THE TENNESSEE CONSOLIDATED RETIREMENT SYSTEM INVESTMENT POLICY

ORGANIZATIONAL STRUCTURE AND GENERAL OVERVIEW

The Tennessee Consolidated Retirement System (TCRS) represents the pension plan for state employees, teachers, higher education employees, local government employees, and employees of other entities authorized to participate in TCRS. TCRS was established by state statute in 1972. The governing statute is found in Tennessee Code Annotated 8-34-101, et seq.

Final authority for investing and reinvesting the assets of the Tennessee Consolidated Retirement System (System) is vested in the System's Board of Trustees (Board). T.C.A., Section 8-37-104(a). Implementation of investment policy established by the Board is hereby delegated to the State Treasurer (Treasurer) who shall put such policy into effect. T.C.A., Section 8-37-110. Assets shall be invested subject to all the terms, conditions, limitations, and restrictions imposed by the laws of the State of Tennessee upon domestic life insurance companies in the making and disposing of their investments or as otherwise provided by state law. T.C.A., Section 8-37-104(a). If the Board has issued other directions further limiting such investments, the assets shall be invested according to the criteria established by the Board.

Mission Statement

The mission of the Tennessee Consolidated Retirement System is to provide superior services to constituents in a cost-effective manner through qualified personnel while maintaining the highest ethical standards. The assets of TCRS are invested solely in the interest of plan participants and beneficiaries for the exclusive purpose of providing the statutory retirement and other benefits to plan participants and beneficiaries.

Legal Counsel

The State Attorney General or an assistant designated by him shall be the legal advisor to the Board in all matters. In all cases where the interests of the System require additional counsel to the Attorney General, the Chairman of the Board, with approval of the Attorney General, is authorized to employ such additional counsel. T.C.A., Section 8-34-308.

Investment Advisory Council

The Treasurer shall nominate, with the advice and consent of the Board, an Investment Advisory Council (IAC), consisting of up to seven persons who have experience as investment portfolio managers, economists, or investment advisors to work with the Treasurer's investment staff, T.C.A., Section 8-37-108, to advise the Board on investment policy, T.C.A., Section 8-37-109.

The Council will assist the Treasurer, Chief Investment Officer and Investment Staff by providing advice and recommendations on the most appropriate short, intermediate and long-term investment strategy. At each meeting of the Council, the previous meetings' recommendations will be reviewed and reinforced or changed as agreed upon by the Council Members.

Chief Investment Officer (CIO)

The Chief Investment Officer for the System's assets will assume the necessary authority, as granted by the Treasurer, to effectively manage the Investment Staff. He shall report to and consult with the Council in formal, scheduled meetings and informally as needed.

The Chief Investment Officer shall:

- Have executive responsibility and authority, as delegated by the Treasurer, for the management of the assets of the System in keeping with such guidelines and policies as approved by the Board and such applicable laws of the State of Tennessee.
- 2. Prepare and submit reports, as required, to the Treasurer, the Council, and the Board to document investment activities.
- Report to and consult with the Treasurer on administrative, organizational and investment activities.
- 4. Work with the Council on development and implementation of an appropriate investment strategy.
- 5. Work jointly with the Council to develop long-term economic and investment projections.
- 6. File with the Treasurer a disclosure statement as prescribed by the Treasurer each year in December.

Investment Staff

The Treasurer, in consultation with the Chief Investment Officer, shall maintain an Investment Staff to effectively manage all assets of the System. The Treasurer may delegate to the Chief Investment Officer and such staff the power to invest and reinvest the System's assets within criteria established by the Board. T.C.A., Section 8-37-105. Investment Staff will perform their duties in compliance with the Chartered Financial Analyst Institute's Code of Ethics and Standards of Professional Conduct. Each member of the Investment Staff shall file with the Treasurer a disclosure statement as prescribed by the Treasurer each year in December.

Each member of the investment staff shall act with the same care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a similar capacity and familiar with those matters would use in the conduct of a similar enterprise with similar aims.

Reporting

The Investment Staff shall provide a detailed written review of investment activity at Board and Council meetings. This shall include a review of the purchases and sales over the period under review, a portfolio summary, a review of current investment policy, and other reports as requested.

