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31 CFR Part 356

Sale and Issue of Marketable Book-Entry Treasury Bills, Notes, and Bonds—Plain Language Uniform Offering Circular; Proposed Rule

DEPARTMENT OF THE TREASURY

Fiscal Service

31 CFR Part 356

Sale and Issue of Marketable Book-Entry Treasury Bills, Notes, and Bonds—Plain Language Uniform Offering Circular

AGENCY: Bureau of the Public Debt, Fiscal Service, Treasury.

ACTION: Proposed Rule.

SUMMARY: The Department of the Treasury (''Treasury,'' ''We,'' or ''Us'') proposes to amend 31 CFR Part 356 (Uniform Offering Circular for the Sale and Issue of Marketable Book-Entry Treasury Bills, Notes, and Bonds) by converting it to plain language. We are proposing this amendment to make our marketable securities auction rules easier to understand. This amendment would also make certain minor revisions to better make the auction rules conform to current practices.

DATES: Send your comments to reach us on or before February 23, 2004.

ADDRESSES: You may send comments to: Government Securities Regulations Staff, Bureau of the Public Debt, 999 E Street NW., Room 315, Washington, DC 20239–0001. You may also send us comments by e-mail at *govsecreg@bpd.treas.gov.* When sending comments by e-mail, please provide your full name and mailing address. You may download this proposed amendment, and review the comments we receive, from the Bureau of the Public Debt's Web site at *http://www.publicdebt.treas.gov.* The proposed amendment and comments will also be available for public inspection and copying at the Treasury Department Library, Room 1428, Main Treasury Building, 1500 Pennsylvania Avenue, NW., Washington, DC 20220. To visit the library, call (202) 622–0990 for an appointment.

FOR FURTHER INFORMATION CONTACT: Lori Santamorena (Executive Director) or Chuck Andreatta (Associate Director), Bureau of the Public Debt, Government Securities Regulations Staff, (202) 691–3632 or e-mail us at *govsecreg@bpd.treas.gov.*

SUPPLEMENTARY INFORMATION: Executive Order 12866 requires each agency to write regulations that are simple and easy to understand. In addition to requiring us to write new regulations in plain language, a Presidential memorandum dated June 2, 1998, directs us to consider rewriting existing regulations in plain language. The Uniform Offering Circular (UOC), in conjunction with the announcement for each auction, provides the terms and conditions for the sale and issuance in an auction to the public of marketable Treasury bills, notes and bonds.[1] We have rewritten the UOC in plain language because the wide variety of bidders in our securities auctions—broker-dealers, depository institutions, non-financial firms, individuals, etc.—have widely different levels of experience in dealing with federal regulations in general and with securities-related concepts and regulations in particular. We also believe that better understanding of the auction rules may increase direct participation in our auctions and improve the auction process overall, resulting in lower borrowing costs.

In addition to rewriting the existing regulations in plain language, we are proposing to make certain minor revisions to better make the auction rules conform to current auction practices. For example, we have eliminated references to multiple-price auctions since we now use single-price auctions for all marketable Treasury securities. We also have renamed ''inflation-indexed'' securities as ''inflation-protected'' securities so that the resulting acronym, TIPS, conforms with the way these securities are commonly referred to by market participants and the press.

We also have made several organizational changes to streamline the regulations and to aid their readability. For example, in section 356.11, which addresses how bidders may submit bids, the current UOC is organized according to whether the bid is submitted on a paper tender form or by computer. In the plain-language version, the section is organized by whether we will be issuing awarded securities in the commercial book-entry system or in the TreasuryDirect book-entry system. This reorganization was done to make it easier for different types of bidders—firms and institutions versus individuals, for example—to find out their respective bidding requirements.

Appendix A, which describes different bidder categories, has also been reorganized in the way it describes the process for requesting separate-bidder status. The UOC currently describes this process separately for corporations and for partnerships. The plain-language version describes how to obtain separate-bidder recognition in a single location within Appendix A, thereby eliminating repetitive parallel language. Please note that Appendix A of the proposed rule adds a definition of ''Foreign and International Monetary Authorities,'' a category of bidder that was not previously described in the UOC.

Finally, we are proposing to eliminate the two exhibits at the end of the UOC. Exhibit A provides sample auction announcements. Exhibit B is a sample autocharge agreement. Both auction announcements and autocharge agreements are subject to more frequent revision than the UOC itself, and examples of both are readily available at the Bureau of the Public Debt's Web site at *http://www.publicdebt.treas.gov.*

We invite your comments on how to make these proposed regulations easier to understand, including answers to questions such as the following: (1) Are the requirements in the proposed regulations clearly stated? (2) Do the proposed regulations contain technical language or jargon that interferes with their clarity? (3) Does the format of the proposed regulations (grouping and order of sections, use of headings, paragraphing, etc.) aid or reduce their clarity? (4) Would the regulations be easier to understand if they were divided into more (but shorter) sections? (A section appears in bold type and is preceded by the section symbol and a numbered heading, for example, **§ 356.20 How does the Treasury determine auction awards?**)

Procedural Requirements

It has been determined that this is not a significant regulatory action for purposes of Executive Order 12866. Although we are issuing this proposed rule in proposed form to benefit from public comment, the notice and public procedures requirements of the Administrative Procedure Act do not apply, under 5 U.S.C. 553(a)(2).

Since no notice of proposed rulemaking is required, the provisions of the Regulatory Flexibility Act (5 U.S.C. 601 *et seq.*) do not apply.

The Office of Management and Budget previously approved the collections of information in this proposed amendment in accordance with the Paperwork Reduction Act under control number 1535–0112. We are only rewriting the UOC in plain language and are not proposing substantive changes to these requirements that would impose additional burdens on auction bidders.

List of Subjects in 31 CFR Part 356

Bonds, Federal Reserve System, Government Securities, Securities.

[1] The Uniform Offering Circular was published as a final rule on January 5, 1993 (58 FR 412). The circular, as amended, is codified at 31 CFR Part 356.

For the reasons stated in the preamble, we propose to revise 31 CFR Part 356 to read as follows:

PART 356—SALE AND ISSUE OF MARKETABLE BOOK-ENTRY TREASURY BILLS, NOTES, AND BONDS (DEPARTMENT OF THE TREASURY CIRCULAR, PUBLIC DEBT SERIES NO. 1–93)

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Appendix A to Part 356—Bidder Categories

Appendix B to Part 356—Formulas and Tables

Appendix C to Part 356—Investment Considerations

Appendix D to Part 356—Description of the Consumer Price Index

Authority: 5 U.S.C. 301; 31 U.S.C. 3102, *et seq.*; 12 U.S.C. 391.

Subpart A—General Information

§ 356.0 What authority does the Treasury have to sell and issue securities?

Chapter 31 of Title 31 of the United States Code authorizes the Secretary of the Treasury to issue United States obligations, and to offer them for sale with the terms and conditions that the Secretary prescribes.

§ 356.1 To which securities does this circular apply?

The provisions in this part, including the appendices, and each individual auction announcement govern the sale and issuance of marketable Treasury securities issued on or after March 1, 1993. This part also governs all securities eligible for the Separate Trading of Registered Interest and Principal of Securities (STRIPS) Program (*See* §356.31). In addition, these provisions and the auction announcements govern any other types of securities we may issue under this part.

§ 356.2 What definitions do I need to know to understand this part?

Accrued interest means an amount that bidders must pay to us for interest income as part of the settlement amount. Accrued interest compensates us up front for interest that bidders will be paid but did not earn because it is attributable to a period of time prior to the issue date. (*See* Appendix B, section I, paragraph C for additional explanation and examples.)

Adjusted value means, for an interest component stripped from an inflation-protected security, an amount derived by:

(1) Multiplying the semiannual interest rate by the par amount, and then

(2) Multiplying this value by: 100 divided by the Reference CPI of the original issue date (or dated date, when the dated date is different from the original issue date). (*See* Appendix B, section IV for an example of how to calculate the adjusted value.)

Auction means a bidding process by which we sell marketable Treasury securities to the public.

Autocharge agreement means an agreement in a format acceptable to Treasury between a submitter or clearing corporation and a depository institution that authorizes us to:

(1) Deliver awarded securities to either:

(i) The book-entry securities account of a designated depository institution in the commercial book-entry system, or

(ii) A TreasuryDirect account, and

(2) Charge a funds account of a designated depository institution for the settlement amount of the securities.

Bid means an offer to purchase a stated par amount of securities, either competitively or noncompetitively, in an auction.

Bid-to-cover ratio means the total par amount of securities bid for in an auction divided by the total par amount of securities awarded. It excludes bids by, and awards to, the Federal Reserve for its own account.

Bidder, as further defined in Appendix A, means a person or an entity that offers to purchase Treasury securities in an auction either directly or through a depository institution or dealer. We may consider two or more persons or entities to be one bidder based on their relationship or their actions in participating in an auction.

Bidder Identification Number means a number we assign to each institutional submitter and to certain other competitive bidders. We assign such numbers either to identify certain bidders or to grant separate bidder status to different parts of the same corporate or partnership structure.

Book-entry security means a security that is issued and maintained as an accounting entry or electronic record in either the commercial book-entry system or in TreasuryDirect. (*See* § 356.3)

Business day means any day on which the Federal Reserve Banks are open for business.

Call means the redemption of a security prior to maturity under the terms specified in its auction announcement.

Clearing corporation means a clearing agency as defined in section 3 of the Securities Exchange Act of 1934 (15 U.S.C. 78c(a)(23)). A clearing corporation must be registered with the Securities and Exchange Commission under section 17A of the Securities Exchange Act of 1934 and its rules.

Competitive bid means a bid to purchase a stated par amount of securities at a specified yield or discount rate.

Consumer Price Index (CPI) means the monthly non-seasonally adjusted U.S. City Average All Items Consumer Price Index for All Urban Consumers, published by the Bureau of Labor

Statistics of the Department of Labor. We use the CPI as the basis for adjusting the principal amounts of inflation-protected securities. (*See* Appendix D)

Corpus means the principal component of a security that has been stripped of its interest components.

CUSIP number means the unique identifying number assigned to each separate security issue and each separate STRIPS component. CUSIP numbers are provided by the CUSIP Service Bureau of Standard & Poor's Corporation. CUSIP is an acronym for Committee on Uniform Securities Identification Procedures.

Customer means a bidder that directs a depository institution or dealer to submit or forward a bid for a specific amount of securities in a specific auction on the bidder's behalf. Only depository institutions and dealers may submit bids for customers directly to us, or forward them to another depository institution or dealer.

Dated date means the date from which interest accrues for notes and bonds. The dated date and issue date are usually the same. In those cases where interest begins accruing prior to the issue date, however, the dated date will be prior to the issue date. An example is when the dated date is a Saturday and the issue date is the following Monday.

Dealer means an entity that is registered or has given notice of its status as a government securities broker or government securities dealer under Section 15C(a)(1) of the Securities Exchange Act of 1934.

Depository institution means:

(1) An entity described in Section 19(b)(1)(A), excluding subparagraph (vii), of the Federal Reserve Act (12 U.S.C. 461(b)(1)(A)).

(2) Any agency or branch of a foreign bank as defined by the International Banking Act of 1978, as amended (12 U.S.C. 3101).

Discount means the difference between par and the price of the security, when the price is less than par. (*See* Appendix B for formulas and examples.)

Discount amount means the discount divided by 100 and multiplied by the par amount. (*See* Appendix B for formulas and examples.)

Discount rate means a rate of return, on an annual basis, on bills held until they mature. The discount rate is expressed in percentage terms and based on a 360-day year. It is also referred to as the ''bank discount rate.'' (*See* Appendix B for formulas and examples.)

Funds account means a cash account maintained by a depository institution at a Federal Reserve Bank.

Index means the Consumer Price Index.

Index ratio means, for an inflation-protected security, the Reference CPI of a particular date divided by the Reference CPI of the original issue date. (When the dated date is different from the original issue date, the denominator of the index ratio is the Reference CPI of the dated date rather than that of the original issue date.)

Inflation-adjusted principal means, for an inflation-protected security, the value of the security derived by multiplying the par amount by the applicable index ratio as described in Appendix B, section I, paragraph B.

Interest rate means the annual percentage rate of interest paid on the par amount (or the inflation-adjusted principal) of a specific issue of notes or bonds. (*See* Appendix B for methods and examples of interest calculations on notes and bonds.)

Intermediary means a depository institution or dealer that forwards bids for customers to another depository institution or dealer. An intermediary does not submit bids directly to us.

Issue date means the date specified in the auction announcement on which we issue a security as an obligation of the United States. Interest normally begins to accrue on a security's issue date.

Marketable security means a security that may be bought, sold and transferred in the secondary market.

Maturity date means the date on which a security becomes due and payable, and ceases to earn interest. The maturity date is specified in the auction announcement.

Minimum to bid means the smallest amount of a security that may be bid for in an auction as stated in the auction announcement.

Multiple to bid means the smallest additional amount of a security that may be bid for in an auction as stated in the auction announcement.

Noncompetitive bid means a bid to purchase a stated par amount of securities at the yield or discount rate awarded to competitive bidders.

Offering amount means the par amount of securities we are offering to the public for purchase in an auction, as specified in the auction announcement.

Par means a price of 100. (*See* Appendix B)

Par amount means the stated value of a security at original issuance.

Person means a natural person.

Premium means the difference between par and the price of the security, when the price is greater than par.

Premium amount means the premium divided by 100 and multiplied by the par amount.

Price means the price of a security as calculated using the formulas in Appendix B.

Real yield means, for an inflation-protected security, the yield based on the payment stream in constant dollars. In other words, the real yield is the yield in the absence of inflation.

Reference CPI (Ref CPI) means, for an inflation-protected security, the index number applicable to a given date. (*See* Appendix B, section I, paragraph B)

Reopening means the auction of an additional amount of an outstanding security.

Security means a Treasury bill, note, or bond, each as described in this part. Security also means any other obligation we issue that is subject to this part according to its auction announcement. Security includes an interest or principal component under the STRIPS program.

Settlement means final and complete payment for securities awarded in an auction and delivery of those securities.

Settlement amount means the total of the par amount of securities awarded, less any discount amount or plus any premium amount, and plus any accrued interest. For inflation-protected securities, the settlement amount also includes any inflation adjustment when such securities are reopened or when the dated date is different from the issue date.

STRIPS (Separate Trading of Registered Interest and Principal of Securities) means our program under which eligible securities are authorized to be separated into principal and interest components, and transferred separately. These components are maintained and transferred in the commercial book-entry system.

Submitter means a person or entity submitting bids directly to us for its own account, for customer accounts, or both. Only depository institutions and dealers are permitted to submit bids for customer accounts. We permit investment advisers to submit bids on behalf of controlled accounts.

TINT means an interest component from a stripped security.

TreasuryDirect® means the TreasuryDirect Book-Entry Securities System. (*See* 31 CFR 357, subpart C)

We (or ''us'') means the Secretary of the Treasury and his or her delegates, including the Department of the Treasury, Bureau of the Public Debt, and their representatives. The term also includes Federal Reserve Banks acting as fiscal agents of the United States.

