consent.

## Shareholder Ability to Call Special Meetings

Vote **against** management proposals to restrict or prohibit shareholders' ability to call special meetings.

Vote **for** shareholder proposals to allow or make easier shareholders' ability to call special meetings.

## Supermajority Vote Requirements

Vote **against** management proposals to require a supermajority vote to amend any bylaw or charter provision.

Vote **for** shareholder proposals to lower supermajority vote requirements to amend any bylaw or charter provision. However, at companies with shareholder(s) who have significant ownership levels, proposals to lower supermajority vote requirements should be analyzed on a case-by-case basis, taking into account the following:

- Ownership structure;
- Quorum requirements; and
- Vote requirements

## Exclusive Venue

Management proposals seeking shareholder approval to limit shareholder litigation to the company's jurisdiction of incorporation are evaluated based on the long-term investment interests of the System, and are examined by considering the following factors:

- Whether the company has been materially harmed by shareholder litigation outside its jurisdiction of incorporation, based on disclosure in the company's proxy statement; and
- Whether the company has the following good governance features:
  - An annually elected board;
  - A majority vote standard in contested director elections; and
  - The absence of a poison pill, unless the pill was approved by shareholders.

Vote **for** shareholder proposals to remove or adjust exclusive venue proposals, unless:

- The company has sufficiently proven that it has been materially harmed by shareholder litigation outside its jurisdiction of incorporation; and
- The company has the following good governance features:
  - An annually elected board;
  - A majority vote standard in contested director elections; and
  - The absence of a poison pill, unless the pill was approved by shareholders.

## **V. MERGERS AND CORPORATE RESTRUCTURINGS**

### **Appraisal Rights**

Vote **for** shareholder proposals to provide rights of appraisal to dissenting shareholders.

### **Asset Purchases**

Votes on asset purchase proposals are evaluated based on the long-term investment interests of the System, and are examined by considering the following factors:

- Purchase price
- Fairness opinion
- Financial and strategic benefits
- How the deal was negotiated
- Conflicts of interest
- Other alternatives for the business
- Noncompletion risk

### **Asset Sales**

Votes on asset sales are evaluated based on the long-term investment interests of the System, and are examined by considering the following factors:

- Impact on the balance sheet/working capital
- Potential elimination of diseconomies
- Anticipated financial and operating benefits
- Anticipated use of funds
- Value received for the asset
- Fairness opinion
- How the deal was negotiated
- Conflicts of interest

### **Bundled Proposals**

Vote **against** bundled proxy proposals.

## **Conversion of Securities**

Votes on proposals regarding conversion of securities are determined based on the long-term economic interest of the System. When evaluating these proposals the investor should review the dilution to existing shareholders, the conversion price relative to market value, financial issues, control issues, termination penalties, and conflicts of interest.

Vote **for** the conversion if it is expected that the company will be subject to onerous penalties or will be forced to file for bankruptcy if the transaction is not approved.

## **Corporate Reorganization/Debt Restructuring/Prepackaged Bankruptcy Plans/Reverse Leveraged Buyouts/Wrap Plans**

Votes on proposals to increase common and/or preferred shares and to issue shares as part of a debt restructuring plan are determined based on the long-term investment interest of the System, by taking into consideration the following:

- Dilution to existing shareholders' position
- Terms of the offer
- Financial issues
- Management's efforts to pursue other alternatives
- Control issues
- Conflicts of interest

Vote **for** the debt restructuring if it is expected that the company will file for bankruptcy if the transaction is not approved.

## **Formation of Holding Company**

Votes on proposals regarding the formation of a holding company should be determined based on the long-term economic interests of the System, taking into consideration the following:

- The reasons for the change
- Any financial or tax benefits
- Regulatory benefits
- Increases in capital structure
- Changes to the articles of incorporation or bylaws of the company

Absent compelling financial reasons to recommend the transaction, vote **against** the formation of a holding company if the transaction would include either of the following:

- Increases in common or preferred stock in excess of the allowable maximum as calculated by the ISS Capital Structure model
- Adverse changes in shareholder rights

### **Going Private Transactions (LBOs and Minority Squeeze Outs)**

Going private transactions are evaluated based on the long-term economic interest of the System, by taking into account the following: offer price/premium, fairness opinion, how the deal was negotiated, conflicts of interest, other alternatives/offers considered, and noncompletion risk.

### **Joint Ventures**

Proposals seeking to form joint ventures are determined based on the long-term investment interests of the System, by taking into account the following: percentage of assets/business contributed, percentage ownership, financial and strategic benefits, governance structure, conflicts of interest, other alternatives, and noncompletion risk.

### **Liquidations**

Proposals on liquidations are considered based on the long-term investment interests of the System, by taking into account the following: management's efforts to pursue other alternatives, appraisal value of assets, and the compensation plan for executives managing the liquidation.

Vote **for** the liquidation if the company will file for bankruptcy if the proposal is not approved.

### **Mergers and Acquisitions/ Issuance of Shares to Facilitate Merger or Acquisition**

Proposals to merge one company with another, or for one company to acquire another are determined based on the long-term economic interest of the System. When evaluating the proposals, shareholders should weigh the cost to the company, market reaction, strategic rationale, the immediate and long-term benefits to shareholders, conflict of interests, and the resulting corporate governance changes.

### **Private Placements/Warrants/Convertible Debentures**

Votes on proposals regarding private placements should be determined based on the long-term investment interests of the System. When evaluating these proposals the investor should review: dilution to existing shareholders' position, terms of the offer, financial issues, management's efforts to pursue other alternatives, control issues, conflicts of interest, and market reaction.

Vote **for** the private placement if it is expected that the company will file for bankruptcy if the transaction is not approved.

## **Spinoffs**

Votes on spinoffs should be considered based on the long-term investment interests of the System, taking the following factors into account:

- Tax and regulatory advantages
- Planned use of the sale proceeds
- Valuation of spinoff
- Fairness opinion
- Benefits to the parent company
- Conflicts of interest
- Managerial incentives
- Corporate governance changes
- Changes in the capital structure

## **Value Maximization Proposals**

Shareholder proposals seeking to maximize shareholder value by hiring a financial advisor to explore strategic alternatives, selling the company or liquidating the company and distributing the proceeds to shareholders should be evaluated based on the following factors: prolonged poor performance with no turnaround in sight, signs of entrenched board and management, strategic plan in place for improving value, likelihood of receiving reasonable value in a sale or dissolution, and whether company is actively exploring its strategic options, including retaining a financial advisor.

## **VI. STATE OF INCORPORATION**

### **Control Share Acquisition Provisions**

Vote **for** proposals to opt out of control share acquisition statutes unless doing so would enable the completion of a takeover that would be detrimental to shareholders.

Vote **against** proposals to amend the charter to include control share acquisition provisions.

Vote **for** proposals to restore voting rights to the control shares.

### **Control Share Cashout Provisions**

Vote **for** proposals to opt out of control share cashout statutes.

## **Disgorgement Provisions**

Vote **for** proposals to opt out of state disgorgement provisions, if maximizing shareholder value.

## **Fair Price Provisions**

Vote **for** management proposals to adopt a fair price provision, as long as the shareholder vote requirement embedded in the provision is no more than a majority of the disinterested shares.

Vote **against** all other management fair price proposals.

Vote **for** shareholder proposals to lower the shareholder vote requirement embedded in existing fair price provisions.

Generally, vote **against** fair price provisions with shareholder vote requirements greater than a majority of disinterested shares.

## **Freeze Out Provisions**

Vote **for** proposals to opt out of state freeze out provisions, if maximizing shareholder value.

## **Greenmail**

Vote **for** proposals to restrict the company's ability to pay greenmail.

## **Reincorporation Proposals**

Proposals to change a corporation's state of incorporation should be examined based on the long-term economic interest of the System, giving consideration to both financial and corporate governance concerns including the following:

- Reasons for reincorporation;
- Comparison of company's governance practices and provisions prior to and following the reincorporation; and
- Comparison of corporation laws of original state and destination state

Vote **against** proposals that seek to reincorporate the company outside of the jurisdiction of the United States.

## **Stakeholder Provisions**

Vote **against** proposals that ask the board to consider nonshareholder constituencies or other nonfinancial effects when evaluating a merger or business combination.



## **VII. CAPITAL STRUCTURE**

### **Adjustments to Par Value of Common Stock**

Vote **for** management proposals to reduce the par value of common stock, if it will not adversely affect shareholder rights.

### **Common Stock Authorization**

Votes on proposals to increase the number of shares of common stock authorized for issuance are determined based on the long-term economic interest of the System, using a model developed by ISS.

Vote **against** proposals at companies with dual-class capital structures to increase the number of authorized shares of the class of stock that has superior voting rights.

Vote **for** proposals to approve increases beyond the allowable increase when a company's shares are in danger of being delisted or if a company's ability to continue to operate as a going concern is uncertain.

### **Dual-Class Stock**

Proposals to recapitalize a company into dual classes of voting stock must be examined based on the long-term economic interest of the System.

Vote **against** the creation of stock with supervoting privileges.

Vote **against** proposals that introduce nonvoting shares or exchange voting shares for nonvoting shares.

Vote **for** shareholder proposals asking that a company report to shareholders on the financial impact of its dual class voting structure.

Vote **for** shareholder proposals asking that a company submit its dual class voting structure for shareholder ratification.

### **Issue Stock for Use with Rights Plan**

Vote **against** proposals that increase authorized common stock for the explicit purpose of implementing a shareholder rights plan (poison pill).

### **Preemptive Rights**

Vote **against** proposals requesting the issuance of shares with or without preemptive rights which are excessive under local market best practice standards.

## **Preferred Stock**

Vote **against** proposals authorizing the creation of new classes of preferred stock with unspecified voting, conversion, dividend distribution, and other rights ("blank check" preferred stock).

Vote **for** proposals to create "declawed" blank check preferred stock (stock that cannot be used as a takeover defense).

Vote **for** proposals to authorize preferred stock in cases where the company specifies the voting, dividend, conversion, and other rights of such stock and the terms of the preferred stock appear reasonable.

Vote **against** proposals to increase the number of blank check preferred stock authorized for issuance when no shares have been issued or reserved for a specific purpose.

Votes on proposals to increase the number of blank check preferred shares are determined after analyzing the number of preferred shares available for issue given a company's industry and performance in terms of shareholder returns.

## **Recapitalization**

Votes on recapitalizations (reclassifications of securities) are considered based on long-term investment interests of the System, taking into account the following: more simplified capital structure, enhanced liquidity, fairness of conversion terms, impact on voting power and dividends, reasons for the reclassification, conflicts of interest, and other alternatives considered.

## **Reverse Stock Splits**

Generally, vote **for** management proposals to implement a reverse stock split provided that the number of authorized shares will be proportionally reduced or the effective increase in authorized shares is equal to or less than the allowable increase calculated in accordance with stock authorization model developed by ISS. In the event that a proportional reduction of authorized shares is not reciprocated, we will only support such proposals if:

- A stock exchange has provided notice to the company of a potential delisting;
- There is substantial doubt about the company's ability to continue as a going concern without additional financing; or
- The company's rationale or other factors as applicable merit support.

## **Share Repurchase Programs**

Proposals to repurchase shares should be considered based on the long-term economic interest of the System. For example, if this is done because management believes the

stock is undervalued then the measure should be approved. If the purchase is proposed as an antitakeover device, then it ought to be opposed. We generally vote **for** management proposals to institute open market share repurchase plans in which all shareholders may participate on equal terms.

### **Stock Distributions: Splits and Dividends**

Vote **for** management proposals to increase the common share authorization for a stock split or share dividend, provided that the increase in authorized shares would not result in an excessive number of shares available for issuance as determined using a model developed by ISS.

Generally, vote **for** proposals to approve stock splits or share dividends unless it is determined that such authorities are detrimental to the long-term economic interest of the System.

### **Tracking Stock**

Vote case-by-case on the creation of tracking stock, weighing the strategic value of the transaction against such factors as:

- Adverse governance changes;
- Excessive increases in authorized capital stock;
- Unfair method of distribution;
- Diminution of voting rights;
- Adverse conversion features;
- Negative impact on stock option plans; and
- Alternatives such as spin-off.

