

Federal Reserve Policy on Payment System Risk

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INTRODUCTION

Payment and settlement systems are critical components of the nation's financial system. The smooth functioning of these systems is vital to the financial stability of the U.S. economy. Given the importance of these systems, the Board has developed this policy to address the risks that payment and settlement activity present to the financial system and to the Federal Reserve Banks (Reserve Banks).

In adopting this policy, the Board's objectives are to foster the safety and efficiency of payment and settlement systems. These policy objectives are consistent with (1) the Board's long-standing objectives to promote the integrity, efficiency, and accessibility of the payment system; (2) industry and supervisory methods for risk management; and (3) internationally accepted risk-management principles and minimum standards for systemically important payment and settlement systems.¹

Part I of this policy sets out the Board's views, and related principles and minimum standards, regarding the management of risks in payment and settlement systems, including those operated by the Reserve Banks. In setting out its views, the Board seeks to encourage payment and settlement systems, and their primary regulators, to take the principles and minimum standards in this policy into consideration in the design, operation, monitoring, and assessing of these systems. The Board also will be guided by this part, in conjunction with relevant laws and other Federal Reserve policies, when exercising its authority over certain systems or their participants, when providing payment and settlement services to systems, or when providing intraday credit to Federal Reserve account holders.

Part II of this policy governs the provision of intraday credit or "daylight overdrafts" in accounts at the Reserve Banks and sets out the general methods used by the Reserve Banks to control their intraday credit exposures.² Under this part, the Board explicitly recognizes that the Federal Reserve has an important role in providing intraday balances and credit to foster the smooth operation of the payment system. The Reserve Banks provide intraday balances by way of supplying temporary, intraday credit to healthy depository institutions,

¹ For the Board's long-standing objectives in the payment system, see "The Federal Reserve in the Payments System," September 2001, FRRS 9-1550, available at http://www.federalreserve.gov/paymentsystems/pfs_frpsys.htm.

² To assist depository institutions in implementing this part of the Board's payment system risk policy, the Federal Reserve has prepared two documents, the [Overview of the Federal Reserve's Payment System Risk Policy](#) and the [Guide to the Federal Reserve's Payment System Risk Policy](#), which are available on line at http://www.federalreserve.gov/paymentsystems/psr_relpolicies.htm. The [Overview of the Federal Reserve's Payment System Risk Policy](#) summarizes the Board's policy on the provision of intraday credit, including net debit caps and daylight overdraft fees. The overview is intended for use by institutions that incur only small amounts of daylight overdrafts. The [Guide to the Federal Reserve's Payment System Risk Policy](#) explains in detail how these policies apply to different institutions and includes procedures for completing a self-assessment and filing a cap resolution, as well as information on other aspects of the policy.

predominantly through collateralized intraday overdrafts.³ The Board believes that such a strategy enhances intraday liquidity, while controlling risk to the Reserve Banks. Over time, the Board aims to reduce the reliance of the banking industry on uncollateralized intraday credit by providing incentives to collateralize daylight overdrafts. The Board also aims to limit the burden of the policy on healthy depository institutions that use small amounts of intraday credit.

Through this policy, the Board expects financial system participants, including the Reserve Banks, to reduce and control settlement and systemic risks arising in payment and settlement systems, consistent with the smooth operation of the financial system. This policy is designed to provide intraday balances and credit while controlling the Reserve Bank risk by (1) making financial system participants and system operators aware of the types of basic risks that arise in the settlement process and the Board's expectations with regard to risk management, (2) setting explicit risk-management expectations for systemically important systems, and (3) establishing the policy conditions governing the provision of Federal Reserve intraday credit to account holders. The Board's adoption of this policy in no way diminishes the primary responsibilities of financial system participants generally and settlement system operators, participants, and Federal Reserve account holders more specifically, to address the risks that may arise through their operation of, or participation in, payment and settlement systems.

RISKS IN PAYMENT AND SETTLEMENT SYSTEMS

The basic risks in payment and settlement systems are credit risk, liquidity risk, operational risk, and legal risk. In the context of this policy, these risks are defined as follows.⁴

Credit Risk. The risk that a counterparty will not settle an obligation for full value either when due, or anytime thereafter.

Liquidity Risk. The risk that a counterparty will not settle an obligation for full value when due.

Operational Risk. The risk of loss resulting from inadequate or failed internal processes, people, and systems, or from external events. This type of risk includes various physical and information security risks.

Legal Risk. The risk of loss because of the unexpected application of a law or regulation or because a contract cannot be enforced.

These risks arise between financial institutions as they settle payments and other financial transactions and must be managed by institutions, both individually and

³ The term "depository institution," as used in this policy, refers not only to institutions defined as depository institutions" in 12 U.S.C. 461(b)(1)(A), but also to U.S. branches and agencies of foreign banking organizations, Edge and agreement corporations, trust companies, and bankers' banks, unless the context indicates a different reading.

⁴ These definitions of credit risk, liquidity risk, and legal risk are based upon those presented in the Core Principles for Systemically Important Payment Systems (Core Principles) and the Recommendations for Securities Settlement Systems (Recommendations for SSS). The definition of operational risk is based on the Basel Committee on Banking Supervision's "Sound Practices for the Management and Supervision of Operational Risk," available at <http://www.bis.org/publ/bcbs96.htm>. Each of these definitions is largely consistent with those included in the Recommendations for Central Counterparties (Recommendations for CCP).

collectively.⁵

Multilateral payment and settlement systems, in particular, may increase, shift, concentrate, or otherwise transform risks in unanticipated ways. These systems also may pose systemic risk to the financial system where the inability of a system participant to meet its obligations when due may cause other participants to be unable to meet their obligations when due. The failure of one or more participants to settle their payments or other financial transactions, in turn, could create credit or liquidity problems for other participants, the system operator, or depository institutions. Systemic risk might lead ultimately to a disruption in the financial system more broadly or undermine public confidence in the nation's financial infrastructure.

These risks stem, in part, from the multilateral and time-sensitive credit and liquidity interdependencies among financial institutions. These interdependencies often create complex transaction flows that, in combination with a system's design, can lead to significant demands for intraday credit, either on a regular or extraordinary basis. The Board explicitly recognizes that the Federal Reserve has an important role in providing intraday balances and credit to foster the smooth operation of the payment system. To the extent that financial institutions or the Reserve Banks are the direct or indirect source of intraday credit, they may face a direct risk of loss if daylight overdrafts are not extinguished as planned. In addition, measures taken by Reserve Banks to limit their intraday credit exposures may shift some or all of the associated risks to private-sector systems.

The smooth functioning of payment and settlement systems is also critical to certain public policy objectives in the areas of monetary policy and banking supervision. The effective implementation of monetary policy, for example, depends on both the orderly settlement of open market operations and the efficient distribution of reserve balances throughout the banking system via the money market and payment system. Likewise, supervisory objectives regarding the safety and soundness of depository institutions must take into account the risks payment and settlement systems pose to depository institutions that participate directly or indirectly in, or provide settlement, custody, or credit services to, such systems.

I. RISK MANAGEMENT IN PAYMENT AND SETTLEMENT SYSTEMS

This part sets out the Board's views regarding the management of risk in payment and settlement systems, including those operated by the Reserve Banks. The Board will be guided by this part, in conjunction with relevant laws and other Federal Reserve policies, when exercising its authority in (1) supervising state member banks, Edge and agreement corporations, bank holding companies, and clearinghouse arrangements, including the exercise of authority under the Bank Service Company Act, where applicable,⁶ (2) setting or reviewing the terms and conditions for the use of Federal Reserve payment and settlement

⁵ The term "financial institution," as used in this policy, includes a broad array of types of organizations that engage in financial activity, including depository institutions and securities dealers.

Several existing regulatory and bank supervision guidelines and policies also are directed at institutions' management of the risks posed by interbank payment and settlement activity. For example, Federal Reserve Regulation F (12 CFR 206) directs insured depository institutions to establish policies and procedures to avoid excessive exposures to any other depository institutions, including exposures that may be generated through the clearing and settlement of payments.

⁶ 12 U.S.C. 1861 *et seq.*

services by system operators and participants, (3) developing and applying policies for the provision of intraday liquidity to Reserve Bank account holders, and (4) interacting with other domestic and foreign financial system authorities on payment and settlement risk-management issues. The Board's adoption of this policy is not intended to exert or create new supervisory or regulatory authority over any particular class of institutions or arrangements where the Board does not currently have such authority.

Where the Board does not have exclusive authority over systems covered by this policy, it will work with other domestic and foreign financial system authorities to promote effective risk management in payment and settlement systems, as appropriate. The Board encourages other relevant authorities to consider the principles and minimum standards embodied in this policy when evaluating the risks posed by and to payment and settlement systems and individual system participants that they oversee, supervise, or regulate. In working with other financial system authorities, the Board will be guided, as appropriate, by Responsibility D of the Core Principles, Recommendation 18 of the Recommendations for SSS, Recommendation 15 of the Recommendations for CCP, the "Principles for Cooperative Central Bank Oversight of Cross-border and Multi-currency Netting and Settlement Schemes," and the Principles for International Cooperative Oversight (Part B) of the Committee on Payment and Settlement Systems (CPSS) report, "Central Bank Oversight of Payment and Settlement Systems."⁷ The Board believes these international principles provide an appropriate framework for cooperating and coordinating with other authorities to address risks in domestic, cross-border, multi-currency, and, where appropriate, offshore payment and settlement systems.

A. Scope

This policy applies to public- and private-sector payment and settlement systems that expect to settle a daily aggregate gross value of U.S. dollar-denominated transactions exceeding \$5 billion on any day during the next 12 months.⁸ For purposes of this policy, a payment or settlement system is considered to be a multilateral arrangement (three or more

⁷ Payment and settlement systems within the scope of this policy may be subject to oversight or supervision by multiple public authorities, as a result of the legal framework or the system's operating structure (e.g., multi-currency or cross-border systems). As such, the Federal Reserve, other central banks, securities regulators, or other financial system authorities may need to find practical ways to cooperate in order to discharge fully their own responsibilities. In some cases, multiple authorities may have responsibility for a multi-currency, cross-border, or other arrangement. In these situations, financial authorities need to be sensitive to the potential for duplicative or conflicting requirements, oversight gaps, or unnecessary costs and burdens imposed on the system. The "Principles for Cooperative Central Bank Oversight and Multi-currency Netting and Settlement Schemes," published in 1990, are set out in the "[Report of the Committee on Interbank Netting Schemes of the Central Banks of the Group of Ten Countries](#)" (Lamfalussy Minimum Standards). The CPSS report, "Central Bank Oversight of Payment and Settlement Systems" (Oversight Report), Part B, "Principles for international cooperative oversight," published in 2005, provides further information on the practical application of the Lamfalussy Cooperative Oversight Principles. The Lamfalussy Minimum Standards and the Oversight Report are available at <http://www.bis.org/cpss/cpsspubl.htm>.

