## **New Hampshire Retirement System**

A Component Unit of the State of New Hampshire

## **Comprehensive Annual Investment Report**

For the Fiscal Year Ended June 30, 2021



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December 14, 2021

The Honorable Christopher Sununu, Governor The Honorable Chuck Morse, President of the Senate The Honorable Sherman Packard, Speaker of the House of Representatives

### Annual Report 2021

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, 2021, in accordance with the provisions of the Revised Statutes Annotated (RSA) 100-A:15, VII of the State of New Hampshire.

### Asset Allocation & Summary of Results

Total assets at the end of Fiscal Year 2021 were \$11.5 billion, reflecting a \$2.4 billion increase compared to \$9.1 billion the prior year. 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.

Asset Class	<b>Target Allocation</b>	Allocation Range	Actual Allocation at June 30, 2021*
U.S. Equity	30%	20 - 40%	33.5%
Non-U.S. Equity	20%	15 - 25%	16.4%
Fixed Income	25%	20 - 30%	21.0%
Real Estate	10%	5 - 20%	9.8%
Alternative Investments	15%	5 - 25%	19.3%

\* 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, 2021 all asset classes were within the allocation ranges.

The NHRS return was 29.4% net of fees for the Fiscal Year ended June 30, 2021 compared to the benchmark return of 24.3%. The five-year annualized net of fees return was 11.3% compared to the benchmark return of 11.1%. The ten-year annualized net of fees return and benchmark return were 9.3% and 9.5%, 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 28% and 18% for the five and ten-year trailing periods, respectively. These rankings are based on the Callan Public Fund Large Defined Benefit Gross Universe.

Over the long-term the 25-year annualized net of fees return was 7.9%. 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, 2021 the three independent members were Christine Clinton, CFA; Daniel LaPlante, CFA; and Keith Quinton and the active member was Michael McMahon. The Committee would like to recognize Keith Quinton, who resigned effective July 1, 2021, for his contribution and dedicated service.

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 provides governance and oversight of the pension fund assets and is presented in Appendix C of this report. 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, NHRS 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. 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 an Annual Comprehensive Financial Report (ACFR), 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. ACFR reports are available on the System's website, www.nhrs.org.

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

- Reviewed capital market expectations and asset allocation in conjunction with an asset/liability study
  - Terminated a U.S. equity manager and transferred the funds to the existing passive U.S. equity account
  - Terminated a non-U.S. equity manager and hired two core non-U.S. equity managers
  - Initiated a manager search to replace a non-U.S. equity manager
  - Updated the U.S. equity benchmark from the S&P 500 to the Russell 3000; added a custom benchmark for attribution analysis purposes
- Reviewed the long-term performance of all current marketable investment managers against their respective benchmarks and renewed their contracts, where appropriate
- Reviewed and renewed, where appropriate, service provider/other contracts:
  - Renewed the proxy voting service provider agreement with ISS for an additional two-year period
  - Completed search for an investment consultant and retained Callan for a five-year period
- 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 \$425 million in aggregate were made to four private equity and three private debt investment strategies totaling \$275 million and \$150 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 Jan Goodwin, Executive Director Lawrence A. Johansen, Director of Investments



Maureen Kelliher has more than four decades of investment management experience. She has served as cochief and chief investment officer for trust and investment management firms as well as money desk manager for several banks. She is a CFA charterholder and is a member of the CFA Institute. She lives in Dover.

Christine Clinton has been working in the investment management industry for more than a decade after cofounding Bluestone Wealth Management LLC. Prior to Bluestone, she worked as a Corporate Controller for several high-tech start-ups in the communications, finance and biotech industries in the Boston area. Christine is a CPA as well as a 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 at Granite Investment Advisors in Concord. Prior to joining Granite Investment Advisors in 1999, he worked at NationsBanc Montgomery Securities and Merrill Lynch Pierce Fenner & Smith. He is a frequent guest on CNBC's "Closing Bell," "Squawk Box Asia," "Power Lunch" and "The Nightly Business Review," where he discusses economics, markets, and securities. He is a trustee of The Beech Hill School, and a former Trustee of both the Concord Regional Visiting Nurse Association and The Capital Center for the Arts. He is also chair of the NHRS Board of Trustees. He lives in Concord.

Michael McMahon has been a member of Hampton Fire rescue for over 25 years, rising to the rank of Chief. 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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October 8, 2021

Callan LLC 1 Deforest Avenue Suite 101 Summit, NJ 07901

Main 908.522.3880 Fax 908.277.1503

www.callan.com

Board of Trustees Investment Committee Executive Director **The New Hampshire Retirement System** 54 Regional Drive Concord, NH 03301-8507

Dear NHRS Fiduciaries:

Callan LLC (Callan) is pleased to provide an overview of the New Hampshire Retirement System (NHRS) investment program for the fiscal year ended June 30, 2021. Fiscal year 2021 was an unusually strong year for the capital markets. Fueled by rapid progress in vaccinations and re-opening economies, pent-up consumer demand, and continued monetary and fiscal stimulus, consumer sentiment climbed and economic data were broadly positive. This spurred sharp gains in global stock markets, commodities, and real estate. Markets were seemingly undisturbed by the ongoing debate as to whether recent increases in inflation will be short-lived or not, with most of Wall Street being in the Fed's "transitory" camp. Investors were also unperturbed by the Fed's move to a more "hawkish" stance coming out of its recent June meeting. In addition to the positive momentum experienced in the capital markets, the overall portfolio (the "Fund") benefited from the strong performance achieved by the active managers in the Fund, particularly within the small and mid-capitalization segments of the equity portfolio. In addition, the fixed income managers registered exceptional performance relative to benchmarks, and the real estate portfolio also contributed to the Fund's success over the period.

NHRS follows an investment strategy designed to meet its funding requirements over the long-term. Assets are allocated efficiently to ensure that beneficiaries will receive the benefits they were promised. The Fund is managed on a total return basis, while recognizing the importance of capital preservation and prudent risk management. Additionally, the Fund is administered in accordance with sound fiduciary standards and industry best practices. The Fund's strategic asset allocation and related objectives, parameters and specific delegation of responsibilities are explicitly defined in the Investment Policy Statement. The Independent Investment Committee (IIC) manages the investment program pursuant to the investment policy, develops asset class guidelines, monitors and evaluates performance, and makes decisions regarding the retention or termination of asset managers. The investment manual includes all investment policies and asset class guidelines and may be obtained from the NHRS website at <u>www.nhrs.org</u>. The following pages report on the performance and attributes of the investment program for fiscal year 2021.

