



INVESTMENT POLICY

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PURPOSE

The purpose of this policy is to set forth the investment objectives and parameters for the management of public funds of City of Lake Worth (hereinafter "City") cash surplus funds and reserves. These policies are designed to ensure the prudent management of public funds, the availability of operating and capital funds when needed, and an investment return competitive with comparable funds and financial market indices.

SCOPE

In accordance with § 218.415, Florida Statutes, this investment policy applies to the investment of public funds in excess of the amounts needed to meet current expenses, which includes cash and investment balances of the following funds:

- General Fund
- Special Revenue Funds
- Debt Service Funds
- Capital Project Funds
- Enterprise Funds
- Internal Service Funds
- Trust and Agency Funds
- Any new fund created by the governing body

The policy does not apply to the investment of principal, interest, reserve, construction, capitalized interest, and redemption or escrow accounts created by ordinance or resolution pursuant to the issuance of bonds where the investments are held by an authorized depository. Also, this policy does not apply to funds not under investment control of the City; such as Employee Pension Plans.

INVESTMENT OBJECTIVES

The following investment objectives will be applied in the management of the City's funds.

Safety of Principal

The primary objective of the Finance Director/City Manager or City Manager's designee's investment activities is the protection of City funds (preservation of capital). Investment transactions shall seek to keep capital losses to a minimum, whether they are from securities defaults or erosion of market value.

Maintenance of Liquidity

The second highest priority is liquidity of funds. The Finance Director/City Manager or City Manager's designee's investment strategy will provide sufficient liquidity to meet the City's reasonable anticipated cash flow requirements.

Return on Investment

The third highest priority is income. The optimization of investment returns shall be secondary to the requirements for safety and liquidity. Return of investment is of least importance compared to the safety and liquidity objectives described above. The core of investments is limited to relatively low risk securities in anticipation of earning a fair return relative to the risk

being assumed.

Diversification

The Finance Director/City Manager or City Manager's designee will seek to control credit and Market risks and diversify investments regarding specific security types, maturities and financial institutions. Diversification is important to ensure that potential losses on individual securities do not exceed the income generated from the remainder of the portfolio.

Credit Risk

Minimizing Credit Risk will be accomplished by limiting the maximum percentage that may be invested in any one entity or instrument at any one time, as outlined in this policy.

Market Risk

Risks of market price volatility shall be controlled through maturity diversification limitations established by this policy.

PERFORMANCE MEASUREMENT

Performance will be measured against the three month Treasury Bill rate of return.

PRUDENCE AND ETHICAL STANDARDS

The "prudent person" standard shall be used by investment officials in management of the overall investment portfolio. The Finance Director, his/her designee, or persons performing the investment functions, acting as a "prudent person" in accordance with these written policies and procedures, and exercising due diligence, shall not be responsible for an individual security's credit risk or market price changes provided that appropriate monitoring efforts are performed. The "prudent person" standard is herewith understood to mean the following:

Investments shall be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived from the investment.

The Finance Department staff involved in the investment process shall refrain from personal business activity that could conflict with proper execution of the investment program, or which could impair their ability to make impartial investment decisions. Also, employees involved in the investment process shall disclose to the Finance Director any material financial interests in financial institutions that conduct business with the City, and they shall further disclose any material personal financial/investment positions that could be related to the performance of the City's investment program.

DELEGATION OF AUTHORITY

Responsibility for the administration of the investment program is hereby delegated to the Finance Director or his/her designee, who shall establish investment procedures based on these policies. No person may engage in an investment transaction except as stated in the

Internal Control Section of the policy. The City may appoint an outside investment manager as "Agent" for the City's investments. (See Section "External Investment Manager".) Positions authorized as investment signatories are City Manager and Finance /Administrative Services Director. The Finance Director or his/her designee shall be responsible for the implementation of internal controls and monitoring the activities of subordinate staff.

SECURITY SELECTION PROCESS

When purchasing or selling securities the Finance Director or his/her designee shall select the security which provides the highest rate of return within the parameters of this policy, given the current objectives and needs of the City's portfolio. These selections shall be made utilizing one of the following methods:

1. Best Execution, wherein the City solicits quotes from a minimum of three firms.
2. Comparison to the current market price as indicated by one of the market pricing resources available to the City (such as the City's financial advisors, the Wall Street Journal, or a comparable nationally recognized financial publication providing daily market pricing.)
3. The City shall avoid conflicts of interest in the selection of institutions used for all City investments.

In most situations, the City or its agent shall utilize Best Execution to select the securities to be purchased or sold. Selection by comparison to a current market price, as indicated above, shall be utilized when, in the judgment of the investment staff, competitive bidding would inhibit the process to select the securities to be purchased or sold.

AUTHORIZED INVESTMENTS

No investment shall be made using City funds unless the authorized investment is listed in this Section. For the purpose of calculating portfolio mix, the City considers the funds managed internally by staff to be a separate portfolio from the funds managed by any external investment manager.

Funds of the government of the City may be invested in the following:

- A. U.S. Treasury Bills, Notes and Bonds
 - Maximum maturity shall be five years or less
- B. Insured or fully collateralized Certificates of Deposit of banks
 - Must be a registered public funds depository in the State of Florida
 - Maturities of three years or less
- C. Bonds, debentures, notes or callables issued or guaranteed by the United States Government's agencies, provided such obligations are backed by the full faith and credit of the United States Government
 - Maximum maturity shall be five years or less
- D. Bonds, debentures, notes, mortgage backed, or callables issued or guaranteed by United States Government sponsored agencies and enterprises (Federal

Instrumentalities) and credit agencies limited to the following:

- Federal Farm Credit Bank (FFCB)
 - Federal Home Loan Bank or its City Banks (FHLB)
 - Federal National Mortgage Association (FNMA)
 - Federal Home Loan Mortgage Corporation (FHLMC) including Federal Home Loan Mortgage Corporation participation certificates
 - Maximum maturity shall be five years or less
- E. State Board of Administration local government surplus funds investment pool (PRIME fund).
- F. State Board of Administration intermediate term investment pool.
- G. Money Market Accounts placed with financial institutions qualifying as public depositories as provided for in Chapter 280, Florida Statutes.
- H. Money Market Funds comprised of securities issued directly by the U.S. Government or agencies or sponsored enterprises of the U.S. Government
- I. Repurchase Agreements
1. Term Repurchase Agreements negotiated directly by the City collateralized by U.S. Treasury Securities and marked-to-market.
 - Any authorized institution with which the City transacts repurchase agreements must have on file a fully executed copy of a City Master repurchase agreement (to be established by the City prior to entering into any Term Repurchase Agreement). All repurchase agreement transactions shall adhere to the requirements of a City Master Repurchase Agreement.
 2. Overnight (sweep) Repurchase Agreements utilized by the City's' Investment Trust Company collateralized by full faith or general faith and credit obligations of the United States Government.
 - Securities used as collateralization for the overnight (sweep) Repurchase Agreement will be held for the benefit of the City with a third party, the Federal Reserve Bank or the contracted bank's correspondent bank in an amount not less than 102% of the overnight amount of the Repurchase Agreement.
- J. Securities of, or other interests in, any open-end or closed-end management type investment company (mutual fund) or investment trust registered under the Investment Company Act of 1940, 15 U.S.C. ss. 80a-1 et seq., as amended from time to time, provided the portfolio of such investment company or investment trust is limited to United States Government obligations and to repurchase agreements fully collateralized by such United States Government obligations and provided such investment company or investment trust takes delivery of such collateral either directly or through an authorized custodian.
- K. Inter-Fund Loans permitted under the City's Comprehensive Financial Policies.