⁸ The \$5 billion threshold was designed to apply to cash markets and may not be a useful benchmark for settlement systems, such as central counterparties, operating in derivatives markets. The appropriate financial system authorities in derivatives markets may therefore have different benchmarks and standards relevant to such systems.

The 'next' twelve-month period is determined by reference to the date a determination is being made as to whether the policy applies to a particular system. Aggregate gross value of U.S. dollar-denominated transactions refers to the total dollar value of individual U.S. dollar transactions settled in the system, which also represents the sum of total U.S. dollar debits (or credits) to all participants prior to or in absence of any netting of transactions.

participants) among financial institutions for the purposes of clearing, netting, and/or settling payments, securities, or other financial transactions among themselves or between each of them and a central party, such as a system operator or central counterparty.⁹ A system generally embodies one or more of the following characteristics: (1) a set of rules and procedures, common to all participants, that govern the clearing (comparison and/or netting) and settlement of payments, securities, or other financial transactions, (2) a common technical infrastructure for conducting the clearing or settlement process, and (3) a risk-management or capital structure where any credit losses are ultimately borne by system participants rather than the system operator, a central counterparty or guarantor, or the system's shareholders.

These systems may be organized, located, or operated within the United States (domestic systems), outside the United States (offshore systems), or both (cross-border systems) and may involve other currencies in addition to the U.S. dollar (multi-currency systems). The policy also applies to any system based or operated in the United States that engages in the settlement of non-U.S. dollar transactions if that system would be otherwise subject to the policy.¹⁰

This policy does not apply to bilateral relationships between financial institutions and their customers, such as traditional correspondent banking, including traditional government securities clearing services. The Board believes that these relationships do not constitute "a system" for purposes of this policy and that relevant safety and soundness issues associated with these relationships are more appropriately addressed through the bank supervisory process.

B. General Policy Expectations

The Board encourages payment and settlement systems within the scope of this policy and expects systems subject to its authority to implement a risk-management framework appropriate for the risks the system poses to the system operator, system participants, and other relevant parties as well as the financial system more broadly. A risk-management framework is the set of objectives, policies, arrangements, procedures, and resources that a system employs to limit and manage risk. While there are a number of ways to structure a sound risk-management framework, all frameworks should

- clearly identify risks and set sound risk-management objectives;

⁹ A system includes all of the governance, management, legal, and operational arrangements used to effect settlement as well as the relevant parties to such arrangements, such as the system operator, system participants, and system owners.

The types of systems that may fall within the scope of this policy include, but are not limited to, large-value funds transfer systems, automated clearinghouse (ACH) systems, check clearinghouses, and credit and debit card settlement systems, as well as central counterparties, clearing corporations, and central securities depositories. For purposes of this policy, the system operator manages or directs the operations of the system.

For the purposes of this policy, a "settlement system" includes a payment-versus-payment settlement system for foreign exchange transactions, a securities settlement system, and a system operating as a central counterparty. The CPSS defines "payment-versus-payment" as "...a foreign exchange settlement system which ensures that a final transfer of one currency occurs if and only if a final transfer of the other currency or currencies takes place." The CPSS and the Technical Committee of the International Organization of Securities Commissions (IOSCO) define a "securities settlement system" as the full set of institutional arrangements for confirmation, clearance, and settlement of securities trades and safekeeping of securities and a "central counterparty" as an entity that interposes itself between counterparties to contracts traded in one or more financial markets, becoming the buyer to every seller and the seller to every buyer.

¹⁰ The daily gross value threshold will be calculated on a U.S. dollar equivalent basis.

- establish sound governance arrangements;
- establish clear and appropriate rules and procedures; and
- employ the resources necessary to achieve the system’s risk-management objectives and implement effectively its rules and procedures.

In addition to establishing a risk-management framework that includes these key elements, the Board expects systems subject to its authority that it determines are systemically important to meet the policy expectations set out in Section C (Core Principles, Recommendations for SSS, or Recommendations for CCP, as applicable).

Identify Risks and Set Sound Risk-Management Objectives. The first element of a sound risk-management framework is the clear identification of all risks that have the potential to arise in or result from the system’s settlement process and the development of clear and transparent objectives regarding the system’s tolerance for and management of such risks.

System operators should identify the forms of risk present in their system’s settlement process as well as the parties posing and bearing each risk. In particular, system operators should identify the risks posed to and borne by themselves, the system participants, and other key parties such as a system’s settlement banks, custody banks, and third-party service providers. System operators should also analyze whether risks might be imposed on other external parties and the financial system more broadly.

In addition, system operators should analyze how risk is transformed or concentrated by the settlement process. System operators should also consider the possibility that attempts to limit one type of risk could lead to an increase in another type of risk. Moreover, system operators should be aware of risks that might be unique to certain instruments, participants, or market practices. System operators should also analyze how risks are correlated among instruments or participants.¹¹

Based upon its clear identification of risks, a system should establish its risk tolerance, including the levels of risk exposure that are acceptable to the system operator, system participants, and other relevant parties. The system operator should then set risk-management objectives that clearly allocate acceptable risks among the relevant parties and set out strategies to manage this risk. Risk-management objectives should be consistent with the objectives of this policy, the system’s business purposes, and the type of instruments and markets for which the system clears and settles. Risk-management objectives should also be communicated to and understood by both the system operator’s staff and system participants.

System operators should reevaluate their risks in conjunction with any major changes in the settlement process or operations, the instruments or transactions settled, a system’s rules or procedures, or the relevant legal and market environments. Systems should revisit their risk-management objectives regularly to ensure that they are appropriate for the risks posed by the system, continue to be aligned with the system’s purposes, remain consistent with this policy, and are being effectively adhered to by the system operator and participants.

Sound Governance Arrangements. Systems should have sound governance arrangements to implement and oversee their risk-management frameworks. The

¹¹ Where systems have inter-relationships with or dependencies on other systems (e.g., cross-guarantees, cross-collateralization, cross-margining, common operating platforms), system operators should also analyze whether and to what extent any cross-system risks exist and who bears them.

responsibility for sound governance rests with a system operator's board of directors or similar body and with the system operator's senior management. Governance structures and processes should be transparent; enable the establishment of clear risk-management objectives; set and enforce clear lines of responsibility and accountability for achieving these objectives; ensure that there is appropriate oversight of the risk-management process; and enable the effective use of information reported by the system operator's management, internal auditors, and external auditors to monitor the performance of the risk-management process.¹² Individuals responsible for governance should be qualified for their positions, understand their responsibilities, and understand their system's risk-management framework. Governance arrangements should also ensure that risk-management information is shared in forms, and at times, that allow individuals responsible for governance to fulfill their duties effectively.

Clear and Appropriate Rules and Procedures. Systems should implement rules and procedures that are appropriate and sufficient to carry out the system's risk-management objectives and that have a well-founded legal basis. Such rules and procedures should specify the respective responsibilities of the system operator, system participants, and other relevant parties. Rules and procedures should establish the key features of a system's settlement and risk-management design and specify clear and transparent crisis management procedures and settlement failure procedures, if applicable.¹³

Employ Necessary Resources. Systems should ensure that the appropriate resources and processes are in place to allow them to achieve their risk-management objectives and effectively implement their rules and procedures. In particular, the system operator's staff should have the appropriate skills, information, and tools to apply the system's rules and procedures and achieve the system's risk-management objectives. System operators should also ensure that their facilities and contingency arrangements, including any information system resources, are sufficient to meet their risk-management objectives.

The Board recognizes that payment and settlement systems differ widely in terms of form, function, scale, and scope of activities and that these characteristics result in differing combinations and levels of risks. Thus, the exact features of a system's risk-management framework should be tailored to the risks of that system. The Board also recognizes that the specific features of a risk-management framework may entail trade-offs between efficiency and risk reduction and that payment and settlement systems will need to consider these trade-offs when designing appropriate rules and procedures. In considering such trade-offs, however, it is critically important that systems take into account the costs and risks that may be imposed on all relevant parties, including parties with no direct role in the system. Furthermore, in light of rapidly evolving technologies and risk-management practices, the Board encourages all systems to consider periodically making cost-effective risk-management improvements.

¹² The risk management and internal audit functions should also be independent of those responsible for day-to-day functions.

¹³ Examples of key features that might be specified in a system's rules and procedures are controls to limit participant-based risks, such as membership criteria based on participants' financial and operational health, limits on settlement exposures, and the procedures and resources to hedge, margin, or collateralize settlement exposures. Other examples of key features might be business continuity requirements and loss allocation procedures.

To determine whether a system's current or proposed risk-management framework is consistent with this policy, the Board will seek to understand how a system achieves the four elements of a sound risk-management framework set out above. In this context, it may be necessary for the Board to obtain information from system operators regarding their risk-management framework, risk-management objectives, rules and procedures, significant legal analyses, general risk analyses, analyses of the credit and liquidity effects of settlement disruptions, business continuity plans, crisis management procedures, and other relevant documentation.¹⁴ It may also be necessary for the Board to obtain data or statistics on system activity on an ad-hoc or ongoing basis. All information provided to the Federal Reserve for the purposes of this policy will be handled in accordance with all applicable Federal Reserve policies on information security, confidentiality, and conflicts of interest.

C. Systemically Important Systems

Financial stability depends, in part, on a robust and well-managed financial infrastructure. If risks are not effectively managed by systemically important systems, these systems have the potential to be a major channel for the transmission of financial shocks across systems and markets. Financial system authorities, including central banks, have promoted sound risk-management practices by developing internationally accepted guidelines to encourage the safe design and operation of payment and settlement systems, especially those considered systemically important.

In particular, the Core Principles, Recommendations for SSS, and Recommendations for CCP (the latter two collectively referred to as the CPSS-IOSCO Recommendations) set forth risk-management practices for payment systems, securities settlement systems, and central counterparties, respectively.¹⁵ The Federal Reserve collaborated with participating financial system authorities in developing these principles and minimum standards. In addition, the Securities and Exchange Commission and Commodity Futures Trading Commission participated in the development of the CPSS-IOSCO Recommendations. The principles and minimum standards reflect broad input and provide a balanced view of acceptable risk-management practices. The Core Principles and Recommendations for SSS are also part of the Financial Stability Forum's Compendium of Standards that have been widely recognized, supported, and endorsed by U.S. authorities as integral to strengthening the stability of the financial system. The Board believes that the implementation of the individual principles and minimum standards by systemically important systems can help promote safety and efficiency in the financial system and foster greater financial stability in

¹⁴ To facilitate analysis of settlement disruptions, systems may need to develop the capability to simulate credit and liquidity effects on participants and on the system resulting from one or more participant defaults, or other possible sources of settlement disruption. Such simulations may need to include, if appropriate, the effects of changes in market prices, volatilities, or other factors.