### Market Review for the Year Ended June 30, 2021

The fiscal year concluded with rapid progress in COVID-19 vaccinations and re-opening economies, pent-up demand, and continued monetary and fiscal stimulus. After the precipitous sell-off in the spring of 2020, risk assets rallied. Consumer sentiment climbed and economic data were broadly positive spurring sharp gains in global stock markets, commodities, and real estate. The yield curve steepened over the fiscal year and most bond sectors produced muted returns. In March 2021, the Fed confirmed they will continue asset purchases of \$120 billion per month, but Chairman Jerome Powell did acknowledge that "tapering" had been a discussion item. U.S. GDP surged 6.5% in the fourth quarter of the fiscal year, falling short of expectations as business re-openings and

government aid fueled the recovery, while inflation and supply/demand imbalances held growth back. Headline inflation was measured at 5.4% and core inflation was measured at 4.5% in June 2021, representing the largest increases since 2008 and 1991, respectively. U.S. equities outperformed Developed Non-U.S. equities over the fiscal year. The S&P 500 Index closed the fiscal year at a record high, registering a 40.8% return. Developed ex-U.S. stocks also had a strong fiscal year, with the MSCI EAFE Index returning 32.4% and all regions posting positive returns. Emerging markets equities, as measured by the MSCI Emerging Markets Index, returned 40.9%, outperforming U.S. and Non-U.S. developed markets equities. Fixed income markets were challenged as concerns over future inflation drove the 10-year U.S. Treasury yield to a 15 month high in March 2021, and the Bloomberg U.S. Aggregate Bond Index returned -0.3% over the fiscal year.

#### **NHRS Investment Portfolio Review**

For the fiscal year ended June 30, 2021, the NHRS Total Fund returned 26.78%, net of investment management fees (or "net"), and outperformed the Total Fund Benchmark return of 25.43%. The Fund posted a return of 27.11%, gross of investment management fees (or "gross"), ranking near the top third of its peers in Callan's Large Defined Benefit Public Fund Universe, which consisted of 106 constituents as of June 30, 2021. The Fund's strong performance relative to its custom benchmark was attributable to the success of the Domestic Equity, Fixed Income, and Real Estate portfolios. An underweight to fixed income relative to the target allocation also contributed to results. For the trailing three year period ended June 30, 2021, the Fund returned 10.68%, (net), ranking above the peer group median (48<sup>th</sup> percentile) (peer group rankings are measured gross of investment management fees). For the trailing five year period ended June 30, 2021, the Fund returned 10.86% (net), ranking above the peer group median (37<sup>th</sup> percentile). For the trailing ten year period ending June 30, 2021, the Fund returned 9.04% (net), ranking in the 23<sup>rd</sup> percentile of its peers. For the trailing twenty-five year period ended June 30, 2021, the Fund returned 7.79% (net), exceeding the current assumed rate of return of 6.75% and ranking in the 40<sup>th</sup> percentile of its peers. During fiscal year 2021, the IIC conducted an asset/liability study, evaluated the structure of the marketable assets portfolio, continued to implement the expansion of the alternative investment portfolio, and reviewed the Investment Policy Statement. In this process, the domestic equity benchmark was changed from the S&P 500 Index to the Russell 3000 Index to account for the small and midcapitalization strategies represented in the portfolio. In addition, a custom benchmark (60% S&P 500 Index, 20% Russell 2500 Index, 20% Russell 2000 Index) was established for performance monitoring purposes.

Callan LLC provides NHRS with strategic planning, implementation, performance monitoring services, and ongoing research and education on a variety of relevant topics for institutional investors. Investment performance comparative analysis produced by Callan has been calculated using industry standard performance evaluation methodologies, consistent with industry best practices. Performance results are calculated using a time-weighted return methodology and are reported both net of investment management fees, as well as gross of fees.

Sincerely,

2.

Angel Haddad Senior Vice President

Britton M. Murdoch Vice President

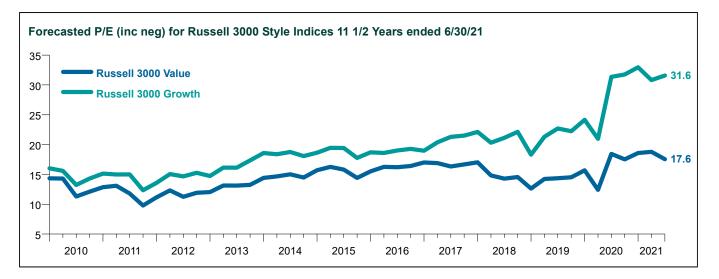
### **Investment Performance Review – Fiscal Year 2021**

### **Overview**

For the fiscal year ended June 30, 2021, the NHRS Total Fund returned 26.78%, net of investment management fees (or "net"), and outperformed the Total Fund Benchmark return of 25.43%. The Fund posted a return of 27.11%, gross of investment management fees (or "gross"), ranking near the top third of its peers in Callan's Large Defined Benefit Public Fund Universe, which consisted of 106 constituents as of June 30, 2021. The Fund's strong performance relative to its custom benchmark was attributable to the success of the Domestic Equity, Fixed Income, and Real Estate portfolios. An underweight to fixed income relative to the target allocation also contributed to results.

### U.S. Equity Markets

U.S. stocks registered a return of 40.8% over the fiscal year, as measured by the S&P 500 Index. The annualized return over the past 10 years is a healthy 14.8%. U.S. equities performance was broad based across sectors, with Financials and Industrials performing best over the fiscal year. Value stocks ended the fiscal year slightly outpacing growth stocks, with value and growth rotating in and out of favor over the fiscal year. The Information Technology and Communications sectors in the Russell 1000 Growth Index now make up almost 60% of the index, a concentration last seen in the Dot-Com Bubble in 2000-2002. Small cap stocks sharply outperformed large cap stocks over the period, returning +62.0%, as measured by the Russell 2000 Index.