EXISTING INVESTMENTS

Any investments currently held that do not meet the guidelines of this policy shall be exempted from the requirements of this policy. At maturity or liquidation, such monies so invested shall be reinvested only as provided for in this policy.

Maturity and Liquidity Requirements

- A. To the extent possible, an attempt will be made to match investment maturities with known cash needs and anticipated cash flow requirements. Investments of current operating funds shall have maturities of no longer than twenty-four (24) months. Investments of bond reserves, construction funds, and other non-operating funds shall have a term appropriate to the need for funds and in accordance with debt covenants, but in no event shall exceed ten (10) years. The maturities of the underlying securities of a repurchase agreement will follow the requirements of the Master Repurchase Agreement.
- B. The Finance staff's investment policy is to "buy and hold" but the maturity composition of the portfolio and the general economic conditions will be evaluated to determine if a replacement investment would be advantageous. Accounting losses may be incurred in this situation if an economic gain is achieved. The portfolio maturity may be shortened or extended dependent on interest rate projections or the portfolio quality may be improved by reducing the maturity or risk of security.
- C. Investments do not necessarily have to be made for the same length of time that the funds are available. The basic criteria for consideration for investments are listed below:
 - 1. Keep maturities short in a period of constantly rising interest rates based on treasury bill auctions or the daily Federal Funds rate and also keep maturities short in a period of an inverted treasury yield curve (short-term rates are higher than the long-term rates).
 - 2. Maturities should be lengthened when the treasury yield curve is normal and is expected to remain that way based on economic reports taken as a whole. The yield curve is normal when short-term rates are lower than long-term rates.
 - 3. Maturities should be lengthened when interest rates are expected to fall based on economic reports taken as a whole.
 - 4. The yield curves of the market should be analyzed for significant breaks in yields over various maturity dates. The points at which the yield curve breaks are the points at which there are significant marginal declines in yields for incremental changes in the maturity dates. Investments should be made at these breaks in the yield curve so that yields will be maximized.

PORTFOLIO COMPOSITION

Prudent investing necessitates that the portfolio be diversified as to instruments and dealers. The following are guidelines for investments and limits on security issues, issuers, and maturities as established by the Finance staff. The Finance Director/City Manager or City Manager's designee shall have the option to restrict or increase investments from time to time based on market conditions. Purchases of investments based on bond covenant requirements shall not be included in the portfolio's composition calculations.

PORTFOLIO COMPOSITION AND ASSET ALLOCATION (excludes Bond Funds, Pension Plans, & OPEB Trust)			
Authorized Investment Description	Maximum Portfolio Allocation	Maximum Maturity	Issuer Limit
State Board of Administration (SBA) Fund A (PRIME) -LGIP EXCEPTION: Temporary investment of bond proceeds or other extraordinary receipt of funds, until a permanent investment can be made. A permanent investment shall be made within ten (10) business days	25%	N/A	None
State Board of Administration (SBA) Fund B-LGIP	25%	N/A	None
US Treasuries	100%	60 months	None
Federal Agencies	50%	60 months	40% (NA)
Bank Certificates of Deposits (CDs)	25%	36 months	20% (NA)
Federal Instrumentalities (GSA)	80%	60 months	30% (NA)
Mutual Funds	25%	36 months	15%
Money Market Funds	25%	N/A	None
EXCEPTION: Temporary investment of bond proceeds or other extraordinary receipt of funds, until a permanent investment can be made. A permanent investment shall be made within ten (10) business days			
Repurchase Agreements Exception	10%	60 days	25%

Repurchase Agreements - The securities authorized for collateral shall be negotiable direct obligations of the US Government and Federal Instrumentalities with maturities and market values as shown below:

Maturity of Purchased Securities	U.S. Treasury Securities & Other Full Faith & Guarantee of the U.S. Treasury Securities	U.S. Agency Discount & Coupon Securities*	Mortgage-backed or other Securities
Under 1 Year	102%	102%	103%
1 to 5 Years	102%	103%	104%
Over 5 years	103% (102.5%)	104%	105%

* Securities issued by FNMA, FFCB, FHLB; quoted daily in the Wall Street Journal

RISK AND DIVERSIFICATION

Assets held shall be diversified to control the risk of loss resulting from over-concentration of assets in a specific maturity, issuer, instrument, dealer, or bank through which these instruments are bought and sold. Diversification strategies within the established guidelines

shall be reviewed and revised periodically as necessary by the appropriate management staff.

AUTHORIZED INVESTMENT INSTITUTIONS AND DEALERS

The Finance Director/City Manager or City Manager's Designee shall only purchase certificates of deposit from financial institutions which are qualified as public depositories by the Treasurer of the State of Florida. Repurchase agreements shall only be entered into with primary securities dealers and financial institutions which are state qualified public depositories. The Finance Director or his/her designee will require the Master Repurchase Agreement to be executed prior to any repurchase transactions.

Brokers/Dealers

The City may utilize dealers designated as "Primary Securities Dealers" by the Federal Reserve Bank of New York, for purchases and sales of securities. The City may also utilize non-primary securities (regional) dealers. All securities traded with approved broker/dealers must be DTC eligible. DTC eligible securities are delivered through a computerized system established by the Depository Trust Company instead of physical delivery. DTC eligibility assures proper security delivery. All securities purchased by the City under this policy shall be purchased using the "Delivery Versus Payment" procedure. Both primary and non-primary dealers must qualify under Securities and Exchange

Commission Rule 15C3-1 (uniform net capital rule). The firms must provide the following information prior to executing investment trades with the City:

1. Audited annual financial statement.
2. Regulatory history, through either the Office of the Comptroller or the Currency for dealer banks, or the NASD (CRD) for securities firms.
3. Statement of any pending lawsuits materially affecting the firm's business.
4. Proof of state registration.

EXTERNAL INVESTMENT MANAGER

Purpose

The purpose of this section is to set forth the policy and objectives governing the City's use of external investment managers. The outside investment manager for the City is required to adhere to all of the principals as set forth by the City Investment/Portfolio Policy concerning; purpose, scope, objectives, prudence, internal controls, safekeeping and custody, accounting methods, debt service and bond covenants requirements, diversification, liquidity, credit risk, market risk and reporting requirements.

Monitoring and Adjusting the Portfolio

The external investment officer will constantly monitor the contents of the portfolio, the available markets and the relative values of competing securities and will adjust the portfolio accordingly. The external investment manager is required to provide the City with a confirmation of each transaction executed within each calendar month by providing the Finance Department with a calendar month statement detailing each investment transaction and a summary of all monthly accumulated investment transactions. The confirmations should include all information necessary to allow the City to accurately monitor the activity of the external investment officer for compliance

purposes (including purchase price, coupon, premium/discount, investment / transaction costs and the effective yield of the investment at the time of purchase and compliance with this policy).

Authorized Investments

The external investment manager may invest only in the authorized investments instruments, listed above.

Due Diligence Requirements

Attachment B is a questionnaire that contains a list of questions, to be answered prior to investing, that cover the major aspects of any investment pool/fund. Additionally, a current prospectus or equivalent documentation, including an Investment Policy, Financial Statements, and Portfolio Holdings must be obtained.