Yield means the annualized rate of return to maturity on a fixed-principal security. Yield is expressed as a percentage. For an inflation-protected

security, yield means the real yield. Yield is also referred to as ''yield to maturity.'' (*See* Appendix B)

You means a prospective bidder in an auction.

§ 356.3 What is the role of the Federal Reserve Banks in this process?

The Treasury Department authorizes Federal Reserve Banks, as fiscal agents of the United States, to perform all activities necessary to carry out the provisions of this part, any auction announcements, and applicable regulations.

§ 356.4 What are the book-entry systems in which auctioned Treasury securities may be issued?

We issue Treasury marketable securities into either of two book-entry securities systems—the commercial book-entry system or TreasuryDirect. We maintain and transfer securities in these two book-entry systems at their par amount. For example, par amounts of inflation-protected securities do not include adjustments for inflation. Securities may be transferred from one system to the other. *See* Department of the Treasury Circular, Public Debt Series No. 2–86, as amended (31 CFR Part 357).

(a) *The commercial book-entry system.* When depository institutions or dealers submit bids for Treasury securities in an auction, securities awarded as a result of those bids are generally held in the commercial book-entry system. Specifically, we maintain book-entry accounts in the National Book-Entry System® (''NBES'') for Federal Reserve Banks, depository institutions, and other authorized entities, such as government and international agencies and foreign central banks. In their accounts, depository institutions maintain securities held for their own account and for the accounts of others. The accounts held for others include those of other depository institutions and dealers, which may, in turn, maintain accounts for others.

(b) *TreasuryDirect.* In this system, we maintain the book-entry securities of account holders directly on the records of the Bureau of the Public Debt, Department of the Treasury. Bids for securities to be held in TreasuryDirect are generally submitted directly to us, although such bids may also be forwarded to us by a depository institution or dealer.

§ 356.5 What types of securities does the Treasury auction?

We offer securities under this part exclusively in book-entry form and as direct obligations of the United States issued under Chapter 31 of Title 31 of the United States Code. The securities are subject to the terms and conditions in this part, the regulations governing book-entry Treasury bills, notes, and bonds (31 CFR Part 357), and the auction announcements. When we issue additional securities with the same CUSIP number as outstanding securities, we consider them to be the same securities as the outstanding securities.

(a) *Treasury bills.*—(1) Are issued at a discount;

(2) Are redeemed at their par amount at maturity; and

(3) Have maturities of not more than one year.

(b) *Treasury notes.*—(1) Treasury fixed-principal [1] notes.

(i) Are issued with a stated rate of interest to be applied to the par amount;

(ii) Have interest payable semiannually;

(iii) Are redeemed at their par amount at maturity;

(iv) Are sold at discount, par, or premium, depending upon the auction results; and

(v) Have maturities of at least one year, but of not more than ten years.

(2) *Treasury inflation-protected notes.*—(i) Are issued with a stated rate of interest to be applied to the inflation-adjusted principal on each interest payment date;

(ii) Have interest payable semiannually;

(iii) Are redeemed at maturity at their inflation-adjusted principal, or at their par amount, whichever is greater;

(iv) Are sold at discount, par, or premium, depending on the auction results (*See* Appendix B for price and interest payment calculations and Appendix C for Investment Considerations.); and

(v) Have maturities of at least one year, but not more than ten years.

(c) *Treasury bonds*—(1) Treasury fixed-principal bonds.

(i) Are issued with a stated rate of interest to be applied to the par amount;

(ii) Have interest payable semiannually;

(iii) Are redeemed at their par amount at maturity;

(iv) Are sold at discount, par, or premium, depending on the auction results; and

(v) Have maturities of more than ten years.

(2) *Treasury inflation-protected bonds.*—(i) Are issued with a stated rate of interest to be applied to the inflation-adjusted principal on each interest payment date;

(ii) Have interest payable semiannually;

(iii) Are redeemed at maturity at their inflation-adjusted principal, or at their par amount, whichever is greater;

(iv) Are sold at discount, par, or premium, depending on the auction results; and

(v) Have maturities of more than ten years. (*See* Appendix B for price and interest payment calculations and Appendix C for Investment Considerations.)

Subpart B—Bidding, Certifications, and Payment

§ 356.10 What is the purpose of an auction announcement?

By issuing an auction announcement, we provide public notice of the sale of bills, notes, and bonds. The auction announcement lists the specifics of each auction, *e.g.*, offering amount, term and type of security, CUSIP number, and issue and maturity dates. The auction announcement and this part, including the Appendices, specify the terms and conditions of sale. If anything in the auction announcement differs from this part, the auction announcement will control. If you intend to bid, you should read the applicable auction announcement along with this part.

§ 356.11 How are bids submitted in an auction?

(a) *General.* (1) Bids must be submitted using an approved method, which depends on whether you are requesting us to issue the awarded securities in the commercial book-entry system or in TreasuryDirect (See § 356.3). The approved submission methods for these respective systems are explained in this section. A bidder must provide its assigned bidder identification numbers if it has been assigned one. We have the option of accepting or rejecting incomplete bids.

(2) We must receive competitive and noncompetitive bids prior to their respective closing times, which are stated in the auction announcement. We will not include late bids in the auction. For bids other than those submitted on paper forms, our computer time stamp will establish the receipt time. You are bound by your bids after the closing time.

(3) We are not responsible for any delays, errors, or omissions. We are not responsible for any failures or disruptions of equipment or

[1] We use the term ''fixed-principal'' in this part to distinguish such securities from ''inflation-protected'' securities. We refer to fixed-principal notes and fixed-principal bonds as ''notes'' and ''bonds'' in official Treasury publications, such as auction announcements and auction results press releases, as well as in auction systems.

communications facilities used for participating in Treasury auctions.

(b) *Commercial book-entry system.* (1) If you are a submitter and the awarded securities are to be issued in the commercial book-entry system, you must submit bids using one of our approved electronic methods except for contingency situations.

(2) You must have an agreement on file with us under which you agree to our terms and conditions for access to our system for participating in our auctions.

(3) In contingency situations, such as a power outage, we may accept bids by telephone if you submit them prior to the relevant bidding deadline.

(c) *TreasuryDirect.* (1) If you are a submitter and the awarded securities are to be issued in TreasuryDirect, you may submit bids by using one of our approved methods, *e.g.*, computer, automated telephone service, or paper forms. You may also reinvest the proceeds of maturing securities into new securities by completing the appropriate transaction request on time.

(2) If you are submitting bids by paper form, you must use forms authorized by the Bureau of the Public Debt and provide the requested information. We have the option of accepting or rejecting bids on any other form. You are responsible for ensuring that we receive bids in paper form on time. A competitive bid is on time if we receive it prior to the deadline for the receipt of competitive bids. A noncompetitive bid is on time if:

(i) We receive it on or before the issue date, and

(ii) The envelope it arrived in bears evidence, such as a U.S. Postal Service cancellation, that it was mailed prior to the auction date.

(3) If you are submitting a bid by computer or telephone you must be an established TreasuryDirect account holder with a Taxpayer Identification Number. You may not submit a competitive bid by computer or telephone.

§ 356.12 What are the different types of bids and do they have specific requirements or restrictions?

(a) *General.* All bids must state the par amount of securities bid for and must equal or exceed the minimum to bid amount stated in the auction announcement. Bids in larger amounts must be in the multiple stated in the auction announcement.

(b) *Noncompetitive bids.*—(1) *Maximum bid.* You may not bid noncompetitively for more than $1 million in a bill auction or more than $5 million in a note or bond auction. The maximum bid limitation does not apply if you are bidding solely through a TreasuryDirect reinvestment request. A request for reinvestment of securities maturing in TreasuryDirect is a noncompetitive bid.

(2) *Additional restrictions.* You may not bid noncompetitively in an auction in which you are bidding competitively. You may not bid noncompetitively if, in the security being auctioned, you hold a position in when-issued trading or in futures or forward contracts at any time between the date of the auction announcement and the time we announce the auction results. During this same timeframe, a noncompetitive bidder may not enter into any agreement to purchase or sell or otherwise dispose of the securities it is acquiring in the auction. For this paragraph, futures contracts include those:

(i) That require delivery of the specific security being auctioned;

(ii) For which the security being auctioned is one of several securities that may be delivered; or

(iii) That are cash-settled.

(c) *Competitive bids.*

(1) *Bid format*—(i) *Treasury bills.* A competitive bid must show the discount rate bid, expressed with three decimals in .005 percent increments. The third decimal must be either a zero or a five, for example, 5.320 or 5.325.

(ii) *Treasury fixed-principal securities.* A competitive bid must show the yield bid, expressed with three decimals, for example, 4.170.

(iii) *Treasury inflation-protected securities.* A competitive bid must show the real yield bid, expressed with three decimals, for example, 3.070.

(2) *Maximum recognized bid.* There is no limit on the maximum dollar amount that you may bid for competitively, either at a single yield or discount rate, or at different yields or discount rates. However, a competitive bid at a single yield or discount rate that exceeds 35 percent of the offering amount will be reduced to that amount. For example, if the offering amount is $10 billion, the maximum bid amount we will recognize at any one yield or discount rate from any bidder is $3.5 billion. (*See* § 356.22 for award limitations.)

(3) *Additional restriction.* You may not bid competitively in an auction in which you are bidding noncompetitively.

§ 356.13 When must I report my net long position and how do I calculate it?

(a) Net long position reporting threshold.

(1) If you are bidding competitively in an auction, you must report your net long position when the total of your bids plus your net long position in the security being auctioned equals or exceeds the net long position reporting threshold (*See* table). We will specify this threshold in the auction announcement for each security (*See* § 356.10). The threshold is typically 35 percent of the offering amount, but we may state a different threshold in the auction announcement. To see whether you must report your net long position, follow this table:

If . . .	And If. . .	Then. . .
(i) the total of your bids and your net long position in the security being auctioned equals or exceeds the reporting threshold.	.....	you must report your net long position (which does not include your bids).
(ii) the total of your bids in the auction equals or exceeds the reporting threshold.	you have no position or a net short position in the security being auctioned.	you must report a zero.
(iii) the total of your bids and your net long position in the security being auctioned is less than the reporting threshold.	.....	you may either report nothing (leave the field blank) or report your net long position.

(2) Also, if you have more than one bid in an auction and you must report either your net long position or a zero, you must report that figure only once. Finally, if you are a customer and must report either your net long position or a zero, you must report that figure through only one depository institution or dealer. (*See* § 356.14(d))

(b) ''As of'' time for calculating net long position. You must calculate your net long position as of one half-hour prior to the closing time for receipt of competitive bids.

(c) Components of the net long position. Except as modified in (d) of this section, your net long position is the sum total of the par amounts of:

(1) Your holdings of outstanding securities with the same CUSIP number as the security being auctioned;

(2) Your holdings of STRIPS principal components of the security being auctioned, and;

(3) Your positions, in the security being auctioned, in:

(i) When-issued trading, including when-issued trading positions of the STRIPS principal components;

(ii) Futures contracts that require delivery of the specific security being auctioned (but not futures contracts for which the security being auctioned is one of several securities that may be delivered, and not futures contracts that are cash-settled); and

(iii) Forward contracts that require delivery of the specific security being auctioned or of the STRIPS principal component of that security.

(d) Calculating the net long position in a reopening. In a reopening (additional issue) of an outstanding security, you may subtract the exclusion amount stated in the auction announcement from:

(1) Your holdings of the outstanding securities (paragraph (c)(1) of this section) combined with

(2) Your holdings of STRIPS principal components of the security being auctioned (paragraph (c)(2) of this section). We will specify the amount of holdings that you may exclude from the net long position calculation in the auction announcement. You may not take the exclusion if your combined holdings are zero or less. The exclusion is optional, but if you take the exclusion, you must include any holdings that exceed the exclusion amount in calculating your net long position. If the exclusion amount is greater than your combined holdings (paragraphs (c)(1) and (2) of this section), you may calculate the combined holdings as zero, but they cannot be included in the calculation as a negative number.

§ 356.14 What are the requirements for submitting bids for customers?

(a) *Institutions that may submit bids for customers.* Only depository institutions or dealers may submit bids for customers, or for customers of intermediaries, under the requirements set out in this section. If a bid from a depository institution or a dealer fulfills a guarantee to a customer to sell a specified amount of securities at an agreed-upon price, or a price fixed in terms of an agreed-upon standard, then the bid is a bid of that depository institution or dealer. It is not a customer bid.

(b) *Payment.* Submitters must remit payment for bids they submit on behalf of customers, including customers of intermediaries, that result in awards of securities in the auction.

(c) *Identifying customers.* Submitters must provide the names of customers whenever they submit bids for them. Submitters must provide the names of their direct customers as well as customers of any intermediaries who are forwarding customer bids. For individuals, submitters must provide the customer's full name (first and last). For institutional customers, submitters must provide the name of the institution, and the bidder identification number if the customer provides it. For trusts or other fiduciary estates (*See* Appendix A), submitters must provide on the customer list:

(1) The full name or title of the trustee or fiduciary;

(2) A reference to the document creating the trust or fiduciary estate with date of execution; and

(3) The employer identification number (not social security number) of the trust or fiduciary estate. We do not consider trusts to be a separate bidder that have not been assigned, or that do not provide, an employer identification number.

(d) *Competitive customer bids.* For each customer competitive bid, the submitter must provide the customer's name, the amount bid, and the yield or discount rate. The submitter or intermediary must also report the net long position amount if the customer provides it. The submitter must inform a customer of the net long position reporting requirement (*See* § 356.13) if the customer is bidding for $100 million or more of securities. If the submitter's or intermediary's personnel know that the customer's position information is not correct, the submitter or intermediary may not submit the customer's bid.

(e) *Noncompetitive customer bids.* For each noncompetitive bid, the submitter must provide the customer's name and the amount bid. Submitters may either provide the customer's name with the bid or, if the list of customers is lengthy, the submitter may provide a summary bid amount covering all noncompetitive customers. If it provides a summary bid amount, the submitter must transmit the list of individual customers and their bid amounts by close of business on the auction day. However, the submitter must be able to provide the customer list details by the noncompetitive bidding deadline if requested.

§ 356.15 What rules apply to bids submitted by investment advisers?

(a) *General.* The auction rules that apply to investment advisers are determined by the relationship between ''investment advisers'' and ''controlled accounts.'' An investment adviser means any person or entity that has investment discretion for the bids or positions of a different person or entity (a controlled account). A person or entity has investment discretion if it determines what, when, and what quantity of securities will be purchased or sold on behalf of another person or entity. We consider a person that is employed or supervised by an investment adviser to be part of that investment adviser. We also consider the bids or positions of controlled accounts to be separate from the bids or positions of the person or entity with which they would otherwise be associated under the bidder categories in Appendix A of this part.

(b) *Bidding options.*—(1) An investment adviser has two options for whose name to use when bidding on behalf of controlled accounts.

An investment adviser may bid for a controlled account . . .	In such cases, we consider the bidder to be . . .
(i) in the investment adviser's own name	the investment adviser.
(ii) in the name of the controlled account	the controlled account.