Internal Controls

The CIO shall maintain a system of internal controls to safeguard the assets of the System. Such controls shall include, but not limited to, assurance that financial assets are held in trust at a third party custodial financial institution, and that an independent consultant or master custodial financial institution calculate investment performance independent from the internal records of TCRS.

The Treasury department's accounting division and internal audit division shall report to an executive management employee other than the CIO.

Brokerage Firms

All brokerage firms (for stock and all other securities) shall be selected for use according to their financial standing, execution capabilities, underwriting capabilities, research capabilities, price and other services provided to the System.

Consultants

The Treasurer in conjunction with the CIO may engage the services of investment consultants as necessary to manage the assets of TCRS. The Board delegates to the Treasurer the responsibility to determine the duties and responsibilities of the consultant with such enumerated in a contractual agreement.

External Managers and Advisors

The Treasurer in conjunction with the CIO may engage the services of investment professionals to actively manage the international stock portfolio and the real estate portfolio. The Board delegates to the Treasurer the responsibility to determine the duties and responsibilities of investment professionals with such enumerated in a contractual agreement.

Master Custodian Financial Institution

The Treasurer in conjunction with the CIO may engage the services of a master custodian financial institution to hold in trust the financial assets of TCRS and to process trade transactions. The Board delegates to the Treasurer the responsibility to determine the duties and responsibilities of the master custodian financial institution with such enumerated in contractual agreement.

Proxy Voting

It is the general policy to vote proxies in a manner which will provide the best ultimate value to the shareholders of that entity. The Chief Investment Officer will develop and maintain a proxy voting policy, and review such policy annually with the Council. In voting all proxies, the investment staff will:

- 1. Analyze the economic consequences of the options presented to them as shareholders, and select the option most likely to protect and enhance the value of the System's assets.
- 2. Document the votes (and other actions and decisions) along with the reasons for taking the action chosen. This includes maintaining a record of all attempts to solicit proxies, from outside or inside the organization.
- 3. The Chief Investment Officer should consult with the Council on any particularly difficult proxy questions.

Commission Dollar Arrangements

The Treasurer is hereby given approval and is authorized to obtain investment research services permitted by Section 28(e) which amends the Securities and Exchange Laws of 1934 through use of commission dollars; provided, however, that best execution of all trades shall continue to be the overriding principle in determining the broker to be used in executing any transaction. The Treasurer shall annually disclose to the Board significant provisions of each commission dollar arrangement existing on June 30 of each year. The Treasurer shall, within a reasonable period of time, disclose to the Board any new commission dollar arrangement entered into as well as other information requested. Only those research goods and services which directly enhance the investment decision-making process and which do not have a non-investment capability shall be eligible for procurement through commission dollar arrangements. Goods and services specifically permitted include performance evaluation services, securities pricing services, quotation and trading information services and analytical databases as well as technical publications which directly enhance the investment decision-making process.

No good or service may be procured through commission dollar arrangements if such good or service benefits an employee in an individual capacity. Goods and services specifically prohibited from procurement through use of commission dollar arrangements include direct telephone lines to brokerage firms, personal computers or other office equipment, payment of travel related expenses and payment of cost of attending seminars, classes or other investment training activities. The Treasurer shall develop and implement a structured review and approval process to ensure that commission dollar arrangements entered into pursuant to this policy comply with the provisions stated herein. Any commission dollar arrangement in which commission commitment is made by the System shall be evidenced by a written agreement which specifies the nature and extent of the commission commitment as well as other significant provisions of the arrangement.

INVESTMENT POLICY AND OBJECTIVES

Preservation of principal value is the primary objective in managing the System's assets. Within acceptable risk levels, achieving a superior return (both income and appreciation) is the second objective for the Fund. A third objective is to provide the liquidity needed by the System to pay beneficiaries in a timely manner. These objectives are adopted to seek actuarial soundness of the plan in order to meet benefit obligations.