Accounting Methods

Investments will be carried at market value. Gains and losses from investments will be credited or charged to investment income at the time of sale. The external investment manager is restricted from executing a trade that will realize a "Net Loss" in any of the City's accounts without written authorization from the City Manager. A "Net Loss" is defined as any sale in which the principal loss realized on the sale of a security, in an account, is greater than the income (including accrued income) generated by that individual account during the City's fiscal year. Premiums or discounts on securities may be amortized over the life of the securities. The City shall comply with Government Accounting Standards Board (GASB) requirements for reporting fiscal year end investment balances.

Performance Evaluation

The external investment manager's performance shall be measured at least annually based on the total return of the portfolio. The City will evaluate the investment manager by comparing results during the City's fiscal year to a benchmark index. The benchmark index will be calculated using a weighted average of three month U.S Treasury Bills or some other reasonable comparative balance.

Fees

All fees will be determined annually in advance based on the City's fiscal year ending September 30.

THIRD PARTY CUSTODIAL AGREEMENTS

All securities, with the exception of certificates of deposits, shall be held with a third party custodian; and all securities purchased by the City should be properly designated as an asset of the City. The Finance Director/City Manager or City Manager's designee's will execute a Third-Party Custodial Safekeeping Agreement with a commercial bank or the commercial bank's trust department. A third party custodian is defined as any bank depository chartered by the Federal Government, the State of Florida, or any other state or territory of the United States which has a branch or principal place of business in the State of Florida as defined in § 658.12 Florida Statutes, or by a national association organized and existing under the laws of the United States which is authorized to accept and execute trusts and which is doing business in the State of Florida. Third party agents will maintain participation in SIPC. Certificates of deposits maintained by book-entry at the issuing bank shall clearly identify the City as the owner. All

securities purchased and/or collateral obtained by the City shall be properly designated as an asset of the City and held in safekeeping by the custodian and no withdrawal of such securities, in whole or in part, shall be made from safekeeping except by an authorized Finance staff member. The Third-Party Custodial Safekeeping Agreement shall include letters of authority from the Finance Director/City Manager or City Manager's Designee's, details as to responsibilities of each party, notification of security purchases, sales, delivery, repurchase agreements, wire transfers, safekeeping and transactions costs, procedures in case of wire failure or other unforeseen mishaps including liability of each party.

MASTER REPURCHASE AGREEMENT

The Finance staff will require all approved institutions and dealers transacting repurchase agreements to execute and perform as stated in the Master Repurchase Agreement. All repurchase agreement transactions will adhere to requirements of the Master Repurchase Agreement.

BEST EXECUTION BID POLICY

After the Finance Director or Finance Directors Designee has determined the approximate maturity date based on cash flow needs and market conditions and has analyzed and selected one or more optimal types of investment. The Best Execution method will be used to purchase the securities. A minimum of three (3) Qualified Institutions and/or Primary Dealers must be contacted and asked to provide bids/offers on securities in questions. Bids will be held in confidence until the bid deemed to best meet the investment objectives is determined and selected.

On an exception basis, securities may be purchased utilizing the comparison to current market price method. Acceptable current market price providers include, but are not limited to:

1. *The Wall Street Journal* or a comparable nationally recognized financial publication providing daily market pricing.
2. Daily market pricing provided by the City's custody agents.

The Finance Department shall utilize the Best Execution process to purchase or sell the securities. Selection by comparison to a current market price, as indicated above, shall only be utilized when, in the judgment of the Finance Director or his/her designee, competitive bidding would inhibit the selection process. Examples of when this method may be used include:

1. When time constraints due to unusual circumstances preclude the use of the competitive bidding process.
2. When no active market exists for the issue being traded due to the age or depth of the issue.
3. When a security is unique to a single dealer, for example, a private placement.
4. When the transaction involved new issues or issues in the "when issued" market.

If the maturing investment is a certificate of deposit, then of the contacts made, one shall be the present holder of the funds subject to the portfolio diversification requirements in this policy. Due to the cost of safekeeping, one business day repurchase agreements less than \$1,000,000 and overnight sweep repurchase agreements will not be bid, but may be placed with the depository bank relating to the demand account for which the repurchase agreement was

purchased.

Notwithstanding the above, in order to afford local banks within the City opportunities to enhance the economics of the local area, an aggregate face value of up to \$1,000,000 in certificates of deposit may be purchased from a local provided the following additional conditions have been satisfied:

1. The bank is located within the boundaries of City of Lake Worth or has a branch office located within the boundaries of City of Lake Worth.
2. The bank matches the highest bid of three or more bids from other non-local banks.

INTERNAL CONTROLS

The Finance Director or his/her designee shall establish and monitor a set of written internal controls designed to protect the City's funds and ensure proper accounting and reporting of securities transactions. The internal controls should be designed to prevent losses of funds, which might arise from fraud, employee error, and misrepresentation by third parties, or imprudent actions by employees. No person may engage in an investment transaction except as authorized under the terms of this policy. Such internal controls shall include, but not be limited to, the following:

1. All securities purchased or sold will be transferred only under the "delivery versus payment" (D.V.P.) method to insure that funds or securities are not released until all criteria relating to the specific transaction are met.
2. The Finance Director or his/her designee is authorized to accept, on behalf of and in the name of City of Lake Worth, bank trust receipts or confirmations as evidence of actual delivery of the obligations or securities in return for investments of funds.
3. Trust receipts or confirmations shall fully describe the various obligations or securities held. The receipt or confirmation shall state that the investment is held in the name of City of Lake Worth.
4. The actual obligations or securities, whether in book-entry or physical form, on which trust receipts or confirmations are issued, may be held by a third-party custodial bank and/or institution or a designated correspondent bank which has a correspondent relationship to the City's third party custodian.
5. Other internal controls such as:
 - A. Written documentation of telephone transactions
 - B. Adequate separation of duties
 - C. Custodial safekeeping
 - D. Supervisory control of employee actions and operations review
 - E. Interim and annual performance evaluations and reporting.
6. All daily investment activity is coordinated by the Investment Accountant and reviewed by the Controller as well as the Finance Director. The Controller oversees day-to-day operations; however the whole investment function is under direct control of the Finance Director.

CONTINUING EDUCATION

Governmental officials responsible for making investment decisions shall complete 8 hours of continuing education annually in subjects or courses of study related to investment practices

and products.

REPORTING

On an annual basis, the City Manager designee shall submit to the City Council a written report on all invested funds. The annual report shall provide all, but not limited to, the following: a complete list of all invested funds, name or type of security in which the funds are invested, the amount invested, the maturity date, earned income, the book value, the market value, the yield on each investment.

The annual report will show performance on both a book value and total rate of return basis and will compare the results to the above-stated performance benchmarks. All investments shall be reported at fair value per GASB Statement 31. Investment reports shall be available to the public.

AUDITS

As part of the City's annual audit, the City's independent CPA's, pursuant to F.S. 11.45, shall report the City's compliance with F.S. 218.415.

POLICY REVIEW AND AMENDMENT

The Finance staff and the Finance Director or his/her designee shall review these policies in their entirety on an annual basis.

This policy may be amended in writing from time to time by the City Commission.

Attachment A

Glossary of Cash and Investment Management Terms

Accrued Interest. Interest earned but which has not yet been paid or received.

Agency. See "Federal Agency Securities."