(2) Using the first option (paragraph (b)(1)(i)), an investment advisor could bid noncompetitively up to the noncompetitive bidding limit only for itself, as a single bidder. Using the second option (paragraph (b)(1)(ii)), an investment adviser could bid noncompetitively for each separately named controlled account up to the noncompetitive bidding limit. The investment adviser could also bid noncompetitively in its own name in the same auction up to the noncompetitive bidding limit. An investment adviser may not bid for a controlled account both noncompetitively and competitively in the same auction. If an investment

adviser is bidding competitively in the name of a controlled account, the controlled account is subject to the award limitations of § 356.22(b).

(c) *Reporting net long positions.* If it is bidding competitively, an investment adviser must calculate the amount of its bids and positions for purposes of the net long position reporting requirement found in § 356.13(a). In addition to its own competitive bids and positions, the investment adviser must also include in the calculation all other competitive bids and positions that it controls. If the net long position is reportable, the investment adviser must report it as a total in connection with only one bid as stated in § 356.13(a). This requirement applies regardless of whether the investment adviser bids in its own name or in the name of its controlled accounts. The following table shows which positions an investment adviser must include to determine whether it meets the net long position reporting threshold in § 356.13(a). If an investment adviser does meet the reporting threshold, the table also shows which positions must be included in, and which may be excluded from, the net long position calculation.

If an investment adviser is bidding competitively, and . . .	Then . . .
(1) the investment adviser has a net long position for its own account ..	that position must be included in the investment adviser's net long position calculation.
(2) the investment adviser's competitive bid is for a controlled account	any net long position of that account must be included in the investment adviser's net long position calculation.
(3) the investment adviser is not bidding competitively for a controlled account and . . .	
(i) the controlled account has a net long position of $100 million or more.	that position must be included in the investment adviser's net long position calculation.
(ii) the controlled account has a net long position that is less than $100 million.	that position may be excluded from the investment adviser's net long position calculation.
(iii) any net long position is excluded under paragraph (b)(3)(ii) of this table.	all net short positions of controlled accounts under $100 million must also be excluded.

(d) *Certifications.* When an investment adviser bids for a controlled account, we deem the investment adviser to have certified that it is complying with this part and the auction announcement for the security. Further, we deem the investment adviser to have certified that the information it provided about bids for controlled accounts is accurate and complete.

(e) *Proration of awards.* Investment advisers that submit competitive bids in the names of controlled accounts are responsible for prorating any awards at the highest accepted yield or discount rate using the same percentage that we announce. *See* § 356.21 for examples of how to prorate.

§ 356.16 Do I have to make any certifications?

(a) *Submitters.* If you submit bids or other information in an auction, we deem you to have certified that:

(1) You are in compliance with this part and the auction announcement;

(2) The information provided with regard to any bids for your own account is accurate and complete; and

(3) The information provided with regard to any bids for customers accurately and completely reflects information provided by your customers or intermediaries.

(4) If you submit bids by computer, you must have on file a written certification that, each time you submit such bids, you are in compliance with this part and the applicable auction announcement. An authorized person must sign and date the certification on behalf of the submitter, and it must be filed with us and renewed at least annually.

(b) *Intermediaries.* If you forward bids in an auction, we deem you to have certified that:

(1) You are in compliance with this part and the applicable auction announcement; and

(2) That the information you provided to a submitter or other intermediary with regard to bids for customers accurately and completely reflects information provided by those customers or intermediaries.

(c) *Customers.* By bidding for a security as a customer we deem you to have certified that:

(1) You are in compliance with this part and the auction announcement and;

(2) The information you provided to the submitter or intermediary in connection with the bid is accurate and complete.

§ 356.17 How and when do I pay for securities awarded in an auction?

(a) *General.* By bidding in an auction, you agree to pay the settlement amount for any securities awarded to you. (*See* § 356.25) For notes and bonds, the settlement amount may include a premium amount, accrued interest, and, for inflation-protected securities, an inflation adjustment.

(b) *TreasuryDirect.* Unless you make other provisions, you must submit payment with your bids or pay by debit entry to a deposit account. To pay by debit entry, you must first authorize us to make debit entries to your deposit account under 31 CFR part 370. Payment by debit entry occurs on the settlement date for the actual settlement amount due. (*See* § 356.25) You may also pay for reinvestments with maturing securities, however, you must pay separately for any premium, accrued interest, or inflation adjustment as soon as you receive your Payment Due Notice.

(1) *Bidding by computer or by telephone.* If you are bidding by computer or by telephone, you must pay for any securities awarded to you by debit entry to a deposit account.

(2) *Bidding by paper form.* If you are mailing bids to us on a paper form, you may either enclose your payment with the form or pay for any securities awarded to you by debit entry to a deposit account.

(i) *Payment with paper form.* For bills, you may pay by depository institution (cashier's or teller's) check, certified check, or currently dated Treasury or fiscal agency check made payable to you. For notes or bonds, in addition to the payment options for bills, you may also pay by personal check. If you submit a personal check, make it payable to TreasuryDirect and mail it to the Federal Reserve Bank handling your account. In your payment amount you must include the par amount and any announced accrued interest and/or inflation adjustment.

(ii) *Payment by debit entry to a deposit account.* If a depository institution or dealer is submitting your bids for securities to be held in

TreasuryDirect, payment may be either by debit entry to a deposit account or by allowing us to charge the Federal Reserve Bank funds account of a depository institution.

(3) *Payment by maturing securities.* You may use maturing securities held in TreasuryDirect as payment for reinvestments into new securities that we are offering, as long as we receive the appropriate transaction request on time.

(c) *Commercial book-entry system.* For securities to be held in the commercial book-entry system, payment of the settlement amount must be by charge to the funds account of a depository institution at a Federal Reserve Bank.

(1) A submitter that does not have a funds account at a Federal Reserve Bank or that chooses not to pay by charge to its own funds account must have an approved autocharge agreement on file with us before submitting any bids. Any depository institution whose funds account will be charged under an autocharge agreement will receive advance notice from us of the total par amount of, and price to be charged for, securities awarded as a result of the submitter's bids.

(2) A submitter that is a member of a clearing corporation may instruct that delivery and payment be made through the clearing corporation for securities awarded to the submitter for its own account. To do this, the following requirements must be met prior to submitting any bids:

(i) We must have acknowledged and have on file an autocharge agreement between the clearing corporation and a depository institution. By entering into such an agreement, the clearing corporation authorizes us to provide aggregate par and price information to the depository institution whose funds account will be charged under the agreement. The clearing corporation is responsible for remitting payment for auction awards of the clearing corporation member.

(ii) We must have acknowledged and have on file a delivery and payment agreement between the submitter and the clearing corporation. By entering into such an agreement, the submitter authorizes us to provide award and payment information to the clearing corporation.

Subpart C—Determination of Auction Awards; Settlement

§ 356.20 How does the Treasury determine auction awards?

(a) *Determining the range and amount of accepted competitive bids.*

(1) *Accepting bids.* First we accept in full all noncompetitive bids that were submitted by the noncompetitive bidding deadline. After the closing time for receipt of competitive bids we start accepting those at the lowest yields or discount rates through successively higher yields or discount rates, up to the amount required to meet the offering amount. When necessary, we prorate bids at the highest accepted yield or discount rate as described below. If the amount of noncompetitive bids would absorb most or all of the offering amount, we will accept competitive bids in an amount sufficient to provide a fair determination of the yield or discount rate for the securities we are auctioning.

(2) *Accepting bids at the high yield or discount rate.* Generally, the total amount of bids at the highest accepted yield or discount rate exceeds the offering amount remaining after we accept the noncompetitive bids and the competitive bids at the lower yields or discount rates. In order to keep the total amount of awards as close as possible to the announced offering amount, we award a percentage of the bids at the highest accepted yield or discount rate. We derive the percentage by dividing the remaining par amount needed to fill the offering amount by the par amount of the bids at the high yield or discount rate and rounding up to the next hundredth of a whole percentage point, for example, 17.13%.

(b) *Determining the interest rate for new note and bond issues.* We set the interest rate at the 1/8 of one percent increment that produces the price closest to, but not above, par when evaluated at the yield of awards to successful competitive bidders.

(c) *Determining purchase prices for awarded securities.* For both noncompetitive bidders and competitive bidders, we convert the highest accepted discount rate or yield to a price expressed as a price per hundred. This price is rounded to three decimals, for example, 99.954. (*See* Appendix B) For inflation-protected securities, the price for awarded securities is the price equivalent to the highest accepted real yield.

§ 356.21 How are awards at the high yield or discount rate calculated?

(a) *Awards to submitters.* We generally prorate bids at the highest accepted yield or discount rate under § 356.20(a)(2) of this part. For example, if 80.15% is the announced percentage at the highest yield or discount rate, we award 80.15% of the amount of each bid at that yield or rate. A bid for $100 million at the highest accepted yield or discount rate would be awarded $80,150,000 in this example. We always make awards for at least the minimum to bid, and above that amount we make awards in the appropriate multiple to bid. For example, Treasury bills may be issued with a minimum to bid of $1,000 and multiples to bid of $1,000. Say we accept an $18,000 bid at the high discount rate, and the percent awarded at the high discount rate is 88.27%. We would award $16,000 to that bidder, which is an upward adjustment from $15,888.60 ($18,000 × .8827) to the nearest multiple of $1,000. If we were to award 4.65% of bids at the highest accepted rate, for example, the award for a $10,000 bid at that rate would be $1,000, rather than $465, in order to meet the minimum to bid for a bill issue.

(b) *Awards to customers.* The same prorating rules apply to customers as apply to submitters. Depository institutions and dealers, whether submitters or intermediaries, are responsible for prorating awards for their customers at the same percentage that we announce. For example, if 80.15% is the announced percentage at the highest yield or discount rate, then each customer bid at that yield or rate must be awarded 80.15%.

§ 356.22 Does the Treasury have any limitations on auction awards?

(a) *Awards to noncompetitive bidders.* The maximum award to any bidder is $1 million for bills and $5 million for notes and bonds. This limit does not apply to bidders bidding solely through TreasuryDirect reinvestment requests.

(b) *Awards to competitive bidders.* The maximum award is 35 percent of the offering amount less the bidder's net long position as reportable under § 356.13. For example, in a note auction with a $10 billion offering amount, and therefore a maximum award of $3.5 billion, a bidder with a reported net long position of $1 billion could receive a maximum auction award of $2.5 billion. When the bids and net long positions of more than one person or entity must be combined, as is the case with investment advisers and controlled accounts (*See* § 356.15(c)), we will use this combined amount for the purpose of this 35 percent award limit.

§ 356.23 How are the auction results announced?

(a) After the conclusion of the auction, we will announce the auction results through a press release that is available on our Web site at *http://www.publicdebt.treas.gov.*

(b) The press release will include such information as:

(1) The amounts of bids we accepted and the amount of securities we awarded;

(2) The range of accepted yields or discount rates;

(3) The proration percentage;

(4) The interest rate for a note or bond;

(5) A breakdown of the amounts of noncompetitive and competitive bids we accepted from, and awarded to, the public;

(6) The amounts of bids tendered and accepted from the Federal Reserve Banks for their own accounts;

(7) The bid-to-cover ratio; and

(8) Other information that we may decide to include.

§ 356.24 Will I be notified directly of my awards and, if I am submitting bids for others, do I have to provide confirmations?

(a) *Notice of awards*—(1) *Notice to submitters.* We will provide notice to all submitters letting them know whether their bids were successful or not.

(2) *Notice to clearing corporations.* If we are to deliver awarded securities under a delivery and payment agreement, we will provide notice of the awards to the clearing corporation that is a party to the agreement.

(b) *Notification of awards to customers.* If you are a submitter for customers, you are responsible for notifying them of their awards. You are also responsible for notifying any intermediaries that forwarded successful bids to you. Similarly, an intermediary is responsible for providing notification of any awards to its customers and any intermediaries from whom it received bids.

(c) *Notification of awards and settlement amounts to a depository institution having an autocharge agreement with a submitter or a clearing corporation.* We will notify each depository institution that has entered into an autocharge agreement with a submitter or a clearing corporation of the amount to be charged, on the issue date, to the institution's funds account at the Federal Reserve Bank servicing the institution. We will provide this notification no later than the day after the auction.

(d) *Customer confirmation.* Any customer awarded a par amount of $500 million or more in an auction must send us a confirmation containing the information in paragraphs (d)(1) and (2) of this section. The confirmation must be sent no later than 10:00 a.m. on the day following the auction. The confirmation must be signed by the customer or authorized representative. If signed by an authorized representative, the confirmation must include the capacity in which the representative is acting. A submitter or intermediary submitting or forwarding bids for a customer must notify the customer of this requirement if we award the customer $500 million or more as a result of those bids. The information the customer must provide in writing is:

(1) A confirmation of the awarded bid(s), including the name of the depository institution or dealer that submitted the bid(s) on the customer's behalf, and

(2) A statement indicating whether the customer had a reportable net long position as defined in § 356.13. If a position had to be reported, the statement must provide the amount of the position and the name of the depository institution or dealer that the customer requested to report the position.

§ 356.25 How does the settlement process work?

Securities bought in the auction must be paid for by the issue date. The payment amount for awarded securities will be the settlement amount as defined in § 356.2. (*See* formulas in Appendix B.) There are several ways to pay for securities:

(a) *Payment by debit entry to a deposit account.* If you are paying by debit entry to a deposit account as provided for in § 356.17 (b)(1) or (b)(2), we will charge the settlement amount to the specified account on the issue date.

(b) *Payment by authorized charge to a funds account.* Where the submitter's method of payment is an authorized charge to the funds account of a depository institution as provided for in § 356.17 (c)(1) and (c)(2), we will charge the settlement amount to the specified funds account on the issue date.

(c) *Payment with bids.* If you paid the par amount with your bids as provided for in § 356.17 (b)(2), you may have to pay an additional amount, or we may have to pay an amount to you, as follows:

(1) *When we owe an amount to you.* If the amount you paid is more than the settlement amount, we will refund the balance to you after the auction. This situation will generally be the case if you submit payment with your bids. A typical example would be an auction where the price is a discount from par and there is no accrued interest.

(2) *When you must remit an additional amount.* If the settlement amount is more than the amount you paid, we will notify you of the additional amount due, which you will be responsible for remitting immediately. You may owe us such an additional amount if the auction calculations result in a premium or if accrued interest or an inflation adjustment is due.

Subpart D—Miscellaneous Provisions

§ 356.30 When does the Treasury pay principal and interest on securities?

(a) *General.* We will pay principal on bills, notes, and bonds on the maturity date as specified in the auction announcement. Interest on bills consists of the difference between the discounted amount paid by the investor at original issue and the par value we pay to the investor at maturity. Interest on notes and bonds accrues from the dated date. Interest is payable on a semiannual basis on the interest payment dates specified in the auction announcement through the maturity date. If any principal or interest payment date is a Saturday, Sunday, or other day on which the Federal Reserve System is not open for business, we will make the payment (without additional interest) on the next business day. If a bond is callable, we will pay the principal prior to maturity if we call it under its terms, which include providing appropriate public notice.

(b) *Treasury inflation-protected securities.* (1) This table explains the amount that we will pay to holders of inflation-protected securities at maturity.