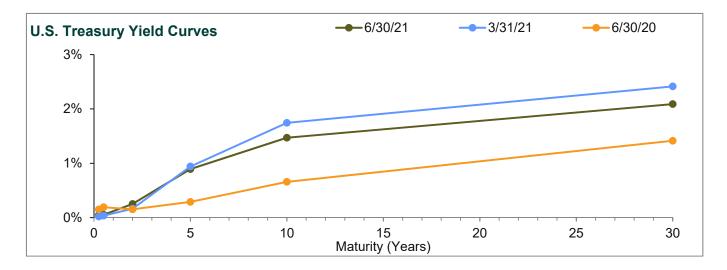


### Non-U.S. Equities

Developed international and emerging market equities produced positive returns during the fiscal year as government stimulus and a continued "return to normal" spurred positive sentiment. Risk assets performed well throughout the fiscal year, but lost momentum in the last quarter amid concerns around the Delta variant. For the fiscal year, developed markets underperformed emerging markets, although both ended the period with returns over 32%. Emerging market small cap performed particularly well, as measured by the MSCI EM Small Cap Index (+63.7%), with smaller emerging markets companies benefitting from rebounds within industrials and basic materials. For the one year period ended June 30, 2021, developed markets, as measured by the MSCI EAFE Index, posted a return of +32.4% and emerging markets (measured by MSCI Emerging Markets Index) posted a return of +40.9%.

### Fixed Income

The 10-year U.S. Treasury yield rose through the first three quarters of the fiscal year, settling at 1.45% as of June 30, 2021. Demand for corporate credit remained strong over the period despite record issuance in calendar year 2020 as the hunt for yield continues. Strong equity performance and robust economic data fueled risk appetite, and lower-quality fixed income securities, such as high yield and leveraged loans, were the best performers while U.S. Treasuries underperformed spread sectors over the period. The Federal Reserve continued to hold benchmark rates at a range of 0% to 0.25%. The yield curve steepened over the fiscal year and most bond sectors produced muted returns. The Bloomberg U.S. Aggregate Index posted positive performance in all quarters except the first quarter of 2021, but ended the fiscal year with a -0.33% return. The U.S. Treasury 10-year yield closed the first quarter of 2021 at 1.74%, above the S&P 500 dividend yield (+1.45%) for the first time since mid-2019.



### Real Estate and Alternative Investments

The real estate market returned 6.6% for the fiscal year as measured by the NCREIF ODCE Index. The second quarter of 2021 represented the index's strongest quarterly return in 10 years. Income returns remained positive throughout each quarter of the fiscal year across all sectors except the Hotel sector. Industrials were the best performing segment of the real estate market over the period. Alternative investments posted strong returns for the fiscal year, as recovery from the pandemic led to a frothy private equity fundraising environment and a proliferation of over-subscribed, and ever larger, funds. Fundraising reached a new high during the first half of 2021, exceeding levels reached during the first half of 2020 by 20% and by 48% over the same period in 2019. Ten funds have closed over \$10 billion in commitments in the first half of 2021. Commodities rose 45.5% over the fiscal year of 2021, according to the Bloomberg Commodity Index. Gains were fueled by the rise in oil prices throughout the fiscal year.

### NHRS Asset Class Highlights

NHRS Asset Class	FY 2021 Return (Net of Fees)
Total Fund	26.8%
Total Fund Custom Index	25.4%
Total Domestic Equity	46.8%
US Equity Index	40.8%
Total Non-US Equity	33.4%
Non-US Equity Index	35.7%
Total Fixed Income	5.9%
Fixed Income Benchmark	1.1%
Total Real Estate	8.7%
Real Estate Benchmark	1.5%
Total Alternatives	29.3%
Alternative Assets Benchmark	44.1%

The NHRS Total Domestic Equity portfolio, comprised of both passive and actively managed portfolios, returned 46.8% (net), and outperformed the U.S. Equity Index return of 40.8% by 600 basis points. The Domestic Equity portfolio's small/mid-cap exposure served as a tailwind, as this segment of the portfolio outperformed large cap stocks. Large cap stocks were up 40.8% (S&P 500 Index) while small/mid-cap stocks (Russell 2500 Index) and small cap stocks (Russell 2000 Index) were up 57.8% and 62.0%, respectively, over 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 markets, returned 33.4% (net). The Non-U.S. Equity portfolio underperformed its benchmark by 233 basis points during the fiscal year as emerging market equities detracted most from relative performance.

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 5.9% return (net), outperforming the Total Fixed Income Index return of 1.1% by 475 basis points. Overall, investments in spread sectors and a shorter duration posture contributed to results, as yields rose over the fiscal year and spread sectors outperformed U.S. Treasuries.

The NHRS Real Estate portfolio returned 8.7% (net), outperforming its benchmark return of 1.5% by 723 basis points. Outperformance came from both the Core and Non-Core Real Estate allocations within the portfolio.

Lastly, for fiscal year 2021, the Alternative Investments portfolio generated a return of 29.3% (net) while its benchmark returned 44.1%. Underperformance is partly attributable to the valuation process and return calculation methodology used for alternative investments. Private market products have not been able to keep up with the significant appreciation of the target benchmark, which includes the return of the S&P 500 Index plus a premium of 3% and the return of the S&P LSTA Leveraged Loan 100 Index.

Investment Market Update (by asset type)