Ask Price. Price at which a broker/dealer offers to sell a security to an investor. Also known as "offered price."

Asset Backed Securities (ABS). A fixed-income security backed by notes or receivables against assets other than real estate. Generally issued by special purpose companies that "own" the assets and issue the ABS. Examples include securities backed by auto loans, credit card receivables, home equity loans, manufactured housing loans, farm equipment loans and aircraft leases.

Average Life. The average length of time that an issue of serial bonds and/or term bonds with a mandatory sinking fund feature is expected to be outstanding.

Bankers' Acceptance (BA's). A draft or bill of exchange drawn upon and accepted by a bank. Frequently used to finance shipping of international goods. Used as a short-term credit instrument, bankers' acceptances are traded at a discount from face value as a money market instrument in the secondary market on the basis of the credit quality of the guaranteeing bank.

Basis Point. One hundredth of one percent, or 0.01%. Thus 1% equals 100 basis points.

Bearer Security. A security whose ownership is determined by the holder of the physical security. Typically, there is no registration on the issuer's books. Title to bearer securities is transferred by delivery of the physical security or certificate. Also known as "physical securities."

Benchmark Bills. In November 1999, FNMA introduced its Benchmark Bills program, a short-term debt securities issuance program to supplement its existing discount note program. The program includes a schedule of larger, weekly issues in three- and six-month maturities and biweekly issues in one-year for Benchmark Bills. Each issue is brought to market via a Dutch (single price) auction. FNMA conducts a weekly auction for each Benchmark Bill maturity and accepts both competitive and non-competitive bids through a web based auction system. This program is in addition to the variety of other discount note maturities, with rates posted on a daily basis, which FNMA offers. FNMA's Benchmark Bills are unsecured general obligations that are issued in book-entry form through the Federal Reserve Banks. There are no periodic payments of interest on Benchmark Bills, which are sold at a discount from the principal amount and payable at par at maturity. Issues under the Benchmark program constitute the same credit standing as other FNMA discount notes; they simply add organization and liquidity to the short-term Agency discount note market.

Benchmark Notes/Bonds. Benchmark Notes and Bonds are a series of FNMA "bullet" maturities (non-callable) issued according to a pre-announced calendar. Under its Benchmark Notes/Bonds program, 2, 3, 5, 10 and 30-year maturities are issued each quarter. Each Benchmark Notes new issue has a minimum size of \$4 billion, 30-year new issues having a minimum size of \$1 billion, with re-openings based on investor demand to further enhance

liquidity. The amount of non-callable issuance has allowed FNMA to build a yield curve in Benchmark Notes and Bonds in maturities ranging from 2 to 30 years. The liquidity emanating from these large size issues has facilitated favorable financing opportunities through the development of a liquid overnight and term repo market. Issues under the Benchmark program constitute the same credit standing as other FNMA issues; they simply add organization and liquidity to the intermediate- and long-term Agency market.

Benchmark. A market index used as a comparative basis for measuring the performance of an investment portfolio. A performance benchmark should represent a close correlation to investment guidelines, risk tolerance and duration of the actual portfolio's investments.

Bid Price. Price at which a broker/dealer offers to purchase a security from an investor.

Bond Market Association (BMA). The bond market trade association representing the largest securities markets in the world. In addition to publishing a Master Repurchase Agreement, widely accepted as the industry standard document for Repurchase Agreements, the BMA also recommends bond market closures and early closes due to holidays.

Bond. Financial obligation for which the issuer promises to pay the bondholder (the purchaser or owner of the bond) a specified stream of future cash flows, including periodic interest payments and a principal repayment.

Book Entry Securities. Securities that are recorded in a customer's account electronically through one of the financial markets electronic delivery and custody systems, such as the Fed Securities wire, DTC and PTC (as opposed to bearer or physical securities). The trend is toward a certificate-free society in order to cut down on paperwork and to diminish investors' concerns about the certificates themselves. The vast majority of securities are now book entry securities.

Book Value. The value at which a debt security is reflected on the holder's records at any point in time. Book value is also called "amortized cost" as it represents the original cost of an investment adjusted for amortization of premium or accretion of discount. Also called "carrying value." Book value can vary over time as an investment approaches maturity and differs from "market value" in that it is not affected by changes in market interest rates.

Broker/Dealer. A person or firm transacting securities business with customers. A "broker" acts as an agent between buyers and sellers, and receives a commission for these services. A "dealer" buys and sells financial assets from its own portfolio. A dealer takes risk by owning inventory of securities, whereas a broker merely matches up buyers and sellers. See also "Primary Dealer."

Bullet Notes/Bonds. Notes or bonds that have a single maturity date and are non-callable.

Call Date. Date at which a call option may be or is exercised.

Call Option. The right, but not the obligation, of an issuer of a security to redeem a security at a specified value and at a specified date or dates prior to its stated maturity date. Most fixed-income calls are a par, but can be at any previously established price. Securities issued with a call provision typically carry a higher yield than similar securities issued without a call feature.

There are three primary types of call options (1) European - one-time calls, (2) Bermudan - periodically on a predetermined schedule (quarterly, semi-annual, annual), and (3) American - continuously callable at any time on or after the call date. There is usually a notice period of at least 5 business days prior to a call date.

Callable Bonds/Notes. Securities, which contain an imbedded call option giving the issuer, the right to redeem the securities prior to maturity at a predetermined price and time.

Certificate of Deposit (CD). Bank obligation issued by a financial institution generally offering a fixed rate of return (coupon) for a specified period of time (maturity). Can be as long as 10 years to maturity, but most CDs purchased by public agencies are one year and under.

Collateral. Investment securities or other property that a borrower pledges to secure repayment of a loan, secure deposits of public monies, or provide security for a repurchase agreement.

Collateralization. Process by which a borrower pledges securities, property, or other deposits for securing the repayment of a loan and/or security.

Collateralized Mortgage Obligation (CMO). A security that pools together mortgages and separates them into short, medium, and long-term positions (called tranches). Tranches are set up to pay different rates of interest depending upon their maturity. Interest payments are usually paid monthly. In "plain vanilla" CMOs, principal is not paid on a tranche until all shorter tranches have been paid off. This system provides interest and principal in a more predictable manner. A single pool of mortgages can be carved up into numerous tranches each with its own payment and risk characteristics.

Commercial Paper. Short term unsecured promissory note issued by a company or financial institution. Issued at a discount and matures for par or face value. Usually a maximum maturity of 270 days, and given a short-term debt rating by one or more NRSROs.

Convexity. A measure of a bond's price sensitivity to changing interest rates. A high convexity indicates greater sensitivity of a bond's price to interest rate changes.

Corporate Note. A debt instrument issued by a corporation with a maturity of greater than one year and less than ten years.

Counterparty. The other party in a two party financial transaction. "Counterparty risk" refers to the risk that the other party, to a transaction, will fail in its related obligations. For example, the bank or broker/dealer in a repurchase agreement.

Coupon Rate. Annual rate of interest on a debt security, expressed as a percentage of the bond's face value.

Current Yield. Annual rate of return on a bond based on its price. Calculated as (coupon rate / price), but does not accurately reflect a bond's true yield level.

Custody. Safekeeping services offered by a bank, financial institution or trust company, referred to as the "custodian." Service normally includes the holding and reporting of the customer's securities, the collection and disbursement of income, securities settlement and market values.