At *maturity,* if . . .	Then . . .
(i) the inflation-adjusted principal is equal to or more than the par amount of the security.	we will pay the inflation-adjusted principal.
(ii) the inflation-adjusted principal is less than the par amount of the security, and the security has not been stripped.	we will pay an additional amount so that the additional amount plus the inflation-adjusted principal equals the par amount.
(iii) the inflation-adjusted principal is less than the par amount of the security, and the security has been stripped.	to holders of principal components only we will pay an additional amount so that the additional amount plus the inflation-adjusted principal equals the par amount.

(2) Regardless of whether or not we pay an additional amount, we will base the final interest payment on the inflation-adjusted principal at maturity.

(c) *Discharge of payment obligations.*

(1) *The commercial book-entry system.* We discharge our payment obligations when we credit payment to the account maintained at a Federal Reserve Bank for a depository institution or other authorized entity, or when we make payment according to the instructions of the person or entity maintaining the account. Further, we do not have any obligations to any person or entity that does not have an account with a Federal Reserve Bank. We also will not recognize the claims of any person or entity:

(i) That does not have an account at a Federal Reserve Bank, or

(ii) With respect to any accounts not maintained at a Federal Reserve Bank.

(2) *TreasuryDirect.* We discharge our payment obligations when we make payment to a depository institution for credit to the account specified by the owner of the security, or when we make payment according to the instructions of the security's owner or the owner's legal representative.

§ 356.31 How does the STRIPS program work?

(a) *General.* Notes or bonds may be ''stripped''—divided into separate principal and interest components. These components must be maintained in the commercial book-entry system. Stripping is done at the option of the holder, and may occur at any time from issuance until maturity. We provide the CUSIP numbers and payment dates for the principal and interest components in auction announcements and on our Web site at *http://www.publicdebt.treas.gov.*

(b) *Treasury fixed-principal securities (notes and bonds other than Treasury inflation-protected securities*—(1) *Minimum par amounts required for STRIPS.* The minimum par amount of a fixed-principal security that may be stripped is $1,000. Any par amount to be stripped above $1,000 must be in a multiple of $1,000.

(2) *Principal components.* Principal components stripped from fixed-principal securities are maintained in accounts, and transferred, at their par amount. They have a CUSIP number that is different from the CUSIP number of the fully constituted (unstripped) security.

(3) *Interest components.* Interest components stripped from fixed-principal securities have the following features:

(i) They are maintained in accounts, and transferred, at their original payment value, which is derived by multiplying the semiannual interest rate and the par amount;

(ii) Their interest payment date becomes the maturity date for the component;

(iii) All interest components with the same maturity date have the same CUSIP number, regardless of the underlying security from which the interest payments were stripped, and therefore are fungible (interchangable).

(iv) The CUSIP numbers of interest components are different from the CUSIP numbers of principal components and fully constituted securities, even if they have the same maturity date, and therefore are not fungible.

(c) *Treasury inflation-protected securities*—(1) *Minimum par amounts required for STRIPS.* The minimum par amount of an inflation-protected security that may be stripped is $1,000. Any par amount to be stripped above $1,000 must be in a multiple of $1,000.

(2) *Principal components.* Principal components stripped from inflation-protected securities are maintained in accounts, and transferred, at their par amount. At maturity, the holder will receive the inflation-adjusted principal or the par amount, whichever is greater. (*See* § 356.30) A principal component has a CUSIP number that is different from the CUSIP number of the fully constituted (unstripped) security.

(3) *Interest components.*—(i) *Adjusted value.* Interest components stripped from inflation-protected securities are maintained in accounts, and transferred, at their adjusted value. This value is derived by multiplying the semiannual interest rate by the par amount and then multiplying this value by: 100 divided by the Reference CPI of the original issue date. (The dated date is used instead of the original issue date when the dates are different.) *See* Appendix B, Section IV of this part for an example of how to do this calculation.

(ii) *CUSIP numbers.* When an interest payment is stripped from an inflation-protected security, the interest payment date becomes the maturity date for the component. All interest components with the same maturity date have the same CUSIP number, regardless of the underlying security from which the interest payments were stripped. Such interest components are fungible (interchangeable). The CUSIP numbers of interest components are different from the CUSIP numbers of principal components and fully constituted securities, even if they have the same maturity date.

(iii) *Payment at maturity.* At maturity, the payment to the holder will be derived by multiplying the adjusted value of the interest component by the Reference CPI of the maturity date, divided by 100. *See* Appendix B, Section IV to this part for an example of how to do this calculation.

(iv) *Rebasing of the CPI.* If the CPI is rebased to a different time base reference period (*See* Appendix D), the adjusted values of all outstanding inflation-protected interest components will be converted to adjusted values based on the new base reference period. At that time, we will publish information that describes how this conversion will occur. After rebasing, any interest components created from a security that was issued during a prior base reference period will be issued with adjusted values calculated using reference CPIs under the most-recent base reference period.

(d) *Reconstituting a security.* Stripped interest and principal components may be reconstituted, that is, put back together into their fully constituted form. A principal component and all related unmatured interest components, in the appropriate minimum or multiple amounts or adjusted values, must be submitted together for reconstitution. Because inflation-protected interest components are different from fixed-principal interest components, they are not interchangeable for reconstitution purposes.

(e) *Applicable regulations.* Subparts A, B, and D of part 357 of this chapter govern notes and bonds stripped into their STRIPS components, unless we state differently in this part.

§ 356.32 What tax rules apply?

(a) *General.* Securities issued under this part are subject to all applicable taxes imposed under the Internal Revenue Code of 1986, or its successor. Under section 3124 of title 31, United States Code, the securities are exempt from taxation by a State or political subdivision of a State, except for State estate or inheritance taxes and other exceptions as provided in that section.

(b) *Treasury inflation-protected securities.* Special federal income tax rules for inflation-protected securities, including stripped inflation-protected principal and interest components, are set forth in Internal Revenue Service regulations.

§ 356.33 Does the Treasury have any discretion in the auction process?

(a) We have the discretion to:

(1) Accept, reject, or refuse to recognize any bids submitted in an auction;

(2) Award more or less than the amount of securities specified in the auction announcement;

(3) Waive any provision of this part for any bidder or submitter; and

(4) Change the terms and conditions of an auction.

(b) Our decisions under this part are final. We will provide a public notice if we change any auction provision, term, or condition.

(c) We reserve the right to modify the terms and conditions of new securities and to depart from the customary pattern of securities offerings at any time.

§ 356.34 What could happen if someone does not fully comply with the auction rules or fails to pay for securities?

(a) *General.* If a person or entity fails to comply with any of the auction rules in this part, we will consider the circumstances and take what we deem to be appropriate action. This could include barring the person or entity from participating in future auctions under this part. We also may refer the matter to an appropriate regulatory agency.

(b) *Liquidated damages.* If you fail to pay for awarded securities in a timely manner, we may require you to pay liquidated damages of up to one percent of the par amount of securities we awarded to you. Our use of this liquidated damages remedy does not preclude us from using any other appropriate remedy.

§ 356.35 Who approved the information collections?

The Office of Management and Budget approved the collections of information contained in §§ 356.11, 356.12, 356.13, 356.14, and 356.15 and in Appendix A of this part under control number 1535–0112.

Appendix A to Part 356—Bidder Categories

I. Categories of Eligible Bidders

We describe below various categories of bidders eligible to bid in Treasury auctions. You may use them to determine whether we consider you and other entities to be one bidder or more than one bidder for auction bidding and compliance purposes. For example, we use these definitions to apply the competitive and noncompetitive award limitations and for other requirements. Notwithstanding these definitions, we consider any persons or entities that intentionally act together with respect to bidding in a Treasury auction to collectively be one bidder. Even if an auction participant does not fall under any of the categories listed below, it is our intent that no auction participant receives a larger auction award by acquiring securities through others than it could have received had it been considered one of these types of bidders.

(a) *Corporation*—We consider a corporation to be one bidder. A corporation includes all of its affiliates, which may be persons, partnerships, or other entities. We use the term ''corporate structure'' to refer to the collection of affiliates that we consider collectively to be one bidder. An affiliate is any:

- entity that is more than 50% owned, directly or indirectly, by the corporation;
- entity that is more than 50% owned, directly or indirectly, by any other affiliate of the corporation;
- person or entity that owns, directly or indirectly, more than 50% of the corporation;
- person or entity that owns, directly or indirectly, more than 50% of any other affiliate of the corporation; or
- entity, a majority of whose board of directors or a majority of whose general partners are directors or officers of the corporation, or of any affiliate of the corporation.

We consider a business trust, such as a Massachusetts or Delaware business trust, to be a corporation.

(b) *Partnership*—We consider a partnership to be one bidder if it is a partnership for which the Internal Revenue Service has assigned a tax-identification number. A partnership includes all of its affiliates, which may be persons, corporations, general partners acting on behalf of the partnership, or other entities. We use the term ''partnership structure'' to refer to the collection of affiliates that we consider collectively to be one bidder. We may consider a partnership structure that contains one or more corporations as a ''partnership'' or a ''corporation,'' but not both.

An affiliate is any:

- entity that is more than 50% owned, directly or indirectly, by the partnership;
- entity that is more than 50% owned, directly or indirectly, by any other affiliate of the partnership;
- person or entity that owns, directly or indirectly, more than 50% of the partnership;
- person or entity that owns, directly or indirectly, more than 50% of any other affiliate of the partnership; or
- entity, a majority of whose general partners or a majority of whose board of directors are general partners or directors of the partnership or of any affiliate of the partnership.

(c) *Government-related entity*—We consider each of the following entities to be one bidder:

(1) a state government or the government of the District of Columbia.

(2) a unit of local government, including any county, city, municipality, or township, or other unit of general government as defined by the Bureau of the Census for statistical purposes.

(3) a commonwealth, territory, or possession of the United States.

(4) a governmental entity, body, or corporation established under Federal, State, or local law.

(5) a foreign central bank, the government of a foreign state, or an international organization in which the United States holds membership. This type of entity applies only when such entity is not using an account at the Federal Reserve Bank of New York (*See* paragraph (f)).

We generally consider an investment, reserve, or other fund of one of the above government-related entities as part of that entity and not a separate bidder. We will consider a government-related entity's fund to be a separate bidder if it meets the definition of the ''trust or other fiduciary estate'' category, or if applicable law requires that the investments of such fund be made separately.

(d) *Trust or other fiduciary estate*—We consider a legal entity created under a valid trust instrument, court order, or other legal authority that designates a trustee or fiduciary to act for the benefit of a named beneficiary to be one bidder. The following conditions must also be met for us to consider a trust entity to be one bidder:

- The legal entity must be able to be identified by:

1. the name or title of the trustee or fiduciary;
2. specific reference to the trust instrument, court order, or legal authority under which the trustee or fiduciary is acting; and
3. the unique IRS-assigned employer identification number (not social security number) for the entity.

- The trustee or fiduciary must make the decisions on participating in auctions on behalf of the trust or fiduciary estate.

(e) *Individual*—We consider a person to be one bidder, regardless of whether he or she is acting as an individual, a sole proprietor, or for any entity not otherwise defined as a bidder. If a person meets the definition of an affiliate within a corporate or partnership structure, we will consider him or her to be a bidder in this ''individual'' category if the corporation or partnership is not bidding in the same auction. We do not consider a person acting in an official capacity as an employee or other representative of a bidder defined in any other category to be an ''individual'' bidder. We consider a person, his or her spouse, and any children under the age of 21 having a common household to be one ''individual'' bidder.

(f) *Foreign and International Monetary Authority (''FIMA'')*—We consider one or more parties making up a foreign or international monetary organization that is not private in nature to be a bidder called a FIMA entity if at least one of the parties is a foreign or international entity that is (i) financial in nature, or (ii) not financial in nature but is authorized to open an account at the Federal Reserve Bank of New York. We consider each of the following entities to be a single FIMA entity:

(1) A foreign central bank or regional central bank.

(2) A foreign governmental monetary or finance entity.

(3) A non-governmental international financial organization that is not private in nature (for example, the International Monetary Fund, the World Bank, the Inter-American Development Bank, and the Asian Development Bank).

(4) A non-financial international organization that the United States participates in (for example, the United Nations).

(5) A multi-party arrangement of a governmental ministry and/or a foreign central bank or monetary authority with a United States Government Department and/or the Federal Reserve Bank of New York.

(6) A foreign or international monetary entity or an entity authorized by statute or by us to open accounts at the Federal Reserve Bank of New York.

(g) *Other Bidder*—We do not consider a bidder defined by any of the above categories to be a bidder in this category. For purposes of this definition, ''other bidder'' means an institution or organization with a unique IRS-assigned employer identification number. This definition includes such entities as an association, church, university, union, or club. This category does not include any person or entity acting in a fiduciary or investment management capacity, a sole proprietorship, an investment account, an investment fund, a form of registration, or investment ownership designation.

II. How To Obtain Separate Bidder Recognition

Under certain circumstances, we may recognize a major organizational component (*e.g.*, the parent or a subsidiary) in a corporate or partnership structure as a bidder separate from the larger corporate or partnership structure. We also may recognize two or more major organizational components collectively as one bidder. All of the following criteria must be met for such component(s) to qualify for recognition as a separate bidder:

(a) Such component(s) must be prohibited by law or regulation from exchanging, or must have established written internal procedures designed to prevent the exchange of, information related to bidding in Treasury auctions with any other component in the corporate or partnership structure;

(b) Such component(s) must not be created for the purpose of circumventing our bidding and award limitations;

(c) Decisions related to purchasing Treasury securities at auction and participation in specific auctions must be made by employees of such component(s). Employees of such component(s) that make decisions to purchase or dispose of Treasury securities must not perform the same function for other components within the corporate or partnership structure; and

(d) The records of such component(s) related to the bidding for, acquisition of, and disposition of Treasury securities must be maintained by such component(s). Those records must be identifiable—separate and apart from similar records for other components within the corporate or partnership structure. To obtain recognition as a separate bidder, each component or group of components must request such recognition from us, provide a description of the component or group and its position within the corporate or partnership structure, and provide the following certification:

[Name of the bidder] hereby certifies that to the best of its knowledge and belief it meets the criteria for a separate bidder as described in Appendix A to 31 CFR Part 356. The above-named bidder also certifies that it has established written policies or procedures, including ongoing compliance monitoring processes, that are designed to prevent the component or group of components from:

(1) Exchanging any of the following information with any other part of the corporate [partnership] structure: (a) Yields or rates at which it plans to bid; (b) amounts of securities for which it plans to bid; (c) positions that it holds or plans to acquire in a security being auctioned; and (d) investment strategies that it plans to follow regarding the security being auctioned, or

(2) In any way intentionally acting together with any other part of the corporate [partnership] structure with respect to formulating or entering bids in a Treasury auction.

The above-named bidder agrees that it will promptly notify the Department in writing when any of the information provided to obtain separate bidder status changes or when this certification is no longer valid.

Appendix B to Part 356—Formulas and Tables

I. Computation of Interest on Treasury Bonds and Notes.

II. Formulas for Conversion of Fixed-Principal Security Yields to Equivalent Prices.

III. Formulas for Conversion of Inflation-Protected Security Yields to Equivalent Prices.

IV. Computation of Adjusted Values and Payment Amounts for Stripped Inflation-Protected Interest Components.

V. Computation of Purchase Price, Discount Rate, and Investment Rate (Coupon-Equivalent Yield) for Treasury Bills.

The examples in this appendix are given for illustrative purposes only and are in no way a prediction of interest rates on any bills, notes, or bonds issued under this part.