Index Summary (6/30/21)	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Equity Indices				
S&P 500 Index	40.8%	18.7%	17.7%	14.8%
Russell 1000 Index	43.1%	19.2%	18.0%	14.9%
Russell 1000 Growth Index	42.5%	25.1%	23.7%	17.9%
Russell 1000 Value Index	43.7%	12.4%	11.9%	11.6%
Russell 2000 Index	62.0%	13.5%	16.5%	12.3%
Russell 2000 Growth Index	51.4%	15.9%	18.8%	13.5%
Russell 2000 Value Index	73.3%	10.3%	13.6%	10.9%
Russell 2500 Index	57.8%	15.2%	16.4%	12.9%
Russell 3000 Index	44.2%	18.7%	17.9%	14.7%
MSCI ACWI Index	39.3%	14.6%	14.6%	9.8%
MSCI ACWI ex US Index	35.7%	9.4%	11.1%	5.3%
MSCI EAFE Index	32.4%	8.3%	10.3%	5.0%
MSCI EAFE Growth Index	31.0%	12.5%	12.5%	7.8%
MSCI EAFE Value Index	33.5%	3.8%	7.8%	2.0%
MSCI Europe Index	35.1%	8.7%	10.3%	4.3%
MSCI Japan Index	24.8%	7.2%	10.2%	7.0%
MSCI Pacific ex JPN Index	34.2%	8.2%	10.4%	5.2%
MSCI EM Index	40.9%	11.3%	13.0%	6.4%
Fixed Income Indices				
Bloomberg Aggregate Index	-0.3%	5.3%	3.0%	3.4%
Bloomberg Gov't/Credit Index	-0.4%	6.0%	3.3%	3.7%
Bloomberg TIPS Index	6.5%	6.5%	4.2%	3.4%
Bloomberg High Yield Corporate Index	15.4%	7.5%	7.5%	6.7%
S&P LSTA Leveraged Loan 100 Index	9.4%	4.3%	4.7%	4.1%
Bloomberg Global Aggregate Index	2.6%	4.2%	2.3%	2.1%
Bloomberg High Yield Muni Index	14.3%	7.6%	6.2%	7.0%
JPM EMBI Global Diversified Index	7.5%	6.7%	4.9%	5.7%
JPM GBI-EM Global Diversified Index	6.6%	4.1%	3.3%	0.5%
Other Indices				
Bloomberg Commodity Price Index	45.5%	2.7%	1.3%	-5.0%
S&P GSCI Index	57.4%	-2.7%	1.7%	-6.5%
Alerian MLP Index	64.0%	-0.3%	-1.1%	1.1%
FTSE NAREIT Composite Index	34.0%	11.5%	8.1%	10.0%
NCREIF NFI-ODCE Equal Weight Net Index	8.0%	5.2%	6.1%	8.9%

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

Index Summary (6/30/21)	Last Year	Last 3 Years	Last 5 Years	Last 10 Years
Russell 2000 Value Index	73.3%	10.3%	13.6%	10.9%
Alerian MLP Index	64.0%	-0.3%	-1.1%	1.1%
Russell 2000 Index	62.0%	13.5%	16.5%	12.3%
Russell 2500 Index	57.8%	15.2%	16.4%	12.9%
S&P GSCI Index	57.4%	-2.7%	1.7%	-6.5%
Russell 2000 Growth Index	51.4%	15.9%	18.8%	13.5%
Bloomberg Commodity Price Index	45.5%	2.7%	1.3%	-5.0%
Russell 3000 Index	44.2%	18.7%	17.9%	14.7%
Russell 1000 Value Index	43.7%	12.4%	11.9%	11.6%
Russell 1000 Index	43.1%	19.2%	18.0%	14.9%
Russell 1000 Growth Index	42.5%	25.1%	23.7%	17.9%
MSCI EM Index	40.9%	11.3%	13.0%	6.4%
S&P 500 Index	40.8%	18.7%	17.7%	14.8%
MSCI ACWI Index	39.3%	14.6%	14.6%	9.8%
MSCI ACWI ex US Index	35.7%	9.4%	11.1%	5.3%
MSCI Europe Index	35.1%	8.7%	10.3%	4.3%
MSCI Pacific ex JPN Index	34.2%	8.2%	10.4%	5.2%
FTSE NAREIT Composite Index	34.0%	11.5%	8.1%	10.0%
MSCI EAFE Value Index	33.5%	3.8%	7.8%	2.0%
MSCI EAFE Index	32.4%	8.3%	10.3%	5.0%
MSCI EAFE Growth Index	31.0%	12.5%	12.5%	7.8%
MSCI Japan Index	24.8%	7.2%	10.2%	7.0%
Bloomberg High Yield Corporate Index	15.4%	7.5%	7.5%	6.7%
Bloomberg High Yield Muni Index	14.3%	7.6%	6.2%	7.0%
S&P LSTA Leveraged Loan 100 Index	9.4%	4.3%	4.7%	4.1%
NCREIF NFI-ODCE Eq Wt Net Index	8.0%	5.2%	6.1%	8.9%
JPM EMBI Global Diversified Index	7.5%	6.7%	4.9%	5.7%
JPM GBI-EM Global Diversified Index	6.6%	4.1%	3.3%	0.5%
Bloomberg TIPS Index	6.5%	6.5%	4.2%	3.4%
Bloomberg Global Aggregate Index	2.6%	4.2%	2.3%	2.1%
Bloomberg Aggregate Index	-0.3%	5.3%	3.0%	3.4%
Bloomberg Gov/Credit Index	-0.4%	6.0%	3.3%	3.7%

<u>S&P 500 Sectors (sorted by best to worst 1-year performance)</u>

Sector	Benchmark Weight (%) as of 6/30/21	Benchmark Return (%) as of 6/30/21
Financial	11.28%	61.77%
Industrials	8.54%	51.45%
Energy	2.85%	49.38%
Materials	2.60%	48.51%
Communication Services	11.14%	48.38%
Information Technology	27.42%	42.40%
Consumer Discretionary	12.28%	37.08%
Real Estate	2.58%	31.88%
Health Care	12.99%	27.92%
Consumer Staples	5.86%	23.29%
Utilities	2.45%	15.77%



#### Summary

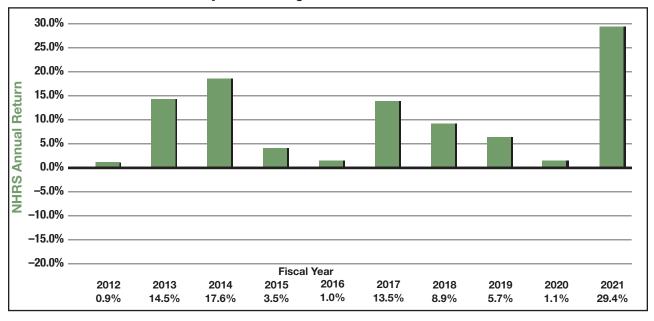
We believe that the Fund's current strategic asset allocation is appropriate to meet its long-term investment objectives. Our analysis suggests that the expected risk/return trade-offs are not compelling enough to necessitate a change in the target asset mix at this time. The overall manager structure of the portfolio is favorable, though we continue to evaluate opportunities to optimize expected results by reducing unintended style and risk exposures in the portfolio. The Fund exhibits attractive performance relative to objectives over the long-term.