Dealer. A dealer, as opposed to a broker, acts as a principal in all transactions, buying and selling for his own account.

Delivery Versus Payment (DVP). Settlement procedure in which securities are delivered versus payment of cash, but only after cash has been received. Most security transactions, including those through the Fed Securities Wire system and DTC, are done DVP as a protection for both the buyer and seller of securities.

Depository Trust Company (DTC). A firm through which members can use a computer to arrange for securities to be delivered to other members without physical delivery of certificates. A member of the Federal Reserve System and owned mostly by the New York Stock Exchange, the Depository Trust Company uses computerized debit and credit entries. Most corporate securities, commercial paper, CDs and BAs clear through DTC.

Derivatives. For hedging purposes, common derivatives are options, futures, swaps and swaptions. All Collateralized Mortgage Obligations ("CMOs") are derivatives. (1) Financial instruments whose return profile is linked to, or derived from, the movement of one or more underlying index or security, and may include a leveraging factor, or (2) financial contracts based upon notional amounts whose value is derived from an underlying index or security (interest rates, foreign exchange rates, equities or commodities).

Derivative Security. Financial instrument created from, or whose value depends upon, one or more underlying assets or indexes of asset values.

Designated Bond. FFCB's regularly issued, liquid, non-callable securities that generally have a 2 or 3 year original maturity. New issues of Designated Bonds are \$1 billion or larger. Re-openings of existing Designated Bond issues are generally a minimum of \$100 million. Designated Bonds are offered through a syndicate of two to six dealers. Twice each month the Funding Corporation announces its intention to issue a new Designated Bond, reopen an existing issue, or to not issue or reopen a Designated Bond. Issues under the Designated Bond program constitute the same credit standing as other FFCB issues; they simply add organization and liquidity to the intermediate- and long-term Agency market.

Discount Notes. Unsecured general obligations issued by Federal Agencies at a discount. Discount notes mature at par and can range in maturity from overnight to one year. Very large primary (new issue) and secondary markets.

Discount Rate. Rate charged by the system of Federal Reserve Banks on overnight loans to member banks. Changes to this rate are administered by the Federal Reserve and closely mirror changes to the "fed funds rate."

Discount Securities. Non-interest bearing money market instruments that are issued at discount and redeemed at maturity for full face value. Examples include: U.S. Treasury Bills, Federal Agency Discount Notes, Bankers' Acceptances and Commercial Paper.

Discount. The amount by which a bond or other financial instrument sells below its face value. See also "Premium."

Diversification. Dividing investment funds among a variety of security types, maturities, industries and issuers offering potentially independent returns.

Dollar Price. A bond's cost expressed as a percentage of its face value. For example, a bond quoted at a dollar price of 95 ½, would have a principal cost of \$955 per \$1,000 of face value.

Duff & Phelps. One of several NRSROs that provide credit ratings on corporate and bank debt issues.

Duration. The weighted average maturity of a security's or portfolio's cash flows, where the present values of the cash flows serve as the weights. The greater the duration of a security/portfolio, the greater its percentage price volatility with respect to changes in interest rates. Used as a measure of risk and a key tool for managing a portfolio versus a benchmark and for hedging risk. There are also different kinds of duration used for different purposes (e.g. MacAuley Duration, Modified Duration).

Fannie Mae. See "Federal National Mortgage Association."

Fed Money Wire. A computerized communications system that connects the Federal Reserve System with its member banks, certain U. S. Treasury offices, and the Washington D.C. office of the Commodity Credit Corporation. The Fed Money Wire is the book entry system used to transfer cash balances between banks for themselves and for customer accounts.

Fed Securities Wire. A computerized communications system that facilitates book entry transfer of securities between banks, brokers and customer accounts, used primarily for settlement of U.S. Treasury and Federal Agency securities.

Fed. See "Federal Reserve System."

Federal Agency Security. A debt instrument issued by one of the Federal Agencies. Federal Agencies are considered second in credit quality and liquidity only to U.S. Treasuries.

Federal Agency. Government sponsored/owned entity created by the U.S. Congress, generally for the purpose of acting as a financial intermediary by borrowing in the marketplace and directing proceeds to specific areas of the economy considered to otherwise have restricted access to credit markets. The largest Federal Agencies are GNMA, FNMA, FHLMC, FHLB, FFCB, SLMA, and TVA.

Federal Deposit Insurance Corporation (FDIC). Federal agency that insures deposits at commercial banks, currently to a limit of \$250,000 per depositor per bank.

Federal Farm Credit Bank (FFCB). One of the large Federal Agencies. A government sponsored enterprise (GSE) system that is a network of cooperatively-owned lending institutions that provides credit services to farmers, agricultural cooperatives and rural utilities. The FFCBs act as financial intermediaries that borrow money in the capital markets and use the proceeds to make loans and provide other assistance to farmers and farm-affiliated businesses. Consists of the consolidated operations of the Banks for Cooperatives, Federal Intermediate Credit Banks, and Federal Land Banks. Frequent issuer of discount notes, agency notes and callable agency securities. FFCB debt is not an obligation of, nor is it guaranteed by the U.S. government, although it is considered to have minimal credit risk due to its importance to the U.S. financial system and agricultural industry. Also issues notes under its "designated note" program.

Federal Funds (Fed Funds). Funds placed in Federal Reserve Banks by depository institutions in excess of current reserve requirements, and frequently loaned or borrowed on an overnight basis between depository institutions.

Federal Funds Rate (Fed Funds Rate). The interest rate charged by a depository institution lending Federal Funds to another depository institution. The Federal Reserve influences this rate by establishing a "target" Fed Funds rate associated with the Fed's management of monetary policy.

Federal Home Loan Bank System (FHLB). One of the large Federal Agencies. A government sponsored enterprise (GSE) system, consisting of wholesale banks (currently twelve district banks) owned by their member banks, which provides correspondent banking services and credit to various financial institutions, financed by the issuance of securities. The principal purpose of the FHLB is to add liquidity to the mortgage markets. Although FHLB does not directly fund mortgages, it provides a stable supply of credit to thrift institutions that make new mortgage loans. FHLB debt is not an obligation of, nor is it guaranteed by the U.S. government, although it is considered to have minimal credit risk due to its importance to the U.S. financial system and housing market. Frequent issuer of discount notes, agency notes and callable agency securities. Also issues notes under its "global note" and "TAP" programs.

Federal Home Loan Mortgage Corporation (FHLMC or "Freddie Mac"). One of the large Federal Agencies. A government sponsored public corporation (GSE) that provides stability and assistance to the secondary market for home mortgages by purchasing first mortgages and participation interests financed by the sale of debt and guaranteed mortgage backed securities. FHLMC debt is not an obligation of, nor is it guaranteed by the U.S. government, although it is considered to have minimal credit risk due to its importance to the U.S. financial system and housing market. Frequent issuer of discount notes, agency notes, callable agency securities and MBS. Also issues notes under its "reference note" program.

Federal National Mortgage Association (FNMA or "Fannie Mae"). One of the large Federal Agencies. A government sponsored public corporation (GSE) that provides liquidity to the residential mortgage market by purchasing mortgage loans from lenders, financed by the issuance of debt securities and MBS (pools of mortgages packaged together as a security). FNMA debt is not an obligation of, nor is it guaranteed by the U.S. government, although it is considered to have minimal credit risk due to its importance to the U.S. financial system and housing market. Frequent issuer of discount notes, agency notes, callable agency securities and MBS. Also issues notes under its "benchmark note" program.