In some of the following examples, we use intermediate rounding for ease in following the calculations. In actual practice, we generally do not round prior to determining the final result.

I. Computation of Interest on Treasury Bonds and Notes

A. Treasury Fixed-Principal Securities

1. *Regular Half-Year Payment Period.* We pay interest on marketable Treasury fixed-principal securities on a semiannual basis. The regular interest payment period is a full half-year of six calendar months. Examples of half-year periods are: (1) February 15 to August 15, (2) May 31 to November 30, and (3) February 29 to August 31 (in a leap year). Calculation of an interest payment for a fixed-principal note with a par amount of $1,000 and an interest rate of 8% is made in this manner: ($1,000 x .08) / 2 = $40. Specifically, a semiannual interest payment represents one half of one year's interest, and is computed on this basis regardless of the actual number of days in the half-year.

2. *Daily Interest Decimal.* We compute a daily interest decimal in cases where an interest payment period for a fixed-principal security is shorter or longer than six months or where accrued interest is payable by an investor. We base the daily interest decimal on the actual number of calendar days in the half-year or half-years involved. The number of days in any half-year period is shown in Table 1.

TABLE 1

Interest period	Beginning and ending days are 1st or 15th of the months listed under interest period (number of days)		Beginning and ending days are the last days of the months listed under interest period (number of days)	
	Regular year	Leap year	Regular year	Leap year
January to July	181	182	181	182
February to August	181	182	184	184
March to September	184	184	183	183
April to October	183	183	184	184
May to November	184	184	183	183
June to December	183	183	184	184
July to January	184	184	184	184
August to February	184	184	181	182
September to March	181	182	182	183
October to April	182	183	181	182
November to May	181	182	182	183
December to June	182	183	181	182

Table 2 below shows the daily interest decimals covering interest from ⅛% to 20% on $1,000 for one day in increments of ⅛ of one percent. These decimals represent $1/181$, $1/182$, $1/183$, or $1/184$ of a full semiannual interest payment, depending on which half-year is applicable.

TABLE 2.—DECIMAL FOR ONE DAY'S INTEREST ON $1,000 AT VARIOUS RATES OF INTEREST, PAYABLE SEMINANNUALLY OR ON A SEMIANNUAL BASIS, IN REGULAR YEARS OF 365 DAYS AND IN YEARS OF 366 DAYS (TO DETERMINE APPLICABLE NUMBER OF DAYS, SEE TABLE 1)

Rate per annum (percent)	Half-year of 184 days	Half-year of 183 days	Half-year of 182 days	Half-year of 181 days
⅛	0.003396739	0.003415301	0.003434066	0.003453039
¼	0.006793478	0.006830601	0.006868132	0.006906077
⅜	0.010190217	0.010245902	0.010302198	0.010359116
½	0.013586957	0.013661202	0.013736264	0.013812155
⅝	0.016983696	0.017076503	0.017170330	0.017265193
¾	0.020380435	0.020491803	0.020604396	0.020718232
⅞	0.023777174	0.023907104	0.024038462	0.024171271
1	0.027173913	0.027322404	0.027472527	0.027624309
1⅛	0.030570652	0.030737705	0.030906593	0.031077348
1¼	0.033967391	0.034153005	0.034340659	0.034530387
1⅜	0.037364130	0.037568306	0.037774725	0.037983425
1½	0.040760870	0.040983607	0.041208791	0.041436464
1⅝	0.044157609	0.044398907	0.044642857	0.044889503
1¾	0.047554348	0.047814208	0.048076923	0.048342541
1⅞	0.050951087	0.051229508	0.051510989	0.051795580
2	0.054347826	0.054644809	0.054945055	0.055248619
2⅛	0.057744565	0.058060109	0.058379121	0.058701657
2¼	0.061141304	0.061475410	0.061813187	0.062154696
2⅜	0.064538043	0.064890710	0.065247253	0.065607735
2½	0.067934783	0.068306011	0.068681319	0.069060773
2⅝	0.071331522	0.071721311	0.072115385	0.072513812
2¾	0.074728261	0.075136612	0.075549451	0.075966851
2⅞	0.078125000	0.078551913	0.078983516	0.079419890
3	0.081521739	0.081967213	0.082417582	0.082872928
3⅛	0.084918478	0.085382514	0.085851648	0.086325967
3¼	0.088315217	0.088797814	0.089285714	0.089779006
3⅜	0.091711957	0.092213115	0.092719780	0.093232044
3½	0.095108696	0.095628415	0.096153846	0.096685083
3⅝	0.098505435	0.099043716	0.099587912	0.100138122
3¾	0.101902174	0.102459016	0.103021978	0.103591160
3⅞	0.105298913	0.105874317	0.106456044	0.107044199
4	0.108695652	0.109289617	0.109890110	0.110497238
4⅛	0.112092391	0.112704918	0.113324176	0.113950276
4¼	0.115489130	0.116120219	0.116758242	0.117403315
4⅜	0.118885870	0.119535519	0.120192308	0.120856354
4½	0.122282609	0.122950820	0.123626374	0.124309392
4⅝	0.125679348	0.126366120	0.127060440	0.127762431
4¾	0.129076087	0.129781421	0.130494505	0.131215470
4⅞	0.132472826	0.133196721	0.133928571	0.134668508
5	0.135869565	0.136612022	0.137362637	0.138121547
5⅛	0.139266304	0.140027322	0.140796703	0.141574586
5¼	0.142663043	0.143442623	0.144230769	0.145027624
5⅜	0.146059783	0.146857923	0.147664835	0.148480663
5½	0.149456522	0.150273224	0.151098901	0.151933702
5⅝	0.152853261	0.153688525	0.154532967	0.155386740
5¾	0.156250000	0.157103825	0.157967033	0.158839779
5⅞	0.159646739	0.160519126	0.161401099	0.162292818
6	0.163043478	0.163934426	0.164835165	0.165745856
6⅛	0.166440217	0.167349727	0.168269231	0.169198895
6¼	0.169836957	0.170765027	0.171703297	0.172651934
6⅜	0.173233696	0.174180328	0.175137363	0.176104972
6½	0.176630435	0.177595628	0.178571429	0.179558011
6⅝	0.180027174	0.181010929	0.182005495	0.183011050
6¾	0.183423913	0.184426230	0.185439560	0.186464088
6⅞	0.186820652	0.187841530	0.188873626	0.189917127
7	0.190217391	0.191256831	0.192307692	0.193370166
7⅛	0.193614130	0.194672131	0.195741758	0.196823204
7¼	0.197010870	0.198087432	0.199175824	0.200276243
7⅜	0.200407609	0.201502732	0.202609890	0.203729282
7½	0.203804348	0.204918033	0.206043956	0.207182320
7⅝	0.207201087	0.208333333	0.209478022	0.210635359
7¾	0.210597826	0.211748634	0.212912088	0.214088398
7⅞	0.213994565	0.215163934	0.216346154	0.217541436
8	0.217391304	0.218579235	0.219780220	0.220994475
8⅛	0.220788043	0.221994536	0.223214286	0.224447514

TABLE 2.—DECIMAL FOR ONE DAY'S INTEREST ON $1,000 AT VARIOUS RATES OF INTEREST, PAYABLE SEMINANNUALLY OR ON A SEMIANNUAL BASIS, IN REGULAR YEARS OF 365 DAYS AND IN YEARS OF 366 DAYS (TO DETERMINE APPLICABLE NUMBER OF DAYS, SEE TABLE 1)—Continued

Rate per annum (percent)	Half-year of 184 days	Half-year of 183 days	Half-year of 182 days	Half-year of 181 days
8¼	0.224184783	0.225409836	0.226648352	0.227900552
8⅜	0.227581522	0.228825137	0.230082418	0.231353591
8½	0.230978261	0.232240437	0.233516484	0.234806630
8⅝	0.234375000	0.235655738	0.236950549	0.238259669
8¾	0.237771739	0.239071038	0.240384615	0.241712707
8⅞	0.241168478	0.242486339	0.243818681	0.245165746
9	0.244565217	0.245901639	0.247252747	0.248618785
9⅛	0.247961957	0.249316940	0.250686813	0.252071823
9¼	0.251358696	0.252732240	0.254120879	0.255524862
9⅜	0.254755435	0.256147541	0.257554945	0.258977901
9½	0.258152174	0.259562842	0.260989011	0.262430939
9⅝	0.261548913	0.262978142	0.264423077	0.265883978
9¾	0.264945652	0.266393443	0.267857143	0.269337017
9⅞	0.268342391	0.269808743	0.271291209	0.272790055
10	0.271739130	0.273224044	0.274725275	0.276243094
10⅛	0.275135870	0.276639344	0.278159341	0.279696133
10¼	0.278532609	0.280054645	0.281593407	0.283149171
10⅜	0.281929348	0.283469945	0.285027473	0.286602210
10½	0.285326087	0.286885246	0.288461538	0.290055249
10⅝	0.288722826	0.290300546	0.291895604	0.293508287
10¾	0.292119565	0.293715847	0.295329670	0.296961326
10⅞	0.295516304	0.297131148	0.298763736	0.300414365
11	0.298913043	0.300546448	0.302197802	0.303867403
11⅛	0.302309783	0.303961749	0.305631868	0.307320442
11¼	0.305706522	0.307377049	0.309065934	0.310773481
11⅜	0.309103261	0.310792350	0.312500000	0.314226519
11½	0.312500000	0.314207650	0.315934066	0.317679558
11⅝	0.315896739	0.317622951	0.319368132	0.321132597
11¾	0.319293478	0.321038251	0.322802198	0.324585635
11⅞	0.322690217	0.324453552	0.326236264	0.328038674
12	0.326086957	0.327868852	0.329670330	0.331491713
12⅛	0.329483696	0.331284153	0.333104396	0.334944751
12¼	0.332880435	0.334699454	0.336538462	0.338397790
12⅜	0.336277174	0.338114754	0.339972527	0.341850829
12½	0.339673913	0.341530055	0.343406593	0.345303867
12⅝	0.343070652	0.344945355	0.346840659	0.348756906
12¾	0.346467391	0.348360656	0.350274725	0.352209945
12⅞	0.349864130	0.351775956	0.353708791	0.355662983
13	0.353260870	0.355191257	0.357142857	0.359116022
13⅛	0.356657609	0.358606557	0.360576923	0.362569061
13¼	0.360054348	0.362021858	0.364010989	0.366022099
13⅜	0.363451087	0.365437158	0.367445055	0.369475138
13½	0.366847826	0.368852459	0.370879121	0.372928177
13⅝	0.370244565	0.372267760	0.374313187	0.376381215
13¾	0.373641304	0.375683060	0.377747253	0.379834254
13⅞	0.377038043	0.379098361	0.381181319	0.383287293
14	0.380434783	0.382513661	0.384615385	0.386740331
14⅛	0.383831522	0.385928962	0.388049451	0.390193370
14¼	0.387228261	0.389344262	0.391483516	0.393646409
14⅜	0.390625000	0.392759563	0.394917582	0.397099448
14½	0.394021739	0.396174863	0.398351648	0.400552486
14⅝	0.397418478	0.399590164	0.401785714	0.404005525
14¾	0.400815217	0.403005464	0.405219780	0.407458564
14⅞	0.404211957	0.406420765	0.408653846	0.410911602
15	0.407608696	0.409836066	0.412087912	0.414364641
15⅛	0.411005435	0.413251366	0.415521978	0.417817680
15¼	0.414402174	0.416666667	0.418956044	0.421270718
15⅜	0.417798913	0.420081967	0.422390110	0.424723757
15½	0.421195652	0.423497268	0.425824176	0.428176796
15⅝	0.424592391	0.426912568	0.429258242	0.431629834
15¾	0.427989130	0.430327869	0.432692308	0.435082873
15⅞	0.431385870	0.433743169	0.436126374	0.438535912
16	0.434782609	0.437158470	0.439560440	0.441988950
16⅛	0.438179348	0.440573770	0.442994505	0.445441989
16¼	0.441576087	0.443989071	0.446428571	0.448895028
16⅜	0.444972826	0.447404372	0.449862637	0.452348066
16½	0.448369565	0.450819672	0.453296703	0.455801105
16⅝	0.451766304	0.454234973	0.456730769	0.459254144
16¾	0.455163043	0.457650273	0.460164835	0.462707182

TABLE 2.—DECIMAL FOR ONE DAY'S INTEREST ON $1,000 AT VARIOUS RATES OF INTEREST, PAYABLE SEMINANNUALLY OR ON A SEMIANNUAL BASIS, IN REGULAR YEARS OF 365 DAYS AND IN YEARS OF 366 DAYS (TO DETERMINE APPLICABLE NUMBER OF DAYS, SEE TABLE 1)—Continued

Rate per annum (percent)	Half-year of 184 days	Half-year of 183 days	Half-year of 182 days	Half-year of 181 days
16⅞	0.458559783	0.461065574	0.463598901	0.466160221
17	0.461956522	0.464480874	0.467032967	0.469613260
17⅛	0.465353261	0.467896175	0.470467033	0.473066298
17¼	0.468750000	0.471311475	0.473901099	0.476519337
17⅜	0.472146739	0.474726776	0.477335165	0.479972376
17½	0.475543478	0.478142077	0.480769231	0.483425414
17⅝	0.478940217	0.481557377	0.484203297	0.486878453
17¾	0.482336957	0.484972678	0.487637363	0.490331492
17⅞	0.485733696	0.488387978	0.491071429	0.493784530
18	0.489130435	0.491803279	0.494505495	0.497237569
18⅛	0.492527174	0.495218579	0.497939560	0.500690608
18¼	0.495923913	0.498633880	0.501373626	0.504143646
18⅜	0.499320652	0.502049180	0.504807692	0.507596685
18½	0.502717391	0.505464481	0.508241758	0.511049724
18⅝	0.506114130	0.508879781	0.511675824	0.514502762
18¾	0.509510870	0.512295082	0.515109890	0.517955801
18⅞	0.512907609	0.515710383	0.518543956	0.521408840
19	0.516304348	0.519125683	0.521978022	0.524861878
19⅛	0.519701087	0.522540984	0.525412088	0.528314917
19¼	0.523097826	0.525956284	0.528846154	0.531767956
19⅜	0.526494565	0.529371585	0.532280220	0.535220994
19½	0.529891304	0.532786885	0.535714286	0.538674033
19⅝	0.533288043	0.536202186	0.539148352	0.542127072
19¾	0.536684783	0.539617486	0.542582418	0.545580110
19⅞	0.540081522	0.543032787	0.546016484	0.549033149
20	0.543478261	0.546448087	0.549450549	0.552486188

3. *Short First Payment Period.* In cases where the first interest payment period for a Treasury fixed-principal security covers less than a full half-year period (a ''short coupon''), we multiply the daily interest decimal by the number of days from, but not including, the issue date to, and including, the first interest payment date. This calculation results in the amount of the interest payable per $1,000 par amount. In cases where the par amount of securities is a multiple of $1,000, we multiply the appropriate multiple by the unrounded interest payment amount per $1,000 par amount.