### INVESTMENT REPORTS

	<b>Current Year</b>		Annualized	
	2021	3 Year	5 Year	10 Year
Total NHRS Fund	29.4%	11.4%	11.3%	9.3%
Total Fund Custom Index*	24.3	12.0	11.1	9.5
Domestic Equity	46.8	16.0	16.4	13.6
Total Domestic Equity Blended Benchmark*	40.8	18.7	17.7	14.8
Non-U.S. Equity	33.4	9.0	10.9	5.6
Total Non-U.S. Equity Blended Benchmark*	35.7	9.4	11.1	5.5
Fixed Income	5.9	6.3	4.6	4.4
Total Fixed Income Blended Benchmark*	1.1	5.6	3.5	3.7
Real Estate	15.9	8.7	9.1	11.2
Total Real Estate Blended Benchmark*	7.1	4.6	5.6	8.7
Alternative Investments	39.4	14.4	13.2	9.5
Total Alternative Investments Benchmark*	31.9	15.8	13.6	14.6
Cash Equivalents	0.1	1.4	1.3	0.7
90 Day T-Bills	0.1	1.3	1.2	0.6

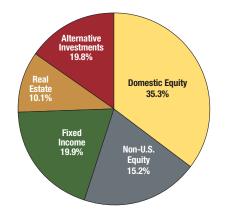
Performance returns are calculated on a net-of-fees time-weighted rate of return basis.

\*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.



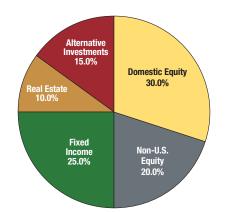
### Ten Year History of Time-Weighted Total NHRS Fund Annual Returns

	4	As of June 30, 2021		
	Actual %	Target %	Target Range %	
Domestic Equity	35.3%	30.0%	20 – 40	
Non-U.S. Equity	15.2%	20.0	15 – 25	
Fixed Income	19.9%	25.0	20 – 30	
Real Estate	10.1%	10.0	5 – 20	
Alternative Investments	19.8%	15.0	5 – 25	
TOTAL FUND	100.0%	100.0%		



### Actual Asset Allocation as of June 30, 2021

### Target Asset Allocation as of June 30, 2021



TEN	LARGEST STO	CK HOLDINGS BY FAIR VALUE*	(in thousands)
			June 30, 2021
	Shares	Stock	Fair Value
1	504,918	Microsoft Corp	\$136,782
2	881,965	Apple Inc	120,794
3	27,186	Amazon.com Inc	93,524
4	22,866	Alphabet Inc – CL C	57,309
5	20,109	Alphabet Inc – CL A	49,102
6	134,571	Facebook Inc	46,792
7	58,032	Adobe Inc	33,986
8	88,947	Roche Holding AG	33,540
9	2,637,800	AIA Group LTD	32,778
10	88,239	Mastercard Inc	32,215

TEN	LARGEST FIXE	D INCOME HOLDINGS BY FAIR VALUE*	(in thousands)
	Par**	Security	June 30, 2021 Fair Value
1	51,200,000	U.S. Treasury Note – 0.375%, 2026	\$50,174
2	41,225,000	U.S. Treasury Note – Var Rate, 2023	41,239
3	29,935,000	U.S. Treasury Bond — 1.125%, 2040	25,753
4	25,170,000	U.S. Treasury Note – Var Rate, 2022	25,184
5	25,351,000	U.S. Treasury Note - 0.625%, 2030	23,618
6	19,806,000	U.S. Treasury Note - 0.250%, 2025	19,431
7	14,507,000	U.S. Treasury Bond — 3.000%, 2048	17,321
8	16,760,000	U.S. Treasury Note – Var Rate, 2022	16,775
9	19,602,000	U.S. Treasury Bond — 1.375%, 2050	16,525
10	15,795,000	U.S. Treasury Note — Var Rate, 2022	15,804

\*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.

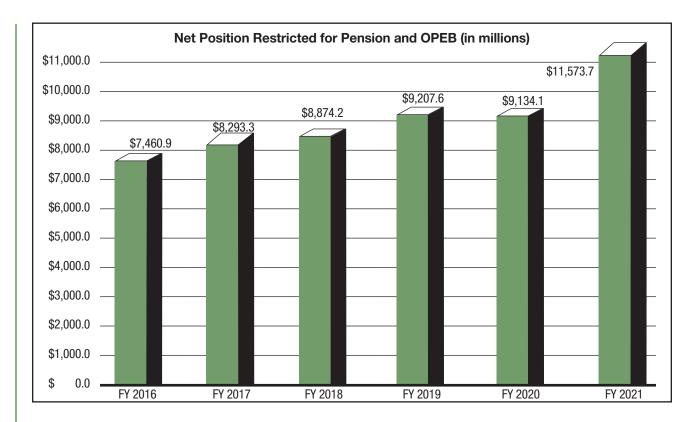
	YE	AR ENDED JUNE 30, 202	21
	Assets Under Management (in thousands)	Fees (in thousands)	Average Basis Points
INVESTMENT MANAGEMENT FEES			
Equity Portfolios:			
Domestic	\$ 3,954,959	\$ 8,414	21
Non-U.S.	1,710,687	11,440	67
Fixed Income Portfolios	2,197,788	6,118	28
Alternative Investments*	2,215,988	13,457	61
Real Estate	1,130,158	11,793	104
Cash and Cash Equivalents**	297,130	_	—
TOTAL INVESTMENT MANAGEMENT FEES	\$11,503,710	\$ 51,222	44
INVESTMENT SERVICE FEES			
Custodial Fees	\$11,503,710	\$ 661	1
Investment Advisor Fees — External	11,503,710	700	1
Investment Professional Fees	11,503,710	438	1
Investment Administrative Expenses — Internal	11,503,710	688	1
TOTAL INVESTMENT MANAGEMENT			
AND SERVICE FEES	\$11,503,710	\$ 53,709	47