## **VIII. EXECUTIVE COMPENSATION**

Vote **for** resolutions intended to improve the transparency of executive compensation by:

- Requiring a company to place a dollar value on all forms of compensation paid to a company's top-five executives and to include such monetarized disclosure in the summary compensation tables filed by the company with the SEC.
- Requiring a company to disclose to shareholders that compensation paid to a company's top-five executives that are not tax-deductible for federal income tax purposes, and to state the monetary value of the costs of such non-deductibility to the company.
- Requiring a company to disclose to shareholders those gains realized by a company's top-five executives in their exercise of stock options (or in the vesting of restricted shares for restricted share grants) and to report what fraction, if any, is attributable to company outperformance of its industry peers.

- Requiring a company to periodically disclose to shareholders equity investments received as compensation and unloaded by any of the company's top-five executives.

Vote **for** resolutions intended to improve the linkage of executive pay-for-performance by:

- Indexing the exercise price of a company's stock option grants to industry sector or broad market stock movements, or by linking the exercise price to changes in the stock price of firms among the company's industry peer group.
- Establishing executive bonus plans that would discount those improvements in a company's financial performance attributable to industry sector or broad market movements.
- Establishing executive bonus plans that would not utilize metrics based on a company's absolute increases in earnings, sales, or revenues, but rather based on the company's performance relative to its industry peer group.
- Prohibiting a company's top-five executives from unwinding equity-based incentive compensation received from the company.
- Prohibiting a company's top-five executives from hedging or employing any measure intended to eliminate their exposure to a decline in the company stock price.
- Requiring a company's top-five executives to publicly disclose, not less than ten days in advance, their intention to sell company stock, including the number of shares to be sold.
- Requiring "clawback" provisions in executive compensation arrangements that would result in a return to the company of executive over-payments based on performance metrics that are subsequently depressed upon a company's restatement of earnings.
- Requiring equity-based executive compensation arrangements to be "dividend neutral" – i.e., neither encouraging nor discouraging the payment of stock dividends to shareholders.
- Requiring executive stock option plans to adjust downward the exercise price of such options to reflect dividend payments made on company stock during the executive's holding period.
- Curtailing Supplemental Executive Retirement Plans (SERPs) for the top-five executives in the event a company terminates, "freezes", or otherwise curtails a defined benefit plan covering its rank-and-file employees.
- Reducing benefits provided under severance arrangements for a company's chief executive officer (CEO).
- Limiting the ratio of the sum of the compensation paid to a company's top-five executives to 8% of the company's aggregate earnings.

### **Advisory Votes on Executive Compensation (Say-on-Pay) Management Proposals**

Generally, evaluate executive pay and practices based on the overall executive compensation structure's ability to effectively motivate participants to focus on long-term shareholder value and returns, while adhering to market law, disclosure and best practice standards.

Vote **against** management say on pay (MSOP) proposals, **against/withhold** on compensation committee members (or, in rare cases where the full board is deemed responsible, all directors including the CEO), and/or **against** an equity-based incentive plan proposal if:

- There is a misalignment between CEO pay and company performance (pay for performance);
- The company maintains problematic pay practices;
- The board exhibits poor communication and responsiveness to shareholders.

### **Frequency of Advisory Vote on Executive Compensation (Management "Say on Pay")**

Vote **for** annual advisory votes on compensation, which provide the most consistent and clear communication channel for shareholder concerns about companies' executive pay programs.

### **Advisory Vote on Golden Parachutes in an Acquisition, Merger, Consolidation, or Proposed Sale**

We will evaluate these proposals based on our existing policies related to severance packages and problematic pay practices.

### **Equity-Based and Other Incentive Plans**

Proposals concerning director compensation are determined based on compensation methodology developed by ISS.

Vote **against** awarding stock option plans as compensation for directors.

### **Stock Plans in Lieu of Cash**

Votes **for** plans which provide directors with the choice of taking all or a portion of their cash compensation in the form of stock or which provide a dollar-for-dollar cash for stock exchange.

### **Director Retirement Plans**

Vote **against** retirement plans for non-employee directors.

Vote **for** shareholder proposals to eliminate retirement plans for non-employee directors.

### **Management Proposals Seeking Approval to Reprice Options**

Vote **against** management proposals seeking approval to reprice options.

### **Shareholder Proposals Regarding Executive and Director Pay**

Vote **for** shareholder proposals seeking additional disclosure of executive and director pay information, provided the information requested is relevant to shareholders' needs, would not put the company at a competitive disadvantage relative to its industry, and is not unduly burdensome to the company.

Vote **against** shareholder proposals seeking to set absolute levels on compensation or otherwise dictate the amount or form of compensation.

Vote **against** shareholder proposals requiring director fees be paid in stock only.

Vote **for** shareholder proposals to put option repricings to a shareholder vote.

All other shareholder proposals regarding executive and director pay are evaluated by taking into account company performance, pay level versus peers, pay level versus industry, and long term corporate outlook.

### **Qualified Employee Stock Purchase Plans**

Vote **for** proposals to approve qualified employee stock purchase plans where all of the following are aligned with local market best practice standards:

- Purchase price;
- Offering period; and
- The number of shares.

### **Nonqualified Employee Stock Purchase Plans**

Vote **for** proposal to approve nonqualified employee stock purchase plans where all of the following are aligned with local market best practice standards:

- Broad-based participation;
- Limits on employee contribution;
- Company matching contribution;
- No discount on the stock price on the date of purchase (since there is a company matching contribution).

In the event of excessive company matching contributions, we will evaluate the cost of plan against an allowable cap developed by ISS.

### **Employee Stock Ownership Plans (ESOPs)**

Vote **for** proposals to implement an ESOP or increase authorized shares for existing ESOPs, unless the number of shares allocated to the ESOP is excessive (more than five percent of outstanding shares.)

### **401(k) Employee Benefit Plans**

Vote **for** proposals to implement a 401(k) savings plan for employees.

### **Performance-Based Awards**

Generally vote **for** shareholder proposals advocating the use of performance-based awards like indexed, premium-priced, and performance-vested options or performance-based shares, unless:

- The proposal is overly restrictive (e.g., it mandates that awards to all employees must be performance-based or all awards to top executives must be a particular type, such as indexed options)
- The company demonstrates that it is using a substantial portion of performance-based awards for its top executives

### **Pay-for-Superior-Performance Standard**

Generally vote **for** shareholder proposals requesting to establish a pay-for-superior-performance standard whereby the company discloses defined financial performance criteria and a detail list of comparative peer group to allow shareholders to sufficiently determine the pay and performance correlation established in the plan. In addition, establish that no award should be paid out unless the company performance exceeds its peer's median or mean performance on the selected financial and stock price performance criteria.

### **Golden Parachutes and Executive Severance Agreements**

Vote **for** shareholder proposals to require golden parachutes or executive severance agreements to be submitted for shareholder ratification, unless the proposal requires shareholder approval prior to entering into employment contracts.

Proposals to ratify or cancel golden parachutes are determined based on several qualifying factors. An acceptable parachute should include the following:

- The triggering mechanism should be beyond the control of management

- The amount should not exceed three times base amount (defined as the average annual taxable W-2 compensation during the five years prior to the year in which the change of control occurs)
- Change-in-control payments should be double-triggered, i.e., (1) after a change in control has taken place, and (2) termination of the executive as a result of a “change in control”, meaning a change in the company ownership structure
- The agreements do not contain problematic features (e.g. excessive cash severance; excessive golden parachute payments)

### **Pension Plan Income Accounting**

Vote **for** shareholder proposals to exclude pension plan income in the calculation of earnings used in determining executive bonuses/compensation.

### **Supplemental Executive Retirement Plans (SERPs)**

Vote **for** shareholder proposals requesting to put extraordinary benefits contained in SERP agreements to a shareholder vote unless the company’s executive pension plans do not contain excessive benefits beyond what is offered under employee-wide plans. In addition, generally vote **for** shareholder proposals urging the board to limit the executive benefits provided under the company’s supplemental executive retirement plan (SERP) by limiting covered compensation to a senior executive’s annual salary and excluding of all incentive or bonus pay from the plan’s definition of covered compensation used to establish such benefits.

### **Advisory Vote on Executive Compensation (Say-on-Pay)**

Generally vote **for** shareholder proposals asking the board to propose an advisory resolution seeking to ratify the compensation of the company’s named executive officers (NEOs) on an annual basis. The proposal submitted to shareholders should make it clear that the vote is non-binding and would not have an impact on compensation paid or awarded to any NEO.

### **Disclosure of Board or Company’s Utilization of Compensation Consultants**

Generally vote **for** shareholder proposals seeking disclosure regarding the Company, Board, or Board committee’s use of compensation consultants, such as company name, business relationship(s) and fees paid.

## **IX. SOCIAL AND ENVIRONMENTAL ISSUES**

Social issue proposals will be considered based on their potential impact on the long-term economic interests of the System. Generally, we will **abstain** absent clear effect of proposal on share value.



# NON-U.S. PROXY VOTING GUIDELINES

## **I. OPERATIONAL ITEMS**

### **Allocation of Income**

Vote **for** approve of the allocation of income, unless:

- The dividend payout ratio has been consistently below 30 percent without adequate explanation; or
- The payout is excessive given the company's financial position.

### **Amend Minor Bylaws/Articles of Association**

Generally, vote **for** proposals to make bylaw or charter changes that are of a housekeeping nature (updates or corrections) unless the proposed changes are believed to be detrimental to shareholder value or in absence of adequate information to evaluate the proposal per local market best practice standards.

### **Amend Quorum Requirements**

Proposals to amend quorum requirements for shareholder meetings are evaluated based on several factors which include: market norms, the company's reasons for the change, and the company's ownership structure.

### **Change in Company Fiscal Term**

Vote **for** proposals to change a company's fiscal term unless the company's motivation for the change is to postpone its annual general meeting.

### **Financial Statements/Director and Auditor Reports**

Vote **for** proposals to approve financial statements and director and auditor reports, unless:

- There are concerns about the accounts presented or audit procedures used; or
- The company is not responsive to shareholder questions about specific items that should be publicly disclosed.

## General Meeting Formalities

In some markets, shareholders are routinely asked to approve:

- the opening of the shareholder meeting
- acknowledge proper convening of meeting
- that the meeting has been convened under local regulatory requirements
- the presence of quorum
- the agenda for the shareholder meeting
- the election of the chair of the meeting
- the appointment of shareholders to co-sign the minutes of the meeting
- regulatory filings
- the designation of inspector or shareholder representative(s) of minutes of meeting
- the designation of two shareholders to approve and sign minutes of meeting
- the allowance of questions
- the publication of minutes
- the closing of the shareholder meeting
- authorize board to ratify and execute approved resolutions
- prepare and approve list of shareholders

As these are typically formalities associated with the convening of general shareholder meetings, generally vote **for** these and similar routine management proposals.

## Lower Disclosure Threshold for Stock Ownership

Vote **against** proposals to lower the stock ownership disclosure threshold below 5 percent unless specific reasons exist to implement a lower threshold.

## Stock (Scrip) Dividend Alternative

Generally, vote **for** stock (scrip) dividend proposals.

Vote **against** proposals that do not allow for a cash option unless management demonstrates that the cash option is detrimental to shareholder value.

## Transact Other Business

Vote **against** other business when it appears as a voting item.

## **II. AUDITORS**

### **Appointment of Auditors and Auditor Fees**

Vote **for** the reelection of auditors and proposals authorizing the board to fix auditor fees, unless:

- There are serious concerns about the accounts presented or the audit procedures used;
- The auditors are being changed without explanation;
- The name(s) of the proposed auditors has not been published;
- The auditors are being changed without explanation;
- For widely-held companies, excessive fees for non-audit services as determined by local market best practice standards; or
- The lead audit partner(s) has been linked with a significant auditing controversy.

Vote **against** the appointment of external auditors if they have previously served the company in an executive capacity or can otherwise be considered affiliated with the company.