Example

A 2-year note paying 8⅜% interest was issued on July 2, 1990, with the first interest payment on December 31, 1990. The number of days in the full half-year period of June 30 to December 31, 1990, was 184 (*See* Table 1). The number of days for which interest actually accrued was 182 (not including July 2, but including December 31). The daily interest decimal, $0.227581522 (*See* Table 2, line for 8⅜%, under the column for half-year of 184 days), was multiplied by 182, resulting in a payment of $41.419837004 per $1,000. For $20,000 of these notes, $41.419837004 would be multiplied by 20, resulting in a payment of $828.39674008 ($828.40).

4. *Long First Payment Period.* In cases where the first interest payment period for a bond or note covers more than a full half-year period (a ''long coupon''), we multiply the daily interest decimal by the number of days from, but not including, the issue date to, and including, the last day of the fractional period that ends one full half-year before the interest payment date. We add that amount to the regular interest amount for the full half-year ending on the first interest payment date, resulting in the amount of interest payable for $1,000 par amount. In cases where the par amount of securities is a multiple of $1,000, the appropriate multiple should be applied to the unrounded interest payment amount per $1,000 par amount.

Example

A 5-year 2-month note paying 7⅞% interest was issued on December 3, 1990, with the first interest payment due on August 15, 1991. Interest for the regular half-year portion of the payment was computed to be $39.375 per $1,000 par amount. The fractional portion of the payment, from December 3 to February 15, fell in a 184-day half-year (August 15, 1990, to February 15, 1991). Accordingly, the daily interest decimal for 7⅞% was $0.213994565. This decimal, multiplied by 74 (the number of days from but not including December 3, 1990, to and including February 15), resulted in interest for the fractional portion of $15.835597810. When added to $39.375 (the normal interest payment portion ending on August 15, 1991), this produced a first interest payment of $55.210597810, or $55.21 per $1,000 par amount. For $7,000 par amount of these notes, $55.210597810 would be multiplied by 7, resulting in an interest payment of $386.474184670 ($386.47).

B. Treasury Inflation-Protected Securities

1. *Indexing Process.* We pay interest on marketable Treasury inflation-protected securities on a semiannual basis. We issue inflation-protected securities with a stated rate of interest that remains constant until maturity. Interest payments are based on the security's inflation-adjusted principal at the time we pay interest. We make this adjustment by multiplying the par amount of the security by the applicable Index Ratio.

2. *Index Ratio.* The numerator of the Index Ratio, the Ref CPI_{Date}, is the index number applicable for a specific day. The denominator of the Index Ratio is the Ref CPI applicable for the original issue date. However, when the dated date is different from the original issue date, the denominator is the Ref CPI applicable for the dated date. The formula for calculating the Index Ratio is:

$$\text{Index Ratio}_{\text{Date}} = \frac{\text{Ref CPI}_{\text{Date}}}{\text{Ref CPI}_{\text{Issue Date}}}$$

Where Date = valuation date

3. *Reference CPI.* The Ref CPI for the first day of any calendar month is the CPI for the third preceding calendar month. For example, the Ref CPI applicable to April 1 in any year is the CPI for January, which is reported in February. We determine the Ref CPI for any other day of a month by a linear interpolation between the Ref CPI applicable to the first day of the month in which the day falls (in the example, January) and the Ref CPI applicable to the first day of the next month (in the example, February). For interpolation purposes, we truncate calculations with regard to the Ref CPI and the Index Ratio for a specific date to six decimal places, and round to five decimal places. Therefore the Ref CPI and the Index Ratio for a particular date will be expressed to five decimal places.

(i) The formula for the Ref CPI for a specific date is:

$$\text{Ref CPI}_{\text{Date}} = \text{Ref CPI}_{M} + \frac{t-1}{D}\left[\text{Ref CPI}_{M+1} - \text{Ref CPI}_{M}\right]$$

Where Date = valuation date

D = the number of days in the month in which Date falls

t = the calendar day corresponding to Date

CPI_M = CPI reported for the calendar month M by the Bureau of Labor Statistics

Ref CPI_M = Ref CPI for the first day of the calendar month in which Date falls, *e.g.,* Ref $CPI_{April\ 1}$ is the $CPI_{January}$

Ref CPI_{M+1} = Ref CPI for the first day of the calendar month immediately following Date

(ii) For example, the Ref CPI for April 15, 1996 is calculated as follows:

$$\text{Ref CPI}_{\text{April 15, 1996}} = \text{Ref CPI}_{\text{April 1, 1996}} + \frac{14}{30}\left[\text{Ref CPI}_{\text{May 1, 1996}} - \text{Ref CPI}_{\text{April 1, 1996}}\right]$$

Where D = 30, t = 15

Ref $CPI_{April\ 1,\ 1996}$ = 154.40, the non-seasonally adjusted CPI–U for January 1996.

Ref $CPI_{May\ 1,\ 1996}$ = 154.90, the non-seasonally adjusted CPI–U for February 1996.

(iii) Putting these values in the equation in paragraph (ii) above:

$$\text{Ref CPI}_{\text{April 15, 1996}} = 154.40 + \frac{14}{30}\left[154.90 - 154.40\right]$$

$$\text{Ref CPI}_{\text{April 15, 1996}} = 154.633333333$$

This value truncated to six decimals is 154.633333; rounded to five decimals it is 154.63333.

(iv) To calculate the Index Ratio for April 16, 1996, for an inflation-protected security issued on April 15, 1996, the Ref $CPI_{April\ 16,\ 1996}$ must first be calculated. Using the same values in the equation above except that t=16, the Ref $CPI_{April\ 16,\ 1996}$ is 154.65000.

The Index Ratio for April 16, 1996 is:

$$\text{Index Ratio}_{\text{April 16, 1996}} = 154.65000/154.63333 = 1.000107803.$$

This value truncated to six decimals is 1.000107; rounded to five decimals it is 1.00011.

4. *Index Contingencies.*

(i) If a previously reported CPI is revised, we will continue to use the previously reported (unrevised) CPI in calculating the principal value and interest payments.

If the CPI is rebased to a different year, we will continue to use the CPI based on the base reference period in effect when the security was first issued, as long as that CPI continues to be published.

(ii) We will replace the CPI with an appropriate alternative index if, while an inflation-protected security is outstanding, the applicable CPI is:

- Discontinued,
- In the judgment of the Secretary, fundamentally altered in a manner materially adverse to the interests of an investor in the security, or
- In the judgment of the Secretary, altered by legislation or Executive Order in a manner materially adverse to the interests of an investor in the security.

(iii) If we decide to substitute an alternative index we will consult with the Bureau of Labor Statistics or any successor agency. We will then notify the public of the substitute index and how we will apply it. Determinations of the Secretary in this regard will be final.

(iv) If the CPI for a particular month is not reported by the last day of the following month, we will announce an index number based on the last available twelve-month change in the CPI. We will base our calculations of our payment obligations that rely on that month's CPI on the index number we announce.

(a) For example, if the CPI for month M is not reported timely, the formula for calculating the index number to be used is:

$$CPI_M = CPI_{M-1} \times \left[\frac{CPI_{M-1}}{CPI_{M-13}}\right]^{1/12}$$

(b) Generalizing for the last reported CPI issued N months prior to month M:

$$CPI_M = CPI_{M-N} \times \left[\frac{CPI_{M-N}}{CPI_{M-N-12}}\right]^{N/12}$$

(c) If it is necessary to use these formulas to calculate an index number, we will use that number for all subsequent calculations that rely on the month's index number. We will not replace it with the actual CPI when it is reported, except for use in the above formulas. If it becomes necessary to use the above formulas to derive an index number, we will use the last CPI that has been reported to calculate CPI numbers for months for which the CPI has not been reported timely.

5. *Computation of Interest for a Regular Half-Year Payment Period.* Interest on marketable Treasury inflation-protected securities is payable on a semiannual basis. The regular interest payment period is a full half-year or six calendar months. Examples of half-year periods are January 15 to July 15, and April 15 to October 15. An interest payment will be a fixed percentage of the value of the inflation-adjusted principal, in current dollars, for the date on which it is paid. We will calculate interest payments by multiplying one-half of the specified annual interest rate for the inflation-protected securities by the inflation-adjusted principal for the interest payment date. Specifically, we compute a semiannual interest payment on the basis of one-half of one year's interest regardless of the actual number of days in the half-year.

Example

A 10-year inflation-protected note paying 3⅞% interest was issued on January 15, 1999, with the first interest payment on July 15, 1999. The Ref CPI on January 15, 1999 (Ref $CPI_{IssueDate}$) was 164, and the Ref CPI on July 15, 1999 (Ref CPI_{Date}) was 166.2. For a par amount of $100,000, the inflation-adjusted principal on July 15, 1999, was (166.2/164) × $100,000, or $101,341. This amount was multiplied by .03875/2, or .019375, resulting in a payment of $1,963.48.

C. Accrued Interest

1. You will have to pay accrued interest on a Treasury bond or note when interest accrues prior to the issue date of the security. Because you receive a full interest payment despite having held the security for only a portion of the interest payment period, you must compensate us through the payment of accrued interest at settlement.

2. For a Treasury fixed-principal security, if accrued interest covers a fractional portion of a full half-year period, the number of days in the full half-year period and the stated interest rate will determine the daily interest decimal to use in computing the accrued interest. We multiply the decimal by the number of days for which interest has accrued.

3. If a reopened bond or note has a long first interest payment period (a ''long coupon''), and the dated date for the reopened issue is less than six full months before the first interest payment, the accrued interest will fall into two separate half-year periods. A separate daily interest decimal must be multiplied by the respective number of days in each half-year period during which interest has accrued.

4. We round all accrued interest computations to five decimal places for a $1,000 par amount, using normal rounding procedures. We calculate accrued interest for a par amount of securities greater than $1,000 by applying the appropriate multiple to accrued interest payable for $1,000 par amount, rounded to five decimal places.

5. For an inflation-protected security, we calculate accrued interest as shown in section III, paragraphs A and B of this appendix.

Examples. (1) *Treasury Fixed-Principal Securities—(i) Involving One Half-Year:* A note paying interest at a rate of 6¾%, originally issued on May 15, 2000, as a 5-year note with a first interest payment date of November 15, 2000, was reopened as a 4-year 9-month note on August 15, 2000. Interest had accrued for 92 days, from May 15 to August 15. The regular interest period from May 15 to November 15, 2000, covered 184 days. Accordingly, the daily interest decimal, $0.183423913, multiplied by 92, resulted in accrued interest payable of $16.874999996, or $16.87500, for each $1,000 note purchased. If the notes have a par amount of $150,000, then 150 is multiplied by $16.87500, resulting in an amount payable of $2,531.25.

(2) *Involving Two Half-Years:*

A 10¾% bond, originally issued on July 2, 1985, as a 20-year 1-month bond, with a first interest payment date of February 15, 1986, was reopened as a 19-year 10-month bond on November 4, 1985. Interest had accrued for 44 days, from July 2 to August 15, 1985, during a 181-day half-year (February 15 to August 15); and for 81 days, from August 15 to November 4, during a 184-day half-year (August 15, 1985, to February 15, 1986). Accordingly, $0.296961326 was multiplied by 44, and $0.292119565 was multiplied by 81, resulting in products of $13.066298344 and $23.661684765 which, added together, resulted in accrued interest payable of $36.727983109, or $36.72798, for each $1,000 bond purchased. If the bonds have a par amount of $11,000, then 11 is multiplied by $36.72798, resulting in an amount payable of $404.00778 ($404.01).

II. Formulas for Conversion of Fixed-Principal Security Yields to Equivalent Prices

Definitions

P = price per 100 (dollars), rounded to three places, using normal rounding procedures

C = the regular annual interest per $100, payable semiannually, *e.g.*, 6.125 (the decimal equivalent of a 6⅛% interest rate)

i = nominal annual rate of return or yield to maturity, based on semiannual interest payments and expressed in decimals, *e.g.*, .0719

n = number of full semiannual periods from the issue date to maturity, except that, if the issue date is a coupon frequency date, n will be one less than the number of full semiannual periods remaining to maturity. Coupon frequency dates are the two semiannual dates based on the maturity date of each note or bond issue. For example, a security maturing on November 15, 2015, would have coupon frequency dates of May 15 and November 15.

r = (1) number of days from the issue date to the first interest payment (regular or short first payment period), or (2) number of days in fractional portion (or ''initial short period'') of long first payment period

s = (1) number of days in the full semiannual period ending on the first interest payment date (regular or short first payment period), or (2) number of days in the full semiannual period in which the fractional portion of a long first payment period falls, ending at the onset of the regular portion of the first interest payment

$v^n = 1/[1 + (i/2)]^n$ = present value of 1 due at the end of n periods

$a_{n\rceil} = (1—v^n)/(i/2) = v + v^2 + v^3 + . . . + v^n$ = present value of 1 per period for n periods

A = accrued interest

A. *For fixed-principal securities with a regular first interest payment period:*

Formula:

$$P[1 + (r/s)(i/2)] = (C/2)(r/s) + (C/2)\, a_{n\rceil} + 100\, v^n$$

Example:

For an 8¾% 30-year bond issued May 15, 1990, due May 15, 2020, with interest payments on November 15 and May 15, solve for the price per 100 (P) at a yield of 8.84%.

Definitions:

C = 8.75
i = .0884
r = 184 (May 15 to November 15, 1990)
s = 184 (May 15 to November 15, 1990)
n = 59 (There are 60 full semiannual periods, but n is reduced by 1 because the issue date is a coupon frequency date.)
$v^n = 1/[(1 + .0884/2)]^{59}$, or .077940
$a_{n\rceil} = (1—.077940)/.0442$, or 20.861086

Resolution:

$$P[1 + (r/s)(i/2)] = (C/2)(r/s) + (C/2)\, a_{n\rceil} + 100\, v^n \text{ or}$$
$$P[1 + (184/184)(.0884/2)] = (8.75/2)(184/184) + (8.75/2)(20.861086) + 100(.077940)$$
$$(1)\ P[1 + .0442] = 4.375 + 91.267251 + 7.7940$$
$$(2)\ P[1.0442] = 103.436251$$
$$(3)\ P = 103.436251 / 1.0442$$
$$(4)\ P = 99.057892$$
$$(5)\ P = 99.058$$

B. *For fixed-principal securities with a short first interest payment period:*

Formula:

$$P[1 + (r/s)(i/2)] = (C/2)(r/s) + (C/2)\, a_{n\rceil} + 100\, v^n$$

Example:

For an 8½% 2-year note issued April 2, 1990, due March 31, 1992, with interest payments on September 30 and March 31, solve for the price per 100 (P) at a yield of 8.59%.