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

### SCHEDULE OF BROKERAGE COMMISSIONS PAID

	YEAR ENDED JUNE 30, 2021		
Brokerage Firm	Number of Shares Traded (in thousands)	Total Commissions (in thousands)	Commissions Per Share
Merrill Lynch & Company Inc.	12,425	\$ 205	0.02
Credit Suisse	12,832	148	0.01
J.P. Morgan	6,144	122	0.02
Goldman Sachs & Company	7,362	106	0.01
Morgan Stanley & Company Inc.	5,408	91	0.02
Jefferies & Company, Inc.	5,282	78	0.01
Citigroup Global Markets Inc.	3,252	69	0.02
Pershing Securities LTD	8,266	65	0.01
Instinet, Inc.	4,511	62	0.01
UBS Securities/Warburg	6,453	60	0.01
Barclay's Capital Inc.	2,867	54	0.02
Liquidnet	3,325	54	0.02
Cowen and Company LLC	2,993	45	0.02
RBC Capital	2,195	45	0.02
BTIG LLC	1,203	36	0.03
Electronic Brokerage Systems	1,894	35	0.02
HSBC Securities	2,425	33	0.01
Keefe Bruyette + Woods Inc.	885	24	0.03
BMO Capital Markets Corp	707	23	0.03
All Others (127 not listed separately)	38,813	462	0.01
TOTAL BROKERAGE COMMISSIONS PAID	129,242	\$ 1,817	0.01

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



#### SUMMARY OF INVESTMENTS

	June 30, 2021		
TYPE OF INVESTMENT	Fair Value (in millions)	Percent of Total Fair Value	
FIXED INCOME			
Collateralized/Asset Backed Securities	\$ 243.9	2.2%	
Corporate Bonds	574.2	5.1%	
Government and Agency Bonds	509.9	4.5%	
Blackrock Strategic Income Opportunities	260.2	2.3%	
Fidelity	386.4	3.4%	
Manulife	220.2	2.0%	
TOTAL FIXED INCOME	\$ 2,194.8	19.5%	
EQUITY			
Consumer Cyclical	623.9	5.6%	
Consumer Non-Cyclical	1,101.0	9.8%	
Energy	262.6	2.3%	
Financial Services	872.2	7.8%	
Diversified	6.4	0.1%	
Industrial Materials	651.8	5.8%	
Technology	863.5	7.7%	
Basic Materials	207.8	1.9%	
Communications	474.9	4.2%	
Ishares Russell 2000 ETF	12.1	0.1%	
Neuberger Berman Emerging Markets Equity Fund	231.6	2.1%	
Segall Bryant & Hamill Int'l Small Cap	144.6	1.3%	
Wellington Emerging Markets Local Equity Fund	213.2	1.9%	
TOTAL EQUITY	\$ 5,665.6	50.6%	
OTHER INVESTMENTS			
Alternative Investments	2,216.0	19.8%	
Real Estate	1.130.2	10.1%	
TOTAL INVESTMENTS	\$ 11,206.6	100.0%	

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## Appendix B

Gabriel Roeder Smith & Company Actuarial Opinion Letter

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October 13, 2021

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.

Board of Trustees October 13, 2021 Page 2

We understand the current asset allocation targets and ranges, adopted by the Board of Trustees in September 2012, are based on asset liability modeling and asset allocation recommendations from investment consultants. The Independent Investment Committee reviewed, in March of this year, the results of asset/liability and asset allocation studies and confirmed the asset allocation targets and ranges remain appropriate. Based on 2021 capital market assumptions, Callan has indicated the following expectations for NHRS' current asset allocation:

- During the next 10-year period:
  - The expected rate of return is 6.10% per year;
  - $\circ$   $\;$  The standard deviation is 13.10% per year; and
  - The implicit price inflation rate is 2.0% per year.
- During the next 30-year period:
  - The expected rate of return is 7.30% per year;
  - $\circ$  The standard deviation is 13.10% per year; and
  - The implicit price inflation rate is 2.0% per year.

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, our analysis is based on forward-looking measures of expected investment return outcomes for the asset classes in the System's current investment policy. For purposes of this analysis, we have analyzed the System's investment policy with the capital market assumptions from twelve nationally recognized investment firms and the 2021 GRS Capital Market Assumption Modeler. The capital market assumptions in the 2021 CMAM are from the following investment firms (in alphabetical order): Aon Hewitt, Blackrock, BNY Mellon, Callan, Cambridge, JPMorgan, Meketa, Mercer, NEPC, RVK, Verus, and Wilshire. Each of these firms provides capital market expectations for a 10-year horizon, 6 of them also provide expectations for longer horizons of 20-30 years. Capital market expectations can vary significantly from year to year and often are contrarian. The financial markets at the end of 2020 were particularly strong resulting in much lower expectations this year than in prior years. To adjust for year-to-year fluctuations, we also compare results to the 3-year average of GRS CMAMs.



Board of Trustees October 13, 2021 Page 3

### **Actuarial Opinion:**

For the June 30, 2021 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 the 2021 CMAM, the median rate of return is 5.35% over a 10-year horizon. As discussed, this year's expectations are much lower than prior years. The 3-year average median over a 10-year horizon is 6.51%.

Over the longer horizon of 20-30 years, the median rate of return is 6.46%. The 3-year average median over the longer horizon is 6.90%. The current NHRS net investment rate assumption of 6.75% is reasonable when compared to our 3-year medians of 6.51% - 6.90% and Callan's 6.10% - 7.30% 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.



Board of Trustees October 13, 2021 Page 4

### 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, Heidi G. Barry, and Casey T. Ahlbrandt-Rains are independent of the plan sponsor, 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, Gabriel, Roeder, Smith & Company

David To Fausch

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

Heidi H Barry, Heidi G. Barry, ASA, FCA, MAAA

any T. Alhadt For Casey Ahlbrandt-Rains, ASA, MAAA

DTK/HGB/CTA:ah



# Appendix C

Investment Manual

NHRS Investment Philosophy

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# NEW HAMPSHIRE RETIREMENT SYSTEM



**Investment Manual** 

# **Table of Contents**

# <u>Section I</u>

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

# Section II

Accountability Matrix

# Section III

 Independent Investment Committee Charter

# Section IV

# Investment Guidelines

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

# **SECTION I**

# **Investment Policy**

# New Hampshire Retirement System Investment Policy Amended by NHRS Board of Trustees on July 13, 2021

#### 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. <u>Credit Risk</u>: 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. <u>Counterparty risk (default risk)</u>: 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. <u>Liquidity Risk</u>: 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. <u>Market Risk</u>: 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. <u>Systemic Risk:</u> Risk that affects an entire financial market or system, and not just specific asset classes. Systemic risk cannot be avoided through diversification.
- F. <u>Absolute Risk</u>: Risk of loss of capital.
- G. <u>Volatility Risk</u>: The variability of returns often used as a proxy for risk.