Federal Reserve Bank. One of the 12 distinct banks of the Federal Reserve System.

Federal Reserve System (the Fed). The independent central bank system of the United States that establishes and conducts the nation's monetary policy. This is accomplished in three major ways: (1) raising or lowering bank reserve requirements, (2) raising or lowering the target Fed Funds Rate and Discount Rate, and (3) in open market operations by buying and selling government securities. The Federal Reserve System is made up of twelve Federal Reserve District Banks, their branches, and many national and state banks throughout the nation. It is headed by the seven member Board of Governors known as the "Federal Reserve Board" and headed by its Chairman.

Financial Industry Regulatory Authority, Inc (FINRA). is a private corporation that acts as a self-regulatory organization (SRO). FINRA is the successor to the National Association of Securities Dealers, Inc. (NASD). Though sometimes mistaken for a government agency, it is a non-governmental organization that performs financial regulation of member brokerage firms and exchange markets. The government also has a regulatory arm for investments, the Securities and Exchange Commission.

Fiscal Agent/Paying Agent. A bank or trust company that acts, under a trust agreement with a corporation or municipality, in the capacity of general treasurer. The agent performs such duties as making coupon payments, paying rents, redeeming bonds, and handling taxes relating to the issuance of bonds.

Fitch Investors Service, Inc. One of several NRSROs that provide credit ratings on corporate and municipal debt issues.

Floating Rate Security (FRN or “floater”). A bond with an interest rate that is adjusted according to changes in an interest rate or index. Differs from variable-rate debt in that the changes to the rate take place immediately when the index changes, rather than on a predetermined schedule. See also “Variable Rate Security.”

Freddie Mac. See "Federal Home Loan Mortgage Corporation".

Ginnie Mae. See "Government National Mortgage Association".

Global Notes: Notes designed to qualify for immediate trading in both the domestic U.S. capital market and in foreign markets around the globe. Usually large issues that are sold to investors worldwide and therefore have excellent liquidity. Despite their global sales, global notes sold in the U.S. are typically denominated in U.S. dollars.

Government National Mortgage Association (GNMA or "Ginnie Mae"). One of the large Federal Agencies. Government-owned Federal Agency that acquires, packages, and resells mortgages and mortgage purchase commitments in the form of mortgage-backed securities. Largest issuer of mortgage pass-through securities. GNMA debt is guaranteed by the full faith and credit of the U.S. government (one of the few agencies that is actually full faith and credit of the U.S.).

Government Securities. An obligation of the U.S. government, backed by the full faith and credit of the government. These securities are regarded as the highest quality of investment securities available in the U.S. securities market. See "Treasury Bills, Notes, Bonds, and SLGS."

Government Sponsored Enterprise (GSE). Privately owned entity subject to federal regulation and supervision, created by the U.S. Congress to reduce the cost of capital for certain borrowing sectors of the economy such as students, farmers, and homeowners. GSEs carry the implicit backing of the U.S. Government, but they are not direct obligations of the U.S. Government. For this reason, these securities will offer a yield premium over U.S. Treasuries. Some consider GSEs to be stealth recipients of corporate welfare. Examples of GSEs include: FHLB, FHLMC, FNMA and SLMA.

Government Sponsored Enterprise Security. A security issued by a Government Sponsored Enterprise. Considered Federal Agency Securities.

Index. A compilation of statistical data that tracks changes in the economy or in financial markets.

Interest-Only (IO) STRIP. A security based solely on the interest payments from the bond. After the principal has been repaid, interest payments stop and the value of the security falls to nothing. Therefore, IOs are considered risky investments. Usually associated with mortgage-backed securities.

Internal Controls. An internal control structure ensures that the assets of the entity are protected from loss, theft, or misuse. The internal control structure is designed to provide reasonable assurance that these objectives are met. The concept of reasonable assurance recognizes that 1) the cost of a control should not exceed the benefits likely to be derived and 2) the valuation of costs and benefits requires estimates and judgments by management. Internal controls should address the following points:

1. **Control of collusion** - Collusion is a situation where two or more employees are working in conjunction to defraud their employer.
2. **Separation of transaction authority from accounting and record keeping** - By separating the person who authorizes or performs the transaction from the people who record or otherwise account for the transaction, a separation of duties is achieved.
3. **Custodial safekeeping** - Securities purchased from any bank or dealer including appropriate collateral (as defined by state law) shall be placed with an independent third party for custodial safekeeping.
4. **Avoidance of physical delivery securities** - Book-entry securities are much easier to transfer and account for since actual delivery of a document never takes place. Delivered securities must be properly safeguarded against loss or destruction. The potential for fraud and loss increases with physically delivered securities.
5. **Clear delegation of authority to subordinate staff members** - Subordinate staff members must have a clear understanding of their authority and responsibilities to avoid improper actions. Clear delegation of authority also preserves the internal control structure that is contingent on the various staff positions and their respective responsibilities.
6. **Written confirmation of transactions for investments and wire transfers** - Due to the potential for error and improprieties arising from telephone and electronic transactions, all transactions should be supported by written communications and approved by the appropriate person. Written communications may be via fax if on letterhead and if the safekeeping institution has a list of authorized signatures.
7. **Development of a wire transfer agreement with the lead bank and third-party custodian** - The designated official should ensure that an agreement will be entered into and will address the following points: controls, security provisions, and responsibilities of each party making and receiving wire transfers.

Inverse Floater. A floating rate security structured in such a way that it reacts inversely to the direction of interest rates. Considered risky as their value moves in the opposite direction of normal fixed-income investments and whose interest rate can fall to zero.

Investment Advisor. A company that provides professional advice managing portfolios, investment recommendations and/or research in exchange for a management fee.

Investment Adviser Act of 1940. Federal legislation that sets the standards by which investment companies, such as mutual funds, are regulated in the areas of advertising, promotion, performance reporting requirements, and securities valuations.

Investment Grade. Bonds considered suitable for preservation of invested capital; bonds rated a minimum of Baa3 by Moody's, BBB- by Standard & Poor's, or BBB- by Fitch. Although "BBB" rated bonds are considered investment grade, most public agencies cannot invest in securities rated below "A."

Liquidity. Relative ease of converting an asset into cash without significant loss of value. Also, a relative measure of cash and near-cash items in a portfolio of assets. Also, a term describing the marketability of a money market security correlating to the narrowness of the spread between the bid and ask prices.

Local Government Investment Pool (LGIP). An investment by local governments in which their money is pooled as a method for managing local funds, (i.e., Florida State Board of Administration's Florida Prime Fund).

Long-Term Core Investment Program. Funds that are not needed within a one year period.

Market Value. The fair market value of a security or commodity. The price at which a willing buyer and seller would pay for a security.

Mark-to-market. Adjusting the value of an asset to its market value, reflecting in the process unrealized gains or losses.

Master Repurchase Agreement. A widely accepted standard agreement form published by the Bond Market Association (BMA) that is used to govern and document Repurchase Agreements and protect the interest of parties in a repo transaction.

Maturity Date. Date on which principal payment of a financial obligation is to be paid.