### **Appointment of Internal Statutory Auditors**

Vote **for** the appointment or reelection of statutory auditors, unless:

- There are serious concerns about the statutory reports presented or the audit procedures used;
- Questions exist concerning any of the statutory auditors being appointed; or
- The auditors have previously served the company in an executive capacity or can otherwise be considered affiliated with the company.

### **Auditor Indemnification and Liability Provisions**

Vote **against** proposals to indemnify auditors.

## **III. THE BOARD OF DIRECTORS**

### **Voting on Director Nominees in Uncontested Elections (Non-U.S.)**

Votes on management nominees in the election of directors are evaluated by observing relevant market listing rules and regulations, coupled with local market best practice standards. We will typically not support nominees if:

- Adequate disclosure has not been provided in a timely manner;

- There are clear concerns over questionable finances or restatements;
- There have been questionable transactions with conflicts of interest;
- There are any records of abuses against minority shareholder interests; or
- The board fails to meet minimum corporate governance standards.

Vote **for** individual nominees unless there are specific concerns about the individual, such as criminal wrongdoing or breach of fiduciary responsibilities.

Vote **against** individual directors if repeated absences at board meetings have not been explained (in countries where this information is disclosed).

Votes in a contested election of directors are evaluated based on the long-term economic interest of the System, and must be examined by taking the following factors into account:

- Past performance relative to its peers;
- Market in which fund invests;
- Measures taken by the board to address the issues;
- Past shareholder activism, board activity, and votes on related proposals;
- Strategy of the incumbents versus the dissidents;
- Independence of directors;
- Experience and skills of director candidates;
- Governance profile of the company;
- Evidence of management entrenchment.

Vote **for** employee and/or labor representatives if they sit on either the audit or compensation committee *and* are required by law to be on those committees. Vote **against** employee and/or labor representatives if they sit on either the audit or compensation committee, if they are not required to be on those committees.

Under extraordinary circumstances, vote **against** or **withhold** from directors individually, on a committee, or the entire board, due to:

- Material failures of governance, stewardship, or fiduciary responsibilities at the company; or
- Failure to replace management as appropriate; or
- Egregious actions related to the director(s)' service on other boards that raise substantial doubt about his or her ability to effectively oversee management and serve the best interests of shareholders at any company.

## **Board Structure**

Generally, vote **for** management proposals to determine board size.

## **Director and Officer Indemnification and Liability Provisions**

Votes on proposals seeking indemnification and liability protection for directors and officers are examined based on the indemnification and liability protections applicable in each respective market, provided that they are within reason. We will generally only support those proposals that provide directors and officers protection if they have acted in good faith on company business and were found innocent of any civil or criminal charges for duties performed on behalf of the company.

## **Discharge of Directors**

Generally vote **for** the discharge of directors, including members of the management board and/or supervisory board, unless there is reliable information about significant and compelling controversies that the board is not fulfilling its fiduciary duties warranted by:

- A lack of oversight or actions by board members which invoke shareholder distrust related to malfeasance or poor supervision, such as operating in private or company interest rather than in shareholder interest; or
- Any legal issues (e.g. civil/criminal) aiming to hold the board responsible for breach of trust in the past or related to currently alleged actions yet to be confirmed (and not only the fiscal year in question), such as price fixing, insider trading, bribery, fraud, and other illegal actions; or
- Other egregious governance issues where shareholders will bring legal action against the company or its directors.

## **IV. PROXY CONTESTS**

### **Voting for Director Nominees in Contested Elections**

Votes in a contested election of directors are evaluated based on the long-term economic interest of the System, and must be examined by taking the following factors into account:

- Past performance relative to its peers;
- Market in which fund invests;
- Measures taken by the board to address the issues;
- Past shareholder activism, board activity, and votes on related proposals;
- Strategy of the incumbents versus the dissidents;
- Independence of directors;

- Experience and skills of director candidates;
- Governance profile of the company;
- Evidence of management entrenchment.

## **V. ANTI - TAKEOVER MECHANISMS**

### **Anti-takeover/Entrenchment Devices**

Generally vote **against** all antitakeover proposals, unless they are structured in such a way that they give shareholders the ultimate decision on any proposal or offer.

### **Depository Receipts and Priority Shares**

Generally vote **against** the introduction of depository receipts and priority shares.

### **Issuance of Free Warrants**

Generally vote **against** the issuance of free warrants.

### **Mandatory Takeover Bid Waivers**

Generally, vote **for** proposals to waive mandatory takeover bid requirements provided that the event prompting the takeover bid is a repurchase by the company of its own shares. During a buyback of shares, the relative stake of a large shareholder increases even though the number of shares held by the large shareholder has not changed. In certain markets, the mandatory bid rules require a large shareholder to make a takeover offer if its stake in the company is increased on a relative basis as a result of a share repurchase by the company. Companies in such markets may seek a waiver from the takeover bid requirement applicable to their large shareholder.

### **Renew Partial Takeover Provision**

Generally vote **for** the adoption of this proposal as this article provides protection for minority shareholders by giving them ultimate decision-making authority based on their own interests.

## **VI. MERGERS AND CORPORATE RESTRUCTURINGS**

### **Control and Profit Transfer Agreements**

Generally vote **for** management proposals to approve control and profit transfer agreements between a parent and its subsidiaries.

## **Expansion of Business Activities**

Vote **for** resolutions to expand business activities unless the new business takes the company into risky areas.

## **Mergers and Acquisitions/ Issuance of Shares to Facilitate Merger or Acquisition**

Proposals to merge one company with another, or for one company to acquire another are determined based on the long-term economic interest of the System. When evaluating the proposals, shareholders should weigh the cost to the company, market reaction, strategic rationale, the immediate and long-term benefits to shareholders, conflict of interests, whether the transaction is contested, and the resulting corporate governance changes.

Vote **against** if the companies do not provide sufficient information upon request to make an informed voting decision.

## **Related-Party Transactions**

Evaluate resolutions that seek shareholder approval on related party transactions (RPTs), considering factors including, but not limited to, the following:

- the parties on either side of the transaction;
- the nature of the asset to be transferred/service to be provided;
- the pricing of the transaction (and any associated professional valuation);
- the views of independent directors (where provided);
- the views of an independent financial adviser (where appointed);
- whether any entities party to the transaction (including advisers) are conflicted; and
- the stated rationale for the transaction, including discussions of timing.

If there is a transaction that NHRS deemed problematic and that was not put to a shareholder vote, we may recommend against the election of the director involved in the related-party transaction or the full board.

## **Reorganizations/Restructurings**

Proposals to approve reorganizations and restructurings are evaluated based on the long-term economic interest of the System. When evaluating such proposals, shareholders should consider if there are clear conflicts of interest among the various parties, if shareholder rights' are being negatively affected, or if certain groups or shareholders appear to be getting a better deal at the expense of general shareholders.

## **VII. COUNTRY OF INCORPORATION**

### **Reincorporation Proposals**

Proposals to change a corporation's country of incorporation should be examined based on the long-term economic interest of the System, giving consideration to both financial and corporate governance concerns including the following:

- Reasons for reincorporation;
- Comparison of company's governance practices and provisions prior to and following the reincorporation; and
- Comparison of corporation laws of original country and destination country

## **VIII. CAPITAL STRUCTURE**

### **Adjust Par Value of Common Stock**

Vote **for** management proposals to reduce par value of common stock.

### **Capitalization of Reserves for Bonus Issues/Increase in Par Value**

Vote **for** requests to capitalize reserves for bonus issues of shares or to increase par value.

### **Debt Issuance Requests**

Votes on non-convertible debt issuance requests with or without preemptive rights are evaluated based on their individual merits, demonstrated need, and long-term investment interests of the company. We will examine the potential impact the proposed authority may have on the company's debt ratio, and further compare the level with similar peers in the industry.

Vote **for** the creation/issuance of convertible debt instruments as long as the maximum number of common shares that could be issued upon conversion meets recommended guidelines on equity issuance requests.

Vote **for** proposals to restructure existing debt arrangements unless the terms of the restructuring would adversely affect the rights of shareholders.

### **Increases in Authorized Capital**

Vote **for** non-specific proposals to increase authorized capital in line with local market best practice standards.



Vote **against** proposals to adopt unlimited capital authorizations.

### **Increase in Borrowing Powers**

Votes on proposals to approve increases in a company's borrowing powers are evaluated based on their individual merits, demonstrated need, and long-term investment interests of the company. We will examine the potential impact the proposed authority may have on the company's debt ratio, and further compare the level with similar peers in the industry.

### **Pledging of Assets for Debt**

Votes on proposals to approve the pledging of assets for debt are evaluated based on their individual merits, demonstrated need, and long-term investment interests of the company. We will examine the potential impact the proposed authority may have on the company's debt ratio, and further compare the level with similar peers in the industry.

### **Preferred Stock**

Vote **for** the creation of a new class of preferred stock or for issuances of preferred stock up to 50 percent of issued capital unless the terms of the preferred stock would adversely affect the rights of existing shareholders.

Vote **for** the creation/issuance of convertible preferred stock as long as the maximum number of common shares that could be issued upon conversion meets ISS guidelines on equity issuance requests.

Vote **against** the creation of a new class of preference shares that would carry superior voting rights to the common shares.

Vote **against** the creation of blank check preferred stock unless the board clearly states that the authorization will not be used to thwart a takeover bid.

Votes on proposals to increase blank check preferred authorizations are evaluated based on the rationale for requested increase, the ability for the company to use the blank check preferred stock as a takeover defense, and whether the company has historically issued such stock for legitimate financing purposes.

### **Preemptive Rights**

Vote **against** proposals requesting the issuance of shares with or without preemptive rights which are excessive under local market best practice standards.

## Reduction of Capital

Vote **for** proposals to reduce capital for routine accounting purposes unless the terms are unfavorable to shareholders.

Generally, vote **for** proposals to reduce capital in connection with corporate restructuring, as opposition could lead to insolvency, which is not in the long-term economic interests of shareholders. Evaluation of this type of proposal should take a realistic approach to the company's situation and the future prospects for shareholders.

## Reissuance of Repurchased Shares

Vote **for** requests to reissue any repurchased shares unless there is clear evidence of abuse of this authority in the past.

## Share Repurchase Programs

Generally vote **for** share repurchase programs/market repurchase authorities, provided that the proposal meets local market best practice standards regarding:

- Maximum volume;
- Duration.

For markets that either generally do not specify the maximum duration of the authority or seek an excessive duration that is allowable under market specific legislation, we will assess the company's historic practice. If there is evidence that a company has sought shareholder approval for the authority to repurchase shares on an annual basis, we will support the proposed authority.

In addition, vote **against** any proposal where:

- The repurchase can be used for takeover defenses;
- There is clear evidence of abuse;
- There is no safeguard against selective buybacks;
- Pricing provisions and safeguards are deemed to be unreasonable in light of market practice.

We may support share repurchase plans with excessive volume under exceptional circumstances, such as one-off company specific events (e.g. capital restructuring). Such proposals will be assessed based on merits, which should be clearly disclosed in the annual report.

## **IX. EXECUTIVE COMPENSATION**

### **Executive Compensation Plans**

All compensation proposals will be reviewed based on local market best practice standards.

### **Director Remuneration and Compensation**

Vote **for** proposals to award cash fees to non-executive directors unless the amounts are excessive relative to other companies in the country or industry.

Votes on non-executive director compensation proposals that include both cash and share-based components are determined based on whether the terms of the proposed compensation can effectively motivate participants to focus on long-term shareholder value and returns, while adhering to local market law, disclosure and best practice standards. However, we will typically vote **against** awarding stock option plans as compensation for non-executive directors.

Votes on proposals that bundle compensation for both non-executive and executive directors into a single resolution are determined based on whether the terms of the proposed compensation can effectively motivate participants to focus on long-term shareholder value and returns, while adhering to local market law, disclosure and best practice standards. However, we will typically vote **against** awarding stock option plans as compensation for non-executive directors.

Vote **against** proposals to introduce retirement benefits for non-executive directors.

### **Director and Statutory Auditor Retirement Plans**

Vote **against** retirement plans for nonemployee directors and statutory auditors.