¹⁵ The Core Principles were developed by the CPSS; references to "principles" in this policy are to the Core Principles. The Core Principles draw extensively on the previous work of the CPSS, most importantly the Lamfalussy Minimum Standards. The Core Principles extend the Lamfalussy Minimum Standards by adding several principles and broadening the coverage to include systemically important payment systems of all types, including gross settlement systems, net settlement systems, and hybrid systems, operated by either the public or private sector. The Core Principles also address the responsibilities of central banks in applying the Core Principles.

The CPSS and IOSCO developed the CPSS-IOSCO Recommendations as minimum standards and are referred to as such in this policy. The full reports on the Core Principles and the CPSS-IOSCO Recommendations are available at <http://www.bis.org/publ/cpss43.htm>, <http://www.bis.org/publ/cpss46.htm>, and <http://www.bis.org/publ/cpss64.htm>.

domestic and global economies.

Systemically important systems that are subject to the Board’s authority are expected to meet the specific risk-management principles and minimum standards in this section, as appropriate, and the general expectations of Section B because of their potential to cause major disruptions in the financial system.¹⁶ To determine whether a system is systemically important for purposes of this policy, the Board may consider, but will not be limited to, one or more of the following factors:¹⁷

- Whether the system has the potential to create significant liquidity disruptions or dislocations should it fail to perform or settle as expected;
- Whether the system has the potential to create large credit or liquidity exposures relative to participants’ financial capacity;
- Whether the system settles a high proportion of large-value or interbank transactions;
- Whether the system settles transactions for important financial markets;¹⁸
- Whether the system provides settlement for other systems; and
- Whether the system is the only system or one of a very few systems for settlement of a given financial instrument.

Some systemically important systems, however, may present an especially high degree of systemic risk, by virtue of their high volume of large-value transactions or central role in the financial markets. Because all systems are expected to employ a risk-management framework that is appropriate for their risks, the Board may expect these systems to exceed the principles and minimum standards set out below. Finally, the Board expects systemically important systems to demonstrate the extent to which they meet the applicable principles or minimum standards by completing self-assessments and disclosing publicly the results of their analyses in a manner consistent with the guidelines set forth in Section C.3.

1. Principles for systemically important payment systems

- a. The system should have a well-founded legal basis under all relevant jurisdictions.
- b. The system’s rules and procedures should enable participants to have a clear understanding of the system’s impact on each of the financial risks they incur through participation in it.

¹⁶ Systemically important payment systems are expected to meet the principles listed in Section C.1. Securities settlement systems of systemic importance are expected to meet the minimum standards listed in Section C.2.a., and systemically important central counterparties are expected to meet the minimum standards listed in C.2.b. For a system not subject to its authority, the Board encourages the system and its appropriate financial system authority to consider these principles and minimum standards when designing, operating, monitoring, and assessing the system, as appropriate and applicable.

¹⁷ The Board will inform a system subject to its authority if it considers it systemically important and therefore expected to meet the principles or minimum standards in this policy. The Board will also inform such systems if they are expected to exceed any of the principles or minimum standards. The appropriate financial system authorities responsible for supervising or regulating central counterparties are encouraged to inform the central counterparties as to whether they are expected to meet the Recommendations for CCP.

¹⁸ Important financial markets include, but are not limited to, critical markets as defined in the “Interagency Paper on Sound Practices to Strengthen the Resilience of the U.S. Financial System” as the markets for federal funds, foreign exchange, and commercial paper; U.S. government and agency securities; and corporate debt and equity securities. 68 FR 17809 (April 11, 2003).

- c. The system should have clearly defined procedures for the management of credit risks and liquidity risks, which specify the respective responsibilities of the system operator and the participants and which provide appropriate incentives to manage and contain those risks.
- d. The system should provide prompt final settlement on the day of value, preferably during the day and at a minimum at the end of the day.
- e. A system in which multilateral netting takes place should, at a minimum, be capable of ensuring the timely completion of daily settlements in the event of an inability to settle by the participant with the largest single settlement obligation.
- f. Assets used for settlement should preferably be a claim on the central bank; where other assets are used, they should carry little or no credit risk and little or no liquidity risk.
- g. The system should ensure a high degree of security and operational reliability and should have contingency arrangements for timely completion of daily processing.
- h. The system should provide a means of making payments which is practical for its users and efficient for the economy.
- i. The system should have objective and publicly disclosed criteria for participation, which permit fair and open access.
- j. The system's governance arrangements should be effective, accountable and transparent.

2. Minimum standards for systemically important securities settlement systems and central counterparties

The CPSS-IOSCO Recommendations apply to the full set of institutional arrangements for confirmation, clearance, and settlement of securities transactions, including those related to market convention and pre-settlement activities. As such, not all of these standards apply to all systems. Moreover, the standards applicable to a particular system also will vary based on the structure of the market and the system's design.

While the Board endorses the CPSS-IOSCO Recommendations in their entirety, its primary interest for purposes of this policy is in those recommendations related to the settlement aspects of financial transactions, including the delivery of securities or other financial instruments against payment, and related risks. The Board expects that systems engaged in the management or conduct of clearing and settling financial transactions to meet the expectations set forth in the applicable set of CPSS-IOSCO Recommendations.

a. Recommendations for securities settlement systems

- i. Securities settlement systems should have a well-founded, clear and transparent legal basis in the relevant jurisdictions.
- ii. Confirmation of trades between direct market participants should occur as soon as possible after trade execution, but no later than the trade date (T+0). Where confirmation of trades by indirect market participants (such as institutional investors) is required, it should occur as soon as possible after the trade execution, preferably on T+0, but no later than T+1.

- iii. Rolling settlement should be adopted in all securities markets. Final settlement should occur no later than T+3. The benefits and costs of a settlement cycle shorter than T+3 should be evaluated.
- iv. The benefits and costs of a central counterparty should be evaluated. Where such a mechanism is introduced, the central counterparty should rigorously control the risks it assumes.
- v. Securities lending and borrowing (or repurchase agreements and other economically equivalent transactions) should be encouraged as a method for expediting the settlement of securities transactions. Barriers that inhibit the practice of lending securities for this purpose should be removed.
- vi. Securities should be immobilized or dematerialized and transferred by book entry in a central securities depository to the greatest extent possible.
- vii. Central securities depositories should eliminate principal risk by linking securities transfers to funds transfers in a way that achieves delivery versus payment.
- viii. Final settlement should occur no later than the end of the settlement day. Intraday or real time finality should be provided where necessary to reduce risks.
- ix. Central securities depositories that extend intraday credit to participants, including central securities depositories that operate net settlement systems, should institute risk controls that, at a minimum, ensure timely settlement in the event that the participant with the largest payment obligation is unable to settle. The most reliable set of controls is a combination of collateral requirements and limits.
- x. Assets used to settle the ultimate payment obligations arising from securities transactions should carry little or no credit or liquidity risk. If central bank money is not used, steps must be taken to protect central securities depository members from potential losses and liquidity pressures arising from the failure of the cash settlement agent whose assets are used for that purpose.
- xi. Sources of operational risk arising in the clearing and settlement process should be identified and minimized through the development of appropriate systems, controls and procedures. Systems should be reliable and secure, and have adequate, scalable capacity. Contingency plans and backup facilities should be established to allow for the timely recovery of operations and completion of the settlement process.
- xii. Entities holding securities in custody should employ accounting practices and safekeeping procedures that fully protect customers' securities. It is essential that customers' securities be protected against the claims of a custodian's creditors.
- xiii. Governance arrangements for central securities depositories and central counterparties should be designed to fulfill public interest requirements and to promote the objectives of owners and users.
- xiv. Central securities depositories and central counterparties should have objective and publicly disclosed criteria for participation that permit fair and open access.
- xv. While maintaining safe and secure operations, securities settlement systems should be cost-effective in meeting the requirements of users.

- xvi. Securities settlement systems should use or accommodate the relevant international communication procedures and standards in order to facilitate efficient settlement of cross-border transactions.
- xvii. Central securities depositories and central counterparties should provide market participants with sufficient information for them to identify and evaluate accurately the risks and costs associated with using the central securities depository or central counterparty services.
- xviii. Securities settlement systems should be subject to transparent and effective regulation and oversight. Central banks and securities regulators should cooperate with each other and with other relevant authorities.
- xix. Central securities depositories that establish links to settle cross-border trades should design and operate such links to reduce effectively the risks associated with cross-border settlement.

b. Recommendations for Central Counterparties

- i. A central counterparty should have a well-founded, transparent, and enforceable legal framework for each aspect of its activities in all relevant jurisdictions.
- ii. A central counterparty should require participants to have sufficient financial resources and robust operational capacity to meet obligations arising from participation in the central counterparty. A central counterparty should have procedures in place to monitor that participation requirements are met on an ongoing basis. A central counterparty's participation requirements should be objective, publicly disclosed, and permit fair and open access.
- iii. A central counterparty should measure its credit exposures to its participants at least once a day. Through margin requirements, other risk control mechanisms, or a combination of both, a central counterparty should limit its exposures to potential losses from defaults by its participants in normal market conditions so that the operations of the central counterparty would not be disrupted and non-defaulting participants would not be exposed to losses that they cannot anticipate or control.
- iv. If a central counterparty relies on margin requirements to limit its credit exposures to participants, those requirements should be sufficient to cover potential exposures in normal market conditions. The models and parameters used in setting margin requirements should be risk-based and reviewed regularly.
- v. A central counterparty should maintain sufficient financial resources to withstand, at a minimum, a default by the participant to which it has the largest exposure in extreme but plausible market conditions.
- vi. A central counterparty's default procedures should be clearly stated, and they should ensure that the central counterparty can take timely action to contain losses and liquidity pressures and to continue meeting its obligations. Key aspects of the default procedures should be publicly available.
- vii. A central counterparty should hold assets in a manner whereby risk of loss or of delay in its access to them is minimized. Assets invested by a central counterparty should be held in instruments with minimal credit, market, and liquidity risks.