Preservation of Principal Value

Recognizing that potential investment return is proportionate to the amount of risk taken, investment in high quality assets shall be favored over those more risky investments that, if successful, can pay a higher return. In addition to limiting investments to higher quality financial assets, a diversified portfolio shall be maintained to further reduce exposure to loss. Although the risk parameters imposed by state law shall be followed, the Investment Staff may choose to further restrict the financial criteria, depending on the overall state of the economy and upon advice of the Council.

Investment Return

The System's assets should be managed actively to attain, within acceptable risk limitations, a return on assets that will meet beneficiary payments as required. Return shall include both current income and capital appreciation. The investments of the System shall be diversified so as to minimize the risk of large losses, unless under particular circumstances it is clearly prudent not to do so. The total return objective of the system shall be to exceed the returns as set out under the "Performance Measurement" section of this policy.

Liquidity for System Beneficiary Payment

It appears that contributions to the Fund will be sufficient to meet beneficiary payments for some time. Continual review of the System should be conducted to assure that investments providing income for liquidity needs are purchased as the System matures.

Asset Allocation

Allocation Range

The chief investment officer is permitted to make investments within the following ranges:

<u>Asset Class</u>	<u>Minimum</u>	<u>Maximum</u>
Domestic Stocks	20%	50%
Domestic Bonds	20%	60%
Inflation Indexed Bonds	0%	15%
Short-term Securities	0%	10%
International Bonds	0%	10%
International Stocks	5%	25%
Real Estate	0%	5%

Rebalancing

Should an asset class fall below the minimum percentage or exceed the maximum percentage, the chief investment officer is expected to rebalance the portfolio to bring the asset class within the minimum / maximum range within 90 days.

Performance Measurement

To provide the Investment Staff and the Board with guidance as to investment performance expectations, the following performance measurement standards are established. These standards are to act as guides in determining whether the Fund and individual asset classes are achieving their long term goals, both in relationship to the System's peer group of other public funds and the marketplace in general. In recognition of the System's long-term perspective, these standards are to be measured through use of a five-year rolling average. This serves to reinforce the System's bias against investment decisions designed to show short-term gain at the expense of long term performance.

Total Fund Performance Measurement Standards

This set of standards is designed to measure the performance of the Fund in total, including the impact that state law, investment policy restrictions and asset allocation decisions may have on the performance of the Fund. Given the current state law, investment policy and asset allocation parameters, the following standards are considered reasonable expectations for the total Fund:

The Fund's overall annualized total return should exceed the return available from a policy of investing in an index fund of the following:

Asset Class	Index	Weight
Domestic Stocks	S&P 1500	35%
Domestic Bonds	Citigroup Broad Investment Grade Index	35%
Inflation Indexed Bonds	Citigroup TIPS Index	5%
Short-term Securities	91-Day U.S. Treasury Bills	3%
International Bonds	Citigroup Non-U.S. G-5 Govt. Bond Index	3%
International Stocks	MSCI EAFE	15%
Real Estate	NCREIF Property Index	4%
	TOTAL	100%

The Total Fund should rank in the upper 50 percentile compared to the results of other similarly managed public fund portfolios measured over rolling five-year periods.

Asset Class Performance Measurement Standards

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Each asset class is currently actively managed by the System. Since an alternative to active management exists in the form of index funds, it is proper to measure the System's performance against the most appropriate index for each asset class to determine the "value added" over time by active management. As asset classes change, indices should be reviewed to ensure that proper comparisons are being made. The above indices provide for appropriate comparison to the System's current asset classes.

INVESTMENT CRITERIA

Both the Board and the Investment Staff are aware of the desirability of investing within the State of Tennessee whenever quality, risk, diversification and potential return are equal to or greater than that available on like investments outside the state. The Investment Staff should encourage and be receptive to Tennessee financial proposals. However, both the Board and the Investment Staff are aware of the fiduciary responsibility of investing pension assets and should not make any investment based solely on its location in Tennessee when quality, risk, diversification, or potential return are sacrificed. T.C.A., Section 35-3-117(b). Further, the Board will not approve investment proposals designed to benefit special political, social, or economic subgroups within or external to the System's beneficiaries unless they clearly meet all fiduciary standards of investing.