Vote **for** shareholder proposals to eliminate retirement plans for nonemployee directors and statutory auditors.

### **Remuneration Report**

Management proposals seeking ratification of a company's remuneration policy are evaluated by considering a combination of local market law and best practice standards. We will typically oppose a company's remuneration policy if the proposed compensation policy/report was not made available to shareholders in a timely manner, or if the level of disclosure of the proposed compensation policy is below what local market best practice standards dictate.

## **X. SOCIAL AND ENVIRONMENTAL ISSUES**

Social issue proposals will be considered based on their potential impact on the long-term economic interests of the company. Generally, we will **abstain** absent clear effect of proposal on share value.

# **Securities Lending Policy**

## **New Hampshire Retirement System Securities Lending Policy**

This policy governs the System's direct lending program. The direct lending program covers securities directly owned by NHRS in separately managed accounts. This policy does not address indirect lending, where securities are lent from commingled investment funds.

Securities lending occurs when the System loans a security to a borrower, such as a broker-dealer or a bank, for cash or non-cash collateral pursuant to an agreement to return the identical security to NHRS in the future. Securities are borrowed for a number of reasons, including settlement of short sales and to cover hedges, options, arbitrage positions and settlement fails. Consequently, the borrower receives custody of the loaned security and has the right to resell it. The borrower, however, is obligated to return the exact same security at the end of the loan period and to make the System whole for dividends, interest, and other distributions as if the security remained in the System's portfolio during the loan period. The System does not retain the right to vote on any proxies for a given security during the period the security is on loan.

Due to the current relationship of risk to reward involved in securities lending, and the limited earning potential associated with this activity due to very low interest rates, the NHRS no longer participates in the practice of securities lending.

# **Securities Litigation Policy**

<p style="text-align: center;"><b>New Hampshire Retirement System Securities Litigation Policy Amended by NHRS Board of Trustees on January 14, 2014</b></p>
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## **I. Purpose and Intent**

This policy establishes the New Hampshire Retirement System's ("NHRS") policy regarding potential participation in securities class action lawsuits.

## **II. Policy**

### **A. Background**

To fulfill its fiduciary responsibilities to prudently invest and manage the assets of NHRS, NHRS purchases the stock of various public companies or issuers. Periodically, class action lawsuits are brought against the issuers, their directors and/or their officers for alleged violations of federal and state securities laws relating to various disclosure obligations and other breaches of fiduciary or other duties. As a shareholder, NHRS is often a member of the classes. Frequently, NHRS receives solicitations from attorneys who desire to represent NHRS as lead plaintiff in these class action lawsuits.

### **B. Appointment as Lead Plaintiff**

Under the federal Private Securities Litigation Reform Act of 1995, federal courts are required to appoint one or more members of the class to serve as the lead plaintiff(s) in securities class action lawsuits. The Act provides a presumption that the lead plaintiff is to be the investor with the largest financial interest in the relief sought by the lawsuit. Typically, this means that those investors with the largest holdings in the defendant issuer's stock have the right to serve as the lead plaintiffs. Generally, in most class action lawsuits, several other investors with substantially larger assets than NHRS will hold more shares in the defendant issuer than NHRS and therefore have a larger financial interest in the relief sought. Accordingly, in most of these lawsuits, an investor other than NHRS will have the right to serve as the lead plaintiff.

### **C. Financial Risks of Serving as Lead Plaintiff**

There are financial risks that result from serving as a lead plaintiff in a securities class action lawsuit. Serving as lead plaintiff may have financial risks if the litigation is unsuccessful. Unless the lead plaintiff successfully negotiates an allocation of potential financial risk with other named plaintiffs, the lead plaintiff could bear the costs, expenses or, potentially, attorneys' fees of the defendant if the litigation is unsuccessful or the court grants sanctions pursuant to Rule 11 of the *Federal Rules of Civil Procedure*. Regardless of the outcome of the lawsuit, other class members



could potentially pursue claims against the lead plaintiff for inadequately representing their interests. In return for accepting these financial risks, the lead plaintiff does not receive any additional financial benefit from serving as the lead plaintiff, but, instead, shares any final judgment or settlement with all class members on an equal, per share basis. However, the lead plaintiff may also recover its attorneys' fees, costs and expenses if the lawsuit is successful or a settlement is obtained.

#### **D. NHRS Policy**

Based on the issues enumerated above, it is the policy of NHRS not to serve as the lead plaintiff in securities class action litigation unless NHRS is among the largest shareholders of the defendant issuer and serving as the lead plaintiff is determined by the Board of Trustees to be in the best interest of NHRS.

# **Private Markets Disclosure Policy**

# **New Hampshire Retirement System Private Markets Disclosure Policy Amended by NHRS Board of Trustees on June 13, 2017**

## **I. Purpose and Intent**

The New Hampshire Retirement System (“NHRS”) is committed to providing the highest degree of public disclosure and transparency of its financial operations not in conflict with its paramount fiduciary duty to act solely in the interest of its members and beneficiaries and to prudently maximize a risk-adjusted return on NHRS assets for their exclusive benefit. With respect to those private market investments (including these asset types: all private equity, absolute return, and non-direct real estate funds) in which NHRS is invested, and recognizing its general public obligation to be transparent and accountable subject to that fiduciary duty of loyalty it owes to its members and beneficiaries, NHRS’s disclosure policy is guided by the following principles:

1. The fiduciary duty of NHRS is to prudently maximize a risk-adjusted return on fund assets solely in the interest of and for the exclusive benefit of its members and beneficiaries.
2. NHRS’s Board of Trustees and Independent Investment Committee (IIC) manage NHRS’s investments with as much transparency as possible, recognizing it is a public body accountable in the first instance to its members and then also to the general public.
3. However, when the general policy favoring transparency is seen to conflict with the Board’s and IIC’s express fiduciary duty to act solely in the interest of and for the exclusive benefit of its members, it must act in the best interests of its members.

## **II. Policy**

**A. Quarterly Disclosure.** On balance, and upon careful consideration, the Board has concluded that public disclosure of the periodic investment performance by asset type of those private market investment funds in which NHRS is invested would neither interfere with the operation of those funds nor impede the fiduciary duty owed to NHRS’s members and beneficiaries. Accordingly, NHRS, on a quarterly basis, shall compile, post on its website, and make available for public inspection a report disclosing private market investment information, as outlined below:

1. Date of commitment and the total amount committed for each fund;
2. The type of fund (e.g. buyout, mezzanine, venture, real estate);
3. A column for relationship disclosure (any connection that investment staff or any Trustee or investment committee member has with a partnership or the general partners will be disclosed in detail in footnotes);

4. The asset type internal rate of return (IRR);
5. The asset type contribution amount;
6. The asset type distribution amount; and
7. The asset type market value.

These disclosures will provide substantial relevant information to members, their beneficiaries, and the public. They provide the financial extent of NHRS's private market program, and of each asset type, their scale relative to the total portfolio, the names and numbers of partnerships in which NHRS is invested, their type, whether NHRS is invested in more than one generation of a fund, where the program for each asset type stands relative to its allocation (over-invested or under-invested), how much over-commitment has been made to achieve the invested target (potential liability), what the quarterly cash flows are with regard to the program, the return (success, or lack thereof) of the program, and whether cash is being paid out (invested) or received, on balance. If any funds are bought or sold, that will also be apparent. All transactions, including other important information, are reported through the IIC and captured in the meeting minutes.

**B. Nondisclosure.** The following information will not be regularly disclosed by NHRS, subject to the exception provided below:

NHRS does not provide information publicly on the internal rates of return on individual partnerships in the portfolio and does not provide sufficient detail for the public to calculate it. This is consistent with the fact that NHRS does not provide returns on individual public investments such as common stocks or bonds held in portfolios. This level of detail is not needed for our constituents to evaluate the performance of the portfolio, or the program, and it distracts attention from the information NHRS does provide which is sufficient to assess success, risks and other relevant program metrics.

As to that additional information specifically concerning underlying investments or portfolio companies in NHRS private market investment portfolios, NHRS recognizes a material adverse effect on the ability of such funds to succeed in their investment activities, objectives, and negotiations that would result from public disclosure of such confidential and proprietary financial information. The business impairment of such compromised funds of course would immediately translate to a direct and negative impact on the economic interests of NHRS, its members and beneficiaries.

In addition to causing substantial harm to the competitive position of those funds and portfolio companies in which NHRS is invested, such public disclosure would likely result in degraded reporting to NHRS of that financial information and reduced opportunities to participate in future private market investments. Therefore, such confidential and proprietary information as may detail a fund's portfolio companies, underlying investments, investment management and sponsor fees, or otherwise exist

outside the scope of those items included in the quarterly report described above are exempt from public inspection and may not be disclosed.

Exception: In the event of a valid Right to Know request submitted to NHRS pursuant to RSA 91-A, the Board of Trustees may authorize NHRS staff, after consultation with the IIC, to disclose any information that would otherwise not be subject to disclosure (as noted above) if NHRS staff either previously has or, in response to such an information request, subsequently does confirm and document through direct communication with the private market investment sponsor/manager that such information may be disclosed by NHRS.

## **SECTION II**

# **Accountability Matrix**

# New Hampshire Retirement System Accountability Matrix

## Total Fund Investment Policy<sup>1</sup>

Function	Independent Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant	Actuary
1. Establishing (and modifying when necessary) investment policy, which includes risk tolerances and investment objectives	Recommends 100-A:14-b, III; A:15, I-a(b) & VII(c)	Decides 100-A:15, I; I-a(b) & (c) & VII(c)	Provides advice/analysis		Provides advice/analysis	Provides input
2. Establishing asset allocation targets and ranges	Recommends A:15, VII(c)(2)	Decides A:15, VII(c)(2)	Provides advice/analysis		Provides advice/analysis	
3. Determining Investment Committee's philosophy for investing assets	Decides A:15, VII(a)	Reviews A:15, VII(a)	Provides advice/analysis			
4. Rebalancing procedures	Decides A:15, I, II-a(b) & VII(c)(2)	Reviews A:15, I-a(c) & VII(c)(2)	Provides advice/analysis		Provides advice/analysis	
5. Monitoring policy compliance	Reviews and assigns responsibility A:15, I-a(a)	Reviews A:15, I-a(a)	Oversees		Serves as a double check	
6. Ensuring statutory compliance of investments parameters	Reviews quarterly A:15, I-a(a)	Reviews annually A:15, I-a(a)	Monitors compliance	Reviews for legal compliance	Abides by parameters	
7. Monitoring Total Fund performance	Reviews and reports to the Board quarterly A:15, II-a(c)	Reviews quarterly IIC reports A:15, II-a(c)	Provides advice/analysis		Provides advice/analysis	
8. Completing comprehensive annual investment report (as outlined in HB 1645)	Prepares A:15, VII	Approves A:15, VII	Provides assistance	Provides assistance	Provides assistance	Provides assistance

<sup>1</sup> Items in red are responsibilities dictated by statute.

## Domestic Equity<sup>2</sup>

Function	Independent Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant
1. Determining domestic equity asset class guidelines (active vs. passive, style, limitations, etc.)	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
2. Setting and reviewing domestic equity benchmarks	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Provides Advice/Analysis		Provides advice/analysis
3. Determining number and types of managers for each asset class	Decides A:14-b, III; A:15, II-a(b)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
4. Selecting external investment managers	Decides A:14-b, III; A:15, II-a(b)	Monitors A:15, I-a(a)	Recommends	Reviews contracts	Influences/recommends
5. Monitoring compliance with asset class strategy and guidelines	Reviews and assigns responsibility A:15, VII(c)(3)	Reviews A:15, I-a(a) & VII(c)(3)	Oversees		Serves as a double check
6. Reviewing asset class performance	Reviews and reports to the Board quarterly A:15, II-a(c)	Reviews quarterly IIC reports A:15, II-a(c)	Provides advice/analysis		Provides advice/analysis
7. Monitoring performance of external investment managers	Reviews on on-going basis A:14-b, III; A:15, VII(c)(3)	Reviews quarterly reports A:15, II-a(c)	Completes monitoring activities		Completes monitoring activities

<sup>2</sup> Items in red are responsibilities dictated by statute.