- viii. A central counterparty should identify sources of operational risk and minimize them through the development of appropriate systems, controls, and procedures. Systems should be reliable and secure, and have adequate, scalable capacity. Business continuity plans should allow for timely recovery of operations and fulfillment of a central counterparty's obligations.
- ix. A central counterparty should employ money settlement arrangements that eliminate or strictly limit its settlement bank risks, that is, its credit and liquidity risks from the use of banks to effect money settlements with its participants. Funds transfers to a central counterparty should be final when effected.
- x. A central counterparty should clearly state its obligations with respect to physical deliveries. The risks from these obligations should be identified and managed.
- xi. Central counterparties that establish links either cross-border or domestically to clear trades should evaluate the potential sources of risks that can arise, and ensure that the risks are managed prudently on an ongoing basis. There should be a framework for cooperation and coordination between the relevant regulators and overseers.
- xii. While maintaining safe and secure operations, central counterparties should be cost-effective in meeting the requirements of participants.
- xiii. Governance arrangements for a central counterparty should be clear and transparent to fulfill public interest requirements and to support the objectives of owners and participants. In particular, they should promote the effectiveness of a central counterparty's risk-management procedures.
- xiv. A central counterparty should provide market participants with sufficient information for them to identify and evaluate accurately the risks and costs associated with using its services.
- xv. A central counterparty should be subject to transparent and effective regulation and oversight. In both a domestic and an international context, central banks and securities regulators should cooperate with each other and with other relevant authorities.

3. Self-assessments by systemically important systems

Users and others outside the user community (such as prospective users or other public authorities) commonly are interested in understanding how systemically important payment and settlement systems function in order to manage their risks. At this time, different disclosure practices and requirements for payment and settlement systems have resulted in varying levels of information being disseminated to users and others. Users and other persons may find it difficult to obtain access to sufficient information to understand and assess a particular system's approach to risk-management against internationally accepted principles and minimum standards. Broadening the availability of information concerning a system's risk-management controls, governance, and legal framework, for example, can facilitate this understanding and analysis and also assist those interested in a system in evaluating and managing any risk exposure.¹⁹

¹⁹ The Board considers self-assessments as only one resource for users and other persons to consider when evaluating any risks associated with a particular system. In order to effectively identify and manage risks, a user or other interested

The Board believes that the implementation of the applicable principles and minimum standards by systemically important systems can foster greater financial stability in payment and settlement systems. The Board further believes that operators of systemically important systems are well positioned to assess and demonstrate the extent to which they have implemented the principles or minimum standards in this policy. Therefore, in furtherance of its policy objectives, the Board expects systemically important systems subject to its authority to complete comprehensive, objective self-assessments against the applicable principles or minimum standards in this policy and disclose publicly the results of these efforts. Adopting this self-assessment framework, however, does not preclude the Federal Reserve from independently assessing compliance of systemically important systems with relevant rules, regulations, and Federal Reserve policies.

The Board expects systemically important systems subject to its authority to complete self-assessments based on the following guidelines. First, systemically important systems are expected to document the basis for their self-assessment and support any conclusions regarding the extent to which they meet a particular principle or minimum standard.²⁰ System operators should use one of the following assessment categories to describe the extent to which the system meets a particular principle or minimum standard: observed, broadly observed, partly observed, or non-observed. The CPSS and CPSS-IOSCO have developed implementation guidelines and assessment methodologies that can assist system operators in structuring their self-assessments and assigning an assessment category. Accordingly, payment system operators are encouraged to consult Section 7 of the Core Principles for guidance when developing their self-assessments and in measuring the extent to which the system meets each principle.²¹ Likewise system operators for securities settlement systems and central counterparties are encouraged to consult the assessment methodology for the relevant minimum standards for further guidance on each minimum standard and are encouraged to respond to the key questions included therein.²² A system may consult the Board for assistance with respect to the principles and minimum standards and the completion of its assessment. Second, to further ensure system accountability for accuracy and completeness, the Board expects the system's senior management and board of directors to review and approve self-assessments upon completion. Third, to achieve broad disclosure, the system is expected to make its self-assessments readily available to the public, such as by posting the self-assessment on the system's public website. Finally, in order for self-assessments to reflect correctly the system's current rules, procedures, and operations,

person may need to consider other relevant documentation such as the system's rules, operating procedures, or organizational documents. These materials may be publicly available or may need to be requested from the system directly.

²⁰ While the Board expects self-assessments to be robust, it does not expect payment and settlement systems to disclose publicly sensitive information that would expose system vulnerabilities or otherwise put the system at risk (e.g., specific business continuity plans).

²¹ The Core Principles include implementation guidelines and an implementation summary for each principle. The guidelines provide both detailed explanations of each principle and general examples of ways to interpret and implement them.

²² In November 2002, CPSS-IOSCO published an Assessment Methodology for the Recommendations for SSS, which is available at <http://www.bis.org/publ/cpss51.htm>. In November 2004, CPSS-IOSCO published the CCP Recommendations and an Assessment Methodology, which are available at <http://www.bis.org/publ/cpss64.htm>. These assessment methodologies for the CPSS-IOSCO Recommendations include key questions to assist an assessor in determining to what extent a system meets a particular minimum standard.

the Board expects a systemically important system to update the relevant parts of its self-assessment following material changes to the system or its environment. At a minimum, a systemically important system would be expected to review its self-assessment every two years to ensure continued accuracy.

As part of its ongoing oversight of systemically important payment and settlement systems, the Federal Reserve will review published self-assessments by systems subject to the Board's authority to ensure the Board's policy objectives and expectations are being met.²³ Where necessary, the Federal Reserve will provide feedback to these systems regarding the content of their self-assessments and their effectiveness in achieving the policy objectives discussed above.²⁴ The Board acknowledges that payment and settlement systems vary in terms of the scope of instruments they settle and markets they serve. It also recognizes that systems may operate under different legal and regulatory constraints and within particular market infrastructures or institutional frameworks. The Board will consider these factors when reviewing self-assessments and in evaluating how a systemically important system addresses a particular principle or minimum standard and complies with the policy generally. Where the Board does not have exclusive authority over a systemically important system, it will encourage appropriate domestic or foreign financial system authorities to promote self-assessments by systemically important systems as a means to achieve greater safety and efficiency in the financial system.

II. FEDERAL RESERVE INTRADAY CREDIT POLICIES

This part outlines the methods used to provide intraday credit to ensure the smooth functioning of payment and settlement systems, while controlling credit risk to the Reserve Banks associated with such intraday credit. These methods include voluntary collateralization of intraday credit, a limit on total daylight overdrafts in institutions' Federal Reserve accounts, and a fee for uncollateralized daylight overdrafts. This part also provides a fee waiver to limit the impact of collateralization on depository institutions that use relatively small amounts of intraday credit.

To assist institutions in implementing this part of the policy, the Federal Reserve has prepared two documents: the Overview of the Federal Reserve's Payment System Risk Policy on Intraday Credit (Overview) and the Guide to the Federal Reserve's Payment System Risk Policy on Intraday Credit (Guide).²⁵ The Overview summarizes the Board's policy on the provision of intraday credit, including net debit caps, daylight overdraft fees, and the fee waiver. This document is intended for use by institutions that incur only small amounts of daylight overdrafts. The Guide explains in detail how these policies apply to different institutions and includes procedures for completing a self-assessment and filing a cap resolution, as well as information on other aspects of the policy.

²³ Any review of an assessment by the Federal Reserve should not be viewed as an approval or guarantee of the accuracy of a system's self-assessment. Furthermore, the contents of a review of a self-assessment would be subject to the Board's rules regarding disclosure of confidential supervisory information. Therefore, without the express approval of the Board, a system would not be allowed to state publicly that its self-assessment has been reviewed, endorsed, approved, or otherwise not objected to by the Federal Reserve.

²⁴ If the Federal Reserve materially disagrees with the content of a system's self-assessment, it will communicate its concerns to the system's senior management and possibly to its board of directors, as appropriate. The Federal Reserve may also discuss its concerns with other relevant financial system authorities, as appropriate.

²⁵ Available at http://www.federalreserve.gov/paymentsystems/psr_relpolicies.htm.

A. Daylight overdraft definition and measurement

A daylight overdraft occurs when an institution's Federal Reserve account is in a negative position during the business day. The Reserve Banks use an ex post system to measure daylight overdrafts in institutions' Federal Reserve accounts. Under this ex post measurement system, certain transactions, including Fedwire funds transfers, book-entry securities transfers, and net settlement transactions, are posted as they are processed during the business day. Other transactions, including ACH and check transactions, are posted to institutions' accounts according to a defined schedule. The following table presents the schedule used by the Federal Reserve for posting transactions to institutions' accounts for purposes of measuring daylight overdrafts.

*Procedures for measuring daylight overdrafts*²⁶

Opening balance (previous day's closing balance)

Post throughout business day:

- +/- Fedwire funds transfers²⁷
- +/- Fedwire book-entry securities transfers
- +/- National Settlement Service entries.
- + Fedwire book-entry interest and redemption payments on securities that are not obligations of, or fully guaranteed as to principal and interest by, the United States²⁸
- + Electronic payments for matured coupons and definitive securities that are not obligations of, or fully guaranteed as to principal and interest by, the United

²⁶ This schedule of posting rules does not affect the overdraft restrictions and overdraft-measurement provisions for nonbank banks established by the Competitive Equality Banking Act of 1987 and the Board's Regulation Y (12 CFR § 225.52).

²⁷ Funds transfers that the Reserve Banks function for certain international organizations using internal systems other than payment processing systems such as Fedwire will be posted throughout the business day for purposes of measuring daylight overdrafts.

²⁸ The GSEs include Federal National Mortgage Association (Fannie Mae), the Federal Home Loan Mortgage Corporation (Freddie Mac), entities of the Federal Home Loan Bank System (FHLBS), the Farm Credit System, the Federal Agricultural Mortgage Corporation (Farmer Mac), the Student Loan Marketing Association (Sallie Mae), the Financing Corporation, and the Resolution Funding Corporation. The international organizations include the World Bank, the Inter-American Development Bank, the Asian Development Bank, and the African Development Bank. The Student Loan Marketing Association Reorganization Act of 1996 requires Sallie Mae to be completely privatized by 2008; however, Sallie Mae completed privatization at the end of 2004. The Reserve Banks no longer act as fiscal agents for new issues of Sallie Mae securities, and Sallie Mae is not considered a GSE.

The term "interest and redemption payments" refers to payments of principal, interest, and redemption on securities maintained on the Fedwire Securities Service.

The Reserve Banks will post these transactions, as directed by the issuer, provided that the issuer's Federal Reserve account contains funds equal to or in excess of the amount of the interest and redemption payments to be made. In the normal course, if a Reserve Bank does not receive funding from an issuer for the issuer's interest and redemption payments by the established cut-off hour of 4:00 p.m. Eastern time on the Fedwire Securities Service, the issuer's payments will not be processed on that day.