Definitions:

C = 8.50
i = .0859
n = 3
r = 181 (April 2 to September 30, 1990)
s = 183 (March 31 to September 30, 1990)
$v^n = 1/[(1 + .0859/2)]^3$, or .881474
$a_{n\rceil} = (1—.881474)/.04295$, or 2.759627

Resolution:

$$P[1 + (r/s)(i/2)] = (C/2)(r/s) + (C/2)\, a_{\overline{n}|} + 100\, v^n \quad \text{or}$$
$$P[1 + (181/183)(.0859/2)] = (8.50/2)(181/183) + (8.50/2)(2.759627) + 100(.881474)$$

(1) $P[1 + .042481] = 4.203552 + 11.728415 + 88.1474$
(2) $P[1.042481] = 104.079367$
(3) $P = 104.079367 / 1.042481$
(4) $P = 99.838143$
(5) $P = 99.838$

C. *For fixed-principal securities with a long first interest payment period:*

Formula:

$$P[1 + (r/s)(i/2)] = [(C/2)(r/s)]v + (C/2)\, a_{\overline{n}|} + 100\, v^n$$

Example:

For an 8½% 5-year 2-month note issued March 1, 1990, due May 15, 1995, with interest payments on November 15 and May 15 (first payment on November 15, 1990), solve for the price per 100 (P) at a yield of 8.53%.

Definitions:

C = 8.50
i = .0853
n = 10
r = 75 (March 1 to May 15, 1990, which is the fractional portion of the first interest payment)
s = 181 (November 15, 1989, to May 15, 1990)
$v = 1/(1+.0853/2)$, or .959095
$v^n = 1/(1+.0853/2)^{10}$, or .658589
$a_{\overline{n}|} = (1 - .658589)/.04265$, or 8.004947

Resolution:

$$P[1 + (r/s)(i/2)] = [(C/2)(r/s)]v + (C/2)\, a_{\overline{n}|} + 100\, v^n \quad \text{or}$$
$$P[1 + (75/181)(.0853/2)] = [(8.50/2)(75/181)].959095 + (8.50/2)(8.004947) + 100(.658589)$$

(1) $P[1 + .017673] = 1.689014 + 34.021025 + 65.8589$
(2) $P[1.017673] = 101.568939$
(3) $P = 101.568939 / 1.017673$
(4) $P = 99.805084$
(5) $P = 99.805$

D. *(1) For fixed-principal securities reopened during a regular interest period where the purchase price includes predetermined accrued interest.*

(2) *For new fixed-principal securities accruing interest from the coupon frequency date immediately preceding the issue date, with the interest rate established in the auction being used to determine the accrued interest payable on the issue date.*

Formula:

$$(P + A)[1 + (r/s)(i/2)] = C/2 + (C/2)\, a_{\overline{n}|} + 100\, v^n$$

Where: $A = [(s - r)/s](C/2)$

Example:

For a 9½% 10-year note with interest accruing from November 15, 1985, issued November 29, 1985, due November 15, 1995, and interest payments on May 15 and November 15, solve for the price per 100 (P) at a yield of 9.54%. Accrued interest is from November 15 to November 29 (14 days).

Definitions:

C = 9.50
i = .0954
n = 19
r = 167 (November 29, 1985, to May 15, 1986)
s = 181 (November 15, 1985, to May 15, 1986)
$v^n = 1/[(1 + .0954/2)]^{19}$, or .412570400
$a_{\overline{n}|} = (1 - .412570)/.0477$, or 12.315094
$A = [(181 - 167)/181](9.50/2)$, or .367403

Resolution:

$$(P+A)[1 + (r/s)(i/2)] = [(C/2) + (C/2)\, a_{n\rceil} + 100\, v^n \text{ or}$$

$$(P + .367403)[1 + (167/181)(.0954/2)] = (9.50/2)+(9.50/2)\ (12.315094)+100(.412570)$$

$$(1)\ (P + .367403)[1 + .044011] = 4.75 + 58.496697 + 41.2570$$

$$(2)\ (P + .367403)[1.044011] = 104.503697$$

$$(3)\ (P + .367403) = 104.503697 / 1.044011$$

$$(4)\ (P + .367403) = 100.098272$$

$$(5)\ P = 100.098272 - .367403$$

$$(6)\ P = 99.730869$$

$$(7)\ P = 99.731$$

E. *For fixed-principal securities reopened during the regular portion of a long first payment period:*

Formula:

$$(P + A)[1 + (r/s)(i/2)] = (r'/s'')(C/2) + C/2 + (C/2)\, a_{n\rceil} + 100\, v^n$$

Where:

A = AI′ + AI

AI′ = (r′/s″)(C/2)

AI = [(s − r)/s](C/2) and

r = number of days from the reopening date to the first interest payment date

s = number of days in the semiannual period for the regular portion of the first interest payment period

r′ = number of days in the fractional portion (or ''initial short period'') of the first interest payment period

s″ = number of days in the semiannual period ending with the commencement date of the regular portion of the first interest payment period

Example:

A 10¾% 19-year 9-month bond due August 15, 2005, is issued on July 2, 1985, and reopened on November 4, 1985, with interest payments on February 15 and August 15 (first payment on February 15, 1986), solve for the price per 100 (P) at a yield of 10.47%. Accrued interest is calculated from July 2 to November 4.

Definitions:

C = 10.75

i = .1047

n = 39

r = 103 (November 4, 1985, to February 15, 1986)

s = 184 (August 15, 1985, to February 15, 1986)

r′ = 44 (July 2 to August 15, 1985)

s″ = 181 (February 15 to August 15, 1985)

$v^n = 1/[(1 + .1047/2)]^{39}$, or .136695

$a^n\rceil = (1 - .136695)/.05235$, or 16.491022

AI′ = (44/181)(10.75 / 2), or 1.306630

AI = [(184 − 103)/184](10.75/2), or 2.366168

A = AI′ + AI, or 3.672798

Resolution:

$$(P + A)[1 + (r/s)(i/2)] = (r'/s'')(C/2) + C/2 + (C/2)\, a_{n\rceil} + 100\, v^n \quad \text{or}$$

$$(P + 3.672798)[1 + (103/184)(.1047/2)] = (44/181)(10.75/2) + 10.75/2 + (10.75/2)(16.491022) + 100(.136695)$$

$$(1)\ (P + 3.672798)[1 + .029305] = 1.306630 + 5.375 + 88.639243 + 13.6695$$

$$(2)\ (P + 3.672798)[1.029305] = 108.990373$$

$$(3)\ (P + 3.672798) = 108.990373 / 1.029305$$

$$(4)\ (P + 3.672798) = 105.887344$$

$$(5)\ P = 105.887344 - 3.672798$$

$$(6)\ P = 102.214546$$

$$(7)\ P = 102.215$$

F. *For fixed-principal securities reopened during a short first payment period:*

Formula:

$$(P + A)[1 + (r/s)(i/2)] = (r'/s)(C/2) + (C/2)\, a_{n\rceil} + 100\, v^n$$

Where:

A = [(r′ − r)/s](C/2) and

r′ = number of days from the original issue date to the first interest payment date

Example:

For a 10½% 8-year note due May 15, 1991, originally issued on May 16, 1983, and reopened on August 15, 1983, with interest payments on November 15 and May 15 (first payment on November 15, 1983), solve for the price per 100 (P) at a yield of 10.53%. Accrued interest is calculated from May 16 to August 15.

Definitions:

C = 10.50

i = .1053

n = 15

r = 92 (August 15, 1983, to November 15, 1983)

s = 184 (May 15, 1983, to November 15, 1983)

r′ = 183 (May 16, 1983, to November 15, 1983)

$v^n = 1/[(1 + .1053/2)]^{15}$, or .463170

$a_{n\rceil} = (1—.463170)/.05265$, or 10.196201

A = [(183 − 92) / 184](10.50 / 2), or 2.596467

Resolution:

$$(P + A)[1 + (r/s)(i/2)] = (r'/s)(C/2) + (C/2)\, a_{n\rceil} + 100\, v^n \text{ or}$$

$$(P + 2.596467)[1+(92/184)(.1053/2)] = (183/184)(10.50/2) + (10.50/2)(10.196201) + 100(.463170)$$

$$(1)\ (P + 2.596467)[1 + .026325] = 5.221467 + 53.530055 + 46.3170$$

$$(2)\ (P + 2.596467)[1.026325] = 105.068522$$

$$(3)\ (P + 2.596467) = 105.068522 / 1.026325$$

$$(4)\ (P + 2.596467) = 102.373539$$

$$(5)\ P = 102.373539 - 2.596467$$

$$(6)\ P = 99.777072$$

$$(7)\ P = 99.777$$

G. *For fixed-principal securities reopened during the fractional portion (initial short period) of a long first payment period:*

Formula:

$$(P + A)[1 + (r/s)(i/2)] = [(r'/s)(C/2)]v + (C/2)\, a_{n\rceil} + 100\, v^n$$

Where:

A = [(r′ − r)/s](C/2) and

r = number of days from the reopening date to the end of the short period

r′ = number of days in the short period

s = number of days in the semiannual period ending with the end of the short period

Example:

For a 9¾% 6-year 2-month note due December 15, 1994, originally issued on October 15, 1988, and reopened on November 15, 1988, with interest payments on June 15 and December 15 (first payment on June 15, 1989), solve for the price per 100 (P) at a yield of 9.79%. Accrued interest is calculated from October 15 to November 15.

Definitions:

C = 9.75

i = .0979

n = 12

r = 30 (November 15, 1988, to December 15, 1988)

s = 183 (June 15, 1988, to December 15, 1988)

r′ = 61 (October 15, 1988, to December 15, 1988)

v = 1 / (1 + .0979/2), or .953334

$v^n = [1 / (1 + .0979/2)]^{12}$, or .563563

$a_{n\rceil} = (1 - .563563)/.04895$, or 8.915975

A = [(61—30)/183](9.75/2), or .825820

Resolution:

$$(P + A)[1 + (r/s)(i/2)] = [(r'/s)(C/2)]v + (C/2)\, a_{\overline{n}|} + 100\, v^n \quad \text{or}$$

$$(P + .825820)[1 + (30/183)(.0979/2)] = [(61/183)(9.75/2)](.953334) + (9.75/2)(8.915975) + 100(.563563)$$

$$(1)\ (P + .825820)[1 + .008025] = 1.549168 + 43.465378 + 56.3563$$

$$(2)\ (P + .825820)[1.008025] = 101.370846$$

$$(3)\ (P + .825820) = 101.370846 / 1.008025$$

$$(4)\ (P + .825820) = 100.563821$$

$$(5)\ P = 100.563821 - .825820$$

$$(6)\ P = 99.738001$$

$$(7)\ P = 99.738$$

III. Formulas for Conversion of Inflation-Protected Security Yields to Equivalent Prices

Definitions:

P = unadjusted or real price per 100 (dollars)

P_{adj} = inflation adjusted price; P × $\text{Index Ratio}_{Date}$

A = unadjusted accrued interest per $100 original principal

A_{adj} = inflation adjusted accrued interest; A × $\text{Index Ratio}_{Date}$

SA = settlement amount including accrued interest in current dollars per $100 original principal; $P_{adj} + A_{adj}$

r = days from settlement date to next coupon date

s = days in current semiannual period

i = real yield, expressed in decimals (*e.g.,* 0.0325)

C = real annual coupon, payable semiannually, in terms of real dollars paid on $100 initial, or real, principal of the security

n = number of full semiannual periods from issue date to maturity date, except that, if the issue date is a coupon frequency date, n will be one less than the number of full semiannual periods remaining until maturity. Coupon frequency dates are the two semiannual dates based on the maturity date of each note or bond issue. For example, a security maturing on July 15, 2026 would have coupon frequency dates of January 15 and July 15.

$v^n = 1/(1 + i/2)n$ = present value of 1 due at the end of n periods

$a_{\overline{n}|} = (1 - v^n)/(i/2) = v + v^2 + v^3 + * * * + v^n$= present value of 1 per period for n periods

Date = valuation date

D = the number of days in the month in which Date falls

t = calendar day corresponding to Date

CPI = Consumer Price Index number

CPI_M = CPI reported for the calendar month M by the Bureau of Labor Statistics

Ref CPI_M = reference CPI for the first day of the calendar month in which Date falls, *e.g.,* Ref CPI_{April1} is the $CPI_{January}$

Ref CPI_{M+1} = reference CPI for the first day of the calendar month immediately following Date

Ref CPI_{Date} = Ref CPI_M + [(t − 1)/D][Ref CPI_{M+1} − Ref CPI_M]

Index Ratio_{Date} = Ref CPI_{Date}/Ref $CPI_{IssueDate}$

A. *For inflation-protected securities with a regular first interest payment period:*

Formulas:

$$P = \frac{(C/2) + (C/2)a_{\overline{n}|} + 100v^n}{1 + (r/s)(i/2)} - [(s-r)/s](C/2)$$

P_{adj} = P × $\text{Index Ratio}_{Date}$

A = [(s − r)/s] × (C/2)

A_{adj} = A × $\text{Index Ratio}_{Date}$

SA = $P_{adj} + A_{adj}$

Index Ratio_{Date} = Ref CPI_{Date}/Ref $CPI_{IssueDate}$

Example:

We issued a 10-year inflation-protected note on January 15, 1999. The note was issued at a discount to yield of 3.898% (real). The note bears a 3⅞% real coupon, payable on July 15 and January 15 of each year. The base CPI index applicable to this note is 164. (We normally derive this number using the interpolative process described in Appendix B, section I, paragraph B.)

Definitions:

C = 3.875

i = 0.03898

n = 19 (There are 20 full semiannual periods but n is reduced by 1 because the issue date is a coupon frequency date.)

r = 181 (January 15, 1999 to July 15, 1999)

s = 181 (January 15, 1999 to July 15, 1999)

Ref CPI_{Date} = 164

Ref $CPI_{IssueDate}$ = 164

Resolution:

$$\text{Index Ratio}_{Date} = \text{Ref CPI}_{Date}/\text{Ref CPI}_{IssueDate} = 164/164 = 1$$

$$A = [(181 - 181)/181] \times 3.875/2 = 0$$

$$A_{adj} = 0 \times 1 = 0$$

$$v^n = 1/(1 + i/2)^n = 1/(1 + .03898/2)^{19} = 0.69298457$$

$$a_{\overline{n}|} = (1-v^n)/(i/2) = (1-0.69298457)/(.03898/2) = 15.75245921$$

Formula:

$$P = \frac{(C/2) + (C/2)a_{\overline{n}|} + 100v^n}{1 + (r/s)(i/2)} - [(s-r)/s](C/2)$$

$$P = \frac{(3.875/2) + (3.875/2)(15.75245921) + 100(0.69298457)}{1 + (181/181)(0.03898/2)} - [(181-181)/181](3.875/2)$$

$$P = \frac{1.9375 + 30.52038972 + 69.298457}{1.01949000} - 0$$

$$P = \frac{101.75634672}{1.01949000}$$

P = 99.811030
P = 99.811
$P_{adj} = P \times \text{Index Ratio}_{Date}$
$P_{adj} = 99.811 \times 1 = 99.811$
$SA = P_{adj} + A_{adj}$
SA = 99.811 + 0 = 99.811

Note: For the real price (P), we have rounded to three places. These amounts are based on 100 par value.

B. (1) *For inflation-protected securities reopened during a regular interest period where the purchase price includes predetermined accrued interest.*

(2) *For new inflation-protected securities accruing interest from the coupon frequency date immediately preceding the issue date, with the interest rate established in the auction being used to determine the accrued interest payable on the issue date.*

Bidding: The dollar amount of each bid is in terms of the par amount. For example, if the Ref CPI applicable to the issue date of the note is 120, and the reference CPI applicable to the reopening issue date is 132, a bid of $10,000 will in effect be a bid of $10,000 × (132/120), or $11,000.