### Non-U.S. Equity<sup>3</sup>

Function	Independent Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant
1. Determining international equity asset class guidelines (active vs. passive, style, limitations, etc.)	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
2. Setting and reviewing international equity benchmarks	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Recommends		Provides advice/analysis
3. Determining number and types of managers for each asset class	Decides A:14-b, III; A:15, II-a(b)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
4. Selecting external investment managers	Decides A:14-b, III; A:15, II-a(b)	Monitors A:15, I-a(a)	Recommends	Reviews contracts	Influences/recommends
5. Monitoring compliance with asset class strategy and guidelines	Reviews and assigns responsibility A:15, I-a(a)	Reviews A:15, I-a(a)	Oversees		Serves as a double check
6. Reviewing performance of the asset class	Reviews and reports to the Board quarterly A:15, II-a(c)	Reviews quarterly IIC reports A:15, II-a(c)	Provides advice/analysis		Provides advice/analysis
7. Monitoring performance of external investment managers	Reviews on on-going basis A:14-b, III; A:15, VII(c)(3)	Reviews quarterly reports A:15, II-a(c)	Completes monitoring activities		Completes monitoring activities

<sup>3</sup> Items in red are responsibilities dictated by statute.

## Fixed Income<sup>4</sup>

Function	Independent Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant
1. Determining fixed income asset class guidelines (active vs. passive, style, limitations, etc.)	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
2. Setting and reviewing asset class benchmarks	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Recommends		Provides advice/analysis
3. Determining number and types of managers for each asset class	Decides A:14-b, III; A:15, II-a(b)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
4. Selecting external investment managers	Decides A:14-b, III; A:15, II-a(b)	Monitors A:15, I-a(a)	Recommends	Reviews contracts	Influences/ Recommends
5. Monitoring compliance with asset class strategy and guidelines	Reviews and assigns responsibility A:15, VII(c)(3)	Reviews A:15, VII(c)(3)	Oversees		Serves as a double check
6. Reviewing performance of asset classes	Reviews and reports to the Board quarterly A:15, II-a(c)	Reviews quarterly IIC reports A:15, II-a(c)	Provides advice/analysis		Provides advice/analysis
7. Monitoring performance of external investment managers	Reviews on on-going basis A:14-b, III; A:15, VII(c)(3)	Reviews quarterly reports A:15, II-a(c)	Completes monitoring activities		Completes monitoring activities

<sup>4</sup> Items in red are responsibilities dictated by statute.

## Real Estate <sup>5</sup>

Function	Independent Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant
1. Determining real estate asset class guidelines (diversification, style, limitations, etc.)	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
2. Setting and reviewing asset class benchmarks	Decides A:14-b, III; A:15, VII	Reviews A:15, VII	Provides advice/analysis		Provides advice/analysis
3. Determining number and types of managers for the asset class	Decides A:14-b, III; A:15, II-a(b)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
4. Selecting external investment management firms	Decides A:14-b, III; A:15, II-a(b)	Monitors A:15, I-a(a)	Influences	Reviews contracts	Influences
5. Monitoring compliance with policy	Reviews and assigns responsibility	Reviews A:15, I-a(a)	Oversees		Serves as a double check
6. Reviewing performance of the asset class	Reviews and reports to the Board quarterly A:15, II-a(c)	Reviews quarterly IIC reports A:15, II-a(c)	Provides advice/analysis		Provides advice/analysis
7. Monitoring performance of external investment managers	Reviews on on-going basis A:14-b, III; A:15, VII(c)(3)	Reviews quarterly reports A:15, II-a(c)	Completes monitoring activities		Completes monitoring activities
8. Valuation of real estate	Reviews quarterly A:15, I-a(b)(3); A:15, VII(c)(3)	Monitors A:15, I-a(a)	Ensures valuations are completed		Assists as needed
9. Executing purchase and sale agreements on real estate	Reviews quarterly A:15, II-a(b) & VII(c)(3)		Ensures valuations are completed	Reviews contracts	

<sup>5</sup> Items in red are responsibilities dictated by statute.

## Alternatives Investments Policy<sup>6</sup>

Function	Independent Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant
1. Determining alternative asset class guidelines (style, diversification, limitations, etc.)	Decides A:15, I-a(a)	Reviews A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
2. Setting and reviewing asset class benchmarks	Decides A:14-b, III; A:15, VII	Reviews A:15, VII	Provides advice/analysis		Provides advice/analysis
3. Approving number and types of external managers	Decides A:14-b, III; A:15, II-a(b)	Monitors A:15, I-a(a)	Provides advice/analysis		Provides advice/analysis
4. Selecting external investment management firms	Decides A:14-b, III; A:15, II-a(b)	Monitors A:15, I-a(a)	Influences	Reviews contracts	Influences
5. Monitoring compliance with policy	Reviews and assigns responsibility A:15, VII(c)(3)	Reviews A:15, I-a(a)	Oversees		Serves as a double check
6. Reviewing performance of the asset class	Reviews and reports to the Board quarterly A:15, II-a(c)	Reviews quarterly IIC reports A:15, II-a(c)	Provides advice/analysis		Provides advice/analysis
7. Monitoring performance of external investment managers	Reviews on on-going basis A:14-b, III; A:15, VII(c)(3)	Reviews quarterly reports A:15, II-a(c)	Completes monitoring activities		Completes monitoring activities
8. Valuation of private equity	Reviews quarterly A:15, I-a(b)(3); A:15, VII(c)(3)		Ensures valuations are completed		Assists as needed
9. Executing partnership agreements on private equity	Reviews quarterly A:14-b, III; A:15, II-a(b)		Ensures agreements are executed	Reviews agreements	

<sup>6</sup> Items in red are responsibilities dictated by statute.

### Selection and Monitoring of Investment Managers<sup>7</sup>

<b>Function</b>	<b>Investment Committee</b>	<b>Board</b>	<b>Director of Investments and Investment Staff</b>	<b>Legal Counsel</b>	<b>Investment Consultant</b>
1. Selecting specific external investment management firms	Decides A:14-b, III; A:15, II-a(b)	Monitors A:15, I-a(a)	Influences	Reviews contracts	Influences
2. Conducting due diligence meetings and activities	Reviews staff/consultants A:15, I-a(a); A:15, VII(c)(3); A:15, (c)(3)		Oversees due diligence		Completes due diligence activities
3. Developing individual manager guidelines			Approves	Reviews	Provides advice/analysis
4. Executing investment manager contracts			Approves	Recommends	Provides assistance
5. Monitoring performance of external investment managers	Reviews on on-going basis A:14-b, III; A:15, VII(c)(3)	Reviews quarterly reports A:15, II-a(c)	Completes monitoring activities		Completes monitoring activities

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<sup>7</sup> Items in red are responsibilities dictated by statute.

### Selection of Other Service Providers<sup>8</sup>

Function	Independent Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant
1. Selecting (and periodically reviewing) custodian banks	Decides A:15, II-a(a)	Monitors A:15, I-a(a)	Influences	Reviews contract	Influences
2. Selecting (and periodically reviewing) general investment consultant	Recommends A:14-b, III	Decides A:15, II(c)	Provides input	Reviews contract	
3. Selecting (and periodically reviewing) specialty investment consultants	Recommends A:14-b, III	Decides A:15, II(c)	Provides input	Reviews contract	
4. Selecting (and periodically reviewing) the fund's actuary		Decides A:15, II(a)	Influences	Reviews contract	
5. Selecting (and periodically reviewing) outside legal counsel for investment issues		Decides A:15, IV	Influences	Recommends	
6. Selecting (and periodically reviewing) proxy voting service provider		Approves A:15, I-a(a)	Recommends	Reviews contract	Influences
7. Selecting (and periodically reviewing) transition managers	Decides A:14-b, III; A:15, II-a(b)	Reviews A:15, I-a(a)	Recommends	Reviews contract	Influences
8. Selecting (and periodically reviewing) transaction analysis provider	Decides A:15, II-a(b)	Reviews A:15, I-a(a)	Recommends	Reviews contract	Influences

<sup>8</sup> Items in red are responsibilities dictated by statute.

## Proxy Voting

<b>Function</b>	<b>Investment Committee</b>	<b>Board</b>	<b>Executive Director or Director of Investments</b>	<b>Legal Counsel</b>	<b>Investment Consultant</b>
1. Setting (and modifying) proxy voting policy		Decides A:15, I-a(a)	Recommends	Provides input	Provides advice/analysis
2. Identifying proxy voting issues and positions		Decides A:15, I-a(a)	Provides advice/analysis	Provides input	Provides advice/analysis
3. Monitoring proxy voting activity		Reviews annually A:15, I-a(a)	Prepares		
4. Approving exceptions to the policy		Reviews annually A:15, I-a(a)	Oversees/recommends	Provides input	Provides advice/analysis
5. Ensuring policy compliance		Reviews annually A:15, I-a(a)	Oversees	Provides input	Provides advice/analysis

## Securities Lending

<b>Function</b>	<b>Investment Committee</b>	<b>Board</b>	<b>Executive Director or Director of Investments</b>	<b>Legal Counsel</b>	<b>Investment Consultant</b>
1. Setting (and modifying) securities lending policy	Provides Input A:15, I-a(a)	Decides A:15, I-a(a)	Provides advice/analysis	Provides input	Provides advice/analysis
2. Creating and updating securities lending guidelines	Approves A:15, I-a(a)	Reviews A:15, I-a(a)	Recommends	Provides input	Provides advice/analysis
3. Monitoring securities lending activity	Reviews and assigns responsibility A:15, I-a(a)	Reviews A:15, I-a(a)	Oversees	Provides input	Provides advice/analysis
4. Ensuring policy compliance	Reviews and assigns responsibility A:15, I-a(a)	Reviews A:15, I-a(a)	Oversees	Provides input	Provides advice/analysis



## **SECTION III**

# **Independent Investment Committee Charter**

## **New Hampshire Retirement System Independent Investment Committee Charter**

**Revisions approved at the November 22, 2019 Independent Investment Committee meeting.**

### **Purpose**

The Independent Investment Committee (IIC) was established by Chapter 300 of the 2008 Session Laws with an effective date of January 1, 2009. The purpose of the IIC is to invest the funds of the New Hampshire Retirement System (“NHRS” or “System”) in accordance with the policies approved by the NHRS Board of Trustees (the Board). The IIC will also make recommendations to the Board on investment policy, prepare a comprehensive annual investment report, and provide quarterly investment program updates to the Board.

As fiduciaries, the IIC members must exercise the highest degree of care, skill, prudence, and loyalty to beneficiaries of the trust funds.

### **Authority**

The IIC is granted authority as outlined in statute, as may be amended from time to time, and as summarized below. The IIC has the authority to invest and reinvest fund assets in accordance with the policy set by the Board, and in recognition of the assumed rate of return set by the Board. Furthermore, the IIC has the authority to hire and terminate investment managers, and the custodian, and other related investment agents, consistent with statute.

The IIC has the authority to review research data, historical information, consultants’ reports, and other documents it deems reasonably necessary to form an opinion on the capabilities of the investment managers and related agents, custodian, and investment consultant of the fund. The Committee is allowed to ask any questions of the firms that are relevant to the services they perform on behalf of the trust funds.

The IIC also has the authority to call upon the NHRS Executive Director, Director of Investments or his or her designee, legal counsel, investment consultant, actuary, and auditor to assist it in carrying out its responsibilities.

Implementation of IIC decisions and directives is delegated to NHRS staff.

### **Composition**

The IIC consists of not more than 5 members. Three members, who shall not be members of the NHRS Board, will be appointed by the Governor with the consent of the Executive Council. Up to two members, who will be members the NHRS Board, will be appointed by the chairperson of the NHRS Board of Trustees. All members of the IIC shall have substantial experience in the field of institutional investments or finance (beyond experience as a trustee of the New Hampshire Retirement System).