Medium Term Notes (MTN's). Used frequently to refer to corporate notes of medium maturity (5-years and under). Technically, any debt security issued by a corporate or depository institution with a maturity from 1 to 10 years and issued under an MTN shelf registration. Usually issued in smaller issues with varying coupons and maturities, and underwritten by a variety of broker/dealers (as opposed to large corporate deals issued and underwritten all at once in large size and with a fixed coupon and maturity).

Money Market. The market in which short-term debt instruments (bills, commercial paper, bankers' acceptance, etc.) are issued and traded.

Money Market Mutual Fund (MMF). A type of mutual fund that invests solely in money market instruments, such as: U.S. Treasury bills, commercial paper, bankers' acceptances, and

repurchase agreements. Money market mutual funds are registered with the SEC under the Investment Company Act of 1940 and are subject "rule 2a-7" which significantly limits average maturity and credit quality of holdings. MMF's are managed to maintain a stable net asset value (NAV) of \$1.00. Many MMFs carry ratings by a NRSRO.

Moody's Investors Service. One of several NRSROs that provide credit ratings on corporate and municipal debt issues.

Mortgage Backed Securities (MBS). Mortgage-backed securities represent an ownership interest in a pool of mortgage loans made by financial institutions, such as savings and loans, commercial banks, or mortgage companies, to finance the borrower's purchase of a home or other real estate. The majority of MBS are issued and/or guaranteed by GNMA, FNMA and FHLMC. There are a variety of MBS structures, some of which can be very risky and complicated. All MBS have reinvestment risk as actual principal and interest payments are dependent on the payment of the underlying mortgages which can be prepaid by mortgage holders to refinance and lower rates or simply because the underlying property was sold.

Mortgage Pass-Through Securities. A pool of residential mortgage loans with the monthly interest and principal distributed to investors on a pro-rata basis. Largest issuer is GNMA.

Municipal Note/Bond. A debt instrument issued by a state or local government unit or public agency. The vast majority of municipals are exempt from state and federal income tax, although some non-qualified issues are taxable.

Mutual Fund. Portfolio of securities professionally managed by a registered investment company that issues shares to investors. Many different types of mutual funds exist (bond, equity, money fund); all except money market funds operate on a variable net asset value (NAV).

Negotiable Certificate of Deposit (Negotiable CD). Large denomination CDs (\$100,000 and larger) that are issued in bearer form and can be traded in the secondary market.

Net Asset Value. The market value of one share of an investment company, such as a mutual fund. This figure is calculated by totaling a fund's assets which includes securities, cash, and any accrued earnings, subtracting this from the fund's liabilities and dividing this total by the number of shares outstanding. This is calculated once a day based on the closing price for each security in the fund's portfolio. (See below.)

$$[(\text{Total assets}) - (\text{Liabilities})]/(\text{Number of shares outstanding})$$

NRSRO. A "Nationally Recognized Statistical Rating Organization." A designated rating organization that the SEC has deemed a strong national presence in the U.S. NRSROs provide credit ratings on corporate and bank debt issues. Only ratings of a NRSRO may be used for the regulatory purposes of rating. Includes Moody's, S&P, Fitch and Duff & Phelps.

Offered Price. See also "Ask Price."

Open Market Operations. Federal Reserve monetary policy tactic entailing the purchase or sale of government securities in the open market by the Federal Reserve System from and to primary dealers in order to influence the money supply, credit conditions, and interest rates.

Par Value. Face value, stated value or maturity value of a security.

Physical Delivery. Delivery of readily available underlying assets at contract maturity.

Portfolio. Collection of securities and investments held by an investor.

Premium. The amount by which a bond or other financial instrument sells above its face value. See also "Discount."

Primary Dealer. Any of a group of designated government securities dealers designated by to the Federal Reserve Bank of New York. Primary dealers can buy and sell government securities directly with the Fed. Primary dealers also submit daily reports of market activity and security positions held to the Fed and are subject to its informal oversight. Primary dealers are considered the largest players in the U.S. Treasury securities market.

Prime Paper. Commercial paper of high quality. Highest rated paper is A-1+/A-1 by S&P and P-1 by Moody's.

Principal. Face value of a financial instrument on which interest accrues. May be less than par value if some principal has been repaid or retired. For a transaction, principal is par value times price and includes any premium or discount.

Prudent Investor Standard. Standard that requires that when investing, reinvesting, purchasing, acquiring, exchanging, selling, or managing public funds, a trustee shall act with care, skill, prudence, and diligence under the circumstances then prevailing, including, but not limited to, the general economic conditions and the anticipated needs of the agency, that a prudent person acting in a like capacity and familiarity with those matters would use in the conduct of funds of a like character and with like aims, to safeguard the principal and maintain the liquidity needs of the agency. More stringent than the "prudent person" standard as it implies a level of knowledge commensurate with the responsibility at hand.

Qualified Public Depository - Per Florida Statute 280, means any bank, saving bank or savings association that:

1. Is organized and exists under the laws of the United States, the laws of this state or any other state or territory of the United States;
2. Has its principal place of business in this state or has a branch office in this state which is authorized under the laws of this state or of the United States to receive deposits in this state.
3. Has deposit insurance under the provision of the Federal Deposit Insurance Act, as amended, 12 U.S.C. ss.1811 seq.
- 8.
4. Meets all requirements of F.S. 280
5. Has been designed by the Treasurer as a qualified public depository.

Range Note. A type of structured note that accrues interest daily at a set coupon rate that is tied to an index. Most range notes have two coupon levels; a higher accrual rate for the period

the index is within a designated range, the lower accrual rate for the period that the index falls outside the designated range. This lower rate may be zero and may result in zero earnings.

Rate of Return. Amount of income received from an investment, expressed as a percentage of the amount invested.

Realized Gains (Losses). The difference between the sale price of an investment and its book value. Gains/losses are “realized” when the security is actually sold, as compared to “unrealized” gains/losses which are based on current market value. See “Unrealized Gains (Losses).”

Reference Bills: FHLMC’s short-term debt program created to supplement its existing discount note program by offering issues from one month through one year, auctioned on a weekly or on an alternating four-week basis (depending upon maturity) offered in sizeable volumes (\$1 billion and up) on a cycle of regular, standardized issuance. Globally sponsored and distributed, Reference Bill issues are intended to encourage active trading and market-making and facilitate the development of a term repo market. The program was designed to offer predictable supply, pricing transparency and liquidity, thereby providing alternatives to U.S. Treasury bills. FHLMC’s Reference Bills are unsecured general corporate obligations. This program supplements the corporation’s existing discount note program. Issues under the Reference program constitute the same credit standing as other FHLMC discount notes; they simply add organization and liquidity to the short-term Agency discount note market.

Reference Notes: FHLMC’s intermediate-term debt program with issuances of 2, 3, 5, 10 and 30-year maturities. Initial issuances range from \$2 - \$6 billion with re-openings ranging \$1 - \$4 billion.

The notes are high-quality bullet structures securities that pay interest semiannually. Issues under the Reference program constitute the same credit standing as other FHLMC notes; they simply add organization and liquidity to the intermediate- and long-term Agency market.

Repurchase Agreement (Repo). A short-term investment vehicle where an investor agrees to buy securities from a counterparty and simultaneously agrees to resell the securities back to the counterparty at an agreed upon time and for an agreed upon price. The difference between the purchase price and the sale price represents interest earned on the agreement. In effect, it represents a collateralized loan to the investor, where the securities are the collateral. Can be DVP, where securities are delivered to the investor’s custodial bank, or “tri-party” where the securities are delivered to a third party intermediary. Any type of security can be used as “collateral,” but only some types provide the investor with special bankruptcy protection under the law. Repos should be undertaken only when an appropriate BMA approved master repurchase agreement is in place.