In determining compliance with the percentage limitations of this policy, the assets of the System shall be valued at their market value. Accordingly, an investment may be made on any given day provided such investment does not cause any applicable limitation prescribed in this policy to be exceeded on such day. T.C.A., Section 8-37-104(b).

Common, Preferred Stock and Convertible Bonds

Growth is important to the System to attain a return that will allow for greater participant benefits and/or lower state funding requirements. Equity investments will be used to seek this growth through potential dividend increases and capital appreciation. The System will limit its investment in common and preferred stock to 75% of the System's total assets. T.C.A., Section 8-37-104(a)(1). Convertible bonds also will be counted as an equity investment and included in this limitation. The System's stock portfolio shall be actively managed by the Investment Staff to obtain a superior return. The stock of smaller, emerging companies, including new issues, should be an integral part of the total portfolio. Not more than 4.99% of the outstanding shares of any one issuer shall be purchased. Any stock purchase which does not meet the statutory definition for domestic life insurance companies shall be considered purchased under the basket clause as permitted by statute.

Notes, Bonds, and Mortgages

Public issues of notes and bonds shall make up the majority of fixed income investments. It will be necessary to actively manage this sector of the portfolio in times of volatile interest rate swings to either shorten the average maturity to protect principal value or lengthen maturities to lock up a long-term stream of income. The only issues subject for purchase are investment grade bonds (four highest ratings) as rated by one of the recognized rating agencies. Issues of any agency of the federal government or any entity with the express or implied backing of the U. S. Treasury shall be considered as holding the highest possible rating. The total sum invested in notes and bonds and other fixed income securities exceeding one (1) year shall not exceed seventy-five percent (75%) of the total funds of the System. T.C.A., Section 8-37-104(a)(2).

Private Placements

Any debt issues purchased which do not have an active secondary market shall be thoroughly researched from a credit standpoint and shall be viewed by the Investment Staff as having the credit quality equivalent of an AA rating on a publicly traded issue. Not more than 15% of the total fixed income portfolio shall be placed in private placements. Private placements may be considered for purchase when they yield a return over equivalent quality public issues that are sufficient to compensate for their lack of marketability. Except in the case of notes purchased by the System pursuant to standby note purchase agreements wherein the System receives a market rate of return, tax exempt securities of any state are not considered a prudent investment for the System.

Stock Options

Call options may be written on stock positions owned by the System. Options should not be written on more than 10% of the total stock portfolio. Options may not be purchased but positions can be closed out. Rules and Regulations of the State of Tennessee, Chapter 0780-1-32.

Bond Futures

The Investment Staff may write call options on U.S. Treasury bond futures, provided such options are not written on more than 10% of the total assets in the System's portfolio. T.C.A., Section 56-3-303(a)(15).

Domestic Stock Index Futures

The System may purchase or sell domestic stock index futures contracts for the purpose of making asset allocation changes in a more efficient and cost effective manner, and to improve liquidity. Such futures contracts shall be subject to the following terms and conditions:

- The Investment Staff will not enter into futures transactions for the purpose of speculative leveraging. Speculative leveraging is defined as buying financial futures where the amount of the contract obligation is an amount greater than the market value of the System's cash and short-term securities.
- 2. The total amount of the System's financial futures contract obligation should not exceed five percent (5%) of the market value of the System's total assets.
- 3. The sum total of the domestic equity portfolio together with the value of the stock index futures contract obligation should be within the asset allocation range for domestic equity securities. While stock index futures contracts are outstanding, the Investment Staff shall maintain a comparison of the System's equity asset allocation against its invested position including futures contracts.
- 4. The System may use cash and obligations of the U.S. government or any of its agencies to meet the variation margin requirement.