Formulas:

$$P = \frac{(C/2) + (C/2)a_{\overline{n}|} + 100v^n}{1 + (r/s)(i/2)} - [(s-r)/s](C/2)$$

$P_{adj} = P \times \text{Index Ratio}_{Date}$
$A = [(s - r)/s] \times (C/2)$
$A_{adj} = A \times \text{Index Ratio}_{Date}$
$SA = P_{adj} + A_{adj}$
$\text{Index Ratio}_{Date} = \text{Ref CPI}_{Date}/\text{Ref CPI}_{IssueDate}$

Example:

We issued a 3⅝% 10-year inflation-protected note on January 15, 1998, with interest payments on July 15 and January 15. For a reopening on October 15, 1998, with inflation compensation accruing from January 15, 1998 to October 15, 1998, and accrued interest accruing from July 15, 1998 to October 15, 1998 (92 days), solve for the price per 100 (P) at a real yield, as determined in the reopening auction, of 3.65%. The base index applicable to the issue date of this note is 161.55484 and the reference CPI applicable to October 15, 1998, is 163.29032.

Definitions:

C = 3.625
i = 0.0365
n = 18
r = 92 (October 15, 1998 to January 15, 1999)
s = 184 (July 15, 1998 to January 15, 1999)
Ref CPI_{Date} = 163.29032

Ref $CPI_{IssueDate}$ = 161.55484

Resolution:

$$\text{Index Ratio}_{Date} = \text{Ref CPI}_{Date}/\text{Ref CPI}_{IssueDate} = 163.29032/161.55484 = 1.01074$$

$$v^n = 1/(1 + i/2)^n = 1/(1 + .0365/2)^{18} = 0.72213844$$

$$a_{n\rceil} = (1-v^n)/(i/2) = (1-0.72213844)/(.0365/2) = 15.22529106$$

Formula:

$$P = \frac{(C/2) + (C/2)a_{n\rceil} + 100v^n}{1 + (r/s)(i/2)} - [(s-r)/s](C/2)$$

$$P = \frac{(3.625/2) + (3.625/2)(15.22529106) + 100(0.72213844)}{1 + (92/184)(0.0365/2)} - [(184-92)/184](3.625/2)$$

$$P = \frac{1.8125 + 27.59584005 + 72.213844}{1.009125} - (92/184)(1.8125)$$

$$P = \frac{101.62218405}{1.009125} - 0.906250$$

P = 100.703267 − 0.906250
P = 99.797017
P = 99.797
$P_{adj} = P \times \text{Index Ratio}_{Date}$
P_{adj} = 99.797 × 1.01074 = 100.8688
P_{adj} = 100.869
A = [(184 − 92)/184] × 3.625/2 = 0.906250
$A_{adj} = A \times \text{Index Ratio}_{Date}$
A_{adj} = 0.906250 x 1.01074 = 0.915983
SA = $P_{adj} + A_{adj}$ = 100.869 + 0.915983
SA = 101.784983

Note: For the real price (P), and the inflation-adjusted price (P_{adj}), we have rounded to three places. For accrued interest (A) and the adjusted accrued interest (A_{adj}), we have rounded to six places. These amounts are based on 100 par value.

IV. Computation of Adjusted Values and Payment Amounts for Stripped Inflation-Protected Interest Components

Note: Valuing an interest component stripped from an inflation-protected security at its adjusted value enables this interest component to be interchangeable (fungible) with other interest components that have the same maturity date, regardless of the underlying inflation-protected security from which the interest components were stripped. The adjusted value provides for fungibility of these various interest components when buying, selling, or transferring them or when reconstituting an inflation-protected security.

Definitions:

c = C/100 = the regular annual interest rate, payable semiannually, *e.g.*, .03625 (the decimal equivalent of a 3⅜% interest rate)
Par = par amount of the security to be stripped
Ref $CPI_{IssueDate}$ = reference CPI for the original issue date (or dated date, when the dated date is different from the original issue date) of the underlying (unstripped) security
Ref CPI_{Date} = reference CPI for the maturity date of the interest component
AV = adjusted value of the interest component
PA = payment amount at maturity by Treasury

Formulas:

$$AV = Par(C/2)(100/\text{Ref CPI}_{IssueDate}) \text{ (rounded to 2 decimals with no intermediate rounding)}$$

$$PA = AV(\text{Ref CPI}_{Date}/100) \text{ (rounded to 2 decimals with no intermediate rounding)}$$

Example:

A 10-year inflation-protected note paying 3⅞% interest was issued on January 15, 1999, with the second interest payment on January 15, 2000. The Ref CPI of January 15, 1999 (Ref $CPI_{IssueDate}$) was 164.00000, and the Ref CPI on January 15, 2000 (Ref CPI_{Date}) was 168.24516. Calculate the adjusted value and the payment amount at maturity of the interest component.

Definitions:

c = .03875
Par = $1,000,000
Ref $CPI_{IssueDate}$ = 164.00000
Ref CPI_{Date} = 168.24516

Resolution:

For a par amount of $1 million, the adjusted value of each stripped interest component

was $1,000,000(.03875/2)(100/164.00000), or $11,814.02 (no intermediate rounding).

For an interest component that matured on January 15, 2000, the payment amount was $11,814.02 (168.24516/100), or $19,876.52 (no intermediate rounding).

V. Computation of Purchase Price, Discount Rate, and Investment Rate (Coupon-Equivalent Yield) for Treasury Bills

A. Conversion of the discount rate to a purchase price for Treasury bills of all maturities:

Formula:

$$P = 100\,(1 - dr / 360)$$

Where:

d = discount rate, in decimals

r = number of days remaining to maturity

P = price per 100 (dollars)

Example:

For a bill issued November 24, 1989, due February 22, 1990, at a discount rate of 7.61%, solve for price per 100 (P).

Definitions:

d = .0761

r = 90 (November 24, 1989 to February 22, 1990)

Resolution:

$$P = 100\,(1 - dr / 360)$$

$$(1)\ P = 100\,[1 - (.0761)(90) / 360]$$

$$(2)\ P = 100\,(1 - .019025)$$

$$(3)\ P = 100\,(.980975)$$

$$(4)\ P = 98.0975$$

$$(5)\ P = 98.098$$

Note: Purchase prices per $100 are rounded to three decimal places, using normal rounding procedures.

B. *Computation of purchase prices and discount amounts based on price per $100, for Treasury bills of all maturities:*

1. To determine the purchase price of any bill, divide the par amount by 100 and multiply the resulting quotient by the price per $100.

Example:

To compute the purchase price of a $10,000 13-week bill sold at a price of $98.098 per $100, divide the par amount ($10,000) by 100 to obtain the multiple (100). That multiple times 98.098 results in a purchase price of $9,809.80.

2. To determine the discount amount for any bill, subtract the purchase price from the par amount of the bill.

Example:

For a $10,000 bill with a purchase price of $9,809.80, the discount amount would be $190.20, or $10,000—$9,809.80.

C. *Conversion of prices to discount rates for Treasury bills of all maturities:*

Formula:

$$d = \left[\frac{100-P}{100} \times \frac{360}{r}\right]$$

Where:

P = price per 100 (dollars)

d = discount rate

r = number of days remaining to maturity

Example:

For a 26-week bill issued December 30, 1982, due June 30, 1983, with a price of $95.930, solve for the discount rate (d).

Definitions:

P = 95.930

r = 182 (December 30, 1982, to June 30, 1983)

Resolution:

$$d = \left[\frac{100-P}{100} \times \frac{360}{r}\right]$$

$$(1)\ d = \left[\frac{100-95.930}{100} \times \frac{360}{182}\right]$$

$$(2)\ d = [.0407 \times 1.978022]$$

$$(3)\ d = .080506$$

$$(4)\ d = 8.051\%$$

Note: Prior to April 18, 1983, we sold all bills in price-basis auctions, in which discount rates calculated from prices were rounded to three places, using normal rounding procedures. Since that time, we have sold bills only on a discount rate basis. For regular Treasury bills—13-, 26-, and 52-week bills—discount rates bid were submitted with two decimals in increments of .01 percent, *e.g.*, 5.32, until 1997, when we instituted a change to three-decimal bidding in increments of .005 percent, *e.g.*, 5.320 or 5.325.

D. *Calculation of investment rate (coupon-equivalent yield) for Treasury bills:*

1. *For bills of not more than one half-year to maturity:*

Formula:

$$i = \left[\frac{100-P}{P} \times \frac{y}{r}\right]$$

Where:

i = investment rate, in decimals

P = price per 100 (dollars)

r = number of days remaining to maturity

y = number of days in year following the issue date; normally 365 but, if the year following the issue date includes February 29, then y is 366.

Example:

For a cash management bill issued June 1, 1990, due June 21, 1990, with a price of $99.559 (computed from a discount rate of 7.93%), solve for the investment rate (i).

Definitions:

P = 99.559

r = 20 (June 1, 1990, to June 21, 1990)

y = 365

Resolution:

$$i = \left[\frac{100-P}{P} \times \frac{y}{r}\right]$$

$$(1)\ i = \left[\frac{100-99.559}{99.559} \times \frac{365}{20}\right]$$

$$(2)\ i = [.004430 \times 18.25]$$

$$(3)\ i = .080848$$

$$(4)\ i = 8.08\%$$

2. For bills of more than one half-year to maturity:

Formula:

$$P\,[1 + (r - y/2)(i/y)]\,(1 + i/2) = 100$$

This formula must be solved by using the quadratic equation, which is:

$$ax^2 + bx + c = 0$$

Therefore, rewriting the bill formula in the quadratic equation form gives:

$$\left[\frac{r}{2y} - .25\right] i^2 + \left(\frac{r}{y}\right) i + \left(\frac{P-100}{P}\right) = 0$$

and solving for "i" produces:

$$i = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

Where:
i = investment rate in decimals
b = r/y
a = (r/2y) − .25
c = (P − 100)/P
P = price per 100 (dollars)
r = number of days remaining to maturity
y = number of days in year following the issue date; normally 365, but if the year following the issue date includes February 29, then y is 366.

Example:
For a 52-week bill issued June 7, 1990, due June 6, 1991, with a price of $92.265 (computed from a discount rate of 7.65%), solve for the investment rate (i).

Definitions:
r = 364 (June 7, 1990, to June 6, 1991)
y = 365
P = 92.265
b = 364 / 365, or .997260
a = (364 / 730) − .25, or .24863
c = (92.265 − 100) / 92.265, or −.083835

Resolution:

$$i = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

$$(1)\ i = \frac{-.997260 + \sqrt{(.997260)^2 - 4[(.24863)(-.083835)]}}{2(.248630)}$$

$$(2)\ i = \frac{-.997260 + \sqrt{.994528 + .083376}}{.497260}$$

$$(3)\ i = (-.997260 + 1.038222)/.497260$$

$$(4)\ i = .040962/.497260$$

$$(5)\ i = .082375 \text{ or}$$

$$(6)\ i = 8.24\%$$

Appendix C to Part 356—Investment Considerations

I. Inflation-Protected Securities

A. Principal and Interest Variability

An investment in securities with principal or interest determined by reference to an inflation index involves factors not associated with an investment in a fixed-principal security. Such factors include the possibility that:

- the inflation index may be subject to significant changes,
- changes in the index may or may not correlate to changes in interest rates generally or with changes in other indices,
- the resulting interest may be greater or less than that payable on other securities of similar maturities, and
- in the event of sustained deflation, the amount of the semiannual interest payments, the inflation-adjusted principal of the security, and the value of stripped components will decrease. However, if at maturity the inflation-adjusted principal is less than a security's par amount, we will pay an additional amount so that the additional amount plus the inflation-adjusted principal equals the par amount. Regardless of whether or not we pay such an additional amount, we

will always base interest payments on the inflation-adjusted principal as of the interest payment date. If a security has been stripped, we will pay any such additional amount at maturity to holders of principal components only. (*See* § 356.30)

B. Trading in the Secondary Market

The Treasury securities market is the largest and most liquid securities market in the world. The market for Treasury inflation-protected securities, however, may not be as active or liquid as the market for Treasury fixed-principal securities. In addition, Treasury inflation-protected securities may not be as widely traded or as well understood as Treasury fixed-principal securities. Lesser liquidity and fewer market participants may result in larger spreads between bid and asked prices for inflation-protected securities than the bid-asked spreads for fixed-principal securities with the same time to maturity. Larger bid-asked spreads normally result in higher transaction costs and/or lower overall returns. The liquidity of an inflation-protected security may be enhanced over time as we issue additional amounts or more entities participate in the market.

C. Tax Considerations

Treasury inflation-protected securities and the stripped interest and principal components of these securities are subject to specific tax rules provided by Treasury regulations issued under sections 1275(d) and 1286 of the Internal Revenue Code of 1986, as amended.

D. Indexing Issues

While the Consumer Price Index (''CPI'') measures changes in prices for goods and services, movements in the CPI that have occurred in the past do not necessarily indicate changes that may occur in the future.

The calculation of the index ratio incorporates an approximate three-month lag, which may have an impact on the trading price of the securities, particularly during periods of significant, rapid changes in the index.

The CPI is reported by the Bureau of Labor Statistics, a bureau within the Department of Labor. The Bureau of Labor Statistics operates independently of Treasury and, therefore, we have no control over the determination, calculation, or publication of the index. For a discussion of how we will apply the CPI in various situations, *see* Appendix B, Section I, Paragraph B. In addition, for a discussion of actions that we would take in the event the CPI is: discontinued; in the judgment of the Secretary, fundamentally altered in a manner materially adverse to the interests of an investor in the security; or, in the judgment of the Secretary, altered by legislation or Executive Order in a manner materially adverse to the interests of an investor in the security, *see* Appendix B, Section I, Paragraph B.4.

Appendix D to Part 356—Description of the Consumer Price Index

The Consumer Price Index (''CPI'') for purposes of inflation-protected securities is the non-seasonally adjusted *U.S. City Average All Items Consumer Price Index for All Urban Consumers*. It is published monthly by the Bureau of Labor Statistics (BLS), a bureau within the Department of Labor. The CPI is a measure of the average change in consumer prices over time in a fixed market basket of goods and services. This market basket includes food, clothing, shelter, fuels, transportation, charges for doctors' and dentists' services, and drugs.

In calculating the index, price changes for the various items are averaged together with weights that represent their importance in the spending of urban households in the United States. The BLS periodically updates the contents of the market basket of goods and services, and the weights assigned to the various items, to take into account changes in consumer expenditure patterns.

The CPI is expressed in relative terms in relation to a time base reference period for which the level is set at 100. For example, if the CPI for the 1982–84 reference period is 100.0, an increase of 16.5 percent from that period would be shown as 116.5. The CPI for a particular month is released and published during the following month. From time to time, the CPI is rebased to a more recent base reference period. We provide the base reference period for a particular inflation-protected security on the auction announcement for that security.

Further details about the CPI may be obtained by contacting the BLS.

Dated: December 9, 2003.

Donald V. Hammond,

Fiscal Assistant Secretary.

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