### **Meetings**

The IIC shall set an annual calendar and generally meet monthly. All committee members are expected to attend each meeting in person. Meetings will be held in accordance with New Hampshire open meeting requirements under RSA 91-A. The Committee may invite members of staff or others to attend meetings and provide pertinent information, as necessary. Meeting agendas will be prepared and provided in advance to Committee members, along with appropriate briefing materials. Minutes of the meeting discussions and decisions will be prepared by staff. Any Trustee may attend the Committee's meetings.

### **Staffing**

The Director of Investments will act as staff liaison to the Committee. NHRS staff will assist the Committee in the discharge of its responsibilities.

### **Statutory Obligation to Act as Fiduciary (excerpts from RSA 100-A:15):**

"I-a.(a) A trustee, independent investment committee member, or other fiduciary shall discharge duties with respect to the retirement system:

- (1) Solely in the interest of the participants and beneficiaries;
- (2) For the exclusive purpose of providing benefits to participants and beneficiaries and paying reasonable expenses of administering the system;
- (3) With the care, skill, and caution under the circumstances then prevailing which a prudent person acting in a like capacity and familiar with those matters would use in the conduct of an activity of like character and purpose;
- (4) Impartially, taking into account any differing interests of participants and beneficiaries;
- (5) Incurring only costs that are appropriate and reasonable; and
- (6) In accordance with a good-faith interpretation of the law governing the retirement system.

(b) In investing and managing assets of the retirement system pursuant to subparagraph (a), a trustee or independent investment committee member with authority to invest and manage assets:

- (1) Shall consider among other circumstances:
  - (A) General economic conditions;
  - (B) The possible effect of inflation or deflation;
  - (C) The role that each investment or course of action plays within the overall portfolio of the retirement system;
  - (D) The expected total return from income and the appreciation of capital;
  - (E) Needs for liquidity, regularity of income, and preservation or appreciation of capital; and

- (F) The adequacy of funding for the system based on reasonable actuarial factors;
- (2) Shall diversify the investments of the retirement system unless the trustee or independent investment committee member reasonably determines that, because of special circumstances, it is clearly prudent not to do so;
  - (3) Shall make a reasonable effort to verify facts relevant to the investment and management of assets of a retirement system; and
  - (4) May invest in any kind of property or type of investment consistent with this section.

(c) The board of trustees shall adopt a statement of investment objectives and policy for the retirement system as provided in subparagraph VII(c).

I-b. Paragraph 1-a shall apply to all board members, independent investment committee members, and other fiduciaries, as well as staff and vendors to the extent they exercise any discretionary authority or discretionary control respecting management of the retirement system or exercise any authority or control respecting management or disposition of its assets, or they render investment advice for a fee or other compensation, direct or indirect, with respect to any monies or other property of the retirement system, or have any authority or responsibility to do so, or they have any discretionary authority or discretionary responsibility in the administration of the retirement system.

I-c. The fiduciary obligations of the members of the board of trustees and the independent investment committee are paramount to any other interest a trustee or independent investment committee member may have arising from another role or position that he or she holds, including the position which qualified the person for appointment to the board of trustees or independent investment committee.”

### **Responsibilities of the Committee**

The IIC has the following responsibilities:

- Determine the IIC’s philosophy for investing the assets of the System;
- Recommend changes in the Investment Policy to the Board;
- Review, with the assistance of the investment consultant or Director of Investments or his or her designee, the performance of the fund, asset classes, and investment managers versus the benchmarks set forth in the Investment Policy;
- Select and, as appropriate, terminate the investment managers or related investment agents, consistent with statute;
- Develop appropriate benchmarks for investment managers;
- Appoint and periodically review a custodian bank for the assets;
- Report to the Board at least quarterly on the management, investment, and reinvestment activities of the IIC;
- Recommend an investment consultant to the Board;

- Prepare a Comprehensive Annual Investment Report as outlined in statute for review and approval by the Board;
- Suggest legislative changes to the Board; and,
- Maintain an orientation and education program for Committee members.

### **Responsibilities of the Committee Members**

Individual Committee members have the following responsibilities:

- Discharge duties solely in the interest of the members and beneficiaries and for their exclusive benefit;
- Observe relevant policies and procedures of NHRS such as those covering Code of Ethics, disclosure, confidentiality, travel, and communications;
- Observe appropriate distinctions in roles and responsibilities with NHRS staff, service providers, IIC members and Trustees;
- Be informed about the System’s investment policies and remain current on developments in the pension and public fund industry;
- Work constructively with other IIC members ;
- Interact appropriately with NHRS staff, outside service providers, and the full Board
- Be prepared and regularly attend IIC meetings;
- Respect open meeting laws by not convening meetings with fellow IIC members to discuss NHRS business outside the properly noticed meetings;
- Maintain co-fiduciary responsibility; and,
- Live up to high ethical standards and avoid the appearance of impropriety.

### **Reporting to the NHRS Board of Trustees**

By statute the IIC is required to provide quarterly and annual investment reports to the Board.

The quarterly investment reports will be provided to the Board in advance of its scheduled meetings. They will include, at a minimum, the following:

- Review of the performance of the total fund, asset classes, and investment managers’ versus benchmarks;
- Comparison of the fund’s actual asset allocations versus target allocations, with explanation of deviations; and,
- Summary of actions taken which involved moving investment proceeds or assets during the period (such as liquidity events, rebalancing, manager hire or termination).

In addition to the items above, supplemental information for the annual period ending June 30th will be provided to the Board. Each year the IIC will also present the Comprehensive Annual Investment Report. It will include, at a minimum, the following:

- A description of the IIC’s investment philosophy, including a summary of any significant changes to that philosophy that have occurred since the last annual report;
- A review of the Investment Policy with any recommended changes, including asset class target allocations and allowable ranges;
- A summary of compliance with the Investment Policy, including an explanation for exceptions and steps taken to return to compliance;

- An analysis of returns on investment by investment category;
- Summary of changes to investment structure or portfolio managers;
- An assessment of the current asset structure to determine if it will allow the funds to reach its long range objectives, and any recommended changes;
- Statement of investment costs;
- Summary of any other relevant investment program developments, including those affecting securities lending, proxy voting, divestment, etc.;
- Any suggested changes in legislation which are requested to better serve the members of the System; and,
- Other items as required by statute

Upon approval of this Comprehensive Annual Investment Report by the Board, it will be submitted to the President of the Senate, the Speaker of the House, and the Governor.

As the IIC is also responsible for recommending an investment consultant to the Board of Trustees, the IIC will provide a report, upon request from the Board, which may include any of the following:

- An assessment of the current investment consultant;
- A recommendation to retain, competitively review, or terminate the investment consultant; and,
- An assessment of proposals from investment consultants, including a recommendation for an investment consultant.

### **Governance**

The IIC will elect a chairperson for the term of the person on the IIC, or until a successor is chosen, from among the Committee members who will have the following responsibilities:

- Communicating with the chairperson of the NHRS Board of Trustees, the NHRS Executive Director, and the Director of Investments or his or her designee, on a regular basis;
- Setting the schedule and agendas for the meetings;
- Conducting the IIC meetings or appointing another IIC member to conduct them in his or her absence;
- Calling special or emergency meetings, when necessary;
- Enforcing the governing policies of the IIC; and,
- Scheduling and attending new member orientations.

## **SECTION IV**

# **Asset Class Guidelines**

## Domestic Equity Investment Guidelines

**Purpose:** The allocation to Domestic Equity provides the assets of the System with participation in the largest economy of the world. A diversified allocation, across style and capitalization, to domestic equity should assist in maximizing long-term total returns.

**Allocation:** The current target allocation to Domestic Equity is 30% of the Total Fund, with an allowable range of 20 – 40%.

**Structure:** The Domestic Equity portfolio is structured to incorporate both active and passive management. Active management is focused where there is the greatest potential for alpha generation. Passive management is focused where alpha generation has been demonstrated to be difficult to obtain. Therefore, the goal of the passive allocation is to gain low-cost efficient beta exposure. The portfolio is focused to increase exposure to those areas of the capital markets where it is more likely that active management will add value.

Component	Allocation Target*
Large Cap, Passive	Minimum of 50%

\* As a percentage of Domestic Equity

**Custody:** All Domestic Equity securities shall be maintained in the custody and safekeeping of the System’s master custodial bank. Commingled fund assets, however, are held in custody at the discretion of the fund manager.

**Use of 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 account pursuing the same investment objectives. However, commingled investment funds cannot customize investment guidelines to the specific needs of individual clients. The Independent Investment Committee (IIC) is willing to accept the policies of such funds in order to achieve the lower costs and diversification benefits of commingled funds, as long as the commingled guidelines are consistent with the spirit of those specified herein and the underlying individual investment manager portfolio-level guidelines. The IIC relies on Staff and the Investment Consultant to assess and monitor the investment policies of any commingled fund used by the System.

**Manager Guidelines for Separate Accounts:** Portfolio-level guidelines are negotiated with each IIC-approved investment manager with the purpose of establishing agreed-upon parameters for the management of assets. These guidelines are generally based on the guidelines for the respective manager’s composite portfolio and investment style; are reviewed by staff in collaboration with the System’s Investment Consultant; and are subject to execution by the Director of Investments and the manager prior to implementation. Each manager will be granted full discretion within the context of their respective portfolio-level negotiated guidelines.

Managers are prohibited from deviating from their respective portfolio-level guidelines without prior written approval from the Director of Investments. Any guideline violation must be reported by the manager in writing as soon as it is discovered (within 24 hours). Recommendations for guideline revisions are to be provided to the Director of Investments in



writing, and shall include the rationale for the changes and all relevant research. Any guideline revision requests are reviewed by the Director of Investments and the System's Investment Consultant prior to approval. All substantive changes to manager guidelines will be reported to the IIC at the next meeting.

**Permissible Investments:** All eligible securities shall be traded in domestic markets and be of a class listed on a national securities exchange or traded in the over-the-counter market.

Permissible investments are defined within individual manager portfolio-level guidelines, and generally include:

- Common stocks, preferred stocks, and securities with equity characteristics (including, but not limited to, American Depositary Receipts and Shares, warrants, and rights) of U.S. and foreign issuers
- European Depositary Receipts listed and traded on major U.S. exchanges and in over-the-counter markets
- Securities convertible into common stocks
- 144A securities
- Futures contracts
- Exchange traded funds and similar vehicles
- Closed-end funds
- Private placements, Secondary Offerings, IPO investments and offers for sale
- Real Estate Investment Trusts and Income Trusts
- Short-term fixed income securities and cash equivalents

**Prohibited Investments:** Any security or strategy not specifically permitted in the respective manager portfolio guidelines requires written permission from the Director of Investments prior to purchase.

Prohibited investments are defined within individual manager portfolio-level guidelines, and generally include:

- Short sales
- Margin transactions
- Use of leverage
- Stock in non-public corporations, private placements or other non-marketable issues
- Specialized investment vehicles
- Direct investments in commodities
- Direct investments in real estate
- Venture Capital investments
- Lettered stock
- Foreign securities other than those noted in *Permissible Investments* above
- Direct investments in oil, gas, or other mineral exploration or development programs

**Concentration Limits:**

- The System shall not own more than 20% of any commingled investment fund
- The System shall not own more than 5% of any single security's outstanding shares

## Non-U.S. Equity Investment Guidelines

**Purpose:** The allocation to Non-U.S. Equity serves to diversify the assets of the System across the world's economies. A diversified allocation, across style and capitalization, to Non-U.S. equity should assist in maximizing long-term total returns.

**Allocation:** The current target allocation to Non-U.S. Equity is 20% of the Total Fund, with an allowable range of 15 – 25%.

**Structure:** The Non-U.S. Equity portfolio is currently 100% actively managed and broadly diversified across global economies, market sectors, capitalization, and securities. Active management is focused where there is the greatest potential for alpha generation. Passive management is focused where alpha generation has been demonstrated to be difficult to obtain while also allowing the ability to gain low-cost efficient beta exposure. Passive management may be utilized if determined to be beneficial by the Independent Investment Committee (IIC).