Reverse Repurchase Agreement (Reverse Repo). A repo from the point of view of the original seller of securities. Used by dealers to finance their inventory of securities by essentially borrowing at short-term rates. Can also be used to leverage a portfolio and in this sense, can be considered risky if used improperly.

Safekeeping. Service offered for a fee, usually by financial institutions, for the holding of securities and other valuables. Safekeeping is a component of custody services.

Secondary Market. Markets for the purchase and sale of any previously issued financial instrument.

Securities Lending. An arrangement between an investor and a custody bank that allows the custody bank to "loan" the investor's investment holdings, reinvest the proceeds in permitted investments, and share any profits with the investor. Should be governed by a securities lending agreement. Can increase the risk of a portfolio in that the investor takes on the default risk on the reinvestment at the discretion of the custodian.

Sinking Fund. A separate accumulation of cash or investments (including earnings on investments) in a fund in accordance with the terms of a trust agreement or indenture, funded by periodic deposits by the issuer (or other entity responsible for debt service), for the purpose of assuring timely availability of monies for payment of debt service. Usually used in connection with term bonds.

Spread. The difference between the price of a security and similar maturity U.S. Treasury investments, expressed in percentage terms or basis points. A spread can also be the absolute difference in yield between two securities. The securities can be in different markets or within the same securities market between different credits, sectors, or other relevant factors.

Standard & Poor's. One of several NRSROs that provide credit ratings on corporate and municipal debt issues.

STRIPS (Separate Trading of Registered Interest and Principal of Securities). Acronym applied to U.S. Treasury securities that have had their coupons and principal repayments separated into individual zero-coupon Treasury securities. The same technique and "strips" description can be applied to non-Treasury securities (e.g. FNMA strips).

Structured Notes. Notes that have imbedded into their structure options such as step-up coupons or derivative-based returns.

Swap. Trading one asset for another.

TAP Notes: Federal Agency notes issued under the FHLB TAP program. Launched in 6/99 as a refinement to the FHLB bullet bond auction process. In a break from the FHLB's traditional practice of bringing numerous small issues to market with similar maturities, the TAP Issue Program uses the four most common maturities and reopens them up regularly through a competitive auction. These maturities (2, 3, 5 and 10 year) will remain open for the calendar quarter, after which they will be closed and a new series of TAP issues will be opened to replace them. This reduces the number of separate bullet bonds issued, but generates enhanced awareness and liquidity in the marketplace through increased issue size and secondary market volume.

Tennessee Valley Authority (TVA). One of the large Federal Agencies. A wholly owned corporation of the United States government that was established in 1933 to develop the resources of the Tennessee Valley region in order to strengthen the regional and national economy and the national defense. Power operations are separated from non-power operations. TVA securities represent obligations of TVA, payable solely from TVA's net power proceeds, and are neither obligations of nor guaranteed by the United States. TVA is currently authorized to issue debt up to \$30 billion. Under this authorization, TVA may also obtain

advances from the U.S. Treasury of up to \$150 million. Frequent issuer of discount notes, agency notes and callable agency securities.

Total Return. Investment performance measured over a period of time that includes coupon interest, interest on interest, and both realized and unrealized gains or losses. Total return includes, therefore, any market value appreciation/depreciation on investments held at period end.

Treasuries. Collective term used to describe debt instruments backed by the U.S. Government and issued through the U.S. Department of the Treasury. Includes Treasury bills, Treasury notes, and Treasury bonds. Also a benchmark term used as a basis by which the yields of non-Treasury securities are compared (e.g., "trading at 50 basis points over Treasuries").

Treasury Bills (T-Bills). Short-term direct obligations of the United States Government issued with an original term of one year or less. Treasury bills are sold at a discount from face value and do not pay interest before maturity. The difference between the purchase price of the bill and the maturity value is the interest earned on the bill. Currently, the U.S. Treasury issues 4-week, 13-week and 26-week T-Bills

Treasury Bonds. Long-term interest-bearing debt securities backed by the U.S. Government and issued with maturities of ten years and longer by the U.S. Department of the Treasury. The Treasury stopped issuing Treasury Bonds in August 2001.

Treasury Notes. Intermediate interest-bearing debt securities backed by the U.S. Government and issued with maturities ranging from one to ten years by the U.S. Department of the Treasury. The Treasury currently issues 2-year, 5-year and 10-year Treasury Notes.

Trustee. A bank designated by an issuer of securities as the custodian of funds and official representative of bondholders. Trustees are appointed to insure compliance with the bond documents and to represent bondholders in enforcing their contract with the issuer.

Uniform Net Capital Rule. SEC regulation 15C3-1 that outlines the minimum net capital ratio (ratio of indebtedness to net liquid capital) of member firms and non-member broker/dealers.

Unrealized Gains (Losses). The difference between the market value of an investment and its book value. Gains/losses are "realized" when the security is actually sold, as compared to "unrealized" gains/losses which are based on current market value. See also "Realized Gains (Losses)."

Variable-Rate Security. A bond that bears interest at a rate that varies over time based on a specified schedule of adjustment (e.g., daily, weekly, monthly, semi-annually or annually). See also "Floating Rate Note."

Weighted Average Maturity (or just "Average Maturity"). The average maturity of all securities and investments of a portfolio, determined by multiplying the par or principal value of each security or investment by its maturity (days or years), summing the products, and dividing the sum by the total principal value of the portfolio. A simple measure of risk of a fixed-income portfolio.

Weighted Average Maturity to Call. The average maturity of all securities and investments of a portfolio, adjusted to substitute the first call date per security for maturity date for those securities with call provisions.

Yield Curve. A graphic depiction of yields on like securities in relation to remaining maturities spread over a time line. The traditional yield curve depicts yields on U.S. Treasuries, although yield curves exist for Federal Agencies and various credit quality corporates as well. Yield curves can be positively sloped (normal) where longer-term investments have higher yields, or "inverted" (uncommon) where longer-term investments have lower yields than shorter ones.

Yield to Call (YTC). Same as "Yield to Maturity," except the return is measured to the first call date rather than the maturity date. Yield to call can be significantly higher or lower than a security's yield to maturity.

Yield to Maturity (YTM). Calculated return on an investment, assuming all cash flows from the security are reinvested at the same original yield. Can be higher or lower than the coupon rate depending on market rates and whether the security was purchased at a premium or discount. There are different conventions for calculating YTM for various types of securities.

Yield. There are numerous methods of yield determination. In this glossary, see also "Current Yield," "Yield Curve," "Yield to Call" and "Yield to Maturity."

Attachment B
Investment Pool/Fund Questionnaire

1. A description of eligible investment securities, and a written statement of investment policy and objectives.
2. A description of interest calculations and how it is distributed, and how gains and losses are treated.
3. A description of how the securities are safeguarded (including the settlement processes), and how often the securities are priced and the program audited.
4. A description of who may invest in the program, how often, what size deposit and withdrawal are allowed.
5. A schedule for receiving statements and portfolio listings.
6. Are reserves, retained earnings, etc. utilized by the pool/fund?
7. A fee schedule, and when and how is it assessed.
8. Is the pool/fund eligible for bond proceeds and/or will it accept such proceeds?