- 5. The only stock indexes upon which financial futures contracts may be written are as follows: S&P 600 Index, S&P 500 Index, S&P Midcap 400, and Russell 2000 Index.
- 6. Futures transactions will be conducted with only a few of the highest quality domestic money center banks and domestic brokerage firms. The criteria to be used in selecting such banks and brokerage firms should include, but should not be limited to, their experience and expertise in the financial futures market.
- 7. A transaction record shall be maintained which contains the following:
 - a) The amount of stock index futures contracts purchased and the reason therefor.
 - b) The amount of stock index futures contracts sold and the reason therefor.
- 8. The Investment Staff shall submit a quarterly financial futures report to the Board. This report will describe with specificity the financial futures transactions during the previous quarter. The report shall summarize the investment strategies employed during the period reviewed and the proposed strategy for the present quarter. Each report shall list the banks and brokerage firms authorized to conduct financial futures transactions with the System. T.C.A., Section 8-37-104(a)(7).

Short-term Investments

All monies waiting to be placed in a more permanent investment should be actively managed to obtain the best return available. Yield should be sacrificed for safety in short-term investments, and thus only the highest quality short-term debt issues should be purchased. These investments can include both publicly and privately negotiated short-term borrowing agreements. Commercial paper should be rated in the highest tier by all rating agencies which rate the paper. Rating modifiers (+, -) should not be considered when determining the highest rated tier. A minimum of two ratings is required. Commercial paper cannot be purchased if a rating agency has the commercial paper on a negative credit watch. Commercial paper cannot have a remaining maturity of more than 180 days from the date of purchase. The maximum amount of a specific corporation's commercial paper that can be purchased is \$100 million, but commercial paper maturing on the next business day shall not apply to this limit. A credit analysis report shall be prepared on a corporation before the corporation's commercial paper can be acquired. A credit analysis report should include a company profile, business description, financial profile, rating information, strengths and opportunities, weaknesses and threats, and an outlook and recommendation.

Securities Lending

Both debt and equity securities may be loaned for a fee to a select few of the highest quality securities firms and banks. Loans shall be limited so that the total amount of the securities lent does not exceed 30% of the market value of the total assets in the System's portfolio. Eligible collateral shall be required for each loan. For purposes of this provision, eligible collateral means:

1. Bonds, notes, and treasury bills of the United States or other obligations guaranteed as to principal and interest by the United States or any of its agencies;

2. Obligations guaranteed as to principal and interest by the Federal Home Loan Mortgage Corporation, Federal National Mortgage Association, Student Loan Marketing Association and other United States government sponsored corporations or enterprises; and

3. Cash.

Securities received as collateral shall have a market value of at least 102% of the market value of the security loaned. Cash received as collateral shall have a value of at least 100% of the market value of the security loaned. Collateral should be closely monitored. Securities collateral should be marked to market each business day so that the aggregate market value of the collateral allocated to all then outstanding loans to a single security firm or bank equals 102% of the market value of such loans and the interest accrued thereon. If at any time the aggregate market value of the securities collateral allocated to all then outstanding loans to a single security firm or bank is less than 100% of the market value of such loans, more collateral should be requested. Cash received as collateral may be invested by or on behalf of the System in any investment instrument in which the System's assets may be directly invested. Such cash may also be invested in short-term investment funds provided the portfolio of such funds contains only those investment instruments in which the System's assets may be directly invested. The Treasurer, through securities lending agreements, may further restrict the collateral requirement outlined in this policy. Securities lending agreements entered into shall be reviewed, commented upon, and approved as to form and legality by the Attorney General and Reporter. T.C.A., Section 8-37-104(a)(6).

Standby Note Purchase Agreement

The System may enter into contracts to serve as a standby note purchaser for the Tennessee State School Bond Authority, the Tennessee State Funding Board and the Tennessee Local Development Authority provided said contracts contain the following provisions:

- 1. The System receives an annual commission representing a fair market value fee, adjusted for any additional cost incurred by the state agency due to the System serving as the standby note purchaser.
- 2. If called upon to purchase such notes, the System receives a market rate of return exceeding the prime rate.

T.C.A., Section 8-37-104(a)(8).

International Investments

An amount not to exceed 25% of the System's total assets may be invested in the international markets of those countries included in the Morgan Stanley Capital International (MSCI) EAFE index for developed markets excluding any emerging market countries. Such securities must be actively traded in a public market and be of the same kinds, classes and investment grades otherwise eligible for investment. T.C.A., Section 8-37-104(a)(3).