States.²⁹

Post at 8:30 a.m. Eastern time:

- +/- Term deposit maturities and accrued interest
- +/- Government and commercial ACH credit transactions³⁰
- + Treasury Electronic Federal Tax Payment System (EFTPS) investments from ACH credit transactions
- + Advance-notice Treasury investments
- + Treasury checks, postal money orders, local Federal Reserve Bank checks, and EZ-Clear savings bond redemptions in separately sorted deposits; these items must be deposited by 12:01 a.m. local time or the local deposit deadline, whichever is later
- Penalty assessments for tax payments from the Treasury Investment Program (TIP).³¹

Post at 8:30 a.m. Eastern time and hourly, on the half-hour, thereafter:

- +/- Main account administrative investment or withdrawal from TIP
- +/- Special Direct Investment (SDI) administrative investment or withdrawal from TIP
- + 31 CFR Part 202 account deposits from TIP
- Uninvested paper tax (PATAX) deposits from TIP
- Main account balance limit withdrawals from TIP
- Collateral deficiency withdrawals from TIP
- 31 CFR Part 202 deficiency withdrawals from TIP.

Post at 8:30 a.m., 1:00 p.m., and 6:30 p.m. Eastern time:

- Main account Treasury withdrawals from TIP.³²

²⁹ Electronic payments for credits on these securities will post according to the posting rules for the mechanism through which they are processed, as outlined in this policy. However, the majority of these payments are made by check and will be posted according to the established check posting rules as set forth in this policy.

³⁰ Institutions that are monitored in real time must fund the total amount of their commercial ACH credit originations in order for the transactions to be processed. If the Federal Reserve receives commercial ACH credit transactions from institutions monitored in real time after the scheduled close of the Fedwire Funds Service, these transactions will be processed at 12:30 a.m. the next business day, or by the ACH deposit deadline, whichever is earlier. The Account Balance Monitoring System provides intraday account information to the Reserve Banks and institutions and is used primarily to give authorized Reserve Bank personnel a mechanism to control and monitor account activity for selected institutions. For more information on ACH transaction processing, refer to the ACH Settlement Day Finality Guide available through the Federal Reserve Financial Services website at <http://www.frb services.org>.

³¹ The Reserve Banks will identify and notify institutions with Treasury-authorized penalties on Thursdays. In the event that Thursday is a holiday, the Reserve Banks will identify and notify institutions with Treasury-authorized penalties on the following business day. Penalties will then be posted on the business day following notification.

³² On rare occasions, the Treasury may announce withdrawals in advance that are based on institutions' closing balances on the withdrawal date. The Federal Reserve will post these withdrawals after the close of Fedwire.

Post by 9:15 a.m. Eastern time:

- + U.S. Treasury and government agency Fedwire book-entry interest and redemption payments³³
- + Electronic payments for U.S. Treasury and government agency matured coupons and definitive securities.³⁴

Post Beginning at 9:15 a.m. Eastern time:

- Original issues of Treasury securities.³⁵

Post at 9:30 a.m. Eastern time and hourly, on the half-hour, thereafter:

- + Federal Reserve Electronic Tax Application (FR-ETA) value Fedwire investments from TIP.

Post at 11:00 a.m. Eastern time:

- +/- ACH debit transactions
- + EFTPS investments from ACH debit transactions.

Post at 11:00 a.m. Eastern time and hourly thereafter:

- +/- Commercial check transactions, including returned checks³⁶
- +/- Check corrections amounting to \$1 million or more³⁷
- + Currency and coin deposits
- + Credit adjustments amounting to \$1 million or more.³⁸

³³ For purposes of this policy, government agencies are those entities (other than the U.S. Treasury) for which the Reserve Banks act as fiscal agents and whose securities are obligations of, or fully guaranteed as to principal and interest by, the United States.

³⁴ Electronic payments for credits on these securities will post by 9:15 a.m. Eastern time; however, the majority of these payments are made by check and will be posted according to the established check posting rules as set forth in this policy.

³⁵ Original issues of government agency, government-sponsored enterprise, or international organization securities are delivered as book-entry securities transfers and will be posted when the securities are delivered to the purchasing institutions.

³⁶ This does not include electronic check presentments, which are posted at 1:00 p.m. local time and hourly thereafter. Paper check presentments are posted on the hour at least one hour after presentment. Paper checks presented before 10:01 a.m. Eastern time will be posted at 11:00 a.m. Eastern time. Presentment times will be based on surveys of endpoints' scheduled courier deliveries and so will occur at the same time each day for a particular institution.

Institutions must choose one of two check-credit posting options: (1) all credits posted at a single, float-weighted posting time, or (2) fractional credits posted throughout the day. The first option allows an institution to receive all of its check credits at a single time for each type of cash letter. This time may not necessarily fall on the clock hour. The second option lets the institution receive a portion of its available check credits on the clock hours between 11:00 a.m. and 6:00 p.m. Eastern time. The option selected applies to all check deposits posted to an institution's account. Reserve Banks will calculate crediting fractions and float-weighted posting times for each time zone based on surveys. Credits for mixed cash letters and other Fed cash letters are posted using the crediting fractions or the float-weighted posting times for the time zone of the Reserve Bank servicing the depositing institution. For separately sorted deposits, credits are posted using the posting times for the time zone of the Reserve Bank servicing the payor institution.

³⁷ Corrections are account entries made to correct discrepancies detected by a Reserve Bank during the initial processing of checks.

Post at 12:30 p.m. Eastern time and hourly, on the half-hour, thereafter:

- + Dynamic investments from TIP.

Post by 1:00 p.m. Eastern time:

- + Same-day Treasury investments.

Post at 1:00 p.m. Local time and hourly thereafter:

- Electronic check presentments.³⁹

Post at 5:00 p.m. Eastern time:

- +/- FedACH SameDay Service transactions
- + Treasury checks, postal money orders, and EZ-Clear savings bond redemptions in separately sorted deposits; these items must be deposited by 4:00 p.m. Eastern time
- + Local Federal Reserve Bank checks; these items must be presented before 3:00 p.m. Eastern time
- +/- Immediate settlement ACH transactions; these transactions include ACH return items and check-truncation items.

Post at 5:30 p.m. Eastern time:

- +/- FedACH SameDay Service return transactions.

Post at 6:30 p.m. Eastern time:⁴⁰

- + Penalty Abatements from TIP.

Post after the close of Fedwire Funds Service:

- +/- All other transactions. These transactions include the following: local Federal Reserve Bank checks presented after 3:00 p.m. Eastern time but before 3:00 p.m. local time; noncash collection; currency and coin shipments; small-dollar credit adjustments; term deposit settlements; and all debit adjustments. Discount-window loans and repayments are normally posted after the close of Fedwire as well; however, in unusual circumstances a discount window loan may be posted earlier in the day with repayment 24 hours later, or a loan may be repaid before it would otherwise become due.

Equals:

³⁸ Adjustments are account entries made to correct discrepancies detected by an institution after entries have posted to its account and are made at the request of the institution.

³⁹ The Federal Reserve Banks will post debits to institutions' accounts for electronic check presentments made before 12:00 p.m. local time at 1:00 p.m. local time. The Reserve Banks will post presentments made after 12:00 p.m. local time on the next clock hour that is at least one hour after presentment takes place but no later than 3:00 p.m. local time.

⁴⁰ The Federal Reserve Banks will process and post Treasury-authorized penalty abatements on Thursdays. In the event that Thursday is a holiday, the Federal Reserve Banks will process and post Treasury-authorized penalty abatements on the following business day.

Closing Balance.

B. Collateral

To help meet institutions' demand for intraday balances while mitigating Reserve Bank credit risk, the Board sets forth this policy whereby the Reserve Banks supply intraday balances and credit predominantly through explicitly collateralized daylight overdrafts to healthy depository institutions.⁴¹ This policy offers pricing incentives to encourage greater collateralization (see section II.C.). To avoid disrupting the operation of the payment system and increasing the cost burden on a large number of institutions using small amounts of daylight overdrafts, the use of collateral is generally voluntary.⁴²

Collateral eligibility and margins remain the same for PSR policy purposes as for the discount window.⁴³ Unencumbered collateral can be used to collateralize daylight overdrafts.⁴⁴ In-transit securities are eligible collateral to pledge for PSR purposes at Reserve Banks' discretion.⁴⁵ All collateral must be acceptable to the Reserve Banks.

C. Pricing

Under the voluntary collateralization regime, the fee for collateralized overdrafts is zero, while the fee for uncollateralized overdrafts is 50 basis points. The two-tiered fee for collateralized and uncollateralized overdrafts is intended to provide a strong incentive for a depository institution to pledge collateral to its Reserve Bank to reduce or eliminate the institution's uncollateralized daylight overdrafts and associated charges for its use of intraday credit.

Reserve Banks charge institutions for daylight overdrafts incurred in their Federal Reserve accounts. For each two-week reserve-maintenance period, the Reserve Banks calculate and assess daylight overdraft fees, which are equal to the sum of any daily uncollateralized daylight overdraft charges during the period.

Daylight overdraft fees for uncollateralized overdrafts (or the uncollateralized portion of a partially collateralized overdraft) are calculated using an annual rate of 50 basis points, quoted on the basis of a 24-hour day and a 360-day year. To obtain the effective annual rate for the standard Fedwire operating day, the 50-basis-point annual rate is multiplied by the fraction of a 24-hour day during which Fedwire is scheduled to operate. For example, under a 21.5-hour scheduled Fedwire operating day, the effective annual rate used to calculate daylight overdraft fees equals 44.79 basis points (50 basis points multiplied by 21.5/24).⁴⁶

⁴¹ Collateral is also used to manage risk posed by daylight overdrafts of problem institutions (institutions in a weak or deteriorating financial condition), entities not eligible for Federal Reserve intraday credit (see section II.F.), and institutions that have obtained maximum daylight overdraft capacity (see section II.E.).

⁴² The Reserve Banks may require collateral in certain circumstances, such as when institutions breach their net debit caps.

⁴³ See <http://www.frbdiscountwindow.org/> for information on the discount window and PSR collateral acceptance policy and collateral margins.

⁴⁴ Under some circumstances, rules for determining whether collateral is available may differ for PSR and discount window purposes.

⁴⁵ In-transit securities are book-entry securities transferred over the Fedwire Securities Service that have been purchased by a depository institution but not yet paid for or owned by the institution's customers.

⁴⁶ A change in the length of the scheduled Fedwire operating day should not significantly change the amount of fees charged because the effective daily rate is applied to average daylight overdrafts, whose calculation would also reflect the change in the operating day.

The effective daily rate is calculated by dividing the effective annual rate by 360.⁴⁷ An institution's daily daylight overdraft charge is equal to the effective daily rate multiplied by the institution's average daily uncollateralized daylight overdraft.