- H. <u>Operational Risk</u>: 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. <u>Geo-Political Risk</u>: 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. <u>Political Risk</u>: The risk of nationalization or other unfavorable government action.
- K. <u>Idiosyncratic Risk</u>: Firm specific risk or the risk of the change in price of a security due to the unique circumstances of that security.
- L. <u>Benchmark Risk:</u> The risk that an investment may outperform or underperform its target return.
- M. <u>Interest rate risk:</u> 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. <u>Inflation risk:</u> The risk that rising inflation may erode the value of income and/or assets.
- O. <u>Currency risk:</u> 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. <u>Timing risk:</u> 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. <u>Concentration risk:</u> 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 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%.

Asset Class	Target Allocation	Allocation Range
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:

<u>Domestic Equity</u>: 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.

<u>Non-U.S. Equity:</u> 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.

<u>Fixed Income</u>: 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.

<u>Real Estate:</u> 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.

<u>Alternative Investments:</u> 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.

Asset Class	Benchmark
Domestic Equity	Russell 3000 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 Private Debt	S&P 500 Index + 3% 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 netof-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 <u>Russell 3000 Index</u> measures the performance of the largest 3,000 U.S. companies, representing approximately 98% of the investable U.S. equity market.
- B. The <u>MSCI ACWI (All Country World Index)</u> 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 <u>Barclays Capital U.S. Universal Index</u> 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 <u>Barclays Capital U.S. Aggregate</u> 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 <u>National Council of Real Estate Investment Fiduciaries (NCREIF) Fund</u> <u>Index Open-End Diversified Core (NFI-ODCE)</u> 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. <u>Alternative Investments</u> are non traditional investments, not covered by another investment class (e.g. private equity/private debt and opportunistic strategies)
- B. <u>American Depositary Receipts (ADRs)</u> are receipts for the shares of a foreignbased 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. <u>Commercial Mortgage Backed Securities (CMBS)</u> are multi-class bonds backed by pools of commercial mortgages.
- D. <u>Commercial Mortgage Lending</u> investments are notes and bonds secured by a mortgage or deed of trust providing first lien on real estate.
- E. <u>Derivatives</u> are financial instruments such as forwards, futures, options, or other instruments whose values are "derived" from another financial instrument.

- F. <u>Domestic Equity Securities</u> 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. <u>Domestic Fixed Income Securities</u> 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. <u>Emerging Market Equities</u> 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.
- 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. <u>Non-U.S. Equity Securities</u> 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. <u>Real Estate Mezzanine Funds</u> are investments in funds or partnerships whose portfolios consist of junior loans secured by real estate or partnership interests in real estate ownership.
- L. <u>Repurchase Agreements</u> 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. <u>Securities Lending</u> 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. <u>Short Term Investments (Cash Equivalents)</u> 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;
  - o 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 longterm 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**

operate as a going concern is uncertain.

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

#### **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 longterm 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 performancebased awards for its top executives

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

Generally vote **for** shareholder proposals requesting to establish a pay-for-superiorperformance 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.

#### **Depositary Receipts and Priority Shares**

Generally vote **against** the introduction of depositary 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 longterm 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**

# New Hampshire Retirement System Securities Litigation Policy Amended by NHRS Board of Trustees on January 14, 2014

#### 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 if 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.

<u>Exception:</u> 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>**

	Total Fund Investment	Toncy		Dimentan of			
F	unction	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,	Decides 100-A:15, I; I-a(b) & (c) & VII(c)	Provides advice/analysis		Provides advice/analysis	Provides
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	A:15, I-a(a) 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>&</sup>lt;sup>1</sup> Items in red are responsibilities dictated by statute.

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

F	unction	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>&</sup>lt;sup>2</sup> Items in red are responsibilities dictated by statute.

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

F	unction	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>&</sup>lt;sup>3</sup> Items in red are responsibilities dictated by statute.

# Fixed Income<sup>4</sup>

F	unction	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

 $<sup>{}^{\</sup>scriptscriptstyle 4}$  ltems in red are responsibilities dictated by statute.

# Real Estate <sup>5</sup>

	Keal Estate			Director of		
F	unction	Independent Investment Committee	Board	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.		Reviews quarterly A:15, I-a(b)(3); A:15, VII(c)(3)		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	

 $<sup>{}^{\</sup>scriptscriptstyle 5}$  ltems in red are responsibilities dictated by statute.

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

	Director of					
F	unction	Independent Investment Committee	Board	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>&</sup>lt;sup>6</sup> Items in red are responsibilities dictated by statute.

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

F	function	Investment Committee	Board	Director of Investments and Investment Staff	Legal Counsel	Investment Consultant
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

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

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

F	unction	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>&</sup>lt;sup>8</sup> Items in red are responsibilities dictated by statute.

#### **Proxy Voting**

I	Function	Investment Committee	Board	Executive Director or Director of Investments	Legal Counsel	Investment Consultant
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

		Investment		Executive Director or Director of		Investment
F	Junction	Committee	Board	Investments	Legal Counsel	Consultant
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 Depository Receipts and Shares, warrants, and rights) of U.S. and foreign issuers
- European Depository Receipts listed and traded on major U.S. exchanges and in over-thecounter 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
- Direct investments in Venture Capital
- 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 closely monitor instances where its investments represent a significant component of a commingled fund or total assets under management (AUM) at the strategy level. If the System's positions become more than 20% of any commingled investment fund, or total strategy AUM, Staff will notify the IIC and the investment will be monitored to see if any changes are warranted.

#### 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	The Lesser of:
	A 65% Minimum <u>or</u>
	The Index's Allocation

\* As a percentage of Non-U.S. Equity as defined by the MSCI ACWI ex-U.S. Index

**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 investments in real estate
- Direct investments in Venture Capital
- 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 closely monitor instances where its investments represent a significant component of a commingled fund or total assets under management (AUM) at the strategy level. If the System's positions become more than 20% of any commingled investment fund, or total strategy AUM, Staff will notify the IIC and the investment will be monitored to see if any changes are warranted.