Component	Allocation Target*
Developed Markets	Minimum of 75%

\* As a percentage of Non-U.S. Equity

**Custody:** All Non-U.S. Equity securities shall be maintained in the custody and safekeeping of the System's master custodial bank. Commingled fund assets, however, are held in custody at the discretion of the fund manager.

**Use of 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 account pursuing the same investment objectives. However, commingled investment funds cannot customize investment guidelines to the specific needs of individual clients. The IIC is willing to accept the policies of such funds in order to achieve the lower costs and diversification benefits of commingled funds, as long as the commingled guidelines are consistent with the spirit of those specified herein and the underlying individual investment manager portfolio-level guidelines. The IIC relies on Staff and the Investment Consultant to assess and monitor the investment policies of any commingled fund used by the System.

**Manager Guidelines for Separate Accounts:** Portfolio-level guidelines are negotiated with each IIC-approved investment manager with the purpose of establishing agreed-upon parameters for the management of assets. These guidelines are generally based on the guidelines for the respective manager's composite portfolio and investment style; are reviewed by staff in collaboration with the System's Investment Consultant; and are subject to execution by the Director of Investments and the manager prior to implementation. Each manager will be granted full discretion within the context of their respective portfolio-level negotiated guidelines.

Managers are prohibited from deviating from their respective portfolio-level guidelines without prior written approval from the Director of Investments. Any guideline violation must be reported by the manager in writing as soon as it is discovered (within 24 hours). Recommendations for guideline revisions are to be provided to the Director of Investments in

writing, and shall include the rationale for the changes and all relevant research. Any guideline revision requests are reviewed by the Director of Investments and the System's Investment Consultant prior to approval. All substantive changes to manager guidelines will be reported to the IIC at the next meeting.

**Permissible Investments:** All eligible securities shall be traded on globally recognized security exchanges or over-the-counter markets.

Permissible investments are defined within individual manager portfolio-level guidelines, and generally include:

- Common stocks; preferred stocks; securities convertible into or exchangeable for common stock; rights and warrants to acquire such securities; and substantially similar forms of equity with comparable risk, of companies domiciled, listed on exchanges, or having their principal activities in countries that comprise respective manager benchmarks.
- Global Depository Receipts, American Depository Receipts, and other depository arrangements
- Real Estate Investment Trusts and Income Trusts
- Exchange traded funds and similar vehicles
- Shares obtained through Initial Public Offerings
- 144A securities
- Forward exchange contracts/currency derivatives, when used to protect the U.S. Dollar value of the portfolio, dampen portfolio volatility, or to facilitate the settlement of securities
- Short-term fixed income securities and cash equivalents
- Equity index futures, equity linked notes and currency contracts

**Prohibited Investments:** Any security or strategy not specifically permitted in the respective manager portfolio guidelines requires written permission from the Director of Investments prior to purchase.

Prohibited investments are defined within individual manager portfolio-level guidelines, and generally include:

- Short sales
- Margin transactions
- Use of leverage
- Stock in non-public corporations, private placements or other non-marketable issues
- Specialized investment vehicles
- Direct investments in commodities
- Direct investment in real estate
- Venture Capital investments
- Lettered stock
- Derivative contracts, aside from those referenced above in *Permissible Investments*
- Direct investments in oil, gas, or other mineral exploration or development programs

**Concentration Limits:**

- The System shall not own more than 20% of any commingled investment fund
- The System shall not own more than 5% of any single security's outstanding shares

## Fixed Income Investment Guidelines

**Purpose:** The allocation to Fixed Income serves to provide income and potentially reduce volatility experienced in the equity markets, as well as offer an opportunity for return enhancement by investing in selected market sectors (for example, investment grade corporate bonds and high yield debt). A portion of the Fixed Income allocation is expected to be invested in U.S. Treasury securities or other government-related issues, which will potentially reduce risk within the portfolio.

**Allocation:** The current target allocation to Fixed Income is 25% of the Total Fund, with an allowable range of 20% – 30%.

**Structure:** The Fixed Income portfolio is currently 100% actively managed, as fixed income has been identified as an area in the capital markets where it is more likely that active management will add value. The portfolio is broadly diversified across global markets, sectors, securities and maturities. Active management is focused where there is the greatest potential for alpha generation. Passive management is focused where alpha generation has been demonstrated to be difficult to obtain while also allowing the ability to gain low-cost efficient beta exposure. Passive management may be utilized if determined to be beneficial by the Independent Investment Committee (IIC).

Component	Allocation Target*
Core	Minimum of 60%

\* As a percentage of Fixed Income.

The Fixed Income Core component is defined as securities held within the Bloomberg Barclays U.S. Aggregate Index which measures the investment grade, U.S. dollar-denominated, fixed-rate taxable bond market. The index includes U.S. Treasuries, government-related and corporate securities, mortgage backed securities, asset backed securities, and commercial mortgage backed securities.

**Custody:** All Fixed Income securities shall be maintained in the custody and safekeeping of the System's master custodial bank. Commingled fund assets, however, are held in custody at the discretion of the fund manager.

**Use of 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 account pursuing the same investment objectives. However, commingled investment funds cannot customize investment guidelines to the specific needs of individual clients. The IIC is willing to accept the policies of such funds in order to achieve the lower costs and diversification benefits of commingled funds, as long as the commingled guidelines are consistent with the spirit of those specified herein and the underlying individual investment manager portfolio-level guidelines. The IIC relies on Staff and the Investment Consultant to assess and monitor the investment policies of any commingled fund used by the System.

**Manager Guidelines for Separate Accounts:** Portfolio-level guidelines are negotiated with each IIC-approved investment manager with the purpose of establishing agreed-upon parameters for the management of assets. These guidelines are generally based on the guidelines for the respective manager's composite portfolio and investment style; are reviewed by staff in collaboration with the System's Investment Consultant; and are subject to execution by the Director of Investments and the manager prior to implementation. Each manager will be granted full discretion within the context of their respective portfolio-level negotiated guidelines.

Managers are prohibited from deviating from their respective portfolio-level guidelines without prior written approval from the Director of Investments. Any guideline violation must be reported by the manager in writing as soon as it is discovered (within 24 hours). Recommendations for guideline revisions are to be provided to the Director of Investments in writing, and shall include the rationale for the changes and all relevant research. Any guideline revision requests are reviewed by Staff and the System's Investment Consultant prior to approval. All substantive changes to manager guidelines will be reported to the IIC at the next meeting.

**Permissible Investments:** Permissible investments are defined within individual manager portfolio-level guidelines, and generally include:

- U.S. Treasuries and U.S. Treasury Inflation Protected Securities
- Obligations of U.S. Federal Agencies and Government Sponsored Enterprises (GSEs)
- Foreign Sovereign Debt
- Small Business Administration Securities
- Municipal Securities
- Corporate Obligations, including but not limited to, Convertible Bonds
- Foreign Sovereign Debt
- Structured Securities including Asset Backed Securities; Collateralized Mortgage Obligations; Commercial Mortgage Backed Securities; Residential Mortgage Backed Securities
- Zero Coupon Securities
- Non-Sovereign Government/Non-Supranational Debt
- Emerging Market Debt
- Forward exchange contracts/currency derivatives, when used to protect the U.S. Dollar value of the portfolio, dampen portfolio volatility, or to facilitate the settlement of securities
- Private Placements, including 144A securities
- Exchange traded funds and similar vehicles
- Common Stock (shall not exceed 5% of the market value of any individual manager)
- Preferred Stock (shall not exceed 20% of the market value of any individual manager)
- Capital Securities
- Trust Preferred Securities
- Real Estate Investment Trust debt
- Short-term fixed income securities and cash equivalents

**Prohibited Investments:** Any security or strategy not specifically permitted in the respective manager portfolio guidelines requires written permission from the Director of Investments prior to purchase.

Prohibited investments are defined within individual manager portfolio-level guidelines, and generally include:

- Short Sales
- Margin transactions
- Use of leverage
- Specialized investment vehicles
- Direct investments in commodities
- Direct investments in real estate
- Venture Capital investments
- Direct investments in oil, gas, or other mineral exploration or development programs

**Concentration Limits:**

- The System shall not own more than 20% of any commingled investment fund
- The System shall not own more than 5% of any single security's outstanding shares



## Real Estate Investment Guidelines

**Purpose:** The primary objective of real-estate investing is to seek superior risk-adjusted returns. Secondly, these investments have had a low to negative correlation with stock and bond returns, thus potentially reducing the volatility of the return of the Total Fund. Moreover, real-estate investments, like some other real assets, have historically been a hedge against inflation.

**Allocation:** The current target allocation to Real Estate is 10% of the Total Fund, with an allowable range of 5 – 20%. The allocation is measured based upon the net equity value (gross real estate assets less any debt) of the portfolio.

In order to reach and maintain the target allocation, capital commitments in excess of 10% of the Total Fund may be made. The primary reasons for permitting such an over commitment are the staged capital calls for new closed-end investments, finite offering periods, and anticipated returns of capital.

**Structure:** The Real Estate portfolio consists of Strategic and Tactical investments as defined below. NHRS will maintain a Strategic Portfolio to provide its “keel in the water”, and a Tactical Portfolio in order to target expected superior risk adjusted returns.

Strategic Portfolio (Core/Core Plus): Strategic Portfolio investments are typically the lowest risk and return investments in the real estate sector and consist of commingled investment vehicles comprised of operating, substantially leased (typically 60% or more for Core Plus and 75% or more for Core) institutional quality properties. These investments include mostly well located traditional property types in developed markets. Traditional property types are office, apartment, retail, and industrial. These investments offer relatively high current income returns, and as a result, a greater predictability of total returns under normal market conditions. The income component typically represents a significant component of the expected total return.

Tactical Portfolio (Non-Core): Tactical Portfolio investments include those that have higher expected returns, and correspondingly higher expected risk, than the Strategic Portfolio. Examples of the higher return and risk strategies that may be included in the Tactical Portfolio include life cycle opportunities (e.g. leasing, renovation, development); business or operational opportunities (e.g. hotels, senior housing, investments in real estate operating companies); non-traditional property types (e.g. data centers, golf courses); and non-traditional formats (e.g. distressed assets, private-to-public market arbitrage). Opportunistic investment in real estate debt is also a permissible element of the Tactical Portfolio.

Real Estate Investment Trusts (REITs) may be included as part of the Strategic and/or Tactical portfolios.

<b>Portfolio Component</b>	<b>Allocation Target</b>	<b>U.S.</b>	<b>Ex -U.S.</b>
Strategic Portfolio	Minimum of 50%		
Tactical Portfolio	Maximum of 50%		
<b>Total Portfolio</b>	<b>100%</b>	<b>≥ 65%</b>	<b>≤ 35%</b>

**Implementation:** A manager (“Manager”) has been retained as a “manager of managers” with full and complete discretion and authority with respect to the selection and management of investments. Currently, the Manager is Townsend Holdings LLC (d/b/a) The Townsend Group (“Townsend”)

The Manager is responsible for the due diligence, selection, review, management and reporting of the Real Estate program. It will not acquire or manage assets directly but will select investments and provide oversight for assets managed by other third-party investment managers. The Manager shall prepare a periodic (annually at a minimum) Real Estate Investment Plan that shall set forth the implementation and management plans for the Real Estate allocation. The NHRS Independent Investment Committee (IIC) will review and annually approve the Real Estate Investment Plan.

The Manager shall make presentations to the IIC, at a minimum, on a semi-annual basis. In addition, the Manager will provide a formal update to Staff, at a minimum, on a quarterly basis.

Staff will provide oversight of the Manager and serve as a liaison between the IIC and the Manager. Staff is responsible for coordinating with the Manager, custodian, consultant(s) and legal counsel to implement and administer the Real Estate program, including the coordination of information between these parties and the management of funding relative to the investments. Staff will facilitate any other duties with the Manager relative to the NHRS Real Estate program, including the implementation of IIC actions.

**Custody:** REIT securities shall be maintained in the custody and safekeeping of the System’s master custodial bank. All other assets, however, are held in custody at the discretion of the third-party investment managers.