An institution's average daily uncollateralized daylight overdraft is calculated by dividing the sum of its negative uncollateralized Federal Reserve account balances at the end of each minute of the scheduled Fedwire operating day by the total number of minutes in the scheduled Fedwire operating day. A negative uncollateralized Federal Reserve account balance is calculated by subtracting the unencumbered, net lendable value of collateral pledged from the total negative Federal Reserve account balance at the end of each minute. Each positive end-of-minute balance in an institution's Federal Reserve account is set to equal zero. Fully collateralized end-of-minute negative balances are similarly set to zero.

The daylight overdraft charge is reduced by a fee waiver of \$150, which is primarily intended to minimize the burden of the PSR policy on institutions that use small amounts of intraday credit. The waiver is subtracted from gross fees in a two-week reserve-maintenance period.⁴⁸

Certain institutions are subject to a penalty fee and modified daylight overdraft fee calculation as described in section II.F. The fee waiver is not available to these institutions.⁴⁹

D. Net debit caps

1. Definition

In accord with sound risk-management practices, to limit the amount of intraday credit that a Reserve Bank extends to an individual institution and the associated risk, each institution incurring daylight overdrafts in its Federal Reserve account must adopt a net debit cap, that is, a ceiling on the total daylight overdraft position that it can incur during any given day. An institution must be financially healthy and have regular access to the discount window in order to adopt a net debit cap greater than zero. Granting a net debit cap, or any extension of intraday credit, to an institution is at the discretion of the Reserve Bank.

An institution's cap category and capital measure determine the size of its net debit cap. More specifically, the net debit cap is calculated as an institution's cap multiple times its capital measure:

$$\text{net debit cap} = \text{cap multiple} \times \text{capital measure}$$

Cap categories (see section II.D.2.) and their associated cap levels, set as multiples of capital measure, are listed below:

⁴⁷ Under the current 21.5-hour Fedwire operating day, the effective daily daylight-overdraft rate is truncated to 0.0000124.

⁴⁸ The waiver shall not result in refunds or credits to an institution and cannot be carried to another reserve maintenance period.

⁴⁹ The fee waiver is not available to Edge and agreement corporations, bankers' banks that have not waived their exemption from reserve requirements, limited-purpose trust companies, and government-sponsored enterprises and international organizations. These types of institutions do not have regular access to the discount window and, therefore, are expected not to incur daylight overdrafts in their Federal Reserve accounts.

Net Debit Cap Multiples

<u>Cap category</u>	<u>Cap multiple</u>
High	2.25
Above average	1.875
Average	1.125
De minimis	0.4
Exempt-from-filing ⁵⁰	\$10 million or 0.20
Zero	0

The cap is applied to the total of collateralized and uncollateralized daylight overdrafts.⁵¹ For the treatment of overdrafts that exceed the cap, see section II.G.

The Board's policy on net debit caps is based on a specific set of guidelines and some degree of examiner oversight. Under the Board's policy, a Reserve Bank may further limit or prohibit an institution's use of Federal Reserve intraday credit if (1) the institution's supervisor determines that the institution is unsafe or unsound; (2) the institution does not qualify for a positive net debit cap (see section II.D.2.); or (3) the Reserve Bank determines that the institution poses excessive risk.

While capital measures differ, the net debit cap provisions of this policy apply similarly to foreign banking organizations (FBOs) as to U.S. institutions. Consistent with practices for U.S.-chartered depository institutions, the Reserve Banks will advise home-country supervisors of the daylight overdraft capacity of U.S. branches and agencies of FBOs under their jurisdiction, as well as of other pertinent information related to the FBOs' caps. The Reserve Banks will also provide information on the daylight overdrafts in the Federal Reserve accounts of FBOs' U.S. branches and agencies in response to requests from home-country supervisors.

2. *Cap categories*

The policy defines the following six cap categories, described in more detail below: high, above average, average, de minimis, exempt-from-filing, and zero. The high, above average, and average cap categories are referred to as "self-assessed" caps.

a. Self-assessed. In order to establish a net debit cap category of high, above average, or average, an institution must perform a self-assessment of its own creditworthiness, intraday funds management and control, customer credit policies and controls, and operating controls and contingency procedures.⁵² The assessment of creditworthiness is based on the

⁵⁰ The net debit cap for the exempt-from-filing category is equal to the lesser of \$10 million or 0.20 multiplied by the capital measure.

⁵¹ Collateral will not increase the net debit cap limit. Institutions seeking capacity that exceeds the net debit cap need to apply for the maximum daylight overdraft capacity (see section II. E).

⁵² This assessment should be done on an individual-institution basis, treating as separate entities each commercial bank, each Edge corporation (and its branches), each thrift institution, and so on. An exception is made in the case of U.S. branches and agencies of FBOs. Because these entities have no existence separate from the FBO, all the U.S. offices of FBOs (excluding U.S.-chartered bank subsidiaries and U.S.-chartered Edge subsidiaries) should be treated as a consolidated family relying on the FBO's capital.

institution's supervisory rating and Prompt Corrective Action (PCA) designation.⁵³ An institution may perform a full assessment of its creditworthiness in certain limited circumstances, for example, if its condition has changed significantly since its last examination or if it possesses additional substantive information regarding its financial condition. An institution performing a self-assessment must also evaluate its intraday funds-management procedures and its procedures for evaluating the financial condition of and establishing intraday credit limits for its customers. Finally, the institution must evaluate its operating controls and contingency procedures to determine if they are sufficient to prevent losses due to fraud or system failures. The Guide includes a detailed explanation of the self-assessment process.

Each institution's board of directors must review that institution's self-assessment and recommended cap category. The process of self-assessment, with the board of directors review, should be conducted at least once in each twelve-month period. A cap determination may be reviewed and approved by the board of directors of a holding company parent of an institution, provided that (1) the self-assessment is performed by each entity incurring daylight overdrafts, (2) the entity's cap is based on the measure of the entity's own capital, and (3) each entity maintains for its primary supervisor's review its own file with supporting documents for its self-assessment and a record of the parent's board of directors review.⁵⁴

In applying these guidelines, each institution should maintain a file for examiner review that includes (1) worksheets and supporting analysis used in its self-assessment of its own cap category, (2) copies of senior-management reports to the board of directors of the institution or its parent (as appropriate) regarding that self-assessment, and (3) copies of the minutes of the discussion at the appropriate board of directors meeting concerning the institution's adoption of a cap category.⁵⁵

As part of its normal examination, the institution's examiners may review the contents of the self-assessment file.⁵⁶ The objective of this review is to ensure that the institution has applied the guidelines appropriately and diligently, that the underlying analysis and method were reasonable, and that the resultant self-assessment was generally

⁵³ An insured depository institution is (1) "well capitalized" if it significantly exceeds the required minimum level for each relevant capital measure, (2) "adequately capitalized" if it meets the required minimum level for each relevant capital measure, (3) "undercapitalized" if it fails to meet the required minimum level for any relevant capital measure, (4) "significantly undercapitalized" if it is significantly below the required minimum level for any relevant capital measure, or (5) "critically undercapitalized" if it fails to meet any leverage limit (the ratio of tangible equity to total assets) specified by the appropriate federal banking agency, in consultation with the FDIC, or any other relevant capital measure established by the agency to determine when an institution is critically undercapitalized (12 U.S.C. 1831o).

⁵⁴ An FBO should undergo the same self-assessment process as a U.S.-chartered institution in determining a net debit cap for its U.S. branches and agencies. Many FBOs, however, do not have the same management structure as U.S. institutions, and adjustments should be made as appropriate. If an FBO's board of directors has a more limited role to play in the bank's management than a U.S. board has, the self-assessment and cap category should be reviewed by senior management at the FBO's head office that exercises authority over the FBO equivalent to the authority exercised by a board of directors over a U.S. institution. In cases in which the board of directors exercises authority equivalent to that of a U.S. board, cap determination should be made by the board of directors.

⁵⁵ In addition, for FBOs, the file that is made available for examiner review by the U.S. offices of an FBO should contain the report on the self-assessment that the management of U.S. operations made to the FBO's senior management and a record of the appropriate senior management's response or the minutes of the meeting of the FBO's board of directors or other appropriate management group, at which the self-assessment was discussed.

⁵⁶ Between examinations, examiners or Reserve Bank staff may contact an institution about its cap if there is other relevant information, such as statistical or supervisory reports, that suggests there may have been a change in the institution's financial condition.

consistent with the examination findings. Examiner comments, if any, should be forwarded to the board of directors of the institution. If an examiner has concerns, the Reserve Bank would decide whether to modify the cap category. For example, if the institution's level of daylight overdrafts constitutes an unsafe or unsound banking practice, the Reserve Bank would likely assign the institution a zero net debit cap and impose additional risk controls.

The contents of the self-assessment file will be considered confidential by the institution's examiner. Similarly, the Federal Reserve and the institution's examiner will hold the actual cap level selected by the institution confidential. Net debit cap information should not be shared with outside parties or mentioned in any public documents; however, net debit cap information will be shared with the home-country supervisor of U.S. branches and agencies of foreign banks.

The Reserve Banks will review the status of any institution with a self-assessed net debit cap that exceeds its net debit cap during a two-week reserve-maintenance period and will decide if additional action should be taken (see section II.G.).

b. De minimis. Many institutions incur relatively small overdrafts and thus pose little risk to the Federal Reserve. To ease the burden on these small overdrafters of engaging in the self-assessment process and to ease the burden on the Federal Reserve of administering caps, the Board allows institutions that meet reasonable safety and soundness standards to incur de minimis amounts of daylight overdrafts without performing a self-assessment. An institution may incur daylight overdrafts of up to 40 percent of its capital measure if the institution submits a board of directors resolution.

An institution with a de minimis cap must submit to its Reserve Bank at least once in each 12-month period a copy of its board of directors resolution (or a resolution by its holding company's board) approving the institution's use of intraday credit up to the de minimis level. The Reserve Banks will review the status of any institution with a de minimis net debit cap that exceeds its net debit cap during a two-week reserve-maintenance period and will decide if additional action should be taken (see section II.G.).

c. Exempt-from-filing. Institutions that only rarely incur daylight overdrafts in their Federal Reserve accounts that exceed the lesser of \$10 million or 20 percent of their capital measure are excused from performing self-assessments and filing board of directors resolutions with their Reserve Banks. This dual test of dollar amount and percent of capital measure is designed to limit the filing exemption to institutions that create only low-dollar risks to the Reserve Banks and that incur small overdrafts relative to their capital measure.