#### **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	<b>Allocation Target*</b>			
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. TIPS, 144a securities with registration rights and permanent 144a securities are also permitted.

**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
- Direct investments in Venture Capital
- Direct investments in oil, gas, or other mineral exploration or development programs

#### **Concentration Limits:**

• The System shall closely monitor instances where its investments represent a significant component of a commingled fund or total assets under management (AUM) at the strategy level. If the System's positions become more than 20% of any commingled investment fund, or total strategy AUM, staff will notify the IIC and the investment will be monitored to see if any changes are warranted.

#### **Real Estate Investment Guidelines**

**Purpose**: The primary objective of real-estate investing is to seek superior risk-adjusted returns. Secondarily, 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.

<u>Strategic Portfolio (Core/Core Plus)</u>: 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.

<u>Tactical Portfolio (Non-Core)</u>: 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.

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

**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. Secondarily, 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 reduced exposure to technology risk compared with venture capital.
- 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.

- Distressed/Special Situations A strategy whereby a manager invests in the distressed debt of companies that likely will undergo some sort of financial and/or operational restructuring. A manager will usually build a controlling stake in a distressed company through the "fulcrum security" which is generally a high yield bond or bank debt. The investment team will then work actively to maximize the value of the investment through driving either an informal restructuring or a formal bankruptcy procedure. The balance sheet may be restructured; new management inserted; cost cutting implemented; as well as other operational improvements put in place. Distressed debt returns are generally comprised of a combination of a debt coupon; capital appreciation of the distressed security; and, participation in the upside of post-reorganization equity.
- Venture Capital Implies early, late and balanced-stages of financing, as well as growth capital, 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 senior or unitranche 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/Junior Capital An investment strategy involving subordinated debt (the level of financing tranche that is senior to equity but below senior debt). Capital supplied by mezzanine or junior capital 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.

- Structured Credit A private credit strategy which invests in assets such as pools of loans in the consumer, real estate and transportation space. Often, a manager of this strategy will originate or purchase a pool of loans; service them; and, in some cases, securitize them and sell securitized tranches to the market. Returns are driven by a combination of underlying loan coupon; value enhancement through servicing; and, upside through public market securitization.
- Specialty Finance A private credit strategy which generally provides growth capital in the form of senior secured loans to loan origination platforms such as mortgage; consumer debt and transportation leasing. These loans are securitized by a pool of underlying loans which are placed in a bankruptcy remote structure and pay amortize over time. Specialty finance lenders' returns are generated by a combination of a coupon and, in some cases, equity kickers in the underlying borrower. These loan pools may be securitized and sold into the public market.
- Royalty Finance A private credit strategy which provides debt financing to entities secured by the cash flow of royalty payments of a licensed product. For example, healthcare royalty strategies provide capital in the form of senior secured debt backed by predictable royalty payments from pharmaceutical or other medical devices. Music royalties' strategies, for example, provide debt which is backed by royalty payments from a particular portfolio of music recordings.
- Litigation Finance A private credit strategy which lends money to corporations or law firms to fund the cost of prolonged litigation, often contingent on a favorable payout. Financings may be pre-settlement in which returns are driven by a combination of a debt coupon and upside participation in one, or a diversified pool of legal cases. Litigation funding in the form of a loan may also be provided post a legal settlement. This this type of funding is used to bridge a payment expected by the law firm or other entity entitled to litigation proceeds.

#### Targets:

arget*

\* 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.



#### **Changes to the NHRS Investment Policy**

This document outlines changes to the NHRS Investment Policy since the founding of the Independent Investment Committee (IIC) under RSA 100-A:14-b, on January 1, 2009.

#### Assumed Rate of Return

The Board of Trustees (Board) approved the following based on recommendations of the IIC. All changes were effective starting July 1 of the fiscal year subsequent to approval.

- May 10, 2011: 8.50% to 7.75%
- May 10, 2016: 7.75% to 7.25%
- June 9, 2020: 7.25% to 6.75%

#### Asset Allocation Targets and Ranges

The Board adopted the following changes based on recommendations of the IIC. All changes were effective at the start of the month subsequent to approval.

- July 13, 2010:
  - $\circ$  Domestic Equity allocation range changed from 26 43% to 20 50%.
  - Non-U.S. Equity target allocation increased from 15% to 20% and the 5% target allocation to Global Equity was removed. The Non-U.S. Equity allocation range changed from 11 19% to 15 25%.
  - Fixed Income allocation range changed from 26 34% to 25 35%.
  - $\circ$  Real Estate range changed from 5 15% to 0 15%.
- September 11, 2012:
  - Fixed income target allocation was reduced from 30% to 25%. The allocation range changed from 25 35% to 20 30%.
  - Alternative Investments target allocation was increased from 10% to 15%. The allocation range changed from 0 15% to 0 20%.
- June 9, 2015:
  - $\circ$  Real Estate allocation range changed from 0 15% to 5 20%.
  - $\circ$  Alternative Investments allocation range changed from 0 20% to 5 25%.
- May 14, 2019:
  - U.S. Equity allocation range changed from 20 50% to 20 40%.

#### **Benchmark Changes**

The IIC approved the following changes which were subsequently reviewed by the Board. All changes were effective starting July 1 of the fiscal year subsequent to approval.

- April 24, 2015:
  - The U.S. Equity benchmark changed from the Russell 3000 Index to the S&P 500 Index.
  - The Real Estate benchmark changed from the NCREIF Property Index + 50 basis points to the NCREIF NFI-ODCE Index.
  - The Alternative Investments benchmark changed from the S&P 500 Index + 5% or Consumer Price Index + 5% to the following:
    - 33.3% Private Equity: S&P 500 Index + 3%.
    - 33.3% Private Debt: S&P/LSTA U.S. Leveraged Loan 100 Index.
    - 33.3% Opportunistic:1-month LIBID + 5%.
- May 14, 2019:
  - The Opportunistic benchmark was eliminated and the Alternative Investments benchmark was updated to the following:
    - 66.7% Private Equity (S&P 500 Index + 3%).
    - 33.3% Private Debt (S&P LSTA Leveraged Loan 100 Index).
- June 18, 2021:
  - The U.S. Equity benchmark changed from the S&P 500 Index to the Russell 3000 Index.

#### **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.