Foreign Currency Hedging

The System may engage in forward contracts to hedge the foreign currency exposure of the fund under the following guidelines:

- 1. The overall strategy will be a tactical defense designed to reduce risk and protect the System's international portfolio from a strong dollar.
- 2. The foreign currency exposure will be hedged by selling and purchasing currency using only forward contracts.
- 3. The allowable currencies for hedging purposes are limited to the currencies of those countries authorized pursuant to this policy.
- 4. Portfolio currencies may be hedged no more than 80% of international portfolio exposure for any given currency based on market value.
- 5. Portfolio currencies may be sold for U.S. dollars only and not for another portfolio currency.
- 6. Hedging will be conducted through the System's custodial bank and a few of the highest quality money center banks and brokerage firms. T.C.A., Section 8-37-104(a)(5).

Canadian Investments

The System may purchase Canadian securities which are actively traded in a public market provided they are substantially of the same kinds, classes and investment grades as those otherwise eligible for investment. Such investments shall not be subject to the restriction imposed on international investments.

Real Estate

An amount not to exceed 5% of the market value of the total TCRS portfolio may be invested in real estate. The real estate investment portfolio of TCRS may include investments in direct real estate investments, commingled funds, group trusts, real estate operating companies ("REOCs"), partnerships, corporations, limited liability companies ("LLCs") or other collective investment vehicles or pooled investments as well as REIT's (private or public). At the time of acquisition, the minimum investment size for an individual property is \$5.0 million, unless the investment is part of an accumulation strategy of multiple properties in a given market or submarket. The maximum investment size in any one property shall be limited to one-half of one percent (0.5%) of the market value of TCRS' total assets.

TCRS shall invest primarily in substantially leased (i.e., 80% or greater leased at time of acquisition) institutional quality, well-located assets in the traditional property types: office, apartment, retail, and industrial. To avoid concentrations within certain property types and to ensure prudent diversification over the longer time periods, no investment may be made which would cause, at the time of acquisition, the market value of TCRS holdings in any single traditional property type to exceed 2.0% of the market value of TCRS' total assets.

TCRS shall limit real estate investments such that at the time of acquisition, no more than 1.0% of the market value of TCRS' total assets shall be invested in any single Standard Metropolitan Statistical Area ("SMSA"). All investments shall be limited to properties located in the United States. In any event, TCRS cannot acquire real estate located in the State of Tennessee unless such acquisition is in the shares or interests of a regulated investment company, mutual fund, common trust fund, investment partnership, real estate investment trust, or similar organizations or vehicles which are commingled and investment determinations as to which real estate assets to purchase or acquire are made by the investment sponsor or investment manager, or persons other than TCRS.

Real estate investment advisors (Advisor) are to be utilized by TCRS to locate, evaluate, acquire, manage and dispose of separate account direct real estate investments. TCRS shall limit its exposure to any single Advisor to mitigate potential advisor or firm specific risk. No Advisor, at the time of an acquisition, shall be permitted to asset manage more than 2.0% of the market value of TCRS' total assets.

TCRS may own such investments in its own name or, to the extent permitted by law, through title holding entities, and may transfer real estate properties from direct ownership to a title holding entity, or from a title holding entity to direct ownership, during the course of the holding period of the investment.

The Director of Real Estate shall develop comprehensive real estate investment guidelines (Real Estate Guidelines) that shall be approved by the Chief Investment Officer and the Treasurer.

Transactions to acquire and dispose of direct real estate properties are subject to approval of the investment committee of the Board of Trustees. The investment committee will not consider any acquisitions or dispositions until the Investment Advisory Council has reviewed the transaction and submitted its advice.

T.C.A, Section 8-37-104(a)(9).

THE BOARD OF TRUSTEES OF THE TENNESSEE CONSOLIDATED RETIREMENT SYSTEM ADOPTED THIS REVISED POLICY AT ITS BOARD MEETING ON JUNE 30, 2006.

DALE SIMS, CHAIRMAN
BOARD OF TRUSTEES
TENNESSEE CONSOLIDATED RETIREMENT SYSTEM