The Reserve Banks will review the status of an exempt institution that incurs overdrafts in its Federal Reserve account in excess of \$10 million or 20 percent of its capital measure on more than two days in any two consecutive two-week reserve-maintenance periods. The Reserve Bank will decide whether the exemption should be maintained, the institution should be required to file for a cap, or counseling should be performed (see section II.G.). The Reserve Bank will assign the exempt-from-filing net debit cap.

d. Zero. Some financially healthy institutions that could obtain positive net debit caps choose to have zero caps. Often these institutions have very conservative internal policies regarding the use of Federal Reserve intraday credit. If an institution that has adopted a zero cap incurs a daylight overdraft, the Reserve Bank counsels the institution and may monitor the institution's activity in real time and reject or delay certain transactions that would cause an overdraft. If the institution qualifies for a positive cap, the Reserve Bank may suggest that

the institution adopt an exempt-from-filing cap or file for a higher cap if the institution believes that it will continue to incur daylight overdrafts.

In addition, a Reserve Bank may assign an institution a zero net debit cap. Institutions that may pose special risks to the Reserve Banks, such as those without regular access to the discount window, those incurring daylight overdrafts in violation of this policy, or those in weak financial condition, are generally assigned a zero cap (see section II.F.). Recently chartered institutions may also be assigned a zero net debit cap.

3. *Capital measure*

As described above, an institution's cap category and capital measure determine the size of its net debit cap. The capital measure used in calculating an institution's net debit cap depends upon its chartering authority and home-country supervisor.

a. U.S.-chartered institutions. For institutions chartered in the United States, net debit caps are multiples of "qualifying" or similar capital measures that consist of those capital instruments that can be used to satisfy risk-based capital standards, as set forth in the capital adequacy guidelines of the federal financial regulatory agencies. All of the federal financial regulatory agencies collect, as part of their required reports, data on the amount of capital that can be used for risk-based purposes – "risk-based" capital for commercial banks, savings banks, and savings associations and total regulatory reserves for credit unions. Other U.S.-chartered entities that incur daylight overdrafts in their Federal Reserve accounts should provide similar data to their Reserve Banks.

b. U.S. branches and agencies of foreign banks. For U.S. branches and agencies of foreign banks, net debit caps on daylight overdrafts in Federal Reserve accounts are calculated by applying the cap multiples for each cap category to the FBO's U.S. capital equivalency measure.⁵⁷ U.S. capital equivalency is equal to the following

- 35 percent of capital for FBOs that are financial holding companies (FHCs)⁵⁸
- 25 percent of capital for FBOs that are not FHCs and have a strength of support assessment ranking (SOSA) of 1⁵⁹
- 10 percent of capital for FBOs that are not FHCs and are ranked a SOSA 2
- 5 percent of "net due to related depository institutions" for FBOs that are not FHCs and are ranked a SOSA 3

⁵⁷ The term "U.S. capital equivalency" is used in this context to refer to the particular capital measure used to calculate net debit caps and does not necessarily represent an appropriate capital measure for supervisory or other purposes.

⁵⁸ The Gramm-Leach-Bliley Act defines a financial holding company as a bank holding company that meets certain eligibility requirements. In order for a bank holding company to become a financial holding company and be eligible to engage in the new activities authorized under the Gramm-Leach-Bliley Act, the Act requires that all depository institutions controlled by the bank holding company be well capitalized and well managed (12 U.S.C. 1841(p)). With regard to a foreign bank that operates a branch or agency or owns or controls a commercial lending company in the United States, the Act requires the Board to apply comparable capital and management standards that give due regard to the principle of national treatment and equality of competitive opportunity (12 U.S.C. 1843(l)).

⁵⁹ The SOSA ranking is composed of four factors, including the FBO's financial condition and prospects, the system of supervision in the FBO's home country, the record of the home country's government in support of the banking system or other sources of support for the FBO; and transfer risk concerns. Transfer risk relates to the FBO's ability to access and transmit U.S. dollars, which is an essential factor in determining whether an FBO can support its U.S. operations. The SOSA ranking is based on a scale of 1 through 3, with 1 representing the lowest level of supervisory concern.

An FBO that is a FHC or has a SOSA rating of 1 may be eligible for a streamlined procedure (see section II.E.) for obtaining additional collateralized intraday credit under the maximum daylight overdraft capacity provision.

In the event a Reserve Bank grants a net debit cap or extends intraday credit to a financially healthy SOSA 3-ranked FBO, the Reserve Bank may require such credit to be fully collateralized, given the heightened supervisory concerns with SOSA 3-ranked FBOs.

E. Maximum daylight overdraft capacity

The Board recognizes that while net debit caps provide sufficient liquidity to most institutions, some institutions may still experience liquidity pressures. The Board believes it is important to provide an environment in which payment systems may function effectively and efficiently and to remove barriers, as appropriate, to foster risk-reducing payment system initiatives. Consequently, certain institutions with self-assessed net debit caps may pledge collateral to their administrative Reserve Banks to secure daylight overdraft capacity in excess of their net debit caps, subject to Reserve Bank approval.⁶⁰ This policy is intended to provide extra liquidity through the pledge of collateral to the few institutions that might otherwise be constrained from participating in risk-reducing payment system initiatives.⁶¹ The Board believes that providing extra liquidity to these few institutions should help reduce liquidity-related market disruptions.

1. General procedure

An institution with a self-assessed net debit cap that wishes to expand its daylight overdraft capacity by pledging collateral should consult with its administrative Reserve Bank. The Reserve Bank will work with an institution that requests additional daylight overdraft capacity to determine the appropriate maximum daylight overdraft capacity level. In considering the institution's request, the Reserve Bank will evaluate the institution's rationale for requesting additional daylight overdraft capacity as well as its financial and supervisory information. The financial and supervisory information considered may include, but is not limited to, capital and liquidity ratios, the composition of balance sheet assets, CAMELS or other supervisory ratings and assessments, and SOSA rankings (for U.S. branches and agencies of foreign banks). An institution approved for a maximum daylight overdraft capacity level must submit at least once in each twelve-month period a board of directors resolution indicating its board's approval of that level.

If the Reserve Bank approves an institution's request, the Reserve Bank approves a maximum daylight overdraft capacity level. The maximum daylight overdraft capacity is defined as follows:

⁶⁰ The administrative Reserve Bank is responsible for the administration of Federal Reserve credit, reserves, and risk-management policies for a given institution or other legal entity.

All collateral must be acceptable to the Reserve Banks. The Reserve Banks may accept securities in transit on the Fedwire Securities Service as collateral to support the maximum daylight overdraft capacity level. Collateral eligibility and margins are the same for PSR policy purposes as for the discount window. See <http://www.frbdiscountwindow.org/> for information.

⁶¹ Institutions may consider applying for a maximum daylight overdraft capacity level for daylight overdrafts resulting from Fedwire funds transfers, Fedwire book-entry securities transfers, National Settlement Service entries, and ACH credit originations. Institutions incurring daylight overdrafts as a result of other payment activity may be eligible for administrative counseling flexibility (59 FR 54915-18, Nov. 2, 1994).

$$\begin{aligned} \text{maximum daylight overdraft capacity} = \\ \text{net debit cap} + \\ \text{collateralized capacity}^{62} \end{aligned}$$

The Reserve Banks will review the status of any institution that exceeds its maximum daylight overdraft capacity limit during a two-week reserve-maintenance period and will decide if the maximum daylight overdraft capacity should be maintained or if additional action should be taken (see section II.G.).

Institutions with exempt-from-filing and de minimis net debit caps may not obtain additional daylight overdraft capacity by pledging additional collateral without first obtaining a self-assessed net debit cap. Likewise, institutions that have voluntarily adopted zero net debit caps may not obtain additional daylight overdraft capacity without first obtaining a self-assessed net debit cap. Institutions that have been assigned a zero net debit cap by their administrative Reserve Bank are not eligible to apply for any daylight overdraft capacity.

2. Streamlined procedure for certain FBOs

An FBO that is a FHC or has a SOSA rating of 1 and has a self-assessed net debit cap may request from its Reserve Bank a streamlined procedure to obtain a maximum daylight overdraft capacity. These FBOs are not required to provide documentation of the business need or obtain the board of directors' resolution for collateralized capacity in an amount that exceeds its current net debit cap (which is based on up to 35 percent worldwide capital times its cap multiple), as long as the requested total capacity is 100 percent or less of worldwide capital times a self-assessed cap multiple.⁶³ In order to ensure that intraday liquidity risk is managed appropriately and that the FBO will be able to repay daylight overdrafts, eligible FBOs under the streamlined procedure will be subject to initial and periodic reviews of liquidity plans that are analogous to the liquidity reviews undergone by U.S. institutions.⁶⁴ If an eligible FBO requests capacity in excess of 100 percent of worldwide capital times the self-assessed cap multiple, it would be subject to the general procedure.

F. Special situations

Under the Board's policy, certain institutions warrant special treatment primarily because of their charter types. As mentioned previously, an institution must have regular access to the discount window and be in sound financial condition in order to adopt a net debit cap greater than zero. Institutions that do not have regular access to the discount window include Edge and agreement corporations, bankers' banks that are not subject to reserve requirements, limited-purpose trust companies, government-sponsored enterprises (GSEs), and certain international organizations. Institutions that have been assigned a zero cap by their Reserve Banks are also subject to special considerations under this policy based on the risks they pose. In developing its policy for these institutions, the Board has sought to balance the goal of reducing and managing risk in the payment system, including risk to the

⁶² Collateralized capacity, on any given day, equals the amount of collateral pledged to the Reserve Bank, not to exceed the difference between the institution's maximum daylight overdraft capacity level and its net debit cap.

⁶³ For example, a financial holding company is eligible for uncollateralized capacity of 35 percent of worldwide capital times the cap multiple. The streamlined max cap procedure would provide such an institution with additional collateralized capacity of 65 percent of worldwide capital times the cap multiple.

⁶⁴ The liquidity reviews will be conducted by the administrative Reserve Bank, in consultation with each FBO's home country supervisor.

Federal Reserve, with that of minimizing the adverse effects on the payment operations of these institutions.

Regular access to the Federal Reserve discount window generally is available to institutions that are subject to reserve requirements. If an institution that is not subject to reserve requirements and thus does not have regular discount-window access were to incur a daylight overdraft, the Federal Reserve might end up extending overnight credit to that institution if the daylight overdraft were not covered by the end of the business day. Such a credit extension would be contrary to the quid pro quo of reserves for regular discount-window access as reflected in the Federal Reserve Act and in Board regulations. Thus, institutions that do not have regular access to the discount window should not incur daylight overdrafts in their Federal Reserve accounts.