As numerous studies indicate, distributing portfolio investments by certain attributes will reduce the risk in the real estate portfolio. The attributes by which investments should be distributed or diversified to most effectively reduce risk are:

- 1) Property type
- 2) Geographic location
- 3) Manager allocation and investment size
- 4) Leverage

As such, within the Real Estate allocation, the guidelines are as follows:

**1) Property Type** - The property type limit will ensure prudent diversification amongst property types while still being able to capitalize on opportunities caused by shifts in real estate and capital markets.

- No more than 40% of the allocation shall be invested in any one property type

**2) Geographic Location** – Investments within the Real Estate allocation will be distributed geographically for the purpose of attaining economic market diversification. A minimum of 65% will be located in the U.S. with a maximum of 35% invested outside the U.S.

**3) Manager Allocation and Investment Size** – Investments within the Real Estate allocation will be diversified both by individual investment exposure and manager exposure, as the System does not want the failure of a single investment to have a significant or material impact on the performance of the total Real Estate program.

- No more than 20% of capital committed to any investment in the Strategic Portfolio
- No more than 10% of capital committed to any investment in the Tactical Portfolio
- No more than 40% of capital committed to any single investment manager
- No more than 50% of ex-U.S. exposure to come from investments in emerging markets

#### **4) Leverage**

- The Strategic Portfolio loan-to-value ratio shall be no more than 50% at portfolio level
- The Tactical Portfolio loan-to-value ratio shall be no more than 75% at portfolio level

## Alternative Investment Guidelines

**Purpose:** Alternative investments are non-traditional investment vehicles that do not fall within another investment asset class. The primary objective of alternative investments is to seek superior risk-adjusted returns. Secondly, these investments have had a low correlation with broad stock and bond market returns, thus potentially reducing the volatility of the return of the Total Fund. Examples of alternative investments include private equity, private debt, opportunistic strategies, and hedge funds. As a result of the non-traditional, long-term and illiquid nature of alternative investments, an Annual Strategic Plan will be prepared and presented to the Independent Investment Committee (IIC) for approval.

**Allocation:** The current target allocation to Alternative Investments is 15% of the Total Fund, with an allowable range of 5 – 25%.

In order to reach and maintain the target allocation, capital commitments in excess of 15% of the Total Fund may be made. The primary reasons for permitting such an over commitment are the staged capital calls for new investments and anticipated returns of capital.

**Structure:** The Alternative Investment portfolio primarily includes the following:

Private Equity – The purpose of Private Equity is to earn risk-adjusted returns in excess of public equity markets. These investments are also expected to decrease the volatility of the System’s assets through the diversification benefits of having lower correlations with other asset classes.

Sub-strategies include:

- *Buyouts/Corporate Finance* – Provides leveraged capital and business development capital to enable the restructuring of existing business and industries.
- *Energy* – Investments may include exploration & production, generation, storage, transmission, distribution, renewable energy sources, clean technologies, energy technologies and other similar investments.
- *Growth Equity* – Provides expansion capital for small, growing businesses that are generating cash flow and profits. Generally, these types of investments have minimal exposure to technology risk.
- *Infrastructure* - Investments involve the purchase of critical service assets (i.e. toll roads, bridges, water treatment plants, etc). Typically infrastructure assets exhibit one or more of the following qualities: monopolistic or quasi-monopolistic, high barriers to entry, long-term assets, regulatory or permitting constraints.
- *Secondaries* – Private equity interests that are generally purchased at a discount from valuation from motivated sellers. The interests purchased are generally venture and buyout interests with limited exposure to unfunded capital commitments. The strategy also includes the purchase of direct interests in companies through the secondary market.

- *Special Situations* – Generally have an open-ended investment objective and seek to capitalize on opportunities in a wide variety of sectors.
- *Venture Capital* – Implies early-stage financing of rapidly growing companies with an innovative/disruptive business idea for a proprietary product or service.

Private Debt – The purpose of Private Debt is to earn risk-adjusted returns in excess of public debt markets. These investments are also expected to decrease the volatility of the System’s assets through the diversification benefits of having lower correlations with other asset classes.

Sub-strategies include:

- *Direct Lending* – An investment strategy involving lending directly to companies that seek to generate high current income while focusing on preservation of capital.
- *Distressed* – Includes trading strategies through control positions. For trading strategies, distressed securities are defined as securities experiencing financial or operational distress, default, or are under bankruptcy. Investment instruments include publicly-traded debt securities, private debt, trade claims, mortgage debt, common and preferred stock and commercial paper. Control strategies involve companies with poorly-organized capital structures, turnaround situations and bankrupt companies. Long and short positions are commonly used as a technique to lock in profit or reduce risk.
- *Mezzanine* – An investment strategy involving subordinated debt (the level of financing tranche that is senior to equity but below senior debt). Capital supplied by mezzanine financing is used for various situations such as facilitating changes in ownership through leveraged buyouts or recapitalizations, financing acquisitions, or enabling growth. Venture lending and leasing is a subset of mezzanine financing that targets venture-backed companies. Revenue and Royalty interests are a subset of mezzanine financing that targets intellectual property, license agreements and other similar property that has the ability to restrict the rights to commercialization.

**Targets:**

<b>Sub Strategy</b>	<b>Allocation Target*</b>
Private Equity	10%
Private Debt	5%

\* As a percentage of Total Fund

**Custody:** All assets are held in custody at the discretion of the fund manager.

**Risk Management:** Alternative investment strategies do not lend themselves to traditional quantitative measures of risk such as standard deviation and benchmark tracking error. Rather, risk is managed through a combination of quantitative and qualitative constraints. The following sections identify the unique risks with alternative investments and method of control:

- Industry – Typically, alternative investment funds are permitted to invest in a wide variety of industries with limited controls. Industry risk is controlled primarily through appropriate diversification across strategies and sub-strategies.
- Leverage – Many underlying alternative investment programs will utilize leverage. The intent of the System is to not rely on managers employing high degrees of leverage.
- Vintage – Vintage merely reflects the year of first capital draw and vintage risk refers to the variability of investment commitments over time. A long-term investment pacing schedule is developed which minimizes vintage risk while achieving targeted exposure.
- Concentration Limits –The System shall not own more than 10% of any single investment vehicle except with prior approval of the NHRS IIC.
- Due Diligence – Each potential investment will be evaluated for portfolio fit; organizational stability; investment staff; investment strategy; investment process; and fund economics.
- Annual Strategic Plan – Given the non-traditional, long-term and illiquid nature of alternative investments, an Annual Strategic Plan will be prepared and presented to the IIC for approval. The Annual Strategic Plan will include a review of performance; cash flow and liquidity analyses; commitment pacing; and sub-strategy recommendations.

## **NHRS Investment Philosophy:**

### **Adopted by the Investment Committee at the July 17, 2009 meeting**

**Purpose:** The New Hampshire Retirement System (“NHRS” or “System”) Investment Philosophy sets forth guiding principles for the management of the investment program.

**Description of the Fund:** The NHRS is a defined-benefit pension plan. Contributions to the plan are made by employees and employers participating in the System. These contributions are invested to support the payment of plan benefits and to pay reasonable expenses of administering the System.

The System’s assets are invested pursuant to the Constitution of the State of New Hampshire and all applicable statutes and are managed in accordance with the NHRS Statement of Investment Policy for the exclusive purpose of providing plan benefits to members and beneficiaries. NHRS plan fiduciaries are beholden to a duty of loyalty and a standard of care as described in RSA 100-A:15. The Board of Trustees (“Board”) and the Investment Committee (“Committee”) seek the advice and assistance of internal and external professionals and shall exercise conscious discretion when making investment decisions. The Committee members recognize their fiduciary duty to invest the System's funds prudently and in continued recognition of the fundamental long-term nature of the System.

The NHRS investment program has a distinctive profile. The objective of supporting plan benefits is one primary differentiator from the goals of other types of institutional investors, for example, endowments or foundations. The NHRS also differs from other public pension plans because each plan has its own distinctive characteristics such as benefit structures and legislative mandates. The System has a high proportion of retirees relative to actively-contributing members. The demographics of a mature plan require more liquidity from the investment program because contributions into the plan do not fully offset the benefits paid. Additionally, the size of the NHRS investment program provides the System with the ability to invest in certain opportunities but may not provide the scale necessary to gain access to other opportunities. All of these factors guide the design of the NHRS investment program.

**Investment Objectives:** The NHRS pursues an investment strategy designed to support the long-term funding obligations of the plan. The Board adopts an assumed rate of return and sets asset-allocation policy. The Committee manages the components of the investment program with the goal of achieving the plan’s objectives with a comprehensive understanding of risk. This involves designing a program that balances expected return and risk over long time periods through a range of market conditions. For the reasons previously mentioned, peer performance or universe comparisons are not the most appropriate measurements of the effectiveness of the NHRS investment program. Performance comparisons within the context of the stated investment objectives will promote alignment with the System’s mission.

The primary objective of the Committee is to manage the investment program to support the payment of plan benefits over the long-term. A secondary objective is to exceed the policy benchmark on a net-of-fees basis over a three to five-year period.

## **NHRS Investment Philosophy:**

**Market View and Context:** The Committee believes that financial markets are largely, but not entirely, efficient. This means that there is a central tendency to the markets and that in some developed and accessible segments it is difficult to gain an advantage relative to other investors. However, there are areas of the market in which inefficiencies exist due to more limited access, information, coverage, or other factors; and investors can benefit from participation in these areas. Investment opportunities emerge and evolve over time and the NHRS Committee, staff, and consultants will remain vigilant concerning market developments in order to identify these opportunities and to build a sustainable advantage.

**Diversification:** The Board and the Committee recognize that it is necessary to maintain broad diversification both among and within various asset classes. The asset allocation of the investment program will be reviewed monthly by staff relative to the asset-class policy targets and ranges established by the Board in the Statement of Investment Policy. Staff shall strive to maintain the System's asset allocation within policy ranges. When rebalancing assets already within ranges, staff will give due consideration to market conditions, costs and risks of implementation, potential impacts on manager-level performance, and other relevant factors.

**Portfolio Structure and Implementation:** The Committee may utilize a combination of passive and active management strategies. The goal of passive management is to gain diversified exposure to the desired asset class while incurring minimal expense and seeking performance returns comparable to the asset class benchmark. The goal of active management is to exceed the performance of the appropriate benchmark on a net-of-fees basis, measured across market cycles, at a commensurate level of risk. The Committee will structure the program and implement its philosophy through the use of external investment management firms.

**Performance Measurement:** The ultimate measurement of the pension plan is how well it achieves its funding objectives and supports plan benefits. This is a shared responsibility between the Board who set the assumed rate of return and also determines the contribution rates and the Committee who seek to augment those contributions with investment returns over the long term. Achievement of the plan objectives in absolute terms is contingent on sound return assumptions and the execution of a clear investment process which recognizes that market conditions will vary over time.

Relative investment performance can be an important measurement tool. The Board adopts specific benchmarks which represent the standards of measurement used for the various asset classes utilized by the NHRS. Individual managers are also measured relative to benchmarks. As a model for performance measurement of the investment program, the NHRS uses a plan-level policy benchmark comprised of index returns (or proxy asset returns in the case of illiquid assets) weighted to reflect the asset-allocation policy targets set by the Board. This provides insight into the ways in which the actual portfolio performs relative to a passively-managed representation of plan policy during various market conditions.

Since investment returns will vary under different economic conditions and market cycles, an optimal period for effectively measuring performance would span three to five years or more. NHRS returns are expected to exceed the relevant benchmark on a net-of-fees basis over time.



## **NHRS Investment Philosophy:**

**Risk:** Risk must be viewed within the context of the total portfolio. Since most risks are not readily quantifiable, defining the appropriate level of risk and creating a portfolio that reflects a reasonable balance between potential risk and return is a matter of judgment. Risk comes in a variety of forms including the risk of the unknown, liquidity risk, valuation risk, regulatory risk, geopolitical risk, and volatility risk as well as excessive diversification, fraud, inconsistency of investment discipline, and the risk of the destruction of capital. The Committee takes a broad view of risk in its oversight and endeavors to mitigate risk through rebalancing, monitoring managers, and conducting strategic reviews of the portfolio.

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