Certain institutions are subject to a daylight-overdraft penalty fee levied against the average daily daylight overdraft incurred by the institution. These include Edge and agreement corporations, bankers' banks that are not subject to reserve requirements, and limited-purpose trust companies. The annual rate used to determine the daylight-overdraft penalty fee is equal to the annual rate applicable to the daylight overdrafts of other institutions (50 basis points) plus 100 basis points multiplied by the fraction of a 24-hour day during which Fedwire is scheduled to operate (currently 21.5/24). The daily daylight-overdraft penalty rate is calculated by dividing the annual penalty rate by 360.⁶⁵ The daylight-overdraft penalty rate applies to the institution's daily average daylight overdraft in its Federal Reserve account. The daylight-overdraft penalty rate is charged in lieu of, not in addition to, the rate used to calculate daylight overdraft fees for institutions described in this section.

Institutions that are subject to the daylight-overdraft penalty fee are not eligible for the \$150 fee waiver and are subject to a minimum fee of \$25 on any daylight overdrafts incurred in their Federal Reserve accounts. While such institutions may be required to post collateral, they are not eligible for the zero fee associated with collateralized daylight overdrafts.

1. Edge and agreement corporations⁶⁶

Edge and agreement corporations should refrain from incurring daylight overdrafts in their Federal Reserve accounts. In the event that any daylight overdrafts occur, the Edge or agreement corporation must post collateral to cover the overdrafts. In addition to posting collateral, the Edge or agreement corporation would be subject to the daylight-overdraft penalty rate levied against the average daily daylight overdrafts incurred by the institution, as described above.

This policy reflects the Board's concerns that these institutions lack regular access to the discount window and that the parent company may be unable or unwilling to cover its subsidiary's overdraft on a timely basis. The Board notes that the parent of an Edge or agreement corporation could fund its subsidiary during the day over Fedwire or the parent could substitute itself for its subsidiary on private systems. Such an approach by the parent could both reduce systemic risk exposure and permit the Edge or agreement corporation to continue to service its customers. Edge and agreement corporation subsidiaries of FBOs are

⁶⁵ Under the current 21.5-hour Fedwire operating day, the effective daily daylight-overdraft penalty rate is truncated to 0.0000373.

⁶⁶ These institutions are organized under section 25A of the Federal Reserve Act (12 U.S.C. 611–631) or have an agreement or undertaking with the Board under section 25 of the Federal Reserve Act (12 U.S.C. 601–604(a)).

treated in the same manner as their domestically owned counterparts.

2. *Bankers' banks*⁶⁷

Bankers' banks are exempt from reserve requirements and do not have regular access to the discount window. Bankers' banks should refrain from incurring daylight overdrafts and must post collateral to cover any overdrafts they do incur. In addition to posting collateral, a bankers' bank would be subject to the daylight-overdraft penalty fee levied against the average daily daylight overdrafts incurred by the institution, as described above.

The Board's policy for bankers' banks reflects the Reserve Banks' need to protect themselves from potential losses resulting from daylight overdrafts incurred by bankers' banks. The policy also considers the fact that some bankers' banks do not incur the costs of maintaining reserves as some other institutions and do not have regular access to the discount window.

Bankers' banks may voluntarily waive their exemption from reserve requirements, thus gaining access to the discount window. Such bankers' banks are free to establish net debit caps and would be subject to the same policy as other institutions that are eligible to incur daylight overdrafts. The policy set out in this section applies only to those bankers' banks that have not waived their exemption from reserve requirements.

3. *Limited-purpose trust companies*⁶⁸

The Federal Reserve Act permits the Board to grant Federal Reserve membership to limited-purpose trust companies subject to conditions the Board may prescribe pursuant to the Act. As a general matter, member limited-purpose trust companies do not accept reservable deposits and do not have regular discount-window access. Limited-purpose trust companies should refrain from incurring daylight overdrafts and must post collateral to cover any overdrafts they do incur. In addition to posting collateral, limited-purpose trust companies would be subject to the same daylight-overdraft penalty rate as other institutions that do not have regular access to the discount window.

4. *Government-sponsored enterprises and international organizations*⁶⁹

⁶⁷ For the purposes of this policy, a bankers' bank is a depository institution that is not required to maintain reserves under the Board's Regulation D (12 CFR 204) because it is organized solely to do business with other financial institutions, is owned primarily by the financial institutions with which it does business, and does not do business with the general public. Such bankers' banks also generally are not eligible for Federal Reserve Bank credit under the Board's Regulation A (12 CFR § 201.2(c)(2)).

⁶⁸ For the purposes of this policy, a limited-purpose trust company is a trust company that is a member of the Federal Reserve System but that does not meet the definition of "depository institution" in section 19(b)(1)(A) of the Federal Reserve Act (12 U.S.C. 461(b)(1)(A)).

⁶⁹ The GSEs include Federal National Mortgage Association (Fannie Mae), the Federal Home Loan Mortgage Corporation (Freddie Mac), entities of the Federal Home Loan Bank System (FHLBS), the Farm Credit System, the Federal Agricultural Mortgage Corporation (Farmer Mac), the Student Loan Marketing Association (Sallie Mae), the Financing Corporation, and the Resolution Funding Corporation. The international organizations include the World Bank, the Inter-American Development Bank, the Asian Development Bank, and the African Development Bank. The Student Loan Marketing Association Reorganization Act of 1996 requires Sallie Mae to be completely privatized by 2008; however, Sallie Mae completed privatization at the end of 2004. The Reserve Banks no longer act as fiscal agents for new issues of Sallie Mae securities, and Sallie Mae is not considered a GSE.

The Reserve Banks act as fiscal agents for certain GSEs and international organizations in accordance with federal statutes. These institutions, however, are not subject to reserve requirements and do not have regular access to the discount window. GSEs and international organizations should refrain from incurring daylight overdrafts and must post collateral to cover any daylight overdrafts they do incur. In addition to posting collateral, these institutions would be subject to the same daylight-overdraft penalty rate as other institutions that do not have regular access to the discount window.

5. *Problem institutions*

For institutions that are in weak financial condition, the Reserve Banks will impose a zero cap. The Reserve Bank will also monitor the institution's activity in real time and reject or delay certain transactions that would create an overdraft. Problem institutions should refrain from incurring daylight overdrafts and must post collateral to cover any daylight overdrafts they do incur.

G. Monitoring

1. *Ex post*

For institutions that are in weak financial condition, the Reserve Banks will impose a zero cap. The Reserve Bank will also monitor the institution's activity in real time and reject or delay certain transactions that would create an overdraft. Problem institutions should refrain from incurring daylight overdrafts and must post collateral to cover any daylight overdrafts they do incur.⁷⁰ If the overdraft is fully collateralized, the Reserve Bank may choose not to contact the institution for up to two incidents per two consecutive two-week reserve-maintenance periods (the total of four weeks).

Each Reserve Bank retains the right to protect its risk exposure from individual institutions by unilaterally reducing net debit caps, imposing (additional) collateralization or clearing-balance requirements, rejecting or delaying certain transactions as described below, or, in extreme cases, taking the institution offline or prohibiting it from using Fedwire.

2. *Real time*

A Reserve Bank will apply real-time monitoring to an individual institution's position when the Reserve Bank believes that it faces excessive risk exposure, for example, from problem banks or institutions with chronic overdrafts in excess of what the Reserve Bank determines is prudent. In such a case, the Reserve Bank will control its risk exposure by monitoring the institution's position in real-time, rejecting or delaying certain transactions that would exceed the institution's maximum daylight overdraft capacity or net debit cap, and taking other prudential actions, including requiring (additional) collateral.⁷¹

⁷⁰ For monitoring exempt institutions, overdrafts above the exempt cap limit, regardless of whether such overdrafts are collateralized or uncollateralized, should occur no more than twice in two consecutive two-week reserve-maintenance periods (the total of four weeks).

⁷¹ Institutions that are monitored in real time must fund the total amount of their ACH credit originations through the Reserve Banks in order for the transactions to be processed by the Federal Reserve, even if those transactions are processed one or two days before settlement.

3. *Multi-District institutions*

Institutions, such as those maintaining merger-transition accounts and U.S. branches and agencies of a foreign bank, that access Fedwire through accounts in more than one Federal Reserve District are expected to manage their accounts so that the total daylight overdraft position across all accounts does not exceed their net debit caps. One Reserve Bank will act as the administrative Reserve Bank and will have overall risk-management responsibilities for institutions maintaining accounts in more than one Federal Reserve District. For domestic institutions that have branches in multiple Federal Reserve Districts, the administrative Reserve Bank generally will be the Reserve Bank where the head office of the bank is located.

In the case of families of U.S. branches and agencies of the same FBO, the administrative Reserve Bank generally is the Reserve Bank that exercises the Federal Reserve's oversight responsibilities under the International Banking Act.⁷² The administrative Reserve Bank, in consultation with the management of the foreign bank's U.S. operations and with Reserve Banks in whose territory other U.S. agencies or branches of the same foreign bank are located, may determine that these agencies and branches will not be permitted to incur overdrafts in Federal Reserve accounts. Alternatively, the administrative Reserve Bank, after similar consultation, may allocate all or part of the foreign family's net debit cap to the Federal Reserve accounts of agencies or branches that are located outside of the administrative Reserve Bank's District; in this case, the Reserve Bank in whose Districts those agencies or branches are located will be responsible for administering all or part of this policy.⁷³

H. Transfer-size limit on book-entry securities

Secondary-market book-entry securities transfers on Fedwire are limited to a transfer size of \$50 million par value. This limit is intended to encourage partial deliveries of large trades in order to reduce position building by dealers, a major cause of book-entry securities overdrafts before the introduction of the transfer-size limit and daylight overdraft fees. This limitation does not apply to either of the following:

- a. Original issue deliveries of book-entry securities from a Reserve Bank to an institution
- b. Transactions sent to or by a Reserve Bank in its capacity as fiscal agent of the United States, government agencies, or international organizations.

Thus, requests to strip or reconstitute Treasury securities or to convert bearer or registered securities to or from book-entry form are exempt from this limitation. Also exempt are pledges of securities to a Reserve Bank as principal (for example, discount-window collateral) or as agent (for example, Treasury Tax and Loan collateral).

⁷² 12 U.S.C. 3101–3108.

⁷³ As in the case of Edge and agreement corporations and their branches, with the approval of the designated administrative Reserve Bank, a second Reserve Bank may assume the responsibility of managing and monitoring the net debit cap of particular foreign branch and agency families. This would often be the case when the payments activity and national administrative office of the foreign branch and agency family is located in one District, while the oversight responsibility under the International Banking Act is in another District. If a second Reserve Bank assumes management responsibility, monitoring data will be forwarded to the designated administrator for use in the supervisory process.